brother

User's Guide

Brother Laser Printer

HL-L8250CDN HL-L8350CDW



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 <u>http://solutions.brother.com/</u> 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 A ARL/ASA/NZ/SAF/GLF

User's Guides and where do I find them?

Which Guide?	What's in it?	Where is it?
Product Safety Guide	Read this Guide first. Read the Safety Instructions before you set up your machine. See this Guide for trademarks and legal limitations.	Printed / In the box
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.	Printed / In the box
User's Guide	Learn the print operations and how to replace supplies and perform routine maintenance. See troubleshooting tips.	PDF file / CD-ROM / In the box
Network User's Guide	This Guide provides useful information about wired and wireless network settings and security settings using the Brother machine. You can also find supported protocol information for your machine and detailed troubleshooting tips.	HTML file / CD-ROM / In the box
Google Cloud Print Guide	This Guide provides information about how to configure your Brother machine to a Google account and use Google Cloud Print services for printing over the Internet.	PDF file / Brother Solutions Center at http://solutions.brother.com/
Mobile Print/Scan Guide for Brother iPrint&Scan	This Guide provides useful information about printing from your mobile device and scanning from your Brother machine to your mobile device when connected on a Wi-Fi network.	PDF file / Brother Solutions Center at <u>http://solutions.brother.com/</u>

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 indicates a potentially hazardous situation which, if not avoided, could result in death or serious injuries.		
IMPORTANT	<u>IMPORTANT</u> 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 to respond to a situation that may arise or give tips about how the operation works with other features.		
	Electrical Hazard icons alert you to possible electrical shocks.		
	Fire Hazard icons alert you to the possibility of a fire.		
	Hot Surface icons warn you not to touch machine parts that are hot.		
\otimes	Prohibition icons indicate actions that must not be performed.		
Bold	Bold style identifies buttons on the machine's control panel or computer screen.		
Italics	Italicized style emphasizes an important point or refers you to a related topic.		
Courier New	Courier New font identifies the messages shown on the LCD of the machine.		

Accessing Brother Utilities (Windows[®])

Brother Utilities 👬 is an application launcher that offers convenient access to all Brother applications installed on your device.



(Windows[®] XP, Windows Vista[®], Windows[®] 7, Windows Server[®] 2003, Windows Server[®] 2008 and Windows Server[®] 2008 R2)

Click 🚳 (Start) > All Programs > Brother > 💦 Brother Utilities.

(Windows[®] 8 and Windows Server[®] 2012)

Tap or click Tap (Brother Utilities) either on the Start screen or the desktop.

(Windows[®] 8.1 and Windows Server[®] 2012 R2)

Move your mouse to the lower left corner of the Start screen and click () (if you are using a touchbased device, swipe up from the bottom of the Start screen to display the Apps screen). When the Apps screen appears, tap or click R (Brother Utilities).

Select your machine.



Choose the operation you want to use.

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Printing Methods

About this Machine

Front view and Back view



- 1 Face-down output tray support flap (support flap)
- 2 Control panel with a Liquid Crystal Display (LCD)
- 3 USB direct print interface
- 4 Front cover release button
- 5 Front cover
- 6 Paper tray
- 7 Face-down output tray
- 8 Multi-purpose tray (MP tray)
- 9 Back cover (Face-up output tray when open)
- 10 AC power connector
- 11 USB connector
- 12 10BASE-T/100BASE-TX port

NOTE

Most of the illustrations in this User's Guide show the HL-L8350CDW.

Acceptable paper and other print media

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

You can use the following types of print media: plain paper, thin paper, thick paper, thicker paper, bond paper, recycled paper, labels, envelopes or glossy paper (see *Print media* on page 204).

For best results, follow the instructions below:

- DO NOT load 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 in 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 appropriate for the machine.

Paper type and size

The machine feeds paper from the installed standard paper tray, multi-purpose tray or optional lower tray. The names for the paper trays in the printer driver and this Guide are as follows:

Тгау	Name
Paper Tray	Tray 1
Optional Lower Tray Unit	Tray 2
Multi-purpose Tray	MP Tray

Paper	Tray	Capa	acity
-------	------	------	-------

	Paper size	Paper types	No. of sheets
Paper Tray	A4, Letter, Legal, B5 (JIS),	Plain Paper, Thin Paper and	up to 250 sheets
(Tray 1)	Executive, A5,	Recycled Paper	80 gsm
	A5 (Long Edge), A6, Folio ¹		
Multi-purpose Tray	Width:	Plain Paper, Thin Paper,	up to 50 sheets
(MP Tray)	1P Tray) 76.2 to 215.9 mm Length: 127 to 355.6 mm	Thick Paper, Thicker Paper,	80 gsm
		Recycled Paper, Bond Paper, Labels, Envelopes, Env. Thin,	3 Envelopes
		Env.Thick and Glossy Paper ²	1 Glossy paper
Optional Lower Tray	A4, Letter, Legal, B5(JIS),	Plain Paper, Thin Paper and	up to 500 sheets
(Tray 2)	Executive, A5, Folio ¹	Recycled Paper	80 gsm

¹ Folio size is 215.9 mm x 330.2 mm.

² Load only one sheet of Glossy in the MP tray.

For full paper specification, see Print media on page 204.

Recommended paper specifications

The following paper specifications are appropriate for this machine:

Basis Weight	75-90 gsm	
Thickness	80-110 μm	
Roughness	Higher than 20 sec.	
Stiffness	90-150 cm ³ /100	
Grain Direction	Long Grain	
Volume Resistivity	10e ⁹ -10e ¹¹ ohm	
Surface Resistivity	10e ⁹ -10e ¹² ohm-cm	
Filler	CaCO ₃ (Neutral)	
Ash Content	Below 23 wt%	
Brightness	Higher than 80%	
Opacity	Higher than 85%	

Use plain paper that is appropriate for laser machines to make copies.

■ Use paper that is 75 to 90 gsm.

■ Use long grain paper with a neutral Ph value, and a moisture content of approx. 5%.

■ This machine can use recycled paper that meets DIN 19309 specifications.

(Before you load paper in this machine, see Important information for choosing your paper on page 208.)

Handling and using special paper

The machine is designed to work well with most types of xerographic and bond paper. However, some paper variables may have an effect on print quality or handling reliability. Always test samples of paper before purchasing to ensure desirable performance. Store paper in its original packaging and keep it sealed. Keep the paper flat and away from moisture, direct sunlight and heat.

Some important guidelines when selecting paper are:

- DO NOT use inkjet paper because it may cause a paper jam or damage your machine.
- Preprinted paper must use ink that can withstand the temperature of the machine's fusing process 200 °C.
- If you use bond paper, paper having a rough surface, or paper that is wrinkled or creased, the paper may exhibit degraded performance.

Types of paper to avoid

IMPORTANT

Some types of paper may not perform well or may cause damage to your machine.

DO NOT use paper:

- · that is highly textured
- · that is extremely smooth or shiny
- · that is curled or warped



1 A curl of 2 mm or greater may cause jams to occur.

- · that is coated or has a chemical finish
- · that is damaged, creased or folded
- · that exceeds the recommended weight specification in this guide
- · with tabs and staples
- with letterheads using low temperature dyes or thermography
- · that is multipart or carbonless
- · that is designed for inkjet printing

If you use any of the types of paper listed above, they may damage your machine. This damage is not covered under any Brother warranty or service agreement.

Envelopes

Most envelopes can be used with your machine. However, some envelopes may have feed and print-quality problems because of the way they have been made. Envelopes should have edges with straight, well-creased folds. Envelopes should lie flat and not be of baggy or flimsy construction. Use only quality envelopes from a supplier who understands that you will be using the envelopes in a laser machine.

We recommend printing a test envelope to make sure the print results are what you want.

Types of envelopes to avoid

IMPORTANT

DO NOT use envelopes:

- that are damaged, curled, wrinkled or an unusual shape
- · that are extremely shiny or textured
- with clasps, staples, snaps or tie strings
- with self-adhesive closures
- that are of a baggy construction
- · that are not sharply creased
- that are embossed (have raised writing on them)
- · that were previously printed by a laser printer
- · that are pre-printed on the inside
- that cannot be arranged neatly when stacked
- that are made of paper that weighs more than the paper weight specifications for the machine
- · with edges that are not straight or consistently square
- · with windows, holes, cut-outs or perforations
- with glue on the surface as shown in the figure below



· with double flaps as shown in the figure below



Printing Methods

- with sealing flaps that are not folded down when purchased
- with each side folded as shown in the figure below



If you use any of the types of envelopes listed above, they may damage your machine. This damage may not be covered under any Brother warranty or service agreement.

Labels

Most labels can be used with your machine. Labels should have an adhesive that is acrylic-based since this material is more stable at the high temperatures in the fuser unit. Adhesives should not come in contact with any part of the machine, because the label stock may stick to the drum unit or rollers and cause jams and print quality problems. No adhesive should be exposed between the labels. Labels should be arranged so that they cover the entire length and width of the sheet. Using labels with spaces may result in labels peeling off and causing serious jams or print problems.

All labels used in this machine must be able to withstand a temperature of 200 °C for a period of 0.1 seconds.

Types of labels to avoid

Do not use labels that are damaged, curled, wrinkled or an unusual shape.



IMPORTANT

- DO NOT feed partially used label sheets or labels with the carrier sheet exposed because your machine will be damaged.
- DO NOT reuse or insert labels that have been used previously or are missing a few labels on the sheet.
- Label sheets should not exceed the paper weight specifications described in this User's Guide. Labels exceeding this specification may not feed or print correctly and may cause damage to your machine.

Unprintable area when printing from a computer

The figures below show maximum unprintable areas. The unprintable areas may vary depending on the paper size or settings in the application you are using.



Usage	Document Size	Тор (1)	Left (2)
		Bottom (3)	Right (4)
Print	Letter	4.23 mm	4.23 mm
	A4	4.23 mm	4.23 mm
	Legal	4.23 mm	4.23 mm

Loading paper

Loading paper and print media

The machine can feed paper from the standard paper tray, multi-purpose tray or optional lower tray.

When you load paper into the paper tray, note the following:

If your application software supports paper size selection on the print menu, you can select it through the software. If your application software does not support it, you can set the paper size in the printer driver or by using the control panel buttons.

Loading paper in the standard paper tray and the optional lower tray

Load up to 250 sheets of paper in the standard paper tray (Tray 1). You can also load up to 500 sheets in the optional lower tray (Tray 2). Paper can be loaded up to the maximum paper mark ($\nabla \nabla \nabla$) which is identified on the right side of the paper tray. (For the recommended paper to use, see *Acceptable paper and other print media* on page 2.)

Printing on plain paper, thin paper, or recycled paper from Tray 1 and Tray 2

1 Pull the paper tray completely out of the machine.



2 While pressing the blue paper-guide release levers (1), slide the paper guides to fit the size of paper you are loading in the tray. Make sure that the guides are firmly in the slots.



3 Fan the stack of paper well to avoid paper jams and misfeeds.



- 4 Load paper in the tray and make sure:
 - The paper is below the maximum paper mark (▼ ▼) (1).
 - Over filling the paper tray will cause paper jams.
 - The side to be printed on is face down.
 - The paper guides touch the sides of the paper so it will feed correctly.



- 5 Put the paper tray firmly back in the machine. Make sure that it is completely inserted into the machine.
- 6 Lift up the support flap (1) to prevent paper from sliding off the face-down output tray, or remove each page as soon as it comes out of the machine.



7 Change the printer driver settings for your operating system (for details, see *Chapter 2: Driver and Software*).

Choose the option you want from each of the following drop-down lists:

Paper Size
A4
Letter
Legal
Executive
A5
JIS B5
Folio
A5 Long Edge
A6
For the acceptable paper sizes, see Paper type and size on page 2.
Media Type

- Plain Paper Thin Paper Recycled Paper
- Paper Source Tray1
 - Tray2 (if available)

For other settings, see Chapter 2: Driver and Software.

NOTE

The name of options in the drop-down lists may vary depending on your operating system and its version.

8 Send the print job to the machine.

Loading paper in the multi-purpose tray (MP tray)

You can load up to three envelopes, one sheet of glossy paper, other special print media, or up to 50 sheets of plain paper in the MP tray. Use this tray to print on thick paper, bond paper, labels, envelopes or glossy paper. (For the recommended paper to use, see *Acceptable paper and other print media* on page 2.)

Printing on plain paper, thin paper, recycled paper, bond paper, or glossy paper from the MP tray

If you experience paper jams or printing issues when using Glossy paper go to page 15 and print when the back cover is down.





2 Pull out the MP tray support (1) and unfold the flap (2).



- 3 Load paper in the MP tray, making sure:
 - The paper stays under the maximum paper tab (1).
 - The paper's leading edge (top of paper) is positioned between the \uparrow and \checkmark arrows (2).
 - The side to be printed on must be face up with the leading edge in first.
 - The paper guides touch the sides of the paper so it will feed properly.



NOTE

When you are using glossy paper, load only one sheet at a time in the MP tray to avoid a paper jam.

4 Lift up the support flap to prevent paper from sliding off the face-down output tray, or remove each page as soon as it comes out of the machine.



5 Change the printer driver settings for your operating system (for details, see *Chapter 2: Driver and Software*).

Choose the option you want from each of the following drop-down lists:

Paper Size
A4
Letter
Legal
Executive
A5
A5 Long Edge
A6
B5
JIS B5
3 x 5
Folio

Customized paper size ¹

¹ You can define your original paper size by choosing **User Defined...** in Windows[®] printer driver, **PostScript Custom Page Size** in BR-Script printer driver for Windows[®], or **Manage Custom Sizes...** in Macintosh printer drivers.

For the acceptable paper sizes, see Paper type and size on page 2.

- Media Type
 Plain Paper
 Thin Paper
 Recycled Paper
 Bond Paper
 Glossy Paper
- Paper Source MP Tray

For other settings, see Chapter 2: Driver and Software.

NOTE

The names of options in the drop-down lists may vary depending on your operating system and its version.

6 Send the print job to the machine.

Printing on thick paper, labels and envelopes from the MP tray

When the back cover (face-up output tray) is pulled down, the machine has a straight paper path from the MP tray through to the back of the machine. Use this paper feed and output method when you print on thick paper, labels, or envelopes. (For the recommended paper to use, see *Acceptable paper and other print media* on page 2 and *Envelopes* on page 5.)

Before loading, press the corners and sides of the envelopes to make them as flat as possible.



1 Open the back cover (face-up output tray).



2 (For printing envelopes only)

Pull down the two grey levers, one on the left side and one on the right side, toward you as shown in the illustration.



3 Open the MP tray and lower it gently.



4 Pull out the MP tray support (1) and unfold the flap (2).



- 5 Load paper, labels, or envelopes in the MP tray, making sure:
 - The number of envelopes in the MP tray does not exceed three.
 - The paper, labels or envelopes stay under the maximum paper tab (1).
 - The paper's leading edge (top of paper) is positioned between the \bigwedge and \checkmark arrows (2).
 - The side to be printed on is face up.



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6 Change the printer driver settings for your operating system (for details, see *Chapter 2: Driver and Software*).

Choose the option you want from each of the following drop-down lists:

Paper Size For printing thick paper or labels A4 Letter Legal Executive A5 A5 Long Edge **A6 B5** JIS B5 3 x 5 Folio Customized paper size ¹ For printing envelopes **Com-10** DL C5 Monarch Customized paper size ¹

¹ You can define your original paper size by choosing **User Defined...** in Windows[®] printer driver, **PostScript Custom Page Size** in BR-Script printer driver for Windows[®], or **Manage Custom Sizes...** in Macintosh printer drivers.

For the acceptable paper sizes, see Paper type and size on page 2.

Printing Methods

Media Type

For printing thick paper Thick Paper

Thicker Paper

For printing labels

For printing envelopes Envelopes Env. Thin Env. Thick

Paper Source MP Tray

For other settings, see Chapter 2: Driver and Software.

NOTE

- The name of options in the drop-down lists may vary depending on your operating system and its version.
- When you use Envelope #10, choose Com-10 (for Windows[®]) or Envelope #10 (for Macintosh) from the Paper Size drop-down list.
- For other envelopes that are not listed in the printer driver, such as Envelope #9 or Envelope C6, choose User Defined... (for Windows[®] printer driver), PostScript Custom Page Size (for BR-Script printer driver for Windows[®]), or Manage Custom Sizes... (for Macintosh printer driver).

7 Send the print job to the machine.

NOTE

- Remove each envelope as soon as it has been printed. Stacking the envelopes may cause them to jam or curl.
- If envelopes or thick paper get smudged during printing, set the **Media Type** to **Env. Thick** or **Thicker Paper** to increase the fixing temperature.
- If the envelopes are creased after they are printed, see Improving the print quality on page 192.
- If your thick paper curls during printing, load only one sheet at a time in the MP tray.
- Envelope joints that are sealed by the manufacturer should be secure.
- All sides of the envelope should be properly folded without wrinkles or creases.

8 (For printing envelopes only) When you have finished printing, reset the two grey levers that you pulled down in step 2 back to their original positions.

9 Close the back cover (face-up output tray).

2-sided printing

The supplied printer drivers all enable 2-sided printing. (Windows[®] Users) For more information about how to choose the settings, see the **Help** text in the printer driver.

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 setting, it is possible that there may be paper jams or poor print quality. (If the paper jams, see *Paper jams* on page 176. If you have a print quality problem, see *Improving the print quality* on page 192.)

NOTE

Make sure that the paper tray is completely inserted in the machine.

Automatic 2-sided printing

If you are using the Macintosh Printer Driver, see 2-sided Printing on page 75.

Automatic 2-sided printing using the Windows[®] printer driver

Change the printer driver settings for your operating system (for details, see *Chapter 2: Driver and Software*).

Choose the option you want from each of the following drop-down lists:

Paper Size A4

- Media Type
 Plain Paper
 Recycled Paper
 Thin Paper
 Glossy Paper (MP Tray only)
- Paper Source Tray1 MP Tray Tray2 (if available)
- 2-sided / Booklet 2-sided

2-sided Type in 2-sided Settings

There are four options for each orientation (see 2-sided / Booklet on page 38).

Binding Offset in 2-sided Settings

Specify the offset for binding (see 2-sided / Booklet on page 38).

NOTE

- Do not use bond paper.
- The name of options in the drop-down lists may vary depending on your operating system and its version.

For other settings, see Chapter 2: Driver and Software.

2) Send the print job to the machine. The machine will print on both sides of the paper automatically.

Automatic 2-sided printing using the BR-Script printer driver for Windows®

1 Change the printer driver settings for your operating system (for details, see *Chapter 2: Driver and Software*).

Choose the option you want from each of the following drop-down lists:

Paper Size

A4

- Media Type
 - Plain Paper
 - **Recycled Paper**

Thin Paper

- Glossy Paper (MP Tray only)
- Paper Source Tray1 MP Tray

Tray2 (if available)

- Print on Both Sides Flip on Short Edge Flip on Long Edge
- Page Order Front to Back Back to Front

NOTE

• Do not use bond paper.

• The name of options in the drop-down lists may vary depending on your operating system and its version.

For other settings, see Chapter 2: Driver and Software.

2 Send the print job to the machine. The machine will print on both sides of the paper automatically.

Manual 2-sided printing

The BR-Script printer driver for Windows[®] does not support manual 2-sided printing. If you are using the Macintosh Printer Driver, see *Manual 2–sided Printing* on page 75.

Manual 2-sided printing using the Windows[®] printer driver

1 Change the printer driver settings for your operating system (for details, see *Chapter 2: Driver and Software*).

Choose the option you want from each of the following drop-down lists:

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, except envelopes and labels, which have only one print side.

Paper Source

Tray1 MP Tray Tray2 (if available)

2-sided / Booklet

2-sided (Manual)

2-sided Type in 2-sided Settings

There are four options for each orientation (see 2-sided / Booklet on page 38).

Binding Offset in 2-sided Settings

Specify the offset for binding (see 2-sided / Booklet on page 38).

For other settings, see Chapter 2: Driver and Software.

2 Send the print job 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.

Printing from a USB flash drive or digital camera supporting mass storage

With the Direct Print feature, you do not need a computer for printing. You can print by just plugging your USB flash drive into the machine's USB direct interface. You can also connect and print directly from a camera set to USB mass storage mode.

You can use a USB flash drive that has the following specifications:

USB Class	USB Mass Storage Class
USB Mass Storage Sub Class	SCSI or SFF-8070i
Transfer protocol	Bulk transfer Only
Format ¹	FAT12/FAT16/FAT32
Sector size	Max. 4096 Byte
Encryption	Encrypted devices are not supported.

NTFS format is not supported.

NOTE

- Some USB flash drives may not work with the machine.
- If your camera is in PictBridge mode, you cannot print from it. See the documentation supplied with your camera to switch from PictBridge mode to mass storage mode.

Creating a PRN file for direct printing

NOTE

The screens in this section may vary depending on your application and operating system.

From the menu bar of an application, click **File**, then **Print**.

2 Choose Brother HL-XXXX Printer (1) and check the Print to file box (2). Click Print.

🖶 Print	
General	
Select Printer	1
Add Printer	
< F	-2
Status: Verifie Preferences	
Location: Comment: XXX-XXXX Find Printer	
Page Range	
All Number of copies: 1	
Selection Current Page	
Pages:	
Print Cancel Apply	

Choose the folder you want to save the file to and type the file name if prompted. If you are prompted for a file name only, you can also specify the folder you want to save the file in by typing the directory name. For example: C:\Temp\FileName.prn If a USB flash drive is connected to your computer, you can save the file directly to the USB flash drive.

Printing directly from the USB flash drive or digital camera supporting mass storage

NOTE

- Make sure your digital camera is turned on.
- Your digital camera must be switched from PictBridge mode to mass storage mode.
- Connect your USB flash drive or digital camera to the USB direct interface (1) on the front of the machine. The LCD displays the Checking Device message.





NOTE

- When the machine is in the Deep Sleep mode, the LCD does not show any information even if you connect a USB flash drive to the USB direct interface connector. Press any of the **Menu** buttons to wake up the machine.
- If your machine has been set to Secure Function Lock On, you may not be able to access Direct Print (see the Network User's Guide).

Press ▲ or ▼ (+ or -) to choose the folder name or file name you want to print. If you have selected the folder name, press OK. Press ▲ or ▼ (+ or -) to choose the file name, and then press OK.

NOTE

To print an index of the files, press ▲ or ▼ (+ or -) to choose Index Print. Press OK or Go to start printing.

3 Do one of the following:

- To change the current settings, Go to step 4.
- If you do not want to change the current settings, press Go. Go to step 6.
- Press ▲ or ▼ (+ or -) to display the setting you want to change, and then press OK. Press ▲ or ▼ (+ or -) to select the option you want, and then press OK.

NOTE

• You can choose the following settings:

Paper Size Media Type Multiple Page Orientation 2-sided Collate Tray Use Print Quality PDF Option Output Color

• Depending on the file type, some of these settings may not appear.

5 Do one of the following:

- To change another setting, repeat step 4.
- If you do not want to change other settings, press Go and go to step 6.
- 6 Press \blacktriangle or \forall (+ or -) to enter the number of copies you want.



7 Press **OK** or **Go** to start printing.

IMPORTANT

- To prevent damage to your machine, DO NOT connect any device other than a digital camera or USB flash drive to the USB direct interface.
- DO NOT remove the USB flash drive or digital camera from the USB direct interface until the machine has finished printing.

NOTE

You can change the default settings for Direct Print by using the control panel when the machine is not in the Direct Print mode. Press ▲ or ▼ (+ or -) to enter the Direct Print menu. (See Direct Print on page 102.)

