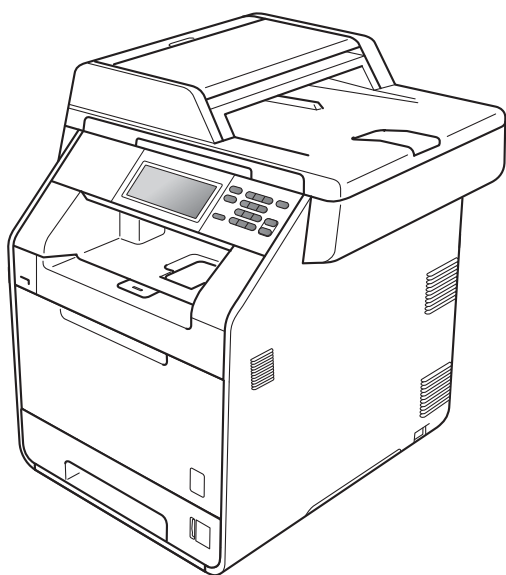


# BASIC USER'S GUIDE

DCP-9270CDN



## **If you need to call Customer Service**

**Please complete the following information for future reference:**

**Model Number:** DCP-9270CDN

**Serial Number:** <sup>1</sup> \_\_\_\_\_

**Date of Purchase:** \_\_\_\_\_

**Place of Purchase:** \_\_\_\_\_

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

**Register your product on-line at**

**<http://www.brother.com/registration/>**

# User's Guides and where do I find it?

Which manual?	What's in it?	Where is it?
<b>Safety and Legal</b>	Read this Guide first. Please read the Safety Instructions before you set up your machine. See this Guide for trademarks and legal limitations.	Printed / In the box
<b>Quick Setup Guide</b>	Follow the instructions for setting up your machine and installing the drivers and software for the operating system and connection type you are using.	Printed / In the box
<b>Basic User's Guide</b>	Learn the basic Copy, Scan and Direct Print operations and how to replace consumables. See troubleshooting tips.	PDF file / Documentation CD-ROM / In the box
<b>Advanced User's Guide</b>	Learn more advanced operations: Copy, security features, printing reports and performing routine maintenance.	PDF file / Documentation CD-ROM / In the box
<b>Software User's Guide</b>	Follow these instructions for Printing, Scanning, Network Scanning and using the Brother ControlCenter utility.	PDF file / Documentation CD-ROM / In the box
<b>Network Glossary</b>	This Guide provides basic information about advanced network features of Brother machines along with explanations about general networking and common terms.	PDF file / Documentation CD-ROM / In the box
<b>Network User's Guide</b>	This Guide provides useful information about wired and wireless network settings and security settings using the Brother machine. You can also find supported protocol information for your machine and detailed troubleshooting tips.	PDF file / Documentation CD-ROM / In the box

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## (ADVANCED USER'S GUIDE)

The Advanced User's Guide explains the following features and operations.

You can view the Advanced User's Guide on the Documentation CD-ROM in the box.

### **1 General Setup**

---

*Memory storage*

*Automatic daylight savings time*

*Ecology features*

*LCD screen*

*User Settings Report*

*Network Configuration Report*

### **2 Security features**

---

*Secure Function Lock 2.0*

### **3 Printing reports**

---

*Reports*

### **4 Making copies**

---

*Copy settings*

### **A Routine maintenance**

---

*Cleaning and checking the machine*

*Replacing periodic maintenance parts*

*Packing and shipping the machine*

### **B Options**

---

*Optional paper tray (LT-300CL)*

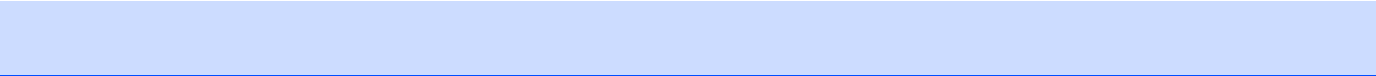
*Memory board*

### **C Glossary**

---

### **D Index**

---



## 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.

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

### WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injuries.

### CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injuries.

### IMPORTANT

IMPORTANT indicates a potentially hazardous situation which, if not avoided, may result in damage to property or loss of product functionality.



