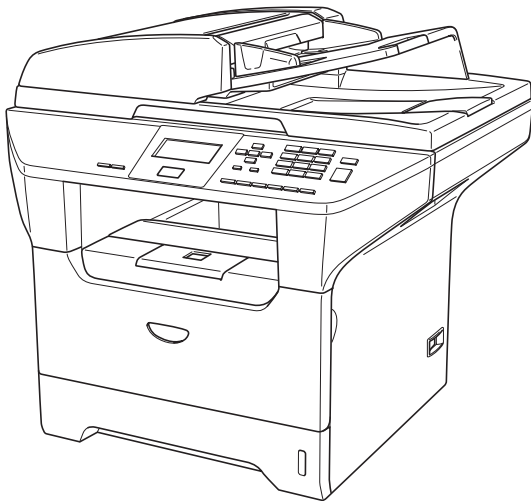


brother®

USER'S GUIDE



DCP-8060

Compilation and Publication Notice

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

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

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Table of Contents

Section I General

1 General information

Using the documentation	2
Symbols and conventions used in the documentation	2
Accessing the complete User's Guide	2
Viewing documentation	2
Control panel overview	4
Status LED indications	6

2 Loading documents and paper

Loading documents	8
Using the ADF	8
Using the scanner glass	9
Acceptable paper and other media	9
Recommended media	9
Handling and using media	10
Loading paper and other media	12
Loading paper	12
Loading envelopes and other media	13
Printable Area	14

3 General setup

Paper settings	15
Paper Type	15
Paper Size	15
Tray use in Copy mode	16
Tray use in Print mode	16
Volume Settings	17
Beeper volume	17
Ecology features	17
Toner save	17
Sleep time	17
Turning off the scanner lamp	18
LCD Contrast	18
User Settings Report	18

4 Security features

Security	19
Secure Function Lock	19

Section II Copy

5 Making copies

How to copy	23
Making a single copy	23
Making multiple copies	23
Stop copying	23
Copy options.....	23
Changing copy quality	24
Changing text copy resolution	24
Enlarging or reducing the image copied	25
Making N in 1 copies or a poster	26
Sorting copies using the ADF	28
Adjusting contrast	28
Tray Select	29
Out of Memory message	29

Section III Software

6 Software features

Section IV Appendices

A Safety and Legal

Choosing a location	33
Important Information.....	34
Safety precautions.....	34
IEC 60825-1 Specification	36
Disconnect device	37
Radio interference	37
Important safety instructions.....	37
Trademarks	39

B Options

Optional Paper Tray (LT-5300).....	40
Memory Board	40
DIMM types	40
Installing extra memory	41

C Troubleshooting and routine maintenance

Troubleshooting	42
Solutions to common problems	42
Improving the print quality	45

Error messages	49
Document jams.....	52
Paper jams	53
Routine maintenance.....	56
Cleaning the outside of the machine	56
Cleaning the scanner glass	58
Cleaning the laser scanner window.....	58
Cleaning the corona wire	60
Cleaning the drum unit	61
Replacing the toner cartridge (TN-3135/TN-3175)	62
Replacing the toner cartridge	62
Replacing the drum unit (DR-3150).....	65
Replacing periodic maintenance parts.....	67
How to change the LCD language.....	67
Packing and shipping the machine	67
Machine Information	68
Checking the serial number	68
Checking the page counters.....	68
Checking remaining life of parts	69

D Menu and Features

On-screen programming.....	70
Menu table.....	70
Memory storage.....	70
Menu keys	70
Menu Table.....	72
Entering Text	76

E Specifications

General	77
Print media.....	78
Copy	79
Scan.....	79
Print	80
Interfaces.....	80
Computer requirements	81
Consumable items	81

F Glossary

Glossary.....	82
---------------	----

G Index

Index	83
-------------	----



General

General information	2
Loading documents and paper	8
General setup	15
Security features	19

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.
<i>Italics</i>	Italicized style emphasises 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.



Warning icons tell you what to do to avoid the risk of injury.



Electrical Hazard icons alert you to a possible electrical shock.



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



Caution icons tell you about procedures you must follow to prevent damaging the machine.



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



Note icons give useful tips.

Accessing the complete User's Guide

The printed User's Guide does not contain all the information about your machine. The advanced features of the Printer and Scanner are explained in the complete User's Guide that you can find on the CD-ROM.

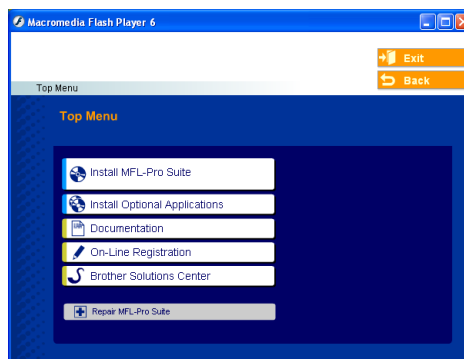
Viewing documentation

Viewing documentation (Windows®)

To view the documentation, from the **Start** menu, point to **Brother, MFL Pro Suite** from the program group, and then click **User's Guide**.

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 into your CD-ROM drive.
- 2 Select 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 *setup.exe* program from the root directory of the Brother CD-ROM.

- 4 Click **Documentation**.
- 5 Click the documentation you want to read:
 - *Setup Guide*: Setup and software installation instructions.
 - *User's Guide*: User's Guide for stand-alone operations and Software User's Guide.

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) in Chapter 2
- Using ControlCenter2 in Chapter 3

PaperPort® User's Guide

- Instructions for scanning directly from Presto!® PageManager®

Viewing Documentation (Macintosh®)

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



- 2 Double-click the **Documentation** icon.
- 3 If the language selection screen appears, double-click your language.

- 4 Double-click the documentation you want to read:
 - *Setup Guide*: Setup and Software installation instructions.
 - *User's Guides*: User's Guide for stand-alone operations and Software User's Guide.

How to find Scanning instructions

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

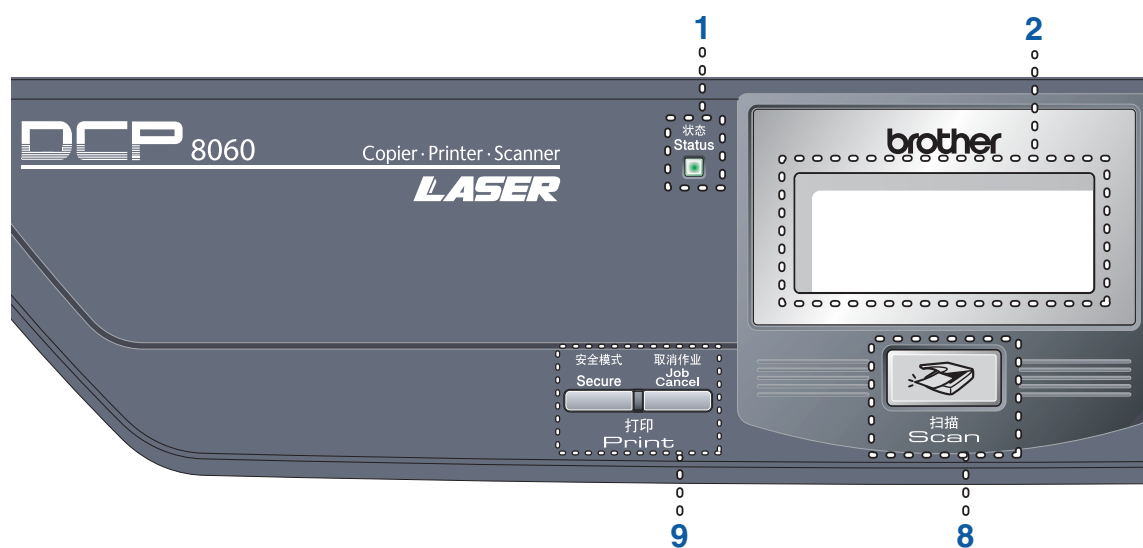
Software User's Guide:

- Scanning from a Macintosh® in Chapter 8 (For Mac OS® X 10.2.4 or greater)
- Using the ControlCenter2 in Chapter 9 (For Mac OS® X 10.2.4 or greater)

Presto!® PageManager® User's Guide

- Instructions for scanning directly from Presto!® PageManager®

Control panel overview



1 Status LED (light emitting diode)

The LED will flash and change colour depending on the machine's status.

2 LCD (liquid crystal display)

Displays messages to help you use your machine.

3 Menu keys:

Menu

Accesses the main menu.

Clear/Back

Deletes entered data or lets you exit the menu.

OK

Selects a setting.

◀ or ▶

Scrolls backwards or forwards through menu selections.

▲ or ▼

Scrolls through the menus and options.

4 Dial pad

Used to enter text.

5 Stop/Exit

Stops an operation or exits from a menu.

6 Start

Starts copying or scanning.

7 Copy keys

Contrast

Lets you change the contrast for the next copy.

Quality

Lets you change the quality for the next copy.

Enlarge/Reduce

Reduces or enlarges copies.

Tray Select

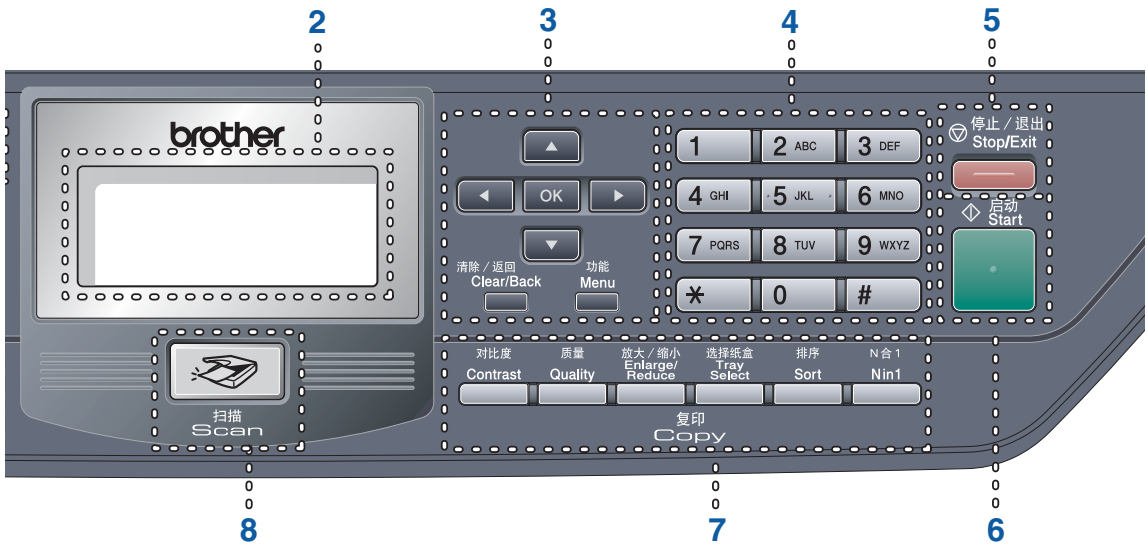
Lets you change which tray will be used for the next copy.

Sort

Sorts multiple copies using the ADF.

N in 1

You can choose N in 1 to copy 2 or 4 pages onto one page.



8 Scan

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

9 Print keys

Secure

When using Secure Function Lock, you can switch restricted users by holding down **Secure** as you press **Secure**.
(See *Secure Function Lock* on page 19.)

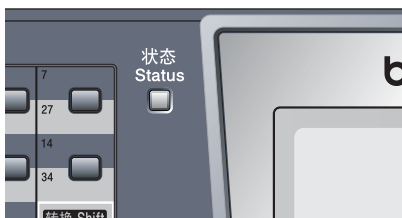
You can print data saved in memory by entering your four-digit password.
(For details about using the **Secure** key, see the *Software User's Guide on the CD-ROM*.)

Job Cancel








Press this key to cancel a print job and clear the machine's memory.






Status LED indications



The **Status** LED (light emitting diode) will flash and change color depending on the machine's status.



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

LED				LED Status
				LED is off.
	 Green	 Yellow	 Red	LED is on.
	 Green	 Yellow	 Red	LED is blinking.

LED	Machine Status	Description
	Sleep Mode	The power switch is off or the machine is in Sleep mode.
 Green	Warming Up	The machine is warming up for printing.
 Green	Ready	The machine is ready to print.
 Yellow	Receiving Data	The machine is either receiving data from the computer, processing data in memory, or printing data.
 Yellow	Data Remaining in Memory	Print data remains in the machine memory.

 Red	Service error	Follow the steps below. 1. Turn off the power switch. 2. Wait a few seconds, and then turn it back on and try to print again. If you cannot clear the error and see the same service call indication after turning the machine back on, please call your Brother dealer for service.
 Red	Cover open	The front cover or fuser cover is open. Close the cover.
	Toner Life End	Replace the toner cartridge with a new one.
	Paper error	Put paper in the tray or clear the paper jam. Check the LCD message.
	Scan lock	Check that the scanner lock lever is released.
	Others	Check the LCD message.
	Out of memory	Memory is full.

**Note**

When the power switch is off or the machine is in Sleep mode, the LED is off.

2

Loading documents and paper

Loading documents

All scan and copy operations can be performed from the ADF or the scanner glass.

Using the ADF

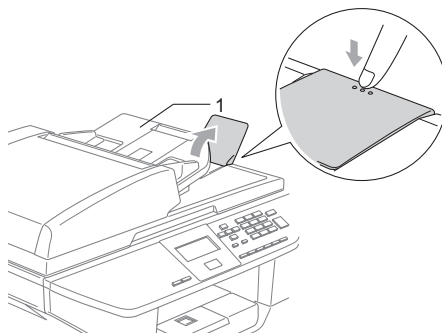
You can use the ADF (automatic document feeder) to scan or copy sheets of paper. The ADF feeds each sheet one at a time.

When loading the ADF, make sure that documents written with ink are completely dry.

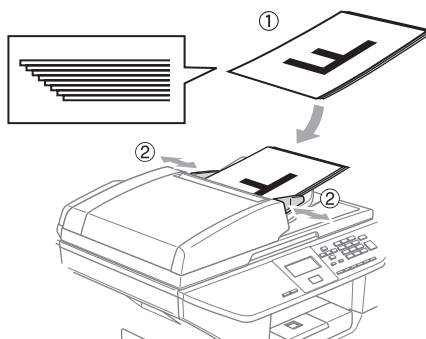
Documents must be from 148.0 to 215.9 mm wide (5.8 to 8.5 inches) wide and from 148.0 to 355.6 mm (5.8 to 14 inches) long, and of a standard weight (80 g/m² (20 lb)).

For information on the capacity of the ADF see *Specifications* on page 77.

- 1 Unfold the ADF document output support flap (1).



- 2 Fan the pages well.
- 3 Place your documents face up, top edge first in the ADF until you feel them touch the feed roller.
- 4 Adjust the paper guides to fit the width of your documents.



! CAUTION

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

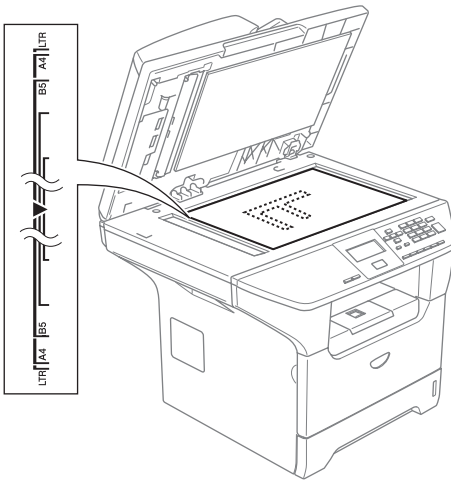
To scan non-standard documents, see *Using the scanner glass* on page 9.