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[®] and Macintosh are on the CD-ROM we have supplied (Windows[®] only) or on the Brother Solutions Center website at <u>http://solutions.brother.com/</u>. Install the drivers by following the steps in the Quick Setup Guide. The latest printer drivers can be downloaded from the Brother Solutions Center website at:

http://solutions.brother.com/

For Windows[®]

- Windows[®] printer driver (the recommended printer driver for this product)
- BR-Script printer driver (PostScript[®] 3TM language emulation) ¹

Install the driver using the Custom Install from the CD-ROM.

For Macintosh¹

1

Macintosh printer driver (the recommended printer driver for this product)

■ BR-Script printer driver (PostScript[®] 3TM language emulation)²

- ¹ To download the printer driver for Macintosh, please visit your model page at <u>http://solutions.brother.com/</u>.
- ² For the installation instruction of the driver, visit <u>http://solutions.brother.com/</u>.

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 <u>http://solutions.brother.com/</u> 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, multi-purpose tray or optional lower tray. The multi-purpose tray can feed many types of paper and envelopes (see *Paper Tray Capacity* on page 2).

From your application, choose the Print command. If 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 print job to the machine. The **Data** LED will blink and the LCD will show Printing.
- 3 When the machine finishes printing all the jobs, the **Data** LED finishes blinking.

NOTE

- Select 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 printing from your computer:

	Windows [®] printer driver	BR-Script printer driver for Windows [®]	Macintosh Printer Driver	BR-Script printer driver for Macintosh
Paper Size	✓	✓	\checkmark	✓
Orientation	✓	✓	✓	✓
Copies	√	1	\checkmark	✓
Media Type	√	1	\checkmark	✓
Print Quality	√	1	1	1
Document Type	✓			
Colour/Mono	1	1	1	1
Multiple Page	1	1	1	1
2–sided ¹ / Booklet ²	1	1	1	✓ ✓
Paper Source	1	1	1	✓
Scaling	· · ·	· ·	1	✓ ✓
Reverse Print			1	✓ ✓
Use Watermark	· · ·			
Header-Footer Print	· · ·			
Toner Save Mode		1	✓	1
Secure Print	·	· ·	1	✓ ✓
Administrator	· · ·			
User Authentication	· · ·			
Colour Calibration				
Sleep Time	· · ·	1	1	1
Improve Print Output	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · ·	✓ ✓
Skip Blank Page	· · · · · · · · · · · · · · · · · · ·	· · · ·	✓ ✓	r
Print Text in Black				
Print Archive				
Print Profile	· · · · · · · · · · · · · · · · · · ·			

¹ Manual 2-sided printing is not available with the BR-Script printer driver for Windows[®].

² Booklet is not available with the Macintosh printer driver and the BR-Script printer driver for Macintosh.

Windows®

Accessing the printer driver settings

- (For Windows[®] XP and Windows Server[®] 2003)
 - Click Start > Printers and Faxes.

(For Windows $\mathsf{Vista}^{\texttt{®}}$ and $\mathsf{Windows}\ \mathsf{Server}^{\texttt{®}}\ 2008)$

Click the (Start) button > Control Panel > Hardware and Sound > Printers.

(For Windows[®] 7 and Windows Server[®] 2008 R2)

Click the

(Start) button > Devices and Printers.

(For Windows[®] 8 and Windows Server[®] 2012)

Move your mouse to the lower right corner of your desktop. When the menu bar appears, click **Settings** > **Control Panel**. In the **Hardware and Sound (Hardware)** group, click **View devices and printers**. (For Windows Server[®] 2012 R2)

Click Control Panel on the Start screen. In the Hardware group, click View devices and printers.

- 2 Right-click the Brother HL-XXXX series icon (where XXXX is your model name) and select Printer properties (Properties), and Brother HL-XXXX series if needed. The printer properties dialog box appears.
- 3 Click the **General** tab, and then click **Preferences...** (**Printing Preferences...**). To configure the tray settings, click the **Device Settings** tab.

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 computer will vary depending on your operating system.
- To access the printer driver settings, see Accessing the printer driver settings on page 32.

Basic tab

Change the Page Layout settings by clicking the illustration on the left side of the **Basic** tab.

	🜧 Brother HL- xxxx series Printing Prefe	rences	? 💌	
	brother HL-XXXX		S Brother SolutionsCenter	
		Basic Advanced Print Profiles		
		Paper Size	A4 🔹	
		Orientation	Portrait O Landscape	
		Copies	1 Collate	
		Media Type	Plain Paper	-1
		Print Quality	Nomal (600 x 600 dpi)	
4	Paper Size : A4	Colour / Mono	🖳 Auto 👻	
	210 x 297 mm (8.3 x 11.7 in)	Document Type	Document (Standard)	
	Media Type : Plain Paper	l	Settings	
	Copies : 1 Print Quality : Normal (600 x 600 dpi)	Multiple Page	Nomal	
	Copies : 1 Print Quality : Normal (600 x 600 dpi) 2-sided / Booklet : None	Multiple Page		0
	Print Quality : Normal (600 x 600 dpi) 2-sided / Booklet : None Scaling : Off	Page Order	Nomal Right, then Down	—2
	Print Quality : Normal (600 x 600 dpi) 2-sided / Booklet : None			2
	Print Quality: Normal (600 x 600 dpi) 2-sided / Booklet : None Scaling: Off Watermark : Off	Page Order Border Line	Right, then Down	2
	Print Quality: Normal (600 x 600 dpi) 2-sided / Booklet : None Scaling: Off Watermark : Off	Page Order Border Line 2-sided / Booklet	Right, then Down v None v	2
	Print Quality: Normal (600 x 600 dpi) 2-sided / Booklet : None Scaling: Off Watermark : Off	Page Order Border Line 2-sided / Booklet Paper Source	Right, then Down v None v 2-sided Settings(X)	— 2 — 3
F	Print Quality : Normal (600 x 600 dpi) 2-sided / Booklet : None Scaling : Olf Watermark : Off Secure Print : Olf	Page Order Border Line 2-aided / Booklet Paper Source First Page	Right, then Down	
5 ——	Print Quality : Normal (600 x 600 dpi) 2-sided / Booklet : None Scaling : Off Watermark : Off Secure Print : Off Print Preview	Page Order Border Line 2-sided / Booklet Paper Source	Right, then Down	
5	Print Quality : Normal (600 x 600 dpi) 2-sided / Booklet : None Scaling : Olf Watermark : Off Secure Print : Olf	Page Order Border Line 2-aided / Booklet Paper Source First Page	Right, then Down	
5	Print Quality : Normal (600 x 600 dpi) 2-sided / Booklet : None Scaling : Off Watermark : Off Secure Print : Off Print Preview	Page Order Border Line 2-aided / Booklet Paper Source First Page	Right, then Down	

- Choose the **Paper Size**, **Orientation**, **Copies**, **Media Type**, **Print Quality**, **Colour / Mono** and **Document Type** (1).
- 2 Choose Multiple Page and 2-sided / Booklet (2).
- 3 Choose the **Paper Source** (3).
- 4 Review the displayed list of settings (4).
- 5 Click OK to confirm the settings. To return to the default settings, click Default, then OK.

NOTE

To preview your document before printing, select the Print Preview check box (5).

2

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).



Copies

Click ▲ or ▼ to enter the number of copies to 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 before the next page of the document is printed.

Collate selected



Collate cleared



Media Type

You can use the following types of media in your machine. For the best print quality, select the type of media that matches the paper you are using.

- Plain Paper
- Thin Paper
- Thick Paper
- Thicker Paper
- Bond Paper
- Envelopes
- Env. Thick
- Env. Thin
- Recycled Paper
- Label
- Glossy Paper

NOTE

- When using ordinary plain paper 60 to 105 gsm choose Plain Paper. When using heavier weight paper or rough paper choose Thick Paper or Thicker Paper. For bond paper, choose Bond Paper.
- When using envelopes, choose **Envelopes**. If the toner is not fixed to the envelope correctly when **Envelopes** is selected, choose **Env. Thick**. If the envelope is crumpled when **Envelopes** is selected, choose **Env. Thin**. For more information, see *Paper Tray Capacity* on page 2.
- When Label is selected in the printer driver, the machine will feed the paper from the MP tray, even if **MP Tray** is not selected as the paper source.

Print Quality

Choose one of the following print quality settings:

Normal (600 x 600 dpi)

600×600 dpi. Recommended for ordinary printing. Use this mode for good print quality with reasonable print speeds.

Fine (2400 dpi class)

2400 dpi class. The finest print mode. Use this mode to print precise images such as photographs. Since the print data is much larger than in Normal mode, processing time / data transfer time and print time will be longer.

NOTE

The print speed will change depending on the print quality setting you choose. Higher print quality takes longer to print, while lower print quality takes less time to print.

Colour / Mono

You can change the Colour/Mono settings in the printer driver as follows:

Auto

The machine checks the content of the document for colour. If colour is detected anywhere in the document, it will print the whole of the document using all the colours. In other words, it will mix some of the toners to help achieve every shade detected in the document, increasing the density of toner applied to the page. If no colour content is detected, it will print the document in monochrome. The default setting on your machine is **Auto**.

Colour

Whether the document contains colour or just monochrome, your machine will print the document using all the colours.

Mono

Select **Mono** if the document has only black and greyscale text and objects. If your document contains colour, this mode prints the document in 256 levels of grey using the black toner.

NOTE

- The machine's colour sensor is very sensitive and may perceive faded black text or an off-white background as colour. If you know that your document is black and white and you want to conserve colour toner, select **Mono** mode.
- If either the Cyan, Magenta or Yellow toner reaches the end of its life while printing a colour document, the print job cannot be completed. You can cancel your print job and choose to start the print job again in **Mono** mode, as long as Black toner is available.

Document Type

Use **Document Type** to select the optimal settings for printing the relevant type of data.

Document (Standard)

Use this mode for printing a combination of graphics and text.

Photo / Image

Use this mode for printing photos or images.

Document (Mixed)

Use this mode for printing combinations of graphics/text and photos/images.

NOTE

This mode takes longer to print the data.

Manual

Choosing Manual allows you to select the settings manually by clicking the Settings button.

Settings dialog box

To change the following settings, click **Settings...** in the **Basic** tab.

Colour Mode

The following options are available in colour Matching mode:

Normal

This is the default colour mode.

• Vivid

The colour of all elements are adjusted to become a brighter colour.

• Auto

The printer driver selects the **Colour Mode** type.

NOTE

Choosing this option may take longer to print the data.

• None

Import...

To adjust the print configuration of a particular image, click **Settings**. When you have finished adjusting the image parameters, such as brightness and contrast, import those settings as a print configuration file. Use the **Export...** option to create a print configuration file from the current settings.

Export...

To adjust the print configuration of a particular image, click **Settings**. When you have finished adjusting the image parameters, such as brightness and contrast, export those settings as a print configuration file. Use the **Import...** option to load a previously exported configuration file.

Improve Grey Colour

You can improve the image quality of a shaded area.

Enhance Black Printing

If a black graphic does not print correctly, choose this setting.

Improve Thin Line

You can improve the image quality of thin lines.

Improve Pattern Printing

Select this option if printed fills and patterns are different from the patterns and fills you see on your computer.

Multiple Page

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

Page Order

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

Border Line

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

Print cut-out line

When the 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.

Driver and Software

2-sided / Booklet

To print a booklet or do 2-sided printing, use this option.

None

Disable 2-sided printing.

2-sided / 2-sided (Manual)

To do 2-sided printing, use these options.

2-sided

The machine prints on both sides of the paper automatically.

• 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** or **2-sided (Manual)**, the **2-sided Settings...** button becomes available to choose. You can choose from the following options 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)

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Landscape

Long Edge (Top)

Long Edge (Bottom)

Short Edge (Right)

Short Edge (Left)



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E	

Binding Offset

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

Booklet / 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 allow you to fold at the centre of the print output without having to change the order of the page numbers.

Booklet

The machine prints on both sides of the paper automatically.

• Booklet (Manual)

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

Landscape

Top Binding

When you choose **Booklet** or **Booklet (Manual)**, the **2-sided Settings...** button becomes available to choose. You can choose 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

Left Binding

Right Binding

245

5 4 2

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<u>2</u>

Bottom Binding

Booklet Printing Method

When Divide into Sets is selected:

This option allows you to print the whole booklet in smaller individual booklet sets, and it still allows you to fold at the center of the smaller individual booklet sets without having to change the order of the page numbers. You can specify the number of sheets in each smaller booklet, from 1 to 15. This option is helpful for folding a printed booklet that has a large number of pages.

• Binding Offset

Check **Binding Offset** to specify the offset for binding in inches or millimetres.

Paper Source

You can choose **Auto Select**, **Tray1**, **Tray2**¹ or **MP Tray** and specify separate trays for printing the first page and for printing from the second page onward.

¹ Available if the optional tray is installed.

Print Preview

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 choose 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 box.

(2) Preview Area

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

NOTE

- If the **Booklet** setting was selected in the Printer driver settings, you cannot use the Print Preview option.
- If the **2-sided** setting was selected in the Printer driver settings, you cannot delete pages using the Page List Area.

2

Advanced tab



Change the tab settings by clicking the following settings:

- (1) Scaling
- (2) Reverse Print
- (3) Use Watermark
- (4) Header-Footer Print
- (5) Toner Save Mode
- (6) Secure Print
- (7) Administrator
- (8) User Authentication
- (9) Other Print Options

Scaling

Select an option to change the scale of the printed image.

Reverse Print

Select **Reverse Print** to rotate the page 180 degrees.

Driver and Software

Use Watermark

Add a logo or text to your document as a watermark. Choose one of the preset Watermarks, or use an image file that you have created. Check **Use Watermark**, and then click the **Settings...** button.

Watermark Settings

Watermark Settings		X
Confederate	Select Watermark COPFIDENTIAL COPY DRAFT Bring to Front In Outline Text	Add Settings Delete
Custom Settings First Page KNONE>	Other Pages	
CONFIDENTIAL COPY DRAFT	CONFIDENTIAL COPY DRAFT	
ОК	Cancel Default	Help

Bring To Front

Select this check box to overlay the selected characters or image onto your printed document.

In Outline Text

Select this check box if you want to print only an outline of a text watermark.

Custom Settings

Select this check box if you want to print one watermark on the first page and a different watermark on the following pages.

Edit Watermark

Click the Add button to add the watermark settings, and then choose Use Text or Use Image File in Watermark Style.

Edit Watermark		—
	Watemark Style Use Text Title	O Use Image File(B)
CONFECTION	Text T <u>e</u> xt	CONFIDENTIAL
	<u>F</u> ont <u>S</u> tyle	Arial
Position	Si <u>z</u> e Choose Colou <u>r</u>	72
Automatically Centred <u>μ</u> [-100 - 100] <u>μ</u> [-100 - 100] <u>μ</u> [-100 - 100] <u>μ</u>	File	
	S <u>c</u> aling [25 - 999 %]	Browse
(ОК	Cancel <u>H</u> elp

• Title

Type an appropriate title for the watermark.

• Text

Type your Watermark Text into the **Text** box, and then choose the **Font**, **Style**, **Size** and **Choose Colour...**.

• Image File

Type the file name and location of the Image File you want to use as the Watermark in **File**, or click **Browse** to search for the file. Bitmap, JPEG and PNG file formats are supported. The scaling of the image can be adjusted from 25 - 999%.

Position

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

Header-Footer Print

Header-Footer Print Settings			×
	Format D <u>a</u> te	Mon, 15 Apr 201	3 •
	Tì <u>m</u> e	19:49:43	•
	ID Print	None	•
	Cu <u>s</u> tom		
[Date] [Time]	Position		
Background	⊚ <u>L</u> eft	© <u>C</u> entre (€) <u>R</u> ight
 ● Transparent ○ Opague 	© <u>Т</u> ор	Bottom	
Colour	Font	Font	
ОК	Cancel	<u>D</u> efault	<u>H</u> elp

When this feature is enabled, it will print the date and time on your document from your computer's system clock and the computer login user name or the text you typed. Click **Settings** to customize.

ID Print

Select **Login User Name** to print your computer login user name. To print a different name, select **Custom** and type a name in the **Custom** text box.

Toner Save Mode

Conserve toner use with this feature. When you set **Toner Save Mode** to On, print appears lighter. The default setting is Off (unchecked).

NOTE

We do not recommend **Toner Save Mode** for printing photo or greyscale images.

2

Driver and Software

Secure Print

Secure Print Settings
Secure Print Password
Job Information
Use System Default Name Image: Ward of the system of the
User Name
Job Name
OK Cancel Help

Secure documents are documents that are password-protected when they are sent to the machine. Only the people who know the password will be able to print them. Since the documents are secured at the machine, you must enter the password using the control panel of the machine to print them.

To send a secured document:

- 1 Click Settings... from Secure Print and check Secure Print.
- 2 Enter your password and click **OK**.
- 3 To print a secured document, you must enter your password using the control panel of the machine (see *Printing Secure documents* on page 104).

To delete a secured document:

You must use the control panel of the machine to delete a secured document (see *Printing Secure documents* on page 104).

Driver and Software

Administrator

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

Administrator Settings	×
Password •••••	
Set Password Set	
Copies Lock	
Multiple Page & Scaling Lock	
Colour / Mono Lock	
Watemark Lock	
Header-Footer Print Lock	
OK Cancel Help	

Password

Type the password in this box.

NOTE

Click Set Password... to change the password.

Copies Lock

Select this check box to lock the Copies selection in the Basic tab to prevent users from printing multiple copies.

Multiple Page & Scaling Lock

Select this check box to lock the multiple page and scaling settings.

Colour / Mono Lock

Select this check box to lock the Colour/Mono settings as Mono to prevent colour printing.

Watermark Lock

Select this check box to lock the settings of the Watermark option to prevent changes being made.

Header-Footer Print Lock

Select this check box to lock the settings of the Header-Footer Print option to prevent changes being made.

User Authentication

If you are restricted from using computer to print by the Secure Function Lock feature, you can check your current print status. Click **Check Print Status** to see your computer login name information, such as the restricted features and the remaining number of pages you are allowed to print when you are using the machine on a network. The **Authentication result** dialog box appears.

To cause the **Authentication result** dialog box to open each time you print, check the **Show print status before printing** check box.

For more information about Secure Function Lock, see the Network User's Guide

Other Print Options

Other Print Options Printer Function(Z)	
Colour Calibration	Colour Calibration
Sleep Time	✓ Get Device Data Automatically
Improve Print Output	Start Colour Calibration
Skip Blank Page	
Print Text in Black Print Archive	
Print Archive	
	OK Cancel Help

You can set the following in **Printer Function**:

- Colour Calibration
- Sleep Time
- Improve Print Output
- Skip Blank Page
- Print Text in Black
- Print Archive

Colour Calibration

The output density of each colour may vary depending on the temperature and humidity of the machine's environment. This setting helps you improve colour density by letting the printer driver use the colour calibration data stored in your machine.

Use Calibration Data

If you select this check box, the printer driver will use the calibration data retrieved from the machine to set colour matching in the printer driver. This will ensure consistent print quality.

Get Device Data Automatically

If you select this check box, the printer driver will use the colour calibration data from your machine.

Start Colour Calibration

If you click this button, your machine will start the colour calibration process, and then the printer driver will use the calibration data from your machine.

Sleep Time

When the machine does not receive data for a certain period of time, it enters Sleep mode. In Sleep mode, the machine acts as though it were turned off. When you choose Printer Default, the timeout setting will be reset to the specific time set at the factory; this can be altered in the driver. Intelligent Sleep mode adjusts to the most appropriate timeout setting depending on the frequency of your machine use.

While the machine is in Sleep mode, the LCD displays *Sleep*, but the machine can still receive data. Receiving a print job will wake up the machine to start printing.

Improve Print Output

This feature allows you to improve a print quality problem.

Reduce Paper Curl

Select this setting to reduce paper curl.

If you are printing only a few pages, you do not have to choose this setting. We recommend changing the printer driver setting in **Media Type** to a thin setting.

NOTE

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

Improve Toner Fixing

Select this setting to improve the toner fixing capabilities. If this selection does not provide enough improvement, change the printer driver setting in **Media Type** to a thick setting.

NOTE

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

Skip Blank Page

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

NOTE

This option does not work with the following options:

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

Print Text in Black

Select this option to print all text in Black only.

NOTE

It may not work with certain characters.

Print Archive

A copy of your printout can be saved as a PDF file to your computer. To change the file size, move the **File Size** slider to the right or left. The resolution is set according to the file size.

NOTE

By enabling this feature, there may be a longer wait before your machine begins printing.

Print Profiles tab

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



- (1) Print profile list box
- (2) Delete Profile
- (3) Always show Print Profiles tab first
- (4) Add Profile
- (5) Current print profile view
- 1 Choose your profile from the print profile list box.
- 2 To display the Print Profiles tab at the front of the window every time you print, click Always show Print Profiles tab first.
- 3 Click **OK** to apply your chosen profile.

Add Profile

Click the **Add Profile** button to display the **Add Profile** dialog box. Add up to 20 new profiles with your preferred settings.



- 2 Choose an icon you want to use from the Icon list, then click OK.
- 3 The settings shown on the left side of the printer driver window will be saved.

Delete Profile

Click Delete Profile to display the Delete Profile dialog box. You can delete any of the profiles you have added.



1 Choose your profile from the print profile list box.



3 The selected profile will be deleted.

Device Settings tab

NOTE

To access the **Device Settings** tab, see Accessing the printer driver settings on page 32.

You can define the paper size for each paper tray and auto detect the serial number in the **Device Settings** tab as follows.



■ (1) Available Options / Installed Options

You can manually add and remove the options that are installed on the machine. Tray settings will match the installed options.

■ (2) Paper Source Setting

Click the **Auto Detect** (4) button to detect and display the machine's serial number and paper size setting for the paper trays.

■ (3) Serial No.

By clicking **Auto Detect** (4), the printer driver will probe the machine and display its serial number. If it fails to receive the information, the screen displays "------".

(4) Auto Detect

The **Auto Detect** setting finds the currently installed optional devices and displays the available options in the printer driver. When you click **Auto Detect**, options that are installed on the machine will be listed in **Available Options** (1). Manually add or remove the options by choosing an optional device you want to add or remove, and then clicking **Add** or **Remove**.

NOTE

The Auto Detect (4) setting 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.

nting Prefe # Brother HL- xxxx series Printing Prefe	rences	? 🔀
brother HL-XXXX		SolutionsCenter
	Basic Advanced Print Profiles	
	Paper Size	A4 🗸
	Orientation	Portrait C Landscape
	Copies	1 Collate
	Media Type	Plain Paper 👻
	Print Quality	Normal (600 x 600 dpi)
Paper Size : A4	Colour / Mono	🛄 Auto 🔻
210 x 297 mm (8.3 x 11.7 in)	Document Type	Document (Standard)
Media Type : Plain Paper		Settings
Copies : 1 Print Quality : Normal (600 x 600 dpi)	Multiple Page	Normal
2-sided / Booklet : None	Page Order	Right, then Down
Scaling : Off Watermark : Off	Border Line	· · · · · · · · · · · · · · · · · · ·
Secure Print : Off	2-sided / Booklet	None
		2-sided Settings(X)
	Paper Source	
	First Page	Auto Select 🗸
Print Preview	Other Pages	Same as First Page 🔹
Add Profile(J)		Default
Support	OK Cancel	Apply Help



■ (1) Brother Solutions Center

Click this button to visit the Brother Solutions Center website (<u>http://solutions.brother.com/</u>) for information about your Brother product including FAQs (Frequently Asked Questions), User's Guides, driver updates and tips for using your machine.

Driver and Software

■ (2) Original Supplies Website

Click this button to visit our website for original Brother supplies.

