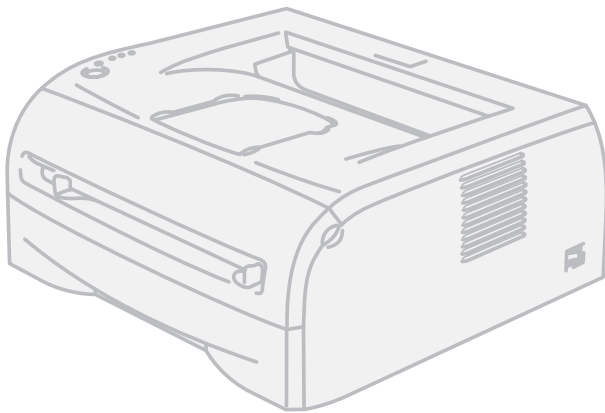


Brother Laser Printer

USER'S GUIDE



HL-2035

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 printer.

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

Please read this User's Guide thoroughly before you use the printer. Keep the CD-ROM in a convenient place so you can use it quickly if you need to.

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

Note: Not all models are available in all countries.

Using this guide

Symbols used in this guide

We use the following icons throughout this User's Guide:



Warnings tell you what to do to prevent possible personal injury.



Electrical Hazard icons alert you to a possible electrical shock.



Hot Surface icons warn you not to touch machine parts that are hot.



Cautions specify procedures you must follow or avoid to prevent possible damage to the printer or other objects.



Improper Setup icons alert you to devices and operations that are not compatible with the printer.



Notes tell you how you should respond to a situation that may arise or give tips about how the operation works with other features.

Safety precautions

To use the printer safely

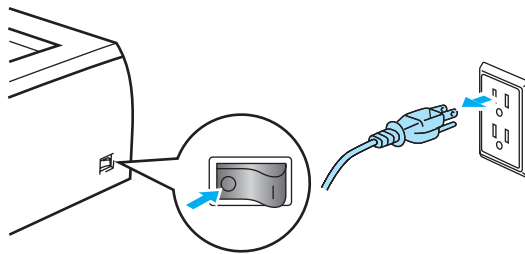
Please keep these instructions for later reference and read them before attempting any maintenance.



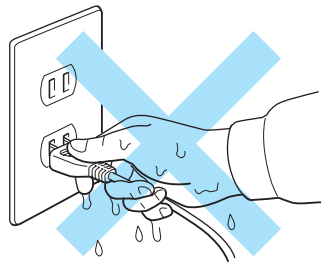
WARNING



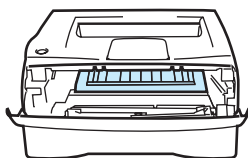
There are high voltage electrodes inside the printer. Before you clean the inside of the printer, make sure you have turned off the power switch and unplugged the printer from the AC power outlet.



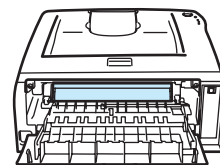
Do not handle the plug with wet hands. Doing this might cause an electrical shock.



After you have just used the printer, some internal parts of the printer are extremely hot. When you open the front or back cover of the printer, never touch the shaded parts shown in the illustration.



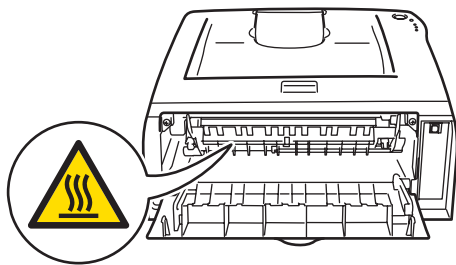
Inside the printer
(Front View)



Open the back cover
(Back View)



The fuser unit is marked a caution label. Please do not remove or damage the label.



Do not use flammable substances, any type of spray or organic solvent/liquids containing alcohol/ammonia to clean the inside or outside of the machine. Doing this may cause a fire or electrical shock.

Do not use a vacuum cleaner to clean up scattered toner. Doing this might cause the toner dust to ignite inside the vacuum cleaner, potentially starting a fire. Please carefully clean the toner dust with a dry, lint-free cloth and dispose of it according to local regulations.

CAUTION

Cleaning the outside of the printer:

- Make sure you have turned off the power switch and unplugged the printer from the AC power outlet.
- Use neutral detergents. Cleaning with volatile liquids such as thinner or benzine will damage the outside surface of the printer.
- Do not use cleaning materials that contain ammonia.

Trademarks

The Brother logo is a registered trademark of Brother Industries, Ltd.

Apple, the Apple Logo, Macintosh and TrueType are registered trademarks of Apple Inc. in the United States and other countries.

Windows Vista is either a registered trademark or a trademark of Microsoft Corporation in the United States and other countries.

Microsoft, MS-DOS, Windows and Windows Server are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Citrix and MetaFrame are registered trademarks of Citrix Systems, Inc. in the United State.

All other terms and brand and product names mentioned in this User's Guide are registered trademarks of their respective companies.

Compilation and Publication Notice

Under the supervision of Brother Industries Ltd., this manual has been compiled and published, covering the latest product's descriptions and specifications.

The contents of this manual and the specifications of this product are subject to change without notice.

Brother reserves the right to make changes without notice in the specifications and materials contained herein and shall not be responsible for any damages (including consequential) caused by reliance on the materials presented, including but not limited to typographical and other errors relating to the publication.

© 2008 Brother Industries Ltd.

Shipment of the Printer

If for any reason you must ship your Printer, carefully package the Printer to avoid any damage during transit. We recommend that you save and use the original packaging. The Printer should also be adequately insured with the carrier.

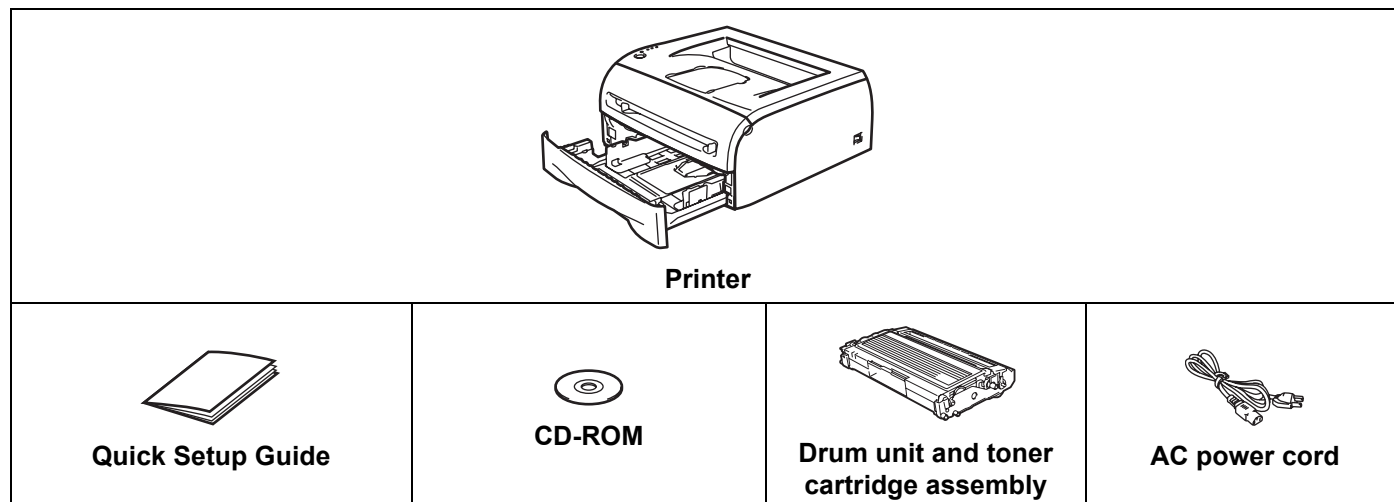
Table of Contents

1	About this printer	1
	What is in the box?	1
	Interface cable	1
	Front view	2
	Back view	2
	Positioning the printer	3
	Power supply	3
	Environment	3
2	Printing Methods	4
	What kind of paper can I use?	4
	Type and size of paper	4
	Recommended paper	5
	Printable area	6
	Printing methods	7
	Printing on plain paper, bond paper and transparencies	7
	Printing on thick paper, labels and envelopes	13
	Duplex Printing	17
	Guidelines for printing on both sides of the paper	17
	Printing on both sides of the paper (manual duplex printing)	17
3	Driver and software	20
	Printer driver	20
	For Windows®	22
	For Macintosh®	29
	Uninstalling the printer driver	31
4	Control panel	33
	LEDs (Light Emitting Diodes)	33
	Service call indications	37
	Control panel button (Go button)	39
	Print a test page	40
	Print a Printer Settings page	41
5	Routine maintenance	42
	Replacing the consumable items	42
	Consumables	42
	Toner cartridge	43
	Drum unit	48
	Cleaning	52
	Cleaning the outside of the printer	52
	Cleaning the inside of the printer	53
	Cleaning the corona wire	56

6	Troubleshooting	58
	Identifying your problem	58
	Error messages in the Status Monitor	59
	Error message printout	60
	Paper handling	60
	Paper jams and how to clear them	61
	Other problems	67
	For Macintosh® with USB	67
	Improving the print quality	67
	Solving print problems	72
A	Appendix	73
	Printer specifications.....	73
	Engine	73
	Controller	73
	Software	74
	Control panel	74
	Paper handling	74
	Media specifications	75
	Supplies.....	75
	Dimensions / weights.....	75
	Other.....	76
	System Requirements	76
	Important information for choosing your paper.....	77
B	Appendix (For Europe and Other Countries)	80
	Brother Numbers	80
	Important information: Regulations.....	81
	Radio interference (220 to 240 volt model only).....	81
	IEC 60825-1 specification (220 to 240 volt model only)	81
	Internal laser radiation	82
	EU Directive 2002/96/EC and EN50419.....	82
	IMPORTANT - For Your Safety	83
	EC Declaration of Conformity	84
C	Index	85

What is in the box?

When you unpack the printer, check that you have all of the following parts.



Note

The AC power cord may be slightly different than the one in the illustration above, depending on which country you bought the printer in.

Interface cable

The interface cable is not a standard accessory. Please purchase the appropriate interface cable for the interface you intend to use (USB, Parallel or Network).

■ USB cable

Do not use a USB interface cable that is longer than 6 feet (2.0 meters).

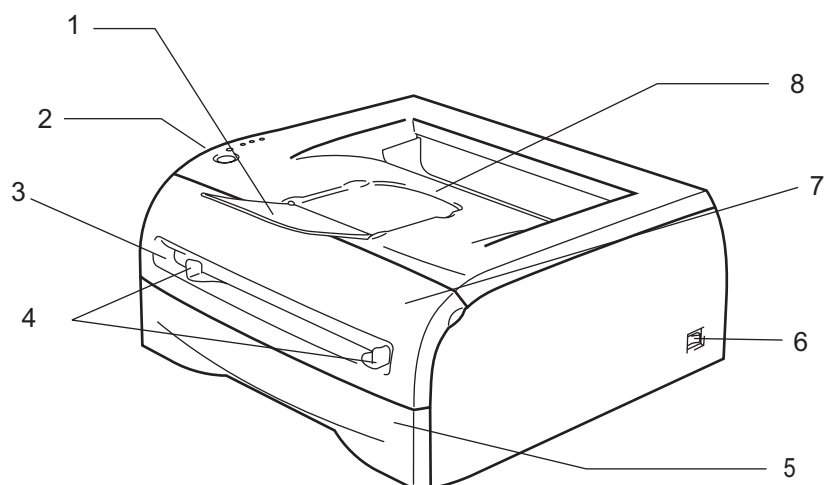
Do not connect the USB cable to a non-powered hub or a Mac® keyboard.

When you use a USB cable, make sure you connect it to the USB connector of your PC.

USB is not supported under Windows® 95 or Windows NT® 4.0.

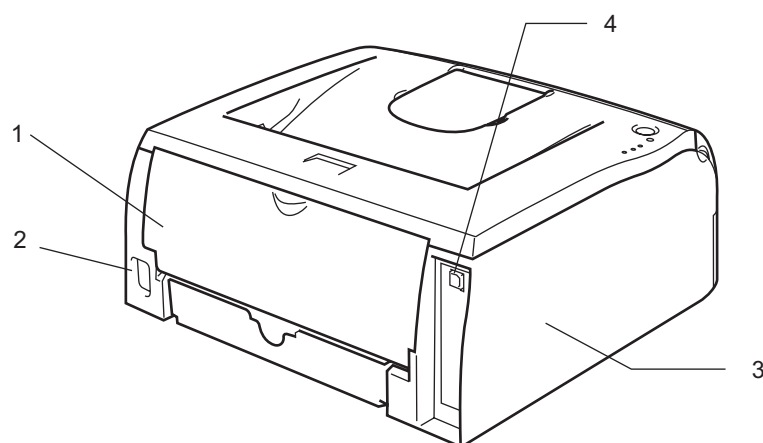
Front view

1



- 1 Face-down Output Tray Support Flap (Support Flap)
- 2 Control Panel
- 3 Manual Feed slot
- 4 Manual Feed Paper Guides
- 5 Paper Tray
- 6 Power Switch
- 7 Front Cover
- 8 Face-down Output Tray

Back view



- 1 Back Cover
- 2 AC Power Connector
- 3 Side Cover
- 4 USB Interface Connector

Positioning the printer

Please read the following before you use the printer.

Power supply

Use the printer within the recommended power range.

Power source:	USA and Canada:	AC 110 to 120 V, 50/60 Hz
	Europe and Australia:	AC 220 to 240 V, 50/60 Hz

The power cord, including extensions, should not be longer than 5 meters (16.5 feet).

Do not share the same power circuit with other high-power appliances, such as an air conditioner, copier, shredder and so on. If you cannot avoid using the printer with these appliances, we recommend that you use a voltage transformer or a high-frequency noise filter.

Use a voltage regulator if the power source is not stable.

Environment

- You should setup the printer near a power outlet that you can easily reach, so that it can be easily unplugged from the power outlet if there is an emergency.
- Only use the printer within the following ranges of temperature and humidity:
 - Temperature: 10 °C to 32.5 °C (50 °F to 90.5 °F)
 - Humidity: 20% to 80% (without condensation)
- You should use the printer in a well-ventilated room.
- Put the printer on a flat, horizontal surface.
- Keep the printer clean. Do not put the printer in a dusty place.
- Do not put the printer where the ventilation hole of the printer is blocked. Keep a gap of approximately 100 mm (4 in.) between the ventilation hole and the wall.
- Do not put the printer in direct sunlight. If you have to put it near a window, use a blind or a heavy curtain to protect the printer from direct sunlight.
- Do not put the printer near devices that contain magnets or generate magnetic fields.
- Do not subject the printer to strong physical shocks or vibrations.
- Do not expose the printer to open flames, salty or corrosive gasses.
- Do not put objects on top of the printer.
- Do not put the printer near an air conditioner.
- Keep the printer horizontal when you carry it.

What kind of paper can I use?

Type and size of paper

The printer loads paper from the installed paper tray, or the manual feed slot.

The names for the paper trays in the printer driver and this guide are as follows:

Paper tray	Tray 1
Manual feed slot	Manual

When looking at this page on the CD-ROM, you can jump to the page for each printing method by clicking ⓘ in the table.

Media type	Tray 1	Manual	Select the Media type from the printer driver
Plain paper 60 g/m ² to 105 g/m ² (16 to 28 lb)	ⓘ	ⓘ	Plain Paper
Recycled paper	ⓘ	ⓘ	Recycled Paper
Bond paper	ⓘ	ⓘ	Bond Paper
Thick paper 105 g/m ² to 161 g/m ² (28 to 43 lb)		ⓘ	Thick Paper or Thicker Paper
Transparency	ⓘ Up to 10 sheets A4 or Letter	ⓘ A4 or Letter	Transparencies
Labels		ⓘ A4 or Letter	Thicker Paper
Envelopes		ⓘ	Envelopes Env. Thin Env. Thick

	Tray 1	Manual
Paper size	A4, Letter, Legal ¹ , B5 (JIS), B5 (ISO), Executive, A5, A6, B6 (ISO)	Width: 69.9 to 215.9mm (2.75 to 8.5 in.) Length: 116 to 406.4 mm (4.57 to 16 in.)
Number of sheets	250 sheets (80 g/m ² or 21 lb)	Single sheet

¹ Legal paper is not available in some regions.

Recommended paper

	Europe	USA
Plain paper	Xerox Premier 80 g/m ² Xerox Business 80 g/m ² Modo DATACOPY 80 g/m ² IGEPA X-Press 80 g/m ²	Xerox 4200DP 20 lb Hammermill Laser Paper 24 lb
Recycled paper	Xerox Recycled Supreme 80 g/m ²	N/A
Transparency	3M CG3300	3M CG3300
Labels	Avery laser label L7163	Avery laser label #5160

- Before you buy a lot of paper, please test a small quantity to make sure that the paper is suitable.
- Use paper that is made for plain-paper copying.
- Use paper that is 75 to 90 g/m² (20 to 24 lb).
- Use neutral paper. Do not use acidic or alkaline paper.
- Use long-grain paper.
- Use paper with a moisture content of approximately 5%.
- This printer can use recycled paper that meets DIN 19309 specification.

CAUTION

Do not use ink jet paper, because it might cause a paper jam or damage your printer.



Note

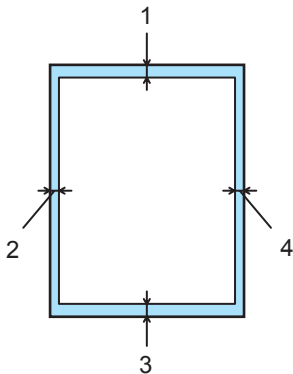
If you use paper other than the ones recommended, a paper jam or misfeeding may occur in the printer.

To help you choose which paper to use with this printer, see *Important information for choosing your paper* on page 77.

Printable area

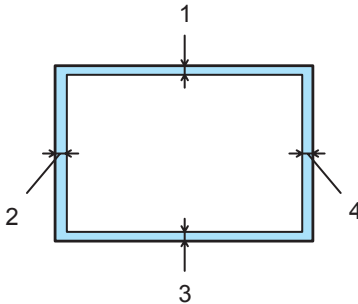
The edges of the paper that cannot be printed on are shown below.

Portrait



	A4	Letter	Legal	B5 (ISO)	Executive	A5	A6	B6
1	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)
2	6.01 mm (0.24 in.)	6.35 mm (0.25 in.)	6.35 mm (0.25 in.)	6.01 mm (0.24 in.)	6.35 mm (0.25 in.)	6.01 mm (0.24 in.)	6.01 mm (0.24 in.)	6.01 mm (0.24 in.)
3	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)
4	6.01 mm (0.24 in.)	6.35 mm (0.25 in.)	6.35 mm (0.25 in.)	6.01 mm (0.24 in.)	6.35 mm (0.25 in.)	6.01 mm (0.24 in.)	6.01 mm (0.24 in.)	6.01 mm (0.24 in.)