Using the scanner glass

You can use the scanner glass to scan, or copy the pages of a book or single sheets of paper. Documents can be up to 215.9 mm wide and up to 355.6 mm long (8.5 inches wide to 14 inches long).

To use the scanner glass, the ADF must be empty.

- 1 Lift the document cover.



- 2 Using the document guidelines on the left, center 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.

Acceptable paper and other media

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

You can use the following types of media: plain 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/m² (20 to 24 lb).
- Use labels or transparencies which are designed for use in laser printers.
- When using transparencies remove each sheet immediately to prevent smudging or paper jams.
- Let printed paper cool down before removing it from the output tray.
- Use long grain paper with a neutral Ph value, and a moisture content around 5%.

Recommended media

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

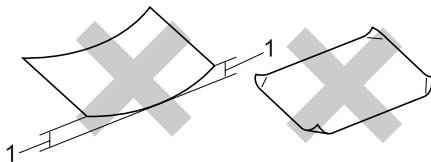
Paper Type	Item
Plain paper	APP Blue Flag Ship 70 g/m ²
Transparency	3M CG 3300
Labels	Avery laser label L7163

Handling and using media

- Store paper in its original packaging and keep it sealed. Keep the paper flat and away from moisture, direct sunlight and heat.
- Avoid touching either side of transparencies, as this can decrease the print quality.
- Only use transparencies recommended for laser printing.
- Only use sharply creased envelopes.

Improper Setup

Do not use any of the following paper, as they will cause paper feed problems: *damaged, coated, curled, wrinkled, highly textured, irregularly shaped, or paper that has previously been printed on by a printer.*



- 1 4 mm (0.08 in.) or longer

Paper capacity of the paper tray

	Paper size	Paper types	No. of sheets
Paper Tray (Tray #1)	A4, Letter, Executive, A5, A6, B5 and B6	Plain paper, Recycled paper and Bond paper	up to 250 [80 g/m ² (20 lb)]
		Transparency	up to 10
Multi-purpose tray (MP tray)	Width: 69.9 to 215.9 mm (2.75 to 8.5 in.) Length: 116.0 to 406.4 mm (4.57 to 16.0 in.)	Plain paper, Recycled paper, Bond paper, Envelope and Labels	up to 50 [80 g/m ² (20 lb)]
		Transparency	up to 10
Paper Tray (Tray #2)	A4, Letter, Executive, A5, B5 and B6	Plain paper, Recycled paper and Bond paper	up to 250 [80 g/m ² (20 lb)]

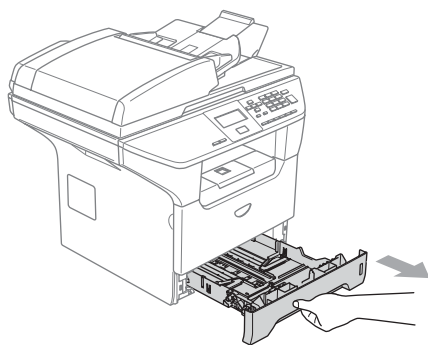
Loading paper and other media

When printing on plain paper 60 to 105 g/m² (16 to 28 lb) or laser transparencies use the paper tray.

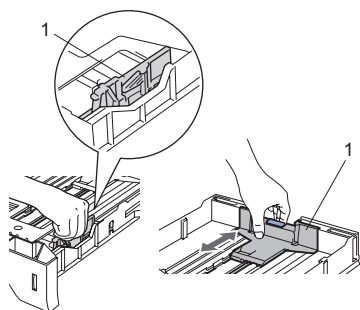
For printing on other types of media use the MP tray (Multi-purpose tray).

Loading paper

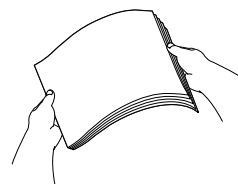
- 1 Unfold the output paper tray support flap.
- 2 Pull the paper tray completely out of the machine.



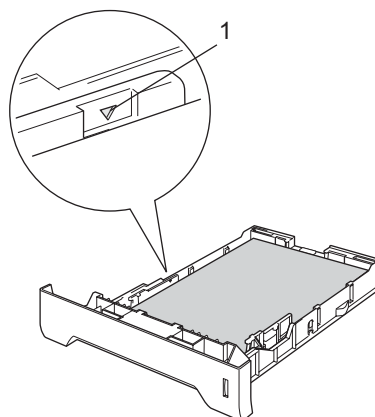
- 3 While pressing the blue paper-guide release lever (1), slide the paper guides to fit the paper size. Make sure that the guides are firmly in the slots.



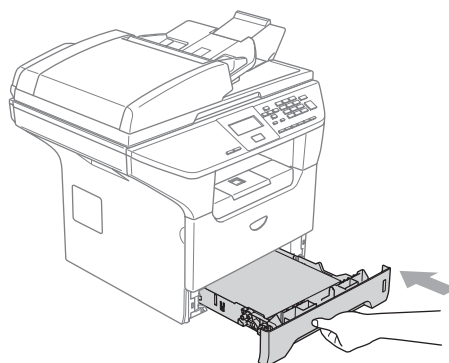
- 4 Fan the stack of paper well to avoid paper feeding problems.



- 5 Insert the paper into the paper tray with the top edge of the paper first and the print side down. Make sure that the paper is flat in the tray and below the maximum paper mark (1).



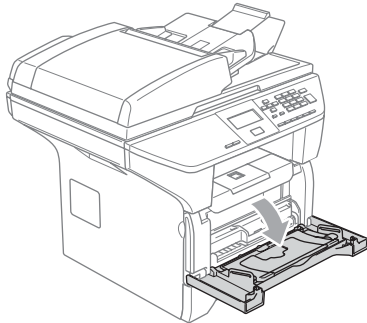
- 6 Push the paper tray firmly back into the machine.



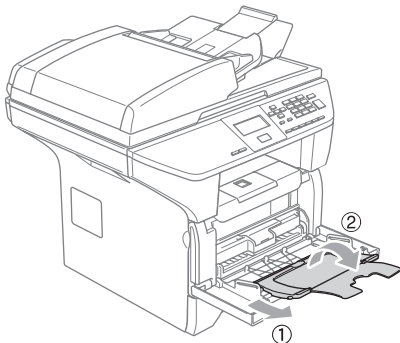
Loading envelopes and other media

Use the MP tray when printing envelopes, labels, and thick paper.

- 1 Open the MP tray and lower it gently.



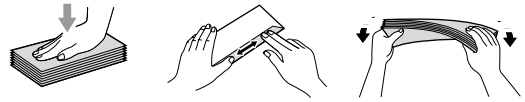
- 2 Pull out the MP tray support.



- 3 Insert the media into the MP tray with the top edge first and the printing side face up. Make sure that the media is staggered and stays under the maximum paper mark (▼) on both sides of the tray.
- 4 While pressing the media-guide release lever, slide the media guide to fit the media size.

Loading Envelopes

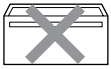



Before loading, press the corners and sides of the envelopes to make them as flat as possible.



! CAUTION

Do not use the following types of envelopes, as they will cause paper feed problems:

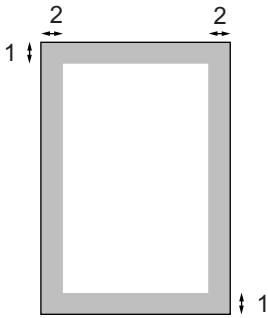
- 1 Envelopes with a baggy construction.
- 2 Embossed envelopes (those with a raised surface).
- 3 Envelopes with clasps or staples.
- 4 Envelopes that are pre-printed on the inside.

Glue	Rounded flap	Double flap	Triangular flap
			

Printable Area

Printable Area for copies

The printable area of your machine begins at approximately 3 mm (0.12 in.) from the top and bottom and 2.05 mm (0.08 in.) from both sides of the paper.



- 1 3 mm (0.12 in.)
- 2 2.05 mm (0.08 in.)



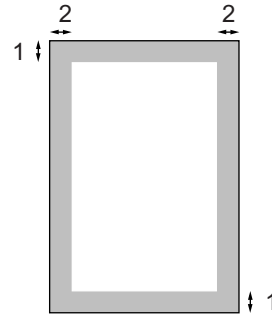
Note

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

Printable Area when printing from a computer

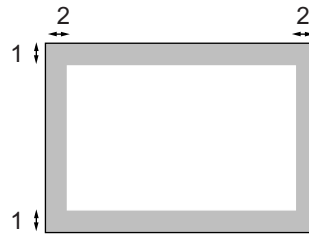
When using the default driver the printable area is smaller than the paper size, as shown below.

Portrait



- 1 4.23 mm (0.16 in.)
- 2 6.01 mm (0.24 in.)

Landscape



- 1 4.23 mm (0.16 in.)
- 2 5 mm (0.19 in.)



Note

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

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 Choose one of the options below:
 - To set the paper type for the MP Tray press **Menu, 1, 1, 1**.
 - To set the paper type for Tray#1 press **Menu, 1, 1, 2**.
 - To set the paper type for Tray#2 press **Menu, 1, 1, 3** if you installed the optional tray.

```

11.Paper Type
  1.MP Tray
  ▲ Plain
  ▼ Thick
Select ▲▼ & OK
  
```

- 2 Press **▲** or **▼** to select Thin, Plain, Thick, Thicker, Transparency or Recycled Paper. Press **OK**.
- 3 Press **Stop/Exit**.



Note

- Transparency is not available for the optional Tray #2.
- You can choose Transparency only if A4, Letter, Legal or Folio size was chosen as the paper size.

Paper Size

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

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 Choose one of the options below:
 - To set the paper size for the MP Tray press **Menu, 1, 2, 1**.
 - To set the paper size for Tray#1 press **Menu, 1, 2, 2**.
 - To set the paper size for Tray#2 press **Menu, 1, 2, 3** if you installed the optional tray.

```

12.Paper Size
  1.MP Tray
  ▲ A4
  ▼ Letter
Select ▲▼ & OK
  
```

- 2 Press **▲** or **▼** to select A4, Letter, Legal, Executive, A5, A6, B5, B6, Folio or Any. Press **OK**.
- 3 Press **Stop/Exit**.



Note

- Any appears only when you select the MP tray (**Menu, 1, 2, 1**).
- If you select Any for the MP Tray Paper Size: You must choose MP Only for the Tray Use setting. You cannot use the Any Paper Size selection for the MP tray when making N in 1 copies. You must choose one of the other available Paper Size selections for the MP tray.
- A6 size is not available for the optional Tray #2.

Tray use in Copy mode

You can change the default tray priority that the machine will use for printing copies.

When you select Tray#1 Only, MP Only or Tray#2 Only¹, the machine loads the paper only from that tray. If the selected tray is out of paper, No Paper will appear on the LCD. Insert the paper in the empty tray.

To change the tray setting follow the instructions below:

- 1 Press **Menu, 1, 5, 1**.

```
15.Tray Use
 1.Copy
▲  MP>T1
▼  T1>MP
Select ▲▼ & OK
```

- 2 Press **▲** or **▼** to select Tray#1 Only, Tray#2 Only¹, MP Only, MP>T1>T2¹ or T1>T2¹>MP. Press **OK**.

¹ Tray#2 Only and T2 appear only if the optional tray is installed.

- 3 Press **Stop/Exit**.



Note

- When loading the documents from the ADF and MP>T1>T2 or T1>T2>MP is selected, the machine looks for the tray with the most suitable paper and takes paper from that tray. If no tray has suitable paper, the machine takes paper from the tray with the highest priority.
- When using the scanner glass, your document is copied from the tray with the highest priority even if more suitable paper is in another paper tray.

Tray use in Print mode

You can change the default tray priority the machine will use for printing from your computer.

When you select Tray#1 Only, MP Only or Tray#2 Only¹, the machine loads the paper only from that tray. If the selected tray is out of paper, No Paper will appear on the LCD. Insert the paper in the empty tray.

- 1 Press **Menu, 1, 5, 2**.

```
15.Tray Use
 2.Print
▲  MP>T1
▼  T1>MP
Select ▲▼ & OK
```

- 2 Press **▲** or **▼** to select Tray#1 Only, Tray#2 Only¹, MP Only, MP>T1>T2¹ or T1>T2¹>MP. Press **OK**.

¹ Tray#2 Only and T2 appear only if the optional tray is installed.



Note

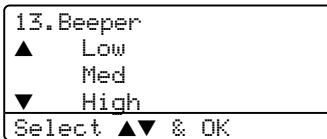
- The setting in the printer driver will take priority over the setting made on the control panel.
- If the control panel is set to Tray#1 Only, Tray#2 Only, MP Only or MP>T1>T2 and you choose 'Auto Select' in the printer driver, the tray use will be MP>T1>T2. If the control panel is set to T1>T2>MP and you choose 'Auto Select' in the printer driver, the tray use will remain T1>T2>MP.

Volume Settings

Beeper volume

When the beeper is on, the machine will beep when you press a key and make a mistake. You can select a range of volume levels from a range of settings, from *High* to *Off*.

- 1 Press **Menu**, **1**, **3**.



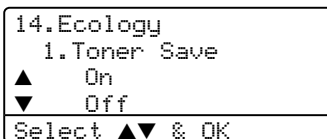
- 2 Press **▲** or **▼** to select *Off*, *Low*, *Med* or *High*. Press **OK**.
- 3 Press **Stop/Exit**.

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**, **1**, **4**, **1**.



- 2 Press **▲** or **▼** to choose *On* (or *Off*). Press **OK**.
- 3 Press **Stop/Exit**.

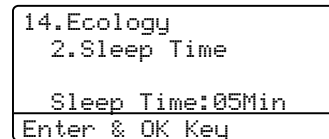
Sleep time

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**, **1**, **4**, **2**.



- 2 Enter the length of time the machine is idle before entering sleep mode (00 to 99). Press **OK**.
- 3 Press **Stop/Exit**.

To turn off sleep mode, press **Secure** and **Job Cancel** at the same time in ②. Press **▲** or **▼** to select *Off* (or *On*). Press **OK**.



Note

When you turn off sleep mode, the setting will take effect the next time the machine copies, prints or is turned off and on.

Turning off the scanner lamp

The scanner lamp stays on for 16 hours before automatically switching off to preserve the life of the lamp and reduce power consumption.

To turn the scanner lamp off manually press the ◀ and ▶ keys simultaneously. The scanner lamp will remain turned off until the next time you use the scanning feature.



Note

Turning the lamp off regularly will reduce the lamp's life.

LCD Contrast

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

- 1 Press **Menu**, **1**, **6**.

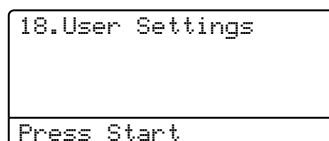


- 2 Press ▶ to make the LCD darker. Or, press ◀ to make the LCD lighter. Press **OK**.
- 3 Press **Stop/Exit**.

User Settings Report

You can print a list of the Settings you programmed.

- 1 Press **Menu**, **1**, **8**.



- 2 Press **Start**.

Security

Secure Function Lock

Secure Function Lock lets you restrict Public access to certain operations (Copy, Scan and PCprint). This feature also prevents users from changing the default settings of the machine by limiting access to the Menu settings.

Disabling at least one function is required to turn on Secure Function Lock for the Public user.

Access to restricted operations can be enabled by creating a restricted user. Restricted users must select the stored name and enter a password to use the machine.

Make a careful note of your password. If you forget it, please call Brother Customer Service.



Note

- You can set up to 25 individual users and one Public user.
- When you set up a Public user, you can restrict one or more of the machine's functions to all users who do not have a password.
- Only administrators can set limitations and make changes for each user.
- When PCprint is disabled, computer print jobs will be lost without notification.