■ (3) Brother CreativeCenter

Click this button to visit our website for free online solutions for business and home users.

■ (4) Print Settings

Click this button to print pages that show how the internal settings of the machine have been configured.

■ (5) Check Setting...

Click this button to check the printer driver settings.

■ (6) About...

Click this button to view a list of the printer driver files and version information.

BR-Script 3 printer driver features (PostScript[®] 3[™] language emulation)

NOTE

The screens in this section are from Windows[®] 7. The screens on your computer may vary depending on your operating system.

Printing Preferences

NOTE

To access the **Printing Preferences** dialog box, click **Preferences...** in the **General** tab of the **Brother HL-XXXX BR-Script3 Properties** dialog box.

Layout tab

Change the layout by choosing the settings for **Orientation**, **Print on Both Sides** (2-sided), **Page Order** and **Pages per Sheet**.

Brother HL- xxxx BR-Script3 Printing Preferences	×
Layout Paper/Quality Secure Print	
Orientation:	
A Portrait	
Print on Both Sides:	
None 🔻	
Page Order:	
Front to Back	
Page Format	
Pages per Sheet 1	
Booklet	
Draw Borders	
Advanced.	
OK Cancel Apply He	P

Orientation

Portrait Landscape Rotated Landscape

Orientation selects the position of your document on the printed page.

• Print on Both Sides

To do 2-sided printing, choose Flip on Short Edge or Flip on Long Edge.

• Page Order

Specify the order in which the pages of your document will be printed. **Front to Back** prints the document so that page 1 is on top of the stack. **Back to Front** prints the document so that page 1 is on the bottom of the stack.

· Pages per Sheet

Click **Pages per Sheet** to reduce the image size of a page by allowing multiple pages to be printed on one sheet of paper. Select **Booklet** to print a document in the booklet style.

• Draw Borders

Select this check box to add a border.

Paper/Quality tab

Choose the Paper Source.

Brother HL- xxxx BR-Script3 Printing Preferences
Layout Paper/Quality Secure Print
Tray Selection
Paper Source: Automatically Select
Color
Black & White O Color
Advanced
OK Cancel Apply Help

• Paper Source

Automatically Select Auto Select by Printer Tray1 Tray2¹ MP Tray

Automatically Select

Select this option to pull paper from any paper source that has a paper size defined in the printer driver that matches your document.

Auto Select by Printer

Select this option to pull paper from any paper source that has a paper size defined in the machine that matches your document.

Driver and Software

Tray1

Select this option to pull paper from Tray 1.

Tray2

Select this option to pull paper from Tray 2. (Available if the optional tray is installed.)

MP Tray

Select this option to pull paper from the multi-purpose tray. The paper size in the multi-purpose tray must match the size defined in the printer driver.

¹ Available if the optional tray is installed.

Color

Select either Black & White or Color.

Secure Print tab

🖶 Printing Preferences	×
Layout Paper/Quality Secure Print	_
Secure Print Password	
Job Information	
Our System Default Name	
🔘 Use Custom Name	
User Name	
Job Name	
OK Cancel Help	

Secure documents are documents that are password protected when they are sent to the machine. Only the people who know the password will be able to print them. Since the documents are secured at the machine, you must enter the password using the control panel of the machine to print them.

To send a secured document:



2 Type your password and click **OK**.

3 To print the secured document, you must enter your password using the control panel of the machine (see *Printing Secure documents* on page 104).

To delete a secured document:

You must use the control panel of the machine to delete a secured document (see *Printing Secure documents* on page 104).

Advanced options

Access the Advanced options by clicking the Advanced... button on the Layout tab or Paper/Quality tab.



Choose the **Paper Size** and **Copy Count** (1).

Paper Size

From the drop-down list choose the size of paper you are using.

Copy Count

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

2 Set the Image Color Management, Scaling and TrueType Font settings (2).

Image Color Management

Specify how to print your colour graphics.

- If you don't want to enable Image Color Management, click ICM Disabled.
- If you want the calculations for colour matching to be performed on the host computer before it sends the document to the machine, click **ICM Handled by Host System**.
- If you want the calculations for colour matching to be performed on your machine, click ICM Handled by Printer using printer calibration.
- Scaling

Specify whether to reduce or enlarge documents, and by what percentage.

TrueType Font

Specify the TrueType font options. Click **Substitute with Device Font** (the default) to use equivalent printer fonts for printing documents that contain TrueType fonts. This will permit faster printing; however, you might lose special characters not supported by the printer font. Click **Download as Softfont** to download TrueType fonts for printing instead of using printer fonts.

3 Change settings by choosing a setting in the **Printer Features** list (3):



Print Quality

Choose one of the following print quality settings:

• Normal (600 x 600 dpi)

600 dpi class. Recommended for ordinary printing. Use this mode for good print quality with reasonable print speeds.

• Fine (2400 dpi class)

2400 dpi class. The finest print mode. Use this mode to print precise images such as photographs. Since the print data is much larger than in Normal mode, processing time, data transfer time, and print time will be longer.

Media Type

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

- Plain Paper
- Thin Paper
- Thick Paper
- Thicker Paper
- Bond Paper
- Envelopes
- Env. Thick
- Env. Thin
- Recycled Paper
- Label
- Glossy Paper

Toner Save Mode

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.

Sleep Time [Min.]

When the machine does not receive data for a certain period of time, it enters Sleep mode. In Sleep mode, the machine acts as though it were turned off. When you choose **Printer Default**, the timeout setting will be reset to the specific time set at the factory; this can be altered in the driver.

While the machine is in Sleep mode, the LCD displays *Sleep*, but the machine can still receive data. Receiving a print job will wake up the machine to start printing.

Colour / Mono

You can change the Colour/Mono settings in the printer driver as follows:

• Auto

The machine checks the content of the document for colour. If colour is detected anywhere in the document, it will print the whole of the document using all the colours. In other words, it will mix some of the toners to help achieve every shade detected in the document, increasing the density of toner applied to the page. If no colour content is detected, it will print the document in monochrome. The default setting on your machine is **Auto**.

Colour

Whether the document contains colour or just monochrome, your machine will print the document using all the colours.

Mono

Select this mode if the document has only black and greyscale text and objects. If your document contains colour, this mode prints the document in 256 levels of grey using the black toner.

NOTE

- The machine's colour sensor is very sensitive and may perceive faded black text or an off-white background as colour. If you know that your document is black and white and you want to conserve colour toner, select **Mono** mode.
- If either the Cyan, Magenta or Yellow toner reaches the end of its life while printing a colour document, the print job cannot be completed. You can cancel your print job and choose to start the print job again in **Mono** mode, as long as Black toner is available.

Colour Mode

The following options are available in Colour Matching mode:

Normal

This is the Default colour mode.

• Vivid

The colour of all elements are adjusted to become a more vivid colour.

- None
- Improve Grey Colour

You can improve the image of a shaded area.

Enhance Black Printing

If a black graphic does not print correctly, choose this setting.

Halftone Screen Lock

This lock stops other applications from modifying the Halftone settings. The default setting is On.

High Quality Image Printing

You can get high quality image printing. If you set **High Quality Image Printing** to **On**, the print speed will be slower.

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 have to choose this setting. We recommend changing the printer driver setting in **Media Type** to a thin 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. If this selection does not provide enough improvement, change the printer driver setting in **Media Type** to a thick setting.

NOTE

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

Driver and Software

Ports tab

To change the port where your machine is connected or the path to the network machine you are using, choose or add the port you want to use.

	:.				_	
Port	Description	Printer				
LPT1:	Printer Port					
LPT2:	Printer Port				=	
LPT3:	Printer Port					
COM1:	Serial Port	Brother HL-	- xxxx Bl	R-Script3		
COM2:	Serial Port					
COM3:	Serial Port					
COM4:	Serial Port				-	
	ort	Delete Port		ure Port		

Uninstalling the printer driver

Uninstall the printer driver that you have installed with the following steps.

NOTE

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

(Windows[®] XP, Windows Vista[®] and Windows[®] 7)

1 Click the **Start** button, point to **All Programs**, **Brother**, **Brother Utilities** and then click the drop-down list and select your model name (if not already selected).

2 Click Uninstall.

3 Follow the instructions on the screen.

(Windows[®] 8)

- 1 Click 💦 (Brother Utilities). Brother Utilities screen appears.
- 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.

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 errors.

🔀 Brother 🕄	Status Monitor	×
Brother HL	- xxxx series	▼
	Please Wait	
	Troubleshooting	
	Looking for replacement supplies?	
	BK C M Y	

- If you selected the Enable Status Monitor on startup check box during installation, you will find the button or the Status Monitor icon on the taskbar.
- To show the Status Monitor icon on your taskbar, click the button. The Status Monitor icon appears in the small window. Drag the show to the taskbar.



Do one of the following:

- Double-click the licon in the task tray.
- (Windows[®] XP, Windows Vista[®] and Windows[®] 7)
 - 1 Click Start > All Programs > Brother > Brother Utilities. The Brother Utilities screen appears.
 - 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 Status Monitor.
- (Windows[®] 8)



- 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 Status Monitor.

2

Troubleshooting

Click the **Troubleshooting** button to access the Brother Solutions Center at <u>http://solutions.brother.com/</u> and visit FAQs on your model page for instructions.

Looking for replacement supplies?

Click the Looking for replacement supplies? button for more information on Brother genuine supplies.

NOTE

The automatic firmware update is active when the status monitor feature is enabled.

Monitoring the machine's status

When you start up your computer, the Brother Status Monitor icon appears on the tasktray.

A green icon indicates the normal stand-by condition.
A yellow icon indicates a warning.
A red icon indicates an error has occurred.
A grey icon indicates the offline condition.

The Status Monitor can be displayed in the tasktray or on the desktop of your computer.
Macintosh

Features in the printer driver (Macintosh)

This machine supports Mac OS X 10.7.5, 10.8.x, 10.9.x.

NOTE

The screens in this section are from OS X v10.7.x. The screens on your Macintosh will vary depending on your operating system version.

Choosing page setup options

Select the Paper Size, Orientation and Scale.

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. Select the settings for Paper Size, Orientation and Scale, then click OK.

Settings:	Page Attributes	\$
Format For:	Brother HL-xxxx	\$
	Brother HL-xxxx series C	UPS
Paper Size:	A4	\$
	210 by 297 mm	
Orientation:		
Scale:	100 %	
7)	Ci	ancel OK

2 From an application such as TextEdit, click **File**, then **Print** to start printing. For more page setup options, click the **Show Details** button.

	Printer: Brother		\$	
	Copies: 1 Pages: All	🗘 🗆 Two-Sided		
	? PDF T Show D		Cancel Print	
		Printer:	Brother HL-xxxx	÷)
		Presets:	Default Settings	+
		Copies:	1 Two–Sided	
		Pages: (1
		Paper Size:	From: 1 to:	210 by 297 mm
		Orientation:		
		(TextEdit	*)
			Print header and fo Rewrap contents to	
(144 +4)	1 of 1 (> >>)		Concernap contents to	ne hade
? PDF • Hide C				Cancel Print

NOTE

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 more information about the available options, see the following descriptions:

	Printer: Brother HL-xxxx +
	Presets: Default Settings \$
	Copies: 1 🗌 Two-Sided
	Pages: 💿 All
	O From: 1 to: 1
	Paper Size: A4 ‡ 210 by 297 mm
	Orientation:
	✓ TextEdit
	Layout int header and footer
	Color Matching Paper Handling
	Paper Handling
1 of 1 • •	Cover Page
	Print Settings
? PDF - Hide Details	Secure Print
	Conditional Sector and and

Cover Page

You can choose the following cover page settings:

	Printer: Brother HL-	
	Presets: Default Sett	tings ‡
	Copies: 1 🛛 🗍	Гwo-Sided
	Pages: 💽 All	
	O From: 1	to: 1
	Paper Size: A4	\$ 210 by 297 mm
	Orientation:)
	Cover Page	*]
	Print Cover Page	
		O Before document
1 of 1 ())	Cover Page Type	standard \$
	Billing Info	:

Print Cover Page

To add a cover page to your document, use this setting.

Cover Page Type

Choose a template for the cover page.

Billing Info

To add the billing information to the cover page, type text in the **Billing Info** text box.

Layout

	Printer: Brother HL-xxxx \$
	Presets: Default Settings \$
	Copies: 1 🗌 Two-Sided
	Pages: • All From: 1 to: 1
	Paper Size: A4 210 by 297 mm
	Orientation:
	(Layout \$)-
	Pages per Sheet: 1 🗧
	Layout Direction: 🛃 🖇 🙌
[dd d] 1 of 1 (▶ ▶₩]	Border: None 🛟
	Two-Sided: Off 🗧
	Reverse page orientation Flip horizontally

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

To add a border, use this setting.

Two-Sided

See 2-sided Printing on page 75.

Reverse page orientation

Select **Reverse page orientation** to rotate the page 180 degrees.

Flip horizontally

Select Flip horizontally to print the page as a reflection flipped left-to-right.

Secure Print

	Printer: Brother HL-xxxx	\$
	Presets: Default Settings	;
	Copies: 1 🗌 Two-Sided	
	Pages: 💽 All	
	From: 1 to: 1	
		by 297 mm
	Orientation:	
	Secure Print	;]-
	Secure Print	
	User Name :	
1 of 1 () ()	xxxxxx	
	Job Name :	
	XXXXXX	
	Password :	

Secure Print:

Secure documents are documents that are password protected when they are sent to the machine. Only the people who know the password will be able to print them. Since the documents are secured at the machine, you must enter the password using the control panel of the machine to print them.

To send a secured document:



1 Select Secure Print.

2 Type your password, user name and job name, and then click **Print**.

3 To print a secured document, you must enter your password using the control panel of the machine (see Printing Secure documents on page 104).

To delete a secured document, you must use the control panel of the machine to delete it (see Printing Secure documents on page 104).

Print Settings

Choose your settings in the Print Settings list:

	Printer: Brother HL-xxxx \$	
	Presets: Default Settings \$	
	Copies: 1 🗌 Two-Sided	
	Pages: 💽 All	
	O From: 1 to: 1	
	Paper Size: A4 \$ 210 by 297 mm	n
	Orientation: 1	
	Print Settings \$	
	Print Settings +	ŧ
		\$
H4 4 1 of 1 (>>>>)	Media Type: Plain Paper	
144 - 1 of 1 - >>>>>	Media Type: Plain Paper Print Quality: Normal	ţ

Media Type

Select one of the following media types:

- Plain Paper
- Thin Paper
- Thick Paper
- Thicker Paper
- Bond Paper
- Envelopes
- Env. Thick
- Env. Thin
- Recycled Paper
- Label
- Glossy Paper

NOTE

When **Label** is selected in the printer driver, the machine will feed the paper from the MP tray, even if **MP Tray** is not selected as the paper source.

Print Quality

Choose one of the following print quality settings:

Normal

600 dpi class. Recommended for ordinary printing. Use this mode for good print quality with reasonable print speeds.

• Fine

2400 dpi class. The finest print mode. Use this mode to print precise images such as photographs. Since the print data is much larger than in Normal mode, processing time, data transfer time, and printing time will be longer.

NOTE

The print speed will change depending on the print quality setting you choose. Higher print quality takes longer to print, while lower print quality takes less time to print.

Color / Mono

You can change the Colour/Mono settings in the printer driver as follows:

• Auto

The machine checks the content of the document for colour. If colour is detected anywhere in the document, it will print the whole of the document using all the colours. In other words, it will mix some of the toners to help achieve every shade detected in the document, increasing the density of toner applied to the page. If no colour content is detected, it will print the document in monochrome. The default setting on your machine is **Auto**.

Color

Whether the document contains colour or just monochrome, your machine will print the document using all the colours.

• Mono

Select this mode if the document has only black and greyscale text and objects. If your document contains colour, this mode prints the document in 256 levels of grey using the black toner.

NOTE

- The machine's colour sensor is very sensitive and may perceive faded black text or an off-white background as colour. If you know that your document is black and white and you want to conserve colour toner, select **Mono** mode.
- If either the Cyan, Magenta or Yellow toner reaches the end of its life while printing a colour document, the print job cannot be completed. You can cancel your print job and choose to start the print job again in **Mono** mode, as long as Black toner is available.

Paper Source

Choose Auto Select, Tray1, Tray2¹ or MP Tray.

¹ Available if the optional tray is installed.

Advanced print settings

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



Toner Save Mode

Conserve toner use with this feature. When you select the **Toner Save Mode** check box, print appears lighter. The default setting is off (unchecked).

NOTE

We do not recommend Toner Save Mode for printing Photo or greyscale images.

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 have to choose this setting. We recommend changing the printer driver setting in **Media Type** to a thin 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. If this selection does not provide enough improvement, change the printer driver setting in **Media Type** to a thick setting.

NOTE

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

Sleep Time

When the machine does not receive data for a certain period of time, it enters Sleep mode. In Sleep mode, the machine acts as though it were turned off. If you choose **Printer Default**, the timeout setting will be reset to the specific time set at the factory; this can be altered in the driver. To change the Sleep Time, select **Manual**, and then type the time in the text box.

While the machine is in Sleep mode, the LCD displays *Sleep*, but the machine can still receive data. Receiving a print job will wake up the machine to start printing.

Other Print Options

Skip Blank Page

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

Color Settings

Color Mode

The following options are available in Color Matching mode:

Normal

This is the Default colour mode.

• Vivid

The colour of all elements are adjusted to become a more vivid colour.

• None

Improve Gray Color

You can improve the image of a shaded area.

Enhance Black Printing

If a black graphic does not print correctly, choose this setting.

Driver and Software

2-sided Printing

Automatic 2–sided Printing

Select Layout.

Choose Long-Edge binding or Short-Edge binding in Two-Sided.

	Printer: Brother HL-xxxx \$
	Presets: Default Settings \$
	Copies: 1 🗹 Two-Sided
	Pages: All
	Paper Size: A4
	Orientation:
	Layout +
	Pages per Sheet: 1 🗘
(144 - 4) 1 of 1 (> >>>)	Layout Direction: Z S M
[ded ed] 1 of 1 (▶ ▶▶)	Border Off
	Two-Sided ✓ Long-Edge binding Short-Edge binding
	□ Flip horizontally

Manual 2–sided Printing

Select Paper Handling.

• Choose **Even Only** and **Print**. Reload the printed paper into the tray (blank side face down in Tray 1 Tray 2, or blank side face up in the MP tray). Choose **Odd Only** and **Print**.

7. 1. 1. 1	Printer: Brother HL-xxxx +
	Presets: Default Settings ‡
	Copies: 🚺 🗹 Two-Sided
	Pages: 💽 All
	From: 1 to: 1
	Paper Size: A4 ‡ 210 by 297 mm
	Orientation:
	Paper Handling +
	All pages
	Pages to Prnt 🗸 Even Only
44 4 1 of 1 > >>	Page Order: Automatic \$
	Scale to fit paper size
	Destination Paper Size: Suggested Paper: A4 +
	Scale down only
(?) PDF • Hide Details	Cancel

Features in the BR-Script3 printer driver (PostScript[®] 3[™] language emulation)

This section introduces the distinctive operations of the BR-Script3 printer driver. For the basic operations of the BR-Script3 printer driver, see *Features in the printer driver (Macintosh)* on page 66 for **Page Setup**, **Cover Page**, **Paper Source** and **Layout**.

Choosing printing options

To control special print features, choose Printer Features in the Print dialog box.

	Printer: Brother HL-xxxx \$
	Presets: Default Settings +
	Copies: 1 🗌 Two-Sided
	Pages: • All From: 1 to: 1
	Paper Size: 44 210 by 297 mm
	Orientation:
	✓ TextEdit
	Layout in the der and footer
	Color Matching Paper Handling
1 of 1 > >>	Paper Feed
	Cover Page
	Corumo Deint
? PDF * Hide Details	Printer Features

Printer Features

Feature Sets: General 1



Print Quality

Select one of the following resolutions from the Print Quality pop-up menu:

Normal

600×600 dpi. Recommended for ordinary printing. Use this mode for good print quality with reasonable print speeds.

• Fine

2400 dpi class. The finest print mode. Use this mode to print precise images such as photographs. Since the print data is much larger than in Normal mode, processing time / data transfer time and print time will be longer.

Media Type

Select the media type that matches the type of paper you loaded in the machine.

- Plain Paper
- Thin Paper
- Thick Paper
- Thicker Paper
- Bond Paper
- Envelopes
- Env. Thick
- Env. Thin
- Recycled Paper
- Label
- Glossy Paper
- Hagaki¹

¹ Postcard with the size specified by Japan Post Service Co., LTD

Toner Save Mode

When you select the **Toner Save Mode** check box, print appears lighter. The default setting is Off (unchecked).

NOTE

We do not recommend **Toner Save Mode** for printing Photo or greyscale images.

Sleep Time [Min.]

When the machine does not receive data for a certain period of time, it enters Sleep mode. In Sleep mode, the machine acts as though it were turned off. If you choose **Printer Default**, the timeout setting will be reset to the specific time set at the factory; this can be altered in the driver. To change the Sleep Time, choose **2**, **10** or **30**.

While the machine is in Sleep mode, the LCD displays *Sleep*, but the machine can still receive data. Receiving a print job will wake up the machine to start printing.

Color / Mono

You can change the Colour/Mono settings in the printer driver as follows:

• Auto

The machine checks the content of the document for colour. If colour is detected anywhere in the document, it will print the whole of the document using all the colours. In other words, it will mix some of the toners to help achieve every shade detected in the document, increasing the density of toner applied to the page. If no colour content is detected, it will print the document in monochrome. The default setting on your machine is **Auto**.

• Color

Whether the document contains colour or just monochrome, your machine will print the document using all the colours.

• Mono

Select this mode if the document has only black and greyscale text and objects. If your document contains colour, this mode prints the document in 256 levels of grey using the black toner.

NOTE

- The machine's colour sensor is very sensitive and may perceive faded black text or an off-white background as colour. If you know that your document is black and white and you want to conserve colour toner, select **Mono** mode.
- If either the Cyan, Magenta or Yellow toner reaches the end of its life while printing a colour document, the print job cannot be completed. You can cancel your print job and choose to start the print job again in **Mono** mode, as long as Black toner is available.

Color Mode

The following options are available in Colour Matching mode:

Normal

This is the Default colour mode.

• Vivid

The colour of all elements are adjusted to become a more vivid colour.

None

Feature Sets: General 2

	Presets: Default Settings
	Copies: 1 Two-Sided
	Pages: • All
	Paper Size: A4 2 210 by 297 mm
	Orientation:
	Printer Features \$
	Feature Sets: General 2 🗧 🗧
	Improve Gray Color
He a lofi (F HH)	Enhance Black Printing
	Halftone Screen Lock
	High Quality Image Printing
	Improve Print Output: Off \$

Improve Gray Color

You can improve the image of a shaded area.

Enhance Black Printing

If a black graphic does not print correctly, choose this setting.

Halftone Screen Lock

This lock stops other applications from modifying the Halftone settings. The Default setting is **On** (checked).

High Quality Image Printing

You can increase the quality of the printed image. If you set **High Quality Image Printing** to **On** (checked), the print speed will be slower.

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 have to choose this setting. We recommend changing the printer driver setting in **Media Type** to a thin 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. If this selection does not provide enough improvement, change the printer driver setting in **Media Type** to a thick setting.

NOTE

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

Secure Print

Secure documents are documents that are password protected when they are sent to the machine. Only the people who know the password will be able to print them. Since the documents are secured at the machine, you must enter the password using the control panel of the machine to print them.