Landscape



	A4	Letter	Legal	B5 (ISO)	Executive	A5	A6	B6
1	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)
2	5.0 mm (0.19 in.)	5.08 mm (0.2 in.)	5.08 mm (0.2 in.)	5.0 mm (0.19 in.)	5.08 mm (0.2 in.)	5.0 mm (0.19 in.)	5.0 mm (0.19 in.)	5.0 mm (0.19 in.)
3	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)	4.23 mm (0.16 in.)
4	5.0 mm (0.19 in.)	5.08 mm (0.2 in.)	5.08 mm (0.2 in.)	5.0 mm (0.19 in.)	5.08 mm (0.2 in.)	5.0 mm (0.19 in.)	5.0 mm (0.19 in.)	5.0 mm (0.19 in.)

Printing methods

Printing on plain paper, bond paper and transparencies

You can print on plain paper, bond paper or transparencies from the paper tray or manual feed slot. For the paper you want to use, see *What kind of paper can I use?* on page 4.

Printing on plain paper, bond paper or transparencies from the paper tray



Note

Do not put more than 10 transparencies in the paper tray, if you print on transparencies.

- 1 Choose the following from the printer driver:

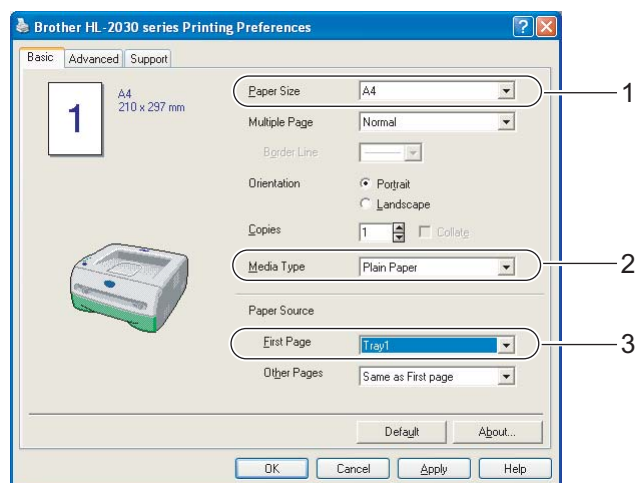
Paper Size (1)

Media Type (2)

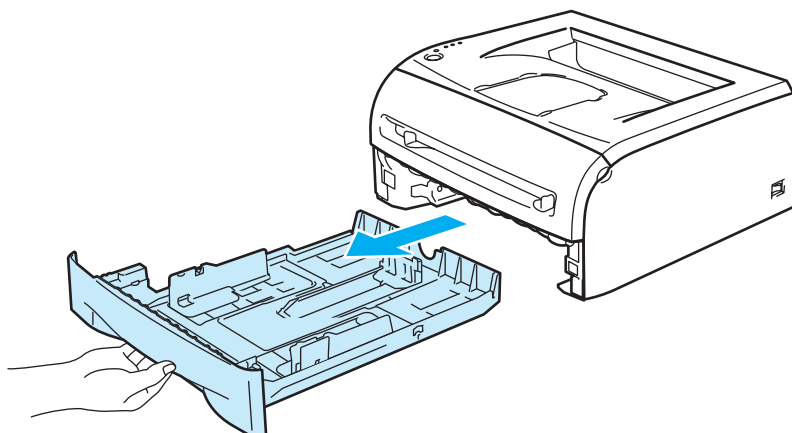
Paper Source (3)

and any other settings.

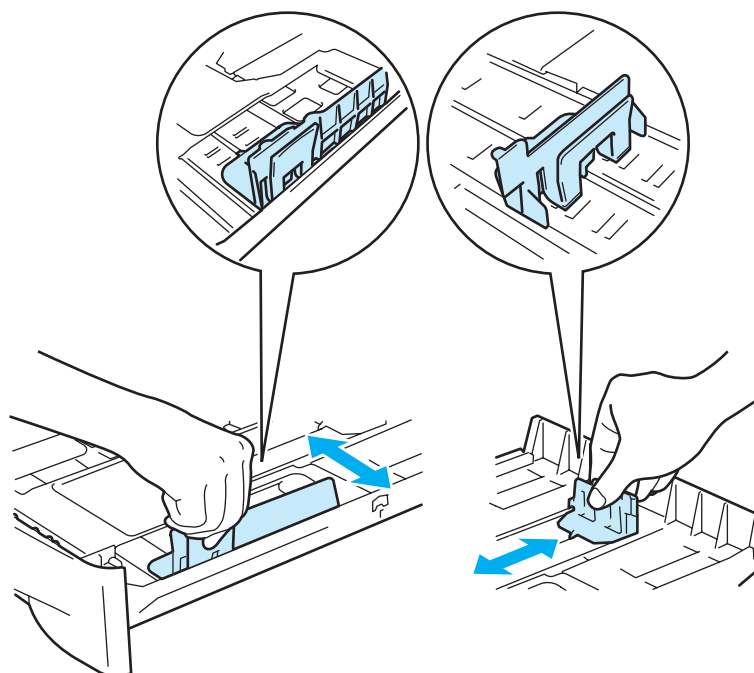
■ Windows® printer driver



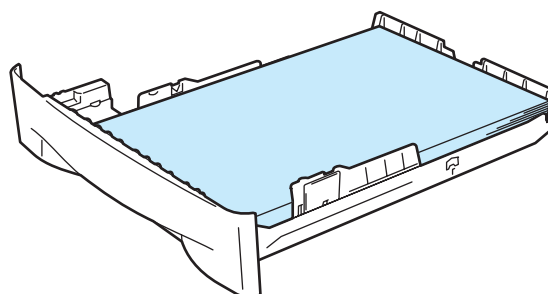
- 2 Pull the paper tray completely out of the printer.



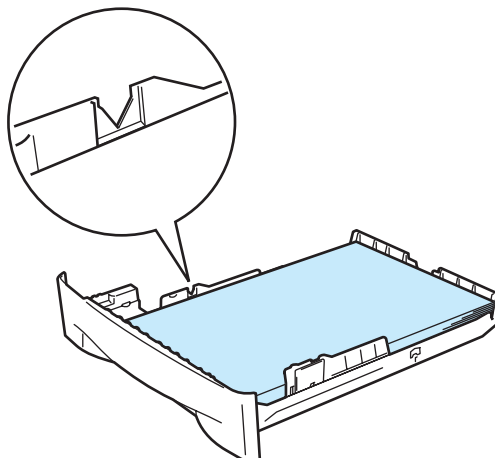
- 3 While pressing the blue paper-guide release lever, slide the paper guides to fit the paper size. Check that the guides are firmly in the slots.



- 4 Put paper in the tray.



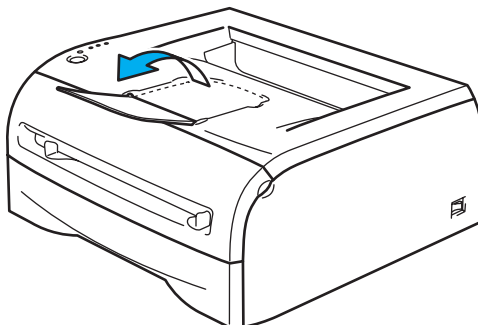
- 5 Check that the paper is below the maximum paper mark (▼).

**Note**

- Paper jams may occur if you put more than 250 sheets (80 g/m² or 21 lb) of plain or bond paper in the paper tray at any one time.
- Paper jams may occur if you put more than 10 transparencies in the paper tray at any one time.
- When you use pre-printed paper, put the side that is going to be printed on (blank side) face down, with the top of the paper at the front of the tray.

- 6 Put the paper tray firmly back in the printer. Check that it is completely in the printer.

- 7 Lift up the support flap to prevent paper from sliding off the face-down output tray.

**Note**

If you choose not to lift up the output tray support flap, we recommend that you remove printed pages immediately after they come out of the printer.

- 8 Send the print data to the printer.

**Note**

If you print on transparencies, remove each transparency immediately. Stacking the printed transparencies may cause a paper jam or the transparency to curl.

Printing on plain paper, bond paper or transparencies from the manual feed slot



Note

The printer automatically turns on the Manual Feed mode when you put paper in the manual feed slot.

- 1 Choose the following from the printer driver:

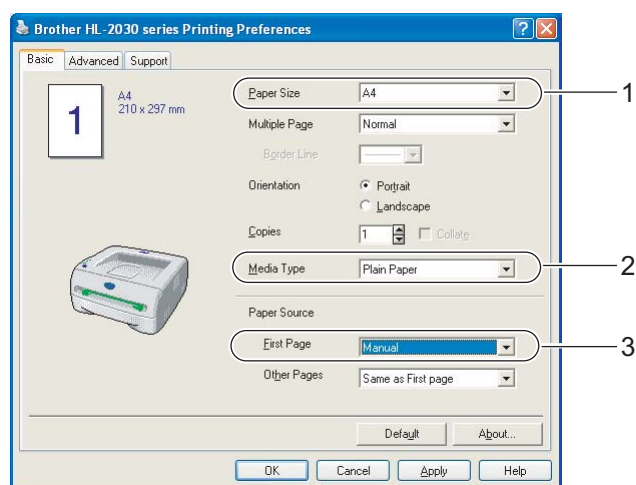
Paper Size (1)

Media Type (2)

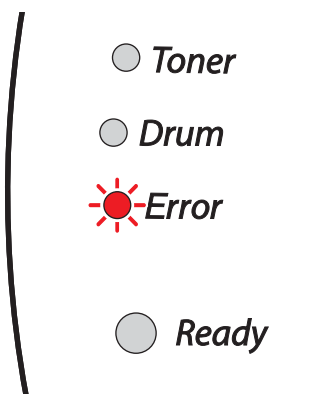
Paper Source (3)

and any other settings.

■ Windows® printer driver



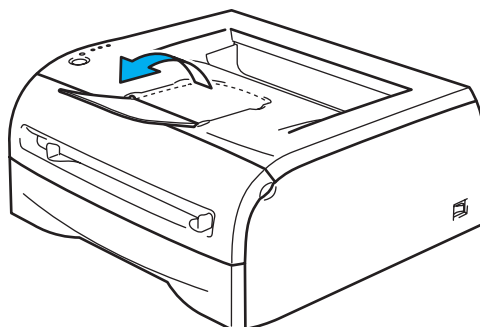
- 2 Send the print data to the printer.



Note

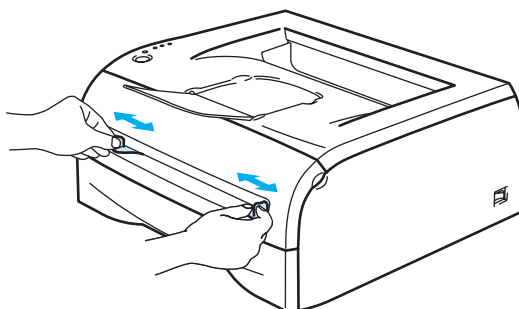
A **No paper fed manual feed slot** status is shown by the control panel LEDs until you put a sheet of paper or a transparency in the manual feed slot.

- 3 Lift up the support flap to prevent paper from sliding off the face-down output tray.

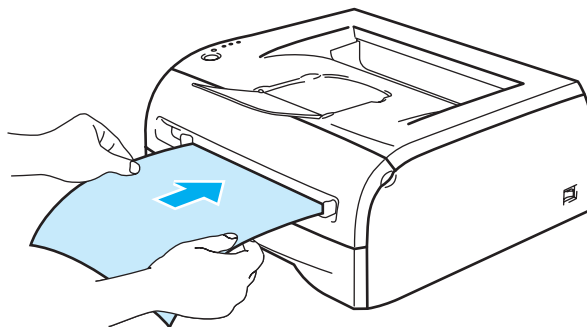
**Note**

If you choose not to lift up the output tray support flap, we recommend that you remove printed pages as soon as they come out of the printer.

- 4 Using both hands, slide the manual feed slot paper guides to the width of the paper that you are going to use.



- 5 Using both hands, put one piece of paper or one envelope in the manual feed slot until the front edge of the paper or envelope touches the paper feed roller. When you feel the machine pull in the paper, let go.

**Note**

- Put the paper into the manual feed slot with the side to be printed face up.
- Make sure that the paper or transparency is straight and in the proper position on the manual feed slot. If it is not, the paper or the transparency may not be fed properly, resulting in a skewed printout or a paper jam.
- Do not put more than one piece of paper in the manual feed slot at any one time, as it may cause a jam.
- If you put any Media (paper, transparency and so on) in the manual feed slot before the printer is in the Ready state, the media may be ejected without being printed on.

- 6 After the printed page comes out of the printer, put in the next sheet of paper or the transparency as in Step 5 above. Repeat for each page that you want to print.

**Note**

If you print on transparencies, remove each transparency immediately after printing. Stacking the printed transparencies may cause a paper jam or the transparency to curl.

Printing on thick paper, labels and envelopes



Note

The printer automatically turns on the Manual Feed mode when you put paper in the manual feed slot.

When you select the paper you want to use, see *What kind of paper can I use?* on page 4.

If you print on envelopes, see *Types of envelopes to avoid* on page 16.

Printing on thick paper, labels and envelopes from the manual feed slot

- 1 Choose the following from the printer driver:

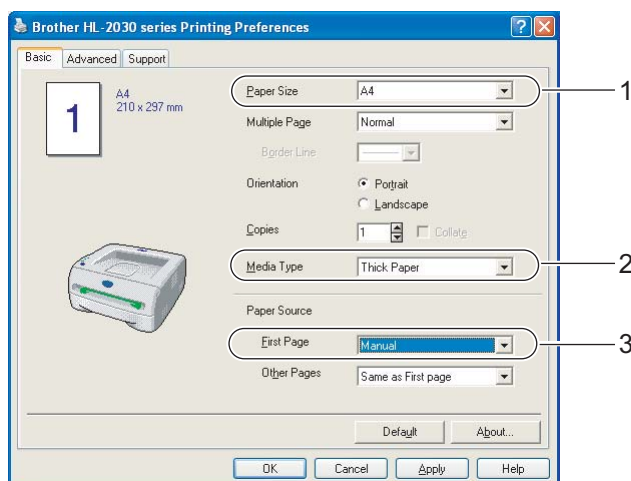
Paper Size (1)

Media Type (2)

Paper Source (3)

and any other settings.

■ Windows® printer driver

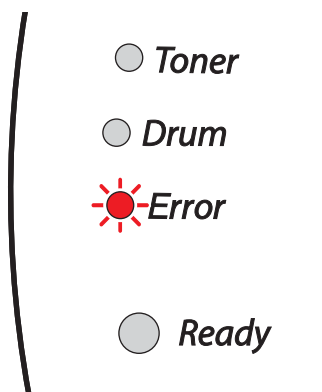


Note

For envelope users

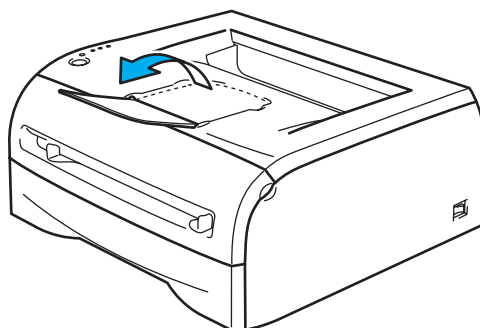
- When you use Envelope #10, select **Com-10** from Paper Size in the printer driver.
- For other envelopes which are not in the selection of the printer driver, such as Envelope #9 or Envelope C6, use **User Defined...** Size. For more information on the envelope size, see *Paper size* on page 79.

- 2 Send the print data to the printer.

**Note**

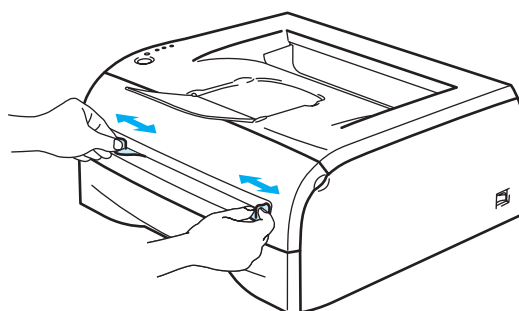
A **No paper fed manual feed slot** status is shown by the control panel LEDs until you put a sheet of paper or an envelope in the manual feed slot.

- 3 Lift up the support flap to prevent paper from sliding off the face-down output tray.

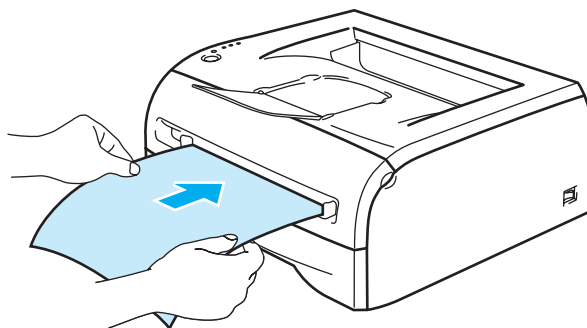
**Note**

If you choose not to lift up the output tray support flap, we recommend that you remove printed pages as soon as they come out of the printer.

- 4 Using both hands, slide the manual feed slot paper guides to the width of the paper that you are going to use.



- 5 Using both hands, put one piece of paper or one envelope in the manual feed slot until the front edge of the paper or envelope touches the paper feed roller. When you feel the machine pull in the paper, let go.

**Note**

- Put the paper into the manual feed slot with the side to be printed face up.
- Make sure that the paper or the envelope is straight and in the proper position in the manual feed slot. If it is not, the paper or envelope may not be fed properly, resulting in a skewed printout or a paper jam.
- Do not put more than one piece of paper or one envelope in the manual feed slot at any one time, as it may cause a jam.
- If you put any Media (paper, envelope and so on) in the manual feed slot before the printer is in the Ready state, the media may be ejected without being printed on.

- 6 After the printed page comes out of the printer, put in the next sheet of paper or the envelope as in Step 5 above. Repeat for each page that you want to print.

**Note**

- Envelope joints that are sealed by the manufacturer should be secure.
- All sides of the envelope should be properly folded without wrinkles or creases.
- Remove each sheet or envelope immediately after printing. Stacking the sheets or envelopes may cause the paper to jam or curl.

Types of envelopes to avoid

Do not use envelopes:

- that are damaged, curled, wrinkled, or unusual shape
- that are extremely shiny or textured
- with clasps, 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 when put in a pile
- that are made of paper that weighs more than the paper weight specifications for the printer
- that have been badly made, with edges that are not straight or consistently square
- with windows, holes, cutouts or perforations



IF YOU USE ANY OF THE TYPES OF ENVELOPES LISTED ABOVE, THEY MAY DAMAGE YOUR PRINTER. THIS DAMAGE IS NOT COVERED UNDER ANY BROTHER WARRANTY OR SERVICE AGREEMENT.



Note

- Do not put different types of paper in the paper tray at the same time because it may cause paper jams or misfeeds.
- Do not print envelopes using duplex printing.
- For proper printing, you must choose the same paper size from your software application as the paper in the tray.
- See *What kind of paper can I use?* on page 4.

