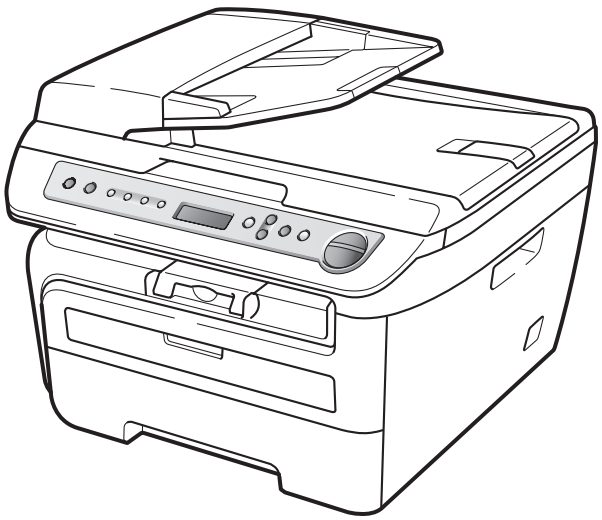
USER'S GUIDE

DCP-7030
DCP-7040
DCP-7045N



CE

Version A
UK/IRE/SAF

If you need to call Customer Service

Please complete the following information for future reference:

Model Number: DCP-7030, DCP-7040 and DCP-7045N (Circle your model number)

Serial Number: [1] _____

Date of Purchase: _____

Place of Purchase: _____

[1] The serial number is on the back of the unit. Retain this User's Guide with your sales receipt as a permanent record of your purchase, in the event of theft, fire or warranty service.

Register your product on-line at

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

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

- may serve as confirmation of the purchase date of your product should you lose your receipt; and
- may support an insurance claim by you in the event of product loss covered by insurance.

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

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EC Declaration of Conformity

EC Declaration of Conformity

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Brother Industries (Vietnam) Ltd.
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Herewith declare that:

Products description : **Laser Printer**
Product Name : **DCP-7030, DCP-7040, DCP-7045N**

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

Standards applied :

Harmonized : Safety EN60950-1:2001+A11:2004

EMC EN55022: 2006 +A1: 2007 Class B
EN55024: 1998 +A1: 2001 +A2: 2003
EN61000-3-2: 2006
EN61000-3-3: 1995 +A1: 2001 +A2: 2005

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Table of Contents

Section I General

1 General information 2

Using the documentation 2
Symbols and conventions used in the documentation 2
Accessing the Software User's Guide and Network User's Guide (DCP-7045N only) 3
Viewing documentation 3
Control panel overview 5

2 Loading paper and documents 6

Loading paper and print media 6
Loading paper in the paper tray 6
Loading paper in the manual feed slot 7
Unprintable area 10
Acceptable paper and other print media 11
Recommended paper and print media 11
Type and size of paper 11
Handling and using special paper 12
Loading documents 15
Using the automatic document feeder (ADF) (DCP-7040 and DCP-7045N) 15
Using the scanner glass 16

3 General setup 17

Paper settings 17
Paper type 17
Paper size 17
Volume settings 17
Beeper volume 17
Ecology features 18
Toner Save 18
Sleep time 18
LCD contrast 19
User Settings List 19
Network Configuration List (DCP-7045N only) 19

Section II Copy

4 Making copies 22

How to copy 22
Entering copy mode 22
Making a single copy 22

Making multiple copies 22
Stop copying 22
Copy options (temporary settings) 23
Enlarging or reducing the image copied 23
Adjusting contrast 24
Using the Options key 25
Improving copy quality 25
Sorting copies using the ADF (DCP-7040 and DCP-7045N) 26
Making N in 1 copies (page layout) 26
Out of memory message 27

Section III Software

5 Software and Network (DCP-7045N only) features 30

How to read HTML User's Guide 30
For Windows® 30
For Macintosh 31

Section IV Appendixes

A Safety and legal 34

Choosing a location 34
Important information 35
Safety precautions 35
IEC60825-1+A2:2001 Specification 38
Disconnect device 38
Wiring information (U.K. only) 38
LAN connection (DCP-7045N only) 39
Radio interference 39
EU Directive 2002/96/EC and EN50419 39
International ENERGY STAR® Compliance Statement 40
Important safety instructions 40
Trademarks 42

B Troubleshooting and routine maintenance 43

Troubleshooting 43
If you are having difficulty with your machine 43
Improving the print quality 48
Error and maintenance messages 54
Document jams (DCP-7040 and DCP-7045N only) 56
Paper jams 57
Routine maintenance 62
Cleaning the outside of the machine 62
Cleaning the scanner glass 63
Cleaning the laser scanner window 63
Cleaning the corona wire 65

Cleaning the drum unit 67
Replacing the consumable items 69
Replacing a toner cartridge 69
Replacing the drum unit 73
Changing LCD language 76
Machine information 76
Checking the serial number 76
Checking the page counters 76
Checking the Drum life 76
Packing and shipping the machine 77

C Menu and features 78

On-screen programming 78
Menu table 78
Memory storage 78
Menu keys 78
How to access the menu mode 79
Menu table 80

D Specifications 85

General 85
Print media 87
Copy 88
Scan 89
Print 90
Interfaces 90
Computer requirements 91
Consumable items 93
Ethernet wired network (DCP-7045N only) 94

E Glossary 95

F Index 96

Section I

General

General information	2
Loading paper and documents	6
General setup	17

1 General information

Using the documentation

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

Symbols and conventions used in the documentation

The following symbols and conventions are used throughout the documentation.

Bold	Bold style identifies keys on the machine control panel or computer screen.
Italics	Italicized style emphasizes an important point or refers you to a related topic.
`Courier New`	Courier New font identifies the messages shown on the LCD of the machine.

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

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

Electrical Hazard icons alert you to a possible electrical shock.

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

Incorrect setup icons alert you to devices and operations that are not compatible with the machine.

Note icons give useful tips.

Note

Illustrations in this User's Guide are based on the DCP-7045N.

Accessing the Software User's Guide and Network User's Guide (DCP-7045N only)

This User's Guide does not contain all the information about the machine such as how to use the advanced features of Printer, Scanner and Network (DCP-7045N only). When you are ready to learn detailed information about these operations, read the **Software User's Guide** and **Network User's Guide** (DCP-7045N only).

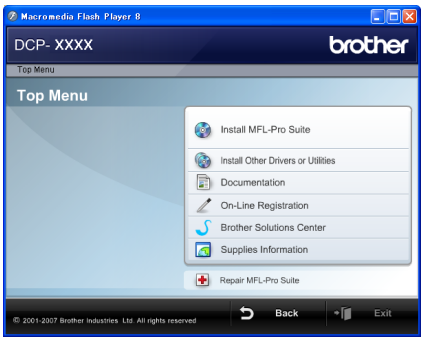
Viewing documentation

Viewing documentation (Windows®)

To view the documentation, from the **Start** menu, point to **Brother**, **DCP-XXXX** (where XXXX is your model name) from the program group, and then click **User's Guides in HTML format**.

If you have not installed the software, you can find the documentation by following the instructions below:

1. Turn on your PC.
   Insert the Brother CD-ROM labelled Windows® into your CD-ROM drive.
2. If the language selection screen appears, click your language.
3. If the model name screen appears, click your model name.The CD-ROM main menu will appear.



If this window does not appear, use Windows® Explorer to find and run the Start.exe program from the root directory of the Brother CD-ROM.

4. Click **Documentation**.
5. Click the documentation you want to read:

   - HTML documents (3 manuals): **User's Guide** for stand-alone operations, **Software User's Guide** and **Network User's Guide** (DCP-7045N only) in HTML format.

     This format is recommended for viewing on your computer.

   - PDF documents (4 manuals):

     User's Guide for stand-alone operations, **Software User's Guide**, **Network User's Guide** (DCP-7045N only) and **Quick Setup Guide**.

     This format is recommended for printing the manuals. Click to go to the Brother Solutions Center, where you can view or download the PDF documents. (Internet access and PDF Reader software are required.)

How to find scanning instructions

There are several ways you can scan documents. You can find the instructions as follows:

Software User's Guide:

- Scanning a document using the TWAIN driver in Chapter 2
- Scanning a document using the WIA driver (For Windows® XP/Windows Vista® only) in Chapter 2
- Using ControlCenter3 in Chapter 3
- Network Scanning in Chapter 4 (DCP-7045N only)

ScanSoft™ PaperPort™ 11SE with OCR How-to-Guides

- The complete ScanSoft™ PaperPort™ 11SE with OCR How-to-Guides can be viewed from the Help selection in the ScanSoft™ PaperPort™ 11SE application.

Viewing documentation (Macintosh)

1. Turn on your Macintosh.
   Insert the Brother CD-ROM labelled Macintosh into your CD-ROM drive.
2. The following window will appear.

3. Double-click the **Documentation** icon.
4. If the language selection screen appears, double-click your language.
5. Double-click the top page file to view the **User's Guide**, **Software User's Guide** and **Network User's Guide** (DCP-7045N only) in HTML format.
6. Click the documentation you want to read.
   - **User's Guide**
   - **Software User's Guide**
   - **Network User's Guide** (DCP-7045N only)

Note

The documents are also available in PDF format (4 manuals):
User's Guide for stand-alone operations, **Software User's Guide**, **Network User's Guide** (DCP-7045N only) and **Quick Setup Guide**.
The PDF format is recommended for printing the manuals.

Double-click **Brother Solutions Center** icon to go to the Brother Solutions Center, where you can view or download the PDF documents. (Internet access and PDF Reader software are required.)

How to find scanning instructions

There are several ways you can scan documents. You can find the instructions as follows:

Software User's Guide:

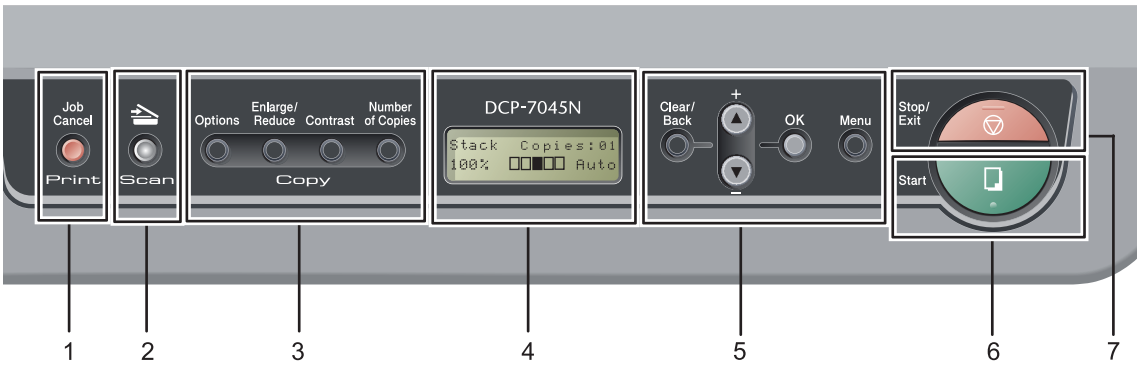
- Scanning in Chapter 9
- Using ControlCenter2 in Chapter 10
- Network Scanning in Chapter 11 (DCP-7045N only)

Presto! PageManager User's Guide:

- The complete Presto! PageManager User's Guide can be viewed from the Help selection in the Presto! PageManager application.

Control panel overview

DCP-7030, DCP-7040 and **DCP-7045N** have the same keys.



1 Print key

Job Cancel

Cancels a programmed print job and clears it from the machine's memory.

To cancel multiple print jobs, hold down this key until the LCD shows `Job Cancel (All)`.

2 Scan key

Puts the machine in Scan mode. (For details about scanning, see the *Software User's Guide on the CD-ROM*.)

3 Copy keys:

Options

You can quickly and easily choose temporary settings for copying.

Enlarge/Reduce

Reduces or enlarges copies.

Contrast

You can increase or decrease the contrast of your copies.

Number of Copies

Use this key to make multiple copies.

4 LCD

Displays messages to help you set up and use your machine.

5 Menu keys:

Clear/Back

Deletes entered data or lets you cancel the current setting.

▲ + or ▼ -

Press to scroll through the menus and options.

OK

Lets you store your settings in the machine.

Menu

Lets you access the Menu to program your settings in this machine.

6 Start

Lets you start making copies or scanning.

7 Stop/Exit

Stops an operation or exits from a menu.

2 Loading paper and documents

Loading paper and print media

The machine can feed paper from the standard paper tray or manual feed slot.

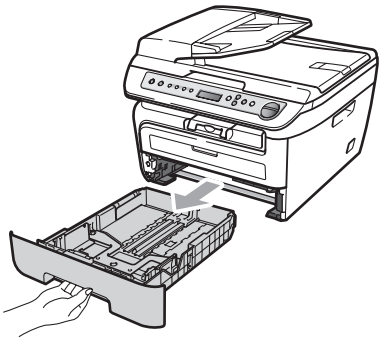
When you put paper into the paper tray, note the following:

- If your application software supports paper size selection on the print menu, you can choose it through the software. If your application software does not support it, you can set the paper size in the printer driver or by using the control panel buttons.
- Before using paper that has holes in it, such as organizer sheets, you must ‘fan’ the stack to avoid paper jams and misfeeds.

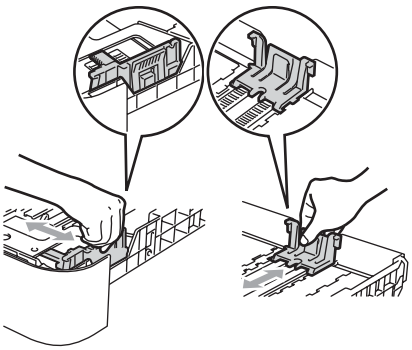
Loading paper in the paper tray

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

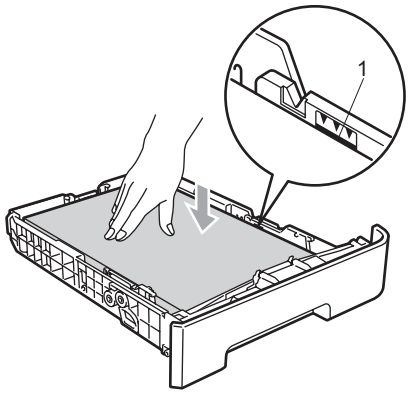
1. Pull the paper tray completely out of the machine.



2. While pressing the green paper guide release lever, slide the paper guides to fit the paper size. Make sure that the guides are firmly in the slots.



3 Put paper in the tray, and make sure that the paper is below the maximum paper mark (1). The side to be printed on must be face down.

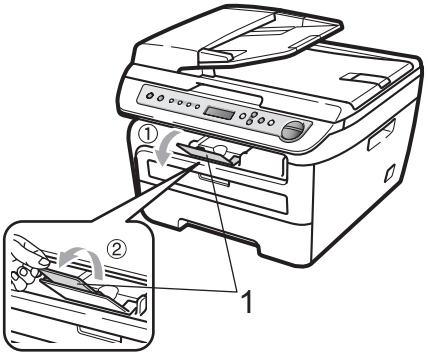


CAUTION

To prevent damage to your machine caused by paper misfeeding, make sure the paper guides touch the sides of the paper.

4 Put the paper tray firmly back in the machine. Make sure that it is completely inserted into the machine.

5 Fold out the support flap (1) to prevent paper from sliding off the face-down output tray.



Loading paper in the manual feed slot

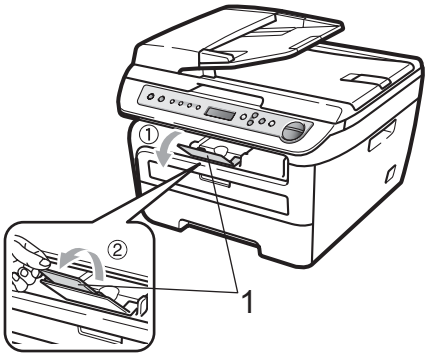
You can load envelopes and special print media one at a time into this slot. Use the manual feed slot to print or copy on labels, envelopes or thicker paper.

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

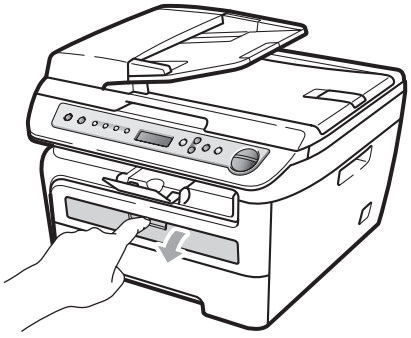
Note

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

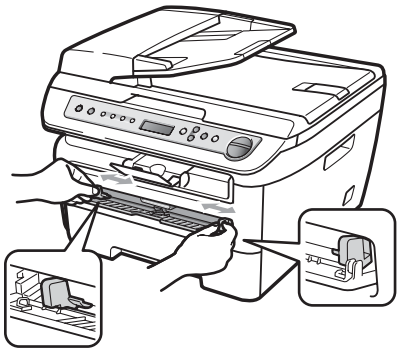
1 Fold out the support flap (1) to prevent paper from sliding off the face-down output tray, or remove each page as soon as it comes out of the machine.



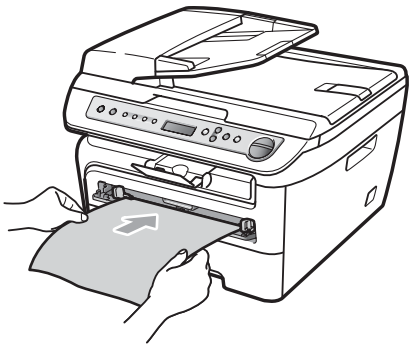
2 Open the manual feed slot cover.



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



4 Using both hands, put one sheet of paper or one transparency in the manual feed slot until the front edge touches the paper feed roller. When you feel the machine pull in the paper, let go.



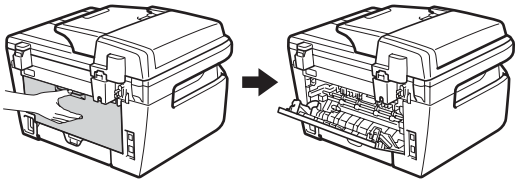
Printing on thick paper, bond paper, labels and envelopes

When the back output tray is pulled down, the machine has a straight paper path from the manual feed slot through to the back of the machine. Use this paper feed and output method when you want to print on thick paper, labels or envelopes.

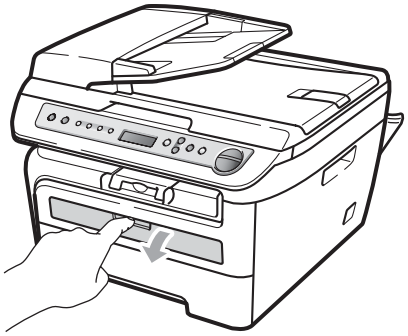
Note

- Remove each printed sheet or envelope immediately to prevent a paper jam.
- The machine automatically turns on the Manual Feed mode when you put paper in the manual feed slot.