	Printer: Brother	HL-xxxx	¢.)	
	Presets: Default	Settings	+)	
	Copies: 1	Two-Sided		
	Pages: 💽 All			
	O From:	1 to	1	
	Paper Size: A4		210 by 297 mm	
	Orientation:	1.		
	Secure	Print		
	Secure Print			
	Us	ser Name: kwix		
les e tofi b bei	j	ob Name: Syste	em Name 🕴	1
		Password:	1	2
			,	
7) PDF * Hide Details			Cancel	Prin

To create a secure print job, select **Secure Print** and select the **Secure Print** check box. Type a password in the **Password** text box and click **Print**.

(For more information about Secure Print, see Printing Secure documents on page 104.)

1

Removing the printer driver

1 Log on as an 'Administrator'.

2 From the Apple menu, choose **System Preferences**. Click **Print & Scan** or **Printers & Scanners**¹, then select the printer you want to remove and remove it by clicking the - button.

3 Click **Delete Printer**.

Printers & Scanners for OS X v10.9.x users

2

Status Monitor

The **Status Monitor** utility is a configurable software tool for monitoring the status of the machine; it lets you see error messages such as paper empty or paper jam at pre-set update intervals and access the Web Based Management utility. Check the device status by launching Brother Status Monitor following these steps:

- For OS X v10.7.5 and 10.8.x
 - 1 Run System Preferences, select Print & Scan, and then choose the machine.
 - Click Options & Supplies.... Click the Utility tab, and then click Open Printer Utility. The Status Monitor will start up.
- For OS X v10.9.x
 - 1 Run System Preferences, select Printers & Scanners, and then choose the machine.
 - Click Options & Supplies.... Click the Utility tab, and then click Open Printer Utility. The Status Monitor will start up.

Updating the machine's status

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



If the toner level is low or there is a problem with the toner cartridge, the following icons appear:

•	The toner level is low.
8	The toner cartridge is empty.

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

icon.

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, click **Brother Status Monitor** and select **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 select Quit Status Monitor from the pop-up menu.

Web Based Management (Network Connection only)

Access the Web Based Management System by clicking the machine icon on the **Status Monitor** screen. A standard Web Browser can be used to manage your machine using HTTP (Hyper Text Transfer Protocol). For information about the Web Based Management System, see the Network User's Guide.

Software

Software for networks

For information about network utility software, see the Network User's Guide.

3

General Information

Control panel

This machine has one Liquid Crystal Display (LCD), eight buttons and two Light Emitting Diodes (LEDs) on the control panel. The LCD is a 16 character two-line display.

Control panel overview

The illustration is based on HL-L8350CDW.



1 LCD

The LCD displays messages to help you set up and use your machine. A four level indicator displays the wireless signal strength if you are using a wireless connection.



2 Dower On/Off

You can turn the machine on and off.

Press 🔘 to turn the machine on.

Press and hold down () to turn the machine off. The LCD displays Shutting Down and stays on for a few seconds before going off.

3 Menu Buttons:

▲ or **▼** (**+** or **-**)

Press \blacktriangle or \blacksquare (+ or -) to scroll through the menus and options.

Press \blacktriangle or \lor (+ or -) to enter a number, or to increase or decrease the number. Hold down \blacktriangle or \lor (+ or -) to move faster to the number you want, and then press **OK**.

ΟΚ

Press **OK** to store your settings in the machine. After changing a setting, the machine returns to the previous menu level.

Back

Press **Back** to go back one level in the menu structure.

Back lets you choose the previous digit while entering numbers.

4 Secure

You can print jobs saved in the memory when you enter your four-digit password. (For more information, see *Printing Secure documents* on page 104.)

5 Go

You can clear some error messages by pressing **Go**. To clear all other errors follow the control panel instructions or see *Error and maintenance messages* on page 171.

Press **Go** to print jobs remaining in the machine's memory.

This button lets you choose the displayed option in the last menu level. After a setting is changed, the machine returns to Ready mode.

6 Cancel

Press **Cancel** to cancel the current setting.

This button cancels a programmed print job and clears it from the machine's memory.

7 Error LED

The **Error** LED blinks in orange when the LCD displays an error or an important status message. (For details, see *LED indications* on page 87.)

8 Data LED

The Data LED will blink depending on the machine status. (For details, see LED indications on page 87.)

LED indications

The LEDs are lights that show the machine's status.

Data LED (Green)

LED indication	Meaning
On	Data is in the machine's memory.
Blinking	The machine is receiving or processing data.
Off	There is no remaining data in the memory.

Error LED (Orange)

LED indication	Meaning
Blinking	There is a problem with the machine.
Off	There is no problem with the machine.

Machine status messages

The following table explains the machine's status messages during normal operation:

Machine Status Message	Meaning
Cooling Down	The machine is cooling down.
Cancel Printing	The machine is canceling the job.
Calibrate	The machine is calibrating the colour density.
Ignore Data	The machine is ignoring data processed using the PS driver.
Please Wait	The machine is warming up.
	The machine is performing the calibration process.
Printing	The machine is printing.
Ready	The machine is ready to print.
Sleep	In Sleep mode (power save mode) the machine acts as though it were turned off, but the machine can still receive data. Receiving a print job will wake up the machine to start printing.
Deep Sleep	In Deep Sleep mode (reducing more power consumption than Sleep mode), the machine acts as though it were turned off. If the machine does not receive data for a certain length of time while it is in Sleep mode, it enters Deep Sleep mode. The machine will wake up when the machine receives a print job.
Registration	The machine is adjusting the print position.

Settings table

How to access the menu mode

- 1 Press any Menu buttons (▲, ▼, OK or Back) to take the machine offline.
- 2 Scroll through each menu level by pressing ▲ or ▼ (+ or -) for the direction you want.
- 3 Press **OK** when the option you want appears on the LCD. The LCD will then show the next menu level.
- 4 Press ▲ or ▼ (+ or -) to scroll to your next menu selection.

5 Press OK or Go. When you have finished setting an option, the LCD will show Accepted.

Menu table

There are seven menus. For more information about the selections available in each menu, see the following tables.

If no control panel operations are performed for 30 seconds, the LCD returns to Ready mode.

NOTE

The LCD displays the tray names as follows:

- Standard paper tray: Tray1
- Multi-purpose tray: MP Tray
- Optional lower tray: Tray2 and T2

Machine Info.

Submenu 1	Submenu 2	Menu Selections	Options	Descriptions
Print Settings	-	-	-	Prints the Printer Settings page.
Print NetSetting	-	-	-	Prints the Network Configuration Report.
Print WLANReport	-	-	-	The WLAN Report shows the wireless
(HL-L8350CDW)				LAN connectivity diagnosis.
Test Print	-	-	-	Prints the test page.
Drum Dot Print	-	-	-	Prints the drum dot check sheet.
Print Font	HP LaserJet	-	-	Prints the font list and samples of HP LaserJet.
	BR-Script 3	-	-	Prints the font list and samples of BR-Script.
Serial No.	-	-	-	Displays the machine's serial number.
Version	Main Version	-	-	Displays the main firmware version.
	Subl Version	-	-	Displays the sub firmware version.
	Sub4 Version	-	-	Displays the sub firmware version.
	RAM Size	-	-	Displays the size of memory in this machine.
Page Count	Total	-	-	Displays the total printed pages.
	Color	-	-	Displays the total colour printed pages.
	Monochrome	-	-	Displays the total monochrome printed pages.

Machine Info. (continued)

Submenu 1	Submenu 2	Menu Selections	Options	Descriptions
Parts Life	Toner Life	Black(BK)	-	Displays the remaining life for each toner
		Cyan(C)	-	cartridge.
		Magenta(M)	-	For example, if the remaining life for the
		Yellow(Y)	-	 black toner cartridge is 20%, the LCD displays the following: BK ■■□□□□□□□□□
	Drum Life	-	-	Displays the remaining life for the drum unit.
	Belt Life	-	-	Displays the remaining life for the belt unit.
	PF Kit MP Life	-	-	Displays the pages left to print with the PF kit MP.
	PF Kit 1 Life	-	-	Displays the pages left to print with the PF kit 1.
	PF Kit 2 Life	-	-	Displays the pages left to print with the PF kit 2.
	Fuser Life	-	-	Displays the pages left to print with the fuser unit.
	Laser Life	-	-	Displays the pages left to print with the laser unit.
Reset Parts Life (Appears only when	Drum Unit	-	-	Resets the drum unit life. Appears when you replace the drum unit.
the drum unit or belt unit has exceeded its rated life.)	Belt Unit	-	-	Resets the belt unit life. Appears when you replace the belt unit.
The factory setting	gs are shown in Bold v	with an asterisk.		

Paper Tray

Submenu	Options	Descriptions	
Tray Use	Auto*/MP Only/Tray1 Only/ Tray2 Only ¹	Select the tray that will be used.	
Priority	(Without Tray2 installed) MP>T1* / T1>MP (With Tray2 installed) MP>T1>T2 / MP>T2>T1 / T1>T2>MP / T2>T1>MP	When Auto is chosen in Tray Use, the machine chooses the order in which it uses the paper trays that contain paper of the same size.	
2-sided	On(Long Bind)/On(Short Bind)/ Off *	Select whether to print on both sides of the paper.	
MP Size	A4*/Letter/JIS B5/B5/A5/ A5 L/A6/Executive/Legal/ Folio/3X5/Com-10/ Monarch/C5/DL	Select the size of paper you are loading in the MP tray.	
Trayl Size	A4*/Letter/JIS B5/A5/A5 L/A6/Executive/Legal/ Folio	Choose the size of paper you loaded in the standard paper tray.	
Tray2 Size ¹	A4*/Letter/JIS B5/A5/ Executive/Legal/Folio	Choose the size of paper you loaded in the optional lower tray (Tray 2).	
Check Size	Off / On*	Select whether to display the message telling you to check that the size of the paper in the machine and the machine's Paper Size setting match.	
The factory settin	gs are shown in Bold with an asterisk.	·	

¹ When Tray 2 is installed.

General Setup

Submenu	Menu Selections	Options	Descriptions
Local Language	-	English*/Français	Select the LCD language for your country.
Ecology	Toner Save	On / Off *	Increases the page yield of the toner cartridge.
	Sleep Time	0/1/2/ 3* /4/5/Min	Set the time to return to Power Save mode.
	Quiet Mode	On / Off *	Decreases printing noise.
	Auto Power Off	<pre>Off*/1 hour/2 hours/ 4 hours/8 hours (for Middle East and Africa) Off/1 hour/2 hours/ 4 hours*/8 hours</pre>	Sets the number of hours that the machine will remain in Deep Sleep mode before going into Power Off mode. Choose Off if you do not want the machine to go into Power Off mode.
Panel Control	Button Repeat	0.1 */0.4/0.6/0.8/ 1.0/1.4/1.8/2.0 Sec	Sets the time for the LCD message to change when holding ▲ or ▼ at intervals.
	Message Scroll	Level1*/Level2// Level10	Sets the time in seconds that an LCD message will scroll across the LCD. From Level 1=0.2 sec to Level 10=2.0 sec.
	LCD Contrast	+	Adjusts the contrast of the LCD.
	Auto Online	On*/Off	Set the machine to return to Ready mode after it has been idle for 30 seconds. If you select Off, the machine cannot receive print jobs if it has been left in Menu mode.
Setting Lock	-	On / Off *	Turn the lock panel settings On or Off by using the password.
Interface	Select	Auto*/USB/Network	Choose the interface to use.
			If you select Auto, the machine changes the interface to USB or Ethernet depending on which interface is receiving data.
	Auto IF Time	1/2/3/4/ 5* //99Sec	You must set the time-out period for the auto interface selection.
	Input Buffer	Level 1/2/3/4*//7	Increases or decreases the input buffer capacity.
The factory settin	gs are shown in Bold wit	h an asterisk.	·

Print Menu

Submenu	Menu Selections	Options	Descriptions	
Emulation	-	Auto*/HP LaserJet/ BR-Script 3	Chooses the emulation mode you use.	
Auto Continue	-	On*/Off	Select this setting if you want the machine to clear paper size errors.	
Output Color	-	Auto*/Color/Mono	Sets the output colour.	
Media Type	-	Plain Paper*/Thick Paper/Thicker Paper/ Thin Paper/Recycled Paper/Bond Paper/ Label/Envelope/Env. Thick/Env. Thin/ Glossy Paper	Sets the type of paper.	
Paper	-	A4*/Letter/JIS B5/ Sets the size of paper. B5/A5/A5 L/A6/ Executive/Legal/ Folio/3X5/Com-10/ Monarch/C5/DL		
Copies	-	1 */2//999	Sets the number of printed pages.	
Orientation	-	Portrait*/Landscape	This machine can print pages in portrait or landscape orientation.	
Print Position	X Offset	-500/-499//-1/ 0* / 1//499/500Dots	Moves the print start position (at the top-left corner of pages) horizontally up to -500 (left) to +500 (right) dots in 300 dpi.	
	Y Offset	-500/-499//-1/ 0* / 1//499/500Dots	Moves the print start position (at the top-left corner of pages) vertically up to -500 (up) to +500 (down) dots in 300 dpi.	
Auto FF	-	On / Off *	Allows the machine to print any remaining data automatically.	
HP LaserJet	Font No.	I000// I059* //I071	Sets the font number.	
	Font Pitch	0.44//10.00*//	Sets the font pitch.	
		99.99	The Font Pitch menu will appear when you choose I059 to I071 in Font No. setting.	
	Font Point	4.00//12.00*//	Sets the font size.	
		999.75	The Font Point menu will appear when you choose I000 to I058 in Font No. setting.	
The factory settir	ngs are shown in Bold w	ith an asterisk.	·	

Print Menu (continued)

Submenu	Menu Selections	Options	Descriptions
HP LaserJet (Continued)	Symbol Set	PC-8*/PC-8 D/N/	Sets the symbol set or the character set.
(Table Print	-	Prints the code table. If Change Emulation appears on the LCD, select Auto or HP LaserJet in Emulation of the Print Menu (See page 93).
	Auto LF	On / Off*	ON: CR → CR+LF, OFF: CR → CR
	Auto CR	On / Off*	ON: LF \rightarrow LF+CR, FF \rightarrow FF+CR, or VT \rightarrow VT+CR OFF: LF \rightarrow LF, FF \rightarrow FF, or VT \rightarrow VT
	Auto WRAP	On / Off*	Chooses whether a line feed and carriage return will happen when the machine reaches the right margin.
	Auto SKIP	On*/Off	Chooses whether a line feed and carriage return will happen when the carriage position reaches the bottom margin.
	Left Margin	##	Sets the left margin at column 0 to 70 columns at 1 cpi. The default setting is 0 cpi.
	Right Margin	##	Sets the right margin at column 10 to 80 columns at 1 cpi. The default setting is 78 cpi (A4).
	Top Margin	#.##	Sets the top margin at a distance from the top edge of the paper: 0.00, 0.33, 0.50, 1.00, 1.50 or 2.00 inches. The default setting is 0.50 inches.
	Bottom Margin	#.##	Sets the bottom margin at a distance from the bottom edge of the paper: 0.00, 0.33, 0.50, 1.00, 1.50 or 2.00 inches. The default setting is 0.50 inches.
	Lines	###	Sets the number of lines on each page from 5 to 128 lines. The default setting is 64 lines (A4).

Print Menu (continued)

Submenu	Menu Selections	Options	Descriptions	
BR-Script 3	Error Print	On*/Off	Choose whether the machine prints the error information when errors occur.	
	CAPT	On / Off *	Use CAPT (Colour Advanced Printing Technology) for optimal print quality when printing a PS file created by a non-Brother PS driver. Colours and photos appear clearer and more accurate. Print speed will be slower.	
The factory settings are shown in Bold with an asterisk.				

1

Network for HL-L8250CDN

Submenu 1	Submenu 2	Menu Selections	Options	Descriptions	
TCP/IP	Boot Method	-	Auto*/Static/RARP/ BOOTP/DHCP	Chooses the IP method that best suits your needs.	
	IP Address	-	###.###.###.### (000.000.000.000)* ¹	Enter the IP address.	
	Subnet Mask	-	<pre>###.###.#### (000.000.000.000)*¹</pre>	Enter the Subnet mask.	
	Gateway	-	###.###.###.### (000.000.000.000)* ¹	Enter the Gateway address.	
	IP Boot Tries	-	0 / 1 / 2 / 3* / / 32767	Specifies the number of attempts the machine will try to obtain an IP address when the Boot Method is set to any setting except Static.	
	APIPA	-	On*/Off	Automatically allocates the IP address from the link-local address range. ¹	
	IPv6	-	On / Off*	Enables or disables the IPv6 protocol.	
Ethernet	-	-	Auto*/100B-FD/ 100B-HD/10B-FD/ 10B-HD	Chooses Ethernet link mode.	
Wired Status	-	-	Active 100B-FD/ Active 100B-HD/ Active 10B-FD/ Active 10B-HD/ Inactive/Wired OFF	Displays Ethernet link status.	
MAC Address	-	-	-	Displays MAC address of the machine.	
Security	IPsec	-	On / Off *	IPsec is an optional security feature of the IP protocol that provides authentication and encryption services. We recommend contacting your network administrator before changing this setting.	
Network Reset	Restores all network settings of the internal print server to the factory settings.				
The factory se	ettings are shown in B	old with an asterisk.			

^{###} means a number within the range of 000 to 255. On connection to the network, if the machine's 'Boot Method' is 'Auto' the machine will attempt to set the IP address and Subnet Mask from a boot server such as DHCP or BOOTP. If a boot server cannot be found, an APIPA IP address will be allocated, such as 169. 254. [001-254]. [000-255]. If the 'Boot Method' of the machine is set to 'Static' you must manually enter an IP address from the machine's control panel.

Network for HL-L8350CDW

Submenu 1	Submenu 2	Menu Selections	Options	Descriptions
Wired LAN (HL-L8350CDW)	TCP/IP	Boot Method	Auto*/Static/RARP/ BOOTP/DHCP	Chooses the IP method that best suits your needs.
		IP Address	###.###.###.### (000.000.000.000)* ¹	Enter the IP address.
		Subnet Mask	###.###.###.### (000.000.000.000)* ¹	Enter the Subnet mask.
		Gateway	###.###.###.### (000.000.000.000)* ¹	Enter the Gateway address.
		IP Boot Tries	0/1/2/ 3* //32767	Specifies the number of attempts the machine will try to obtain an IP address when the Boot Method is set to any setting except Static.
		АРІРА	On* /Off	Automatically allocates the IP address from the link-local address range. ¹
		IPv6	On / Off *	Enables or disables the IPv6 protocol.
	Ethernet	-	Auto*/100B-FD/ 100B-HD/10B-FD/ 10B-HD	Chooses Ethernet link mode.
	Wired Status	-	Active 100B-FD/ Active 100B-HD/ Active 10B-FD/ Active 10B-HD/ Inactive/Wired OFF	Displays Ethernet link status.
	MAC Address	-	-	Displays MAC address of the machine.
		Restores wired network settings of the internal print server to the factory settings.		
	Set to Default			

Submenu 1	Submenu 2	Menu Selections	Options	Descriptions
WLAN	TCP/IP	Boot Method	Auto*/Static/RARP/ BOOTP/DHCP	Chooses the IP method that best suits your needs.
		IP Address	###.###.###.### (000.000.000.000)* ¹	Enter the IP address.
		Subnet Mask	###.###.###.### (000.000.000.000)* ¹	Enter the Subnet mask.
		Gateway	###.###.###.### (000.000.000.000)* ¹	Enter the Gateway address.
		IP Boot Tries	0 / 1 / 2 / 3* / / 32767	Specifies the number of attempts the machine will try to obtain an IP address when the Boot Method is set to any setting except Static.
		APIPA	On*/Off	Automatically allocates the IP address from the link-local address range. ¹
		IPv6	On / Off *	Enables or Disables the IPv6 protocol.
	WLAN Assistant	-	-	You can configure your wireless network settings using the Brother CD-ROM.
	Setup Wizard	-	-	Configures the wireless network settings using the setup wizard.
	WPS/AOSS	-	-	Configures the wireless network settings using WPS or AOSS [™] method.
	WPS w/PIN Code	-	-	Configures the wireless network settings using WPS with a PIN code.

Submenu 1	Submenu 2	Menu Selections	Options	Descriptions
WLAN (Continued)	WLAN Status (Appears only when WLAN Enable is On and Wired Enable is Off.)	Status	Active(11n)/ Active(11b)/ Active(11g)/Wired LAN Active/WLAN OFF/AOSS Active/ Connection Fail	Displays wireless Ethernet link status.
		Signal	Strong/Medium/ Weak/None	Displays the signal condition.
		Channel	-	Displays the channel in use when Status is Active.
		Speed	-	Displays the connecting speed when Status is Active.
		SSID	-	Displays SSID [uses a maximum of 32 digits and characters 0-9, a-z and A-Z in ASCII values
		Comm. Mode	Ad-hoc/ Infrastructure	Displays the current Communication Mode.
	MAC Address	-	-	Displays MAC address of the machine.
	Set to Default	Restores wireless factory settings.	network settings of the inte	rnal print server to the
	WLAN Enable	-	On / Off *	Turns the wireless interface on or off.
Wi-Fi Direct	Push Button	-	-	You can easily configure your Wi-Fi Direct™ network settings using the one-button push method.
	PIN Code	-	-	You can easily configure your Wi-Fi Direct™ network settings using WPS with a PIN code.
	Manual	-	-	You can manually configure your Wi-Fi Direct™ network settings.
	Group Owner	-	On/Off	Sets your machine as the Group Owner.

Submenu 1	Submenu 2	Menu Selections	Options	Descriptions
Wi-Fi Direct (Continued)	Device Info.	Device Name	-	You can see the device name of your machine.
(Continued)		SSID	-	Displays SSID of Group Owner.
				When the machine is not connected, the LCD displays Not Connected.
		IP Address	-	Displays the IP Address of your machine.
	Status Info.	Status	G/O Active(**)/ Client Active/Not Connected/Off/ Wired LAN Active	Displays the Wi-Fi Direct™ network status.
			** = the number of devices	
		Signal	Strong/Medium/Weak/ None	Displays the Wi-Fi Direct™ network signal strength.
				When your machine acts as the Group Owner, the LCD always displays Strong.
		Channel	-	Displays the channel in use when the Status is G/O Active(**) or Client Active.
		Speed	-	Displays the connecting speed when the Status is G/O Active(**) or Client Active.
	I/F Enable	-	On / Off *	Enables or disables the Wi-Fi Direct™ connection.
Security	IPsec	-	On / Off *	IPsec is an optional security feature of the IP protocol that provides authentication and encryption services. We recommend contacting your network administrator before changing this setting.

Submenu 1	Submenu 2	Menu Selections	Options	Descriptions
Network Reset	Restores all network settings of the internal print server to the factory settings.			
The factory settings are shown in Bold with an asterisk.				

means a number within the range of 000 to 255. On connection to the network, if the machine's 'Boot Method' is 'Auto' the machine will attempt to set the IP address and Subnet Mask from a boot server such as DHCP or BOOTP. If a boot server cannot be found, an APIPA IP address will be allocated, such as 169. 254. [001-254]. [000-255]. If the 'Boot Method' of the machine is set to 'Static' you must manually enter an IP address from the machine's control panel.

Reset Menu

1

Type of Reset	Description	
Network	Restores all network settings of the internal print server to the factory settings.	
Factory Reset	Resets the machine and restores the printer settings (including command settings) to the factory settings.	
The factory settings are shown in Bold with an asterisk.		