Electrical Hazard icons alert you to a possible electrical shock.



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



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

# Accessing the Advanced User's Guide, Software User's Guide and Network User's Guide

This Basic User's Guide does not contain all the information about the machine such as how to use the advanced features Copy, Printer, Scanner and Network. When you are ready to learn detailed information about these operations, read the **Advanced User's Guide**, **Software User's Guide**, **Network User's Guide**, and **Network Glossary** that are on the Documentation CD-ROM.

## Viewing Documentation

- 1 Turn on your computer. Insert the Documentation CD-ROM into your CD-ROM drive.

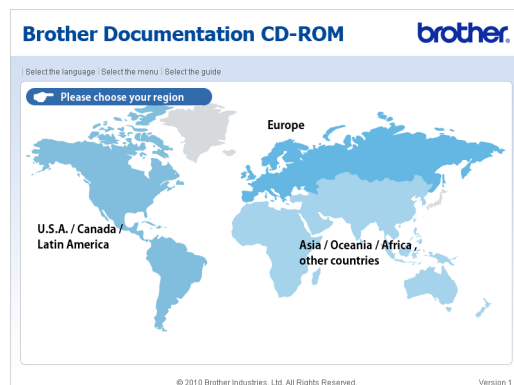


### Note

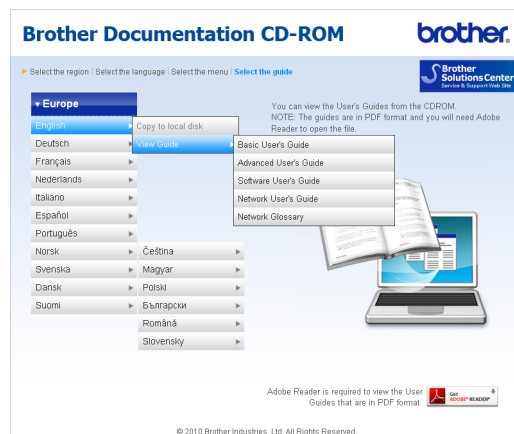
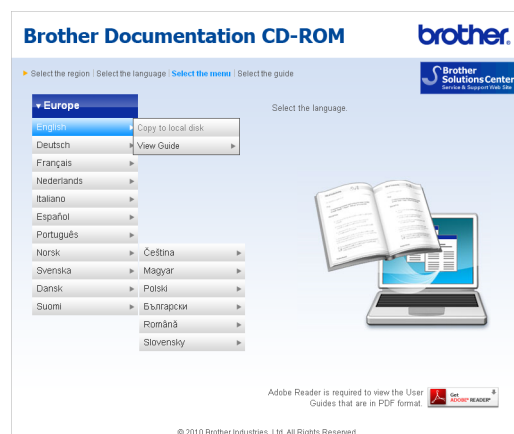
(Windows® users) If the screen does not appear automatically, go to **My Computer (Computer)**, double-click the CD-ROM icon, and then double-click **index.html**.

- 2 (Macintosh users) Double-click the Documentation CD-ROM icon, and then double-click **index.html**.

- 3 Click your country.



- 4 Point to your language, point to **View Guide**, and then click the guide you want to read.



**Note**

- (Windows® users only) Your web browser may display a yellow bar at the top of the page that contains a security warning about Active X controls. For the page to be displayed correctly, you must click on **Allow Blocked Content**, then click on **Yes** in the Security Warning dialog box.
- (Windows® users only) <sup>1</sup> For faster access, you can copy all user documentation in PDF format to a local folder on your computer. Point to your language, then click **Copy to local disk**.

<sup>1</sup> Microsoft® Internet Explorer® 6.0 or greater.

**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*
- *ControlCenter*
- *Network Scanning*

**ScanSoft™ PaperPort™ 12SE with OCR How-to-Guides****(Windows®)**

- The complete ScanSoft™ PaperPort™ 12SE with OCR How-to-Guides can be viewed from the Help section in the ScanSoft™ PaperPort™ 12SE application.

**Presto! PageManager User's Guide****(Macintosh)****Note**

Presto! PageManager must be downloaded and installed before use. See *Accessing Brother Support (Macintosh)* on page 4 for further instructions.