Setting the password for the administrator

The password you set in these steps is for the administrator. This password is used to set up users and to turn Secure Function Lock on or off. See *Setting up restricted users* on page 20 and *Turning Secure Function Lock on* on page 21.

- 1 Press **Menu**, 1, 7.

17.Function Lock
New Passwd:XXXX
Enter & OK Key

- 2 Enter a four-digit number for the password. Press **OK**.
- 3 Re-enter the password when the LCD shows *Verify:.* Press **OK**.
- 4 Press **Stop/Exit**.

Setting up the Public user

You can set up the Public user. Public users do not need to enter a password.



Note

You must disable at least one function.

- 1 Press **Menu, 1, 7**.

```
17.Function Lock
▲ Lock Off→On
  Set Password
▼ Setup User
Select ▲▼ & OK
```

- 2 Press **▲** or **▼** to select **Setup User**. Press **OK**.

- 3 Enter the administrator password. Press **OK**.

```
17.Function Lock
  Setup User
▲ Public
▼ User01
Select ▲▼ & OK
```

- 4 Press **▲** or **▼** to select **Public**. Press **OK**.
- 5 Press **▲** or **▼** to select **Enable** or **Disable** for **Copy**. Press **OK**. After you have set **Copy**, repeat this step for **Scan** and **PCprint**¹. Press **OK**.

¹ You can set **PCprint** for only the **Public** user.

- 6 Press **Stop/Exit**.

Setting up restricted users

You can set up users with restrictions and a password.

- 1 Press **Menu, 1, 7**.

```
17.Function Lock
▲ Lock Off→On
  Set Password
▼ Setup User
Select ▲▼ & OK
```

- 2 Press **▲** or **▼** to select **Setup User**. Press **OK**.

- 3 Enter the administrator password. Press **OK**.

```
17.Function Lock
  Setup User
▲ Public
▼ User01
Select ▲▼ & OK
```

- 4 Press **▲** or **▼** to select **User01**. Press **OK**.

- 5 Use the dial pad to enter the user name. (See *Entering Text* on page 76.) Press **OK**.

- 6 Enter a four-digit password for the user. Press **OK**.

- 7 Press **▲** or **▼** to select **Enable** or **Disable** for **Copy**. Press **OK**. After you have set **Copy**, repeat this step for **Scan**. Press **OK**.

- 8 Repeat **4** to **7** for entering each additional user and password.

- 9 Press **Stop/Exit**.

Turning Secure Function Lock on/off

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

Turning Secure Function Lock on

- 1 Press **Menu**, **1**, **7**.

```

17.Function Lock
▲   Lock Off→On
    Set Password
▼   Setup User
-----
Select ▲▼ & OK
  
```

- 2 Press **▲** or **▼** to select `Lock Off→On`. Press **OK**.
- 3 Enter your four-digit administrator password. Press **OK**.

Turning Secure Function Lock off

- 1 Press **Menu**, **1**, **7**.

```

17.Function Lock
▲   Lock On→Off
    Change User
▼
-----
Select ▲▼ & OK
  
```

- 2 Press **▲** or **▼** to select `Lock On→Off`. Press **OK**.
- 3 Enter your four-digit administrator password. Press **OK**.

Switching Users

This setting allows another user to log on the machine when Secure Function Lock is turned on.



Note

After a restricted user has finished using the machine, it will return to the Public setting in one minute.

- 1 Hold down **◀** as you press **Secure**.

```

Function Lock
Change User
▲   John
▼   Mary
-----
Select ▲▼ & OK
  
```

- 2 Press **▲** or **▼** to select the registered name of the user to be logged on. Press **OK**.
- 3 Enter your four-digit password. Press **OK**.



Copy

Making copies

23

5

Making copies

How to copy

Making a single copy

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

Making multiple copies

- 1 Load your document.
- 2 Use the dial pad to enter the number of copies (up to 99).
- 3 Press **Start**.



Note

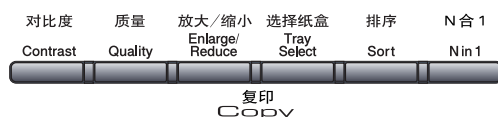
To sort your copies, press **Sort**. (See *Sorting copies using the ADF* on page 28).

Stop copying

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

Copy options

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



The machine returns to its default settings 60 seconds after it finishes copying.

Changing copy quality

You can select 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 instruction below:

- 1 Load your document.
- 2 Use the dial pad to enter the number of copies (up to 99).
- 3 Press **Quality**.
- 4 Press ◀ or ▶ to choose *Auto*, *Text* or *Photo*. Press **OK**.
- 5 Press **Start**.

To change the default setting, follow the instructions below:

- 1 Press **Menu, 2, 1**.

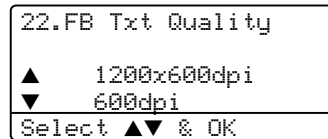


- 2 Press ▲ or ▼ to choose the copy quality. Press **OK**.
- 3 Press **Stop/Exit**.

Changing text copy resolution

You can change the text copy resolution to 1200x600dpi if you have selected *Text* from the **Quality** options, and make a copy with 100% ratio using the scanner glass. To change the text copy resolution, follow the instructions below:


- 1 Put your document on the scanner glass.
- 2 Press **Menu, 2, 2**.



- 3 Press ▲ or ▼ to choose the text copy resolution. Press **OK**.
- 4 Press **Stop/Exit**.

Enlarging or reducing the image copied

You can select the following enlargement or reduction ratios:

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

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

Auto sets the machine to calculate the reduction ratio that best fits the size of paper.

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

- 1 Load your document.
- 2 Use the dial pad to enter the number of copies (up to 99).
- 3 Press **Enlarge/Reduce**.
- 4 Press **Enlarge/Reduce** or ►.

- 5 Choose one of the options below:
 - Press ▲ or ▼ to select the enlargement or reduction ratio you want. Press **OK**.
 - Press ▲ or ▼ to select *Custom* (25-400%). Press **OK**. Use the dial pad to enter an enlargement or reduction ratio from 25% to 400%. (For example, press **5 3** to enter 53%.) Press **OK**.

- 6 Press **Start**.



Note

- The Auto setting is available only when loading from the ADF.
- Page Layout Options 2 in 1(P), 2 in 1(L), 4 in 1(P), 4 in 1(L) or Poster are not available with Enlarge/Reduce. (P) means Portrait and (L) means Landscape.

Making N in 1 copies or a poster

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.

You can also make a poster. When you use the poster feature your machine divides your document into sections, then enlarges the sections so you can assemble them into a poster. If you want to print a poster, use the scanner glass.

Important

- Please make sure the paper size is set to Letter, A4, Legal or Folio.
- (P) means Portrait and (L) means Landscape.
- You cannot use the Enlarge/Reduce setting with the N in 1 and poster features.
- You can only make one poster copy at a time.

- 1 Load your document.
- 2 Use the dial pad to enter the number of copies (up to 99).
- 3 Press **N in 1**.
- 4 Press ▲ or ▼ to select 2 in 1 (P), 2 in 1 (L), 4 in 1 (P), 4 in 1 (L), Poster (3 x 3) or Off (1 in 1). Press **OK**.
- 5 Press **Start** to scan the page. If you are making a poster or placed the document in the ADF, the machine scans the pages and starts printing.

If you are using the scanner glass, go to 6.

- 6 After the machine scans the page, press **1** to scan the next page.

```

Flatbed Copy:
  Next Page?
▲ 1.Yes
▼ 2.No
Select ▼▲ & OK
  
```

- 7 Put the next page on the scanner glass. Press **OK**. Repeat 6 and 7 for each page of the layout.
- 8 After all the pages have been scanned, press **2** to finish.

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)



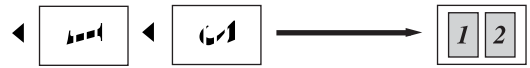
■ 4 in 1 (L)



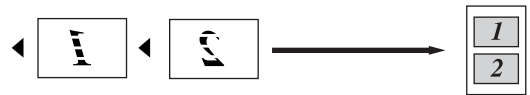
If you are copying from the scanner glass:

Insert your document face down in the direction shown below:

■ 2 in 1 (P)



■ 2 in 1 (L)



■ 4 in 1 (P)

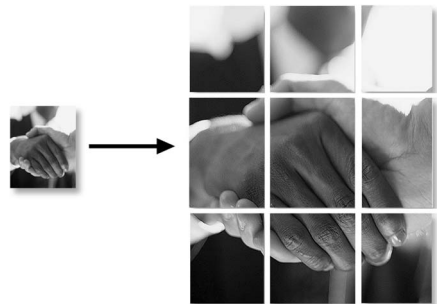


■ 4 in 1 (L)



■ **Poster (3x3)**

You can make a poster size copy of a photograph.



Sorting copies using the ADF

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.
- 2 Use the dial pad to enter the number of copies (up to 99).
- 3 Press **Sort**.
- 4 Press **Start**.

Adjusting contrast

Contrast

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

To temporarily change the contrast setting, follow the instruction below:

- 1 Load your document.
- 2 Use the dial pad to enter the number of copies (up to 99).
- 3 Press **Contrast**.

```

Contrast:-□□■□□+ ▶
Quality :Auto
Enlg/Red:100%
Tray    :MP>T1
Select ◀ ▶ & OK
  
```

- 4 Press ◀ or ▶ to increase or decrease the contrast. Press **OK**.
- 5 Press **Start**.

To change the default setting follow the instructions below:

- 1 Press **Menu, 2, 3**.

```

23.Contrast
      -□□■□□+
Select ◀ ▶ & OK
  
```

- 2 Press ◀ or ▶ to change the contrast. Press **OK**.
- 3 Press **Stop/Exit**.

Tray Select

You can change the tray use only for the next copy.

- 1 Load your document.
- 2 Use the dial pad to enter the number of copies (up to 99).
- 3 Press **Tray Select**.

```

Contrast:-□□■□□+
Quality :Auto
Enlg/Red:100%
Tray    :MP>T1
Select ◀▶ & OK
  
```

- 4 Press ◀ or ▶ to select the tray usage. Press **OK**.
- 5 Press **Start**.

Press Tray Select	MP>T1 or M>T1>T2
	T1>MP or T1>T2>M
	#1 (XXX)*
	#2 (XXX)*
	MP (XXX)*

* XXX is the paper size you set in **Menu, 1, 2**.



Note

- T2 and #2 appear only if the optional paper tray is installed.
- To change the Tray Select setting, see *Tray use in Copy mode* on page 16.

Out of Memory message

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

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.

If you run out of memory, you can add it. See *Memory Board* on page 40.



Software

Software features

31

The User's Guide on the CD-ROM includes the Software User's Guide for features available when connected to a computer (for example, Printing and Scanning).

■ Printing

(For Windows[®], see *Chapter 1 in the Software User's Guide on the CD-ROM.*)

(For Macintosh[®], see *Chapter 7 in the Software User's Guide on the CD-ROM.*)

■ Scanning

(For Windows[®], see *Chapter 2 in the Software User's Guide on the CD-ROM.*)

(For Macintosh[®], see *Chapter 8 in the Software User's Guide on the CD-ROM.*)

■ ControlCenter2

(For Windows[®], see *Chapter 3 in the Software User's Guide on the CD-ROM.*)

(For Macintosh[®], see *Chapter 9 in the Software User's Guide on the CD-ROM.*)



Note

See *Accessing the complete User's Guide* on page 2.



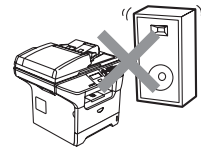
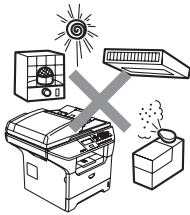
Appendices

Safety and Legal	33
Options	40
Troubleshooting and routine maintenance	42
Menu and Features	70
Specifications	77
Glossary	82

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° and 32.5° C.

- 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.
- Avoid sources of interference, such as speakers, or the base units of cordless phones.



Important Information

Safety precautions

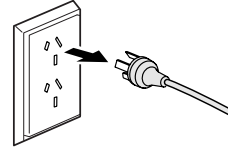
Please read these instructions before attempting any maintenance, and keep them for later reference.

- 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.
- Do not use flammable substances near the machine.
Doing this might cause a fire or electrical shock.
- 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. If you are not sure, contact a qualified electrician.

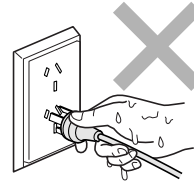
! WARNING



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



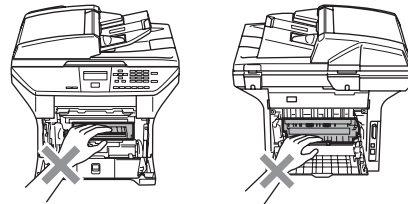
Do not handle the plug with wet hands. Doing this might cause an electrical shock.



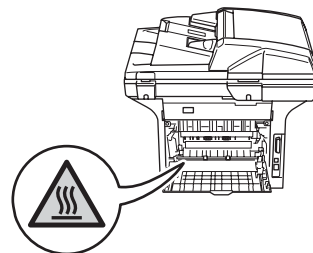
Always make sure the plug is fully inserted.



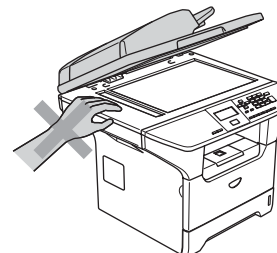
After you have just used the machine, some internal parts of the machine will be extremely hot. When you open the front or back cover of the machine, DO NOT touch the shaded parts shown in the illustration.



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



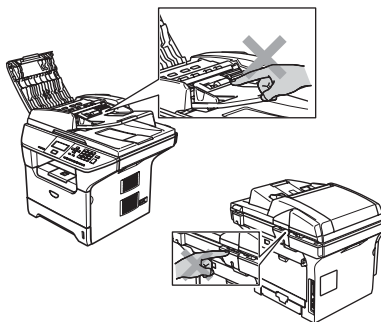
To prevent injuries, be careful not to put your hands on the edge of the machine under the document cover as shown in the illustration.



A

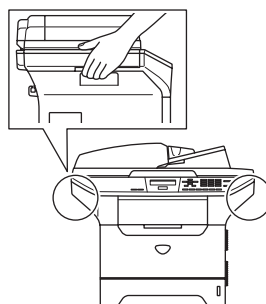


To prevent injuries, DO NOT put your fingers in the area shown in the illustrations.



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.



IEC 60825-1 Specification

This machine is a Class 1 laser product as defined in IEC 60825-1 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

Wave length: 770 - 810 nm

Output: 5 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 emergency, you must disconnect the power cord from the electrical socket to shut off power completely.

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.

- 1 A shielded parallel interface cable with twisted-pair conductors and that is marked IEEE 1284 compliant. The cable must not exceed 2.0 metres in length.
- 2 A USB cable which must not exceed 2.0 metres in length.

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 outlet before cleaning the outside of the machine and the scanner glass. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- 5 Do not place this product near water.
- 6 Do not place this product on an unstable cart, stand, or table. The product may drop, causing serious damage to the product.
- 7 Slots and openings in the cabinet 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.
- 8 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. If you are not sure, contact a qualified electrician.
- 9 This product is equipped with a 3-wire grounding type plug, a plug having three pins. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.