Color Correction

Submenu	Menu Selections	Options	Descriptions
Calibration	Calibrate	▲ Yes ▼ No	Performs a calibration to check and correct the colours.
	Reset	▲ Reset ▼ Exit	Set the calibration parameters back to the default settings.
Registration	-	▲ Yes ▼ No	Aligns the print position of each colour.
Auto Correction	-	On*/Off	Sets the machine to perform Colour Calibration and Registration automatically.
The factory setting	gs are shown in Bold w	vith an asterisk.	
Direct Print

Submenu	Options	Descriptions		
Paper Size	A4*/Letter/JIS B5/B5/A5/A5 L/ A6/Executive/Legal/Folio/3X5/ Com-10/Monarch/C5/DL	Set the paper size when printing directly from the USB flash drive.		
Media Type	Plain Paper*/Thick Paper/ Thicker Paper/Thin Paper/ Recycled Paper/Bond Paper/ Label/Envelope/Env. Thick/Env. Thin/Glossy Paper	Set the print media type when printing directly from the USB flash drive.		
Multiple Page	<pre>1in1*/2in1/4in1/9in1/16in1/ 25in1/1 in 2X2 pages/1 in 3X3 pages/1 in 4X4 pages/1 in 5X5 pages</pre>	Set the page layout when printing multiple pages directly from the USB flash drive.		
Orientation	Portrait*/Landscape	Set the page orientation when printing directl from the USB flash drive.		
Collate	On*/Off	Enable or disable page collation when printing directly from the USB flash drive.		
Print Quality	Normal*/Fine	Set the print quality option when printing directly from the USB flash drive.		
PDF Option	Document*/Document&Stamps/ Document&Markup	Set the USB direct print setting to print either comments (Markup) or stamps in the PDF file along with the text.		
Index Print	<pre>Simple*/Details</pre>	Print a thumbnail page.		
The factory settings are shown in Bold with an asterisk.				

Entering Text for Wireless Settings

Hold down or repeatedly press ▲ or ▼ (+ or -) to select from the following characters:

0123456789 abcdefghijkImnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ (space) !"#\$%&'() *+,-./:;<=>?@[]^_

Press **OK** to confirm the current character, and then enter the next character. Press the **Back** key to delete the characters you have entered.

Printing Secure documents

Secure documents

Secure documents are protected by a password and only those people who know the password will be able to print the document. The machine will not print the document when you send it for printing. To print the document, you must enter the password at the control panel of the machine. Secure documents will be deleted after they are printed once.

When the area to spool documents is full, the LCD displays Print Data Full. Press **Cancel** to return to Ready mode.

To delete the spooled documents, you must delete it at the control panel.

NOTE

- · Secure documents will be deleted when the machine is turned off.
- If you wait 30 seconds to continue the control panel operation, the Secure Print setting will close and the LCD will return to Ready mode.
- For more information about the settings in the printer driver and how to create secure documents, see Secure Print on page 45 (for Windows[®] printer driver), Secure Print tab on page 57 (for Windows[®] BR-Script printer driver), Secure Print on page 70 (for Macintosh printer driver) or Secure Print on page 80 (for Macintosh BR-Script printer driver).

How to print Secure documents

Press Secure.

- Press ▲ or ▼ (+ or -) to choose the user name. Press OK.
- 3 Press \blacktriangle or \forall (+ or -) to choose the job. Press **OK**.

4 Enter the registered four-digit password. To enter each digit, press ▲ or ▼ (+ or -) to choose a number, and then press OK, (see Entering Text for Wireless Settings on page 103).

- 5 Press ▲ or ▼ (+ or -) to choose Print. Press OK.
- 6 Press ▲ or ▼ (+ or -) to enter the number of copies you want.
- 7 Press OK or Go.

NOTE

To delete the secure document from the memory, replace steps **(3** - **(7)** with the following step:

• Press ▲ or ▼ (+ or -) to select Delete. Press OK.

The LCD displays Deleted and returns to Ready mode.

Security features

Setting Lock

Setting Lock lets you set a password to stop other people from accidentally changing your machine's settings. Make a careful note of your password. If you forget it, you must reset the passwords stored in the machine. Please call your administrator, Brother customer service or your local Brother dealer.

While Setting Lock is On, you cannot change the following settings without the password:

- Paper Tray
- General Setup
- Print Menu (except Table Print)
- Network (except Status, Mac Address, Status Info. and Device Info. of Wi-Fi Direct¹)
- Reset Menu
- Auto Correction of Colour Correction
- ¹ For HL-L8350CDW

Setting up the password

- 1 Press ▲ or ▼ (+ or -) to choose General Setup. Press OK.
- 2 Press ▲ or ▼ (+ or -) to choose Setting Lock. Press OK.
- 3 Enter a four-digit number for the password. To enter each digit, press ▲ or ▼ (+ or -) to choose a number, and then press OK.
- **4** Re-enter the password when the LCD displays Verify:.

Changing your Setting Lock password

Turn Setting Lock off before you change the password (see Turning Setting Lock on/off on page 106).

- 1 Press ▲ or ▼ (+ or -) to choose General Setup. Press OK.
- 2 Press ▲ or ▼ (+ or -) to choose Setting Lock. Press OK.
- 3 Press ▲ or ▼ (+ or -) to choose Set Password. Press OK.
- 4 Enter the registered four-digit password. To enter each digit, press ▲ or ▼ (+ or -) to choose a number, and then press OK.
- 5 Enter a four-digit number for the new password. To enter each digit, press ▲ or ▼ (+ or -) to choose a number, and then press **OK**.
- 6 Re-enter the password when the LCD displays Verify:.

Turning Setting Lock on/off

If you enter the wrong password when following the instructions below, the LCD will show Wrong Password. Enter the correct password.

Turning Setting Lock on

- 1 Press ▲ or ▼ (+ or -) to choose General Setup. Press OK.
- 2 Press ▲ or ▼ (+ or -) to choose Setting Lock. Press OK.
- **3** Press **OK** when the LCD displays On.
- 4 Enter the registered four-digit password. To enter each digit, press ▲ or ▼ (+ or -) to choose a number, and then press OK.

Turning Setting Lock off

- Press ▲ or ▼ (+ or -) to choose General Setup. Press OK.
- 2 Press ▲ or ▼ (+ or -) to choose Setting Lock. Press OK.
- 3 Enter the registered four-digit password. To enter each digit, press ▲ or ▼ (+ or -) to choose a number, and then press OK.
- 4 Press OK or Go when the LCD displays Off.

Secure Function Lock 3.0

Use Secure Function Lock to configure passwords, set specific user page limits, and grant access to some or all of the operations listed here. You can configure and change the following Secure Function Lock 3.0 settings using Web Based Management or BRAdmin Professional 3 (Windows[®]):

- Print¹
- USB Direct Print
- Colour Print ¹²
- Page Limit²
- ¹ Print and Colour Print include print jobs via Google Cloud Print and Brother iPrint&Scan.
- ² Available for **Print** and **USB Direct Print**.

NOTE

- Make a careful note of your password. If you forget it, you must reset the password stored in the machine. For information about how to reset the password call Brother customer service or your local Brother dealer.
- Only administrators can set limitations and make changes for each user.

IPSec

IPsec (Internet Protocol Security) is a security protocol that uses an optional Internet Protocol function to prevent manipulation and ensure the confidentiality of data transmitted as IP packets. IPsec encrypts data carried over the network, such as print data sent from computers to a printer. Because the data is encrypted at the network layer, applications that use a higher-level protocol use IPsec even if the user is not aware of its use.

IPsec supports the following operations:

- IPsec transmissions
- IPsec settings

For more information about IPsec, see the Network User's Guide.

Ecology features

Toner Save

Save toner by using this feature. When you set Toner Save to On, print appears lighter. The default setting is Off.

1 Press ▲ or ▼ (+ or -) to choose General Setup. Press OK.

2 Press ▲ or ▼ (+ or -) to choose Ecology. Press OK.

3 Press ▲ or ▼ (+ or -) to choose Toner Save. Press OK.

4 Press ▲ or ▼ (+ or -) to choose On or Off. Press OK or Go.

NOTE

If your machine has been set to Quiet mode On, you cannot set Toner Save to On.

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.

Choose how long the machine must be idle before it goes into Sleep mode. When the machine receives a print file or document, the timer will be reset. The default setting is 3 minutes. While the machine is in Sleep mode the LCD displays Sleep.

- Press ▲ or V (+ or -) to choose General Setup. Press OK.
- 2 Press ▲ or ▼ (+ or -) to choose Ecology. Press OK.
- 3 Press ▲ or ▼ (+ or -) to choose Sleep Time. Press OK.
- Press ▲ or ▼ (+ or -) to enter the length of time the machine will remain idle before entering Sleep mode. Press OK or Go.

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 and the LCD will show Deep Sleep. Deep Sleep mode uses less power than Sleep mode. The machine will wake up, when the machine receives a print job.

Auto Power Off

If the machine is in Deep Sleep mode for a certain length of time, it will go into Power Off mode. To start

printing, press () on the control panel, and then send the print job.

You can choose how long the machine must be in Deep Sleep mode before it goes into Auto Power Off mode, by following these steps:

1 Press ▲ or ▼ (+ or -) to choose General Setup. Press OK.

- 2 Press ▲ or ▼ (+ or -) to choose Ecology. Press OK.
- 3 Press ▲ or ▼ (+ or -) to choose Auto Power Off. Press OK.
- 4 Press ▲ or ▼ (+ or -) to choose Off, 1 hour, 2 hours, 4 hours or 8 hours. Press OK or Go.

NOTE

The machine does not go into Power Off mode when the machine is connected to a wired or wireless network or has secure documents in the memory.

Quiet mode feature

The Quiet mode setting can reduce printing noise. When Quiet Mode is turned on, the print speed becomes slower. The default setting is Off.

Turning Quiet mode on/off

Press ▲ or ▼ (+ or -) to choose General Setup. Press OK.
 Press ▲ or ▼ (+ or -) to choose Ecology. Press OK.
 Press ▲ or ▼ (+ or -) to choose Quiet Mode. Press OK.
 Press ▲ or ▼ (+ or -) to choose On or Off. Press OK or Go.
 NOTE

If your machine has been set to Toner Save On, you cannot set Quiet mode to On.

Colour Correction

The output density and print position for each colour may vary depending on the machine's environment, such as temperature and humidity.

Colour Calibration

Calibration helps you improve the colour density.

NOTE

- If you are using the Windows[®] printer driver, the driver will get the calibration data automatically if both the **Use Calibration Data** and **Get Device Data Automatically** check boxes are selected. The default settings are On. See *Colour Calibration* on page 47.
- If you are using the Macintosh printer driver, you must perform the calibration using the Status Monitor. Turn on the Status Monitor, and then select **Color Calibration** from the **Control** menu. See *Status Monitor* on page 82 for how to turn on the Status Monitor.

Calibrate

- Press ▲ or V (+ or -) to choose Color Correction. Press OK.
- 2 Press ▲ or ▼ (+ or -) to choose Calibration. Press OK.
- 3 Press ▲ or ▼ (+ or -) to choose Calibrate. Press OK.
- 4 Press ▲ to choose Yes.

The machine performs the Calibration and then returns to Ready mode.

Reset

Reset the calibration parameters back to those set at the factory.

- 1 Press ▲ or ▼ (+ or -) to choose Color Correction. Press OK.
- 2 Press ▲ or ▼ (+ or -) to choose Calibration. Press OK.
- 3 Press ▲ or ▼ (+ or -) to choose Reset. Press OK.
- 4 Press ▲ to choose Reset.

The LCD displays Accepted and then returns to Ready mode.

Colour Registration

Registration helps you improve the print position for each colour.

- Press ▲ or ▼ (+ or -) to choose Color Correction. Press OK.
- 2) Press ▲ or ▼ (+ or -) to choose Registration. Press OK.
- Press ▲ to choose Yes.
 The machine performs the Registration and then returns to Ready mode.

Auto Correction

Select Auto Correction if you want the machine to perform Colour Calibration and Registration automatically. The factory setting is On. The colour correction process consumes some toner.

- Press ▲ or ▼ (+ or -) to choose Color Correction. Press OK.
- 2 Press ▲ or ▼ (+ or -) to choose Auto Correction. Press OK.
- 3 Press ▲ or ▼ (+ or -) to choose On or Off. Press OK or Go.

This machine has the following optional accessories. You can increase the capabilities of the machine with these items.

Lower tray	SO-DIMM memory
LT-320CL	
See Lower tray (LT-320CL) on page 114.	See SO-DIMM on page 115.

Lower tray (LT-320CL)

One optional lower tray (Tray 2) can be installed on HL-L8250CDN and HL-L8350CDW, and the lower tray can hold up to 500 sheets of 80 gsm paper. When the optional lower tray is installed, the machine can hold up to 800 sheets of plain 80 gsm paper. If you want to buy the optional lower tray unit, call the dealer you bought the machine from or Brother customer service.



For setup, see the User's Guide that we have supplied with the lower tray unit.

WARNING

If you use a Lower Tray, DO NOT carry the machine with the Lower Tray as you may be injured or cause damage to the machine because it is not attached to the Lower Tray.

Options

SO-DIMM

The machine has 128 MB of standard memory and one slot for optional memory expansion. You can increase the memory up to a maximum of 384 MB by installing one SO-DIMM (Small Outline Dual In-line Memory Module).



SO-DIMM types

You can install the following SO-DIMMs:

- 256 MB Kingston KTH-LJ2015/256
- 256 MB Transcend TS256MHP423A

NOTE

- For more information, visit the Kingston Technology's website at http://www.kingston.com/.
- For more information, visit the Transcend website at http://www.transcend.com.tw/.

In general, the SO-DIMM must have the following specifications:

Type: 144-pin and 16-bit output

CAS latency: 4

Clock frequency: 267 MHz (533 Mb/S/Pin) or more

Capacity: 256 MB

Height: 30.0 mm

DRAM type: DDR2 SDRAM

NOTE

- There might be some SO-DIMMs that will not work with the machine.
- For more information, call the dealer you bought the machine from or Brother customer service.

Installing extra memory

1 Turn off the machine's power switch.

2 Disconnect the interface cables from the machine, and then unplug the power cord from the AC power outlet.

NOTE

Always unplug the power cord from the AC power outlet before installing or removing the SO-DIMM.

3 Remove the plastic (1) and then the metal (2) SO-DIMM covers.



4 Unpack the SO-DIMM and hold it by its edges.

IMPORTANT

To prevent damage to the machine from static electricity, DO NOT touch the memory chips or the board's surface.

5 Hold the SO-DIMM by the edges and align the notches in the SO-DIMM with the protrusions in the slot. Insert the SO-DIMM diagonally (1), then tilt it toward the interface board until it locks into place (2).



6 Put the metal (2) and then the plastic (1) SO-DIMM covers back on.



7 Plug the machine's power cord back into the AC power outlet first, and then connect the interface cables.

8 Turn on the machine's power switch.

NOTE

To make sure that you have installed the SO-DIMM properly, you can print the Printer Settings page that shows the current memory size. (See *Machine Info.* on page 89.)

5

Routine Maintenance

Replacing supplies

You must replace supplies when the machine indicates that the life of the supply is over. You can replace the following supplies yourself.

Using non-Brother supplies is not recommended and may affect the print quality, hardware performance, and machine reliability.

NOTE

The drum unit and toner cartridge are two separate parts.



NOTE

Availability of toner cartridges differs from one country to another. Visit the Brother Solutions Center at <u>http://solutions.brother.com/</u> or contact your local Brother office for further details.

The following messages appear on the LCD in the Ready mode. These messages provide advanced warnings to replace supplies before they reach their end of life. To avoid any inconvenience, you may want to buy spare supplies before the machine stops printing.

LCD messages	Supply to get ready	Approximate life	How to replace	Model Name
Toner Low: X	Toner cartridge X = C, M, Y, BK C = Cyan M = Magenta Y = Yellow BK = Black	(Black) 2,500 pages ^{1 2 4} 4,000 pages ^{1 2 5} 6,000 pages ^{1 2 6} (Cyan, Magenta, Yellow) 1,500 pages ^{1 2 4} 3,500 pages ^{1 2 5} 6,000 pages ^{1 2 6}	See page 123	See page 209
Drum End Soon	Drum unit	25,000 pages ^{1 3}	See page 129	(For Oceania) DR-341CL (For Middle East / Africa / Pakistan, Bangladesh, Nepal and Afghanistan) DR-361CL (For Other countries) DR-351CL
Belt End Soon	Belt unit	50,000 pages (5 pages per job) ^{1 3} 20,000 pages (1 page per job) ^{1 3}	See page 135	BU-320CL
WT Box End Soon	Waste toner box	50,000 pages ^{1 3}	See page 141	WT-320CL

¹ A4 or Letter size single-sided pages

² Approximate cartridge yield is declared in accordance with ISO/IEC 19798.

³ Life of supply is approximate and may vary by type of use.

⁴ Standard toner cartridge

⁵ High yield toner cartridge

⁶ Super high yield toner cartridge

You must clean the machine regularly and replace supplies when the following messages are displayed on the LCD:

LCD messages	Supply to replace	Approximate life	How to replace	Model Name
Replace Toner (The second line of the LCD) Open the Front Cover, replace Toner	Toner cartridge, Black	2,500 pages ^{1 2 4} 4,000 pages ^{1 2 5} 6,000 pages ^{1 2 6}	See page 123	See page 209
Cartridge. Black (BK). Replace Toner (The second line of the LCD) Open the Front Cover, replace Toner Cartridge. Cyan (C).	Toner cartridge, Cyan	1,500 pages ^{1 2 4} 3,500 pages ^{1 2 5} 6,000 pages ^{1 2 6}	_	
Replace Toner (The second line of the LCD) Open the Front Cover, replace Toner Cartridge. Magenta (M).	Toner cartridge, Magenta			
Replace Toner (The second line of the LCD) Open the Front Cover, replace Toner Cartridge. Yellow (Y).	Toner cartridge, Yellow			
Replace Drum	Drum unit	25,000 pages ^{1 3}	See page 129	(For Oceania) DR-341CL (For Middle East / Africa / Pakistan, Bangladesh, Nepal and Afghanistan) DR-361CL (For Other countries) DR-351CL
Drum Stop	Drum unit	25,000 pages ^{1 3}	See page 129	(For Oceania) DR-341CL (For Middle East / Africa / Pakistan, Bangladesh, Nepal and Afghanistan) DR-361CL (For Other countries) DR-351CL

LCD messages	Supply to replace	Approximate life	How to replace	Model Name
Replace Belt	Belt unit	50,000 pages (5 pages per job) ^{1 3}	See page 135	BU-320CL
		20,000 pages (1 page per job) ^{1 3}		
Replace WT Box	Waste toner box	50,000 pages ^{1 3}	See page 141	WT-320CL
Replace Fuser	Fuser unit	100,000 pages ^{1 3}	Call your dealer or Brother customer service for a replacement fuser unit.	
Replace PF KitMP	Paper feeding kit	50,000 pages ^{1 3}	Call your dealer or Brother customer service for a replacement PF kit MP.	
Replace PF Kitl	Paper feeding kit	100,000 pages ^{1 3}	Call your dealer or Brother customer service for a replacement PF kit 1.	
Replace PF Kit2	Paper feeding kit	100,000 pages ^{1 3}	Call your dealer or Brother customer service for a replacement PF kit 2.	
Replace Laser	Laser unit	100,000 pages ^{1 3}	Call your dealer or Brother customer service for a replacement laser unit.	

¹ A4 or Letter size single-sided pages

² Approximate cartridge yield is declared in accordance with ISO/IEC 19798.

- ³ Life of supply is approximate and may vary by type of use.
- ⁴ Standard toner cartridge
- ⁵ High yield toner cartridge
- ⁶ Super high yield toner cartridge

NOTE

- Discard used consumable items according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office. Be sure to reseal the consumable items tightly so that the material inside does not spill.
- We recommend placing used supplies on a piece of paper to prevent accidentally spilling or scattering the material inside.
- If you use paper that is not a direct equivalent of the recommended paper, the life of supplies and machine parts may be reduced.
- The projected life for each of the toner cartridges is based on ISO/ICE 19798. Frequency of replacement
 will vary depending on the print volume, percentage of coverage, types of media used, and powering on/off
 of the machine.
- Frequency of replacement supplies except toner cartridges will vary depending on the print volume, types of media used, and powering on/off of the machine.
- Availability of toner cartridges differs from one country to another. Visit the Brother Solutions Center at http://solutions.brother.com/ or contact your local Brother office for further details.

Replacing the toner cartridges

Model Name: For the item number of the toner cartridges, see Replacing supplies on page 118

The Standard toner cartridge can print approximately 2,500 pages (black) or approximately 1,500 pages (cyan, magenta, yellow) ¹. The High Yield toner cartridge can print approximately 4,000 pages (black) or approximately 3,500 pages (cyan, magenta, yellow) ¹². The Super High Yield toner cartridge can print approximately 6,000 pages (black, cyan, magenta, yellow) ¹³. Actual page count will vary depending on your average type of document. When a toner cartridge is running low, the LCD displays Toner Low.

The toner cartridge that comes supplied with the machine must be replaced after printing approximately 2,500 pages (black) or approximately 1,500 pages (cyan, magenta, yellow)¹.

- ¹ Approximate cartridge yield is declared in accordance with ISO/IEC 19798.
- ² Available in Oceania
- ³ Available in Other countries

NOTE

- The indication of remaining toner life will vary depending on the types of documents printed and your usage.
- It is a good idea to keep a new toner cartridge ready for use when you see the Toner Low warning.
- To ensure high quality printing, we recommend using only Brother Original toner cartridges. When you want to buy toner cartridges, contact your local Brother dealer or Brother customer service.
- We recommend cleaning the machine when you replace the toner cartridge. See *Cleaning and Checking the machine* on page 148.
- DO NOT unpack the new toner cartridge until you are ready to install it.

Toner Low: X



If the LCD displays Toner Low: X, the machine has nearly run out of toner. Buy a new toner cartridge and have it ready before you get a Replace Toner message. The X shows the toner colour that is near the end of its life. (BK=Black, C=Cyan, M=Magenta, Y=Yellow). To replace the toner cartridge, see *Replacing the toner cartridges* on page 123.

Replace Toner

When the following message appears on the LCD, you must replace the toner cartridge:

Replace Toner

The second line of the LCD indicates which colour must replace.

When the LCD displays Replace Toner the machine will stop printing until you replace the toner cartridge. A new Brother Original toner cartridge will reset the Replace Toner message.

NOTE

For more information about how toner cartridge life is calculated, see *Important information for the toner cartridge life* on page 211.

Replacing the toner cartridges

1

Make sure that the machine is turned on.

2 Press the front cover release button and pull open the front cover.



3 Hold the blue handle of the drum unit. Pull the drum unit out until it stops.



4 Hold the handle of the toner cartridge and gently push it toward the machine to unlock it. Then pull it out of the drum unit. Repeat this for all the toner cartridges.



WARNING



- DO NOT put a toner cartridge into a fire. It could explode, resulting in injuries.
- 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, soft, lint-free cloth.

(See the Product Safety Guide.)



IMPORTANT

- Handle the toner cartridge carefully. If toner scatters on your hands or clothes, immediately wipe or wash it off with cold water.
- To avoid print quality problems, DO NOT touch the shaded parts shown in the illustration.
 - <Toner cartridge>



• We recommend placing the toner cartridge on a clean, flat, level, stable surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.

NOTE

- Be sure to seal up the used toner cartridge tightly in a bag so that toner powder does not spill out of the cartridge.
- Discard used consumable items according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office. Be sure to reseal the consumable items tightly so that the material inside does not spill.
- 5 Clean the corona wire inside the drum unit by gently sliding the blue tab from left to right and right to left several times.

IMPORTANT

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



- 6 Repeat step 6 to clean each of three remaining corona wires.
 - Unpack the new toner cartridge, then pull off the protective cover.