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

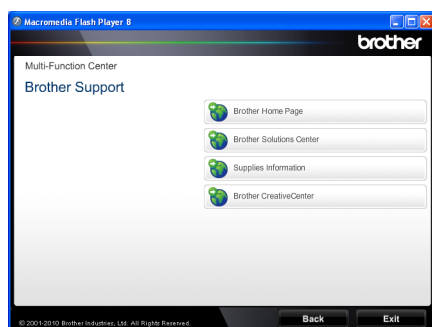
**How to find Network setup instructions**

Your machine can be connected to a wired network. You can find basic setup instructions in the *Quick Setup Guide*. For more information about network setup please see the *Network User's Guide* on the Documentation CD-ROM.

## Accessing Brother Support (Windows®)

You can find all the contacts you will need, such as Web support (Brother Solutions Center) on the Installation CD-ROM.

- Click **Brother Support** on the main menu. The following screen will appear:

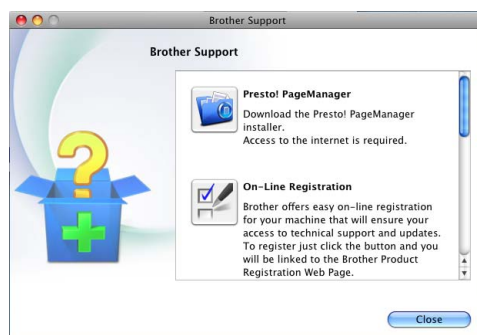


- To access our website (<http://www.brother.com/>), click **Brother Home Page**.
- For the latest news and product support information (<http://solutions.brother.com/>), click **Brother Solutions Center**.
- To visit our website for original Brother Supplies (<http://www.brother.com/original/>), click **Supplies Information**.
- To access the Brother CreativeCenter (<http://www.brother.com/creativecenter/>) for FREE photo projects and printable downloads, click **Brother CreativeCenter**.
- To return to the main page, click **Back** or if you have finished, click **Exit**.

## Accessing Brother Support (Macintosh)

You can find all the contacts you will need, such as Web support (Brother Solutions Center) on the Installation CD-ROM.

- Double-click the **Brother Support** icon. The following screen will appear:



- To download and install Presto! PageManager, click **Presto! PageManager**.
- To register your machine from the Brother Product Register Page (<http://www.brother.com/registration/>), click **On-Line Registration**.
- For the latest news and product support information (<http://solutions.brother.com/>), click **Brother Solutions Center**.
- To visit our website for original Brother Supplies (<http://www.brother.com/original/>), click **Supplies Information**.





# Control panel overview



## 1 LCD

This is a Touchscreen LCD. You can access the menus and options by pressing buttons displayed on the screen.

## 2 Mode keys:



**SCAN**

Puts the machine in Scan mode.



**COPY**

Puts the machine in Copy mode.

## 3 Numeric keys

Use these keys to enter text.

## 4 Stop/Exit

Stops an operation or exits from a menu.

## 5 Start:

### Colour

Lets you start making copies in full colour.