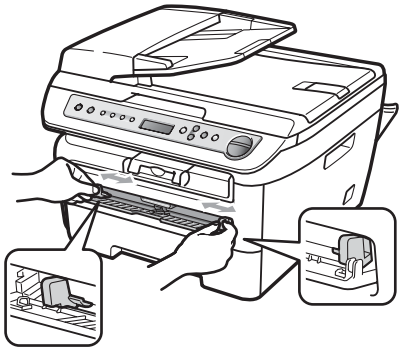
1 Open the back cover (back output tray).



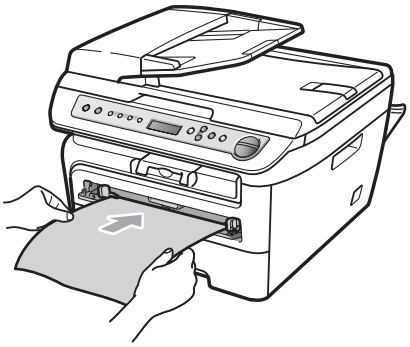
2 Open the manual feed slot cover.

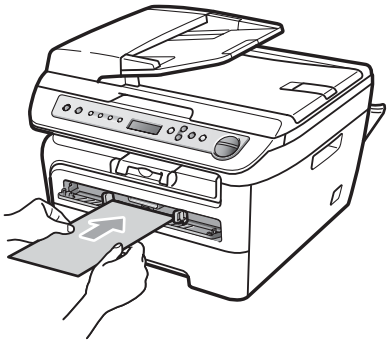


3 Using both hands, slide the manual feed slot paper guides to the width of the paper that you are going to use.



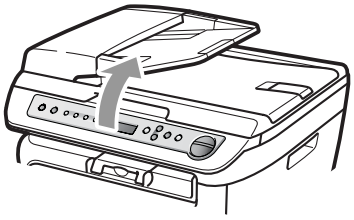
4 Using both hands, put one sheet of paper or one envelope in the manual feed slot until the front edge of the paper or envelope touches the paper feed roller. When you feel the machine pull in the paper, let go.



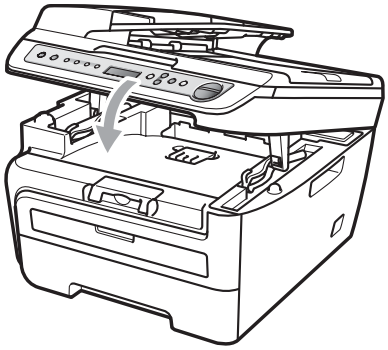


Note

- Put the paper into the manual feed slot with the side to be printed face up.
- Make sure that the print media (See *Acceptable paper and other print media* on page 11) 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 correctly, resulting in a skewed printout or a paper jam.
- Do not put more than one sheet of paper in the manual feed slot at any one time, as it may cause a jam.
- If you put any print media in the manual feed slot before the machine is in the Ready state, the print media may be ejected without being printed on.
- To easily remove a small printout from the output tray, lift up the scanner cover by using both hands as shown in the illustration.



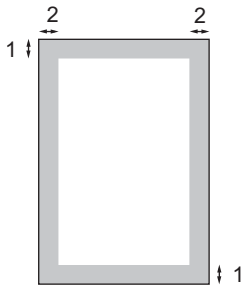
- You can still use the machine while the scanner cover is up. To close the scanner cover, push it down with both hands.



Unprintable area

Unprintable area for copies

The printable area of your machine begins at approximately 3 mm from the top and bottom and 2 mm from both sides of the paper.



1 3 mm

2 2 mm

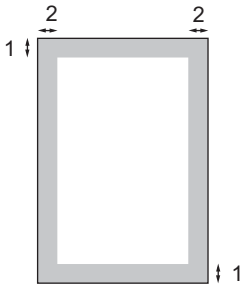
Note

This unprintable area shown above is for a single copy or a 1 in 1 copy using A4 size paper. The unprintable area changes with the paper size.

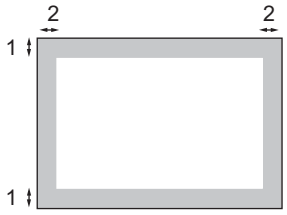
Unprintable area when printing from a computer

When using the printer driver the printable area is smaller than the paper size, as shown below.

Portrait



Landscape



		Windows® printer driver and Macintosh printer driver	BRScript Driver for Windows® and Macintosh (DCP-7045N only)
Portrait	1	4.23 mm	4.23 mm
	2	6.01 mm	4.23 mm
Landscape	1	4.23 mm	4.23 mm
	2	5 mm	4.23 mm

Note

The unprintable area shown above is for A4 size paper. The unprintable area changes with the paper size.

Acceptable paper and other print media

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

You can use the following types of print media: plain paper, bond paper, recycled paper, transparencies, labels or envelopes.

For best results, follow the instructions below:

- Use paper made for plain paper copying.
- Use paper that is 75 to 90 g/m^2.
- Use labels and transparencies which are designed for use in laser machines.
- Do not put different types of paper in the paper tray at the same time because it may cause paper jams or misfeeds.
- For correct printing, you must choose the same paper size from your software application as the paper in the tray.
- Avoid touching the printed surface of the paper immediately after printing.
- When you use transparencies remove each sheet immediately to prevent smudging or paper jams.
- Use long grain paper with a neutral Ph value, and a moisture content of approx. 5%.

Recommended paper and print media

To get the best print quality, we suggest using the following paper.

Paper Type	Item
Plain Paper	Xerox Premier TCF 80 g/m^2 Xerox Business 80 g/m^2
Recycled Paper	Xerox Recycled Supreme 80g/m^2
Transparency	3M CG3300
Labels	Avery laser label L7163
Envelope	Antalis River series (DL)

Type and size of paper

The machine loads paper from the installed standard paper tray or manual feed slot.

Standard paper tray

Since the standard paper tray is a universal type, you can use any of the paper sizes (one paper type and size at a time) listed in the table in *Paper capacity of the paper trays* on page 12. The standard paper tray can hold up to 250 sheets of Letter/A4 size paper (80 g/m^2). Paper can be loaded up to the maximum paper mark on the sliding paper width guide.

Manual Feed Slot

The manual feed slot can hold a sheet with a size of 76.2 to 220 mm wide and 116 to 406.4 mm long. You can use the manual feed slot if you are using special paper, envelopes or labels.

Paper capacity of the paper trays

	Paper size	Paper types	No. of sheets
Paper Tray	A4, Letter, Executive, A5, A6, B5, B6.	Plain paper and recycled paper	up to 250 [80 g/m^2]
		Transparency	up to 10
Manual Feed Slot	Width: 76.2 to 220 mm Length: 116 to 406.4 mm	Plain paper, recycled paper, bond paper, envelopes, labels and transparencies	1

Recommended paper specifications

The following paper specifications are suitable for this machine.

Basis weight	75-90 (g/m^2)
Thickness	80-110 µm
Roughness	Higher than 20 sec.
Stiffness	90-150 cm^3/100
Grain direction	Long grain
Volume resistivity	10e^9-10e^{11} ohm
Surface resistivity	10e^9-10e^{12} ohm-cm
Filler	$CaCO_3$ (Neutral)
Ash content	Below 23 wt%
Brightness	Higher than 80 %
Opacity	Higher than 85 %

Handling and using special paper

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

Some important guidelines when selecting paper are:

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

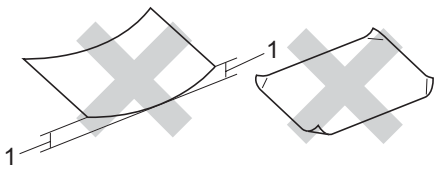
Types of paper to avoid

CAUTION

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

DO NOT use paper:

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



1 2 mm

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

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

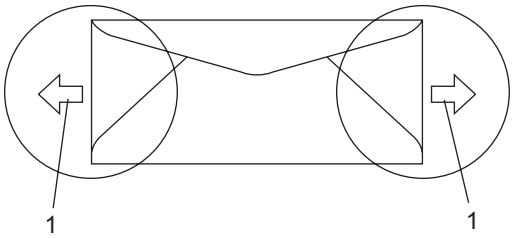
Envelopes

Most envelopes will be suitable for your machine. However, some envelopes may 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 sheets 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 machine.

Envelopes can be fed from manual feed slot one at a time. We recommend that you print a test envelope to make sure the print results are what you want before you print or purchase a large quantity of envelopes.

Check the following:

- Envelopes should have a lengthwise sealing flap.
- The sealing flaps should be folded crisply and correctly (irregularly cut or folded envelopes may cause paper jams).
- Envelopes should consist of two layers of paper in the area circled in figure below.



1 Feeding direction

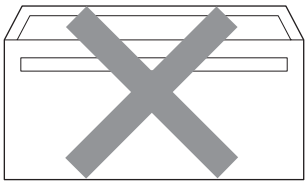
- We recommend that you do not print within 15 mm of the edges of envelopes.
- Envelope joints that are sealed by the manufacturer should be secure.

Types of envelopes to avoid

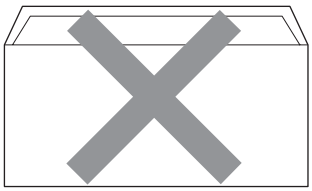
CAUTION

DO NOT use envelopes:

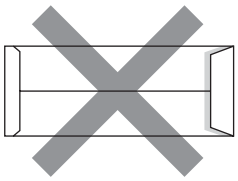
- that are damaged, curled, wrinkled or an unusual shape
- that are extremely shiny or textured
- with clasps, staples, snaps or tie strings
- with self-adhesive closures
- that are of a baggy construction
- that are not sharply creased
- that are embossed (have raised writing on them)
- that were previously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



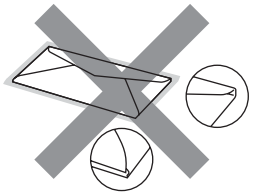
- with double flaps as shown in figure below



- with sealing flaps that have not been folded at purchase
- with sealing flaps as shown in figure below



- with each side folded as shown in figure below



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

Occasionally you may experience paper feed problems caused by the thickness, size and flap shape of the envelopes you are using.

Labels

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

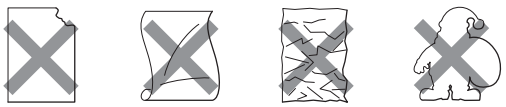
All labels used in this machine must be able to withstand a temperature of 392 degrees Fahrenheit (200 degrees centigrade) for a period of 0.1 seconds.

Label sheets should not exceed the paper weight specifications described in this User's Guide. Labels exceeding this specification may not feed or print correctly and may cause damage to your machine.

Labels can be fed from the manual feed slot only.

Types of labels to avoid

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



CAUTION

DO NOT feed part used label sheets. The exposed carrier sheet will damage your machine.

Loading documents

Using the automatic document feeder (ADF) (DCP-7040 and DCP-7045N)

The ADF can hold up to 35 pages and feeds each sheet individually. Use standard 80 g/m^2 paper and always fan the pages before putting them in the ADF.

Recommended environment

Temperature: 20 to 30° C Humidity: 50% - 70% Paper: Xerox Premier TCF 80 g/m^2 or Xerox Business 80 g/m^2

CAUTION

DO NOT leave thick documents on the scanner glass. If you do this, the ADF may jam.

DO NOT use paper that is curled, wrinkled, folded, ripped, stapled, paper-clipped, pasted or taped.

DO NOT use cardboard, newspaper or fabric.

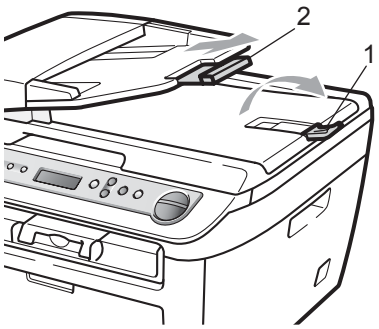
To avoid damaging your machine while using the ADF, DO NOT pull on the document while it is feeding.

To scan non-standard documents see *Using the scanner glass* on page 16.

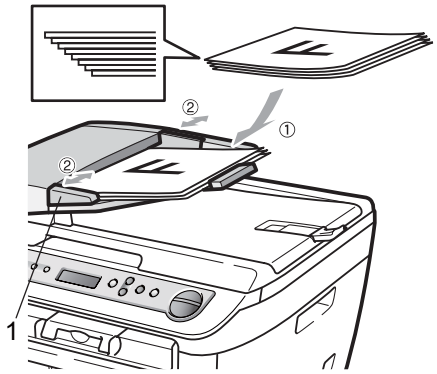
- Make sure documents written with ink are completely dry.

■ Documents must be from 148 to 215.9 mm wide and from 148 to 355.6 mm long, and of a standard weight 80 g/m^2.

1. Fold out the ADF document output support flap (1) and the ADF support flap (2).



2. Fan the pages well.
3. Place your document, face up top edge first, in the ADF until you feel it touch the feed roller.
4. Adjust the paper guides (1) to fit the width of your document.



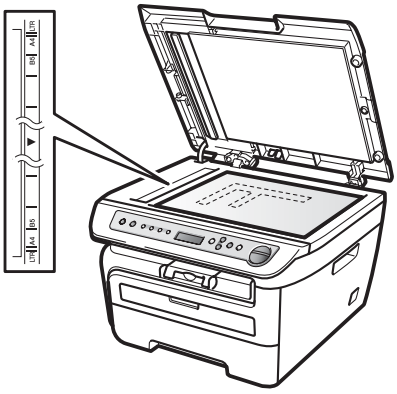
Using the scanner glass

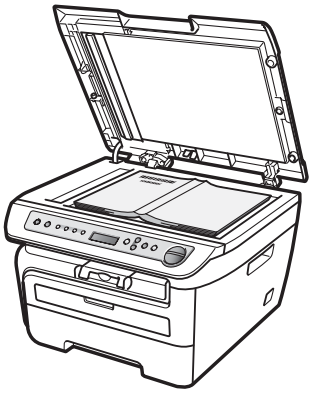
You can use the scanner glass to copy or scan pages of a book or one page at a time. Documents can be up to 215.9 mm wide and 297 mm long.

Note

(DCP-7040 and DCP-7045N) To use the scanner glass, the ADF must be empty.

1. Lift the document cover.
2. Using the document guidelines on the left, centre the document face down on the scanner glass.





3. Close the document cover.

CAUTION

If the document is a book or is thick do not slam the cover or press on it.

3 General setup

Paper settings

Paper type

Set up the machine for the type of paper you are using. This will give you the best print quality.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `1.General Setup`.
   Press **OK**.
3. Press ▲ or ▼ to choose `1.Paper Type`.
   Press **OK**.
4. Press ▲ or ▼ to choose `Thin`, `Plain`, `Thick`, `Thicker`, `Transparency` or `Recycled Paper`.
   Press **OK**.
5. Press **Stop/Exit**.

Paper size

You can use seven sizes of paper for printing copies: A4, Letter, Executive, A5, A6, B5 and B6.

When you change the size of paper in the tray, you will also need to change the setting for paper size at the same time so your machine can fit the document on the page.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `1.General Setup`.
   Press **OK**.
3. Press ▲ or ▼ to choose `2.Paper Size`.
   Press **OK**.
4. Press ▲ or ▼ to choose `A4`, `Letter`, `Executive`, `A5`, `A6`, `B5` or `B6`.
   Press **OK**.
5. Press **Stop/Exit**.

Note

If you chose `Transparency` as the paper type you will only be able to choose `Letter` or `A4` size paper in Step ❹.

Volume settings

Beeper volume

When the beeper is on, the machine will beep when you press a key or make a mistake. You can choose a range of volume levels, from `High` to `Off`.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `1.General Setup`.
   Press **OK**.
3. Press ▲ or ▼ to choose `3.Beeper`.
   Press **OK**.
4. Press ▲ or ▼ to choose `Off`, `Low`, `Med` or `High`.
   Press **OK**.
5. Press **Stop/Exit**.

Ecology features

Toner Save

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

1. Press **Menu**.
2. Press ▲ or ▼ to choose `1.General Setup`.
   Press **OK**.
3. Press ▲ or ▼ to choose `4.Ecology`.
   Press **OK**.
4. Press ▲ or ▼ to choose `1.Toner Save`.
   Press **OK**.
5. Press ▲ or ▼ to choose `On` or `Off`.
   Press **OK**.
6. Press **Stop/Exit**.

Note

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

Sleep time

Setting the sleep time reduces power consumption by turning off the fuser while the machine is idle.

You can choose how long the machine must be idle (from 00 to 99 minutes) before it goes into sleep mode. When the machine receives computer data, or makes a copy, the timer will be reset. The default setting is 05 minutes.

While the machine is in sleep mode the LCD will display `Sleep`. When printing or copying in sleep mode, there will be a short delay while the fuser warms up.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `1.General Setup`.
   Press **OK**.
3. Press ▲ or ▼ to choose `4.Ecology`.
   Press **OK**.
4. Press ▲ or ▼ to choose `2.Sleep Time`.
   Press **OK**.
5. Enter the length of time the machine is idle before entering sleep mode (00 to 99). Press **OK**.
6. Press **Stop/Exit**.

Note

To turn *off* sleep mode, press **Start** and **Options** at the same time in ❺. Press ▲ or ▼ to choose `Off`. Press **OK**.

LCD contrast

You can change the contrast to make the LCD look lighter or darker.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `1.General Setup`.
   Press **OK**.
3. Press ▲ or ▼ to choose `5.LCD Contrast`.
   Press **OK**.
4. Press ▲ to make the LCD darker. Or, press ▼ to make the LCD lighter.
   Press **OK**.
5. Press **Stop/Exit**.

User Settings List

You can print a list of the settings you programmed.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `1.General Setup`.
   Press **OK**.
3. Press ▲ or ▼ to choose `6.User Settings`.
   Press **OK**.
4. Press **Start**.
5. Press **Stop/Exit**.

Network Configuration List (DCP-7045N only)

The Network Configuration List prints a report listing all the current network configuration including the network print server settings.

Note

Node name: Node name appears in the Network Configuration List. The default node name is “BRNXXXXXXXXXXXX”.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `1.General Setup`.
   Press **OK**.
3. Press ▲ or ▼ to choose `7.Network Config`.
   Press **OK**.
4. Press **Start**.
5. Press **Stop/Exit**.

Section II

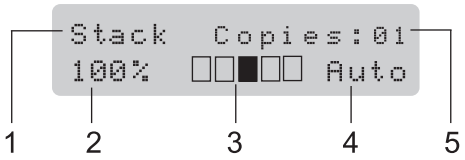
Copy

Making copies 22

4 Making copies

How to copy

Entering copy mode



1 **Stack/Sort** [1]

2 **Copy ratio and copy layout**

3 **Contrast**

4 **Quality**

5 **Number of copies**

[1] Sort is only available for the DCP-7040 and DCP-7045N.