IMPORTANT

- DO NOT unpack the new toner cartridge until you are ready to install it. If a toner cartridge is left unpacked for a long time, the toner life will be shortened.
- If an unpacked drum unit is exposed to direct sunlight (or room light for long periods of time), the unit may be damaged.
- 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. 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
 part 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.
- Put the toner cartridge in the drum unit immediately after you have removed the protective cover. To prevent degradation to the print quality, DO NOT touch the shaded parts shown in the illustration.



8 Hold the handle of the toner cartridge and slide the toner cartridge into the drum unit then gently pull it toward you until you hear it click into place. Make sure that you match the toner cartridge colour to the same colour label on the drum unit. Repeat this for all the toner cartridges.



NOTE

Make sure you installed the toner cartridge correctly or it may separate from the drum unit.

9 Push the drum unit in until it stops.



10 Close the front cover of the machine.

NOTE

After replacing the toner cartridge, DO NOT turn off the machine's power switch or open the front cover until the LCD displays Ready.

Replacing the drum unit

(For Oceania) Model Name: DR-341CL

(For Middle East / Africa / Pakistan, Bangladesh, Nepal and Afghanistan) Model Name: DR-361CL

(For Other countries) Model Name: DR-351CL

A new drum unit can print approximately 25,000 pages. 12

¹ A4 or Letter size single-sided pages.

² Drum life is approximate and may vary by type of use.

IMPORTANT

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 unit or toner unit.

Drum !

Drum	!		

The corona wires are coated with paper dust or toner. Clean the corona wires in the drum unit (see *Cleaning the corona wires* on page 154).

Drum End Soon



The drum unit is nearing the end of its rated life and will require replacement. We recommend you keep a Brother Original drum unit ready for installation. Buy a new drum unit (DR-341CL/DR-361CL/DR-351CL) and have it ready before you get a Replace Drum message.

Replace Drum



The drum unit has exceeded its rated life. Please replace the drum unit with a new one. We recommend Brother Original drum unit be installed at this time.

After replacement, reset the drum counter by following the instructions included with the new drum unit.

Drum Stop

Drum	Stop	
l		

We cannot guarantee the print quality. Please replace the drum unit with a new one. We recommend a Brother Original drum unit be installed at this time.

After replacement, reset the drum counter by following the instructions included with the new drum unit.

Replacing the drum unit

IMPORTANT

- While removing the drum unit, handle it carefully because it may contain toner. If toner scatters on your hands or clothes, immediately wipe or wash it off with cold water.
- Every time you replace the drum unit, clean the inside of the machine (see *Cleaning and Checking the machine* on page 148).

When you replace the drum unit with a new one, follow these steps, and then reset the drum counter by following the instructions included with the new drum unit.



Make sure that the machine is turned on.

Press the front cover release button and pull open the front cover.



3 Hold the blue handle of the drum unit. Pull the drum unit out until it stops.



4 Turn the blue lock lever (1) at the left of the machine counterclockwise to the release position. Holding the blue handles of the drum unit, lift the front of the drum unit and remove it from the machine.



IMPORTANT

• Hold the blue handles of the drum unit when you carry it. DO NOT hold the sides of the drum unit.



- We recommend placing the drum unit on a clean, flat, level, stable surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- To prevent damage to the machine from static electricity, DO NOT touch the electrodes shown in the illustration.



6 Hold the handle of the toner cartridge and gently push it forward to unlock it. Then pull it out of the drum unit. Repeat this for all the toner cartridges.



WARNING

- DO NOT put a toner cartridge into a fire. It could explode, resulting in injuries.
- 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, soft, lint-free cloth.

(See the Product Safety Guide.)



IMPORTANT

- Handle the toner cartridge carefully. If toner scatters on your hands or clothes, immediately wipe or wash it off with cold water.
- To avoid print quality problems, DO NOT touch the shaded parts shown in the illustrations.

<Toner cartridge>

<Drum unit>







• We recommend placing the toner cartridge on a clean, flat, level, stable surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.

NOTE

- Be sure to seal up the used drum unit tightly in a bag so that toner powder does not spill out of the drum unit.
- Discard used consumable items according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office. Be sure to reseal the consumable items tightly so that the material inside does not spill.
- 6 Unpack the new drum unit and remove the protective cover.



7 Hold the handle of the toner cartridge and slide it into the appropriate coloured section of the drum unit until you hear it click into place.



NOTE

Make sure you install the toner cartridge correctly or it may separate from the drum unit.

8 Make sure the blue lock lever (1) is in the release position as shown in the illustration.



9 Gently slide the drum unit into the machine until it stops at the blue lock lever.



10 Turn the blue lock lever (1) clockwise to the lock position.







- (2) Close the front cover of the machine.
- (13) When you replace the drum unit with a new one, you need to reset the drum counter. Instructions of how to do this can be found in the box your new drum unit came in.

Replacing the belt unit

Model Name: BU-320CL

A new belt unit can print approximately 50,000 pages (5 pages per job) ^{1 2} or 20,000 pages

(1 page per job) 1 2

- ¹ A4 or Letter size single-sided pages.
- ² Belt unit life is approximate and may vary by type of use.

Belt End Soon

Belt End Soon

If the LCD displays Belt End Soon, it means the belt unit is near the end of its life. Buy a new belt unit and have it ready before you get a Replace Belt message. To replace the belt unit, see *Replacing the belt unit* on page 135.

Replace Belt

When the following message appears on the LCD, you must replace the belt unit:

Replace Belt

IMPORTANT

- DO NOT touch the surface of the belt unit. If you touch it, it could degrade print quality.
- Damage caused by incorrect handling of the belt unit may void your warranty.

Replacing the belt unit

- 1 Make sure that the machine is turned on.
- Press the front cover release button and pull open the front cover.



3 Hold the blue handle of the drum unit. Pull the drum unit out until it stops.



4 Turn the blue lock lever (1) at the left of the machine counterclockwise to the release position. Holding the blue handles of the drum unit, lift the front of the drum unit and remove it from the machine.



IMPORTANT

• Hold the blue handles of the drum unit when you carry it. DO NOT hold the sides of the drum unit.



- We recommend placing the drum unit on a clean, flat, level, stable surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- To prevent damage to the machine from static electricity, DO NOT touch the electrodes shown in the illustration.


5 Hold the blue handle of the belt unit with both hands and lift the belt unit up, and then pull it out.



IMPORTANT

To avoid print quality problems, DO NOT touch the shaded parts shown in the illustrations.



6 Unpack the new belt unit and install it in the machine. Make sure the belt unit is level and fits firmly into place.



7 Make sure the blue lock lever (1) is in the release position as shown in the illustration.



8 Gently slide the drum unit into the machine until it stops at the blue lock lever.



9 Turn the blue lock lever (1) clockwise to the lock position.







- (1) Close the front cover of the machine.
- 12 When you replace the belt unit with a new one, you need to reset the belt unit counter. Instructions of how to do this can be found in the box your new belt unit came in.

Replacing the waste toner box

Model Name: WT-320CL

The life of a waste toner box is approximately 50,000 pages.¹²

- ¹ A4 or Letter size single-sided pages.
- ² Waste toner box life is approximate and may vary by type of use.

WT Box End Soon



If the LCD displays WT Box End Soon, it means the waste toner box is near the end of its life. Buy a new waste toner box and have it ready before you get a Replace WT Box message. To replace the waste toner box, see *Replacing the waste toner box* on page 141.

Replace WT Box

When the following message appears on the LCD, you must replace the waste toner box:

Replace WT Box

Replacing the waste toner box



2 Press the front cover release button and pull open the front cover.



3 Hold the blue handle of the drum unit. Pull the drum unit out until it stops.



4 Turn the blue lock lever (1) at the left of the machine counterclockwise to the release position. Holding the blue handles of the drum unit, lift the front of the drum unit and remove it from the machine.



IMPORTANT

• Hold the blue handles of the drum unit when you carry it. DO NOT hold the sides of the drum unit.



- We recommend placing the drum unit on a clean, flat, level, stable surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- To prevent damage to the machine from static electricity, DO NOT touch the electrodes shown in the illustration.



5 Hold the blue handle of the belt unit with both hands and lift the belt unit up, and then pull it out.



IMPORTANT

To avoid print quality problems, DO NOT touch the shaded parts shown in the illustrations.



6 Remove the two pieces of orange packing material and discard them.



NOTE

This step is only necessary when you are replacing the waste toner box for the first time, and is not required for the replacement waste toner box. The orange packing pieces are installed at the factory to protect your machine during shipment.

Hold the blue handle of the waste toner box and remove the waste toner box from the machine.



IMPORTANT

DO NOT reuse the waste toner box.

WARNING



- DO NOT put the waste toner box into a fire. It could explode, resulting in injuries.
- 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, soft, lint-free cloth.

(See the Product Safety Guide.)



NOTE

- Be sure to seal up the waste toner box tightly in an appropriate bag so that toner powder does not spill out of the waste toner box.
- Discard the used waste toner box according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office.

8 Unpack the new waste toner box and install it in the machine using the blue handle. Make sure the waste toner box is level and fits firmly into place.



9 Slide the belt unit back into the machine. Make sure the belt unit is level and fits firmly into place.



10 Make sure the blue lock lever (1) is in the release position as shown in the illustration.



(1) Gently slide the drum unit into the machine until it stops at the blue lock lever.



12 Turn the blue lock lever (1) clockwise to the lock position.







14 Close the front cover of the machine.

Cleaning and Checking the machine

Clean the outside and inside of the machine regularly with a dry, soft, 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, soft, lint-free cloth.

WARNING



- DO NOT put a toner cartridge into a fire. It could explode, resulting in injuries.
- 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, soft, lint-free cloth.

(See the Product Safety Guide.)



IMPORTANT

Use neutral detergents. Cleaning with volatile liquids such as thinner or benzine will damage the surface of the machine.

Cleaning the outside of the machine

- Press and hold down 💿 to turn the machine off.
- Wipe the outside of the machine with a dry, soft, lint-free cloth to remove dust.



3 Pull the paper tray completely out of the machine.



- 4 If paper is loaded in the paper tray, remove it.
- 5 Remove anything that is stuck inside the paper tray.
- 6 Wipe the inside and the outside of the paper tray with a dry, soft, lint-free cloth to remove dust.



- **7** Re-load the paper and put the paper tray firmly back in the machine.
- 8 Turn on the machine.

Cleaning the inside of the machine

1 Press and hold down 🕐 to turn the machine off.

2 Press the front cover release button and pull open the front cover.



3 Hold the blue handle of the drum unit. Pull the drum unit out until it stops.



4 Turn the blue lock lever (1) at the left of the machine counterclockwise to the release position. Holding the blue handles of the drum unit, lift the front of the drum unit and remove it from the machine.



IMPORTANT

• Hold the blue handles of the drum unit when you carry it. DO NOT hold the sides of the drum unit.



- We recommend placing the drum unit on a clean, flat, level, stable surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- To prevent damage to the machine from static electricity, DO NOT touch the electrodes shown in the illustration.



5 Wipe the four scanner windows (1) with a dry, soft, lint-free cloth.



6 Make sure the blue lock lever (1) is in the release position as shown in the illustration.



7 Gently slide the drum unit into the machine until it stops at the blue lock lever.



8 Turn the blue lock lever (1) clockwise to the lock position.



9 Push the drum unit in until it stops.



- (1) Close the front cover of the machine.
- 11 Turn on the power switch.

Cleaning the corona wires

If you have print quality problems, clean the corona wires as follows:

- 1 Make sure that the machine is turned on.
- 2 Press the front cover release button and pull open the front cover.



3 Hold the blue handle of the drum unit. Pull the drum unit out until it stops.



4 Hold the handle of the toner cartridge and gently push it toward the machine to unlock it. Then pull it out of the drum unit. Repeat this for all the toner cartridges.



IMPORTANT

- We recommend placing the toner cartridges on a piece of disposable paper or cloth in case you accidentally spill or scatter toner.
- Handle the toner cartridges carefully. If toner scatters on your hands or clothes, immediately wipe or wash it off with cold water.

5 Clean the corona wire inside the drum unit by gently sliding the blue tab from left to right and right to left several times.

IMPORTANT

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



Repeat step 6 to clean each of three remaining corona wires.

Hold the handle of the toner cartridge and slide the toner cartridge into the drum unit then gently pull it toward you until you hear it click into place. Make sure that you match the toner cartridge colour to the same colour label on the drum unit. Repeat this for all the toner cartridges.



8 Push the drum unit in until it stops.



9 Close the front cover of the machine.

Cleaning the drum unit

If your printout has white or black dots at 94 mm intervals, the drum may have foreign material, such as glue from a label, stuck on the drum surface. Follow the steps below to solve the problem:

- 1 Make sure the machine is in Ready mode.
- 2 Press ▲ or ▼ (+ or -) to choose Machine Info.. Press OK.
- 3 Press ▲ or ▼ (+ or -) to choose Drum Dot Print. Press OK to print the drum dot check sheet.
- 4 Press and hold down 🔘 to turn the machine off.
- 5 Press the front cover release button and pull open the front cover.



6 Hold the blue handle of the drum unit. Pull the drum unit out until it stops.



7 Turn the blue lock lever (1) at the left of the machine counterclockwise to the release position. Holding the blue handles of the drum unit, lift the front of the drum unit and remove it from the machine.



IMPORTANT

• Hold the blue handles of the drum unit when you carry it. DO NOT hold the sides of the drum unit.



- We recommend placing the drum unit on a clean, flat, level, stable surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- To prevent damage to the machine from static electricity, DO NOT touch the electrodes shown in the illustration.



8 Hold the handle of the toner cartridge and gently push it toward the machine to unlock it. Then pull it out of the drum unit.

Repeat this for all the toner cartridges.



IMPORTANT

Handle the toner cartridges carefully. If toner scatters on your hands or clothes, immediately wipe or wash it off with cold water.

9 Turn the drum unit over by holding the blue handles. Make sure that the drum unit gears (1) are on the left side.



10 Read the following information from the drum dot check sheet:

- Dot Colour problem: The colour of printed dots is the colour of the drum you will clean.
- Dot location: The sheet has eight numbered columns. The number of the column with the printed dot in it is used to find the dot position on the drum.

Use the numbered markers next to the drum roller to find the mark. For example, a cyan dot in column 2 on the check sheet would mean that there is a mark in the "2" region of the cyan drum.



12 Turn the drum unit gear and the edge of the drum unit toward you using both hands while looking at the surface of the suspected area.



IMPORTANT

To avoid print quality problems, DO NOT touch the surface of the drum unit.

(13) When you have found the mark on the drum that matches the drum dot check sheet, wipe the surface of the drum gently with a cotton swab until the mark on the surface comes off.



IMPORTANT

DO NOT clean the surface of the photosensitive drum with a sharp object or any liquids.

Hold the handle of the toner cartridge and slide it into the appropriate coloured section of the drum unit until you hear it click into place.



15 Make sure the blue lock lever (1) is in the release position as shown in the illustration.



16 Gently slide the drum unit into the machine until it stops at the blue lock lever.



17 Turn the blue lock lever (1) clockwise to the lock position.







- (9) Close the front cover of the machine.
- 20 Turn on the power switch.

Cleaning the paper pick-up roller

Cleaning the paper pick-up roller periodically may prevent paper jams by insuring the proper feeding of paper.

- 1 Press and hold down 🕐 to turn the machine off.
- 2 Pull the paper tray completely out of the machine.
- 3 If paper is loaded in the paper tray, remove it.
- 4 Remove anything that is stuck inside the paper tray.
- 5 Tightly wring out a soft, lint-free cloth soaked in lukewarm water, and then wipe the separator pad (1) of the paper tray with it to remove dust.



6 Wipe the two pick-up rollers (1) inside of the machine to remove dust.



- 7 Reload the paper, and then put the paper tray firmly back in the machine.
- Turn on the machine.

Replacing periodic maintenance parts

The periodic maintenance parts must be replaced regularly to maintain print quality. The parts listed below must be replaced after printing approximately 50,000 pages ¹ for PF Kit MP and 100,000 pages ¹ for PF Kit 1, PF Kit 2, Fuser and Laser.

Please call your local Brother dealer or Brother customer service when the following messages appear on the LCD:

LCD message	Description	
Replace Fuser ²	Replace the fuser unit.	
Replace Laser ²	Replace the laser unit.	
Replace PF Kitl ²	Replace the paper feeding kit for the paper tray.	
Replace PF Kit2 ²³	Replace the paper feeding kit for the lower tray (option).	
Replace PF KitMP ²	Replace the paper feeding kit for the multi-purpose tray.	

¹ A4 or Letter size single-sided pages.

² Life of part is approximate and may vary by type of use.

³ If the optional lower tray is installed on HL-L8250CDN or HL-L8350CDW.

Packing and shipping the machine

A WARNING

• This machine is heavy and weighs more than 21.9kg. To prevent possible injuries at least two people should lift the machine. One person should hold the front of the machine, and one person should hold the back, as shown in the illustration. Be careful not to pinch your fingers when you put the machine down.



• If you use a Lower Tray, DO NOT carry the machine with the Lower Tray as you may be injured or cause damage to the machine because it is not attached to the Lower Tray.

If for any reason you must ship your machine, carefully repack the machine in the original packaging to avoid damage during transit. The machine should be adequately insured with the carrier.

- Press and hold down on to turn the machine off. Leave the machine turned off for at least 10 minutes to cool down.
- 2 Disconnect all the cables, and then unplug the power cord from the electrical socket.





4 Wrap the machine in a plastic bag. Put the machine on the bottom packing material (1) and the packing material (2) on the top of the machine. Match the front side of the machine to the "FRONT" mark on each packing material.



5 Put the AC power cord in the original carton as shown in the illustration.



6 Close the carton and tape it shut.

(7) < If you have a Lower Tray>Pack the lower tray as shown in the illustration.



6

Troubleshooting

If you think there is a problem with your machine, check each item below first and follow the troubleshooting tips. You can solve most problems yourself.

Identifying the problem

First, check that

- The machine's power cord is connected correctly and the machine is turned on. If the machine does not turn on after connecting the power cord, see Other difficulties on page 191.
- All of the protective parts have been removed.
- Paper is inserted correctly in the paper tray.
- The interface cables are securely connected to the machine and the computer, or the wireless connection is set up on both the machine and your computer.
- LCD Messages

(See Error and maintenance messages on page 171.)

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

Machine does not print.

Paper handling

(See Paper handling difficulties on page 189.)

Pages are printed, but there are still problems.

Print quality

(See Improving the print quality on page 192.)

Printout is incorrect

(See Printing difficulties on page 188.)

Network and other problems:

- Network difficulties on page 190
- Other difficulties on page 191

Error and maintenance messages

As with any sophisticated office product, errors may occur and supplies must be replaced. If this happens, your machine identifies the error or required routine maintenance and displays the appropriate message. The most common error and maintenance messages are shown below.

You can clear most errors and perform routine maintenance yourself. If you need more help, the Brother Solutions Center offers the latest FAQs and troubleshooting tips: Visit <u>http://solutions.brother.com/</u>.

Using non-Brother supplies is not recommended and may affect the print quality, hardware performance, and machine reliability.

NOTE

The LCD displays the tray names as follows.

- Standard paper tray: Tray 1
- Multi-purpose tray: MP Tray
- Optional lower tray: Tray 2 and T2

Error message	Cause	Action
2-sided Disabled	The back cover of the machine is not closed completely.	Close the back cover of the machine.
Access Denied	The function you want to use is restricted by Secure Function Lock.	Contact your administrator to check your Secure Function Lock settings.
Access Error	The device was removed from the USB direct interface while data was processing.	Press Cancel . Reinsert the device and try to print with Direct Print.
Belt End Soon	The belt unit is near the end of its life.	Buy a new belt unit before you get a Replace Belt message.
Calibrate	Calibration failed.	Press and hold down (1) to turn the machine off. Wait a few seconds, and then turn it on again. Perform the colour calibration again using the control panel or the printer driver (see <i>Colour</i> <i>Calibration</i> on page 47).
		Install a new belt unit (see Replacing the belt unit on page 135).
		If the problem continues, call Brother customer service or your local Brother dealer.
Cartridge Error	The toner cartridge is not installed correctly.	Pull out the drum unit, remove the toner cartridge for the colour that is indicated on the LCD, and put it back into the drum unit again. Install the drum unit in the machine again. If the problem continues, call Brother customer service or your local Brother dealer.

Troubleshooting

Error message	Cause	Action
Condensation	Condensation may have formed inside the machine after a room temperature change.	Leave the machine turned on. Wait for 30 minutes with the front cover in the open position. Then turn off the machine and close the cover. Turn it on again.
Cover is Open	The front cover is not closed completely.	Close the front cover of the machine.
	The fuser cover is not closed completely.	Close the fuser cover located inside the back cover of the machine.
DIMM Error	 The DIMM is not installed correctly. The DIMM is broken. 	Turn off the machine and unplug the power cord. Remove the DIMM. (See Installing extra memory on page 116.)
	The DIMM does not meet the required specifications.	Confirm that the DIMM meets the required specifications. (For details, see SO-DIMM types on page 115.)
		Reinstall the DIMM correctly. Wait a few seconds. Plug in the power cord, and then turn the machine on again.
		If this error message appears again, replace the DIMM with a new one. (See Installing extra memory on page 116.)
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 LCD displays Replace Drum (see Drum End Soon on page 128).
Drum !	The corona wire on the drum unit needs to be cleaned.	Clean all four corona wires inside the drum unit by sliding the blue tabs (see <i>Cleaning the corona wires</i> on page 154).
	The drum unit is not installed correctly.	Remove the drum unit, remove the toner cartridges from the drum unit, and put the toner cartridges back into the drum unit. Reinstall the drum unit in the machine.
Drum Stop	It is time to replace the drum unit.	Replace the drum unit (see <i>Replacing the drum unit</i> on page 128).
Jam 2-sided	The paper is jammed underneath the paper tray or the fuser unit.	See Paper is jammed underneath the Paper Tray on page 178.
Jam Inside	The paper is jammed inside the machine.	See <i>Paper is jammed inside the machine</i> on page 184.
Jam MP Tray	The paper is jammed in the multi-purpose tray of the machine.	See <i>Paper is jammed in the multi-purpose tray</i> on page 176.
Jam Rear	The paper is jammed in the back of the machine.	See Paper is jammed at the back of the machine on page 181.
Jam Tray 1 Jam Tray 2	The paper is jammed in the paper tray of the machine.	See Paper is jammed in Paper Tray 1 or Tray 2 on page 176.
Limit Exceeded	The print limit set in Secure Function Lock was reached.	Contact your administrator to check your Secure Function Lock settings.