### Mono

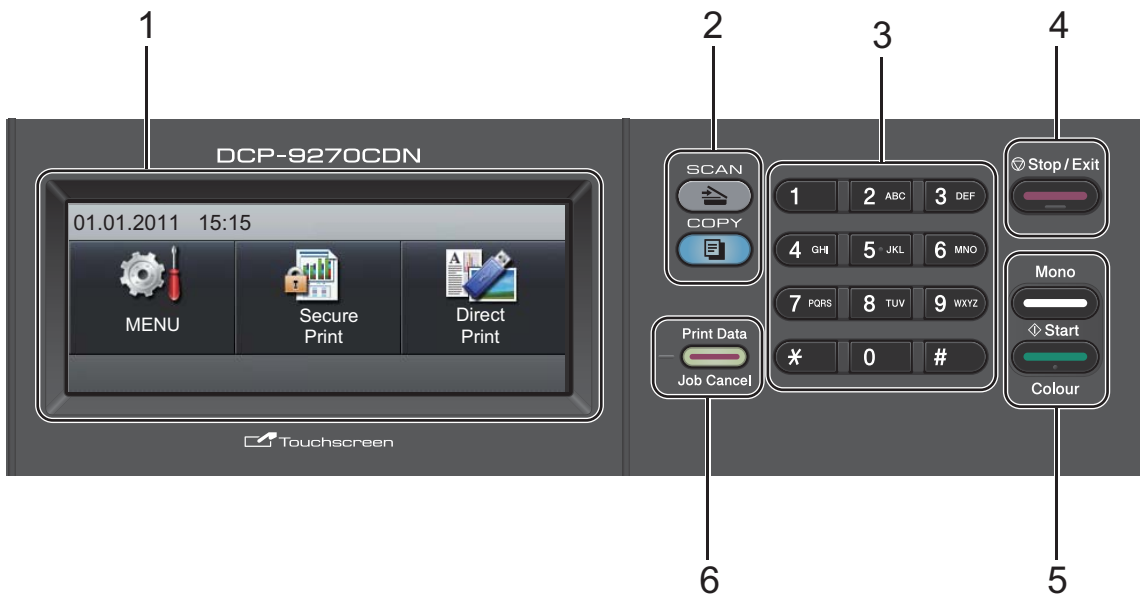
Lets you start making copies in black & white.

## 6 Print Data / Job Cancel

Cancels a programmed print job and clears it from the machine's memory. To cancel multiple print jobs, hold down this key until the LCD shows Cancel Printing (All).

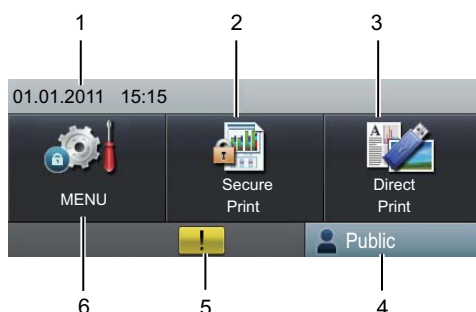
Also, this key will flash depending on the machine's status.

Machine Status	Description
Ready Mode 	The machine is ready to print, in sleep mode, there is no print data, or the power switch is off.
Receiving Data  Green (blinking)	The machine is either receiving data from the computer, processing data in memory, or printing data.
Data Remaining in Memory  Green	Print data remains in the machine memory.



## LCD Touchscreen

The LCD shows the current machine status when the machine is idle.



### 1 Date and Time

Lets you see the date and time.

### 2 Secure Print

Lets you access the secure print menu.

Active only when the machine has secure print data.

### 3 Direct Print

Lets you print data from a USB flash memory drive or a digital camera supporting mass storage directly to the machine. (See *Printing data directly from the USB Flash memory drive or digital camera supporting mass storage* on page 29.)

Active only when you insert a USB flash memory drive or digital camera in the machine's USB direct interface.

### 4 Security indicator

Shows the machine's security status, when the Secure Function Lock is turned on.

### 5 Warning icon !

Appears when there is an error or maintenance message; press the Warning icon to view it, and then press **Stop/Exit** to return to the Ready screen.

### 6 MENU

Lets you access the main menu.

## Basic Operations

To operate the Touchscreen use your finger to press the menu or option button directly on the LCD screen.

To display and access all the screen menus or options in a setting, press ▲▼ or ◀▶ to scroll through them.

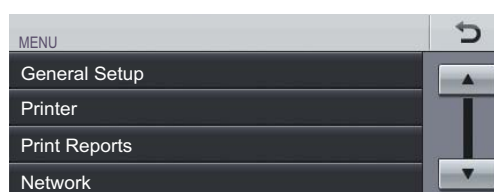
Press to return to the previous menu.

### ! IMPORTANT

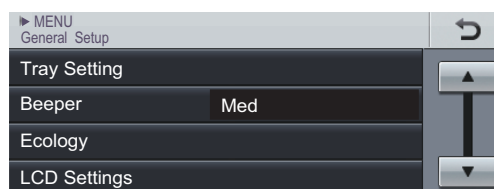
DO NOT press the Touchscreen with a sharp object, such as a pen or stylus. It may damage the machine.

The following steps show how to change a setting in the machine. In this example the Back Light setting is changed from *Light* to *Dark*.