- 10 Do not place anything on top of the power cord including this machine. Do not allow the power cord to be stepped on.
- 11 If an extension cord is used with this product, make sure that the total ampere ratings on the products plugged into the extension cord do not exceed the extension cord ampere rating.
- 12 Do not place anything in front of the machine that will block printed pages.
- 13 Do not touch a document during printing.
- 14 Never push objects of any kind into this product through cabinet slots, since they may touch dangerous voltage points or short out parts resulting in the risk of fire or electric shock. Never spill liquid of any kind on the product.
- 15 Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points and/or other risks, and may void your warranty. Please refer all servicing to our Authorized Service Personnel. A list of Authorized Service Centres has been included for your convenience, or you may contact the Brother Dealer for Service.
- 16 Unplug this product from the wall outlet and refer all servicing to Authorized Service Personnel under the following conditions:
 - If the power cord is damaged or frayed.
 - If the product has been spilled by liquid.
 - 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 cabinet has been damaged.
 - If the product exhibits a distinct change in performance, indicating a need for service.
- 17 To protect your product against power surges, we recommend the use of a power protection device (Surge Protector).



WARNING

For protection against the risk of electrical shock, always disconnect all cables from the wall outlet before servicing, modifying or installing the equipment.

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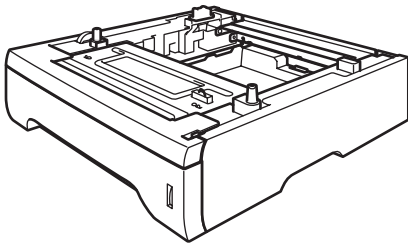
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Optional Paper Tray (LT-5300)

An optional lower tray can be installed, and it can hold up to 250 sheets of 80 g/m² (20 lb) paper.

When an optional tray is installed, the machine can hold up to 550 sheets of plain paper. If you want to buy an optional lower tray unit, contact your Brother dealer.



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

Memory Board

This machine has 32 MB of standard memory and one slot for optional memory expansion. You can expand the memory up to 544 MB by installing dual in-line memory modules (DIMMs). When you add the optional memory, it increases the performance for both copier and printer operations.

DIMM types

You can install the following DIMM:

- 128 MB Buffalo Technology VN133-D128 / VN133-X128
- 256 MB Buffalo Technology VN133-D256
- 512 MB Buffalo Technology VN133-D512
- 64 MB TechWorks 12165-0004
- 128 MB TechWorks 12462-0001
- 256 MB TechWorks 12485-0001
- 512 MB TechWorks 12475-0001



Note

- For more information, visit the Buffalo Technology site at <http://www.buffalotech.com>.
- For more information, visit the Techworks web site at <http://www.techworks.com>.

In general, the DIMM must have the following specifications:

Type: 144 pin and 64 bit output

CAS latency: 2

Clock frequency: 100 MHz or more

Capacity: 64, 128, 256 or 512 MB

Height: 1.25 in. (31.75 mm)

Dram Type: SDRAM 2 Bank

SDRAM can be used.

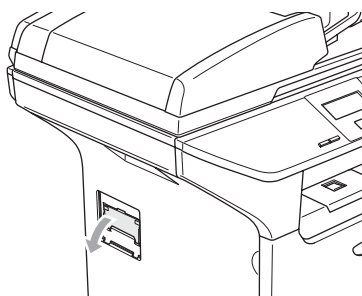
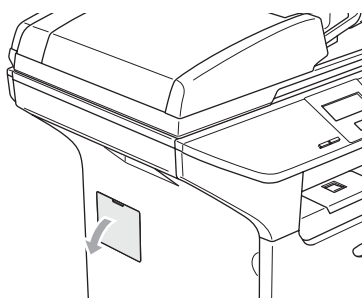


Note

- There might be some DIMMs that will not work with the machine.
- For more information, contact your Brother dealer.

Installing extra memory

- 1 Turn off the machine's power switch.
- 2 Disconnect the interface cable from the machine, and then unplug the power cord from the electrical socket.
- 3 Remove the DIMM cover and interface access cover.

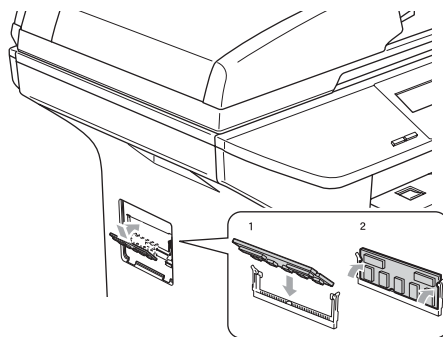


- 4 Unpack the DIMM and hold it by its edges.

! CAUTION

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

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



- 6 Put the interface access cover and the DIMM cover back on.
- 7 Plug the machine's power cord back into the electrical socket first, and then connect the interface cable.
- 8 Turn on the machine's power switch.

C

Troubleshooting and routine maintenance

Troubleshooting

Solutions to common problems

If you think there is a problem with your machine make a copy first. If the copy looks good, the problem is probably not your machine. Check the chart below and follow the troubleshooting tips. You can solve most problems 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>.

Copy Quality Difficulties

Difficulties	Suggestions
Vertical streaks appear in copies.	Either the scanner or the primary corona wire for printing is dirty. Clean them both. (See <i>Cleaning the scanner glass</i> on page 58 and <i>Cleaning the corona wire</i> on page 60.)

Printing Difficulties

Difficulties	Suggestions
Poor print quality	See <i>Improving the print quality</i> on page 45.
Vertical black lines on copies or printouts	The primary corona wire may be dirty. Clean the primary corona wire. (See <i>Cleaning the corona wire</i> on page 60.) If the problem continues, call Brother or your dealer for service.
No printout.	<ul style="list-style-type: none"> ■ Check that the machine is plugged in and the power switch is turned on. ■ Check that the toner cartridge and drum unit are installed properly. (See <i>Replacing the drum unit (DR-3150)</i> on page 65.) ■ Check the interface cable connection on both the machine and your computer. (See <i>the Quick Setup Guide</i>.) ■ Check that the correct printer driver has been installed and chosen. ■ Check to see if the LCD is showing an error message. (See <i>Error messages</i> on page 49.) ■ The machine is online. On your PC, click Start, then Settings, and then Printers and Faxes. Right-click 'Brother DCP-XXXX (where XXXX is your model name)'. Make sure that 'Use Printer Offline' is unchecked.
The machine prints unexpectedly or it prints garbage.	<ul style="list-style-type: none"> ■ Turn off the machine's power switch and then turn it on again. If the error message continues leave the machine for several minutes and then try it again. ■ Check the settings in your application to make sure it is set up to work with your machine. ■ If you are using the parallel port connection, check that the port is set to BRMFC and not LPT1.

Printing Difficulties (Continued)

Difficulties	Suggestions
The machine prints the first couple of pages correctly, then some pages have text missing.	Your computer is not recognizing the machine's input buffer's full signal. Make sure that you connected the interface cable correctly. (See <i>the Quick Setup Guide</i> .)
The machine cannot print full pages of a document. Out of Memory message appears.	<ul style="list-style-type: none"> ■ Reduce the printing resolution. (See <i>Advanced tab in the Software User's Guide on the CD-ROM</i>.) ■ Reduce the complexity of your document and try again. Reduce the graphic quality or the number of font sizes within your application. ■ Add more memory. See <i>Installing extra memory</i> on page 41.
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.
The machine is not printing or has stopped printing and the machine's status LED is yellow.	Press Job Cancel . As the machine cancels the job and clears it from the memory it may produce an incomplete printout. Try to print again.

Scanning Difficulties

Difficulties	Suggestions
TWAIN errors appear while scanning.	Make sure that the Brother TWAIN driver is chosen as the primary source. In PaperPort®, click File, Scan and choose the Brother TWAIN driver .

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 <i>Advanced tab in the Software User's Guide on the CD-ROM</i> .)
When using ATM fonts, some characters are missing or some characters are printed in their place.	If you are using Windows® 98/98SE/Me, click Start, Settings , and then Printers . Right-click Brother DCP-XXXX (where XXXX is your model name) and click Properties . Click Spool Setting on the Details tab. Choose RAW from Spool Data Format .
'Unable to write to LPT1', 'LPT1 already in use' or 'MFC is Busy' error message appears.	Make sure that the machine is on (plugged into the electrical socket and the power switch turned on) and that it is connected directly to the computer using the IEEE-1284 bi-directional parallel cable. The cable must not go through another peripheral device (such as a Zip Drive, External CD-ROM Drive, or Switch box).
	Make sure that the LCD does not show an error message.
	Make sure no other device drivers, which also communicate through the parallel port, are running automatically when you turn on the computer (such as, drivers for Zip Drives, External CD-ROM Drive, etc.) Suggested areas to check: (Load=, Run=command lines in the win.ini file or the Setup Group)
	Check with your computer manufacturer to confirm that the computer's parallel port settings in the BIOS are set to support a bi-directional machine; i.e. (Parallel Port Mode – ECP)





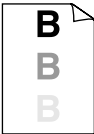

Paper Handling Difficulties



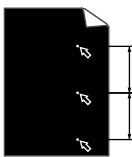
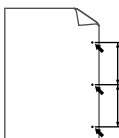

Difficulties	Suggestions
<p>The machine does not load paper.</p> <p>The LCD shows No Paper or a Paper Jam message.</p>	<ul style="list-style-type: none"> ■ If there is no paper, load a new stack of paper into the paper tray. ■ If there is paper in the paper tray, make sure it is straight. If the paper 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. ■ Check that the MP tray mode is not selected in the printer driver. ■ If the LCD shows a Paper Jam message and you still have a problem, see <i>Paper jams</i> on page 53.
<p>The machine does not feed paper from the MP tray.</p>	<ul style="list-style-type: none"> ■ Fan the paper well and put it back in the tray firmly. ■ Make sure that MP tray mode is chosen in the printer driver.
<p>I need to know how to load envelopes.</p>	<p>You can load envelopes from the MP tray. 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.</p>
<p>I need to know which paper is good to use.</p>	<p>You can use plain paper, recycled paper, envelopes, transparencies and labels that are made for laser machines. (For details, see <i>Acceptable paper and other media</i> on page 9.)</p>
<p>There is a paper jam.</p>	<p>See <i>Paper jams</i> on page 53.</p>






Print Quality Difficulties


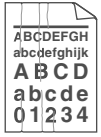

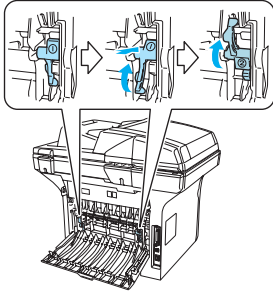

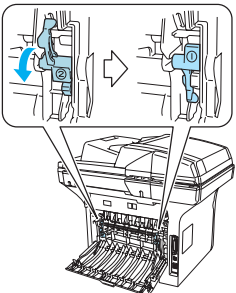
Difficulties	Suggestions
<p>Printed pages are curled.</p>	<ul style="list-style-type: none"> ■ Low quality thin or thick paper or not printing on the recommended side of the paper could cause this problem. Try turning over the stack of paper in the paper tray. ■ Make sure that you choose the Paper Type that suits the media type you are using. (See <i>Acceptable paper and other media</i> on page 9.)
<p>Printed pages are smeared.</p>	<p>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 <i>Acceptable paper and other media</i> on page 9 and <i>Basic tab in the Software User's Guide on the CD-ROM</i>.)</p>
<p>Printouts are too light.</p>	<ul style="list-style-type: none"> ■ If this problem occurs when making copies turn Toner Save mode to off in the machine menu setting. (See <i>Toner save</i> on page 17.) ■ Set Toner Save mode to off in the Advanced tab in the printer driver. (See <i>Advanced tab in the Software User's Guide on the CD-ROM</i>.)

Improving the print quality

Examples of poor print quality	Recommendation
 <p>Faint</p>	<ul style="list-style-type: none"> ■ Check the machine's environment. Conditions such as humidity, high temperatures, and so on, may cause this print fault. (See <i>Choosing a location</i> on page 33.) ■ If the whole page is too light, Toner Save mode may be on. Turn off Toner Save mode in the machine's menu settings or in the printer Properties of the driver. (See <i>Toner save</i> on page 17 or <i>Advanced tab in the Software User's Guide on the CD-ROM</i>.) <p>If this problem occurs when making copies, turn off Toner Save mode in the machine's menu setting. (See <i>Toner save</i> on page 17.)</p> <ul style="list-style-type: none"> ■ Clean the scanner window and the primary corona wire of the drum unit. (See <i>Cleaning the laser scanner window</i> on page 58 and <i>Cleaning the corona wire</i> on page 60.) If the print quality has not improved, put in a new drum unit. (See <i>Replacing the drum unit (DR-3150)</i> on page 65.) ■ Put in a new toner cartridge. (See <i>Replacing the toner cartridge (TN-3135/TN-3175)</i> on page 62.)
 <p>Grey background</p>	<ul style="list-style-type: none"> ■ Make sure that you use paper that meets our specifications. (See <i>Acceptable paper and other media</i> on page 9.) ■ Check the machine's environment. Conditions such as high temperatures and high humidity can increase the amount of background shading. (See <i>Choosing a location</i> on page 33.) <p>Install a new toner cartridge. (See <i>Replacing the toner cartridge (TN-3135/TN-3175)</i> on page 62.)</p> <ul style="list-style-type: none"> ■ Clean the primary corona wire and the drum unit. (See <i>Cleaning the corona wire</i> on page 60 and <i>Cleaning the drum unit</i> on page 61.) If the print quality has not improved, put in a new drum unit. (See <i>Replacing the drum unit (DR-3150)</i> on page 65.)
 <p>Ghost</p>	<ul style="list-style-type: none"> ■ Make sure that you use paper that meets our specifications. Rough-surfaced paper or thick paper may cause this problem. ■ Make sure that you choose the correct media type in the printer driver or in the machine's Paper Type menu setting. (See <i>Acceptable paper and other media</i> on page 9 and <i>Basic tab in the Software User's Guide on the CD-ROM</i>.) ■ Put in a new drum unit. (See <i>Replacing the drum unit (DR-3150)</i> on page 65.)
 <p>Toner specks</p>	<ul style="list-style-type: none"> ■ Make sure that you use paper that meets our specifications. Rough-surfaced paper may cause the problem. (See <i>Acceptable paper and other media</i> on page 9.) ■ Clean the primary corona wire and the drum unit. (See <i>Cleaning the corona wire</i> on page 60 and <i>Cleaning the drum unit</i> on page 61.) If the print quality has not improved, put in a new drum unit. (See <i>Replacing the drum unit (DR-3150)</i> on page 65.)