Troubleshooting

Error message	Cause	Action
Log Access Error	The machine could not access the print log file in the server.	Contact your administrator to check the Store Print Log to Network settings.
		(For detailed information, see the Network User's Guide.)
No Belt Unit	The belt unit is not installed correctly.	Reinstall the belt unit (see the steps in <i>Replacing the belt unit</i> on page 135).
No Drum Unit	The drum unit is not installed correctly.	Reinstall the drum unit. (See <i>Replacing the drum unit</i> on page 128.)
No HUB Support	A USB hub device is connected to the USB direct interface.	Disconnect the USB hub device from the USB direct interface.
No Paper	The machine is out of paper or	Load paper in the indicated paper tray.
(The second line of the LCD)	paper is not correctly loaded in the specified paper tray.	Make sure the paper guides are set to the correct size.
Load (size) paper in (tray).		
No Permission	Printing colour documents is restricted.	Contact your administrator to check your Secure Function Lock settings.
No Toner	The toner cartridge for the colour indicated on the second line of LCD is not installed correctly.	Remove the drum unit, remove the toner cartridge for the colour indicated on the second line of LCD from the drum unit, and put the toner cartridge back into the drum unit. Reinstall the drum unit in the machine. If the problem continues, replace the toner cartridge (see <i>Replacing the toner cartridges</i> on page 123).
No Tray	The paper tray that is indicated on the second line of the LCD is not installed or not installed correctly.	Reinstall the paper tray that is indicated on the second line of the LCD.
No Waste Toner	The waste toner box is not installed correctly.	Reinstall the Waste Toner Box (see the steps in <i>Replacing the waste toner box</i> on page 141).
Not Available	The requested function is not permitted to all User IDs by Secure Function Lock.	Contact your administrator to check your Secure Function Lock settings.
Out of Memory	The machine's memory is full.	Reduce the complexity of your document or reduce the print resolution.
		Add more memory. (see <i>Installing extra memory</i> on page 116.)
Print Data Full	The machine's memory is full.	Press Cancel and delete the previously stored secure print jobs.
		Add more memory. (see <i>Installing extra memory</i> on page 116.)
Print Unable ##	The machine has a mechanical problem.	Press and hold down 🕐 to turn the machine off. Wait a few seconds, then turn it on again.
		If the problem continues, call Brother customer service or your local Brother dealer.
Error message	Cause	Action
--	--	---
Registration	Registration failed.	 Press and hold down to turn the machine off. Wait a few seconds, and then turn it on again. Perform the colour registration again using the control panel (see <i>Colour Registration</i> on page 112). Install a new belt unit (see <i>Replacing the belt unit</i> control panel (see <i>Colour Registration</i>)
		 on page 135). If the problem continues, call Brother customer service or your local Brother dealer.
Replace Belt	It is time to replace the belt unit.	Replace the belt unit (see <i>Replacing the belt unit</i> on page 135).
Replace Drum	It is time to replace the drum unit.	Replace the drum unit (see <i>Replacing the drum unit</i> on page 128).
	The drum unit counter was not reset when a new drum was installed.	Reset the drum unit counter by following the instructions included with the new drum unit.
Replace Fuser	It is time to replace the fuser unit.	Call Brother customer service or your local Brother dealer or a Brother Authorized Service Center to replace the fuser unit.
Replace Laser	It is time to replace the laser unit.	Call Brother customer service or your local Brother dealer or a Brother Authorized Service Center to replace the laser unit.
Replace PF Kit1 Replace PF Kit2 Replace PF KitMP	It is time to replace the paper feeding kit.	Call Brother customer service or your local Brother dealer or a Brother Authorized Service Center to replace the PF kit.
Replace Toner	The toner cartridge is at the end of its life. The machine will stop all print operations.	Replace the toner cartridge for the colour indicated on the LCD (see <i>Replacing the toner cartridges</i> on page 123).
Replace WT Box	It is time to replace the waste toner box.	Replace the waste toner box (see <i>Replacing the waste toner box</i> on page 141).
Self-Diagnostic	The temperature of the fuser unit does not rise to a specified temperature within the specified time.	Turn the machine off, wait a few seconds, and then turn it on again. Leave the machine for 15 minutes with the power on.
	The fuser unit is too hot.	
Short paper	The length of the paper in the tray is too short for the machine to deliver it to the Face-down output tray.	Open the back cover (face-up output tray) to let the printed page exit onto the face-up output tray. Remove the printed pages, and then press Go .
Size Error	The paper size specified in the printer driver is not supported by the specified tray.	Choose a paper size that is supported for each tray. (See <i>Paper type and size</i> on page 2.)

Error message	Cause	Action
Size Error DX	The paper size specified in the printer driver and the control panel	Press Cancel . Choose a paper size that is supported by 2-sided printing.
	menu is not available for automatic 2-sided printing.	The paper size for automatic 2-sided printing is A4.
	The paper in the tray is not the correct size and is not available for automatic 2-sided printing.	Load the correct size of paper in the tray and set the size of paper for the tray (see <i>Paper Tray</i> on page 91).
		The paper size for automatic 2-sided printing is A4.
Size Mismatch	The paper in the indicated tray is not the correct size.	Do one of the following: Load the same size of paper in the paper tray that is selected in the printer driver, and then press Go .
		In the printer driver select the size of paper that you loaded in the indicated paper tray.
Small paper	The paper size specified in the printer driver is too small for the machine to deliver it to the Face- down output tray.	Open the back cover (face-up output tray) to let the printed paper exit onto the face-up output tray, and then press Go .
Toner Error	One or more toner cartridges are not installed correctly.	Pull out the drum unit. Remove all the toner cartridges, and then put them back into the drum unit.
Toner Low: X	If the LCD displays Toner Low you	Order a new toner cartridge now so a replacement
(X indicates the toner cartridge or drum unit colour that is near the end of its life. BK=Black, C=Cyan, M=Magenta, Y=Yellow.)	can still print; however, the machine is telling you that the toner cartridge is near the end of its life.	toner cartridge will be available when the LCD displays Replace Toner.
Tray 2 Error	The optional lower tray is not installed correctly.	Reinstall the lower tray.
Unusable Device	An incompatible or defective device has been connected to the USB direct interface.	Remove the USB flash drive from the USB Direct Interface.
WT Box End Soon	The waste toner box is almost full.	Order a new waste toner box before you get a Replace WT Box message.

Paper jams

Always remove the remaining paper from the paper tray and straighten the stack when you are adding new paper. This helps prevent multiple sheets of paper from feeding through the machine at one time and prevents paper jams.

Paper is jammed in the multi-purpose tray

If the LCD displays Jam MP Tray, follow these steps:

- 1 Remove the paper from the MP tray.
- 2 Remove any jammed paper from in and around the MP tray.
- 3 Fan the paper stack, and then put it back in the MP tray.



- When loading paper in the MP tray, make sure that the paper stays under the maximum paper height guides on both sides of the tray.
- 5 Press Go to resume printing.

Paper is jammed in Paper Tray 1 or Tray 2

If the LCD displays Jam Tray 1 or Jam Tray 2, follow these steps:

1 Pull the paper tray completely out of the machine. For Jam Tray 1:



For Jam Tray 2:



2 Use both hands to slowly pull out the jammed paper.



NOTE

Pulling the jammed paper downward allows you to remove the paper more easily.

3 Make sure that the paper is below the maximum paper mark (▼ ▼ ▼) in the paper tray. While pressing the blue paper-guide release lever, slide the paper guides to fit the paper size. Make sure that the guides are firmly in the slots.

4 Put the paper tray firmly back in the machine.

Paper is jammed underneath the Paper Tray

If the LCD displays Jam 2-sided, follow these steps:

- 1 Leave the machine turned on for 10 minutes for the internal fan to cool the extremely hot parts inside the machine.
- 2 Pull the paper tray completely out of the machine.



3 Make sure that the jammed paper does not remain inside the machine.



4 If paper is not caught inside the machine, check underneath the paper tray.



5 If the paper is not caught in the paper tray, open the back cover.



WARNING

HOT SURFACE

After you have just used the machine, some internal parts of the machine will be extremely hot. Wait for the machine to cool down before you touch the internal parts of the machine.



6 Use both hands to pull out the jammed paper slowly.



- 7 Close the back cover until it locks in the closed position.
- 8 Put the paper tray back in the machine.

6

Paper is jammed at the back of the machine

If the LCD displays Jam Rear, a paper jam occurred behind the back cover. Follow these steps:

- Leave the machine turned on for 10 minutes for the internal fan to cool the extremely hot parts inside the machine.
- 2 Open the back cover.



WARNING

HOT SURFACE

After you have just used the machine, some internal parts of the machine are extremely hot. Wait for the machine to cool down before you touch the internal parts of the machine.



3 Pull the blue tabs at the left and right sides toward you to release the fuser cover (1).



NOTE

If the envelope levers (3) inside the back cover are pulled down to the envelope position, lift these levers to the original position before pulling the blue tabs (2) down.

4 Use both hands to gently pull the jammed paper out of the fuser unit.







NOTE

If you print on envelopes, pull down the envelope levers (2) to the envelope position again before closing the back cover.

6 Close the back cover.

Paper is jammed inside the machine

If the LCD displays Jam Inside, follow these steps:

1 Press the front cover release button and pull open the front cover.



2 Hold the blue handle of the drum unit. Pull the drum unit out until it stops.



3 Turn the blue lock lever (1) at the left of the machine counterclockwise to the release position. Holding the blue handles of the drum unit, lift the front of the drum unit and remove it from the machine.



IMPORTANT

• Hold the blue handles of the drum unit when you carry it. DO NOT hold the sides of the drum unit.



- We recommend placing the drum unit on a clean, flat, level, stable surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- To prevent damage to the machine from static electricity, DO NOT touch the electrodes shown in the illustration.







IMPORTANT

To avoid print quality problems, DO NOT touch the shaded parts shown in the illustration.



5 Make sure the blue lock lever (1) is in the release position as shown in the illustration.



6

6 Gently slide the drum unit into the machine until it stops at the blue lock lever.



7 Turn the blue lock lever (1) clockwise to the lock position.







9 Close the front cover of the machine.

NOTE

If you turn off the machine during Jam Inside, the machine will print incomplete data from your computer when it is turned back on. Before you turn on the machine, delete the print spooler job on your computer.

If you are having difficulty with your machine

IMPORTANT

- For technical help, you must call Brother customer service or your local Brother dealer.
- If you think there is a problem with your machine, check the chart below and follow the troubleshooting tips. You can solve most problems yourself.
- If you need additional help, the Brother Solutions Center offers the latest FAQs and troubleshooting tips. Visit <u>http://solutions.brother.com/</u>.

Printing difficulties

Difficulties	Suggestions
No printout.	Check that the correct printer driver has been installed and chosen.
	Check to see if the LCD is showing an error message. (See <i>Error and maintenance messages</i> on page 171.)
	Check the machine is online:
	(Windows [®] 7 and Windows Server [®] 2008 R2)
	Click the (Start) button > Devices and Printers. Right-click Brother HL-XXXX series and click See what's printing. Click Printer and make sure you clear the check mark before Use Printer Offline. (Windows Vista [®] and Windows Server [®] 2008)
	Click the (Start) button > Control Panel > Hardware and Sound > Printers. Right-click Brother HL-XXXX series. Make sure you clear the check mark before Use Printer Offline.
	(Windows [®] XP and Windows Server [®] 2003) Click the Start button > Printers and Faxes . Right-click Brother HL-XXXX series . Make sure you clear the check mark before Use Printer Offline .
	(Windows [®] 8 and Windows Server [®] 2012) Move your mouse to the lower right corner of your desktop. When the menu bar appears, click Settings > Control Panel. In the Hardware and Sound (Hardware) group, click View devices and printers. Right-click the Brother HL-XXXX Printer > See what's printing. If printer driver options appear, select your printer driver. Click Printer in the menu bar and make sure you clear the check mark before Use Printer Offline.
	(For Windows Server [®] 2012 R2) Click Control Panel on the Start screen. In the Hardware group, click View devices and printers . Right-click the Brother HL-XXXX Printer > See what's printing . If printer driver options appear, select your printer driver. Click Printer in the menu bar and make sure you clear the check mark before Use Printer Offline .
	Contact your administrator to check your Secure Function Lock settings.
	Make sure the interface is set to Auto on the machine (see how to change the interface on page 92).

Printing difficulties (continued)

Difficulties	Suggestions
No printout.	Check that the machine is not in Power Off mode.
(Continued)	If the machine is in Power Off mode, press () on the control panel, and then re-
	send the print job.
	(See Auto Power Off on page 109.)
The machine is not printing or has stopped printing.	Press Cancel.
nas stopped printing.	The machine will cancel the print job and clear it from the memory. The printout may be incomplete.
The headers or footers appear when the document is displayed on the screen but they are not on the printed page.	There is an unprintable area on the top and bottom of the page. Adjust the top and bottom margins in your document to allow for this. (See <i>Unprintable area when printing from a computer</i> on page 7.)
The machine prints	Press Cancel to cancel the print jobs.
unexpectedly or it prints garbage.	Check the settings in your application to make sure they are set to work with your machine.
The machine prints the first couple of pages correctly, then some pages have text missing.	Check the settings in your application to make sure that they are set to work with your machine.
	Your computer is not recognising the machine's input buffer's full signal. Make sure the interface cable is connected correctly.
Cannot perform 'Page Layout' printing.	Check that the paper size settings in the application and in the printer driver are the same.
Print speed is too slow.	Try changing the printer driver setting. The highest quality takes longer data processing, sending and printing time.
	If the machine is in Quiet mode, print speed is slower. Check the Quiet mode setting. (See <i>Turning Quiet mode on/off</i> on page 110.)
The machine does not print	Reduce the print quality.
from Adobe [®] Illustrator [®] .	(For Windows, see <i>Basic tab</i> on page 33.)
	(For Macintosh, see <i>Print Settings</i> on page 71.)
Poor print quality	See Improving the print quality on page 192.

Paper handling difficulties

Difficulties	Suggestions
The machine does not feed	If the paper tray is empty, load a new stack of paper in the paper tray.
paper.	If there is paper in the paper tray, make sure it is straight. If the paper is curled, straighten it. Sometimes it is helpful to remove the paper, turn the stack over and put it back in the paper tray.
	Reduce the amount of paper in the paper tray, and then try again.
	Make sure that MP Tray mode is not selected in the printer driver.
	Clean the paper pick-up roller.
	(See Cleaning the paper pick-up roller on page 164.)

Paper handling difficulties (continued)

Difficulties	Suggestions
The machine does not feed paper from the MP tray.	Make sure that MP Tray is selected in the printer driver.
	Fan the paper well and put the paper tray back in the machine.
How do I print on envelopes?	1 Open the back cover.
	2 Pull down the two gray levers to the envelope position.
	3 When you have finished printing envelopes, reset the two gray levers to their original positions and close the back cover.
	(See Printing on thick paper, labels and envelopes from the MP tray on page 15.)
	Load three envelopes at a time in the MP tray. Your application must be set to print the envelope size you are using. This is usually done in the Page Setup or Document Setup menu of your application.
	(See your application's manual for more information.)

Network difficulties

Cannot print over a network after completing the software	When the Cannot print to the networked printer. screen appears, follow the
	on-screen instructions. If the problem is not solved, see the Network User's Guide.
installation.	Make sure the interface is set to Auto on the machine (see how to change the interface on page 92).
The Brother software cannot be installed.	(Windows [®]) If the Security Software warning appears on the computer screen during the installation, change the Security Software settings to permit the Brother product setup program or other program to run.
	(Macintosh) If you are using a firewall function of anti-spyware or antivirus security software, temporarily disable it, and then install the Brother software.
Cannot connect to wireless network.	Investigate the problem using the WLAN Report. Print the WLAN Report in the menu selection:
(HL-L8350CDW)	Machine Info., Print WLANReport, and then press Go.
	For more details, see the Network User's Guide.

For other problems concerning using your machine on a Network, see the Network User's Guide.

Other difficulties

Difficulties	Suggestions
The machine will not turn on.	Adverse conditions on the power connection (such as lightning or a power surge) may have triggered the machine's internal safety mechanisms. Turn the machine off and unplug the power cord. Wait for ten minutes, then plug in the power cord and turn the machine on.
	If the problem is not solved, turn off the machine. If you are using a power breaker, disconnect it to make sure it is not the problem. Plug the machine's power cord directly into a different known working wall electrical socket and turn on the machine. If there is still no power, try a different power cable.
The machine cannot print EPS data that includes binary with the BR-Script3 printer driver.	(Windows[®]) To print EPS data, do the following:
	1 For Windows [®] 7 and Windows Server [®] 2008 R2:
	Click the 🚱 (Start) button > Devices and Printers.
	For Windows Vista [®] and Windows Server [®] 2008:
	Click the 🚳 (Start) button > Control Panel, Hardware and Sound > Printers.
	For Windows [®] XP and Windows Server [®] 2003: Click the Start button > Printers and Faxes .
	For Windows [®] 8 and Windows Server [®] 2012: Move your mouse to the lower right corner of your desktop. When the menu bar appears, click Settings > Control Panel . In the Hardware and Sound group, click View devices and printers .
	For Windows Server [®] 2012 R2: Click Control Panel on the Start screen. In the Hardware group, click View devices and printers.
	For Windows [®] 7, Windows [®] XP, Windows Vista [®] , Windows Server [®] 2003, Windows Server [®] 2008 and Windows Server [®] 2008 R2: Right-click the Brother HL-XXXX BR-Script3 icon and select Printer properties (Properties), and Brother HL-XXXX BR-Script3 if needed.
	For Windows [®] 8, Windows Server [®] 2012 and Windows Server [®] 2012 R2: Right-click the Brother HL-XXXX BR-Script3 icon, select Printer properties .
	3 From the Device Settings tab, choose TBCP (Tagged binary communication protocol) in Output Protocol .
	(Macintosh) If your machine is connected to a computer with a USB interface, you cannot print EPS data that includes binary. You can print the EPS data at the machine through a network. For installing the BR-Script3 printer driver through the network, visit the Brother Solutions Center at <u>http://solutions.brother.com/</u> .

Improving the print quality

If you have a print quality problem, print a test page first (see *Machine Info.* on page 89). If the printout looks good, the problem is probably not the machine. Check the interface cable or try the machine on another computer. If the printout has a quality problem, check the following steps first. And then, if you still have a print quality problem, check the chart below and follow the recommendations.

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.

- 1 To get the best print quality, we suggest using the recommended paper. Check that you are using paper that meets our specifications (see *Acceptable paper and other print media* on page 2).
- 2 Check that the drum unit and toner cartridges are installed correctly.

Examples of poor print quality	Recommendation
BBB<	Adjust the print margins on your application and reprint the job.
	Perform the colour calibration using the control panel or the printer driver (see Colour Calibration on page 111).
	Make sure toner save mode is off in the control panel or the printer driver.
B	Make sure that the media type setting in the driver matches the type of paper you are using (see Acceptable paper and other print media on page 2).
	Shake all four toner cartridges gently.
	Wipe the scanner windows with a dry, soft, lint-free cloth. (See Cleaning the inside of the machine on page 150.)
Colours are light or faint on the whole page	

Examples of poor print quality	Recommendation
Examples of poor print quality	 Recommendation Wipe the scanner windows with a dry, soft, lint-free cloth (see <i>Cleaning the inside of the machine</i> on page 150.) Make sure that foreign material such as a torn piece of paper, sticky note or dust is not inside the machine and around the drum unit and toner cartridge.
White streaks or bands down the page	
Coloured streaks or bands down the page	 Clean all four corona wires inside the drum unit by sliding the blue tabs (see <i>Cleaning the corona wires</i> on page 154). IMPORTANT Make sure the blue tabs of the corona wires are at the home position (1).
	 Replace the toner cartridge that matches the colour of the streak or band (see <i>Replacing the toner cartridges</i> on page 123). To identify the colour of the toner cartridge, visit <u>http://solutions.brother.com/</u> to view our FAQs and troubleshooting tips. Install a new drum unit (see <i>Replacing the drum unit</i> on page 128).

Examples of poor print quality	Recommendation
	 Identify the colour causing the problem and replace the toner cartridge that matches the colour of the line (see <i>Replacing the toner cartridges</i> on page 122). To identify the colour of the toner cartridge, visit <u>http://solutions.brother.com/</u> to view our FAQs and troubleshooting tips. Install a new drum unit (see <i>Replacing the drum unit</i> on page 128).
Coloured lines across the page	
White spots or hollow print	 Make sure that the media type setting in the printer driver matches the type of paper you are using (see Acceptable paper and other print media on page 2). Check the machine's environment. Conditions such as high humidity can cause hollow print (See the Product Safety Guide). If the problem is not solved after printing a few pages, the drum may have foreign material, such as glue from a label, stuck on the drum surface. Clean the drum unit (see <i>Cleaning the drum unit</i> on page 157). Install a new drum unit (see <i>Replacing the drum unit</i> on page 128). Identify the colour causing the problem and put in a new toner cartridge (see <i>Replacing the toner cartridges</i> on page 123). To identify the colour of the toner cartridge, visit <u>http://solutions.brother.com/</u> to view our FAQs and troubleshooting tips. Install a new drum unit (see <i>Replacing the drum unit</i> on page 128).
Blank page or some colours are missing	
94 mm 94 mm 94 mm	 If the problem is not solved after printing a few pages, the drum may have foreign material, such as glue from a label, stuck on the drum surface. Clean the drum unit (see <i>Cleaning the drum unit</i> on page 157). Install a new drum unit (see <i>Replacing the drum unit</i> on page 128).
Coloured spots at 94mm	

Examples of poor print quality	Recommendation
30 mm 30 mm B 30 mm B Coloured spots at 30mm	Identify the colour causing the problem and put in a new toner cartridge (see <i>Replacing the toner cartridges</i> on page 123). To identify the colour of the toner cartridge, visit <u>http://solutions.brother.com/</u> to view our FAQs and troubleshooting tips.
	 Check the machine's environment. Conditions such as high humidity and high temperatures may cause this print quality problem. Identify the colour causing the problem and put in a new toner cartridge (see Depletion the temperature of the temperature). To identify the colour of the temperature of temperature
	(see <i>Replacing the toner cartridges</i> on page 123). To identify the colour of the toner cartridge, visit <u>http://solutions.brother.com/</u> to view our FAQs and troubleshooting tips.
	Install a new drum unit (see Replacing the drum unit on page 128).
Toner scatter or toner stain	

Examples of poor print quality	Recommendation
The colour of your printouts is not what you expected	To improve the colour density, calibrate the colours using first the control panel and then the printer driver (see Colour Calibration on page 111).
	To adjust the print position of colours for sharper edges, perform the colour registration using the control panel (see Colour Registration on page 112).
	Make sure toner save mode is off in the control panel or the printer driver.
	See Toner Save Mode in <i>Advanced tab</i> on page 41 (For Windows [®] printer
	driver), <i>Advanced options</i> on page 58 (For Windows [®] BR-Script printer driver), <i>Advanced print settings</i> on page 73 (For Macintosh printer driver), <i>Printer Features</i> on page 77 (For Macintosh BR-Script printer driver).
	If the print quality is poor, clear the Improve Grey Colour check box of the printer driver. See Improve Grey Colour in Settings dialog box on page 36
	(for Windows [®] printer driver), <i>Advanced options</i> on page 58 (for Windows [®] BR-Script printer driver), <i>Advanced print settings</i> on page 73 (for Macintosh printer driver), or <i>Printer Features</i> on page 77 (for Macintosh BR-Script printer driver).
	If the print quality of the black portion is not what you expected, select the Enhance Black Printing check box of the printer driver. See Enhance
	Black Printing in <i>Settings dialog box</i> on page 36 (for Windows [®] printer
	driver), <i>Advanced options</i> on page 58 (for Windows [®] BR-Script printer driver), <i>Advanced print settings</i> on page 73 (for Macintosh printer driver), or <i>Printer Features</i> on page 77 (for Macintosh BR-Script printer driver).
	Identify the colour causing the problem and put in a new toner cartridge (see Replacing the toner cartridges on page 123). To identify the colour of the toner cartridge, visit <u>http://solutions.brother.com/</u> to view our FAQs and troubleshooting tips.
	Install a new drum unit (see Replacing the drum unit on page 128).
	Make sure that the machine is on a solid level surface.
	Perform the colour registration using the control panel (see Colour Registration on page 112).
	Install a new drum unit (see Replacing the drum unit on page 128).
	Install a new belt unit (see Replacing the belt unit on page 135).
Colour misregistration	

Examples of poor print quality	Recommendation
	Perform the calibration using the control panel or the printer driver (see Colour Calibration on page 111).
Additional address of the second seco	Clear the Improve Grey Colour check box of the printer driver.
B	Identify the colour causing the problem and put in a new toner cartridge (see Replacing the toner cartridges on page 122). To identify the colour of the toner cartridge, visit <u>http://solutions.brother.com/</u> to view our FAQs and troubleshooting tips.
	Install a new drum unit (see Replacing the drum unit on page 128).
Uneven density appears periodically across the page	
	Make sure toner save mode is off in the control panel or the printer driver.
	See Toner Save Mode in <i>Advanced tab</i> on page 41 (for Windows [®] printer
	driver), <i>Advanced options</i> on page 58 (for Windows [®] BR-Script printer driver), <i>Advanced print settings</i> on page 73 (for Macintosh printer driver), or <i>Printer Features</i> on page 77 (for Macintosh BR-Script printer driver).
	Change the print resolution.
	If you use a Windows printer driver, choose Improve Pattern Printing in Print Setting of the Basic tab (see Settings dialog box on page 36).
Missing image at thin line	
	Check the paper type and quality (see Acceptable paper and other print media on page 2).
	Make sure that the back cover is closed completely.
R	Make sure that the two grey levers inside the back cover are in the up positions.
	Make sure that the media type setting in the driver matches the type of paper you are using (see Acceptable paper and other print media on page 2).
Wrinkled	
	Check the machine's environment. Conditions such as low humidity and low temperatures may cause this print quality problem (see the Product Safety Guide).
R B	Make sure that the media type setting in the printer driver matches the type of paper you are using (see Acceptable paper and other print media on page 2).
	Make sure you lift up the two grey levers inside the back cover until they stop in the up position.
Ghost	Install a new drum unit (see Replacing the drum unit on page 128).