Most envelopes will be suitable for your printer. However, some envelopes will have feed and print-quality problems because of the way they have been made. A suitable envelope should have edges with straight, well-creased folds and the leading edge should not be thicker than two pieces of paper. The envelope should lie flat and not be of baggy or flimsy construction. You should buy quality envelopes from a supplier who understands that you will be using the envelopes in a laser printer. Before you print a lot of envelopes, test one to make sure that the print results are what you want.



Note

Brother will not recommend a particular envelope because envelope manufacturers may change the envelope specifications. You are responsible for the quality and performance of the envelopes you use.

Duplex Printing

The supplied printer drivers for Windows® 98/Me, Windows® 2000/XP and Windows Vista® all allow manual duplex printing. 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 then put it back in the paper tray or the manual feed slot.
- If the paper is not feeding properly, it may be curled. Remove the paper and straighten it.
- When you use the manual duplex function, it is possible that there may be paper jams or poor print quality. If there is a paper jam, see *Paper jams and how to clear them* on page 61.

Printing on both sides of the paper (manual duplex printing)

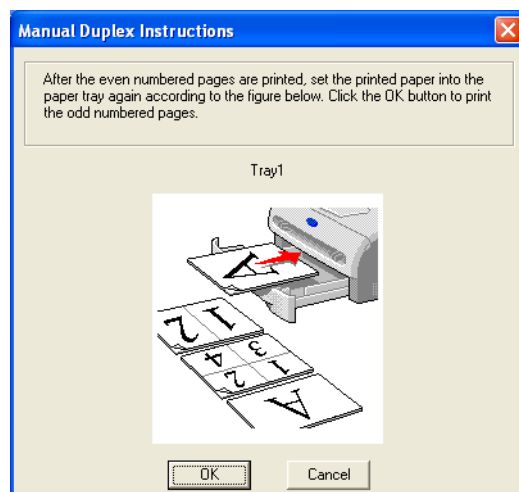
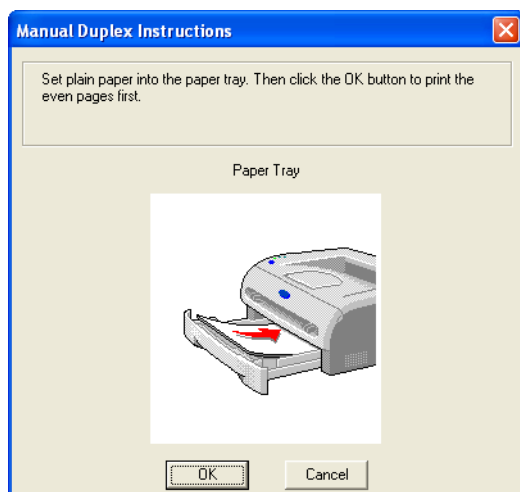


Note

You should use plain paper and recycled paper. Do not use bond paper.

Manual duplex printing from the paper tray

- 1 From the **Advanced** tab choose the **Manual Duplex** printing mode, and from the **Basic** tab choose the **Paper Source** to be Auto Select or Tray1.
- 2 The printer will automatically print all the even-numbered pages on one side of the paper first.
- 3 Remove the printed even-numbered pages from the output tray and put them back in the paper tray, placing the paper with the side that is going to be printed on (blank side) face down. Follow the instructions on the computer screen.



- 4 The printer will now automatically print all the odd-numbered pages on the other side of the paper.

**Note**

When you put paper in the paper tray, first empty the tray then put the printed pages in the tray, with the printed side face up. (Do not add the printed pages to the top of a stack of unprinted paper.)

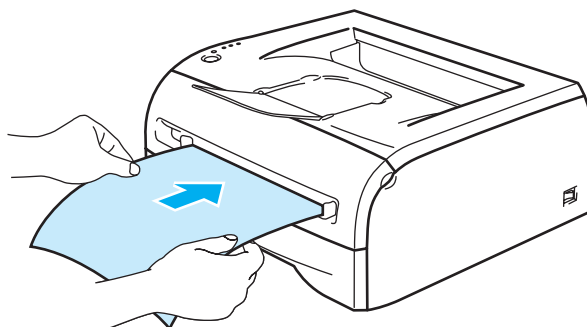
2

Manual duplex printing from the manual feed slot

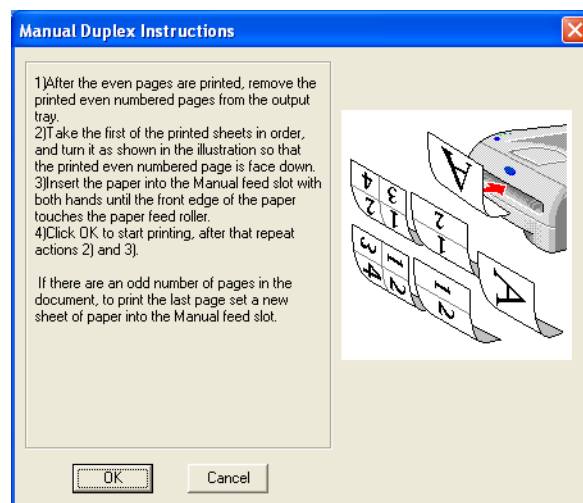
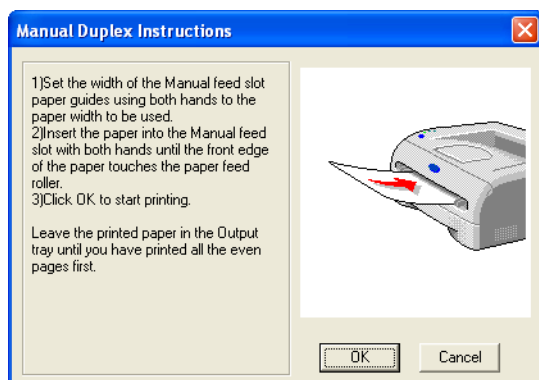
**Note**

You should not use very thin or very thick paper.

- 1 From the **Advanced** tab choose the **Manual Duplex** printing mode, and from the **Basic** tab choose the **Paper Source** to be **Manual** feed.
- 2 Using both hands put the paper in the manual feed slot with the side that is going to be printed on first facing up. Follow the instructions on the computer screen. Repeat this step until you have printed all the even-numbered pages.



- 3 Remove the printed even-numbered pages from the output tray and put them back into the manual feed slot in the same order one by one. Place the paper with the side that is going to be printed on (the blank side) face up. Follow the instructions on the computer screen.



- 4 Repeat Step 3 until you have printed all the odd-numbered pages on the other side of the paper.

Paper orientation for manual duplex printing

The printer prints the second page first.

If you print 10 pages on 5 sheets of paper, it will print page 2 then page 1 on the first sheet of paper.

It will print page 4 then page 3 on the second sheet of paper.

It will print page 6 then page 5 on the third sheet of paper, and so on.

When doing manual duplex printing, the paper must be put in the paper tray in the following way:

■ For the manual feed slot:

- Put the side to be printed on first, face-up, with the leading edge (top) of the paper in first.
- To print the second side, put the paper face down, with the leading edge (top) of the paper in first.
- If letterhead paper is used, this would be put in with the heading face down, and in first.
- To print the second side, put the heading face up and in first.

■ For the paper tray:

- Put the side to be printed on first, face down, with the leading edge (top) of the paper at the front of the tray.
- To print the second side, put the paper face up, with the leading edge (top) of the paper at the front of the tray.
- If letterhead paper is used, this would be put in the paper tray with the heading face up, and at the front of the tray.
- To print the second page, put the heading face down and at the front of the tray.

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 a printer command language or page description language.

The printer drivers for the following version of Windows® and Macintosh® are on the CD-ROM that we have supplied. You can also download the latest printer driver for all of the following operating systems from the Brother Solutions Center at <http://solutions.brother.com>

The installation instructions for installing the printer driver for Windows® and Macintosh® are in the Quick Setup Guide.

If you want to uninstall the printer driver, see *Uninstalling the printer driver* on page 31.

For Windows® 98/Me, Windows® 2000/XP and Windows Vista®

- Brother GDI printer driver for Windows®

For Macintosh®

- Brother Laser driver for Macintosh®

For Linux

- GDI printer driver



Note

For more information about Generic PCL Driver and Linux printer driver, please visit our web site at <http://solutions.brother.com>

	GDI driver	Brother Laser driver
Windows® 98/Me Windows® 2000 Windows® XP Windows Vista®	①	
Mac OS® 9.1 to 9.2 Mac OS® X 10.2.4 or greater		①
Linux (Mandrake 9.1, Red Hat 9.0, SuSE Linux 8.2, Debian 3.0r1)	①	

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

- Paper Size
- Multiple Page
- Orientation
- Copies
- Media Type
- Paper Source
- Resolution
- Toner Save Mode
- Manual Duplex printing ¹
- Watermark ¹
- Job Spooling ¹
- Quick Print Setup ¹
- Sleep Time ¹
- Status Monitor ¹
- Administrator ^{1 2}
- Page Protection ¹
- Print Date & Time ¹
- Density adjustment ¹
- Error Message Printout ¹

¹ These settings are not available with Brother Laser driver for Macintosh®.

² These settings are not available with Windows® 2000/XP and Windows Vista®.

For Windows®

Features in the printer driver

You can download the latest printer driver or get other information by accessing the Brother Solutions Center at <http://solutions.brother.com>

You can also change settings by clicking the illustration on the left side of the **Basic** tab in the **Properties** dialog box. For more information, please see the **Help** text in the printer driver.

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



Note

The screens in this section are from Windows® XP. The screens on your PC will vary depending on your Operating System.

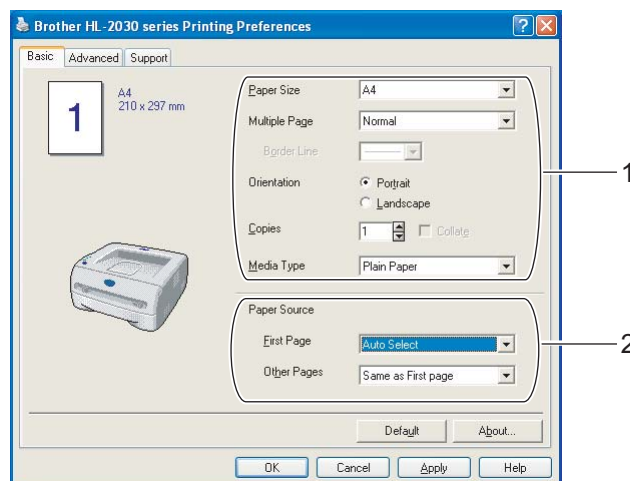
Basic tab



Note

If you are using Windows® 2000, XP or Windows Vista®, you can access the **Basic** tab by clicking **Printing Preferences...** in the **General** tab of the **Printer Properties** screen.

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



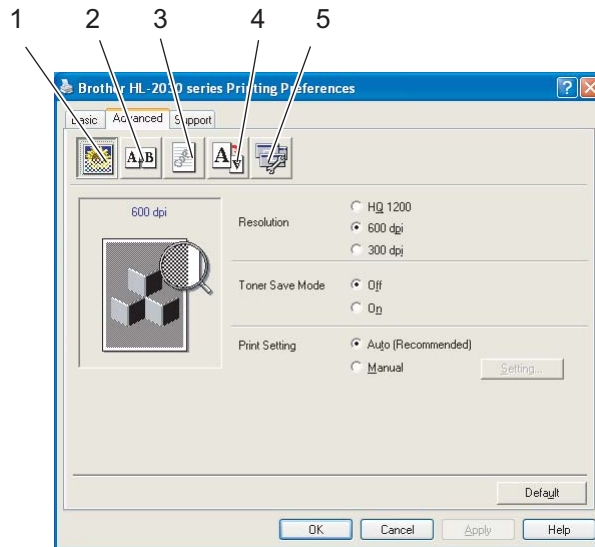
- 1 Choose the **Paper Size**, **Multiple Page**, **Orientation**, **Copies** and **Media Type** (1).
- 2 Choose the **Paper Source** (2).
- 3 Click **OK** to apply your chosen settings.
To return to the default settings, click **Default**, then **OK**.

Advanced tab



Note

If you are using Windows® 2000, XP or Windows Vista®, you can access the **Advanced** tab by clicking **Printing Preferences...** in the **General** tab of the **Printer Properties** screen.



Change the tab settings by clicking one following icons:

- Print Quality (1)
- Duplex Printing (2)
- Watermark (3)
- Page Setting (4)
- Device Options (5)

Print Quality

Select the resolution, toner save mode and print settings or gray printing setting.

■ Resolution

You can change the resolution as follows:

- HQ 1200
- 600 dpi
- 300 dpi

■ Toner Save Mode

You can save running costs by turning on the toner save mode, which reduces the print density.

■ Print Setting

You can manually change the Print setting.

- **Auto**

Selecting the **Auto** button will allow automatic printing with the most suitable print settings for your print job.

- **Manual**

You can change the settings manually by selecting the **Manual** button and clicking the **Setting...** button.

For Windows® 98/Me users: brightness, contrast and other settings.

For Windows® 2000/XP, Windows Vista® users: Printer Halftone, System Halftone, Improve gray printing.

Duplex Printing

■ Manual Duplex

If you select **Manual Duplex**, the dialog box for the manual duplex settings will appear. There are six types of manual duplex binding directions available for each orientation.

■ Binding Offset

If you check the Binding Offset option, you can also specify the offset for binding in inches or millimeters.

Watermark

You can put a watermarked logo or text into your documents.

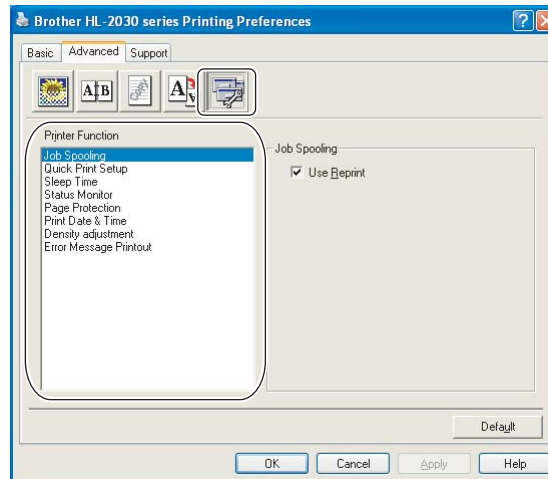
When you use a bitmap file as a watermark, you can change the size of the watermark and put it anywhere you like on the page.

When you use text as a watermark, you can change the font, darkness and angle settings.

Page Setting

You can change the print image scaling and select **Mirror / Reverse print** options.

Device Options



You can set the following **Printer Function** modes in this tab:

(You can jump to the page for each **Printer Function** by clicking the function name in the list below.)

- Job Spooling
- Quick Print Setup
- Sleep Time
- Status Monitor
- Administrator (For Windows® 98/Me users only)
- Page Protection
- Print Date & Time
- Density adjustment
- Error Message Printout



Note

The **Printer Function** list may differ depending on the model.

■ Job Spooling

The printer saves data that you want to reprint.

You can reprint a document without sending the data again from your PC. To reprint press and hold down the **Go** button for about 4 seconds until all the LEDs light up in order (**Toner, Drum, Error, Ready**).



Note

- **Reprint** function is not available for multiple copies.
- If you want to prevent other people from printing your data using the Reprint function, clear the **Use Reprint** check box in the job spooling settings.

■ Quick Print Setup

You can turn the Quick Print Setup function ON or OFF. A small selection window appears on your computer. This will then let you make changes to the settings of the following functions:

- Multiple Page
- Manual Duplex Printing
- Toner Save Mode
- Paper Source
- Media Type

■ Sleep Time

When the printer does not receive data for a certain period of time (timeout), it enters sleep mode. Sleep mode acts as though the printer was turned off. The default time-out is 5 minutes. When **Intelligent Sleep Mode** is selected, it is automatically adjusted to the most suitable time-out setting depending on how often you use your printer. While the printer is in sleep mode, all the LEDs are off, but the printer can still receive data from the computer. Receiving a print file or document automatically wakes up the printer to start printing. Pressing the **Go** button will also wake up the printer.

Sleep mode can be turned off. To turn sleep mode off, go to the **Advanced** tab, select **Device Options** and then select **Sleep Time**. Double click the word **Sleep Time** in the **Sleep Time** screen, this will allow the **Sleep Time Off** function to appear, click **Sleep Time Off** to stop the printer from going into sleep mode. The **Sleep Time Off** function can be hidden by double clicking the word **Sleep Time** in the **Sleep Time** screen again. We recommend that you keep Sleep mode on for power saving.

■ Status Monitor

This reports the printer status (any errors that may happen with the printer) when printing. The default setting for the **Status Monitor** is off. If you would like to turn the **Status Monitor** on, go to the **Advanced** tab, select **Device options** and then select **Status Monitor**.

■ Administrator (For Windows® 98/Me users only)

Administrators have the authority to limit the Number of copies, Scaling setting and Watermark setting functions.

- Password

Enter the password into this box.

- Set Password

Click here to change the password.

- COPY LOCK

Lock the copy pages selection to prevent multiple copy printing.

- WATERMARK LOCK

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

- SCALING LOCK

Lock the scaling setting as shown below. 1 in 1 100%

■ Page Protection

Page Protection refers to a setting that reserves additional memory for the creation of full page images.

Selections are AUTO, OFF and Printer Default.

The page protection feature allows the printer to create the full page image to be printed in memory before physically moving the paper through the printer. When the image is very complicated and the printer has to wait to process the image before printing, use this function.

■ Print Date & Time

Date: Specifies the format of the date.

Time: Specifies the format of the time.

■ Density adjustment

Increase or decrease the print density.

■ Error Message Printout

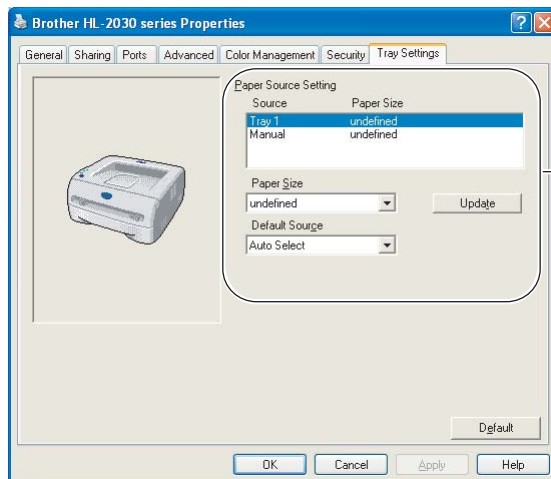
You can choose whether the printer reports problem by printing error page or not. About the errors, see *Error message printout* on page 60.

Selections are Printer Default (ON), ON and OFF.

Tray Settings tab

■ Paper Source Setting (1)

This feature recognizes the paper size in each paper tray.