Examples of poor print quality	Recommendation
 <p data-bbox="208 479 351 508">Hollow print</p>	<ul style="list-style-type: none"> <li data-bbox="477 291 1222 343">■ Make sure that you use paper that meets our specifications. (See <i>Acceptable paper and other media</i> on page 9.) <li data-bbox="477 355 1222 459">■ Choose Thick paper mode in the printer driver or in the machine's Paper Type menu setting, or use thinner paper than you are currently using. (See <i>Paper Type</i> on page 15 and <i>Basic tab in the Software User's Guide on the CD-ROM.</i>) <li data-bbox="477 471 1222 523">■ Check the machine's environment. Conditions such as high humidity can cause hollow print. (See <i>Choosing a location</i> on page 33.) <li data-bbox="477 535 1222 614">■ Clean the primary corona wire on the drum unit. (See <i>Cleaning the corona wire</i> on page 60.) If the print quality has not improved, put in a new drum unit. (See <i>Replacing the drum unit (DR-3150)</i> on page 65.)
 <p data-bbox="227 817 330 846">All black</p>	<ul style="list-style-type: none"> <li data-bbox="477 625 1222 678">■ Clean the primary corona wire on the drum unit. (See <i>Cleaning the corona wire</i> on page 60.) <li data-bbox="477 689 1222 741">■ The drum unit may be damaged. Put in a new drum unit. (See <i>Replacing the drum unit (DR-3150)</i> on page 65.)
 <p data-bbox="128 1068 430 1155">White Spots on black text and graphics at 94mm (3.7 in.) intervals</p>  <p data-bbox="113 1363 443 1416">Black Spots at 94 mm (3.7 in.) intervals</p>	<p data-bbox="463 857 1222 937">Dust, paper powder, glue, or other substances may stick to the surface of the photosensitive drum (OPC) and cause black or white spots to appear on printed documents.</p> <p data-bbox="463 948 1222 1000">Make a few copies of a blank, white sheet of paper. (See <i>Making multiple copies</i> on page 23.)</p> <p data-bbox="463 1012 1222 1064">If you still see the spots on printed documents after making multiple copies, clean the drum unit (see <i>Cleaning the drum unit</i> on page 61).</p> <p data-bbox="463 1076 1222 1128">If the print quality still has not improved you need to install a new drum. (See <i>Replacing the drum unit (DR-3150)</i> on page 65.)</p>
 <p data-bbox="113 1626 443 1686">Black toner marks across the page</p>	<ul style="list-style-type: none"> <li data-bbox="477 1431 1222 1483">■ Make sure that you use paper that meets our specifications. (See <i>Acceptable paper and other media</i> on page 9.) <li data-bbox="477 1495 1222 1574">■ If you use label sheets for laser printers, the glue from the sheets may sometimes stick to the OPC drum surface. Clean the drum unit. (See <i>Cleaning the drum unit</i> on page 61.) <li data-bbox="477 1586 1222 1638">■ Do not use paper that has clips or staples because they will scratch the surface of the drum. <li data-bbox="477 1649 1222 1702">■ If the unpacked drum unit is in direct sunlight or room light, the unit may be damaged. <li data-bbox="477 1713 1222 1750">■ The drum unit may be damaged. Put in a new drum unit. (See <i>Replacing the drum unit (DR-3150)</i> on page 65.)

Examples of poor print quality	Recommendation
 <p>White lines across the page</p>	<ul style="list-style-type: none"> ■ Make sure that you use paper that meets our specifications. A rough surfaced paper or thick print media can cause the problem. (See <i>Acceptable paper and other media</i> on page 9.) ■ Make sure that you choose the proper media type in the printer driver or in the machine's Paper Type menu setting. (See <i>Acceptable paper and other media</i> on page 9 and <i>Basic tab in the Software User's Guide on the CD-ROM</i>.) ■ 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. ■ Clean the scanner window with a soft cloth. (See <i>Cleaning the laser scanner window</i> on page 58.) ■ The drum unit may be damaged. Put in a new drum unit. (See <i>Replacing the drum unit (DR-3150)</i> on page 65.)
 <p>Lines across the page</p>	<ul style="list-style-type: none"> ■ Clean the primary corona wire in the drum unit. (See <i>Cleaning the corona wire</i> on page 60.) ■ Clean the scanner window with a soft cloth. (See <i>Cleaning the laser scanner window</i> on page 58.) ■ The drum unit may be damaged. Put in a new drum unit. (See <i>Replacing the drum unit (DR-3150)</i> on page 65.)
 <p>Black lines down the page</p> <p>Printed pages have toner stains or stripes down the page.</p>	<ul style="list-style-type: none"> ■ Clean the primary corona wire of the drum unit. (See <i>Cleaning the corona wire</i> on page 60.) ■ Make sure the primary corona wire's blue tab is at the home position (▲). ■ The drum unit may be damaged. Put in a new drum unit. (See <i>Replacing the drum unit (DR-3150)</i> on page 65.) ■ The toner cartridge may be damaged. Put in a new toner cartridge. (See <i>Replacing the toner cartridge (TN-3135/TN-3175)</i> on page 62.) ■ The fuser unit may be smudged. Call Brother or your dealer for service.
 <p>White lines down the page</p>	<ul style="list-style-type: none"> ■ Clean the laser scanner window with a soft cloth. (See <i>Cleaning the laser scanner window</i> on page 58.) ■ The toner cartridge may be damaged. Put in a new toner cartridge. (See <i>Replacing the toner cartridge (TN-3135/TN-3175)</i> on page 62.)
 <p>Page skewed</p>	<ul style="list-style-type: none"> ■ Make sure the paper or other print media is loaded properly in the paper tray and that the guides are not too tight or too loose against the paper stack. ■ Set the paper guides correctly. ■ If you are using the MP tray, see <i>Loading envelopes and other media</i> on page 13. ■ The paper tray may be too full. ■ Check the paper type and quality. (See <i>Acceptable paper and other media</i> on page 9.)

Examples of poor print quality	Recommendation
 <p>Curled or wave</p>	<ul style="list-style-type: none"> ■ Check the paper type and quality. High temperatures and high humidity will cause paper to curl. ■ 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.
 <p>Wrinkles or creases</p>	<ul style="list-style-type: none"> ■ Make sure that paper is loaded properly. ■ Check the paper type and quality. (See <i>Acceptable paper and other media</i> on page 9.) ■ Turn over the stack of paper in the tray or rotate the paper 180° in the input tray.
 <p>Envelope creases</p>	<ol style="list-style-type: none"> 1 Open the back cover. 2 Press against the "1" on the blue levers on either side of the machine as shown below. 3 As the top of the lever rotates backward lift the bottom portion of the lever from below until it stops. 4 Close the back cover and resend the print job.  <p>Note When you have finished printing, open the back cover and reset the two blue levers back to their original position.</p>
 <p>Poor fixing</p>	<ul style="list-style-type: none"> ■ Open the back cover and make sure that the two blue levers on the left and right hand sides are in the down position. 

Error messages

As with any sophisticated office product, errors may occur. If this happens, your machine will identify the problem and display an error message. The most common error messages are shown below.

Error Message	Cause	Action
Check Paper Size	Paper is not the correct size.	Load the correct size of paper (A4, Letter, Legal or Folio) and then set the Paper Size (Menu, 1, 2). (See <i>Paper Size</i> on page 15.) Then, set the Tray Use for copying and printing (Menu, 1, 5, 1 or Menu, 1, 5, 2). (See <i>Tray use in Copy mode</i> on page 16 and <i>Tray use in Print mode</i> on page 16.)
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 <i>Cooling Down, and Wait for a while</i> .	<p>Make sure that you can hear the fan in the machine spinning and that the exhaust outlet isn't blocked by something.</p> <p>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.</p> <p>If the fan is not spinning follow the suggestions below.</p> <p>Turn off the machine's power switch and then turn it on again. If the error message continues leave the machine for several minutes and then try it again.</p>
Cover is Open	The front cover is not closed completely.	Close the front cover of the machine.
	The fuser cover is not closed completely or the paper is jammed at the fuser unit.	Open the back cover, and then open the fuser cover. Remove jammed paper if there is any, and then close the fuser cover and the back cover.
Document Jam	The document was not inserted or fed properly, or the document scanned from the ADF was too long.	See <i>Document jams</i> on page 52 or <i>Using the ADF</i> on page 8.
Drum Near End	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 <i>Replacing the drum unit (DR-3150)</i> on page 65.
	The drum counter was not reset when a new drum was installed.	<ol style="list-style-type: none"> 1. Open the front cover, and then press Clear/Back. 2. Press 1 to reset.
Dust On Drum	The primary corona wire on the drum unit needs to be cleaned.	Clean the primary corona wire on the drum unit. (See <i>Cleaning the corona wire</i> on page 60.)

Error Message	Cause	Action
Fuser Error	The temperature of the fuser unit does not rise at a specified temperature within a 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.	
No Paper	The machine is out of paper or paper is not properly loaded in the paper tray.	Do one of the following: <ul style="list-style-type: none"> ■ Refill the paper in the paper tray or MP tray. ■ Remove the paper and load it again.
No Tray	The paper tray is not completely closed.	Close the paper tray properly.
Out of Memory	The machine's memory is full.	<p>Copy operation in progress</p> <p>Do one of the following:</p> <ul style="list-style-type: none"> ■ Press Start to copy the scanned pages. ■ Press Stop/Exit and wait until the other operations in progress finish, and then try again. <p>Printing operation in process</p> <p>Do one of the following:</p> <ul style="list-style-type: none"> ■ Reduce print resolution. (See <i>Advanced tab in the Software User's Guide on the CD-ROM.</i>) ■ Turn on the Page Protection function. (See <i>Device Options in the Software User's Guide on the CD-ROM.</i>) ■ Clear the data from the memory by pressing Job Cancel.
Paper Jam Back	The paper is jammed in the back of the machine.	(See <i>Paper jams</i> on page 53.)
Paper Jam Inside	The paper is jammed inside the machine.	(See <i>Paper jams</i> on page 53.)
Paper Jam MPTray	The paper is jammed in the MP tray of the machine.	(See <i>Paper jams</i> on page 53.)
Paper Jam Tray1 Paper Jam Tray2	The paper is jammed in the paper tray of the machine.	(See <i>Paper jams</i> on page 53.)
Replace Fuser	It is time to replace the fuser unit.	Call Brother Customer Service to replace the fuser unit.
Replace Laser	It is time to replace the laser unit.	Call Brother Customer Service to replace the laser unit.
Replace PF Kit1	It is time to replace the paper feeding kit for Tray 1.	Call Brother Customer Service to replace the PF Kit 1.
Replace PF Kit2	It is time to replace the paper feeding kit for Tray 2.	Call Brother Customer Service to replace the PF Kit 2.

Error Message	Cause	Action
Replace PF KitMP	It is time to replace the paper feeding kit for the MP tray.	Call Brother Customer Service to replace the PF Kit MP.
Scanner Locked	The scanner glass's sensor does not move to the home position.	Open the document cover, then release the scanner lock lever, and press Stop/Exit .
Toner Error	The toner cartridge and drum unit assembly is not installed properly.	Reinstall the toner cartridge.
Toner Life End	The toner cartridge and drum unit assembly is not installed properly, or the toner cartridge is used up and printing is not possible.	Do one of the following: <ul style="list-style-type: none"> ■ Re-install the toner cartridge and drum unit assembly. ■ Replace the toner cartridge with a new one. (See <i>Replacing the toner cartridge (TN-3135/TN-3175)</i> on page 62.)
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 run out.	Order a new toner cartridge now.
Too Many Trays	More than one optional tray is installed.	The maximum number of optional trays is one. Remove any additional trays.
Unable to Init. (Initialize) Unable to Print	The machine has a mechanical problem.	Turn off the machine's power switch and then turn it on again. If the error message continues leave the machine for several minutes before you try to print, copy or scan again.
Unable to Scan	The machine has a mechanical problem.	Turn off the machine's power switch and then turn it on again. If the error message continues leave the machine for several minutes and then try it again.



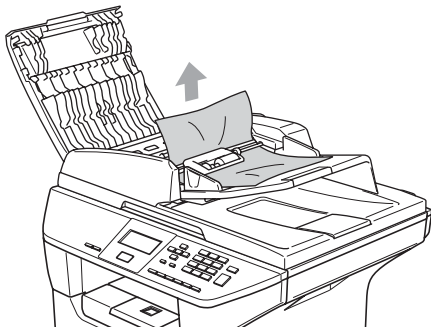
Document jams

If the document is jammed, follow the steps below.

Document is jammed in the top of the ADF unit

The document may get jammed if it is not inserted or fed properly, or if it is too long. Follow the steps below to clear a document jam.

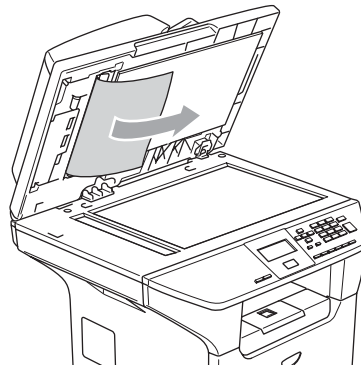
- 1 Take out any paper from the ADF that is not jammed.
- 2 Open the ADF cover.
- 3 Pull the jammed document out to the left.



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

Document is jammed inside the ADF unit

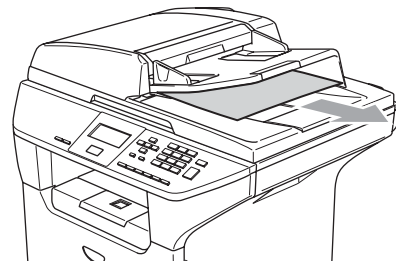
- 1 Take out any paper from the ADF that is not jammed.
- 2 Lift the document cover.
- 3 Pull the jammed document out to the right.



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

Document is jammed at the output tray

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



- 3 Press **Stop/Exit**.

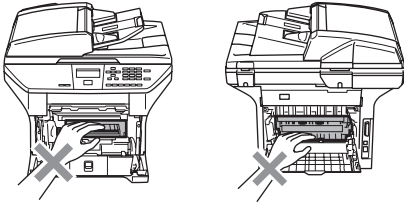
Paper jams

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



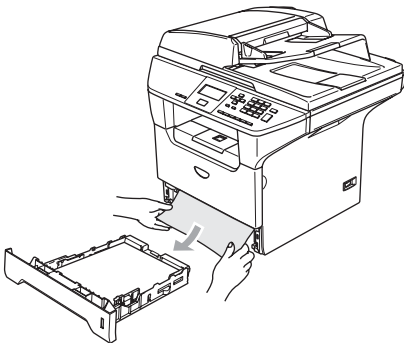
HOT SURFACE

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 illustration.

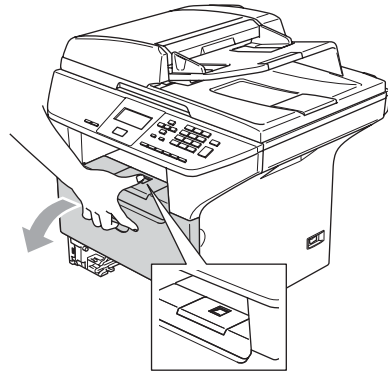


Paper is jammed inside the machine

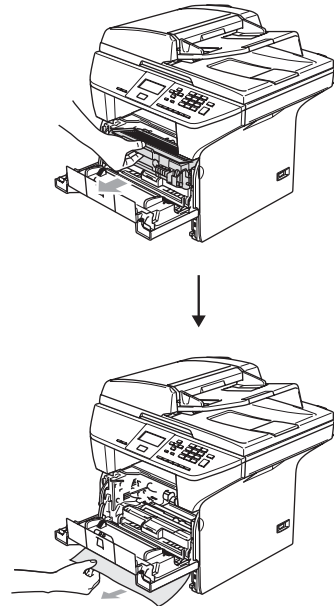
- 1 Pull the paper tray completely out of the machine.
- 2 Use both hands to slowly pull out the jammed paper.



- 3 Press the cover release lever to open the front cover.

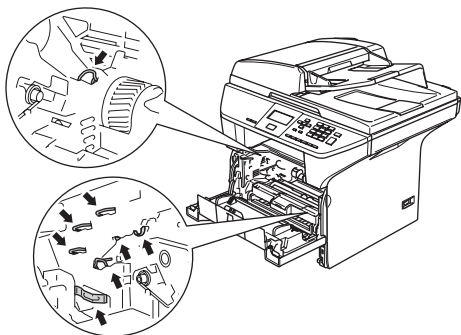


- 4 Slowly take out the drum unit and toner cartridge assembly. The jammed paper may be pulled out with the toner cartridge and drum unit assembly, or this may release the paper so you can pull it out of the paper tray opening.