Making a single copy

1. Load your document.
2. Press **Start**.

Making multiple copies

1. Load your document.
2. Do one of the following:
   - Press **Number of Copies** to enter the number of copies (up to 99).
   - Press or hold ▲ or ▼ to increase or decrease the number of copies.
3. Press **Start**.

Note

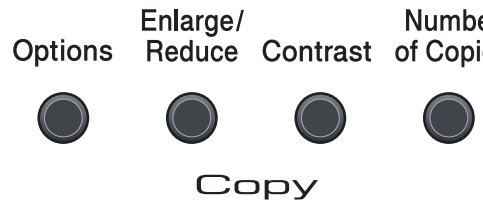
To sort your copies, see *Sorting copies using the ADF (DCP-7040 and DCP-7045N)* on page 26.

Stop copying

To stop copying, press **Stop/Exit**.

Copy options (temporary settings)

When you want to quickly change the copy settings temporarily for the next copy, use the temporary **Copy** keys. You can use different combinations.



The machine returns to its default settings one minute after copying.

Enlarging or reducing the image copied

You can choose the following enlargement or reduction ratios:

Press	
Enlarge/ Reduce	**100%***
	97% LTR→A4
	94% A4→LTR
	91% Full Page
	85% LTR→EXE
	83%
	78%
	70% A4→A5
	50%
	Custom(25-400%)
	Auto
	200%
	141% A5→A4
	104% EXE→LTR

* The factory setting is shown in Bold with an asterisk.

(DCP-7040 and DCP-7045N) When set to `Auto`, the machine calculates the reduction ratio that best fits the paper size the paper tray set to. (See *Paper size* on page 17.) `Auto` is only available when using the ADF.

`Custom(25-400%)` allows you to enter a ratio from `25%` to `400%`.

To enlarge or reduce the next copy follow the instructions below:

1. Load your document.
2. Enter the number of copies you want.
3. Press **Enlarge/Reduce**.
4. Do one of the following:
   - Press ▲ or ▼ to choose the enlargement or reduction ratio you want.

     Press **OK**.
   - Press ▲ or ▼ to choose `Custom(25-400%)`.

     Press **OK**.

     Press ▲ or ▼ to enter an enlargement or reduction ratio from `25%` to `400%`.

     Press **OK**.
5. Press **Start**.

Note

Page Layout Options 2 in 1(P), 2 in 1(L), 4 in 1(P) or 4 in 1(L) are *not* available with Enlarge/Reduce.

Adjusting contrast

Contrast

Adjust the contrast to help an image look sharper and more vivid.

To *temporarily* change the contrast setting, follow the steps below:

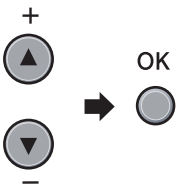
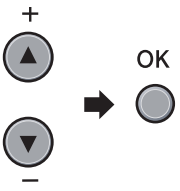
1. Load your document.
2. Enter the number of copies you want.
3. Press **Contrast**.
4. Press ▲ or ▼ to increase or decrease the contrast.
   Press **OK**.
5. Press **Start**.

To change the *default* setting follow the steps below:

1. Press **Menu**.
2. Press ▲ or ▼ to choose `2.Copy`.
   Press **OK**.
3. Press ▲ or ▼ to choose `2.Contrast`.
   Press **OK**.
4. Press ▲ or ▼ to increase or decrease the contrast.
   Press **OK**.
5. Press **Stop/Exit**.

Using the Options key

Use the **Options** key to quickly set the following copy settings temporarily for the next copy.

Press	Menu selections	Options	Page
Options	Press ▲ or ▼, then press **OK** 	Press ▲ or ▼, then press **OK** 	
	Quality	**Auto*** Photo Text	25
	(DCP-7040 and DCP-7045N) Stack/Sort (appears when the document is in the ADF)	**Stack*** Sort	26
	Page Layout	**Off(1 in 1)*** 2 in 1 (P) 2 in 1 (L) 4 in 1 (P) 4 in 1 (L)	26
The factory settings are shown in Bold with an asterisk.			

Improving copy quality

You can choose from a range of quality settings. The default setting is Auto.

- Auto

  Auto is the recommended mode for ordinary printouts. Suitable for documents that contain both text and photographs.

- Text

  Suitable for documents containing only text.

- Photo

  Suitable for copying photographs.

To *temporarily* change the quality setting, follow the steps below:

1. Load your document.
2. Enter the number of copies you want.
3. Press **Options**.
   Press ▲ or ▼ to choose Quality.
   Press **OK**.
4. Press ▲ or ▼ to choose Auto, Photo or Text.
   Press **OK**.
5. Press **Start**.

To change the *default* setting, follow the steps below:

1. Press **Menu**.
2. Press ▲ or ▼ to choose `2.Copy`.
   Press **OK**.
3. Press ▲ or ▼ to choose `1.Quality`.
   Press **OK**.
4. Press ▲ or ▼ to choose the copy quality.
   Press **OK**.
5. Press **Stop/Exit**.

Sorting copies using the ADF (DCP-7040 and DCP-7045N)

You can sort multiple copies. Pages will be stacked in the order 1 2 3, 1 2 3, 1 2 3, and so on.

1. Load your document in the ADF.
2. Enter the number of copies you want.
3. Press **Options** and ▲ or ▼ to choose `Stack/Sort`.
   Press **OK**.
4. Press ▲ or ▼ to choose `Sort`.
   Press **OK**.
5. Press **Start**.

Making N in 1 copies (page layout)

You can reduce the amount of paper used when copying by using the N in 1 copy feature. This allows you to copy two or four pages onto one page, which lets you save paper.

Important

- Please make sure the paper size is set to `Letter` or `A4`.
- (`P`) means Portrait and (`L`) means Landscape.
- You cannot use the Enlarge/Reduce setting with the N in 1 feature.

1. Load your document.
2. Enter the number of copies you want.
3. Press **Options**.
4. Press ▲ or ▼ to choose `Page Layout`.
   Press **OK**.
5. Press ▲ or ▼ to choose `2 in 1 (P)`, `2 in 1 (L)`, `4 in 1 (P)`, `4 in 1 (L)` or `Off(1 in 1)`.
   Press **OK**.
6. Press **Start** to scan the page. (DCP-7040 and DCP-7045N) If you placed the document in the ADF, the machine scans the pages and starts printing.
   If you are using the scanner glass, go to ❼.
7. After the machine scans the page, press ▲ to scan the next page.

   ```
   Next Page?
   ▲ Yes ▼ No
   ```

8. Put the next page on the scanner glass.
   Press **OK**.
   Repeat ❼ and ❽ for each page of the layout.

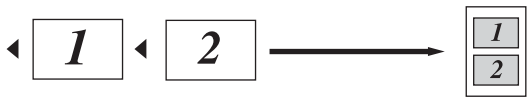
9 After all the pages have been scanned, press ▼ in ❽ to finish.

(DCP-7040 and DCP-7045N) If you are copying from the ADF:

Insert your document face up in the direction shown below:

■ **2 in 1 (P)**

■ **2 in 1 (L)**



■ **4 in 1 (P)**

■ **4 in 1 (L)**

If you are copying from the scanner glass:

Insert your document face down in the direction shown below:

■ **2 in 1 (P)**

■ **2 in 1 (L)**

■ **4 in 1 (P)**

■ **4 in 1 (L)**

4

Out of memory message

If the memory becomes full while you are making copies, the LCD message will guide you through the next step.

(DCP-7030) If you get an `Out of Memory` message, press **Stop/Exit** to cancel the operation.

(DCP-7040 and DCP-7045N) If you get an `Out of Memory` message while scanning a subsequent page, you will have the option to press **Start** to copy the pages scanned so far, or to press **Stop/Exit** to cancel the operation.

Section III

Software

Software and Network (DCP-7045N only) features 30

5 Software and Network (DCP-7045N only) features

The User's Guide on the CD-ROM includes **User's Guide**, **Software User's Guide** and **Network User's Guide** (DCP-7045N only) for features available when connected to a computer (for example, printing and scanning). These guides have easy to use links that, when clicked, will take you directly to a particular section.

You can find information on these features:

- Printing
- Scanning
- ControlCenter3 (for Windows®)
- ControlCenter2 (for Macintosh)
- Network Printing (DCP-7045N only)
- Network Scanning (DCP-7045N only)

Note

See *Accessing the Software User's Guide and Network User's Guide (DCP-7045N only)* on page 3.

How to read HTML User's Guide

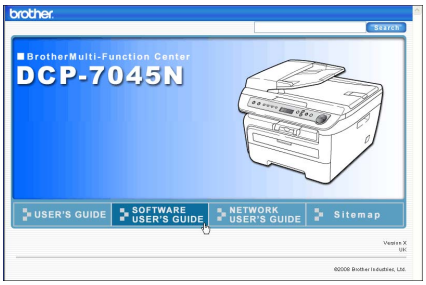
This is a quick reference for using the HTML User's Guide.

For Windows®

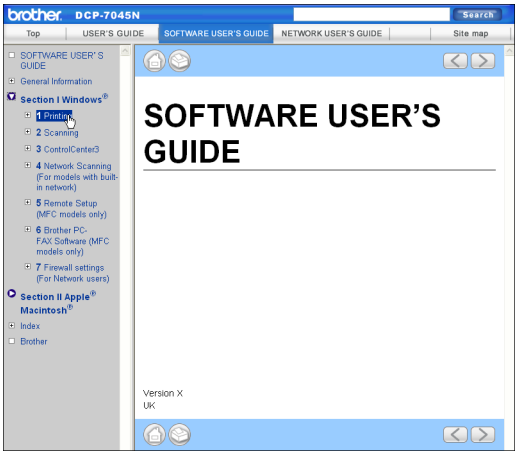
Note

If you have not installed the software, see *Chapter 1*.

1. From the **Start** menu, point to **Brother**, **DCP-XXXX** from the programs group, then click **User's Guides in HTML format**.
2. Click on the manual you want (**USER'S GUIDE**, **SOFTWARE USER'S GUIDE** or **NETWORK USER'S GUIDE** (DCP-7045N only)) from the top menu.



3 Click the heading you would like to view from the list at the left of the window.



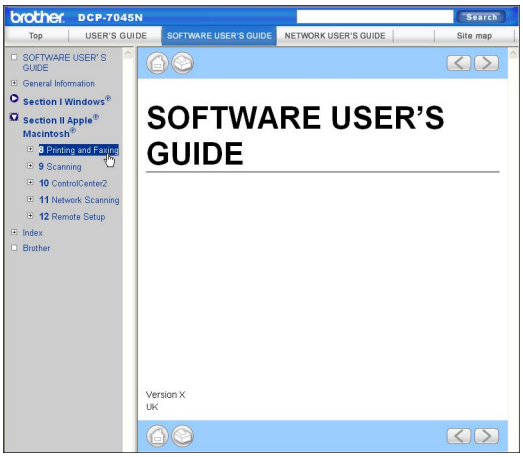
For Macintosh

1 Make sure your Macintosh is turned on. Insert the Brother CD-ROM into your CD-ROM drive.

2 Double-click the **Documentation** icon.

3 Double-click your language folder, and then double-click the top page file.

4 Click on the manual you want (**USER'S GUIDE**, **SOFTWARE USER'S GUIDE** or **NETWORK USER'S GUIDE** (DCP-7045N only)) in the top menu, and then click the heading you would like to read from the list at the left of the window.



Section IV

Appendixes

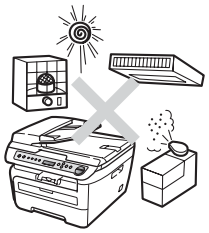
Safety and legal	34
Troubleshooting and routine maintenance	43
Menu and features	78
Specifications	85
Glossary	95

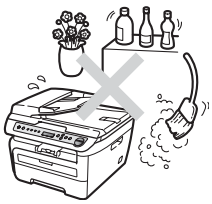
A Safety and legal

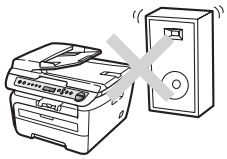
Choosing a location

Place your machine on a flat, stable surface that is free of vibration. Put the machine near a standard, grounded electrical socket. Choose a location where the temperature remains between 10° C and 32.5° C and the humidity is between 20% to 80% (without condensation).

- Make sure cables leading to the machine do not constitute a trip hazard.
- Avoid placing your machine on the carpet.
- Do not place near heaters, air conditioners, water, chemicals or refrigerators.
- Do not expose the machine to direct sunlight, excessive heat, moisture or dust.
- Do not connect your machine to electrical sockets controlled by wall switches or automatic timers, or to the same circuit as large appliances that might disrupt the power supply.







Important information

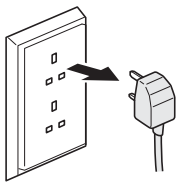
Safety precautions

Please read these instructions before attempting any maintenance, and keep them for later reference. When using your equipment, follow basic safety precautions to reduce the risk of fire, electric shock or personal injury.

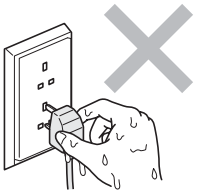
- DO NOT use this product near water, or in a damp environment.
- Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.
- We DO NOT advise using an extension lead.
- If any cables become damaged, disconnect your machine, and contact your Brother dealer.
- DO NOT place any objects on the machine, or obstruct the air vents.
- This product should be connected to an adjacent grounded AC power source within the range indicated on the rating label. DO NOT connect it to a DC power source or inverter. If you are not sure, contact a qualified electrician.

WARNING

Before cleaning the inside of the machine, unplug the power cord from the electrical socket.

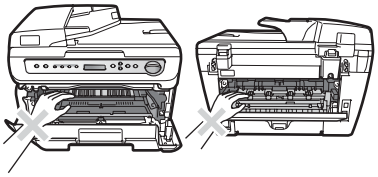


DO NOT handle the plug with wet hands. Doing this might cause an electrical shock.

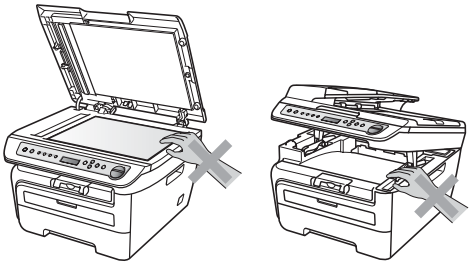


Always make sure the plug is fully inserted.

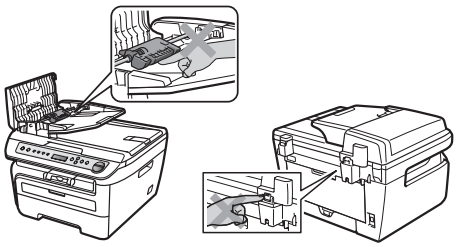
After you have just used the machine, some internal parts of the machine will be extremely hot. When you open the front or back cover of the machine, DO NOT touch the shaded parts shown in the illustrations.



To prevent injuries, be careful not to put your hands on the edge of the machine under the document cover or scanner cover as shown in the illustrations.



(DCP-7040 and DCP-7045N) To prevent injuries, DO NOT put your fingers in the areas shown in the illustrations.



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.

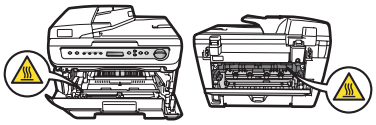
If moving your machine, use the handholds provided. First making sure to disconnect any cables.

DO NOT use any flammable substances, 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. Refer to *Routine maintenance* on page 62 for how to clean the machine.

Plastic bags are used in the packaging of your machine. To avoid the danger of suffocation, keep these bags away from babies and children.

Note

The fuser unit is marked with a Caution label. DO NOT remove or damage the label.



IEC60825-1+A2:2001 Specification

This machine is a Class 1 laser product as defined in IEC60825-1+A2:2001 specifications. The label shown below is attached in countries where required.

This machine has a Class 3B Laser Diode which emits invisible laser radiation in the Scanner Unit. The Scanner Unit should not be opened under any circumstances.

Laser Diode A

Wave length: 780 - 800 nm

Output: 10 mW max.

Laser Class: Class 3B

WARNING

Use of controls, adjustments or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

Disconnect device

This product must be installed near an electrical socket that is easily accessible. In case of emergencies, you must disconnect the power cord from the electrical socket to shut off power completely.

Wiring information (U.K. only)

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. If in any doubt, call a qualified electrician.

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

LAN connection (DCP-7045N only)

CAUTION

DO NOT connect this product to a LAN connection that is subject to over-voltages.

Radio interference

This product complies with EN55022 (CISPR Publication 22)/Class B. When connecting the machine to a computer, ensure that you use the following interface cables.

A USB cable which must not exceed 2.0 metres in length.

EU Directive 2002/96/EC and EN50419

European Union only

This equipment is marked with the above recycling symbol. It means that all 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)

International ENERGY STAR® Compliance Statement

The purpose of the International ENERGY STAR® Program is to promote the development and popularization of energy-efficient office equipment.

As an ENERGY STAR® Partner, Brother Industries, Ltd. has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Important safety instructions

1 Read all of these instructions.

2 Save them for later reference.

3 Follow all warnings and instructions marked on the product.

4 Unplug this product from the wall socket before cleaning inside of the machine. DO NOT use liquid or aerosol cleaners. Use a damp cloth for cleaning.

5 DO NOT place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.

6 Slots and openings in the casing at the back or bottom are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heater. This product should never be placed in a built-in installation unless adequate ventilation is provided.

7 This product should be connected to an AC power source within the range indicated on the rating label. DO NOT connect it to a DC power source or inverter. If you are not sure, contact a qualified electrician.

8 This product is equipped with a 3-wire grounded plug. This plug will only fit into a grounded power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, call your electrician to replace your obsolete outlet. DO NOT defeat the purpose of the grounded plug.

9 Use only the power cord supplied with this machine.

10 DO NOT allow anything to rest on the power cord. DO NOT place this product where people can walk on the cord.

11 Use the product in a well-ventilated area.

12 The power cord, including extensions should be no longer than 5 metres.

DO NOT share the same power circuit with other high powered appliances, such as an air conditioner, copier, shredder or similar devices. If you cannot avoid using the printer with these appliances, we recommend that you use a high-frequency noise filter.

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

13 DO NOT place anything in front of the machine that will block printed pages. DO NOT place anything in the path of printed pages.

14 Wait until pages have exited the machine before picking them up.

15 Unplug this product from the power socket and refer all servicing to Brother Authorized Service Personnel under the following conditions:

- When the power cord is damaged or frayed.
- If liquid has been spilled into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions. Incorrect adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- If the product has been dropped or the casing has been damaged.
- If the product exhibits a distinct change in performance, indicating a need for service.

16 To protect your product against power surges, we recommend the use of a power protection device (Surge Protector).

17 To reduce the risk of fire, electric shock and injury to people, note the following:

- DO NOT use this product near appliances that use water, a swimming pool or in a wet basement.
- DO NOT use the machine during an electrical storm (there is the remote possibility of an electrical shock).