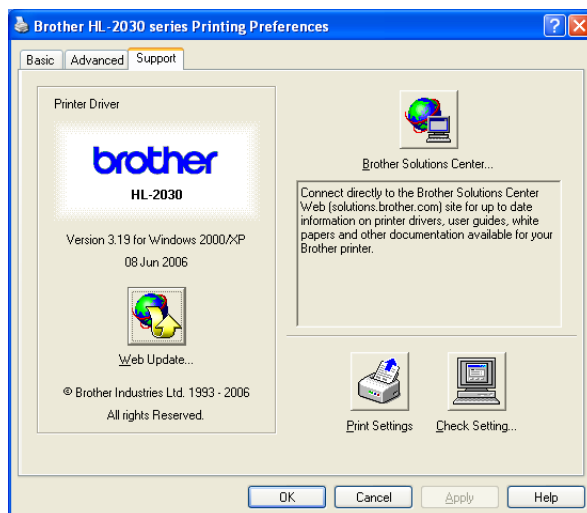
Support tab



Note

If you are using Windows® 2000, XP or Windows Vista®, you can access the **Support** tab by clicking **Printing Preferences...** in the **General** tab of the **Printer Properties** screen.

- You can download the latest driver or get other product information by accessing the Brother Solutions Center at <http://solutions.brother.com>
- You can see the printer driver version.
- You can check the current driver settings.
- You can print the printer settings page.



For Macintosh®

This printer supports Mac OS® 9.1 to 9.2 and Mac OS® X 10.2.4 or greater.

You can download the latest printer driver by accessing the Brother Solutions Center at <http://solutions.brother.com>



Note

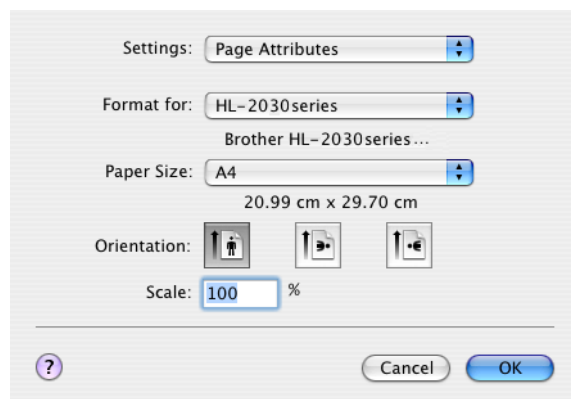
The screens in this section are from Mac OS® X 10.3.

The screens on your Macintosh® will vary depending on your Operating System.

3

Page Setup

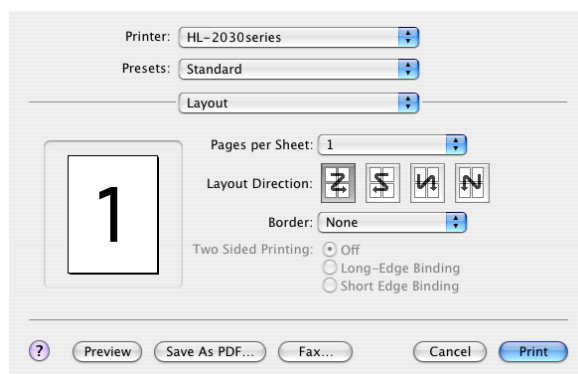
You can set the **Paper Size**, **Orientation** and **Scale**.



Print

Layout

Set the **Pages per Sheet**, **Layout direction** and **Border**.



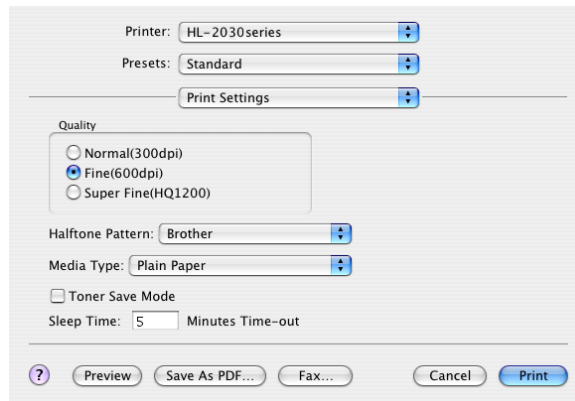
Pages per sheet: Select how many pages will appear on each side of the paper.

Layout direction: When you specify the Pages per sheet, you can also specify the direction of the layout.

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

Print settings

Set the **Resolution**, **Media Type**, **Toner Save** and other settings.



You can change settings by selecting the setting in the **Printer Settings** list:

■ Quality

You can change the resolution as follows:

- 300 dpi
- 600 dpi
- HQ 1200

■ Media Type

You can change the media type as follows:

- Plain Paper
- Recycled Paper
- Thick Paper
- Transparencies
- Thicker Paper
- Thin Paper
- Bond Paper
- Envelopes
- Env.Thin
- Env.Thick

■ Toner Save Mode

You can save running costs by turning on the **Toner Save** setting, which reduces the print density.

Uninstalling the printer driver

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



Note

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

3

Printer driver for Windows®

For Windows® 98/Me and Windows® 2000

- 1 Click **Start** and select your appropriate printer from **Programs**.
- 2 Select **UnInstall**.
- 3 Follow the instructions on the screen.

For Windows® XP and Windows Vista®

- 1 Click **Start** and select your appropriate printer from **ALL Programs**.
- 2 Select **UnInstall**.
- 3 Follow the instructions on the screen.

Brother Laser driver for Macintosh®

For Mac OS® 9.1 to 9.2

- 1 Open the **Extensions** folder located in the **System Folder** on the **Macintosh HD**.
- 2 Drag all these following files in the **Extensions** folder to the **trash**.
 - BR_PrintMonitor(laser)
 - Brother Laser
 - Brother Laser(IP)



Note

There may be several of the USB Print Driver(BRXXX)* and BR_PrintMonitor(BXX)* extensions with different endings. *The 'x' refers to the model of your machine.

- 3 Restart the Macintosh®.
- 4 Once the computer has restarted you can then dump the trash.

For Mac OS® X 10.2.4 or greater

- 1 Disconnect the USB cable between the Macintosh and your printer.
- 2 Restart the Mac.
- 3 Log on as an "Administrator".
- 4 Run the **Print Center** (from the **Go** menu > **Applications** > **Utilities** > **Print Center** folder), then choose the printer you want to remove and remove it by clicking the **Delete** button.
- 5 Click on the name of your printer in the printer list. From the **Finder** menu, delete the Printer.
- 6 Drag the **HL-MFLPro** folder (from the **Mac OS X 10.X** > **Library** > **Printers** > **Brother**) into the Trash bin and then empty the trash bin.
- 7 Restart the Macintosh®.

LEDs (Light Emitting Diodes)

This section refers to the four Light Emitting Diodes (LEDs) (**Toner**, **Drum**, **Error**, **Ready**) and a control panel button (**Go**) on the control panel.



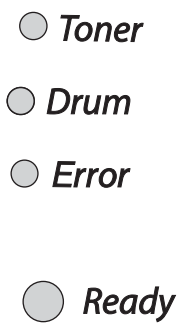
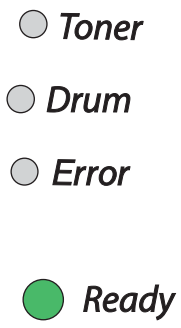
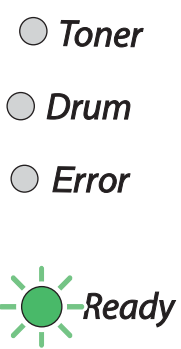
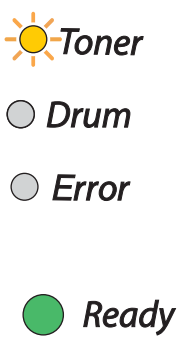
The LED indications shown in the table below are used in the illustrations in this chapter.













	LED is off.
	LED is on.
	LED is blinking.

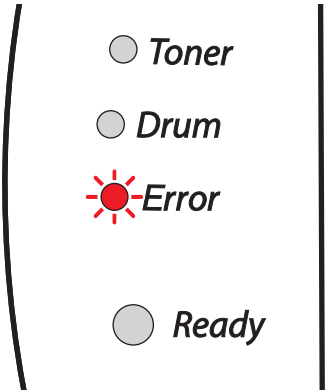
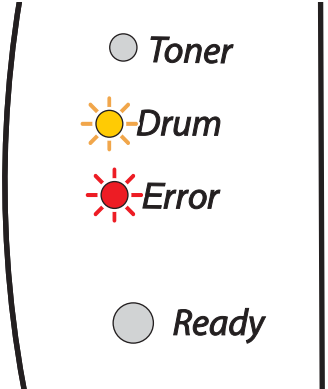


Note

When the power switch is off or the printer is in Sleep mode, all the LEDs are off.

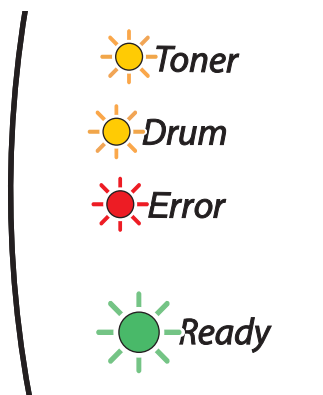
LED	Printer status
	<p>Sleep mode</p> <p>The power switch is off or the printer is in Sleep mode. Pressing the Go button wakes up the printer from Sleep mode to Ready mode.</p>
	<p>Ready to print</p> <p>The printer is ready to print.</p>
	<p>Warming up</p> <p>The printer is warming up.</p>
	<p>Receiving data</p> <p>The printer is either receiving data from the computer, processing data in memory or printing the data.</p>
	<p>Data remaining in memory</p> <p>Print data is left in the printer memory. If the Ready LED blinks for a long time and nothing has printed, press the Go button to print the data that is still in memory.</p>
	<p>Toner low</p> <p>Indicates that the toner cartridge is nearly empty. Purchase a new toner cartridge and have it ready for when Toner Life End is indicated.</p> <p>The Toner LED alternates turning on for 2 seconds and off for 3 seconds.</p>

LED	Printer status
 Toner  Drum  Error  Ready	<p>Toner life end Replace the toner cartridge with a new one. See <i>Replacing the toner cartridge</i> on page 44.</p> <p>Cartridge position error The toner cartridge is not installed correctly. Take out the toner cartridge and put it back into the printer again.</p>
 Toner  Drum  Error  Ready	<p>Drum life end soon The drum unit is near the end of its life. We recommend that you get a new drum unit to replace the current one. See <i>Replacing the drum unit</i> on page 49.</p> <p>The Drum LED alternates turning on for 2 seconds and off for 3 seconds.</p>
 Toner  Drum  Error  Ready	<p>No paper fed tray¹ Put paper in the tray. See <i>Printing on plain paper, bond paper or transparencies from the paper tray</i> on page 7. Then press the Go button.</p>

LED	Printer status
	<p>Back cover is open Close the back cover of the printer.</p> <p>Paper jam Clear the paper jam. See <i>Paper jams and how to clear them</i> on page 61. If the printer does not start printing, press the Go button.</p> <p>No paper fed manual feed slot Put the paper in the manual feed slot. See <i>Printing on plain paper, bond paper or transparencies from the manual feed slot</i> on page 10 or <i>Printing on thick paper, labels and envelopes from the manual feed slot</i> on page 13.</p> <p>Memory full The printer memory is full and the printer cannot print full pages of a document. See <i>Solving print problems</i> on page 72.</p> <p>Print overrun A print overrun occurred and the printer cannot print full pages of a document. See <i>Solving print problems</i> on page 72.</p>
	<p>Drum error The corona wire needs to be cleaned. See <i>Cleaning the corona wire</i> on page 56. If your LED's still shows the same error indication after you have cleaned the corona wire, replace the drum unit with a new one. See <i>Replacing the drum unit</i> on page 49.</p>

Service call indications

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



If you see the service call indication above, turn off the power switch, wait a few seconds, and then turn it back on and try to print again.

If you cannot clear the error and see the same service call indication after turning the printer back on, call your dealer or a Brother authorized service representative.

When you press the **Go** button, the LEDs will light up as shown in *Table 1: LED indications while pressing Go button* on page 38 to identify the error.

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

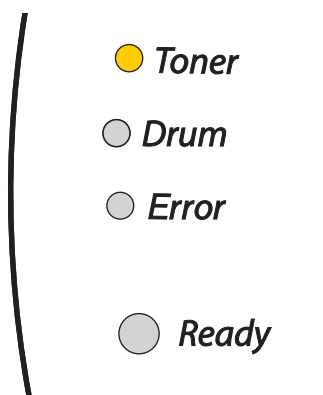


















Table 1: LED indications while pressing Go button

LEDs	fuser unit failure ¹	Laser unit failure	Main motor failure	Main PCB failure
Toner				
Drum				
Error				
Ready				

Make a note of the indication and report the error status to your dealer or a Brother authorized service representative by referring to the above table.

**Note**

Make sure that the front cover is fully closed before you report a service call.

¹ If this error occurs, turn the power switch off, wait a few seconds, and then turn it on again. Leave the printer for 10 minutes with the power on. If the error occurs again, consult your dealer or Brother authorized service representative.

Control panel button (Go button)

The control panel button has the following functions:

■ Wake-up

If the printer is in Sleep mode, press the **Go** button to wake the printer up and go to the Ready state.

■ Error recovery

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

■ Form feed

If the green **Ready** LED blinks for a long time, press the **Go** button. The printer will print any data that is left in the printer memory.

■ Cancel printing

While printing press the **Go** button for about 4 seconds until all the LEDs light up. The **Ready** and **Error** LEDs will flash as the job is being cancelled.

■ Reprint

To reprint the last document, press the **Go** button for about 4 seconds until all the LEDs light up.

Print a test page

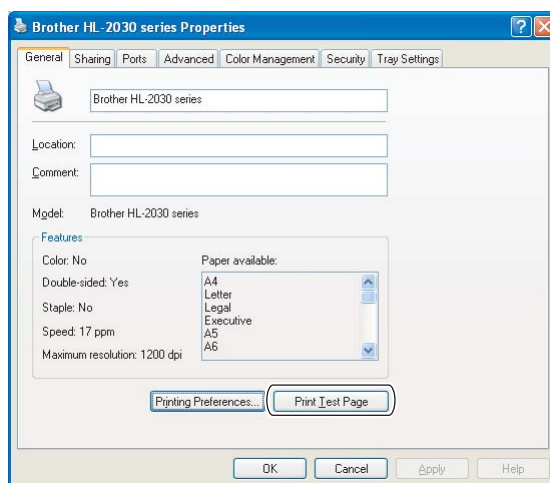
You can use the **Go** button or the printer driver to print a test page.

Using control panel button

- 1 Turn off the printer.
- 2 Make sure that the front cover is closed and the power cord is plugged in.
- 3 Hold down the **Go** button as you turn on the power switch. Keep the **Go** button pressed down until the **Toner**, **Drum** and **Error** LEDs light up. Release the **Go** button. Make sure that the **Toner**, **Drum** and **Error** LEDs are off.
- 4 Press the **Go** button again. The printer will print a test page.

Using the printer driver

If you are using Brother's Windows® printer driver, click the **Print Test Page** button. It is in the **General** tab of the Windows® printer driver.



Print a Printer Settings page

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

Using the control panel button

- 1 Make sure that the front cover is closed and the power cord is plugged in.
- 2 Turn on the printer and wait until the printer is in the Ready state.
- 3 Press the **Go** button three times within 2 seconds. The printer will print the current printer settings page.

Using the printer driver

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



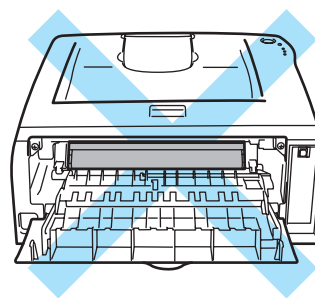
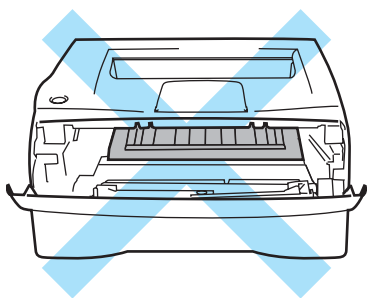
You will need to replace certain parts and clean the printer regularly.



WARNING

When you replace certain parts or clean the printer regularly, pay attention to the following:

- If your clothes are smeared with toner, wipe off the toner with a dry cloth and immediately wash the clothes in cold water to avoid stains.
- Be careful not to inhale the toner.
- After you have just used the printer, some parts inside the printer are extremely hot. When you open the front cover or back cover of the printer, never touch the shaded parts shown in the illustrations.



Replacing the consumable items

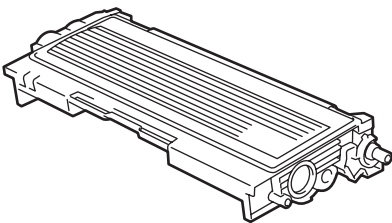
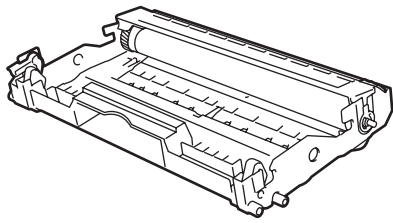
You will need to replace the consumable items regularly.



Note

These instructions are also included in *Improving the print quality* on page 67.

Consumables

Toner Cartridge	Drum Unit
	
See <i>Toner cartridge</i> on page 43	See <i>Drum unit</i> on page 48

Toner cartridge

The life of the original toner cartridge that came with the printer may be either a starter¹ or standard² toner cartridge, and depends on the model and country you bought the printer in.

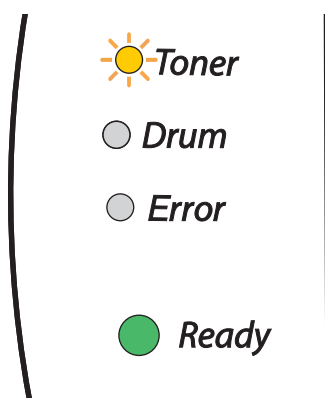
- ¹ The starter toner cartridge will print approximately 1,000 A4 or Letter-size single-sided pages. Approx. cartridge yield is declared in accordance with ISO/IEC 19752. (Letter/A4)
- ² Standard toner cartridges print approximately 1,500 A4 or Letter-size single-sided pages. Approx. cartridge yield is declared in accordance with ISO/IEC 19752. (Letter/A4)



Note

- The amount of toner used varies according to what is printed on the page and the print density setting.
- If you change the print density setting for lighter or darker printing, the amount of toner that is used will change.
- Wait to unpack the toner cartridge until immediately before you install it in the printer.

Toner Low message



The **Toner** LED alternates turning on for 2 seconds and off for 3 seconds.

If the LED shows this message, the toner cartridge has nearly run out of toner. Buy a new toner cartridge and have it ready before you get a Toner Life End message. To put in the toner cartridge, see *Replacing the toner cartridge* on page 44.