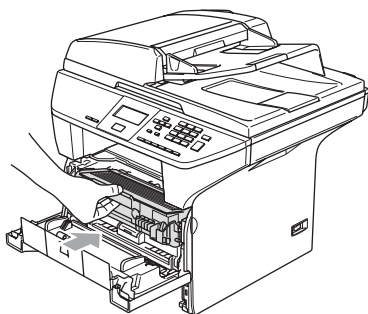


! CAUTION

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



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

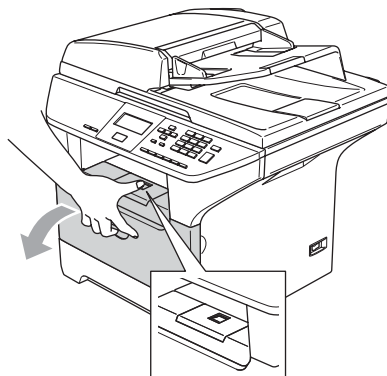


- 6** Close the front cover.

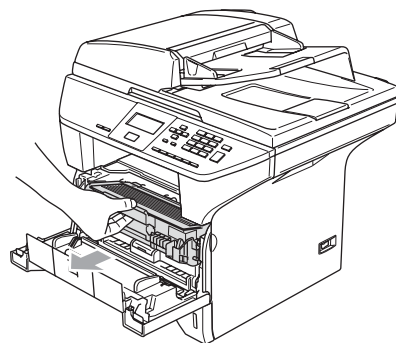
- 7** Put the paper tray firmly back in the machine.

Paper is jammed at the back of the machine

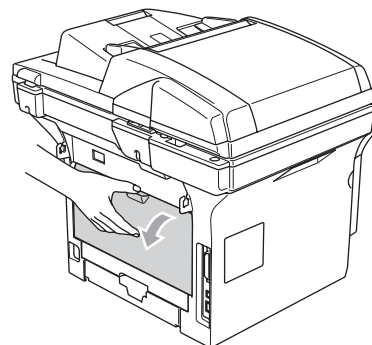
- 1** Press the cover release lever to open the front cover.



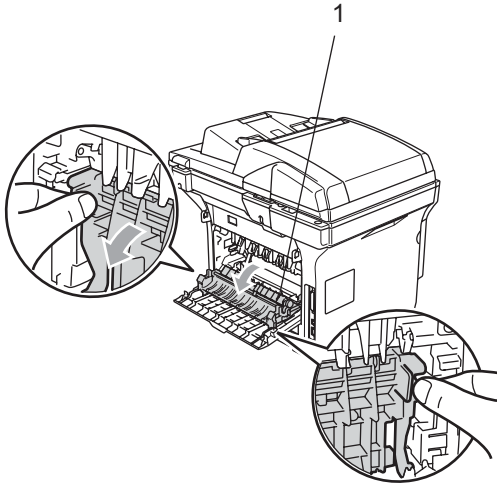
- 2** Take out the drum unit and toner cartridge assembly.



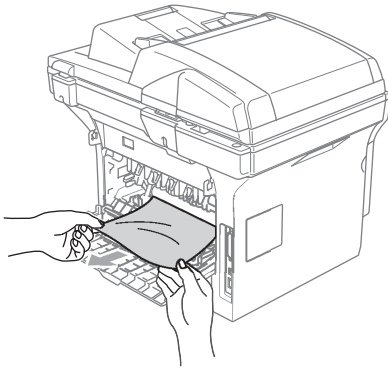
- 3** Open the back cover.



- 4 Pull the tabs at the left and right hand sides toward you to open the fuser cover (1).

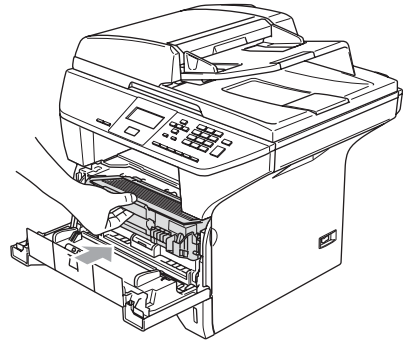


- 5 Using both hands, gently pull the jammed paper out of the fuser unit.



- 6 Close the back cover.

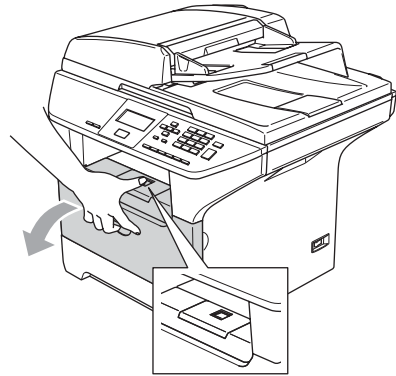
- 7 Put the drum unit and toner cartridge assembly back in the machine.



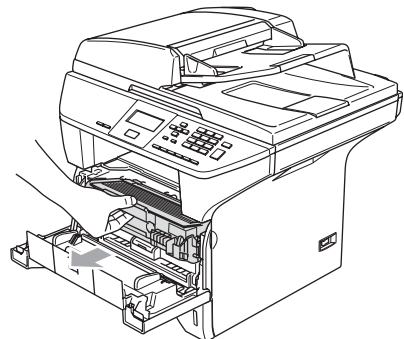
- 8 Close the front cover.

Paper is jammed inside the drum unit and toner cartridge assembly

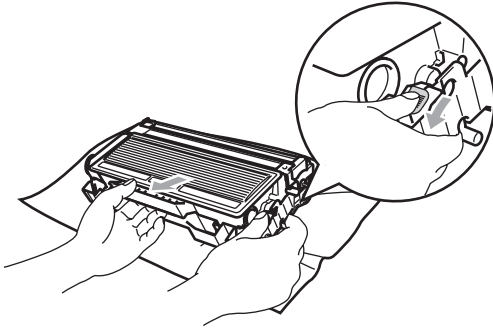
- 1 Press the cover release lever to open the front cover.



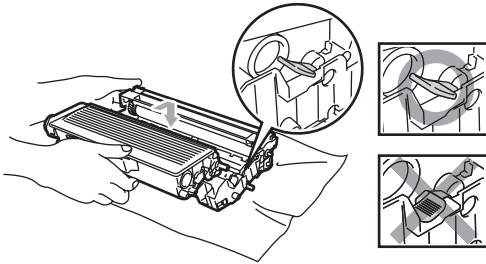
- 2 Take out the drum unit and toner cartridge assembly.



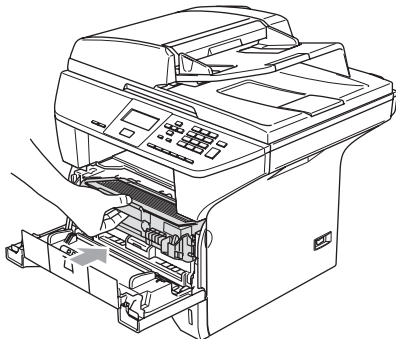
- 3 Hold down the lock lever on the right and take the toner cartridge out of the drum unit.
Take out the jammed paper if there is any inside the drum unit.



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



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



- 6 Close the front cover.

Routine maintenance

! 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

! CAUTION

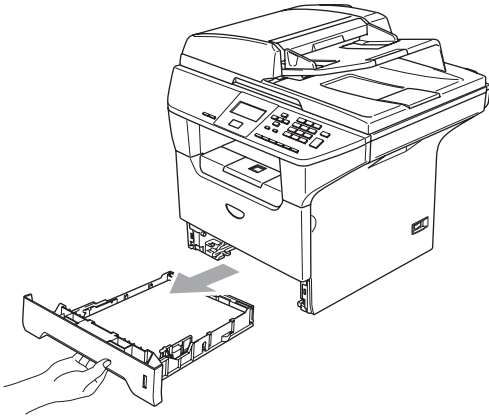
Use neutral detergents. Cleaning with volatile liquids such as thinner or benzene will damage the outside surface of the machine.

DO NOT use cleaning materials that contain ammonia.

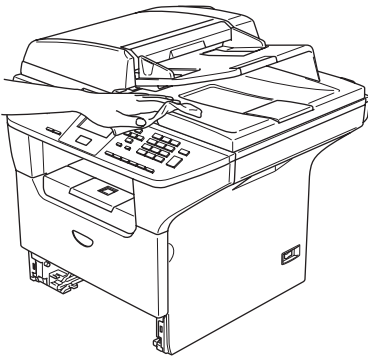
DO NOT use isopropyl alcohol to remove dirt from the control panel. It may crack the panel.

Clean the outside of the machine as follows:

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

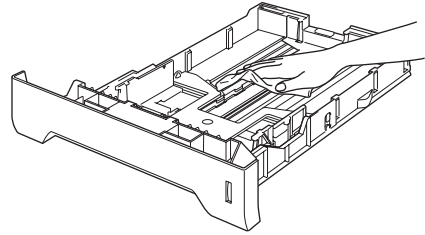


- 2 Wipe the outside of the machine with a soft cloth to remove dust.



- 3 Remove anything that is stuck inside the paper tray.

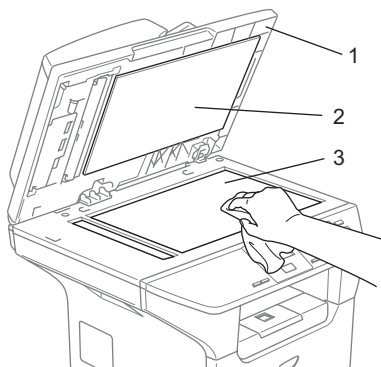
- 4 Wipe the inside of the paper tray with a soft cloth to remove dust.



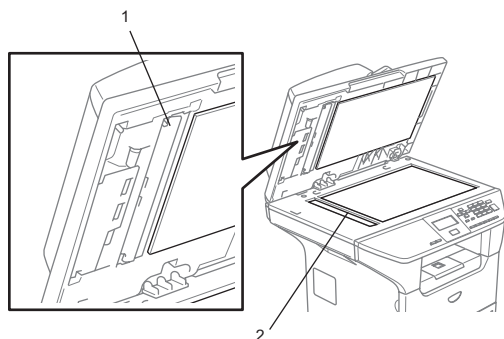
- 5 Re-load the paper and put the paper tray firmly back in the machine.

Cleaning the scanner glass

- 1 Turn off the machine's power switch.
- 2 Lift the document cover (1). Clean the white plastic surface (2) and scanner glass (3) underneath it with isopropyl alcohol on a soft lint-free cloth.



- 3 In the ADF unit, clean the white plastic bar (1) and the scanner glass strip (2) under it with isopropyl alcohol on a lint-free cloth.



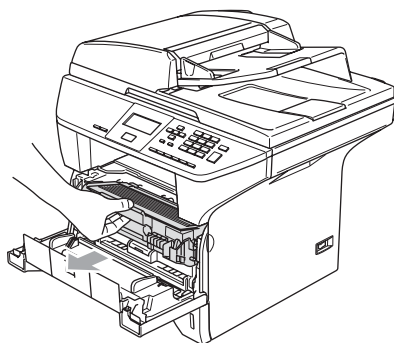
Cleaning the laser scanner window

! CAUTION

DO NOT use isopropyl alcohol to clean the laser scanner window.

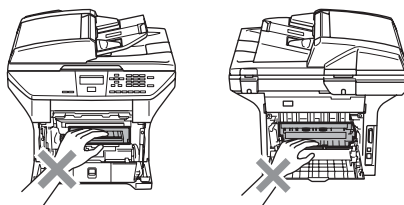
DO NOT touch the laser scanner window with your fingers.

- 1 Turn off the machine's power switch. Unplug the power cord from the electrical socket.
- 2 Open the front cover and take out the drum unit and toner cartridge assembly.



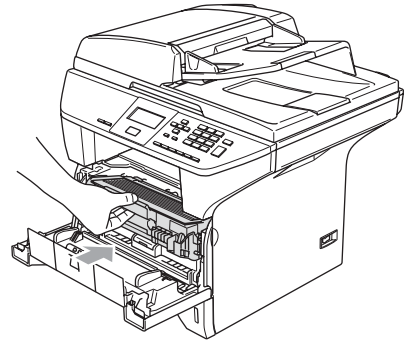
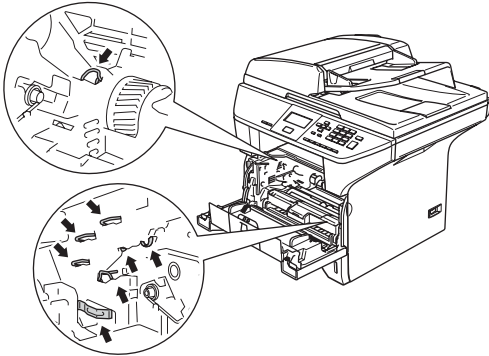
! HOT SURFACE

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

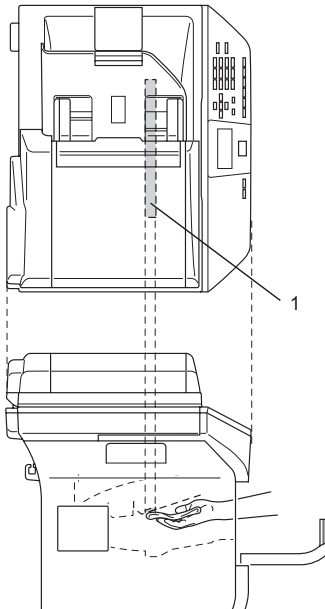


! CAUTION

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



- 3 Gently clean the laser scanner window (1) by wiping it with a clean soft, dry lint-free cloth. Do not use isopropyl alcohol.



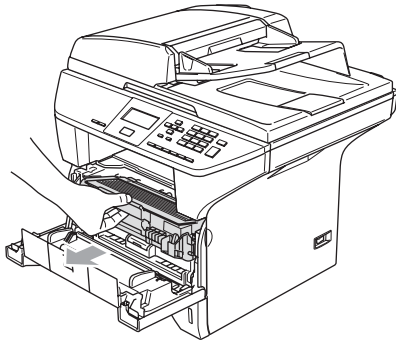
- 4 Put the drum unit and toner cartridge assembly back into the machine.

- 5 Close the front cover.
- 6 Plug the machine's power cord back into the electrical socket. Turn on the machine's power switch.

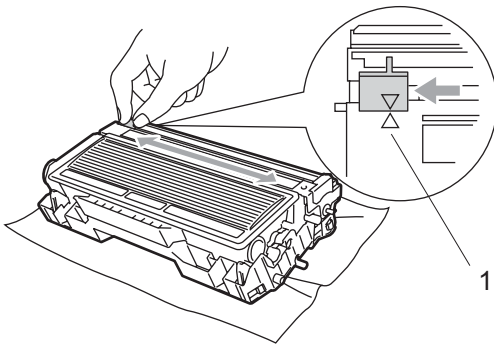
Cleaning the corona wire

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

- 1 Open the front cover and take out the drum unit and toner cartridge assembly.



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



- 3 Return the blue tab and snap it into the home position (▼).

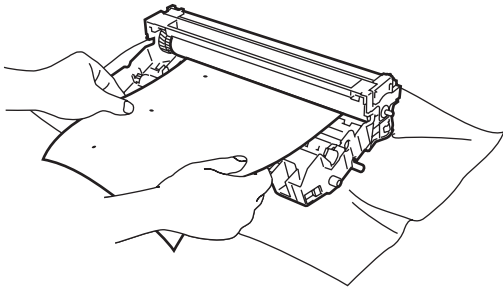
! CAUTION

If you do not return the blue tab to the home position (▼), your printed pages may have vertical black stripes on them.