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B Troubleshooting and routine maintenance

Troubleshooting

If you think there is a problem with your machine, check the chart below and follow the troubleshooting tips.

Most problems can be easily resolved by yourself. If you need additional help, the Brother Solutions Center offers the latest FAQs and troubleshooting tips. Visit us at http://solutions.brother.com/.

If you are having difficulty with your machine

Check the chart below and follow the troubleshooting tips.

Copy quality difficulties

Difficulties	Suggestions
Vertical black line appears in copies.	Black vertical lines on copies are typically caused by dirt or correction fluid on the glass strip (DCP-7040 and DCP-7045N only), or the corona wire for printing is dirty. (See *Cleaning the scanner glass* on page 63 and *Cleaning the corona wire* on page 65.)

Printing difficulties

Difficulties	Suggestions
No printout.	■ Check that the machine is plugged in and the power switch is turned on. ■ Check that the toner cartridge and drum unit are installed correctly. (See *Replacing the drum unit* on page 73.) ■ Check the interface cable connection on both the machine and your computer. (See *the Quick Setup Guide*.) ■ Check that the correct printer driver has been installed and chosen. ■ Check to see if the LCD is showing an error message. (See *Error and maintenance messages* on page 54.) ■ Check that machine is online: (For Windows Vista®) Click the **Start** button, **Control Panel**, **Hardware and Sound**, and then **Printers**. Right-click **Brother DCP-XXXX Printer**. Make sure that **Use Printer Offline** is unchecked. (For Windows Server® 2003 (DCP-7045N only) and Windows® XP) Click the **Start** button and choose **Printers**. Right-click **Brother DCP-XXXX Printer**. Make sure that **Use Printer Offline** is unchecked. (For Windows® 2000) Click the **Start** button and choose **Settings** and then **Printers**. Right-click **Brother DCP-XXXX Printer**. Make sure that **Use Printer Offline** is unchecked.

Printing difficulties (continued)

Difficulties	Suggestions
The machine prints unexpectedly or it prints garbage.	■ Pull out the paper tray and wait until the machine stops printing. Then turn off the machine's power switch and disconnect from the power for several minutes. ■ Check the settings in your application to make sure it is set up to work with your machine.
The machine prints the first couple of pages correctly, then some pages have text missing.	■ Check the settings in your application to make sure that it is set up to work with your machine. ■ Your computer is not recognising the machine's input buffer's full signal. Make sure that you connected the interface cable correctly. (See *the Quick Setup Guide*.)
The headers or footers appear when the document displays on the screen but they do not show up when it is printed.	There is an unprintable area on the top and bottom of the page. Adjust the top and bottom margins in your document to allow for this.

Scanning difficulties

Difficulties	Suggestions
TWAIN errors appear while scanning.	Make sure that the Brother TWAIN driver is chosen as the primary source. In PaperPort™ 11SE, click **File**, **Scan or Get Photo** and choose the **Brother TWAIN driver**.
OCR does not work	Try increasing the scanning resolution.
Network scanning does not work. (DCP-7045N only)	See *Network difficulties (DCP-7045N only)* on page 45.

Software difficulties

Difficulties	Suggestions
Cannot install software or print.	Run the **Repair MFL-Pro Suite** program on the CD-ROM. This program will repair and reinstall the software.
Cannot perform '2 in 1' or '4 in 1' printing.	Check that the paper size setting in the application and in the printer driver are the same.
The machine does not print from Adobe® Illustrator®.	Try to reduce the print resolution. (See *Advanced tab in the Software User's Guide on the CD-ROM.*)

Paper handling difficulties

Difficulties	Suggestions
The machine does not load paper. The LCD shows `No Paper` or a Paper Jam message.	■ If there is no paper, load a new stack of paper into the paper tray. ■ If there is paper in the paper tray, make sure it is straight. If the paper is curled, you should straighten it. Sometimes it is helpful to remove the paper, turn the stack over and put it back into the paper tray. ■ Reduce the amount of paper in the paper tray, and then try again. ■ If the LCD shows Paper Jam message and you still have a problem, see *Paper jams* on page 57.

Paper handling difficulties (continued)

Difficulties	Suggestions
How do I print on envelopes?	You can load envelopes from the manual feed slot. Your application must be set up to print the envelope size you are using. This is usually done in the Page Setup or Document Setup menu of your application. (See your application's manual for more information.)
Which paper can I use?	You can use plain paper, recycled paper, transparency and labels that are made for laser machines. (For details, see *Acceptable paper and other print media* on page 11.)
There is a paper jam.	(See *Paper jams* on page 57.)

Print quality difficulties

Difficulties	Suggestions
Printed pages are curled.	■ Low quality thin or thick paper or not printing on the recommended side of the paper could cause this problem. Try turning over the stack of paper in the paper tray. ■ Make sure that you choose the Paper Type that suits the print media type you are using. (See *Acceptable paper and other print media* on page 11.)
Printed pages are smeared.	The Paper Type setting may be incorrect for the type of print media you are using, or the print media may be too thick or have a rough surface. (See *Acceptable paper and other print media* on page 11 and *Basic tab in the Software User's Guide on the CD-ROM*.)
Printouts are too light.	■ If this problem occurs when making copies or printing, set Toner Save mode to off in the machine menu settings. (See *Toner Save* on page 18.) ■ Set Toner Save mode to off in the Advanced tab in the printer driver. (See *Advanced tab in the Software User's Guide on the CD-ROM*.)

Network difficulties (DCP-7045N only)

Difficulties	Suggestions
Cannot print over a wired Network.	If you are having Network problems see *the Network User's Guide on the CD-ROM* for more information. Make sure your machine is powered on and is on-line and in Ready mode. Print the Network Configuration list to see your current Network settings. (See *Network Configuration List (DCP-7045N only)* on page 19.) Reconnect the LAN cable to the hub to verify that the cable and network connections are good. If possible, try connecting the machine to a different port on your hub using a different cable. If the connections are good, the lower LED of the back panel of the machine will be green.

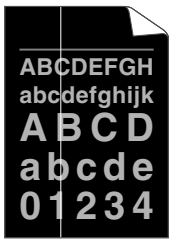
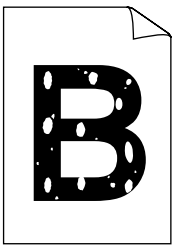
Network difficulties (DCP-7045N only) (continued)

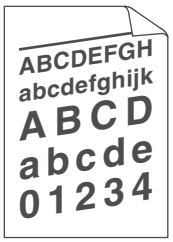
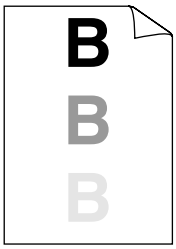
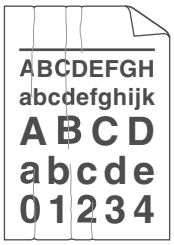
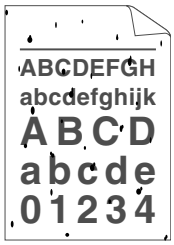
Difficulties	Suggestions
The network scanning feature does not work. The network printing feature does not work.	(For Windows® only) The firewall setting on your PC may be rejecting the necessary network connection. Follow the instructions below to configure Windows® Firewall. If you are using other personal firewall software, see the User's Guide for your software or contact the software manufacturer. **For Windows® XP SP2 users:** 1 Click the **Start** button, **Control Panel**, **Network and Internet Connections** and then **Windows Firewall**. Make sure that **Windows Firewall** on the **General** tab is set to On. 2 Click the **Advanced** tab and **Settings...** button of the **Network Connection Settings**. 3 Click the **Add** button. 4 To add port 54925 for network scanning, enter the information below: 1. In **Description of service**: Enter any description, for example "Brother Scanner". 2. In **Name or IP address (for example 192.168.0.12) of the computer hosting this service on your network**: Enter "Localhost". 3. In **External Port number for this service**: Enter "54925" 4. In **Internal Port number for this service**: Enter "54925". 5. Make sure **UDP** is chosen. 6. Click **OK**. 5 If you still have trouble with your network connection, click the **Add** button. 6 To add port 137 for network scanning and network printing, enter the information below: 1. In **Description of service**: - Enter any description, for example "Brother network scanning" 2. In **Name or IP address (for example 192.168.0.12) of the computer hosting this service on your network**: Enter "Localhost". 3. In **External Port number for this service**: Enter "137". 4. In **Internal Port number for this service**: Enter "137". 5. Make sure **UDP** is chosen. 6. Click **OK**. 7 Make sure if the new setting is added and is checked, and then click **OK**.

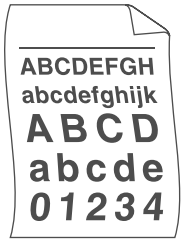
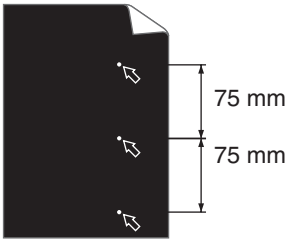
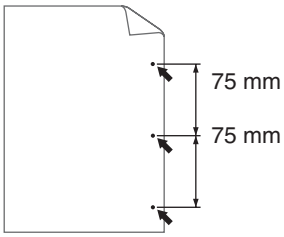
Network difficulties (DCP-7045N only) (continued)

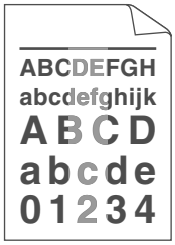
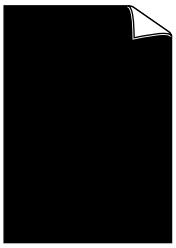
Difficulties	Suggestions
The network scanning feature does not work. The network printing feature does not work. (continued)	**For Windows Vista® users:** 1 Click the **Start** button, **Control Panel**, **Network and Internet**, **Windows Firewall** and click **Change settings**. 2 When the **User Account Control** screen appears, do the following. ■ Users who have administrator rights: Click **Continue**. ■ For users who do not have administrator rights: Enter the administrator password and click **OK**. 3 Make sure that **Windows Firewall** on the **General** tab is set to On. 4 Click the **Exceptions** tab. 5 Click the **Add port...** button. 6 To add port 54925 for network scanning, enter the information below: 1. In **Name**: Enter any description. (for example “Brother Scanner”) 2. In **Port number**: Enter “54925”. 3. Make sure **UDP** is chosen. Then click **OK**. 7 Make sure that the new setting is added and is checked, and then click **Apply**. 8 If you still have trouble with your network connection such as network scanning or printing, check **File and Printer Sharing** box in the **Exceptions** tab and then click **Apply**.
Your computer cannot find your machine.	**For Windows® users:** The firewall setting on your PC may be rejecting the necessary network connection. For details, see the instruction above. **For Macintosh users:** Re-select your machine in the Device Selector application located in **Macintosh HD/Library/Printers/Brother/Utilities/DeviceSelector** or from the Model pop-up menu of ControlCenter2.

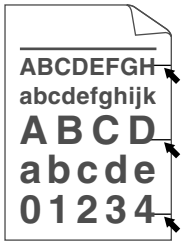
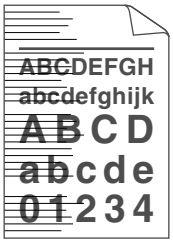
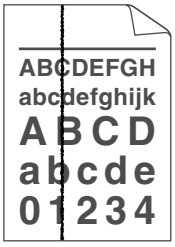
Improving the print quality

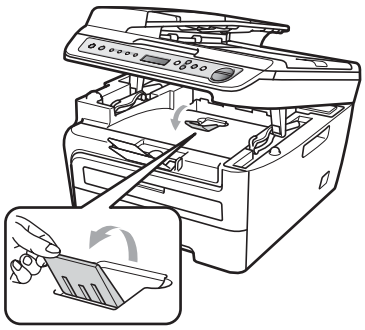
Examples of poor print quality	Recommendation
  White lines across the page	■ Make sure that you use paper that meets our specifications. A rough surfaced paper or thick print media can cause the problem. (See *Acceptable paper and other print media* on page 11.) ■ Make sure that you choose the appropriate media type in the printer driver or in the machine's Paper Type menu setting. (See *Acceptable paper and other print media* on page 11 and *Basic tab in the Software User's Guide on the CD-ROM*.) ■ The problem may disappear by itself. Print multiple pages to clear this problem, especially if the machine has not been used for a long time. ■ The drum unit may be damaged. Put in a new drum unit. (See *Replacing the drum unit* on page 73.)
 **White lines down the page**	■ Wipe the laser scanner windows with a soft cloth. (See *Cleaning the laser scanner window* on page 63.) ■ Make sure that a torn sheet of paper is not inside the machine covering the scanner window. ■ The toner cartridge may be damaged. Put in a new toner cartridge. (See *Replacing a toner cartridge* on page 69.) ■ The drum unit may be damaged. Put in a new drum unit. (See *Replacing the drum unit* on page 73.)
 **Hollow print**	■ Make sure that you use paper that meets our specifications. (See *Acceptable paper and other print media* on page 11.) ■ Choose **Thick paper** mode in the printer driver, choose `Thick` in the machine's Paper Type menu setting or use thinner paper than you are currently using. (See *Paper type* on page 17 and *Basic tab in the Software User's Guide on the CD-ROM*.) ■ Check the machine's environment. Conditions such as high humidity can cause hollow print. (See *Choosing a location* on page 34.) ■ The drum unit may be damaged. Put in a new drum unit. (See *Replacing the drum unit* on page 73.)
  Grey background	■ Make sure that you use paper that meets our specifications. (See *Acceptable paper and other print media* on page 11.) ■ Check the machine's environment. Conditions such as high temperatures and high humidity can increase the amount of background shading. (See *Choosing a location* on page 34.) ■ The toner cartridge may be damaged. Put in a new toner cartridge. (See *Replacing a toner cartridge* on page 69.) ■ The drum unit may be damaged. Put in a new drum unit. (See *Replacing the drum unit* on page 73.)

Examples of poor print quality	Recommendation
 **Page skewed**	■ Make sure that the paper or other print media is loaded correctly 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 *Loading paper in the paper tray* on page 6.) ■ The paper tray may be too full. ■ If you are using the manual feed slot, see *Loading paper in the manual feed slot* on page 7. ■ Check the paper type and quality. (See *Acceptable paper and other print media* on page 11.)
 **Ghost**	■ Make sure that you use paper that meets our specifications. Rough-surfaced paper or thick paper may cause the problem. (See *Acceptable paper and other print media* on page 11.) ■ Make sure that you choose the correct media type in the printer driver or in the machine's Paper Type menu setting. (See *Acceptable paper and other print media* on page 11 and *Basic tab in the Software User's Guide on the CD-ROM*.) ■ The drum unit may be damaged. Put in a new drum unit. (See *Replacing the drum unit* on page 73.) ■ The fuser unit may be contaminated. Call your Brother dealer for service.
 **Wrinkles or creases**	■ Check the paper type and quality. (See *Acceptable paper and other print media* on page 11.) ■ Make sure that paper is loaded correctly. (See *Loading paper in the paper tray* on page 6.) ■ Turn over the stack of paper in the tray or rotate the paper 180° in the input tray.
 **Poor fixing**	■ Choose **Improve Toner Fixing** mode in the printer driver. (See *Device Options (For Windows®) or Print Settings (For Macintosh) in the Software User's Guide on the CD-ROM*.) If this selection does not provide enough improvement, choose **Thicker Paper** in **Media Type** settings.

Examples of poor print quality	Recommendation
 **Curled or wavy**	■ Check the paper type and quality. High temperatures and high humidity will cause paper to curl. ■ If you do not use the machine often, the paper may have been in the paper tray too long. Turn over the stack of paper in the paper tray. Also, fan the paper stack and then rotate the paper 180° in the paper tray.
 **White Spots on black text and graphics at 75 mm intervals**  **Black Spots at 75 mm intervals**	■ Make ten copies of a blank, white sheet of paper. (See *Making multiple copies* on page 22.) If the problem is not solved, the drum unit may have glue from a label stuck on the OPC drum surface. Clean the drum unit. (See *Cleaning the drum unit* on page 67.) ■ The drum unit may be damaged. Put in a new drum. (See *Replacing the drum unit* on page 73.)

Examples of poor print quality	Recommendation
 **Faint**	■ Check the machine's environment. Conditions such as humidity, high temperatures, and so on, may cause this print fault. (See *Choosing a location* on page 34.) ■ If the whole page is too light, Toner Save mode may be on. Turn off `Toner Save` mode in the machine menu settings or **Toner Save** mode in the printer **Properties** of the driver. (See *Toner Save* on page 18 or *Advanced tab in the Software User's Guide on the CD-ROM*.) ■ Clean the scanner window and the corona wire of the drum unit. (See *Cleaning the laser scanner window* on page 63 and *Cleaning the corona wire* on page 65.) ■ The toner cartridge may be damaged. Put in a new toner cartridge. (See *Replacing a toner cartridge* on page 69.) ■ The drum unit may be damaged. Put in a new drum unit. (See *Replacing the drum unit* on page 73.)
 Toner specks	■ Make sure that you use paper that meets our specifications. Rough-surfaced paper may cause the problem. (See *Acceptable paper and other print media* on page 11.) ■ Clean the corona wire and the drum unit. (See *Cleaning the corona wire* on page 65 and *Cleaning the drum unit* on page 67.) ■ The drum unit may be damaged. Put in a new drum unit. (See *Replacing the drum unit* on page 73.) ■ The fuser unit may be contaminated. Call your Brother dealer for service.
 **All black**	■ Clean the corona wire inside the drum unit by sliding the green tab. Be sure to return the green tab to the home position (▲). (See *Cleaning the corona wire* on page 65.) ■ The drum unit may be damaged. Put in a new drum unit. (See *Replacing the drum unit* on page 73.) ■ The fuser unit may be contaminated. Call your Brother dealer for service.

Examples of poor print quality	Recommendation
 **Black toner marks across the page**	■ Make sure that you use paper that meets our specifications. (See *Acceptable paper and other print media* on page 11.) ■ If you use label sheets for laser machines, the glue from the sheets may sometimes stick to the OPC drum surface. Clean the drum unit. (See *Cleaning the drum unit* on page 67.) ■ 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. ■ The toner cartridge may be damaged. Put in a new toner cartridge. (See *Replacing a toner cartridge* on page 69.) ■ The drum unit may be damaged. Put in a new drum unit. (See *Replacing the drum unit* on page 73.)
 **Line across the page**	■ Clean the laser scanner window and the corona wire inside the drum unit. (See *Cleaning the laser scanner window* on page 63 and *Cleaning the corona wire* on page 65.) ■ The drum unit may be damaged. Put in a new drum unit. (See *Replacing the drum unit* on page 73.)
 **Black lines down the page** **Printed pages have toner stains down the page**	■ Clean the corona wire inside the drum unit by sliding the green tab. Be sure to return the green tab to the home position (▲). (See *Cleaning the corona wire* on page 65.) ■ The toner cartridge may be damaged. Put in a new toner cartridge. (See *Replacing a toner cartridge* on page 69.) ■ The drum unit may be damaged. Put in a new drum unit. (See *Replacing the drum unit* on page 73.) ■ The fuser unit may be smudged. Call your Brother dealer for service.