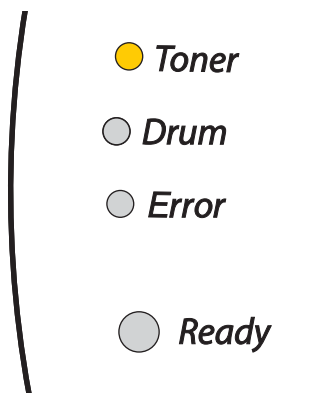


Note

The **Toner** LED will blink continuously if the toner cartridge is nearly empty.

Toner Life End message

If the LED shows the message below, the printer has run out of toner or the toner is not evenly distributed inside the cartridge.



5

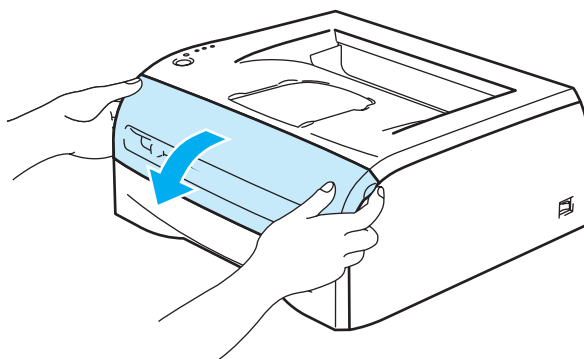
Replacing the toner cartridge



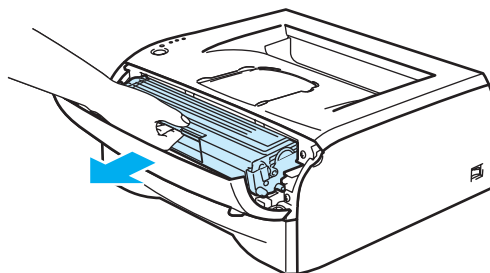
Note

- To ensure high quality printing, make sure you use quality Brother toner cartridges. When you want to buy toner cartridges, call the dealer you bought the printer from or Brother Customer Service.
- We recommend that you clean the printer when you replace the toner cartridge. See *Cleaning* on page 52.

- 1 Open the front cover of the printer.



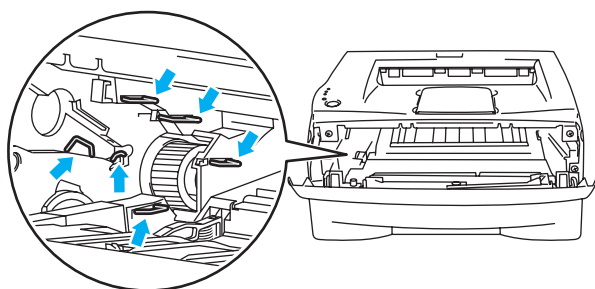
- 2 Pull out the drum unit and toner cartridge assembly.



! CAUTION

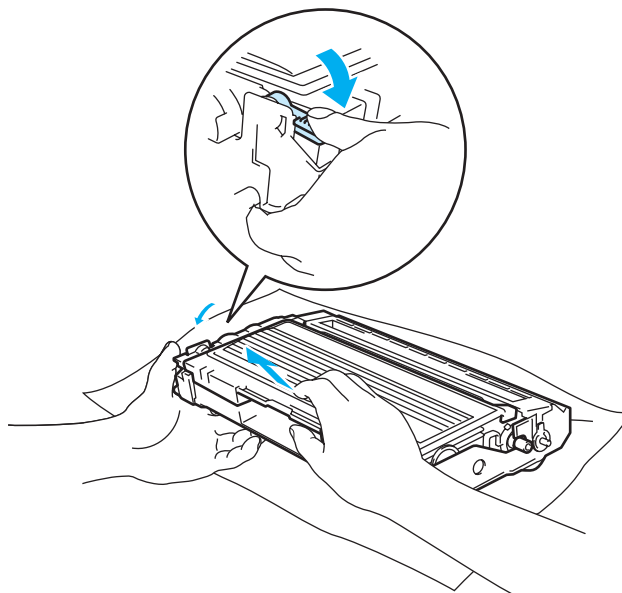
We recommend that you place the drum unit and toner cartridge assembly on a piece of disposable paper or cloth in case you accidentally spill or scatter toner.

To prevent damage to the printer from static electricity, do not touch the electrodes shown in the illustrations.



5

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

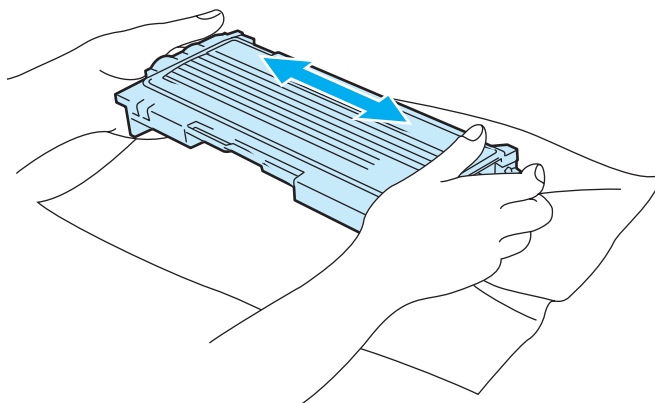
**! CAUTION**

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

**Note**

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

- 4 Unpack the new toner cartridge. Hold the cartridge level with both hands and gently rock it from side to side five or six times to spread the toner evenly inside the cartridge.



! CAUTION

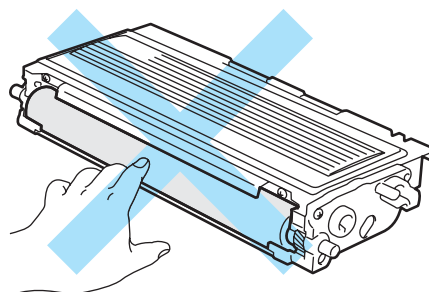
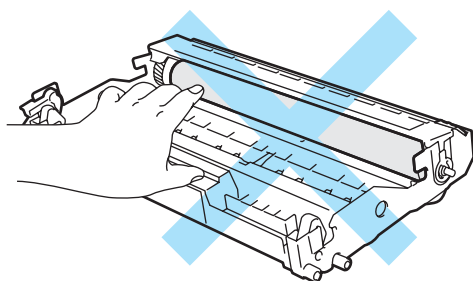
Wait to unpack the toner cartridge until immediately before you put it in the printer. If toner cartridges are left unpacked for a long time the toner life will be shortened.

If an unpacked drum unit is put in direct sunlight or room light, the unit may be damaged.

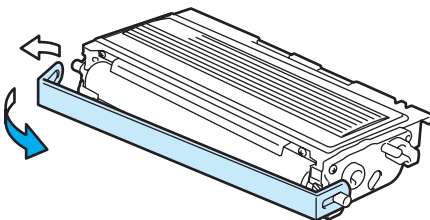
Brother strongly recommends that you do not refill the toner cartridge provided with your printer. We also strongly recommend that you continue to use only Genuine Brother Brand replacement toner cartridges. Using or attempting to use potentially incompatible toner and/or toner cartridges in your printer may cause damage to the printer itself and/or it may result in unsatisfactory print quality. Our warranty coverage does not apply to any problem that was caused by the use of unauthorized third party toner and toner cartridges. To protect your investment and guarantee your print quality please continue to replace consumed toner cartridges with only Genuine Brother Branded Supplies.

Printing with a third-party toner or third-party toner cartridge may reduce not only the print quality but also the quality and life of the printer itself. It may also cause serious damage to the performance and life of a drum unit. Warranty coverage does not apply to problems caused by the use of third-party toner or third-party toner cartridges.

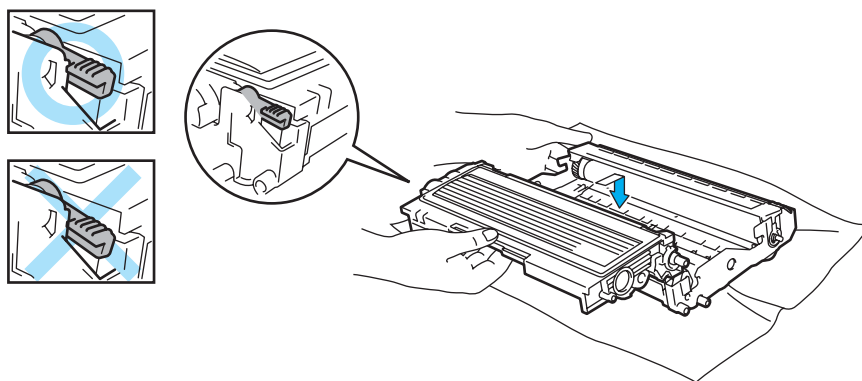
Put the toner cartridge in the drum unit immediately after you have removed the protective cover. Do not touch the shaded parts shown in the illustrations to prevent any degradation to the print quality.



- 5 Pull off the protective cover.



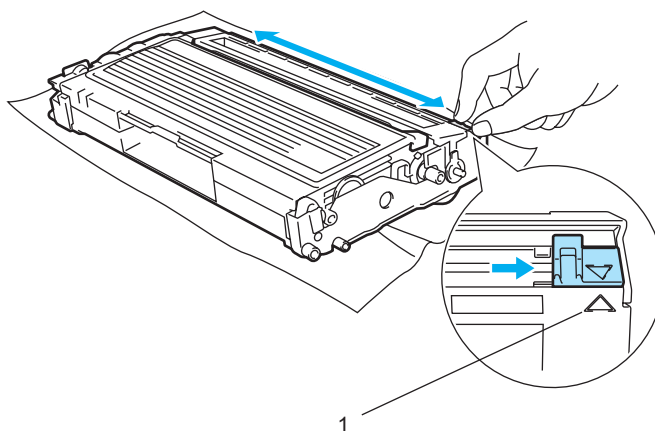
- 6 Put the new toner cartridge firmly into the drum unit until you hear it lock into place. If you put it in properly, the lock lever will lift automatically.



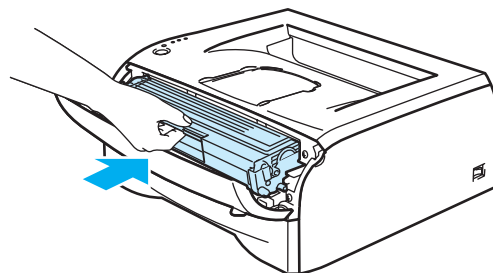
! CAUTION

Make sure you insert the toner cartridge properly or it may separate from the drum unit.

- 7 Clean the primary corona wire inside the drum unit by gently sliding the blue tab from right to left and left to right several times. Return the tab to the home position (▲) (1) before you put the drum unit back in the printer. If you do not, printed pages may have a vertical stripe.



- 8 Put the drum unit and toner cartridge assembly back in the printer. Close the front cover of the printer.



Drum unit

This printer can print up to 12,000 pages¹ with one drum unit.

¹ At 5% print coverage (A4 or Letter size). The actual number of printed pages will vary depending on the average type of print job and paper.

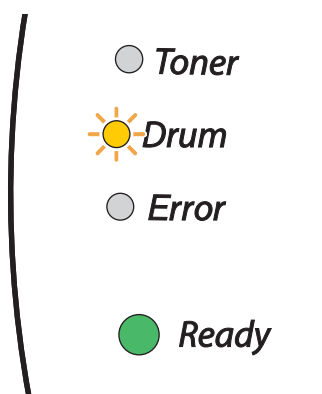


Note

- There are many factors that determine the actual drum life, such as the temperature, humidity, type of paper, type of toner used, number of pages per print job and so on. Under ideal conditions, the average drum life is estimated at up to 12,000 pages. The actual number of pages that your drum will print may be significantly less than this estimate. Because we have no control over the many factors that determine the actual drum life, we cannot guarantee a minimum number of pages that will be printed by your drum.
- For best performance, use only genuine Brother toner. The printer should be used only in a clean, dust-free environment with adequate ventilation.
- Printing with a third-party drum unit may reduce not only the print quality but also the quality and life of the printer itself. Warranty coverage does not apply to problems caused by the use of third-party drum unit.

Change Drum message

If the LED shows the message below, it means the drum unit is near the end of its life. We recommend that you replace the drum unit with a new one before there is a noticeable deterioration in the print quality.



! CAUTION

While removing the drum unit, handle it carefully because it may contain toner.

Every time you replace the drum unit, you should clean the inside of the printer. See *Cleaning* on page 52.

Replacing the drum unit

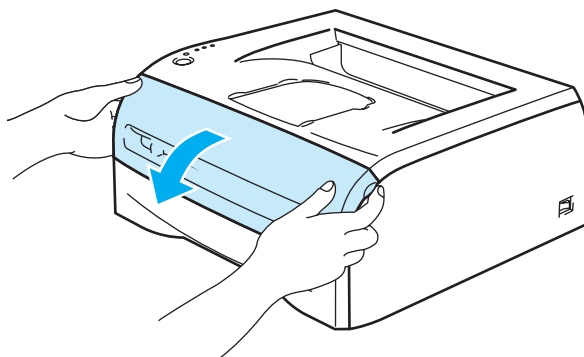


Note

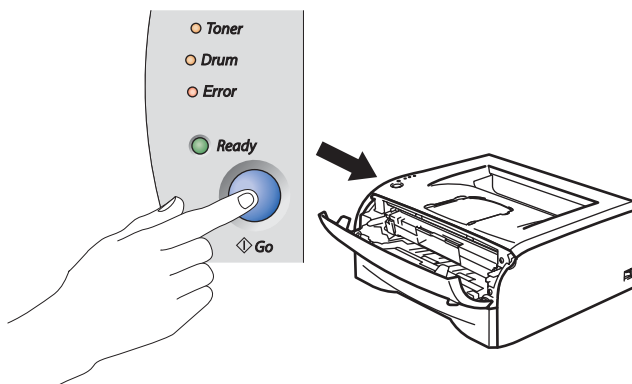
We recommend that you clean the printer when you replace the drum unit. See *Cleaning* on page 52.

Follow these steps to replace the drum unit.

- 1 Make sure that the printer is turned on and the Drum LED is blinking. Open the front cover of the printer.



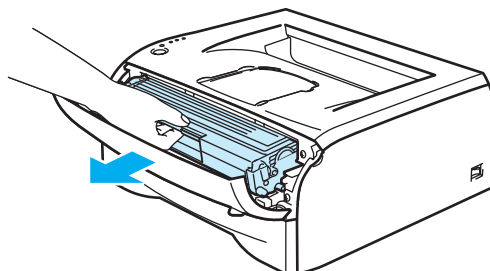
- 2 Press and hold down the **Go** button for about 4 seconds until all the LEDs light up. Once all four LEDs are lit, release the **Go** button.



⚠ Improper Setup

Do not reset the drum counter when you replace only the toner cartridge.

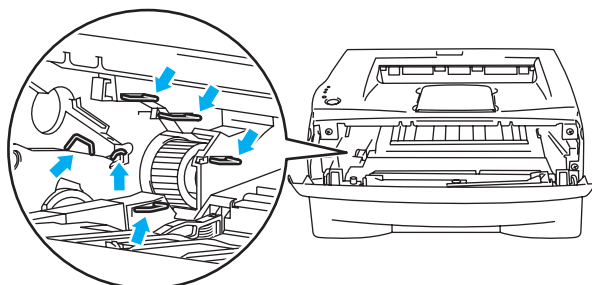
- 3 Pull out the drum unit and toner cartridge assembly.



! CAUTION

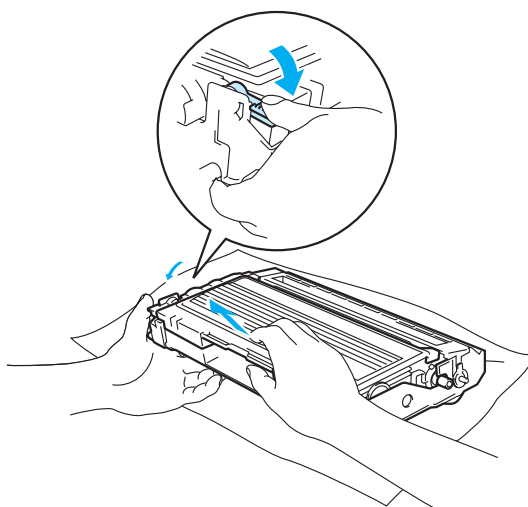
We recommend that you place the drum unit and toner cartridge assembly on a piece of disposable paper or cloth in case you accidentally spill or scatter toner.

To prevent damage to the printer from static electricity, do not touch the electrodes shown in the illustrations.



5

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

**! CAUTION**

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

**Note**

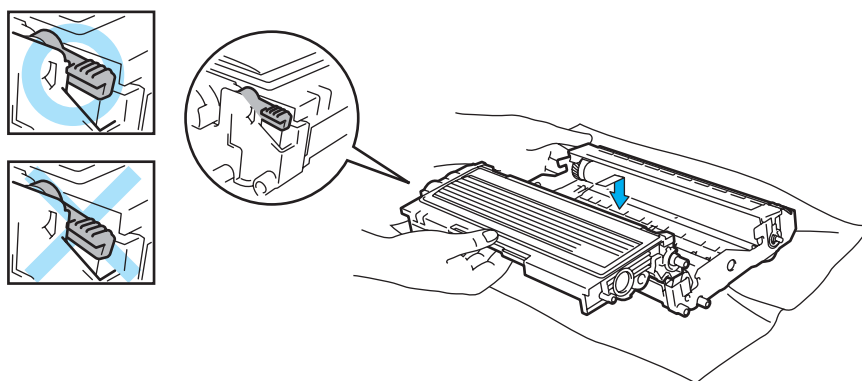
- Be sure to seal up the drum unit tightly in a bag so that toner powder does not spill out of the unit.
- Discard the used drum unit according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office.

- 5 Unpack the new drum unit.

! CAUTION

Wait to unpack a drum unit until immediately before you put it in the printer. Exposure to direct sunlight or room light may damage the drum unit.

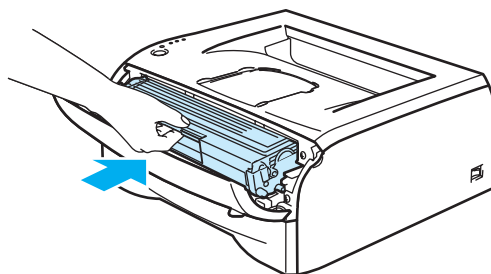
- 6 Put the toner cartridge firmly into the new drum unit until you hear it lock into place. If you put the cartridge in properly, the blue lock lever will lift automatically.



! CAUTION

Make sure you insert the toner cartridge properly, or it may separate from the drum unit.

- 7 Put the drum unit and toner cartridge assembly in the printer.



- 8 Close the front cover.
- 9 Make sure that the **Drum** LED is now off.