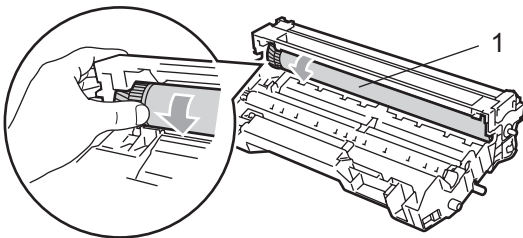
- 4 Put the drum unit and toner cartridge assembly back in the machine.
- 5 Close the front cover.

Cleaning the drum unit

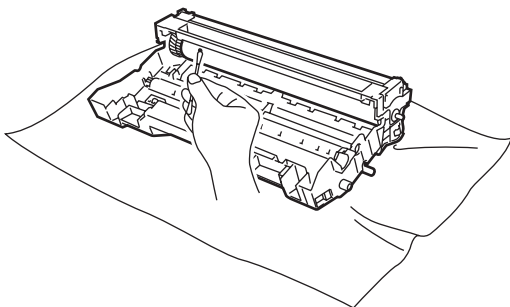
- 1 Take out the drum unit and toner cartridge assembly, and then take out the toner cartridge from the drum unit.
- 2 Put the print sample in front of the drum unit, and find the exact position of the poor print.



- 3 Turn the white gear on the drum as you check the surface of the OPC drum (1).



- 4 When you find the substance on the drum surface that matches the print sample, gently dab the surface of the OPC drum with a cotton swab that is lightly dampened with isopropyl alcohol.



! CAUTION

The OPC drum is photosensitive so do not touch it with your fingers.

Do not use a scrubbing or wiping motion because this might damage the drum.

DO NOT clean the surface of the OPC drum with a sharp object, such as a ball-point pen, because this might cause permanent damage to the drum unit.

Replacing the toner cartridge (TN-3135/TN-3175)

The TN-3175 toner cartridge can print approximately 7,000 pages using a high yield toner cartridge. When the toner cartridge is running low, the LCD shows **Toner Low**. The machine is supplied with a standard TN-3135 toner cartridge that must be replaced after approximately 3,500 pages. Actual page count will vary depending on your average type of document (i.e., standard letter, detailed graphics).



Note

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

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

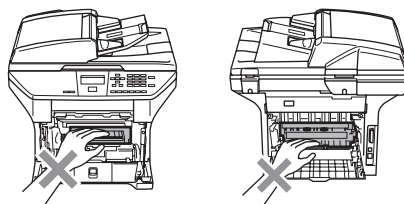
We recommend that you clean the machine and corona wire of the drum unit when you replace the toner cartridge. (See *Cleaning the laser scanner window* on page 58 and *Cleaning the corona wire* on page 60.)

Replacing the toner cartridge

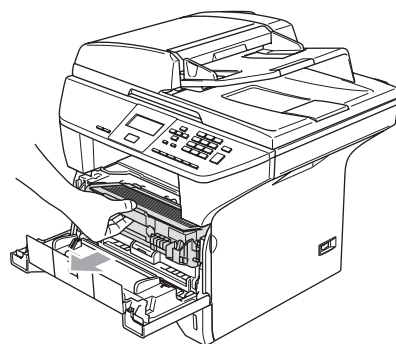


HOT SURFACE

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 illustration.

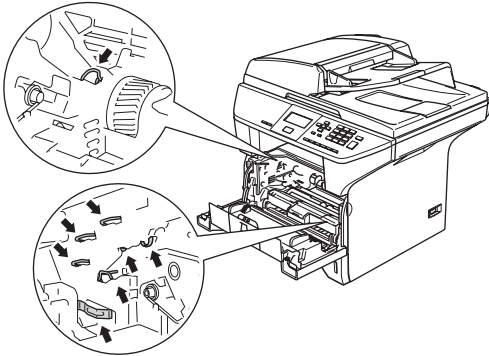


- 1 Open the front cover and take out the drum unit and toner cartridge assembly.

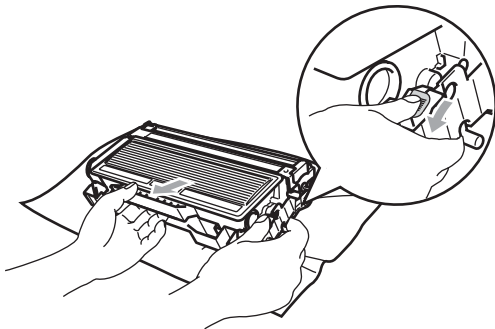


! CAUTION

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



- 2 Hold down the lock lever on the right and take the toner cartridge out of the drum unit.



! WARNING

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

! CAUTION

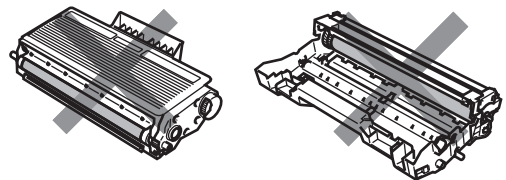
Put the drum unit on a drop cloth or large piece of disposable paper to avoid spilling and scattering the toner.

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

! CAUTION

Brother printers are designed to work with toner of a particular specification and work to a level of optimum performance when used with genuine Brother toner cartridges (**TN-3135/TN-3175**). Brother cannot guarantee this optimum performance if toner or toner cartridges of other specifications are used. Brother does not therefore recommend the use of cartridges other than Brother cartridges with this printer, 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.

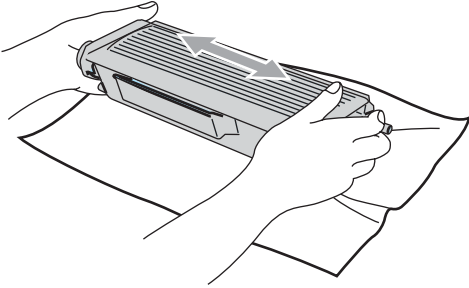
Unpack the toner cartridge just before you put it in the machine. If a toner cartridge is left unpacked for a long time, the toner life will be shortened.



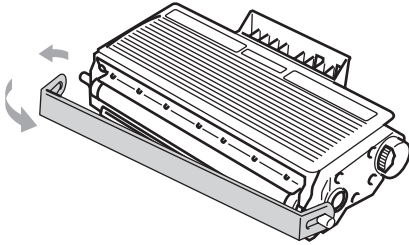
DO NOT touch the shaded parts shown in the illustrations to prevent any degradation to the print quality.

3 Unpack the new toner cartridge. Put the used toner cartridge into the aluminium bag and discard it according to local regulations.

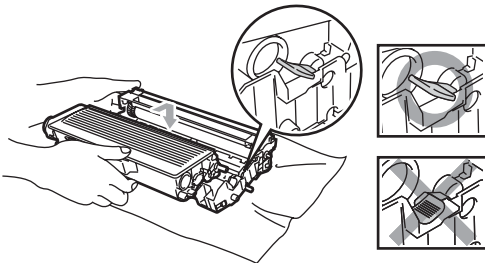
4 Gently rock the toner cartridge from side to side five or six times to spread the toner evenly inside the cartridge.



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 properly, the lock lever will lift automatically.



7 Clean the primary corona wire inside the drum unit by gently sliding the blue tab from left to right and right to left several times. Be sure to return the blue tab to the home position (▼).

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

9 Close the front cover.

Replacing the drum unit (DR-3150)

The machine uses a drum unit to create print images on paper. If the LCD shows `Drum Near End`, 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 Near End`, 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 Near End` 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 58.)

! 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.

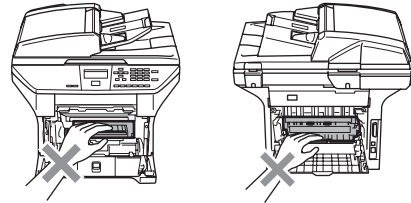
Note

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 25,000 pages. The actual number of pages your drum will print may be significantly less than these estimates. 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.

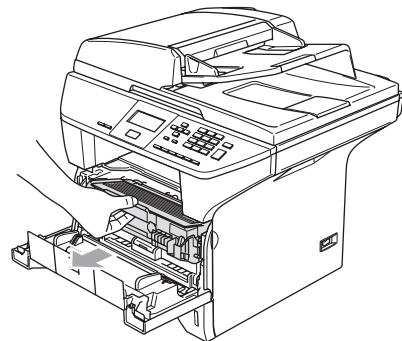


HOT SURFACE

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 illustration.

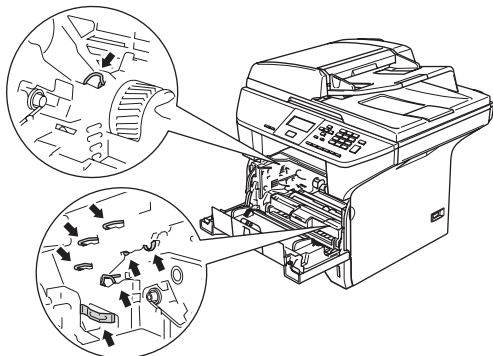


- 1 Open the front cover and take out the drum unit and toner cartridge assembly.

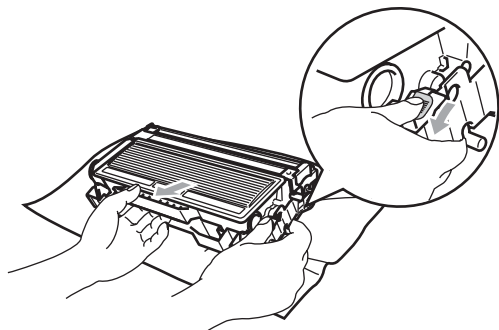


! CAUTION

To prevent damage to the printer from static electricity, **DO NOT** touch the electrodes shown in the illustration.



- 2 Hold down the lock lever on the right and take the toner cartridge out of the drum unit.



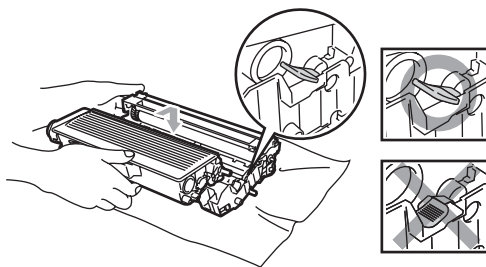
Note

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

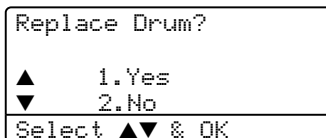
! CAUTION

Unpack the drum unit just before you put it in the machine. Put the old drum unit into the plastic bag.

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



- 5 Put the drum unit and toner cartridge assembly back in the machine. Do not close the front cover.
6 Press **Clear/Back**.



To confirm you are installing a new drum, press 1.

- 7 When the LCD shows *Accepted*, close the front cover.

! CAUTION

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

Replacing periodic maintenance parts

The periodic maintenance parts will need to be replaced regularly to maintain print quality. The parts listed below will have to be replaced after printing approximately 25,000 pages for the paper feeding kit for MP tray and 100,000 pages for the other parts. Please call your Brother dealer for service when the following messages appear on the LCD.

LCD message	Description
Replace PF KitMP	Replace paper feeding kit for MP tray.
Replace PF Kit1	Replace paper feeding kit for Tray 1.
Replace PF Kit2	Replace paper feeding kit for Tray 2.
Replace Fuser	Replace fuser unit.
Replace Laser	Replace laser unit.

How to change the LCD language

You can change the LCD language.

- 1 Press **Menu**, **1**, **0**.

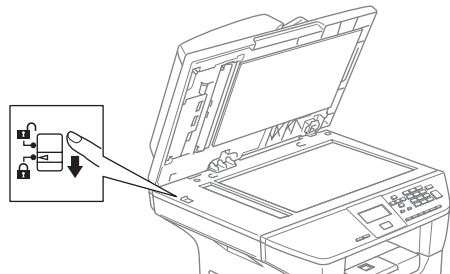


- 2 Press **▲** or **▼** to select your language. Press **OK**.
- 3 Press **Stop/Exit**.

Packing and shipping the machine

When you transport the machine, use the packing materials that came with your machine. If you do not pack the machine properly, you could void your warranty. The machine should be adequately insured with the carrier.

- 1 Turn off the machine's power switch.
- 2 Unplug all the cables and AC power cord from the machine.
- 3 Push the Scanner Lock Lever down to lock the scanner. This lever is located on the left of the scanner glass.

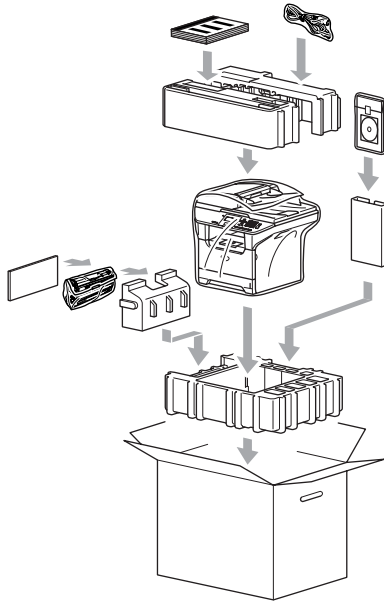


! CAUTION

Damage caused to your machine by failure to lock the scanner before packing and shipping may void your warranty.

- 4 Open the front cover.
- 5 Take out the drum unit and toner cartridge assembly. Leave the toner cartridge installed in the drum unit.
- 6 Put the drum unit and toner cartridge assembly into the plastic bag and seal the bag.
- 7 Close the front cover.

- 8 Wrap the machine in the plastic bag and put it in the original carton with the original packing material.
- 9 Pack the drum unit and toner cartridge assembly, AC power cord and printed materials in the original carton as shown below.



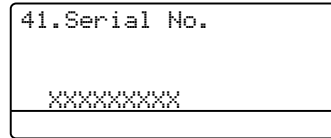
- 10 Close the carton and tape it shut.

Machine Information

Checking the serial number

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

- 1 Press **Menu, 4, 1**.

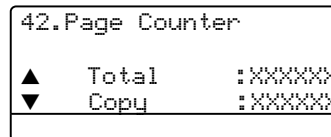


- 2 Press **Stop/Exit**.

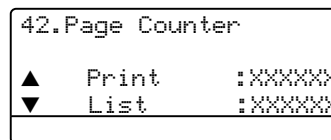
Checking the page counters

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

- 1 Press **Menu, 4, 2**.
The LCD shows number of pages for **Total** and **Copy**.



- 2 Press **▲** or **▼** to see **Print** or **List**.



- 3 Press **Stop/Exit**.

Checking remaining life of parts

You can view the remaining life of maintenance parts on the LCD.

- 1 Press **Menu**, **4**, **3**.

```
43.Parts Life
 1.Drum
 2.Fuser
 3.Laser
-----
Select ▲▼ & OK
```

- 2 Press **▲** or **▼** to select 1.Drum, 2.Fuser, 3.Laser, 4.PF Kit MP, 5.PF Kit 1 or 6.PF Kit 2. Press **OK**.

```
43.Parts Life
 1.Drum
-----
Remaining:100%
```



Note

The life check of a part will be accurate only if you have reset that part's life counter when you installed a new part. It will not be accurate if you have reset that part's life counter during the life of a used part.

D

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 instructions 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 72. These pages list the menu selections and options.

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

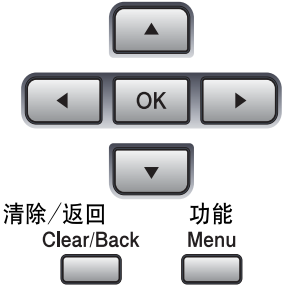






For example, to set **Beeper volume** to **Low**.

- 1 Press **Menu**, **1**, **3**.
- 2 Press **▲** or **▼** to choose **Low**.
- 3 Press **OK**.