Examples of poor print quality	Recommendation
 Curled	■ Choose **Reduce Paper Curl** mode in the printer driver when you do not use our recommended paper. (See *Device Options (For Windows®) or Print Settings (For Macintosh) in the Software User's Guide on the CD-ROM*.) ■ Turn the paper over in the paper tray, and print again. (Excluding Letterhead paper) ■ Lift up the output tray support flap.  ■ Replace the paper in the paper tray with paper from a freshly opened ream. ■ Make sure you are using paper that is recommended for your machine. (See *Acceptable paper and other print media* on page 11.)

Error and maintenance messages

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

You can correct most errors and routine maintenance by yourself. If you need more help, the Brother Solutions Center offers the latest FAQs and troubleshooting tips.

Visit us at http://solutions.brother.com/

Error Message	Cause	Action
Cartridge Error	The toner cartridge is not installed correctly.	Pull out the drum unit, take out the toner cartridge that is indicated on the LCD, and put it back into the drum unit again.
Drum End Soon	The drum unit is near the end of its life.	Use the drum unit until you have a print quality problem; then replace the drum unit with a new one. (See *Replacing the drum unit* on page 73.)
Cooling Down Wait for a while	The temperature of the drum unit or toner cartridge is too hot. The machine will pause its current print job and go into cooling down mode. During the cooling down mode, you will hear the cooling fan running while the LCD shows Cooling Down, and Wait for a while.	Make sure that you can hear the fan in the machine spinning and that the exhaust outlet is not blocked by something. If the fan is spinning, remove any obstacles that surround the exhaust outlet, and then leave the machine turned on but do not use it for several minutes. If the fan is not spinning do the following: Disconnect the machine from the power for several minutes and then reconnect it.
Cover is Open	The front cover is not closed completely.	Close the front cover of the machine.
Cover is Open	The fuser cover is not closed completely.	Close the fuser cover of the machine.
Cover is Open	The fuser cover is not closed completely or paper was jammed in the back of the machine when you turned on the power.	Make sure paper is not jammed inside the back of the machine, and then close the fuser cover and press **Start**.
Document Jam (DCP-7040 and DCP-7045N only)	The document was not inserted or fed correctly, or the document scanned from the ADF was too long.	See *Document jams (DCP-7040 and DCP-7045N only)* on page 56 or *Using the automatic document feeder (ADF) (DCP-7040 and DCP-7045N)* on page 15.
Drum Error	The corona wire on the drum unit needs to be cleaned.	Clean the corona wire on the drum unit. (See *Cleaning the corona wire* on page 65.)
	The drum unit has reached the end of its life.	Replace the drum unit. (See *Replacing the drum unit* on page 73.)

Error Message	Cause	Action
Fuser Error	The temperature of fuser unit does not rise at a specified temperature within specified time.	Turn the power switch off, wait a few seconds, and then turn it on again. Leave the machine for 15 minutes with the power on.
	The fuser unit is too hot.	
Init Unable XX	The machine has a mechanical problem.	Disconnect the machine from the power for several minutes and then reconnect it.
Jam Rear	The paper is jammed in the back of the machine.	(See *Paper jams* on page 57.)
Jam Inside	The paper is jammed inside the machine.	(See *Paper jams* on page 57.)
Jam Tray	The paper is jammed in the paper tray of the machine.	(See *Paper jams* on page 57.)
No Paper	The machine is out of paper or paper is not correctly loaded in the paper tray.	Do one of the following: ■ Refill the paper in the paper tray, and then press **Start**. ■ Remove the paper and load it again, and then press **Start**.
Out of Memory	The machine's memory is full.	**Copy operation in progress** Do one of the following: ■ (DCP-7040 and DCP-7045N only) Press **Start** to copy the scanned pages. ■ Press **Stop/Exit** and wait until the other operations in progress finish, and then try again. ■ Clear the data from the memory. (See *Out of memory message* on page 27.) **Print operation in process** Reduce print resolution. (See *Advanced tab in the Software User's Guide on the CD-ROM*.)
Print Unable XX	The machine has a mechanical problem.	Disconnect the machine from the power for several minutes and then reconnect it.
Scan Unable XX	The machine has a mechanical problem.	Disconnect the machine from the power for several minutes and then reconnect it.
Toner Life End	The drum unit and toner cartridge assembly is not installed correctly, or the toner cartridge is used up and printing is not possible.	Do one of the following: ■ Re-install the toner cartridge and drum unit assembly. ■ Replace the empty toner cartridge with a new one. (See *Replacing a toner cartridge* on page 69.)

Error Message	Cause	Action
Toner Low	If the LCD shows Toner Low, you can still print; however, the machine is telling you that the toner cartridge is near the end of its life and the toner will soon need replacing.	Order a new toner cartridge now.

Document jams (DCP-7040 and DCP-7045N only)

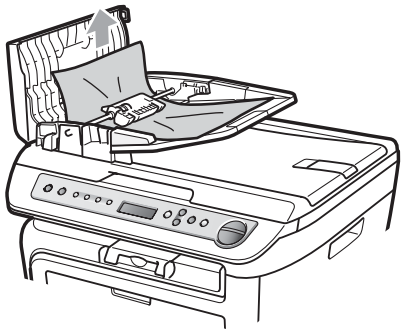
If the document is jammed, follow the steps below.

Note

After removing a jammed document, check that no paper scraps are left in the machine that could cause another jam.

Document is jammed in the top of the ADF unit

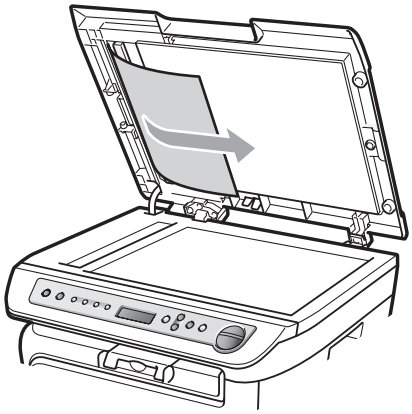
1. Take out any paper from the ADF that is not jammed.
2. Open the ADF cover.
3. Pull the jammed document out to the left.



4. Close the ADF cover.
5. Press **Stop/Exit**.

Document is jammed under the document cover

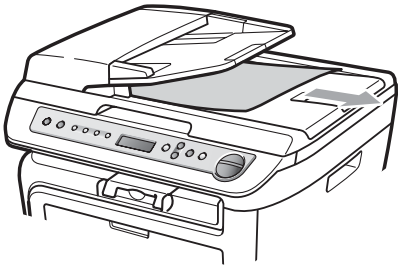
1. Take out any paper from the ADF that is not jammed.
2. Lift the document cover.
3. Pull the jammed document out to the right.



4. Close the document cover.
5. Press **Stop/Exit**.

Document is jammed at the output tray

1. Pull the jammed document out to the right.



2. Press **Stop/Exit**.

Paper jams

To clear paper jams, please follow the steps in this section.

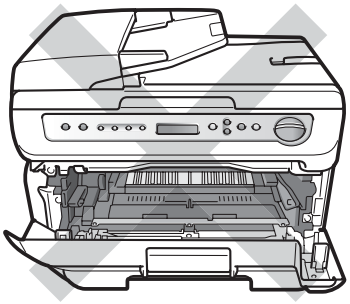
Note

- Please confirm that you have installed both a toner cartridge and a drum unit in the machine. If you have not installed a drum unit or have installed the drum unit incorrectly, then this may cause a paper jam in your Brother machine.
- If the error message remains, open and close the front cover and fuser cover firmly to reset the machine.

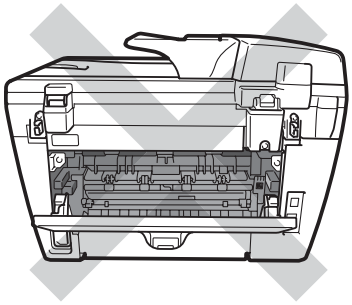
WARNING

HOT SURFACE

After you have just used the machine, some internal parts of the machine will be extremely hot. To prevent injury, when you open the front or back cover (back output tray) of the machine, DO NOT touch the shaded parts shown in the illustration.

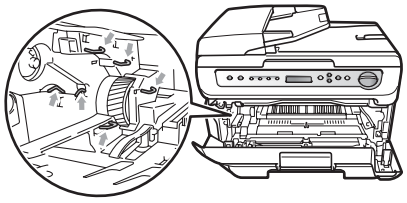


B



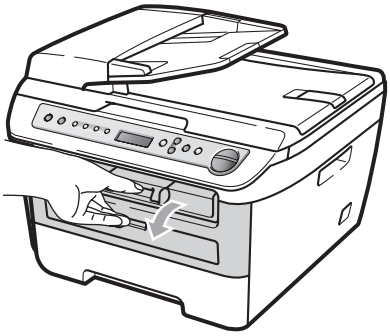
CAUTION

To prevent damage to the machine caused by static electricity, DO NOT touch the electrodes shown in the illustration.

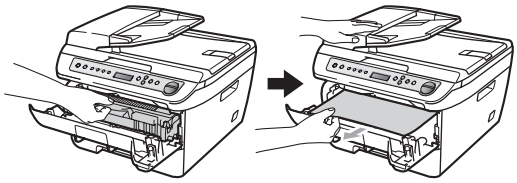


Paper is jammed inside the machine

1. Open the front cover.



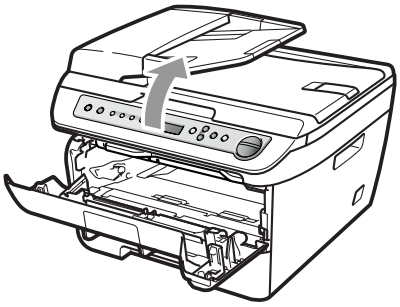
2. Slowly take out the drum unit and toner cartridge assembly. The jammed paper will be pulled out with the toner cartridge and drum unit assembly.



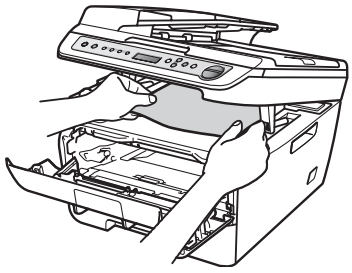
CAUTION

We recommend that you place the drum unit and toner cartridge assembly on a clean, flat surface with a piece of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.

3. If you cannot remove the drum unit and toner cartridge assembly easily, do not use extra force. Instead, lift the scanner cover.

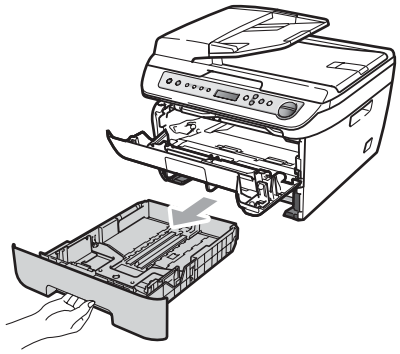


Use both hands to carefully pull the jammed paper up and out of the output tray opening.

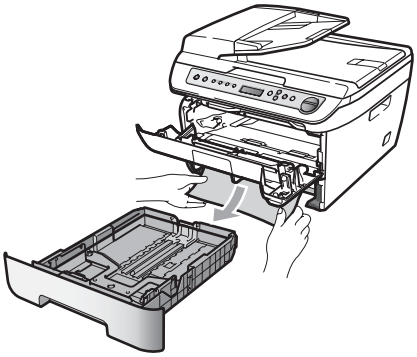


4. Close the scanner cover.

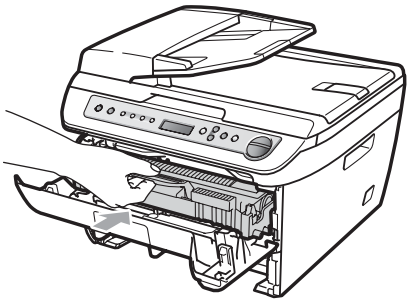
5 If you cannot pull the jammed paper out of the output tray opening, take the paper tray completely out of the machine.



6 Pull the jammed paper out of the paper tray opening.



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

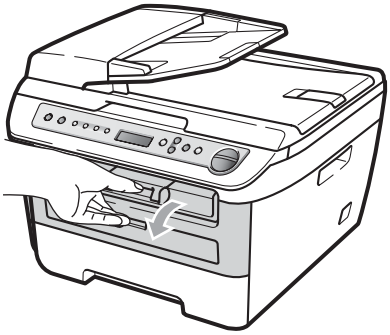


8 Put the paper tray back in the machine.

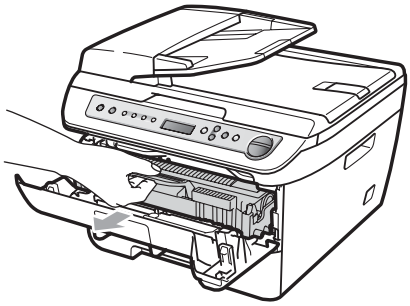
9 Close the front cover.

Paper is jammed at the back of the machine

1 Open the front cover.



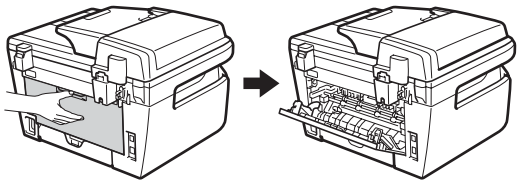
2 Slowly take out the drum unit and toner cartridge assembly.



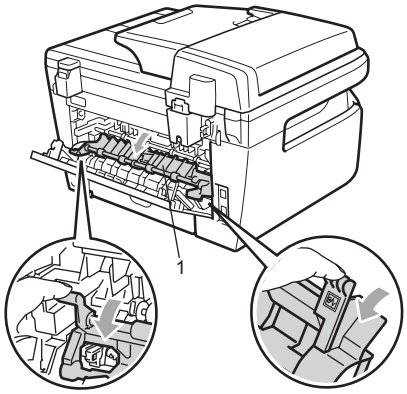
CAUTION

We recommend that you place the drum unit and toner cartridge assembly on a clean, flat surface with a piece of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.

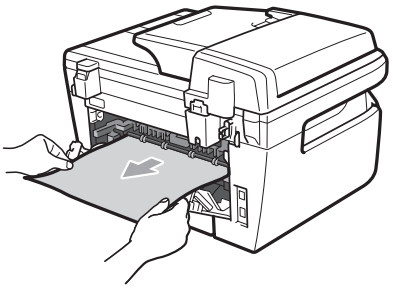
3 Open the back cover (back output tray).



4 Pull the tabs toward you to open the fuser cover (1).

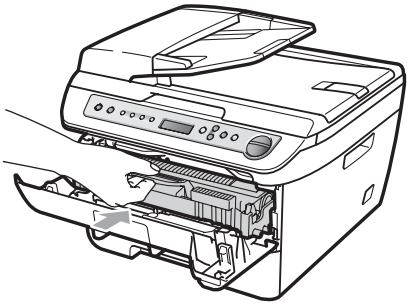


5 Pull the jammed paper out of the fuser unit.



6 Close the back cover (back output tray).

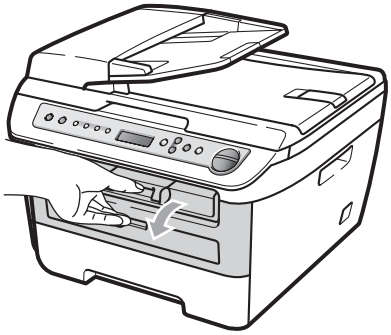
7 Put the drum unit and toner cartridge assembly back in the machine.



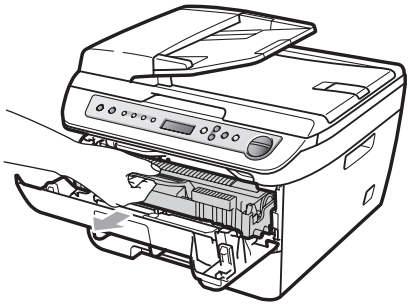
8 Close the front cover.

Paper is jammed inside the drum unit and toner cartridge assembly

1 Open the front cover.



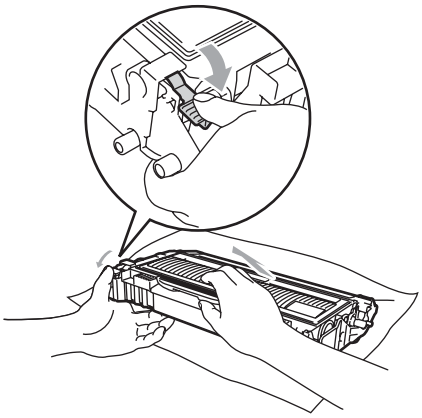
2 Slowly take out the drum unit and toner cartridge assembly.



CAUTION

We recommend that you place the drum unit and toner cartridge assembly on a clean, flat surface with a piece of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.

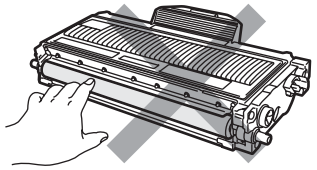
3 Push down the green lock lever and take the toner cartridge out of the drum unit.

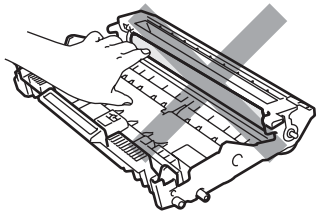


CAUTION

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

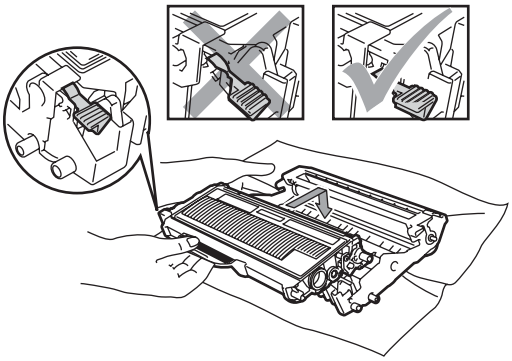
To avoid print quality problems, DO NOT touch the shaded parts shown in the illustrations below.



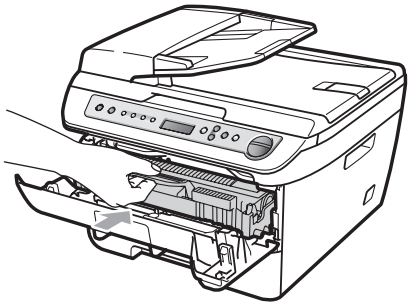


4 Clear the jammed paper if there is any inside the drum unit.

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



6 Put the drum unit and toner cartridge assembly back in the machine.



7 Close the front cover.

B

Routine maintenance

WARNING

Use neutral detergents.