Cleaning

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

Cleaning the outside of the printer

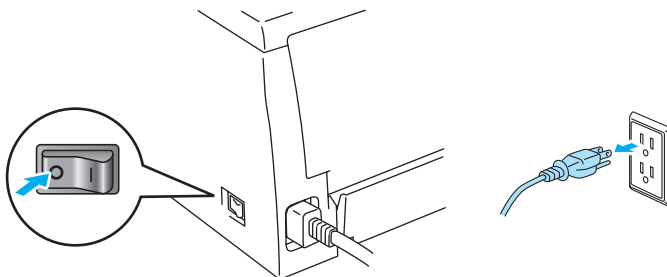
! CAUTION

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

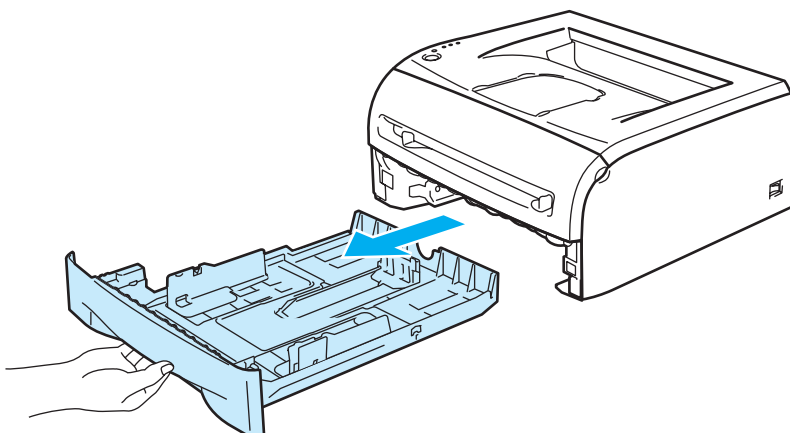
Do not use cleaning materials that contain ammonia.

Clean the outside of the printer as follows:

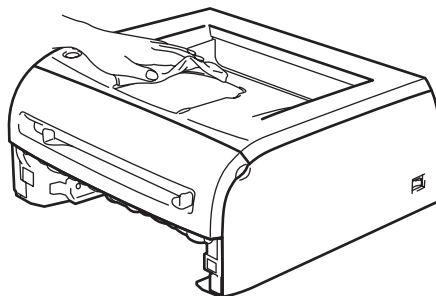
- 1 Turn off the printer power switch and unplug the printer from the AC power outlet.



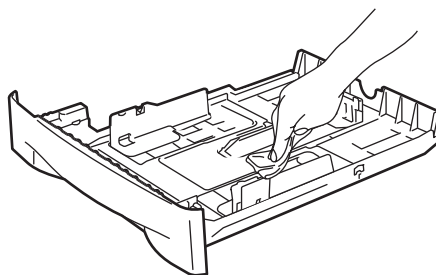
- 2 Pull the paper tray completely out of the printer.



- 3 Wipe the outside of the printer with a soft cloth to remove dust.



- 4 Remove anything that is stuck inside the paper tray.
- 5 Wipe the inside of the paper tray with a soft cloth to remove dust.

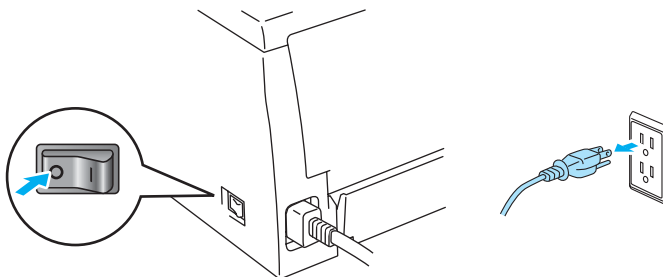


- 6 Put the paper tray firmly back in the printer.
- 7 Plug the printer back in and turn on the printer power switch.

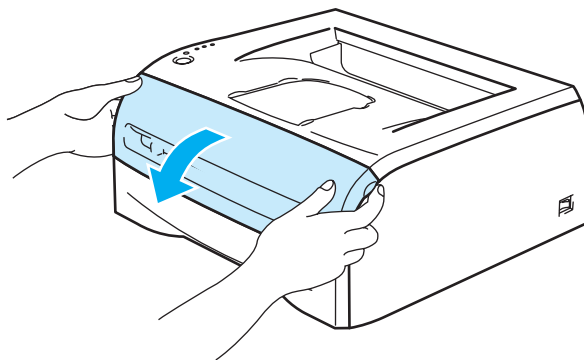
Cleaning the inside of the printer

Clean the inside of the printer as follows:

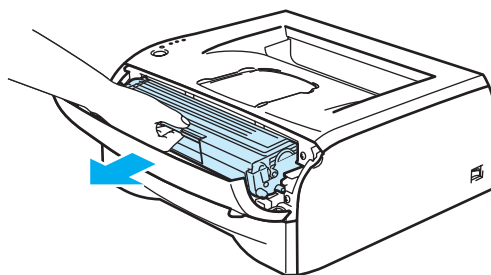
- 1 Turn off the printer power switch and unplug the printer from the AC power outlet.



- 2 Open the front cover of the printer.

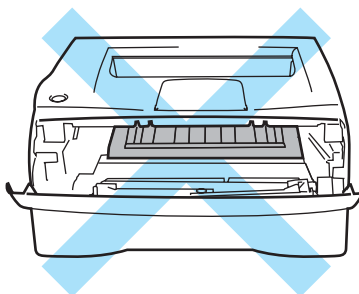


- 3 Pull out the drum unit and toner cartridge assembly.

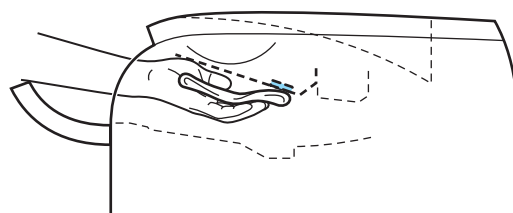
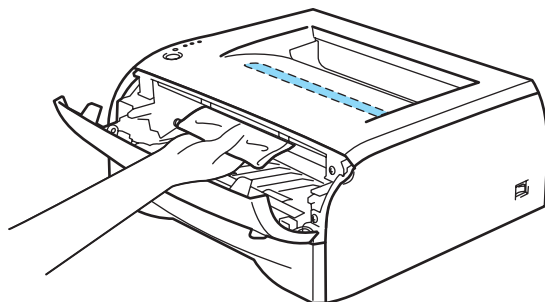


HOT SURFACE

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



- 4 Wipe the scanner window with a dry, lint-free cloth.

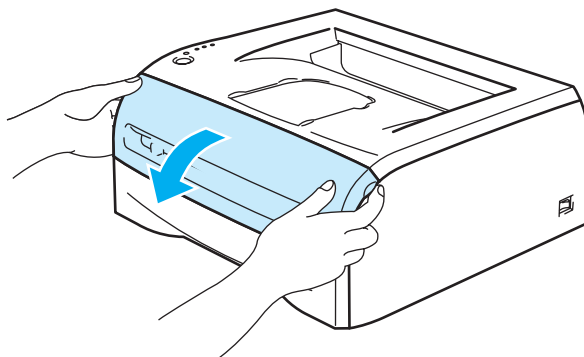


- 5 Put the drum unit and toner cartridge assembly back in the printer.
- 6 Close the front cover.
- 7 Plug the printer back in and turn on the printer power switch.

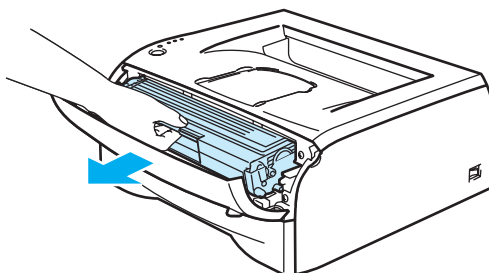
Cleaning the corona wire

If you are experiencing print quality problems, please clean the corona wire as follows:

- 1 Open the front cover of the printer.



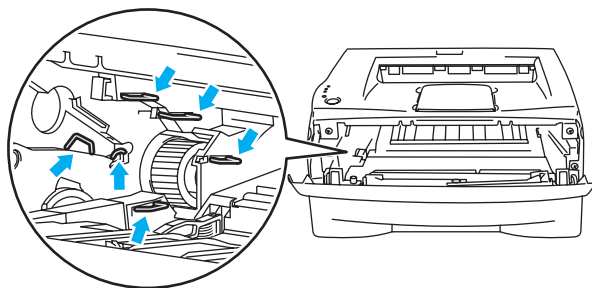
- 2 Pull out the drum unit and toner cartridge assembly.



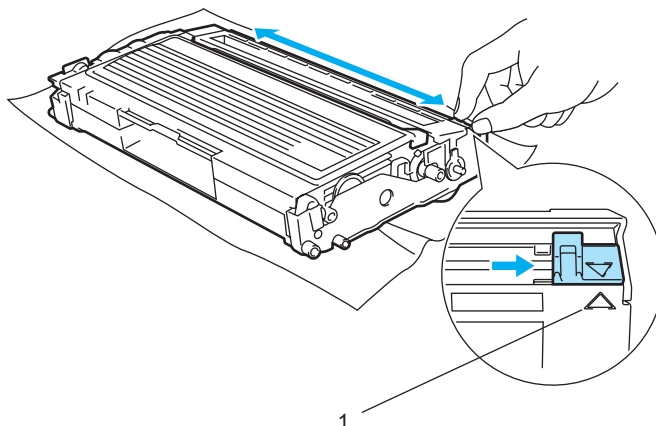
! CAUTION

We recommend that you place the drum unit and toner cartridge assembly on a piece of disposable paper or cloth in case you accidentally spill or scatter toner.

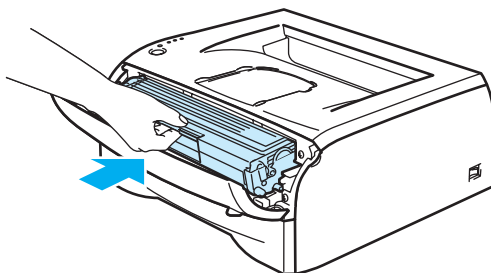
To prevent damage to the printer from static electricity, do not touch the electrodes shown in the illustrations.



- 3 Clean the primary corona wire inside the drum unit by gently sliding the blue tab from right to left and left to right several times. Return the tab to the home position (▲) (1) before you put the drum unit back in the printer. If you do not, printed pages may have a vertical stripe.



- 4 Put the drum unit and toner cartridge assembly back in the printer. Close the front cover of the printer.



You can correct most problems by yourself. If you need additional help, the Brother Solutions Center offers latest FAQs and troubleshooting tips. Visit us at <http://solutions.brother.com>.

Identifying your problem

First, check the following:

- The AC power cord is connected properly and the printer is turned on.
- All of the protective parts have been removed.
- The toner cartridge and drum unit are installed properly.
- The front cover is fully closed.
- Paper is inserted properly in the paper tray.
- The interface cable is securely connected to the printer and the computer.
- The correct driver for the printer is installed and selected.
- The PC is set up to connect to the correct printer port.

Printer does not print:

If you did not solve your problem with the above checks, please identify your problem and then go to the section listed:

■ **Printer LED is blinking**

See *LEDs (Light Emitting Diodes)* on page 33.

■ **Status Monitor Error Message appears**

See *Error messages in the Status Monitor* on page 59.

■ **Printer printed an Error Message**

See *Error message printout* on page 60.

■ **Paper handling**

See *Paper handling* on page 60 and *Paper jams and how to clear them* on page 61.

■ **Other problems**

See *Other problems* on page 67.

Pages are printed, however there are problems with:

■ **Print quality**

See *Improving the print quality* on page 67.

■ **Printout is incorrect**

See *Solving print problems* on page 72.

Error messages in the Status Monitor

The **Status Monitor** will report problems with the printer. Take the corrective actions listed in the following table for the error message that the **Status Monitor** reports.

The default setting for the **Status Monitor** is off. If you would like to turn the **Status Monitor** on, you can change the setting of the **Status Monitor** in the **Device Options** of the **Advanced** tab. See *Device Options* on page 25.

Error message	Action
Cover is Open	<ul style="list-style-type: none"> ■ Close the front cover of the printer.
Back Cover is open	<ul style="list-style-type: none"> ■ Close the back cover of the printer.
Memory Full	<ul style="list-style-type: none"> ■ Press the Go button to print the data remaining in the printer. Cancel the print job if you want to delete the data remaining in the printer, see <i>Cancel printing</i> on page 39. ■ Reduce the print resolution or reduce the complexity of your document.
Print Overrun	<ul style="list-style-type: none"> ■ Press the Go button to print the data left in the printer. Cancel the print job if you want to delete the data remaining in the printer, see <i>Cancel printing</i> on page 39. ■ If this does not clear the error, reduce the complexity of your document or reduce the print resolution. ■ Set page protection to AUTO by using the supplied Windows® driver or Remote Printer Console program.
No Paper Fed Tray 1 No Paper Fed Manual slot	<ul style="list-style-type: none"> ■ The paper tray may be out of paper or not properly installed. If it is empty, put a new stack of paper in the paper tray and then press the Go button. ■ If there is paper in the paper tray, make sure it is straight. If the paper is curled, straighten it before printing. 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 you use paper that meets Brother's recommended paper specifications. See <i>What kind of paper can I use?</i> on page 4.
Paper Jam Tray 1 Paper Jam Inside Paper Jam Rear	<ul style="list-style-type: none"> ■ Take out the jammed paper from the indicated area. See <i>Paper jams and how to clear them</i> on page 61.
Toner Life End	<ul style="list-style-type: none"> ■ See <i>Replacing the toner cartridge</i> on page 44.
Toner Low	<ul style="list-style-type: none"> ■ Purchase a new toner cartridge and have it ready for when the Toner Life End status is indicated.
Cartridge Position Error	<ul style="list-style-type: none"> ■ Take out the toner cartridge and put it back into the printer again.
Drum Life End Soon	<ul style="list-style-type: none"> ■ The drum is near the end of its life. Purchase a new drum unit to replace the current one. See <i>Replacing the drum unit</i> on page 49.
Drum Error	<ul style="list-style-type: none"> ■ See <i>Cleaning the corona wire</i> on page 56. If your LED's still shows the same error indication after you have cleaned the corona wire, replace the drum unit with a new one. See <i>Replacing the drum unit</i> on page 49.
Service Call	<ul style="list-style-type: none"> ■ Check the LED indication to identify the error. See <i>Service call indications</i> on page 37.

Error message printout

The printer will report problems by printing an error message as defined in the following table. Take the corrective actions for the error message.

Error message	Action
MEMORY FULL	<ul style="list-style-type: none"> ■ Press the Go button to print the data left in the printer. Cancel the print job if you want to delete the data remaining in the printer, see <i>Cancel printing</i> on page 39. ■ Reduce the print resolution or reduce the complexity of your document.
PRINT OVERRUN	<ul style="list-style-type: none"> ■ Press the Go button to print the data left in the printer. Cancel the print job if you want to delete the data remaining in the printer, see <i>Cancel printing</i> on page 39. ■ If this does not clear the error, reduce the complexity of your document or reduce the print resolution. ■ Set page protection to AUTO by using the supplied Windows® driver or Remote Printer Console program.
RESOLUTION REDUCED TO ENABLE PRINTING (The printer has printed the document at a reduced resolution)	<ul style="list-style-type: none"> ■ Reduce the complexity of your document before you print to prevent automatic reduction in the resolution.

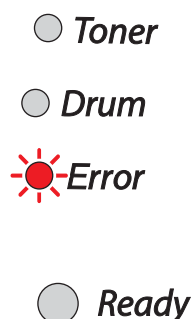
Paper handling

First, make sure that you are using paper that meets Brother recommended paper specifications. See *What kind of paper can I use?* on page 4.

Problem	Recommendation
The printer does not feed paper.	<ul style="list-style-type: none"> ■ If there is paper in the paper tray, make sure it is straight. If the paper is curled, you should straighten it before printing. 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. ■ Check that manual feed mode is not selected in the printer driver.
The printer does not feed paper from the manual feed slot.	<ul style="list-style-type: none"> ■ Re-insert the paper firmly, one sheet at a time. ■ Make sure that manual feed mode is selected in the printer driver.
The printer will not feed envelopes.	<ul style="list-style-type: none"> ■ The printer can feed envelopes from the manual feed slot. Your application software must be set up correctly to print on the envelope size you are using. This is usually done in the page setup or document setup menu of your software. Please see your software application manual.
A paper jam has occurred.	<ul style="list-style-type: none"> ■ Clear the jammed paper. See <i>Paper jams and how to clear them</i> on page 61.

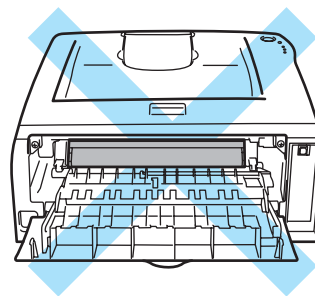
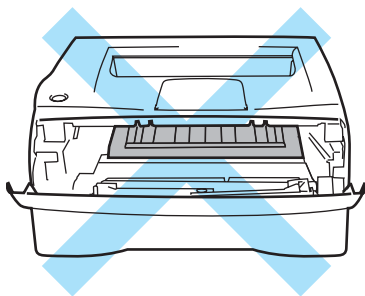
Paper jams and how to clear them

If a paper jam occurs, the printer will tell you by flashing the Error LED as shown below.



HOT SURFACE

After you have just used the printer, some parts inside the printer are extremely hot! When you open the front cover or back cover of the printer, never touch the shaded parts shown in the illustrations.



Clear the jammed paper as follows.

If the jammed paper is removed completely by following the steps below, you can install the paper tray first, and then close the front cover and the printer will resume printing automatically.

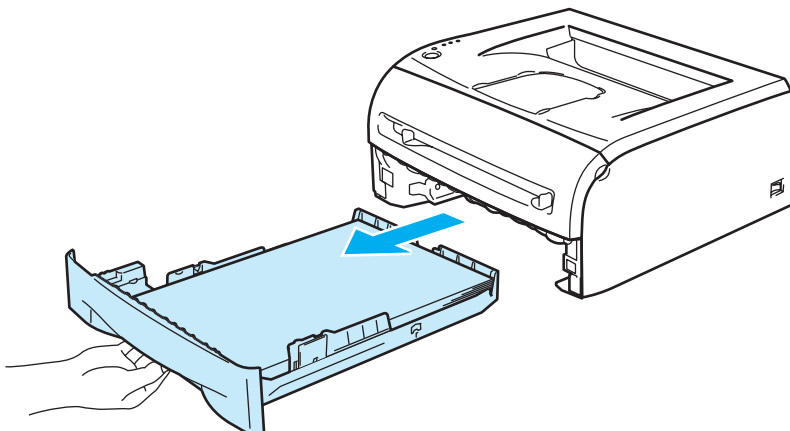
If the printer does not start printing automatically, press the **Go** button. If the printer still does not start printing, please check that all the remaining jammed paper has been removed from the printer. Then try printing again.