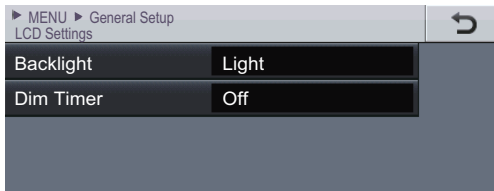
- 1 Press **MENU**.
- 2 Press ▲ or ▼ to display General Setup.  
Press General Setup.



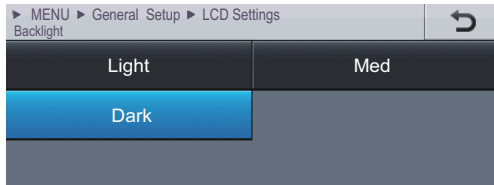
- 3 Press ▲ or ▼ to display LCD settings.  
Press LCD settings.



#### 4 Press Backlight.



#### 5 Press Dark.



#### 6 Press **Stop/Exit**.

## Volume settings

### Beeper volume

1

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

- 1 Press **MENU**.
- 2 Press ▲ or ▼ to display General Setup.  
Press General Setup.
- 3 Press ▲ or ▼ to display Beeper.  
Press Beeper.
- 4 Press Low, Med, High or Off.
- 5 Press **Stop/Exit**.

# 2

## Loading paper

### Loading paper and print media

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

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

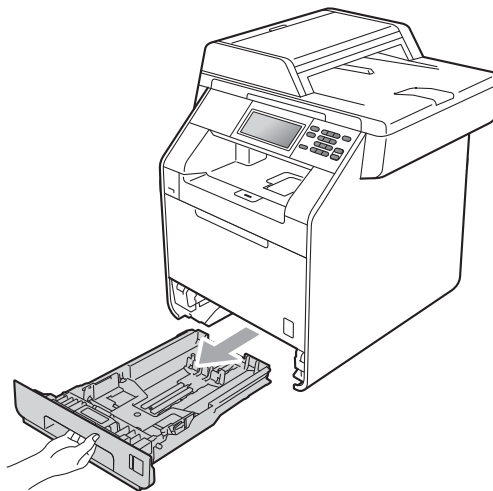
- If your application software supports paper size selection on the print menu, you can select it through the software. If your application software does not support it, you can set the paper size in the printer driver or by pressing the buttons on the Touchscreen.

### Loading paper in the standard paper tray (Tray 1)

You can load up to 250 sheets for Tray 1 and 500 sheets for the optional lower tray (Tray 2). Paper can be loaded up to the maximum paper mark (▼▼▼) on the sliding paper width guide. (For recommended paper to use, see *Paper capacity of the paper trays* on page 21.)

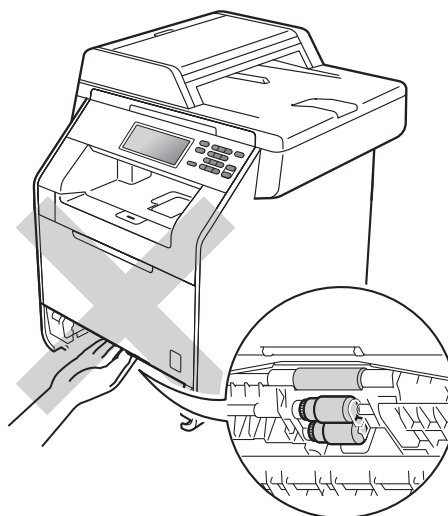
**Printing on plain paper, thin paper or recycled paper from the standard paper tray**