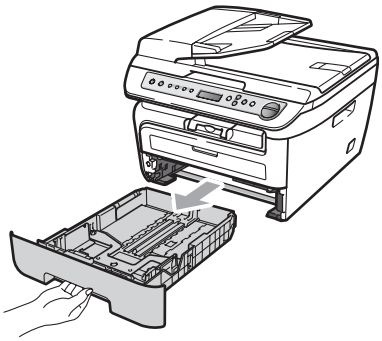
DO NOT use any flammable substances, spray or organic solvent/liquids containing alcohol/ammonia to clean the inside or outside of the machine. Doing this may cause a fire or electrical shock. For more information see *Important safety instructions* on page 40.

CAUTION

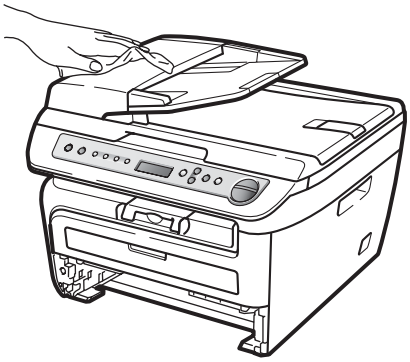
The drum unit contains toner, so handle it carefully. If toner scatters on your hands or clothes, wipe or wash it off with cold water at once.

Cleaning the outside of the machine

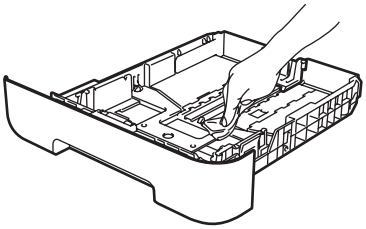
1. Turn off the machine's power switch. Disconnect all cables, and then unplug the power cord from the electrical socket.
2. Pull the paper tray completely out of the machine.



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



4. Remove any paper that is in the paper tray.
5. Wipe the inside and the outside of the paper tray with a soft cloth to remove dust.

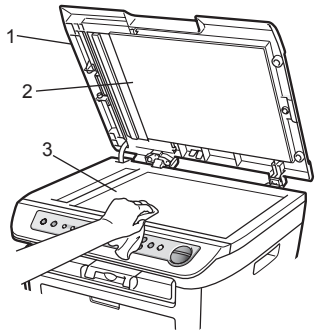


6. Re-load the paper and put the paper tray firmly back in the machine.
7. Plug the machine's power cord back into the electrical socket first, and then reconnect all cables. Turn on the machine's power switch.

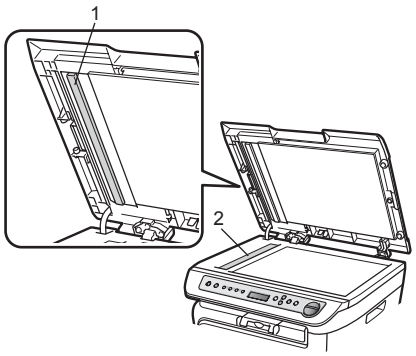
Cleaning the scanner glass

1. Turn off the machine's power switch. Disconnect all cables and then unplug the power cord from the electrical socket.

2. Lift the document cover (1).
Clean the white plastic surface (2) and scanner glass (3) underneath it with a soft lint-free cloth moistened with water.



3. (DCP-7040 and DCP-7045N) In the ADF unit, clean the white bar (1) and the scanner glass strip (2) underneath it with a soft lint-free cloth moistened with water.



4. Plug the machine's power cord back into the electrical socket first, and then reconnect all cables. Turn on the machine's power switch.

Note

In addition to cleaning the scanner glass and glass strip with a soft lint-free cloth moistened with water, run your finger tip over the glass to see if you can feel anything on it. If you feel dirt or debris, clean the glass again concentrating on that area. You may need to repeat the cleaning process three or four times. To test, make a copy after each cleaning.

Cleaning the laser scanner window

WARNING

Use neutral detergents.

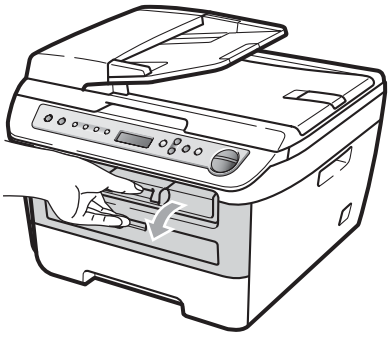
DO NOT use any flammable substances, spray or organic solvent/liquids containing alcohol/ammonia to clean the inside or outside of the machine. Doing this may cause a fire or electrical shock. For more information see *Important safety instructions* on page 40.

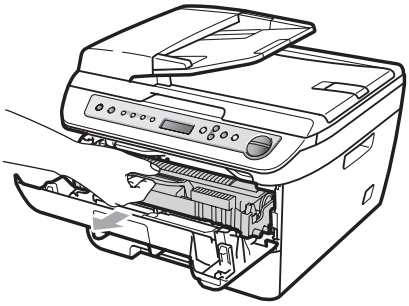
CAUTION

DO NOT touch the laser scanner window with your fingers.

1. Before you clean the inside of the machine, turn off the machine's power switch.
Unplug the power cord from the electrical socket.

2 Open the front cover and slowly take out the drum unit and toner cartridge assembly.

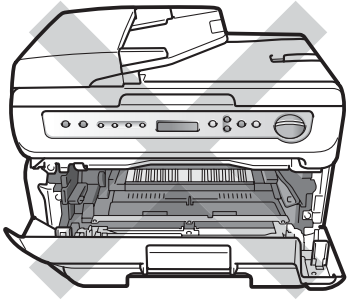


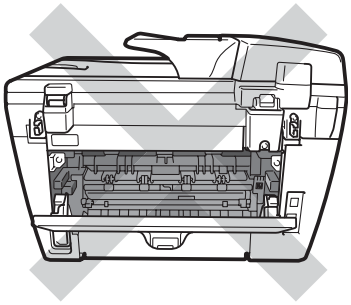


WARNING

HOT SURFACE

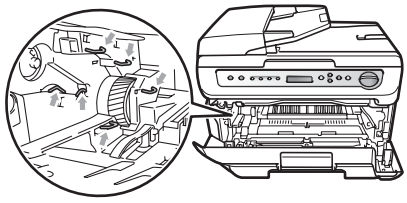
After you have just used the machine, some internal parts of the machine will be extremely hot. To prevent injury, when you open the front or back cover (back output tray) of the machine, DO NOT touch the shaded parts shown in the illustration.





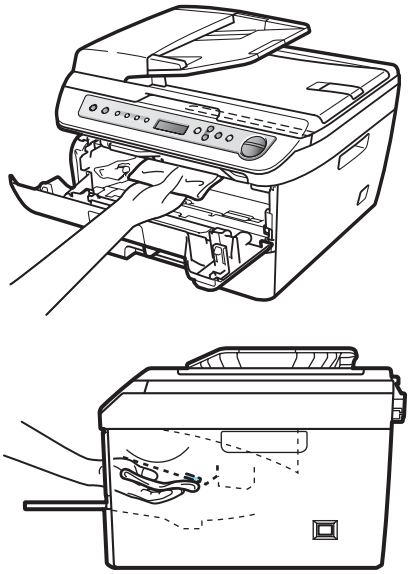
CAUTION

To prevent damage to the machine caused by static electricity, DO NOT touch the electrodes shown in the illustration.

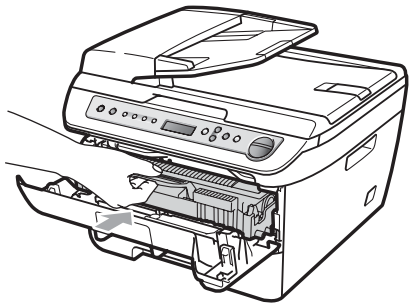


We recommend that you place the drum unit on a clean, flat surface with a piece of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.

3 Wipe the laser scanner window by wiping it with a clean soft, dry lint-free cloth.



4 Put the drum unit and toner cartridge assembly back in the machine.



5 Close the front cover.

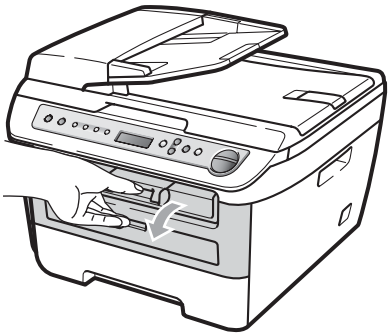
6 Plug the machine's power cord back into the electrical socket.
Turn on the machine's power switch.

Cleaning the corona wire

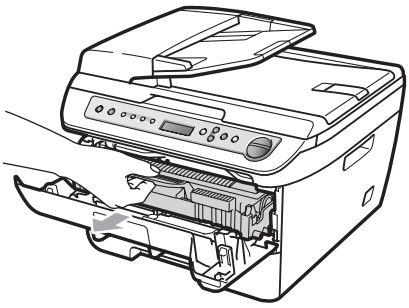
If you have print quality problems, clean the corona wire as follows:

1 Turn off the machine's power switch. Disconnect all cables, and then unplug the power cord from the electrical socket.

2 Open the front cover.



3 Slowly take out the drum unit and toner cartridge assembly.

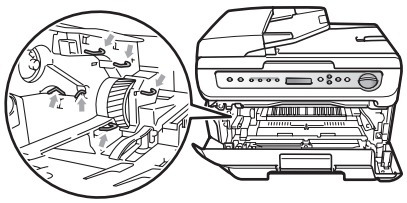


CAUTION

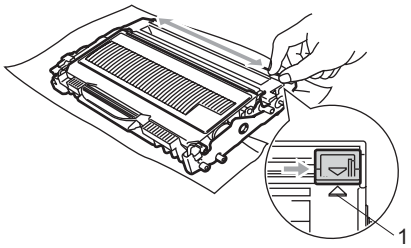
We recommend that you place the drum unit and toner cartridge assembly on a clean, flat surface with a piece of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.

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

To prevent damage to the machine caused by static electricity, DO NOT touch the electrodes shown in the illustration.



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



CAUTION

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

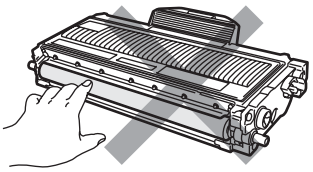
5 Put the drum unit and toner cartridge assembly back in the machine.

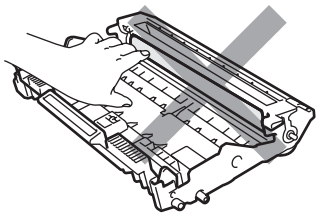
6 Close the front cover.

7 Plug the machine's power cord back into the electrical socket first, and then reconnect all cables. Turn on the machine's power switch.

CAUTION

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



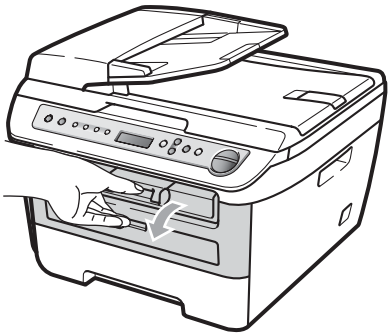


Cleaning the drum unit

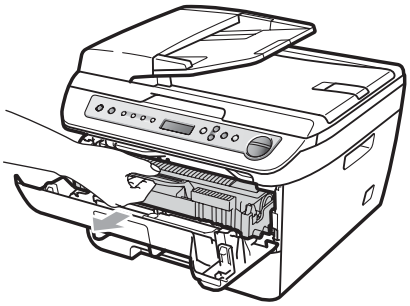
If you have print quality problems, clean the drum unit as follows.

1. Turn off the machine's power switch. Unplug the power cord from the electrical socket.

2. Open the front cover.



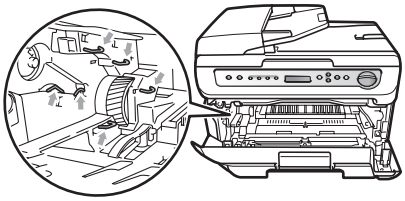
3. Slowly take out the drum unit and toner cartridge assembly.



CAUTION

We recommend that you put the drum unit and toner cartridge assembly on a clean, flat surface with a piece of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.

To prevent damage to the machine caused by static electricity, DO NOT touch the electrodes shown in the illustration.

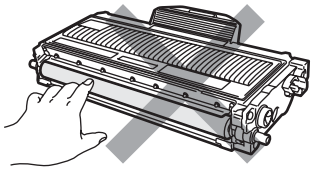


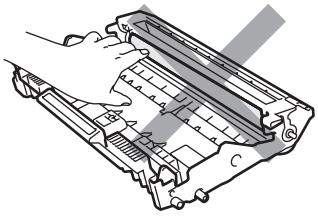
4. Push down the green lock lever and take the toner cartridge out of the drum unit.

CAUTION

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

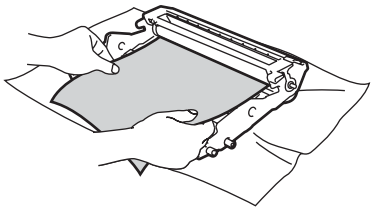
To avoid print quality problems, DO NOT touch the shaded parts shown in the illustrations below.



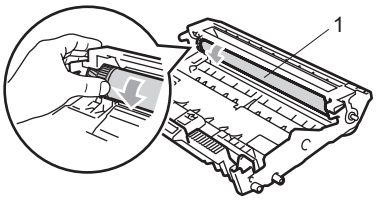


B

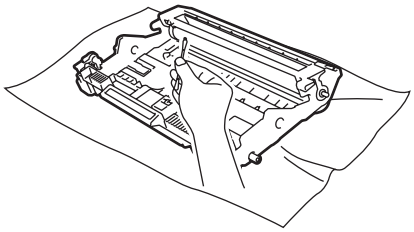
5 Put the print sample in front of the drum unit, and find the exact position of the poor print.



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



7 When you have found 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 glue on the surface comes off.



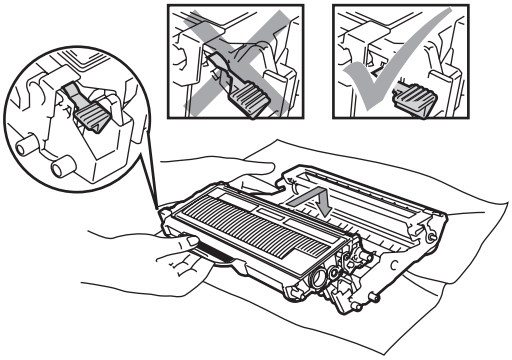
CAUTION

The drum is photosensitive so DO NOT touch it with your fingers.

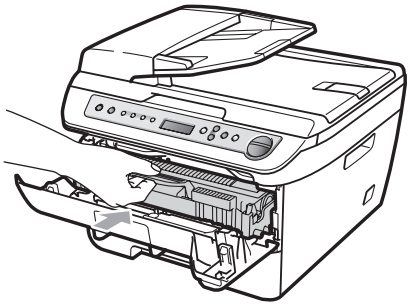
DO NOT clean the surface of the photosensitive drum with a sharp object.

DO NOT use excessive force when cleaning the drum unit.

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



9 Put the drum unit and toner cartridge assembly back in the machine.

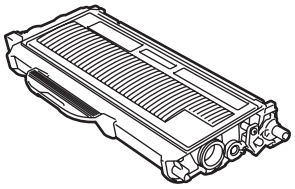
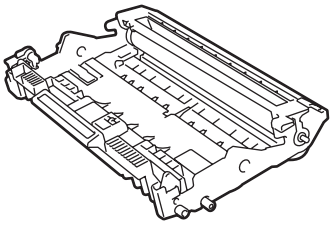


10 Close the front cover.

11 Plug the machine's power cord back into the electrical socket first, and then reconnect all cables. Turn on the machine's power switch.

Replacing the consumable items

You will need to replace the consumable items when the machine indicates that the life of the consumable is over.

Toner cartridge	Drum unit
	
Order No. TN-2110, TN-2120	Order No. DR-2100

Note

- Discard used consumable items according to local regulations. (See *EU Directive 2002/96/EC and EN50419* on page 39.) If you have questions, call your local waste disposal office. Be sure to reseal the consumable items tightly so that the material inside does not spill.
- We recommend placing used consumable items on a piece of paper to prevent accidentally spilling or scattering the material inside.
- If you use paper that is not a direct equivalent for the recommended paper, the life of consumable items and machine parts may be reduced.

Replacing a toner cartridge

The High Yield toner cartridges can print approximately 2,600 pages [1] and the Standard toner cartridges can print approximately 1,500 pages [1]. Actual page count will vary depending on your average type of document (i.e., standard letter, detailed graphics).
When a toner cartridge is running low, the LCD shows `Toner Low`.

[1] Approx. cartridge yield is declared in accordance with ISO/IEC 19752.

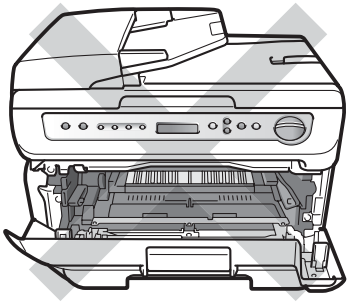
Note

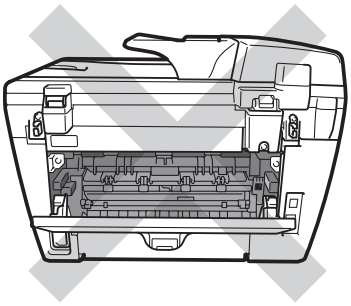
It is a good idea to keep a new toner cartridge ready for use when you see the `Toner Low` warning.

WARNING

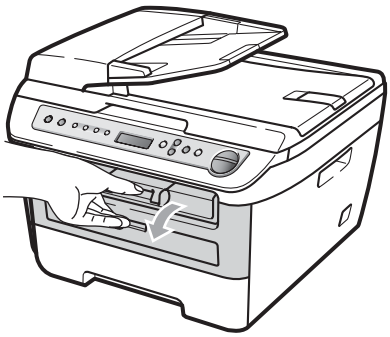
HOT SURFACE

After you have just used the machine, some internal parts of the machine will be extremely hot. To prevent injury, when you open the front or back cover (back output tray) of the machine, DO NOT touch the shaded parts shown in the illustration.

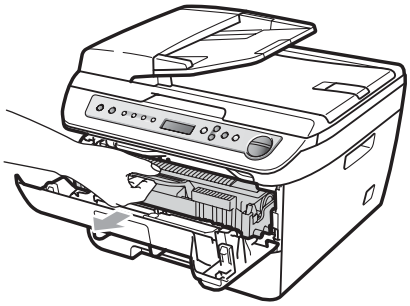




1. Open the front cover.



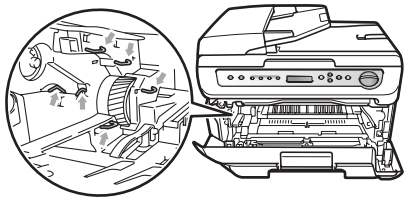
2. Slowly take out the drum unit and toner cartridge assembly.