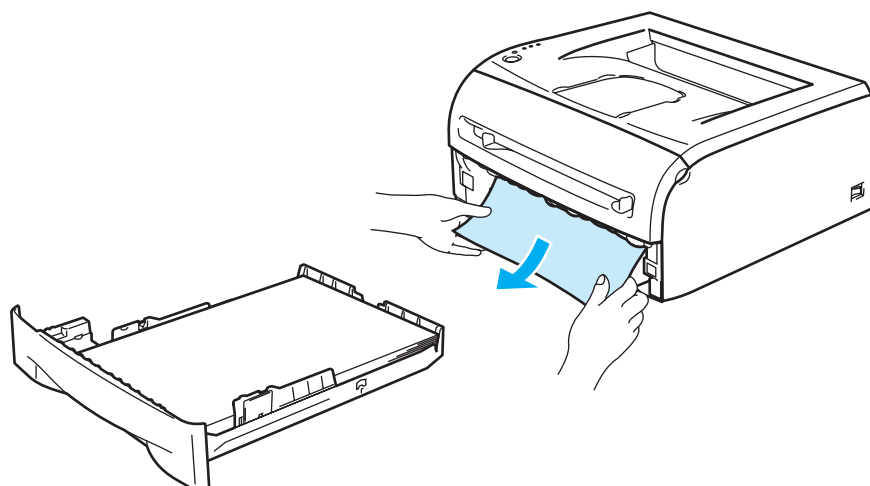
Note

Always remove all paper from the paper tray and straighten the stack when you add new paper. This helps prevent multiple sheets of paper from feeding through the printer at one time and reduces paper jams.

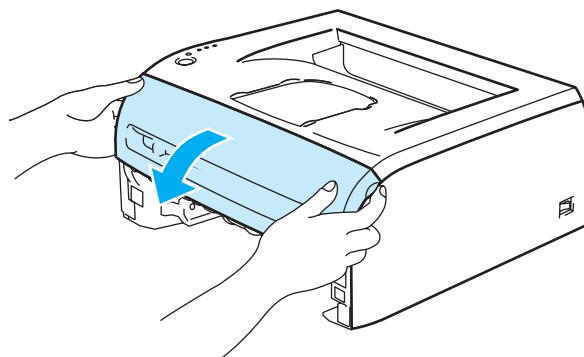
- 1 Pull the paper tray completely out of the printer.



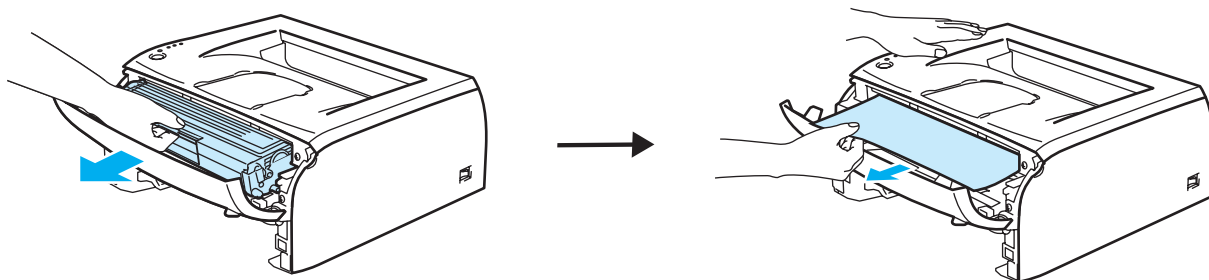
- 2 Pull the jammed paper up and out of the printer.



- 3 Open the front cover.

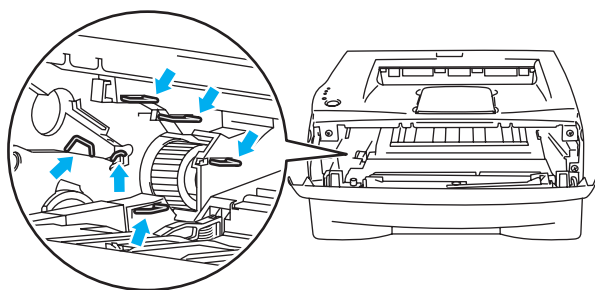


- 4 Pull out the drum unit and toner cartridge assembly slowly. The jammed paper will be pulled out with the drum unit and toner cartridge assembly.

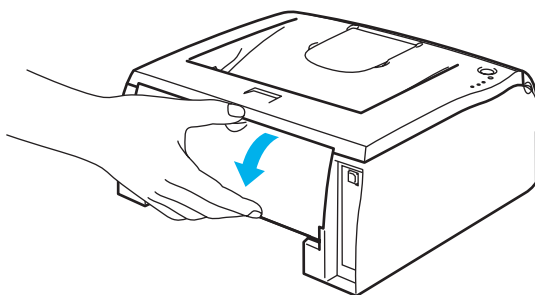


! CAUTION

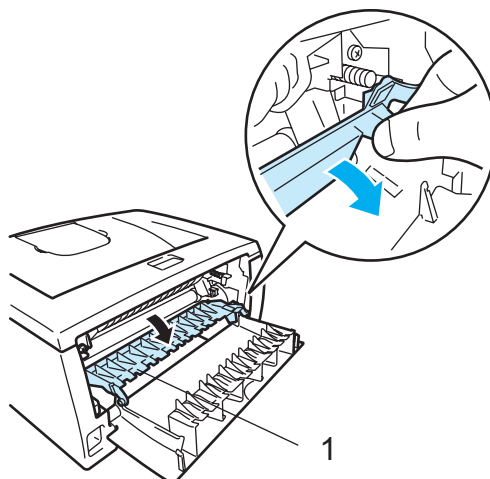
To prevent damage to the printer caused by static electricity, do not touch the electrodes shown in the illustrations.



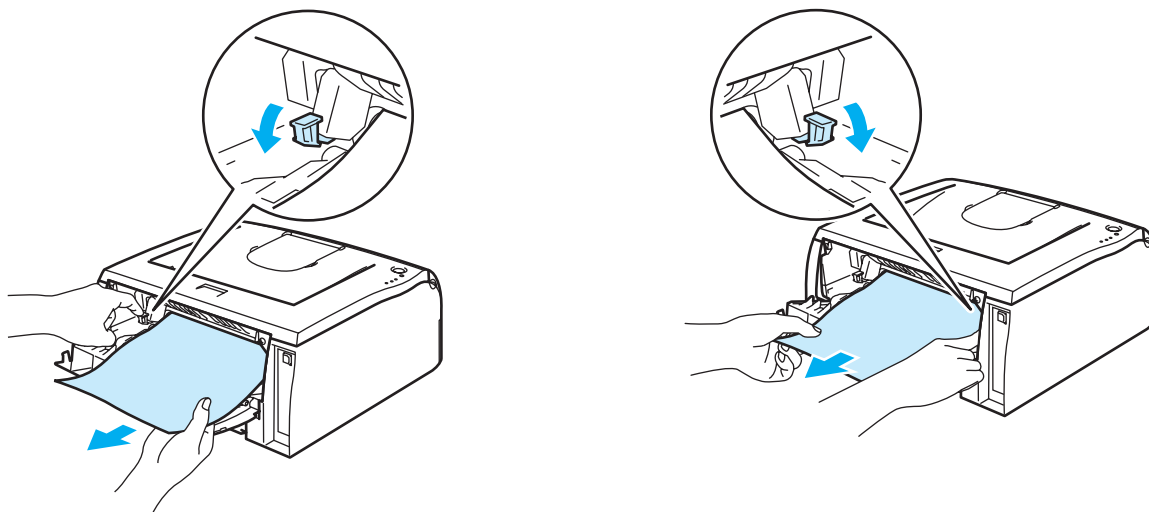
- 5 Open the back cover.



- 6 Pull the tab toward you to open the rear chute cover (1).

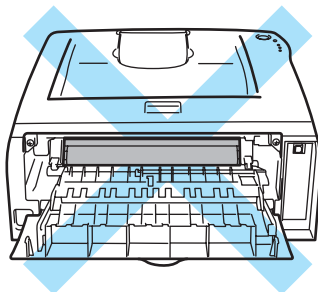


- 7 Pull the jammed paper out of the fuser unit. If the jammed paper cannot be pulled out easily, push down the tab with one hand as you gently pull the paper out with other.



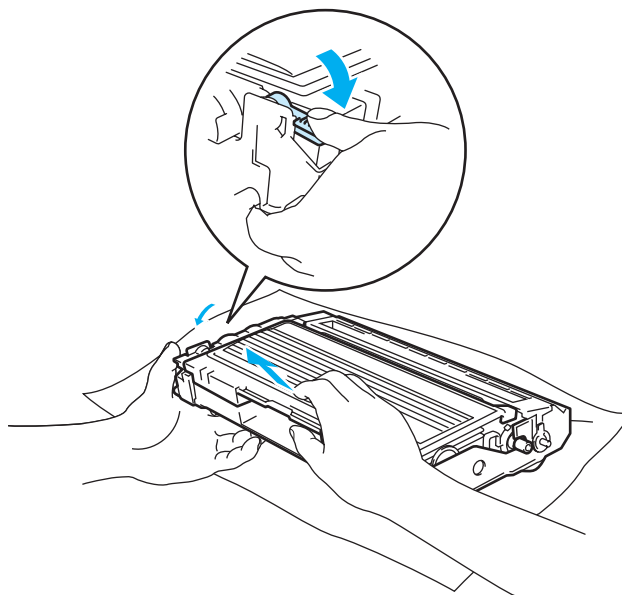
**HOT SURFACE**

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

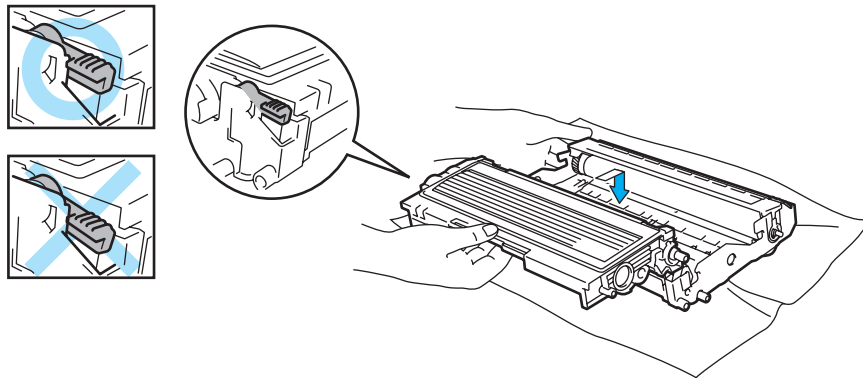


6

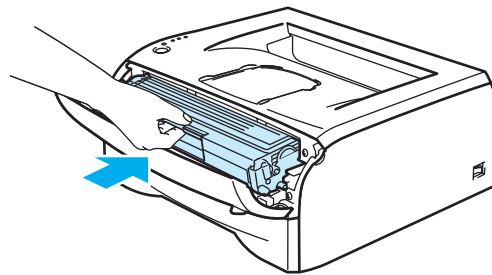
- 8 Close the back cover.
- 9 Push the lock lever down and take the toner cartridge out of the drum unit. Take out the jammed paper if there is any inside the drum unit.



- 10 Put the toner cartridge back into the drum unit until you hear it lock into place. If you put it in properly, the lock lever will lift automatically.



- 11 Put the drum unit and toner cartridge assembly back in the printer.



- 12 Put the paper tray firmly back in the printer.
- 13 Close the front cover.
- 14 Make sure that the **Error** LED is now off and the printer is ready.

Other problems

Problem	Recommendation
The printer cannot print. There was an error writing to LPT1: (or BRUSB) for the printer error message occurs on your PC.	<ul style="list-style-type: none"> ■ Check that the printer cable is not damaged or broken. ■ If you have an interface-switching device, make sure the correct printer is selected.

For Macintosh® with USB

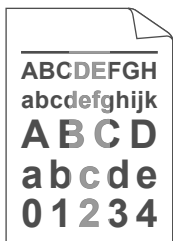
Problem	Recommendation
The printer does not appear in Chooser (Mac OS® 9.1 to 9.2) or Print Center (Mac OS® X 10.2.4 or greater).	<ul style="list-style-type: none"> ■ Check that the printer is turned on. ■ Check that the USB interface cable is connected correctly. ■ Check the printer driver is installed correctly.
Unable to print from application software.	<ul style="list-style-type: none"> ■ Make sure that the supplied Macintosh® printer driver is installed in the Hard Disk and that it is selected with Chooser (Mac OS® 9.1 to 9.2) or Print Center (Mac OS® X 10.2.4 or greater).


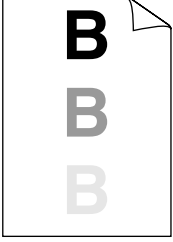

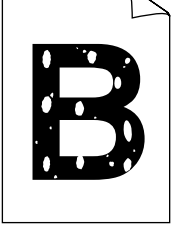
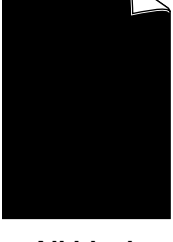
6

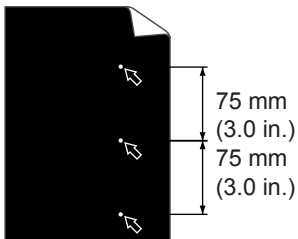
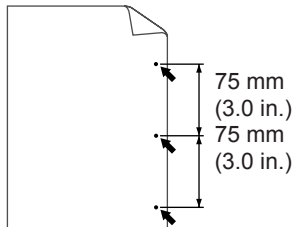
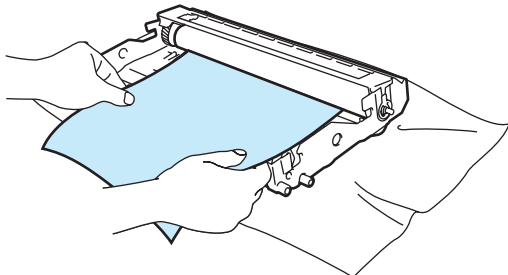
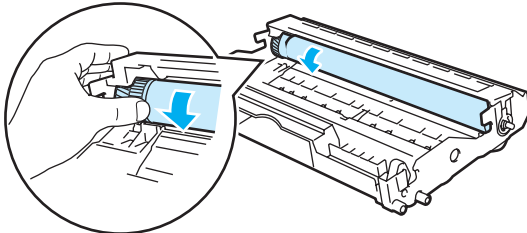
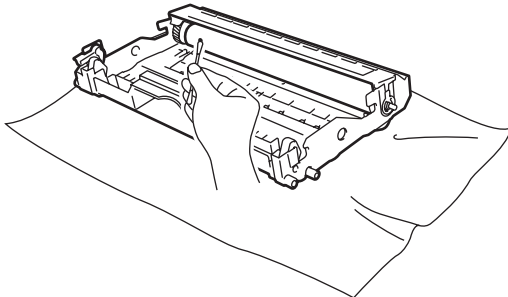
Improving the print quality

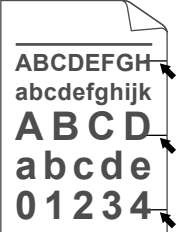
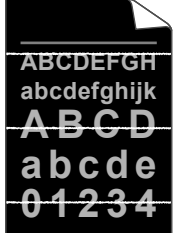
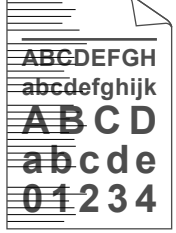
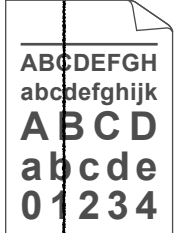
If you have a print quality problem, print a test page first (see page 40). If the printout looks good, the problem is probably not the printer. Check the interface cable or try the printer on another PC.

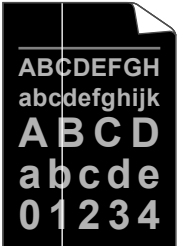

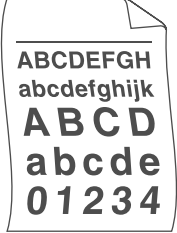
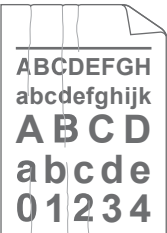
This section provides information on the following topics:

Examples of poor print quality	Recommendation
 <p>Faint</p>	<ul style="list-style-type: none"> ■ Check the printer's environment. Conditions such as humidity, high temperatures, and so on may cause this print fault. See <i>Positioning the printer</i> on page 3. ■ If the whole page is too light, Toner Save mode may be on. Turn off Toner Save mode in the printer Properties tab of the driver. ■ Try installing a new toner cartridge. See <i>Replacing the toner cartridge</i> on page 44. ■ Try installing a new drum unit. See <i>Replacing the drum unit</i> on page 49.

Examples of poor print quality	Recommendation
 <p>Grey background</p>	<ul style="list-style-type: none"> ■ Make sure that you use paper that meets the recommended specifications. See <i>What kind of paper can I use?</i> on page 4. ■ Check the printer's environment - high temperatures and high humidity can increase the amount of background shading. See <i>Positioning the printer</i> on page 3. ■ Use a new toner cartridge. See <i>Replacing the toner cartridge</i> on page 44. ■ Use a new drum unit. See <i>Replacing the drum unit</i> on page 49.
 <p>Ghost</p>	<ul style="list-style-type: none"> ■ Make sure you use paper that meets our specifications. Rough-surfaced paper or thick print media may cause this problem. See <i>What kind of paper can I use?</i> on page 4. ■ Make sure that you choose the appropriate media type in the printer driver. See <i>What kind of paper can I use?</i> on page 4. ■ Try using a new drum unit. See <i>Replacing the drum unit</i> on page 49.
 <p>Toner specks</p>	<ul style="list-style-type: none"> ■ Make sure that you use paper that meets our specifications. Rough-surfaced paper may cause the problem. See <i>What kind of paper can I use?</i> on page 4. ■ The drum unit may be damaged. Put in a new drum unit. See <i>Replacing the drum unit</i> on page 49.
 <p>Hollow print</p>	<ul style="list-style-type: none"> ■ Make sure that you use paper that meets our specifications. See <i>What kind of paper can I use?</i> on page 4. ■ Choose Thick paper mode in the printer driver, or use thinner paper than you are currently using. ■ Check the printer's environment because conditions such as high humidity can cause hollow print. See <i>Positioning the printer</i> on page 3.
 <p>All black</p>	<ul style="list-style-type: none"> ■ Clean the primary corona wire inside the drum unit by sliding the blue tab. Make sure you return the blue tab to the home position (▲). See <i>Cleaning the corona wire</i> on page 56. ■ The drum unit may be damaged. Put in a new drum unit. See <i>Replacing the drum unit</i> on page 49.