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

	
功能 Menu 	Access the menu.
	Go to the next menu level. Accept an option.
清除/返回 Clear/Back 	Exit the menu by pressing repeatedly. Go back to the previous menu level.
	Scroll through the current menu level.
	Go back to the previous menu level or forward to the next menu level.
停止/退出 Stop/Exit 	Exit the menu.

To access the menu mode:

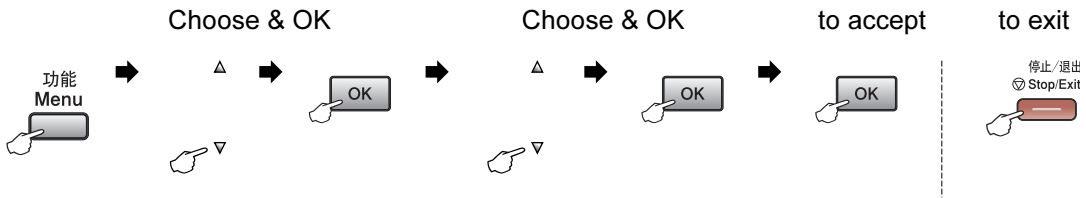
- 1 Press **Menu**.
- 2 Choose an option.
 - Press **1** for General Setup menu.
 - Press **2** for Copy menu.
 - Press **3** for Printer menu.
 - Press **4** for Machine Info menu.

You can also scroll through each menu level by pressing ▲ or ▼ for the direction you want.

- 3 Press **OK** when the option you want is highlighted 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 shows *Accepted*.

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	1. MP Tray	Thin Plain* Thick Thicker Transparency Recycled Paper	Sets the type of paper in the MP tray.	15
		2. Tray#1	Thin Plain* Thick Thicker Transparency Recycled Paper	Sets the type of paper in the paper tray.	15
		3. Tray#2 (This menu only appears if you have the optional tray #2)	Thin Plain* Thick Thicker Recycled Paper	Sets the type of paper in the optional paper tray #2.	15

Main Menu	Submenu	Menu Selections	Options	Descriptions	Page
1. General Setup (Continued)	2. Paper Size	1. MP Tray	A4* Letter Legal Executive A5 A6 B5 B6 Folio Any	Sets the size of the paper in the MP tray.	15
		2. Tray#1	A4* Letter Legal Executive A5 A6 B5 B6 Folio	Sets the size of the paper in the paper tray.	15
		3. Tray#2 (This menu only appears if you have the optional tray #2)	A4* Letter Legal Executive A5 B5 B6 Folio	Sets the size of the paper in the optional paper tray #2.	15
	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.	17
		2. Sleep Time	(0-99) 05 Min*	Conserves power.	17

Main Menu	Submenu	Menu Selections	Options	Descriptions	Page
1. General Setup (Continued)	5. Tray Use	1. Copy	Tray#1 Only Tray#2 Only MP Only MP>T1>T2* T1>T2>MP (Tray#2 and T2 appear only if you installed the optional paper tray.)	Selects the tray that will be used for Copy mode.	16
		2. Print	Tray#1 Only Tray#2 Only MP Only MP>T1>T2* T1>T2>MP (Tray#2 and T2 appear only if you installed the optional paper tray.)	Selects the tray that will be used for PCprint.	16
	6. LCD Contrast	—	-□□□□■+ -□□□■□+ -□□■□□+* -□■□□□+ -■□□□□+	Adjusts the contrast of the LCD.	18
	7. Function Lock	—	—	Can restrict selected machine operation for up to 25 individual users and all other non-authorized Public users.	19
	8. User Settings	—	—	You can print a list of your settings.	—
	0. Local Language	—	Depending on your country.	Allows you to change the LCD Language.	67

Main Menu	Submenu	Menu Selections	Options	Descriptions	Page
2.Copy	1.Quality	—	Auto* Text Photo	You can choose the Copy resolution for your type of document.	24
	2.FB Txt Quality	—	12000×600dpi 600dpi*	You can change to the higher Copy resolution when you make a text copy with 100% ratio using the scanner glass.	24
	3.Contrast	—	-□□□□■+ -□□□■□+ -□□■□□+* -□■□□□+ -■□□□□+	Adjusts the contrast for copies.	28
3.Printer	1.Emulation	—	Auto (EPSON)* Auto (IBM) HP LaserJet BR-Script 3 Epson FX-850 IBM Proprinter	Chooses the emulation mode.	See <i>Software User's Guide on the CD-ROM.</i>
	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.Reset Printer	—	1.Reset 2.Exit	Returns the PCL setting to the default settings.	
4.Machine Info.	1.Serial No.	—	—	You can check the serial number of your machine.	68
	2.Page Counter	—	Total Copy Print List	You can check the number of total pages the machine has printed during its life.	68
	3.Parts Life	1.Drum 2.Fuser 3.Laser 4.PF Kit MP 5.PF Kit 1 6.PF Kit 2	—	You can check the percentage of a machine part's life that remains available. PF Kit 2 appears only when the optional LT-5300 tray is installed.	69

Entering Text

When setting certain menu selections, you will need to type text characters. The dial pad keys have letters printed on keys. The keys: 0, # and ✖ do *not* have printed letters because they are used for special characters.

Press the appropriate dial pad key the required number of times to access the characters below:

Press Key	one time	two times	three times	four times
2	A	B	C	2
3	D	E	F	3
4	G	H	I	4
5	J	K	L	5
6	M	N	O	6
7	P	Q	R	S
8	T	U	V	8
9	W	X	Y	Z

Inserting spaces

To enter a space in a name, press ► twice between characters.

Making corrections

If you entered a letter incorrectly and want to change it, press ◀ to move the cursor under the incorrect character, and then press **Clear/Back**.

Repeating letters

To enter a character on the same key as the previous character, press ► to move the cursor right before pressing the key again.

Special characters and symbols

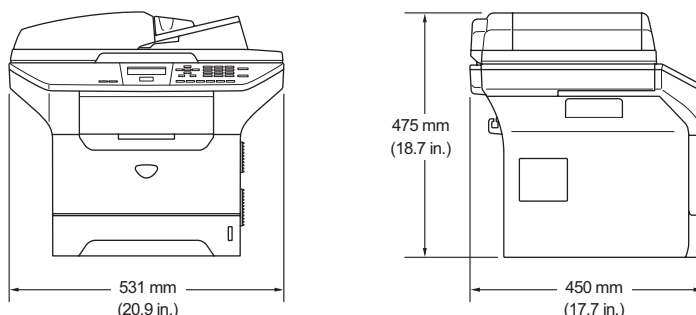
Press ✖, # or 0, then press ◀ or ► to move the cursor under the symbol or character you want. Press **OK** to select it.

Press ✖	for	(space) ! " # \$ % & ' () ✖ + , - . / €
Press #	for	; ; < = > ? @ [] ^ _
Press 0	for	Ä È Ö Ü À Ç È É 0

General

Memory Capacity	32 MB
ADF (automatic document feeder)	Up to 50 pages (Staggered) Recommended Environment: Temperature: 20 to 30°C (68°F to 86°F) Humidity: 50% - 70%
Paper Tray	Paper: Xerox Premier 80 g/m ² or Xerox Business 80 g/m ² 250 Sheets [80 g/m ² (20 lb)]
Printer Type	Laser
Print Method	Electrophotography by semiconductor laser beam scanning
LCD (liquid crystal display)	22 characters × 5 lines
Power Source	220 - 240V 50/60Hz
Power Consumption	Copying: Average 660 W Sleep: Average 15 W Standby: Average 85 W

Dimensions



Weight	Without Drum/Toner Unit: 16.1 kg (35.5 lb)
Noise level	Sound power Operating (Copying): LWAd = 7.0 Bell Standby: LWAd = 4.6 Bell Sound pressure Operating (Copying): LpAm = 55 dBA Standby: LpAm = 30 dBA
Temperature	Operating: 10 to 32.5°C (50°F to 90.5°F) Storage: 0 to 40°C (32°F to 104°F)
Humidity	Operating: 20 to 80% (without condensation) Storage: 10 to 90% (without condensation)

Print media

Paper Input

Paper Tray

- Paper type:
Plain paper, Bond Paper, Recycled paper or Transparencies
- Paper size:
A4, Letter, Executive, A5, A6, B5 and B6
- Paper Weight:
60 to 105 g/m² (16 to 28 lb)
- Maximum paper tray capacity: Up to 250 sheets of
80 g/m²(20 lb) plain paper or up to 10 transparencies

Multi-purpose tray (MP tray)

- Paper type:
Plain paper, Recycled paper, Transparencies, Envelopes,
Bond paper or Labels
- Paper size:
Width: 69.9 to 215.9 mm (2.75 to 8.5 in.)
Length: 116 to 406.4 mm (4.57 to 16 in.)
- Paper Weight:
60 to 161 g/m² (16 to 43 lb)
- Maximum paper tray capacity: Up to 50 sheets of 80 g/m²
(20 lb) plain paper

Paper Output

Up to 150 sheets (Face down print delivery to the output paper tray)

Copy

Colour/Monochrome	Monochrome
Single-Sided Document Size	ADF Width: 148.0 to 215.9 mm (5.8 to 8.5 in.) ADF Height: 148.0 to 355.6 mm (5.8 to 14 in.) Scanner Glass Width: Max. 215.9 mm (8.5 in.) Scanner Glass Height: Max. 355.6 mm (14 in.) Copy Width: Max. 211.3 mm (8.32 in.)
Multiple Copies	Stacks or Sorts up to 99 pages
Reduce/Enlarge	25% to 400% (in increments of 1%)
Resolution	UP to 1200 × 600 dpi ¹
First Copy Out Time	Approx. 10.5 seconds

¹ When making a copy from the scanner glass in text quality mode at the 100% ratio.

Scan

Colour/Monochrome	Yes
TWAIN Compliant	Yes (Windows® 98/98SE/Me/2000 Professional/XP/Windows NT® Workstation Version 4.0) Mac OS® X 10.2.4 or greater
WIA Compliant	Yes (Windows® XP)
Colour Depth	24 bit colour
Resolution	Up to 19200 × 19200 dpi (interpolated) ¹ Up to 600 × 2400 dpi (optical) ²
Single-Sided Document Size	ADF Width: 148.0 to 215.9 mm (5.8 to 8.5 in.) ADF Height: 148.0 to 355.6 mm (5.8 to 14 in.) Scanner Glass Width: Max. 215.9 mm (8.5 in.) Scanner Glass Height: Max. 355.6 mm (14 in.)
Scanning Width	Max. 212 mm (8.35 in.)
Grey Scale	256 levels

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

² When using the scanner glass

Print

Emulation	PCL6 BR-Script (PostScript) Level 3 IBM® Proprinter XL Epson® FX-850™
Printer Driver	Brother GDI (Graphic Device Interface) printer driver support for Windows® 98/98SE/Me/2000 Professional/XP/Windows NT® Workstation Version 4.0 Brother Laser Driver for Mac OS® X 10.2.4 or greater
Resolution	1200 dpi ¹ , HQ1200 (2400 × 600 dpi), 600 dpi, 300 dpi
Print Speed	Up to 28 pages/minute (A4 size) ²
First Print	Less than 8.5 seconds

¹ If you use the high quality 1200 dpi setting (1200 × 1200 dpi) the print speed will be slower.

² From standard paper tray and optional paper tray.

Interfaces

Parallel	A bi-directional shielded parallel cable that is IEEE 1284 compliant and no longer than 2.0 m (6 feet).
USB	A USB 2.0 interface cable that is not longer than 2.0 m (6 feet). ¹

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

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	98, 98SE	Printing, Scanning	Parallel, USB	Intel® Pentium® II or equivalent	32 MB	128 MB	90 MB	130 MB
	Me		Parallel, USB					
	NT® Workstation 4.0		Parallel		64 MB			
	2000 Professional		Parallel, USB	128 MB	256 MB	150 MB	220 MB	
	XP Home ¹ XP Professional ¹		Parallel, USB					
	XP Professional x64 bit Edition ¹		Parallel, USB	AMD Opteron™ AMD Athlon™ 64 Intel® Xeon™ with Intel® EM64T Intel® Pentium® 4 with Intel® EM64T	256 MB	512 MB	150 MB	220 MB
Apple® Macintosh® Operating System	OS X 10.2.4 or greater	Printing, Scanning ²	USB ³	All base models meet minimum requirements	128 MB	160 MB	80 MB	200 MB

¹ For WIA, 1200x1200 resolution. Brother Scanner Utility enables to enhance up to 19200 x 19200 dpi

² Dedicated "Scan to" key functions only in the Mac OS® X 10.2.4 or greater.

³ Third party USB ports are not supported.

Consumable items

Toner Cartridge Life

TN-3135: Standard Toner Cartridge: Approx. 3,500 pages¹

TN-3175: High-Yield Toner Cartridge: Approx. 7,000 pages¹

Drum Unit Life Expectancy

DR-3150: Approx. 25,000 pages

¹ When printing Letter or A4 size paper at 5% print coverage

F

Glossary

ADF (automatic document feeder)

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 print job and clear the printer memory.

Contrast

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

Gray scale

The shades of gray available for copying photographs.

LCD (liquid crystal display)

The display screen on the machine that shows interactive messages during On-Screen Programming.

Menu mode

Programming mode for changing your machine's settings.

OCR (optical character recognition)

The bundled Presto![®] PageManger[®] 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 select certain options for each copy without changing the default settings.

User Settings List

A printed report that shows the current settings of the machine.

A

ADF (automatic document feeder)	
using	8
ADF cover	52
Administrator password	19

C

Cleaning	
corona wire	60
drum unit	61
laser scanner window	58
scanner glass	58
Control	4
Control panel overview	2, 4
Copy	
Contrast key	28
Enlarge/Reduce key	25
keys	23
multiple	23
N in 1 key (page layout)	26
poster	26
Quality key	24
single	23
Sort (ADF only)	28
temporary settings	23
using ADF	23

D

Drum unit	
checking (remaining life)	69
cleaning	60, 61
replacing	65

E

Enlarge/Reduce key	25
Envelopes	11, 13
Error messages on LCD	
No Paper Fed	50
Out of Memory	50
Unable to Init.	51
Unable to Print	51
Unable to Scan	51

F

Folio	15
-------------	----

G

General	2
Gray scale	79

H

HELP	
LCD messages	70
using menu keys	70
Menu Table	70

J

Jams	
document	52
paper	52
Job Cancel key	5

L

Labels	11, 13
LCD	
contrast	18
LCD (liquid crystal display)	70

M

Maintenance, routine	56
replacing	
drum unit	65
toner cartridge	62
Memory	
adding DIMM (option)	40
installing	41
Memory Storage	70
Menu Table	70

O

Out of Memory message	29
-----------------------------	----

P

Packing and shipping the machine	67
Paper	9, 15, 78
how to load	12
size of document	8
Type	15
Poster	26
Power failure	70
Print	
drivers	80
paper jams	53
quality	45
resolution	80
specifications	80
Programming your machine	70

Q

Quality key (copying)	23
-----------------------	----

R

Reducing copies	25
Resolution	
copy	79
print	80
scan	79

S

Safety Instructions	37
Scanner glass, using	9
Secure Function Lock	19
Secure key	5
Security	
Secure Function Lock	19
Public user	20
restricted users	20
Shipping the machine	67
Sleep Time	17
Sort key	28
Status LED	6

T

Temporary copy settings	23
Text, entering	76
Toner cartridge	

replacing	62
Transparencies	11, 12
Tray Select key	29
Tray use, setting	
copy	16
print	16
Troubleshooting	42
document jam	52
if you are having difficulty	
paper handling	44
printing	42
paper jam	53

V

Volume, setting	
beeper	17

brother[®]

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.

ENG