CAUTION

We recommend that you put the drum unit and toner cartridge assembly on a clean, flat surface with a piece of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.

To prevent damage to the machine caused by static electricity, DO NOT touch the electrodes shown in the illustration.



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

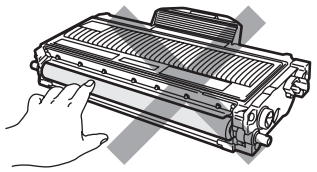
WARNING

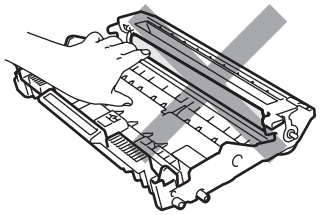
DO NOT put a toner cartridge into a fire. It could explode, resulting in injuries.

CAUTION

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

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





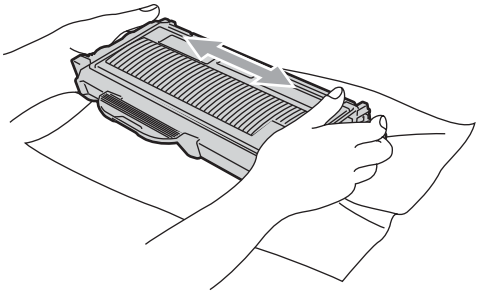
Brother machines are designed to work with toner of a particular specification and will work to a level of optimum performance when used with genuine Brother toner cartridges (TN-2110/TN-2120). Brother cannot guarantee this optimum performance if toner or toner cartridges of other specifications are used. Brother does not therefore recommend the use of cartridges other than genuine Brother cartridges with this machine, or the refilling of empty cartridges with toner from other sources. If damage is caused to the drum unit or other part of this machine as a result of the use of toner or toner cartridges other than genuine Brother products due to the incompatibility or lack of suitability of those products with this machine, any repairs required as a result may not be covered by the warranty.

Unpack the toner cartridge just before you put it in the machine. If a toner cartridge is left unpacked for a long time, the toner life will be shortened.

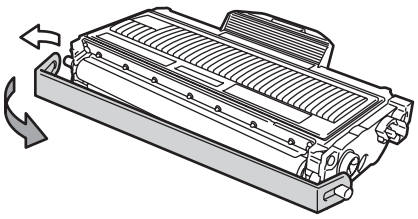
Note

Be sure to seal up the used toner cartridge tightly in a suitable bag so that toner powder does not spill out of the cartridge.

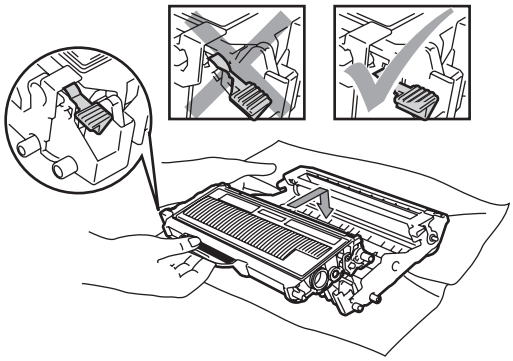
4 Unpack the new toner cartridge. Hold the cartridge level with both hands and gently rock it from side to side five or six times to spread the toner evenly inside the cartridge.



5 Pull off the protective cover.



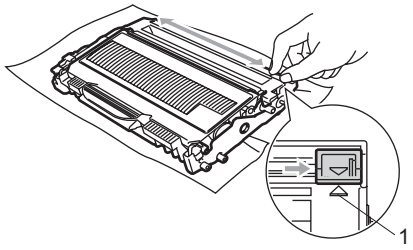
6 Put the new toner cartridge firmly into the drum unit until you hear it lock into place. If you put it in correctly, the lock lever will lift automatically.



CAUTION

Make sure that you put in the toner cartridge correctly or it may separate from the drum unit.

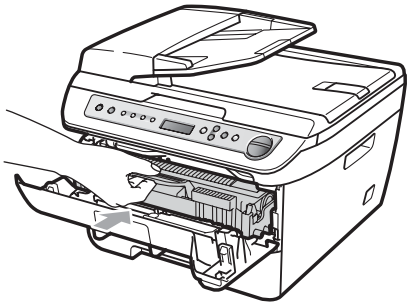
7 Clean the corona wire of the drum unit by gently sliding the green tab from right to left and left to right several times.



CAUTION

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

8 Put the drum unit and toner cartridge assembly back in the machine.



9 Close the front cover.

CAUTION

DO NOT turn off the machine's power switch or open the front cover until the LCD returns to the standby state.

Replacing the drum unit

The machine uses a drum unit to create print images on paper. If the LCD shows `Drum End Soon`, the drum unit is near the end of its life and it is time to buy a new one. Even if the LCD shows `Drum End Soon`, you may be able to continue printing without having to replace the drum unit for a while. However, if there is a noticeable deterioration in the output print quality (even before `Drum End Soon` appears), then the drum unit should be replaced. You should clean the machine when you replace the drum unit. (See *Cleaning the laser scanner window* on page 63.)

CAUTION

While removing the drum unit, handle it carefully because it may contain toner. If toner scatters on your hands or clothes, wipe or wash it off with cold water at once.

Note

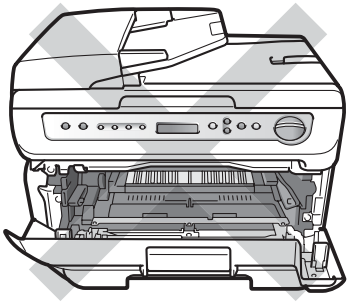
The drum unit is a consumable item, and it is necessary to replace it periodically. There are many factors that determine the actual drum life, such as temperature, humidity, type of paper and how much toner you use for the number of pages per print job. The estimated drum life is approximately 12,000 pages [1]. The actual number of pages 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.

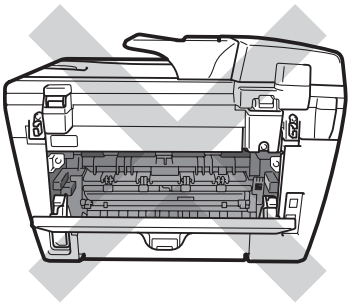
[1] Drum yield is approximate, and may vary by type of use.

WARNING

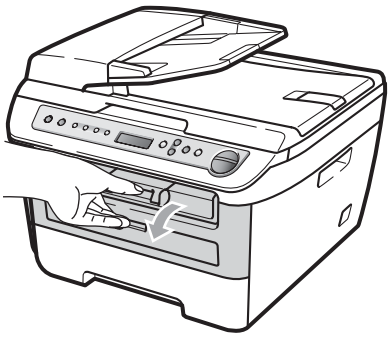
HOT SURFACE

After you have just used the machine, some internal parts of the machine will be extremely hot. To prevent injury, When you open the front or back cover (back output tray) of the machine, DO NOT touch the shaded parts shown in the illustration.

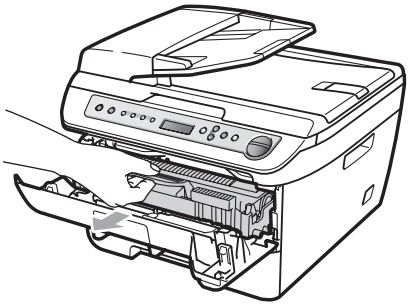




1. Open the front cover.



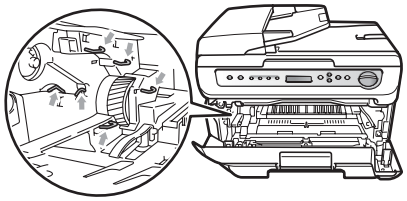
2 Slowly take out the drum unit and toner cartridge assembly.



CAUTION

We recommend that you put the drum unit and toner cartridge assembly on a clean, flat surface with a piece of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.

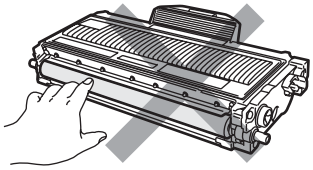
To prevent damage to the machine caused by static electricity, DO NOT touch the electrodes shown in the illustration.

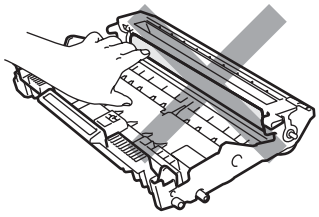


3 Push down the green lock lever and take the toner cartridge out of the drum unit.

CAUTION

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





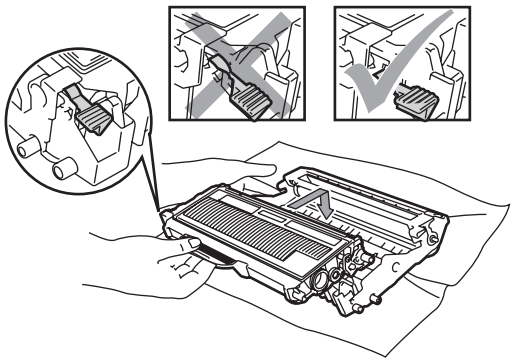
Wait to unpack a new drum unit until immediately before you put it in the machine. Exposure to direct sunlight or room light may damage the drum unit.

Note

Be sure to seal up the used drum unit tightly in a bag so that toner powder does not spill out of the unit.

4 Unpack the new drum unit.

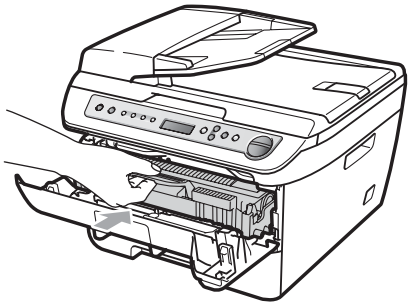
5 Put the toner cartridge firmly into the new drum unit until you hear it lock into place. If you put the cartridge in correctly, the green lock lever will lift automatically.



CAUTION

Make sure that you put in the toner cartridge correctly or it may separate from the drum unit.

6 Put the new drum unit and toner cartridge assembly in the machine.



7 Press **Clear/Back**.
To confirm you are installing a new drum, press ▲.

8 When the LCD shows `Accepted`, close the front cover.

B

Changing LCD language

You can change the LCD language.

1. Press **Menu**.
2. Press ▲ or ▼ to choose `1.General Setup`.
   Press **OK**.
3. Press ▲ or ▼ to choose `0.Local Language`.
   Press **OK**.
4. Press ▲ or ▼ to choose your language.
   Press **OK**.
5. Press **Stop/Exit**.

Machine information

Checking the serial number

You can see the machine's serial number on the LCD.

1. Press **Menu**.
2. (DCP-7030 and DCP-7040)
   Press ▲ or ▼ to choose `3.Machine Info`.
   Press **OK**.

   (DCP-7045N)
   Press ▲ or ▼ to choose `5.Machine Info`.
   Press **OK**.
3. Press ▲ or ▼ to choose `1.Serial No`.
   Press **OK**.
4. Press **Stop/Exit**.

Checking the page counters

You can see the machine's page counters for copies, printed pages, reports and lists or a summary total.

1. Press **Menu**.
2. (DCP-7030 and DCP-7040)
   Press ▲ or ▼ to choose `3.Machine Info`.
   Press **OK**.

   (DCP-7045N)
   Press ▲ or ▼ to choose `5.Machine Info`.
   Press **OK**.
3. Press ▲ or ▼ to choose `2.Page Counter`.
   Press **OK**.
4. Press ▲ or ▼ to choose `Total`, `List`, `Copy` or `Print`.
   You can see the machine's page count.
5. Press **Stop/Exit**.

Checking the Drum life

You can see the machine's drum life on the LCD.

1. Press **Menu**.
2. (DCP-7030 and DCP-7040)
   Press ▲ or ▼ to choose `3.Machine Info`.
   Press **OK**.

   (DCP-7045N)
   Press ▲ or ▼ to choose `5.Machine Info`.
   Press **OK**.
3. Press ▲ or ▼ to choose `3.Drum Life`.
   Press **OK**.
   You can see the remaining percentage of drum life.
4. Press **Stop/Exit**.

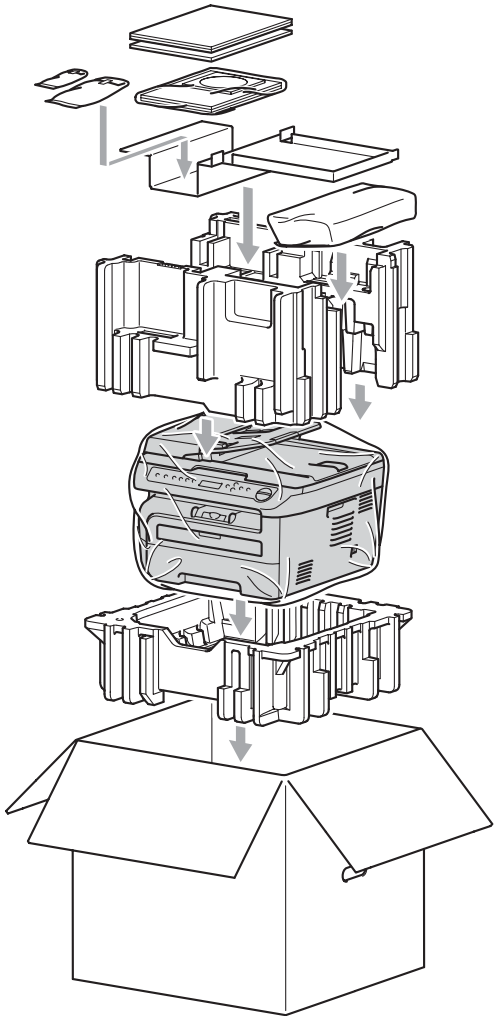
Packing and shipping the machine

CAUTION

Make sure that the machine has fully cooled down by leaving it disconnected from the power for at least 30 minutes before packing.

When you transport the machine, use the packing materials that came with your machine. If you do not pack the machine correctly, you could void your warranty.

1. Turn off the machine's power switch.
2. Unplug all the cables and AC power cord from the machine.
3. Open the front cover.
4. Remove the drum unit and toner cartridge assembly. Leave the toner cartridge installed in the drum unit.
5. Place the drum unit and toner cartridge assembly into the plastic bag and seal the bag.
6. Close the front cover.
7. Wrap the machine in the plastic bag and place it in the original carton with the original packing material.
8. Pack the drum unit and toner cartridge assembly, AC cord and printed materials in the original carton as shown below:



9. Close the carton and tape it shut.

C Menu and features

On-screen programming

Your machine has been designed to be easy to use. The LCD provides on-screen programming using the menu keys.

We have created step by step on-screen instructions to help you program your machine. Simply follow the steps as they guide you through the menu selections and programming options.

Menu table

You can program your machine by using the *Menu table* on page 80. These pages list the menu selections and options.

Press **Menu** followed by the menu numbers to program your machine.

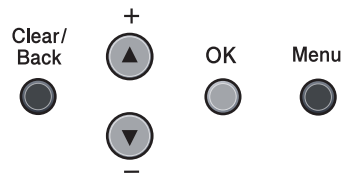
For example, to set `Beeper` volume to `Low`:

1. Press **Menu**.
2. Press ▲ or ▼ to choose `1.General Setup`.
   Press **OK**.
3. Press ▲ or ▼ to choose `3.Beeper`.
   Press **OK**.
4. Press ▲ or ▼ to choose `Low`.
   Press **OK**.
5. Press **Stop/Exit**.

Memory storage

Your menu settings are stored permanently, and in the event of a power failure will *not* be lost. Temporary settings (for example, Contrast) *will* be lost.

Menu keys



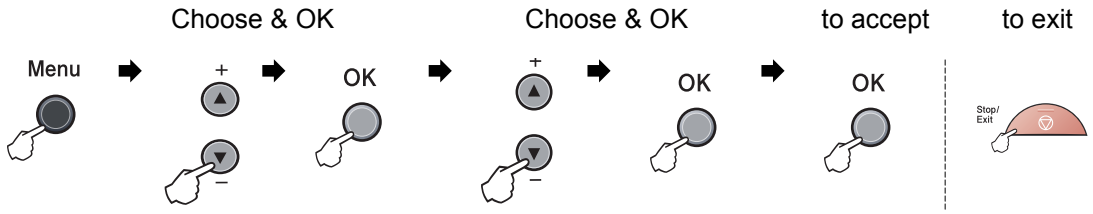
Menu	Access the menu.
OK	Go to the next menu level. Accept an option.
Clear/ Back	Exit the menu by pressing repeatedly. Go back to the previous menu level.
+ ▲ ▼ –	Scroll through the current menu level.
Stop/ Exit	Exit the menu.

How to access the menu mode

1. Press **Menu**.
2. Scroll through each menu level by pressing ▲ or ▼ for the direction you want.
3. Press **OK** when the option you want appears on the LCD.
   The LCD will then show the next menu level.
4. Press ▲ or ▼ to scroll to your next menu selection.
5. Press **OK**.
   When you have finished setting an option, the LCD will show `Accepted`.
6. Press **Stop/Exit** to exit Menu mode.

Menu table

The factory settings are shown in Bold with an asterisk.



Main Menu	Submenu	Menu Selections	Options	Descriptions	Page
1.General Setup	1.Paper Type	—	Thin **Plain*** Thick Thicker Transparency Recycled Paper	Sets the type of paper in the paper tray.	17
	2.Paper Size	—	**A4*** Letter Executive A5 A6 B5 B6	Sets the size of the paper in the paper tray.	17
	3.Beeper	—	Off Low **Med*** High	Adjusts the volume level of the beeper.	17
	4.Ecology	1.Toner Save	On **Off***	Increases the page yield of the toner cartridge.	18
		2.Sleep Time	(00-99) **05Min***	Conserves power.	18

The factory settings are shown in Bold with an asterisk.

Main Menu	Submenu	Menu Selections	Options	Descriptions	Page
1.General Setup (continued)	5.LCD Contrast	—	▼ -□□□□■+ ▲ ▼ -□□□■□+ ▲ ▼ **-□□■□□+ ▲*** ▼ -□■□□□+ ▲ ▼ -■□□□□+ ▲	Adjusts the contrast of the LCD.	19
	6.User Settings	—	—	Lists your current settings.	19
	7.Network Config (DCP-7045N only)	—	—	Lists your network settings.	19
	0.Local Language	—	(Choose your language.)	Allows you to change the LCD language for your country.	76
2.Copy	1.Quality	—	**Auto*** Text Photo	You can choose the Copy resolution for your type of document.	25
	2.Contrast	—	▼ -□□□□■+ ▲ ▼ -□□□■□+ ▲ ▼ **-□□■□□+ ▲*** ▼ -□■□□□+ ▲ ▼ -■□□□□+ ▲	Adjusts the contrast for copies.	24
3.Printer (DCP-7045N only)	1.Emulation	—	**Auto*** HP LaserJet BR-Script 3	Chooses the emulation mode.	*See Software User's Guide on the CD-ROM.*
	2.Print Options	1.Internal Font	—	Prints a list of the machine's internal fonts.	
		2.Configuration	—	Prints a list of the machine's printer settings.	
		3.Test Print	—	Prints a test page.	
	3.Reset Printer	Reset Exit	—	Restores the printer settings to the original factory default settings.	