Examples of poor print quality	Recommendation
<div data-bbox="180 327 475 564">  <p>75 mm (3.0 in.) 75 mm (3.0 in.) 75 mm (3.0 in.)</p> </div> <p>White Spots on black text and graphics at 75 mm (3.0 in.) intervals</p> <div data-bbox="180 701 475 926">  <p>75 mm (3.0 in.) 75 mm (3.0 in.) 75 mm (3.0 in.)</p> </div> <p>Black Spots at 75 mm (3.0 in.) intervals</p>	<p>■ If the problem is not solved after printing a few pages, the drum unit may have glue from label stock on the OPC drum surface.</p> <p>Clean the drum unit as follows:</p> <ol style="list-style-type: none"> <li data-bbox="570 474 1503 541">1 Position the print sample in front of the drum unit, and find the exact position of the poor print. <div data-bbox="764 558 1268 831">  </div> <ol style="list-style-type: none"> <li data-bbox="570 856 1474 924">2 Turn the drum unit gear by hand while looking at the surface of the OPC drum. <div data-bbox="756 947 1279 1178">  </div> <ol style="list-style-type: none"> <li data-bbox="570 1203 1503 1308">3 When you have located the mark on the drum that matches the print sample, wipe the surface of the OPC drum with a dry cotton swab until the dust or paper powder on the surface comes off. <div data-bbox="764 1325 1268 1619">  </div> <p>Note Do not try to clean the surface of the photosensitive drum with a sharp object.</p> <p>■ The drum unit may be damaged. Put in a new drum unit. See <i>Replacing the drum unit</i> on page 49.</p>

Examples of poor print quality	Recommendation
 <p>Black toner marks across the page</p>	<ul style="list-style-type: none"> ■ The drum unit may be damaged. Put in a new drum unit. See <i>Replacing the drum unit</i> on page 49. ■ Make sure that you use paper that meets our specifications. See <i>What kind of paper can I use?</i> on page 4. ■ If you use label sheets for laser printers, the glue from the sheets may sometimes stick to the OPC drum surface. Clean the drum unit. See page 69. ■ Do not use paper that has clips or staples because they will scratch the surface of the drum. ■ If the unpacked drum unit is in direct sunlight or room light, the unit may be damaged.
 <p>White lines across the page</p>	<ul style="list-style-type: none"> ■ Make sure that you use paper that meets our specifications. A rough surfaced paper or thick print media can cause the problem. ■ Make sure that you select the appropriate media type in the printer driver. ■ The problem may disappear by itself. Try printing multiple pages to clear this problem, especially if the printer has not been used for a long time. ■ The drum unit may be damaged. Put in a new drum unit. See <i>Replacing the drum unit</i> on page 49.
 <p>Lines across the page</p>	<ul style="list-style-type: none"> ■ Clean the inside of the printer and the primary corona wire in the drum unit. See <i>Cleaning</i> on page 52. ■ The drum unit may be damaged. Put in a new drum unit. See <i>Replacing the drum unit</i> on page 49.
 <p>Black lines down the page Printed pages have toner stains down the page.</p>	<ul style="list-style-type: none"> ■ Clean the primary corona wire of the drum unit. See <i>Cleaning the corona wire</i> on page 56. ■ Make sure the primary corona wire cleaner is at the home position (▲). ■ The drum unit may be damaged. Install a new drum unit. See <i>Replacing the drum unit</i> on page 49. ■ The toner cartridge may be damaged. Put in a new toner cartridge. See <i>Replacing the toner cartridge</i> on page 44. Make sure that a torn piece of paper is not inside the printer covering the scanner window. ■ The fuser unit may be smudged. Call your dealer or Brother Customer Service.

Examples of poor print quality	Recommendation
 <p>White lines down the page</p>	<ul style="list-style-type: none"> ■ Wipe the scanner window with a soft cloth. See <i>Cleaning the inside of the printer</i> on page 53. ■ The toner cartridge may be damaged. Put in a new toner cartridge. See <i>Replacing the toner cartridge</i> on page 44.
 <p>Page skewed</p>	<ul style="list-style-type: none"> ■ Make sure the paper or other print media is loaded properly in the paper tray and that the guides are not too tight or too loose against the paper stack. ■ Set the paper guides correctly. See <i>Printing on plain paper, bond paper or transparencies from the paper tray</i> on page 7. ■ If you are using the manual feed slot, See <i>Printing on plain paper, bond paper or transparencies from the manual feed slot</i> on page 10. ■ The paper tray may be too full. See <i>Printing on plain paper, bond paper or transparencies from the paper tray</i> on page 7. ■ Check the paper type and quality. See <i>What kind of paper can I use?</i> on page 4.
 <p>Curl or wave</p>	<ul style="list-style-type: none"> ■ Check the paper type and quality. High temperatures and high humidity will cause paper to curl. See <i>What kind of paper can I use?</i> on page 4. ■ If you don't use the printer very often, the paper may have been in the paper tray too long. Turn over the stack of paper in the paper tray. Also, try fanning the paper stack and then rotating the paper 180° in the paper tray.
 <p>Wrinkles or creases</p>	<ul style="list-style-type: none"> ■ Make sure that paper is loaded properly. See <i>Printing on plain paper, bond paper or transparencies from the paper tray</i> on page 7. ■ Check the paper type and quality. See <i>What kind of paper can I use?</i> on page 4. ■ Turn over the stack of paper in the tray or try rotating the paper 180° in the input tray.

Solving print problems

Problem	Recommendation
The printer prints unexpectedly or it prints garbage data.	<ul style="list-style-type: none"> ■ Make sure the printer cable is not too long. We recommend you use a parallel or USB cable that is less than 2 meters (6.5 feet) in length. ■ Make sure that the printer cable is not damaged or broken. ■ If you are using an interface-switching device, remove it. Connect your computer directly to your printer, and then try again. ■ Check that you have chosen the appropriate printer driver with 'Set as Default'. ■ Make sure that the printer is not connected to the same port that is also connected to a storage device or scanner. Take away all other devices and connect the port only to the printer. ■ Turn off Printer Status Monitor in the Device Options tab in the printer driver.
The printer cannot print full pages of a document. An error message MEMORY FULL is printed out.	<ul style="list-style-type: none"> ■ Press the Go button to print the data left in the printer. Cancel the print job if you want to delete the data remaining in the printer, see <i>Cancel printing</i> on page 39. ■ Reduce the print resolution or reduce the complexity of your document.
The printer cannot print full pages of a document. An error message PRINT OVERRUN is printed out.	<ul style="list-style-type: none"> ■ Press the Go button to print the data left in the printer. Cancel the print job if you want to delete the data remaining in the printer, see <i>Cancel printing</i> on page 39. ■ If this does not clear the error, reduce the complexity of your document or reduce the print resolution. ■ Set page protection to AUTO by using the supplied Windows® driver or Remote Printer Console program.
My headers or footers appear when I view my document on the screen but they do not show up when I print it.	<ul style="list-style-type: none"> ■ Adjust the top and bottom margins of your document.

Printer specifications

Engine

Model		HL-2035
Technology		Electrophotographic
Print speed		Up to 18 ppm (A4 size)
First print time		Less than 10 sec ¹
Resolution	Windows® 98/Me, Windows® 2000/XP, Windows Vista®	HQ1200 600 dpi 300 dpi
	Mac OS®	HQ1200 600 dpi 300 dpi
	Linux	600 dpi 300 dpi

¹ From paper tray

Controller

Model		HL-2035
Processor		Fujitsu SPARClite 96MHz
Memory	Standard	8 MB
Interface	Standard	Full-Speed USB 2.0 ¹
Emulation		GDI

¹ USB is not supported under Windows® 95 or Windows NT®4.0.

Software

Model	HL-2035
Printer driver	GDI Driver for Windows® 98/Me, Windows® 2000/XP, Windows Vista®
	Brother Laser Driver for Mac OS® 9.1 to 9.2 and Mac OS® X 10.2.4 or greater
	GDI Printer Driver for Linux
Utilities	Interactive Help ¹

¹ Instructional animations for problem solving

Control panel

Model	HL-2035
LED	4 LEDs
Button	1 button

A

Paper handling

Model		HL-2035
Paper Input ¹	Manual feed slot	1 sheet
	Paper tray	250 sheets
Paper Output ¹	Face-down	100 sheets
Duplex		Manual Duplex

¹ Calculated with 80 g/m² (20 lb) paper

Media specifications

Model		HL-2035
Media types	Manual feed slot	Plain paper, Bond paper, Recycled paper, Envelope, Labels, and Transparencies
	Paper tray	Plain paper, Bond paper, Recycled paper, and Transparencies ¹
Media weights	Manual feed slot	60 to 161 g/m ² (16 to 43 lb)
	Paper tray	60 to 105 g/m ² (16 to 28 lb)
Media sizes	Manual feed slot	Width: 69.9 to 215.9mm (2.75 to 8.5 in.) Length: 116 to 406.4 mm (4.57 to 16 in.)
	Paper tray	A4, Letter, Legal ² , B5(JIS), B5(ISO), Executive, A5, A6, B6(ISO)

¹ Up to 10 sheets

² Legal paper is not available in some regions.

Supplies

Model		HL-2035
Toner	Starter ¹	Approx. 1,000 pages A4/Letter pages ²
	Standard	Approx. 1,500 pages A4/Letter pages ²
Drum		12,000 A4/Letter pages (1 page / job)

¹ Depends on the model and country you bought the printer in.

² Approx. cartridge yield is declared in accordance with ISO/IEC 19752.

Dimensions / weights

Model	HL-2035
Dimensions (W × D × H)	371 × 361 × 165.5 mm (14.6 × 14.2 × 6.5 in.)
Weights	Approx. 5.4 kg (12.0 lb) not including the drum unit and toner cartridge Approx. 6.5 kg (14.3 lb) including the drum unit and toner cartridge

Other

Model		HL-2035	
Power consumption		Printing	Average 450 W at 25 °C (77 °F)
		Standby	Average 70 W at 25 °C (77 °F)
		Sleep	Average 5 W
Noise level	Sound Pressure	Printing	Less than 51 dB (A)
		Standby	Less than 30 dB (A)
	Sound power	Printing	6.2 Bell (A) (Office equipment with LWAd > 6.3 Bell (A) is not suitable for operation in rooms where predominantly intellectual work is done. Due to their noise emissions, these devices should be set up in separate rooms.)
		Standby	4.3 Bell (A)
Ecology	Power save		Yes
	Toner save		Yes

A

System Requirements

Computer Platform & Operating System Version		Processor Speed	Minimum RAM	Recommended RAM	Available Hard Disk Space
Windows® Operating System	98, 98SE	486/66 MHz	8 MB	16 MB	40 MB
	2000 Professional	Pentium 133 MHz	64 MB	128 MB	50 MB
	Me	Pentium 150 MHz	32 MB	64 MB	50 MB
	XP	Pentium 300 MHz	128 MB	128 MB	50 MB
	Windows Vista®	Intel® Pentium® 4 or equivalent 64-bit supported CPU	512 MB	1 GB	50 MB
Macintosh® Operating System ¹	OS® 9.1 - 9.2	All base models meet minimum requirements	32 MB	64 MB	50 MB
	Mac OS® X 10.2.4 or greater		128 MB	160 MB	

¹ Power Macintosh with an Apple original pre-installed USB port.

Important information for choosing your paper

This section provides information to help you choose paper to use with this printer.



Note

If you use paper other than the ones recommended, a paper jam or misfeeding may occur in the printer. See *Recommended paper* on page 5.

Before you purchase a large quantity of paper

Make sure the paper is suitable for the printer.

Paper for plain paper copies

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

Basis weight

The basis weight of the paper in general use varies in different countries. We recommend that you use paper that weighs between 75 and 90 g/m² (20 and 24 lb), although this printer is able to cope with thinner or thicker paper than these weights.

Unit	Europe	USA
g/m ²	80 to 90	75 to 90
lb		20 to 24

Long grain and short grain

The pulp fiber of the paper is aligned during paper manufacturing. What we call long grain paper is paper where the fiber is parallel to the paper carriage direction of the paper.

Paper can be classified into two types, long grain and short grain. Long grain paper's fiber direction is parallel to the carriage direction of the paper in the printer. Short grain paper's fiber direction is vertical to the carriage direction of the paper in the printer. Though most plain paper for copying is long grain, some is short grain. We recommend that you use long grain paper for this printer. Short grain paper is too weak for the paper carriage of the printer.

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, recently neutralized paper is taking the place of acid paper because of environment or preservation issues.

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

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

Print surface

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

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

Moisture content

Moisture content is the amount of water left in the paper after manufacture. It is one of the important characteristics of the paper. This can change greatly depending on the storage environment, although usually paper contains about 5% water by weight. Because paper often absorbs water, the amount of water can sometimes be about 10% in a high humidity environment. When the amount of water increases, the characteristic of the paper changes greatly. The fixing of the toner may become worse. For storage of the paper and during use, we recommend that the humidity of the surrounding environment is between 50% and 60%.

Rough estimate of basis weight

g/m ²	lb	
	Bond	Index
60	16	
64	17	
75	20	
90	24	
105	28	
120	32	
135	36	
161	43	90
200	53	110

Paper size

Paper size	mm	in.
Letter		8.5 × 11 in.
Legal		8.5 × 14 in.
Executive		7.25 × 10.5 in.
A4	210 × 297 mm	
A5	148 × 210 mm	
A6	105 × 148 mm	
Envelope Monarch		3.875 × 7.5 in.
Envelope #9		3.875 × 7.9 in.
Envelope #10		4.12 × 9.5 in.
Envelope #11		4.5 × 10.375 in.
Envelope DL	110 × 220 mm	
Envelope C5	162 × 229 mm	
Envelope C6	114 × 162 mm	
B5 (JIS)	182 × 257 mm	
B5 (ISO)	176 × 250 mm	
B6	125 × 176 mm	
Folio		8.5 × 13 in.

Appendix (For Europe and Other Countries)

Brother Numbers

IMPORTANT: For technical and operational help, you must call the country where you bought the printer. Calls must be made from within that country.

Register your product

By registering your Brother product, you will be recorded as the original owner of the product.

Your registration with Brother:

- may serve as a confirmation of the purchase date of your product should you lose your receipt;
- may support an insurance claim by you in the event of product loss covered by insurance; and,
- will help us to notify you of enhancements to your product and special offers.

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 Printer needs. You can download the latest drivers, software and utilities, read FAQs and troubleshooting tips to learn how to get the most from your Brother product.

<http://solutions.brother.com>

You can check here for the Brother driver updates.

Customer Service

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

Service center locations

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

Important information: Regulations

Radio interference (220 to 240 volt model only)

This printer follows EN55022 (CISPR Publication 22)/Class B.

IEC 60825-1 specification (220 to 240 volt model only)

This printer is a Class 1 laser product as defined in IEC 60825-1 specifications. The label shown below is attached in countries where it is needed.



This printer has a Class 3B laser diode which produces invisible laser radiation in the scanner unit. You should not open the scanner unit under any circumstances.

! Caution

Use of controls or adjustments or performance of procedures other than those specified in this User's Guide may result in hazardous radiation exposure.

For Finland and Sweden

LUOKAN 1 LASERLAITE

KLASS 1 LASER APPARAT

! Varoitus!

Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

! Varning

Om apparaten används på annat sätt än i denna Bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

Internal laser radiation

Maximum radiation power: 5 mW

Wave length: 770 - 810 nm

Laser class: Class 3B

EU Directive 2002/96/EC and EN50419



(European Union only)

This equipment is marked with the above recycling symbol. It means that at the end of the life of the equipment you must dispose of it separately at an appropriate collection point and not place it in the normal domestic unsorted waste stream. This will benefit the environment for all. (European Union only)

IMPORTANT - For Your Safety

To ensure safe operation the supplied three-pin plug must be inserted only into a standard three-pin power outlet that is properly grounded through the standard electrical wiring.

Extension cords used with this printer must be three-pin plug type and correctly wired to provide proper grounding. Incorrectly wired extension cords may cause personal injury and equipment damage.

The fact that the equipment operates satisfactorily does not imply that the power is grounded and that the installation is completely safe. For your safety, if in any doubt about the effective grounding of the power, call a qualified electrician.

Disconnect device

You must install this printer near a power outlet that is easily accessible. In case of an emergency, you must disconnect the power cord from the power outlet to shut off the power completely.

IT power system (For Norway only)

This product is also designed for an IT power system with phase-to-phase voltage 230V.

Wiring information (for UK)

Important

If you need to replace the plug fuse, fit a fuse that is approved by ASTA to BS1362 with the same rating as the original fuse.

Always replace the fuse cover. Never use a plug that does not have a cover.

Warning - This printer must be earthed.

The wires in the mains lead are coloured in line with the following code:

Warning - This printer must be earthed.

The wires in the mains lead are coloured in line with the following code:

■ **Green and Yellow:Earth**

■ **Blue: Neutral**

■ **Brown: Live**

If in any doubt, call a qualified electrician.

EC Declaration of Conformity



EC Declaration of Conformity

Manufacturer

Brother Industries Ltd.
15-1, Naeshiro-cho, Mizuho-ku, Nagoya 467-8561 Japan

Plant

Brother Technology (ShenZhen) Ltd.,
NO6 Gold Garden Ind. Nanling Buji, Longgang, Shenzhen, China

Herewith declare that:

Products description : Laser Printer
Product Name : HL-2035
Model Number : HL-20

are in conformity with provisions of the Directives applied : Low Voltage Directive
2006/95/EC and the Electromagnetic Compatibility Directive 2004/108/EC.

Harmonized standards applied :

Safety	EN60950-1:2001
EMC	EN55022: 1998 +A1: 2000 +A2: 2003 Class B EN55024: 1998 +A1: 2001 +A2: 2003 EN61000-3-2: 2006 EN61000-3-3: 1995 +A1: 2001 +A2:2005

Year in which CE marking was first affixed : 2008

Issued by : Brother Industries, Ltd.

Date : 6th February, 2008

Place : Nagoya, Japan

Signature :

Junji Shiota
General Manager
Quality Management Dept.
Printing & Solutions Company

C

Index

A

Advanced tab 23

B

Back view 2
 Basic tab 22
 Brother Solutions Center 20

C

Cancel printing 39
 Carton contents 1
 Cartridge position error 35
 Cleaning 52
 Control panel 33, 74
 Control panel button 39
 Corona wire 47, 56, 57

D

Device options 25
 Dimensions 75
 Drum 75
 Drum life end soon 35
 Drum unit 48
 Duplex printing 17

E

Emulation 73
 Envelopes 13, 16
 Error messages 59, 60

F

Front view 2

I

Interface 73

L

LED 33
 Linux 20

M

Macintosh® 29

Manual duplex printing 17
 Manual feed slot 10, 13, 18
 Media specifications 75
 Memory 73
 Memory full 36

N

No paper 35, 36

O

OPC drum 69

P

Paper 4, 77
 Paper handling 74
 Paper jams 36, 61
 Plain paper 5
 Power supply 3
 Print media 4
 Print overrun 36
 Print quality 67
 Print test page 40
 Printable area 6
 Printer driver 22, 31, 74
 Printer settings 41
 Processor 73

R

Register your product 80
 Reprint 26, 39

S

Scanner window 55
 Service call 37
 Service centres (Europe and other countries) 80
 Software 32
 Specifications 73
 Support tab 28
 Symbol 79
 System requirements 76

T

Toner cartridge 43, 75
 Toner life end 35, 44
 Toner low 34

Trademarksiv

Tray settings tab 28

U

Utilities 74

W

Weights 75