Examples of poor print quality	Recommendation
	Make sure you lift up the two grey levers inside the back cover until they stop in the up position.
	Make sure that the media type setting in the printer driver matches the type of paper you are using (see Acceptable paper and other print media on page 2).
	Choose Improve Toner Fixing mode in the printer driver.
	(For Windows, see Other Print Options on page 47.)
	(For Macintosh, see Print Settings on page 71.)
Poor fixing	If this selection does not provide enough improvement, change the printer driver setting in Media Type to a thick setting. If you are printing an envelope, choose Env. Thick in the media type setting.
	Choose Reduce Paper Curl mode in the printer driver.
	(For Windows, see Other Print Options on page 47.)
	(For Macintosh, see Print Settings on page 71.)
	If the problem is not solved, choose Plain Paper in the media type setting.
	If you are printing an envelope, choose Env. Thin in the media type setting.
	If you do not use the machine often, the paper may have been in the paper tray too long. Turn over the stack of paper in the paper tray. Also, fan the paper stack, and then rotate the paper 180° in the paper tray.
Curled or wavy	Store the paper where it will not be exposed to high temperatures and high humidity.
	Open the back cover (face-up output tray) to let the printed pages exit onto the face-up output tray.

Examples of poor print quality	Recommendation
	Make sure that the envelope levers inside the back cover are pulled down to the envelope position when you print envelopes.
BLOOPE Creases	

Machine Information

Checking the Serial Number

You can see the machine's Serial Number on the LCD.

- 1 Press ▲ or ▼ (+ or -) to choose Machine Info.. Press OK.
- 2 Press ▲ or ▼ (+ or -) to choose Serial No.. Press OK.

Default settings

The machine has three levels of default settings; the default settings have been set at the factory before shipment (see *Settings table* on page 88).

- Network
- Factory Reset
- Settings Reset

NOTE

- Changing the default settings does not modify the preset factory defaults.
- Page counters can never be changed.

Network default settings

To reset only the print server back to its default settings (by resetting all network information such as the password and IP address), follow these steps:

- Press ▲ or ▼ (+ or -) to choose Reset Menu. Press OK.
- 2 Press ▲ or ▼ (+ or -) to choose Network. Press OK.
- Output State 3 Press ▲ to choose Reset.
- 4 Press \blacktriangle to choose Yes. The machine will restart automatically.

Factory Reset

You can partially reset the machine back to its factory printer settings. The settings that will not be reset are the Interface, Local Language, Setting Lock, Secure Function Lock and the Network settings:

- Press ▲ or ▼ (+ or -) to choose Reset Menu. Press OK.
- 2 Press \blacktriangle or \forall (+ or -) to choose Factory Reset. Press OK.
 - 3 Press ▲ to choose Reset.

Settings Reset

This operation will reset all the machine's settings back to the one that were set at the factory before shipment.

Disconnect the network cable from the machine; otherwise the network settings (such as IP address) will not be reset.

- 2 Press ▲ or ▼ (+ or -) to choose Reset Menu. Press OK.
- 3 Press ▲ and Cancel at the same time. Press OK after Settings Reset appears.
- 4 Press ▲ to choose Reset.
- 5 Press A to choose Yes. The machine will restart automatically.

Machine specifications

General

Model		HL-L8250CDN	HL-L8350CDW		
Printer Type		Laser			
Print Method		Electrophotographic Laser Printe	er (single-pass)		
Memory Capacity	Standard	128 MB			
	Optional	1 slot: DDR2 SO-DIMM (144-pin) up to 256 MB		
LCD (liquid crystal disp	lay)	16 characters ×2line			
Power Source		220 - 240 V AC 50/60 Hz			
Power Consumption ¹	Peak	Approx. 1180 W			
(Average)	Printing	Approx. 520 W at 25 °C	Approx. 540 W at 25 °C		
	Printing (Quiet Mode)	Approx. 325 W	Approx. 355 W		
	Ready	Approx. 65 W at 25 °C			
	Sleep	Approx. 7.5 W			
	Deep Sleep	Approx. 0.9 W			
	Power Off ^{2 3}	Approx. 0.04 W			
Dimensions		□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	■ 486 mm →		
Weights (with supplies)		22.2 kg			

¹ USB connections to computer.

² Measured according to IEC 62301 Edition 2.0.

³ Power consumption varies slightly depending on the usage environment or part wear.

A

Appendix

Model			HL-L8250CDN	HL-L8350CDW
Noise Level	Sound Pressure	Printing	LpAm = 53.5 dB (A)	
		Ready	LpAm = 27.9 dB (A)	
		Printing (Quiet Mode)	LpAm = 51.1 dB (A)	LpAm = 50.6 dB (A)
	Sound Power ¹	Printing	LWAd = 6.75 B (A)	Lwad = 6.78 B (A)
		Ready	Lwad = 4.06 B (A)	
		Printing (Quiet Mode)	(Colour) LWAd = 6.30 B (A)	(Colour) LwAd = 6.33 B (A)
			(Mono) LWAd = 6.35 B (A)	(Mono) Lwad = 6.35 B (A)
Temperature		Operating	10 to 32 °C	i
		Storage	0 to 40 °C	
Humidity		Operating	20 - 80% (without conde	nsation)
		Storage	10 - 90% (without condensation)	

¹ Measured in accordance with the method described in RAL-UZ171.

Print media

Model			HL-L8250CDN	HL-L8350CDW	
Paper Input ¹	Paper Tray	Paper Type	Plain Paper, Thin Paper, Recycled Paper		
	(Standard)	Paper Size	A4, Letter, B5 (JIS), A5, A5 (Long Edge), A6, Executive, Legal, Folio		
		Paper Weight	60 to 105 gsm		
		Maximum Paper Capacity	Up to 250 sheets of 80 gsm I	Plain paper	
	Multi-purpose tray (MP tray)	Paper Type	Plain Paper, Thin Paper, Thi Recycled Paper, Bond Paper Env.Thick, Glossy Paper ²	ck Paper, Thicker Paper, r, Label, Envelope, Env.Thin,	
		Paper Size	Width: 76.2 to 215.9 mm		
			Length: 127 to 355.6 mm		
		Paper Weight	60 to 163 gsm		
		Maximum Paper Capacity	Up to 50 sheets of 80 gsm Plain paper		
	Paper Tray	Paper Type	Plain Paper, Thin Paper, Recycled Paper		
	(Optional)	Paper Size	A4, Letter, B5 (JIS), A5, Executive, Legal, Folio		
		Paper Weight	60 to 105 gsm		
		Maximum Paper Capacity	Up to 500 sheets of 80 gsm I	Plain paper	
Paper Output ¹	Face-Down Output Tray		Up to 150 sheets of 80 gsm Plain paper (face-down delivery to the face-down output paper tray)		
	Face-Up Output	Ггау	One sheet (face-up delivery	to the face-up output tray)	
2-sided	Automatic	Paper Type	Plain Paper, Thin Paper, Red	cycled Paper, Glossy Paper	
	2-sided Printing	Paper Size	A4		
		Paper Weight	60 to 105 gsm		

¹ For labels, we recommend removing the printed sheets from the output paper tray immediately after they exit the machine to avoid the possibility of smudging.

² For glossy paper, place only one sheet in the MP Tray.

Printer

Model			HL-L8250CDN	HL-L8350CDW	
Automatic 2-sided Print		Yes	Yes		
Emulation			PCL6, BR-Script3 (PostScript	[®] 3™)	
Resolution			600 × 600 dpi		
			2400dpi (2400 × 600) quality		
Print Speed ¹²	Single side print	Monochrome	Up to 28 ppm (A4 size)	Up to 30 ppm (A4 size)	
-			Up to 30 ppm (Letter size)	Up to 32 ppm (Letter size)	
		Full colour	Up to 28 ppm (A4 size)	Up to 30 ppm (A4 size)	
			Up to 30 ppm (Letter size)	Up to 32 ppm (Letter size)	
	2-sided Print	Monochrome	Up to 14 sides per minute (7 sheets per minute) (A4 or Letter size		
		Full colour	Up to 14 sides per minute (7 sh	neets per minute) (A4 or Letter size)	
First Print Time ³		(Colour) Less than 15 seconds at 23 °C / 230 V			
		(Mono) Less than 15 seconds at 23 °C / 230 V			

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

² Print speed may be slower when the machine is connected by wireless LAN.

³ From Ready mode and standard tray

Interface

Model	HL-L8250CDN	HL-L8350CDW				
USB	Hi-Speed USB 2.0 ¹²					
	We recommend using a USB 2.0 cable (Type	We recommend using a USB 2.0 cable (Type A/B) that is no more than 2 meters long.				
Ethernet ³	10BASE-T / 100BASE-TX					
	Use a straight-through Category 5 (or greater) twisted-pair cable.					
Wireless LAN ³	- IEEE 802.11b/g/n (Infrastructure Mode/Ad-hoc Mode)					
		IEEE 802.11g (Wi-Fi Direct)				

¹ Your machine has a Hi-Speed USB 2.0 interface. The machine can also be connected to a computer that has a USB 1.1 interface.

² Third party USB ports are not supported.

³ For detailed network specifications, see *Network (LAN)* on page 206 and see the Network User's Guide.

Network (LAN)

Model		HL-L8250CDN	HL-L8350CDW		
LAN		You can connect your machine to a network for Network Printing.			
		Also included is Brother BRAdmin L software.	Also included is Brother BRAdmin Light ^{1 2} Network Management software.		
Protocols	IPv4	ARP, RARP, BOOTP, DHCP, APIPA(Auto IP), WINS/NetBIOS name resolution, DNS Resolver, mDNS, LLMNR responder, LPR/LPD, Custom Raw Port/Port9100, IPP/IPPS, FTP Server, TELNET Server, HTTP/HTTPS server, TFTP client and server, SMTP Client, SNMPv1/v2c/ v3, ICMP, Web Services (Print), CIFS client, SNTP client			
	IPv6	NDP, RA, DNS resolver, mDNS, LLMNR responder, LPR/LPD, Custor Raw Port/Port9100, IPP/IPPS, FTP Server, TELNET Server, HTTP/HTTPS server, TFTP client and server, SMTP Client, SNMPv1/v2c/v3, ICMPv6, Web Services (Print), CIFS Client, SNTP Client			
Security Protocols	Wired	SMTP-AUTH, SSL/TLS (IPPS, HTT 802.1x (EAP-MD5, EAP-FAST, PEA IPSec	PS, SMTP), SNMP v3 P, EAP-TLS, EAP-TTLS), Kerberos,		
	Wireless	- SMTP-AUTH, SSL/TLS (IPPS, HTTPS, SMTP), SNMP v3 802.1x (LEAP, EAP-FAST, PEAP, EAP- TLS, EAP-TTLS), Kerberos, IPSec			
Wireless Network Security		-	WEP 64/128 bit, WPA-PSK (TKIP/AES), WPA2-PSK (AES)		
Wireless Network Setup	AOSS™	-	Yes		
Support Utility	WPS	-	Yes		

¹ (For Windows[®] users) Brother BRAdmin Light is available from the CD-ROM provided with the machine. (For Macintosh users) Brother BRAdmin Light is available as a download from <u>http://solutions.brother.com/</u>.

² (For Windows[®] users) If you want more advanced printer management, use the latest Brother BRAdmin Professional utility version that is available as a download from http://solutions.brother.com/.

Direct Print feature

Model	HL-L8250CDN	HL-L8350CDW			
Compatibility		PDF version 1.7 ¹ , JPEG, Exif+JPEG, PRN (created by Brother printer driver), TIFF (scanned by all Brother MFC or DCP models), XPS version 1.0			
Interface	USB direct interface				

¹ PDF data including a JBIG2 image file, a JPEG2000 image file or a transparency file is not supported.

Computer requirements

Computer P	latform &	PC Interfac	e		Processor	Hard Disk
Operating System Version		USB ¹	10/100 Base-TX (Ethernet)	Wireless 802.11b/g/n	_	Space to install
Windows®	Windows [®] XP Home	Printing			32bit (x86) or 64bit	80 MB
Operating System	Windows [®] XP Professional				(x64) processor	
	Windows [®] XP Professional x64 Edition				64bit (x64) processor	
	Windows Vista [®]				32bit (x86) or 64bit	
	Windows [®] 7				(x64) processor	
	Windows [®] 8					
	Windows Server [®] 2003	Printing			32bit (x86) or 64bit (x64) processor	
	Windows Server [®] 2003 x64 Edition				64bit (x64) processor	
	Windows Server [®] 2008				32bit (x86) or 64bit (x64) processor	
	Windows Server [®] 2008 R2				64bit (x64) processor	
	Windows Server [®] 2012				64bit (x64) processor	
	Windows Server [®] 2012 R2				64bit (x64) processor	
Macintosh	OS X v10.7.5	Printing			Intel [®] Processor	80 MB
Operating System	OS X v10.8.x]				
Jystem	OS X v10.9.x					

¹ Third party USB ports are not supported.

For the latest driver updates, visit http://solutions.brother.com/.

All trademarks, brand and product names are property of their respective companies.

Α

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 appropriate 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 appropriate for laser printers. Use paper that is appropriate for laser printers.

Basis weight

The basis weight of the paper for general use varies in different countries. We recommend using paper that weighs 75 to 90 gsm, 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. 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 using 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 using neutralized paper for this machine.

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.

Supplies

(For Oceania)

Model		HL-L8250CDN	HL-L8350CDW	Model Name	
Toner	Inbox	Black	Approx. 2,500 pages A4 or	Letter page ¹	-
Cartridge	Cyan, Magenta, Yellow		Approx. 1,500 pages A4 or Letter page ¹		-
	Standard	Black	Approx. 2,500 pages A4 or	Letter page ¹	TN-341BK
Mage		Cyan, Magenta, Yellow	Approx. 1,500 pages A4 or	Letter page ¹	TN-341C, TN-341M, TN-341Y
	High Yield	Black	Approx. 4,000 pages A4 or	Letter page ¹	TN-346BK
		Cyan, Magenta, Yellow	Approx. 3,500 pages A4 or	Letter page ¹	TN-346C, TN-346M, TN-346Y
Drum Unit		Approx. 25,000 pages A4 or Letter pages ²		DR-341CL	
Belt Unit		50,000 pages (5 pages per	job) ²	BU-320CL	
		20,000 pages (1 page per job) ²			
Waste Toner Box		Approx. 50,000 pages A4 o	or Letter pages ²	WT-320CL	

(For Middle East / Africa / Pakistan, Bangladesh, Nepal and Afghanistan)

Model		HL-L8250CDN	HL-L8350CDW	Model Name	
Toner	Inbox	Black	Approx. 2,500 pages A4 or Letter page ¹		-
Cartridge		Cyan, Magenta, Yellow	Approx. 1,500 pages A4 or	Letter page ¹	-
	Standard	Black	Approx. 2,500 pages A4 or Letter page ¹		TN-361BK
		Cyan, Magenta, Yellow	Approx. 1,500 pages A4 or	Letter page ¹	TN-361C, TN-361M, TN-361Y
	Super High Yield	Black, Cyan, Magenta, Yellow	Approx. 6,000 pages A4 or	Letter page ¹	TN-369BK, TN-369C, TN-369M, TN-369Y
Drum Unit		Approx. 25,000 pages A4 or Letter pages ²		DR-361CL	
Belt Unit		50,000 pages (5 pages per job) ²		BU-320CL	
		20,000 pages (1 page per job) ²			
Waste Toner Box		Approx. 50,000 pages A4 or Letter pages ²		WT-320CL	

(For Other countries)

Model		HL-L8250CDN	HL-L8350CDW	Model Name	
Toner	Inbox	Black	Approx. 2,500 pages A4 or Letter page ¹		-
Cartridge		Cyan, Magenta, Yellow	Approx. 1,500 pages A4 or Letter page ¹		-
	Standard	Black	Approx. 2,500 pages A4 or	Letter page ¹	TN-351BK
Cyan, Magenta, Yellow		Magenta,	Approx. 1,500 pages A4 or	Letter page ¹	TN-351C, TN-351M, TN-351Y
	Super High Yield	Black, Cyan, Magenta, Yellow	Approx. 6,000 pages A4 or	Letter page ¹	TN-359BK, TN-359C, TN-359M, TN-359Y
Drum Unit		Approx. 25,000 pages A4 or Letter pages ²		DR-351CL	
Belt Unit		50,000 pages (5 pages per job) ²		BU-320CL	
		20,000 pages (1 page per job) ²			
Waste Toner Box		Approx. 50,000 pages A4 or Letter pages ²		WT-320CL	

¹ Approximate cartridge yield is declared in accordance with ISO/IEC 19798.

² Life of supply is approximate and may vary by type of use.

NOTE

- Availability of toner cartridges differs from one country to another. Visit the Brother Solutions Center at http://solutions.brother.com/ or contact your local Brother office for further details.
- Brother does not recommend the use of consumables other than genuine Brother consumables.
- Your machine warranty may not cover any damage arising from the use of non genuine Brother consumables.

Important information for the toner cartridge life

Colour/Mono setting in the printer driver

Users can change the Colour/Mono settings on the printer driver as follows:

Auto

The machine checks the content of the document for colour. If colour is detected anywhere in the document, it will print the whole of the document using all the colours. In other words, it will mix some of the toners to help achieve every shade detected in the document, increasing the density of toner applied to the page. If no colour content is detected, it will print the document in monochrome.

The default setting on your machine is Auto.

NOTE

The machine's colour sensor is very sensitive and may perceive faded black text or an off-white background as colour. If you know that your document is black and white and you want to conserve colour toner, select **Mono** mode.

Colour

Whether the document contains colour or just monochrome, your machine will print the document using all the colours.

Mono

Select this mode if the document has only black and greyscale text and/or objects. If your document contains colour, this mode prints the document in 256 levels of grey using the black toner.

NOTE

If either the Cyan, Magenta or Yellow toner reaches the end of its life while printing a colour document, the print job cannot be completed. You can cancel your print job and choose to start the print job again in **Mono** mode, as long as Black toner is available.

For more information about the settings in the printer driver, see Chapter 2: Driver and Software.

Toner Cartridge Life

This product detects the life of the toner cartridges using the following two methods:

Detection by counting the dots of each colour that are necessary to create an image

Detection by counting the rotations of the developer roller

This product has a function that will count the dots of each colour used to print every document and the rotations of each toner cartridge's developer roller. The print operation will stop when either one of the upper limits are reached. The upper limit is set above the number of dots or rotations that would be required for the cartridge to perform consistently with its advertised page yield. This function is intended to reduce the risk of poor print quality and damage to the machine.

There are two messages that indicate when the toner nears or reaches its life end: Toner Low and Replace Toner.

Appendix

Toner Low is displayed on the LCD when the number of dots or rotations of the developer roller nears its maximum count: Replace Toner is displayed on the LCD when the number of dots or rotations of the developer roller reaches its maximum count.

Colour Correction

The number of developer roller rotations that are counted may not only be for normal operations such as printing, but also for machine adjustments, such as Colour Calibration and Colour Registration.

Colour Calibration (Adjustment of Colour Density)

To obtain stable print quality, the density of each toner cartridge needs to be maintained at a fixed value. If the density balance between the colours cannot be kept, the tint becomes unstable, and accurate colour reproduction becomes unavailable. The toner density can change due to chemical changes to the toner that affect its electrical charge, deterioration of the developer unit, and temperature and humidity levels in the device. When calibration occurs, the density level adjustment test patterns are printed on the belt unit.

Calibration is mainly performed at the following times:

- When the user manually selects calibration from the operation panel or the printer driver. (Please perform calibration if colour density needs to be improved.)
- When a used toner cartridge is replaced with a new one.
- When the printer senses that the ambient temperature and humidity have changed.
- When a specified number of printed pages is reached.

Colour Registration (Correction of Colour Position)

In this device, the drum unit and developer unit are prepared for black (K), yellow (Y), magenta (M), and cyan (C), respectively. Four colour images are combined into one image, and therefore colour registration errors (i.e., how the four colour images align) might occur. When registration errors occur, registration correction test patterns are printed on the belt unit.

Registration is mainly performed at the following times:

- When the user manually selects registration from the operation panel. (Please perform registration if a colour registration error needs to be corrected.)
- When a specified number of printed pages is reached.

Brother numbers

IMPORTANT

For technical and operational help, you must call Brother customer service or your local Brother dealer.

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. 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/

Check here for Brother driver updates.

Customer Service

Visit <u>http://www.brother.com/</u> 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 <u>http://www.brother.com/</u> by selecting your country.

Internet Addresses

Brother Global Web Site: http://www.brother.com/

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

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For Australia Only:

Support – For technical support of your Brother Product other than what you can resolve through the User's Guide, please visit our Web Site or Solutions Web Site (see below) to find an answer to FAQs/Troubleshooting, locating Drivers & Software.

Alternatively, please contact the Product Support Centre for any customer care/technical support enquiry.

To contact Brother International (Aust) Pty Ltd for support on a Brother product please see the details listed below:

Product Support Centre: Australia	
Brother International (Aust) Pty Ltd	
Phone:	02 8875 6000
Fax:	02 9870 7223
Solutions Site:	http://solutions.brother.com/
Web Site:	www.brother.com.au
Email:	To submit an e-mail enquiry, visit <u>www.brother.com.au</u> go to Service and Support area and follow the prompts.

Our Technical Support Consultants are available 5 days a week by phone during the hours of 8.30am to 5.00pm (EST/EDST) Monday to Friday.

For New Zealand Only:

For technical support for your Brother Product please refer to this user guide and the FAQ's available on our Brother Solutions website, <u>http://solutions.brother.com/</u>

Drivers, software, user guides and technical references are all available on our Brother Solutions website. If you require further assistance please contact Brother International (NZ) Limited on the following numbers

0800 454 677
0800 329 111
0900 552 152
0800 652 152
0800 632 467
0800 837 822

Our Technical Support Consultants are available 7 days a week by phone during the hours of 8.30am to 5pm Monday to Friday and 9am to 5pm Saturday and Sunday.

Email Assistance

Please visit www.brother.co.nz and submit a helpdesk enquiry from our Service and Support page.

Web Assistance

Please visit <u>www.brother.co.nz</u> under Service and Support for Frequently Asked Questions, Driver downloads, Warranty information and Service Centres.