The factory settings are shown in Bold with an asterisk.

Main Menu	Submenu	Menu Selections		Options	Descriptions	Page
4.LAN (DCP-7045N only)	**1.TCP/IP**	**1.Boot method**	—	**Auto*** Static RARP BOOTP DHCP	Chooses the BOOT method that best suits your needs.	*See Network User's Guide on the CD-ROM.*
		2.IP Address	—	[000-255]. [000-255]. [000-255]. [000-255]	Enter the IP address.	
		3.Subnet Mask	—	[000-255]. [000-255]. [000-255]. [000-255]	Enter the Subnet mask.	
		4.Gateway	—	[000-255]. [000-255]. [000-255]. [000-255]	Enter the Gateway address.	
		5.Node Name	—	BRN XXXXXXXXXXXX	Confirm the Node name.	
		6.WINS Config	—	**Auto*** Static	Chooses the WINS configuration mode.	
		7.WINS Server	—	(Primary) 000.000.000.000 (Secondary) 000.000.000.000	Specifies the IP address of the primary or secondary WINS server.	
		8.DNS Server	—	(Primary) 000.000.000.000 (Secondary) 000.000.000.000	Specifies the IP address of the primary or secondary DNS server.	
		9.APIPA	—	**On*** Off	Automatically allocates the IP address from the link-local address range.	

The factory settings are shown in Bold with an asterisk.

Main Menu	Submenu	Menu Selections		Options	Descriptions	Page
4.LAN (DCP-7045N only) (continued)	**1.TCP/IP** (continued)	**0.IPv6**	—	On **Off***	Enable or Disable the IPv6 protocol. If you want to use the IPv6 protocol, visit http://solutions.brother.com/ for more information.	*See Software User's Guide on the CD-ROM.*
	2.Ethernet	—	—	**Auto*** 100B-FD 100B-HD 10B-FD 10B-HD	Chooses the Ethernet link mode.	
	0.Factory Reset	**Reset**	—	Yes No	Restore all network settings to factory default.	
		Exit	—	—		
The factory settings are shown in Bold with an asterisk.						

C

Main Menu	Submenu	Menu Selections	Options	Descriptions	Page
3.Machine Info. (DCP-7030 and DCP-7040) **5.Machine Info.** (DCP-7045N)	**1.Serial No.**	—	—	You can check the serial number of your machine.	76
	2.Page Counter	—	Total List Copy Print	You can check the number of total pages the machine has printed during its life.	76
	3.Drum Life	—	—	You can check the percentage of a Drum life that remains available.	76
The factory settings are shown in Bold with an asterisk.					

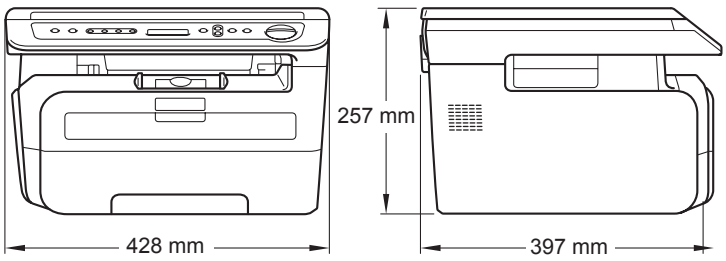
D Specifications

General

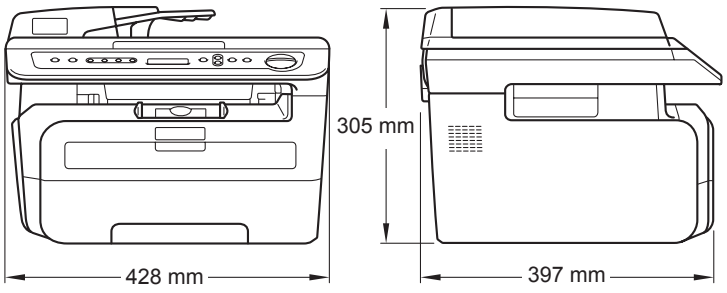
Printer Type	Laser	
Print Method	Electrophotography by semiconductor laser beam scanning	
Memory Capacity	16 MB (DCP-7030 and DCP-7040) 32 MB (DCP-7045N)	
LCD (liquid crystal display)	16 characters × 2 lines	
Power Source	220 - 240V 50/60Hz	
Power Consumption	Peak:	1056 W
	Copying:	Average 320 W [1]
	Sleep:	(DCP-7030) Average 8 W (DCP-7040) Average 9 W (DCP-7045N) Average 10 W
	Standby:	Average 75 W

[1] When making a copy from one sheet

Dimensions DCP-7030



DCP-7040 and DCP-7045N



Weight	Without Drum/Toner Unit:	
	(DCP-7030) 9.9 kg	
	(DCP-7040 and DCP-7045N) 11.1 kg	
Noise level	Sound power	
	Operating (Copying):	L_{WAd} = 6.2 Bell
	Standby:	L_{WAd} = 4.4 Bell
	Sound pressure	
	Operating (Copying):	L_{PAm} = 53 dBA
	Standby:	L_{PAm} = 32 dBA
Temperature	Operating:	10 to 32.5°C
	Storage:	5 to 35°C
Humidity	Operating:	20 to 80% (without condensation)
	Storage:	10 to 90% (without condensation)
ADF (automatic document feeder)	(DCP-7040 and DCP-7045N)	
	Up to 35 pages (Staggered) [80 g/m^2]	
	Recommended Environment for Best Results:	
	Temperature:	20 to 30°C
	Humidity:	50% - 70%
	Paper:	Xerox Premier TCF 80 g/m^2 or Xerox Business 80 g/m^2
Paper Tray	250 Sheets [80 g/m^2]	

Print media

Paper Input

Paper Tray

■ Paper Type:	Plain paper, Transparencies [1] or Recycled paper
■ Paper Size:	Letter, A4, B5 (ISO), A5, B6, A6 and Executive
■ Paper Weight:	60 to 105 g/m^2
■ Maximum paper tray capacity:	Up to 250 sheets of 80 g/m^2 plain paper

Manual Feed Slot

■ Paper Type:	Plain paper, Transparencies, Recycled paper, Bond paper, Envelopes or Labels [1]
■ Paper Size:	Width: 76.2 to 220 mm Length:116 to 406.4 mm
■ Paper Weight:	60 to 163 g/m^2
■ Maximum manual feed slot capacity:	One sheet at a time

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

Paper Output Up to 100 sheets (face down print delivery to the output paper tray)

Copy

Colour/Monochrome	Monochrome	
Document Size	(DCP-7040 and DCP-7045N) ADF Width:	148.0 to 215.9 mm
	(DCP-7040 and DCP-7045N) ADF Length:	148.0 to 355.6 mm
	Scanner Glass Width:	Max. 215.9 mm
	Scanner Glass Length:	Max. 297 mm
Copy Width	Max. 210 mm	
Multiple Copies	Stacks up to 99 pages	
	Sorts up to 99 pages (DCP-7040 and DCP-7045N)	
Reduce/Enlarge	25% to 400% (in increments of 1%)	
Resolution	Up to 600 × 600 dpi, 1200 dpi class	
First Copy Out Time	Less than 15 seconds (from Ready state) [1]	

[1] The first copy out time may vary depending on scanner lamp warm up time.

Scan

Colour/Monochrome	Yes/Yes
TWAIN Compliant	Yes (Windows® 2000 Professional/XP/ XP Professional x64 Edition/Windows Vista®) Mac OS X 10.2.4 or greater
WIA Compliant	Yes (Windows® XP/Windows Vista®)
Colour Depth	24 bit colour
Resolution	Up to 19200 × 19200 dpi (interpolated) [1] Up to 600 × 2400 dpi (optical) (From Scanner Glass) (DCP-7040 and DCP-7045N) Up to 600 × 600 dpi (optical) (From ADF)
Document Size	(DCP-7040 and DCP-7045N) ADF Width: 148.0 to 215.9 mm (DCP-7040 and DCP-7045N) ADF Length: 148.0 to 355.6 mm Scanner Glass Width: Max. 215.9 mm Scanner Glass Length: Max. 297 mm
Scanning Width	Max. 210 mm
Greyscale	256 levels

[1] Maximum 1200 × 1200 dpi scanning with the WIA driver in Windows® XP/Windows Vista® (resolution up to 19200 × 19200 dpi can be chosen by using the Brother scanner utility)

Print

Emulations (DCP-7045N only)	PCL6, BR-Script3 (PostScript®3)
Printer Driver	Host-Based Driver for Windows® 2000 Professional/ XP/XP Professional x64 Edition/Windows Vista® (DCP-7045N only) BR-Script3 (PPD file) for Windows® 2000 Professional/ XP/XP Professional x64 Edition/Windows Vista®/ Windows Server® 2003 (print only via network) Macintosh Printer Driver for Mac OS X 10.2.4 or greater (DCP-7045N only) BR-Script3 (PPD file) for Mac OS X 10.2.4 or greater
Resolution	HQ1200 (2400 × 600 dpi), 600, 300 dpi
Print Speed	Up to 22 pages/minute (A4 size) [1]
First Print Out Time	Less than 10 seconds (from Ready state and standard tray)

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

Interfaces

USB	Use a USB 2.0 interface cable that is no longer than 2.0 m. [1] [2]
LAN cable (DCP-7045N only)	Use an Ethernet UTP cable category 5 or greater.

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

[2] Third party USB ports are not supported for Macintosh.

Computer requirements

Minimum System Requirements and Supported PC Software Functions								
Computer Platform & Operating System Version		**Supported PC Software Functions**	**PC Interface**	**Processor Minimum Speed**	**Minimum RAM**	**Recommended RAM**	**Available Hard Disk Space**	
							For Drivers	**For Applications**
Windows® Operating System [1]	Windows® 2000 Professional [4]	Printing, Scanning	USB, 10/100Base Tx (Ethernet) (DCP-7045N only)	Intel® Pentium® II or AMD equivalent	64 MB	256 MB	150 MB	310 MB
	Windows® XP Home [2 4] Windows® XP Professional [2 4]				128 MB			
	Windows® XP Professional x64 Edition [2]			64-bit (Intel® 64 or AMD64) supported CPU	256 MB	512 MB		
	Windows Vista® [2]			Intel® Pentium® 4 or equivalent 64-bit (Intel® 64 or AMD64) supported CPU	512 MB	1 GB	500 MB	500 MB
	Windows Server® 2003 (print via network)	Printing	10/100Base Tx (Ethernet) (DCP-7045N only)	Intel® Pentium® III or equivalent	256 MB	512 MB	50MB	Not Available
	Windows Server® 2003 x64 Edition (print via network)			64-bit (Intel® 64 or AMD64) supported CPU				

D

Macintosh Operating System	Mac OS X 10.2.4 - 10.4.3	Printing, Scanning	USB [3], 10/100Base Tx (Ethernet) (DCP-7045N only)	PowerPC G4/G5, PowerPC G3 350MHz	128 MB	256 MB	80 MB	400 MB
	Mac OS X 10.4.4 or greater			PowerPC G4/G5, Intel® Core™ Processor	512 MB	1 GB		

1 Microsoft® Internet Explorer 5.5 or greater

2 For WIA, 1200x1200 resolution. Brother Scanner Utility enables to enhance up to 19200 x 19200 dpi.

3 Third party USB ports are not supported.

4 PaperPort™ 11SE supports Microsoft® SP4 or higher for Windows® 2000 and SP2 or higher for XP.

Consumable items

Toner Cartridge Life	Standard Toner Cartridge:	
	TN-2110:	Approx. 1,500 pages (A4) [1]
	High-Yield Toner Cartridge:	
	TN-2120:	Approx. 2,600 pages (A4) [1]
Drum Unit	**DR-2100**:	Approx. 12,000 pages (A4) [2]

[1] Approx. cartridge yield is declared in accordance with ISO/IEC 19752.

[2] Drum yield is approximate, and may vary by type of use.

Ethernet wired network (DCP-7045N only)

Network board model name	NC-6600h	
LAN	You can connect your machine to a network for Network Printing and Network Scanning [1].	
Support for	Windows® 2000 Professional, Windows® XP,	
	Windows® XP Professional x64 Edition, Windows Vista®, Windows Server® 2003 and Windows Server® 2003 x64 Edition [1]	
	Mac OS X 10.2.4 or greater [2]	
Protocols	TCP/IP for IPv4:	ARP, RARP, BOOTP, DHCP, APIPA (Auto IP), WINS/NetBIOS name resolution, DNS resolver, mDNS, LPR/LPD, Custom Raw Port/Port9100, IPP, FTP server, POP before SMTP, SMTP AUTH, TELNET, SNMPv1, HTTP Server, TFTP Client and Server, SMTP Client, APOP, LLMNR responder, ICMP, Web Services
	TCP/IP for IPv6:	(Turned off as default) NDP, RA, DNS resolver, mDNS, LPR/LPD, Custom Raw Port/Port9100, IPP, FTP Server, POP before SMTP, SMTP AUTH, TELNET, SNMPv1, HTTP Server, TFTP Client and Server, SMTP Client, APOP, LLMNR responder, ICMPv6, Web Services
	Other:	LLTD responder
Network type	Ethernet 10/100 BASE-TX Auto Negotiation (Wired LAN)	
Management utilities [3]	BRAdmin Light for Windows® 2000 Professional, Windows® XP, Windows® XP Professional x64 Edition, Windows Vista®, Windows Server® 2003, Windows Server® 2003 x64 Edition and Mac OS X 10.2.4 or greater	
	BRAdmin Professional for Windows® 2000 Professional, Windows® XP, Windows® XP Professional x64 Edition, Windows Vista®, Windows Server® 2003 and Windows Server® 2003 x64 Edition	
	Web BRAdmin for Windows® 2000 Professional, Windows® XP, Windows® XP Professional x64 Edition, Windows Vista®, Windows Server® 2003 and Windows Server® 2003 x64 Edition	
	Client computers with a web browser supporting Java.	

1 Printing only for Windows Server® 2003

2 Mac OS X 10.2.4 or greater (mDNS)

3 BRAdmin Professional and Web BRAdmin are available as a download from http://solutions.brother.com/

E Glossary

This is a comprehensive list of features and terms that appear in Brother manuals. Availability of these features depends on the model you purchased.

ADF (automatic document feeder)
(DCP-7040 and DCP-7045N) The document can be placed in the ADF and scanned one page at a time automatically.

Beeper Volume
Volume setting for the beep when you press a key or make an error.

Cancel Job
Cancels a programmed print job and clears the machine's memory.

Contrast
Setting to compensate for dark or light documents, by making copies of dark documents lighter and light documents darker.

Greyscale
The shades of grey available for copying photographs.

LCD (liquid crystal display)
The display screen on the machine that shows interactive messages during On-Screen Programming and shows the date and time when the machine is idle.

Menu mode
Programming mode for changing your machine's settings.

OCR (optical character recognition)
The bundled ScanSoft™ PaperPort™ 11SE with OCR or Presto! PageManager software application converts an image of text to text you can edit.

Resolution
The number of vertical and horizontal lines per inch.

Scanning
The process of sending an electronic image of a paper document into your computer.

Temporary settings
You can choose certain options for each copy without changing the default settings.

User Settings List
A printed report that shows the current settings of the machine.

F Index

A

ADF (automatic document feeder)
  using 15
Apple Macintosh
  See Software User's Guide on the CD-ROM.

C

Cancelling
  print jobs 5
Cleaning
  corona wire 65
  drum unit 67
  laser scanner window 63
  scanner glass 63
Consumable items 69
Control panel overview 5
ControlCenter2 (for Macintosh)
  See Software User's Guide on the CD-ROM.
ControlCenter3 (for Windows®)
  See Software User's Guide on the CD-ROM.
Copy
  contrast 22, 24
  Enlarge/Reduce key 23
  keys 5, 23
  multiple 22
  N in 1 (page layout) 26
  out of memory 27
  quality 25
  single 22
  sort (ADF only) 26
  temporary settings 23
  using ADF 26
  using scanner glass 26

D

Document
  how to load 15, 16
Drum unit
  checking (remaining life) 76
  cleaning 65, 67
  replacing 73

E

Enlarge/Reduce key 23
Envelopes 6, 11, 12, 13
  how to load 8
Error messages on LCD 54
  Init Unable XX 55
  No Paper 55
  Out of Memory 55
  Print Unable XX 55
  Scan Unable XX 55

G

Greyscale 95

H

HELP
  LCD messages 78
  Menu Table 78, 80
  using menu keys 78

J

Jams
  paper 57
Job Cancel key 5

L

Labels 11, 12, 15
LCD (liquid crystal display) 5, 78
  contrast 19

M

Machine information
  checking remaining life of drum unit 76
  page counts 76
Macintosh
  See Software User's Guide on the CD-ROM.
Maintenance, routine 62
  checking the remaining life of drum unit 76
  replacing
    drum unit 73

toner cartridge 69
Memory
storage 78
Menu Table 78, 80
using menu keys 78

N

N in 1 (page layout) 26
Network
printing
See Network User's Guide on the CD-ROM.
scanning
See Software User's Guide on the CD-ROM.

O

Out of Memory message 27, 55

P

Packing and shipping the machine 77
Page layout (N in 1) 26
Paper 11, 87
how to load 6
jam 57
recommended 11, 12
size 11, 17
size of document 88, 89
tray capacity 12
type 11, 17
PaperPort™ 11SE with OCR
See Software User's Guide on the CD-ROM and Help in the PaperPort™ 11SE application to access How-to-Guides.
Power failure 78
Print
difficulties 43
drivers 90
Job Cancel key 5
paper jams 57
quality 45, 48
resolution 90
specifications 90
Printing
See Software User's Guide on the CD-ROM.
Programming your machine 78

Q

Quality
copying 25
printing 45, 48

R

Reducing
copies 23
Replacing
drum unit 73
toner cartridge 69
Resolution
copy 88
print 90
scan 89

S

Safety instructions 40
Scanner glass
using 16
Scanning
See Software User's Guide on the CD-ROM.
Serial number
how to find See inside front cover
Shipping the machine 77
Sleep time 18
Sort 26

T

Temporary copy settings 23
Toner cartridge, replacing 69
Toner save 18
Transparency 7, 11
Troubleshooting 43
document jam 56
error messages on LCD 54
if you are having difficulty
copy quality 43
network 45
paper handling 44
print quality 45, 48
printing 43
scanning 44
software 44

maintenance messages on LCD 54
paper jam 57

V

Volume, setting
beeper 17

W

Windows®
See Software User's Guide on the CD-ROM.

This machine is approved for use in the country of purchase only. Local Brother companies or their dealers will only support machines purchased in their own countries.