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

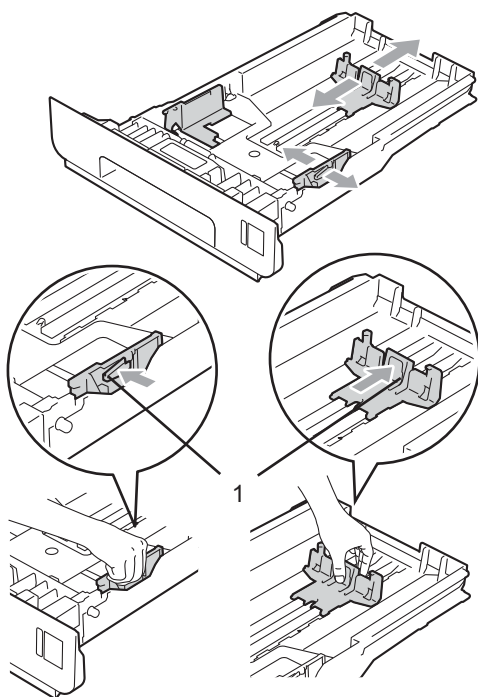


### WARNING

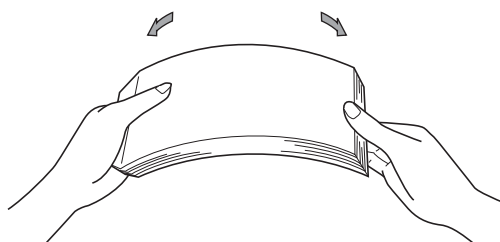
DO NOT touch the shaded parts shown in the illustration. These rollers may be rotating at high speed.



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

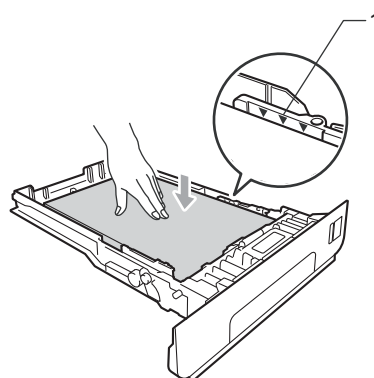


- 3 Fan the stack of paper well to avoid paper jams and misfeeds.



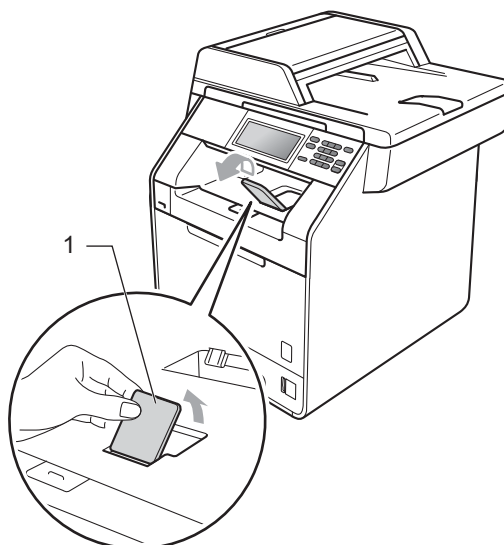
- 4 Put paper in the tray and make sure:

- The paper is below the maximum paper mark (▼▼▼) (1).
- The side to be printed on must be *face down*.
- The paper guides touch the sides of the paper so it will feed properly.



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

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

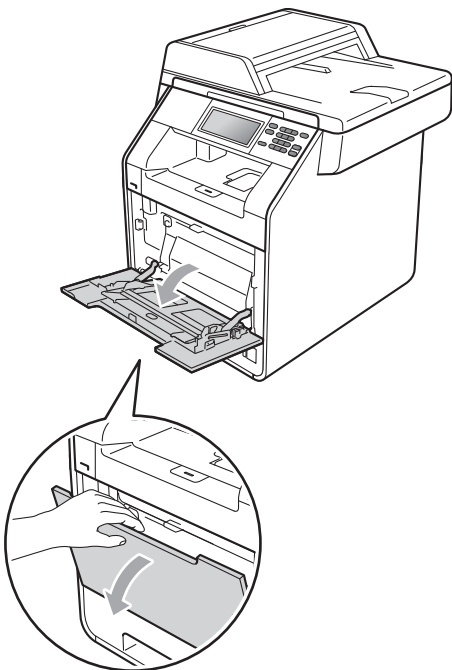


## Loading paper in the multi-purpose tray (MP tray)

You can load up to 3 envelopes or special print media in the MP tray or up to 50 sheets of plain paper. Use this tray to print or copy on thick paper, bond paper, glossy paper, labels, or envelopes. (For recommended paper to use, see *Paper capacity of the paper trays* on page 21.)

### Printing on plain paper, bond paper, labels or glossy paper from the MP tray

- 1 Open the MP tray and lower it gently.



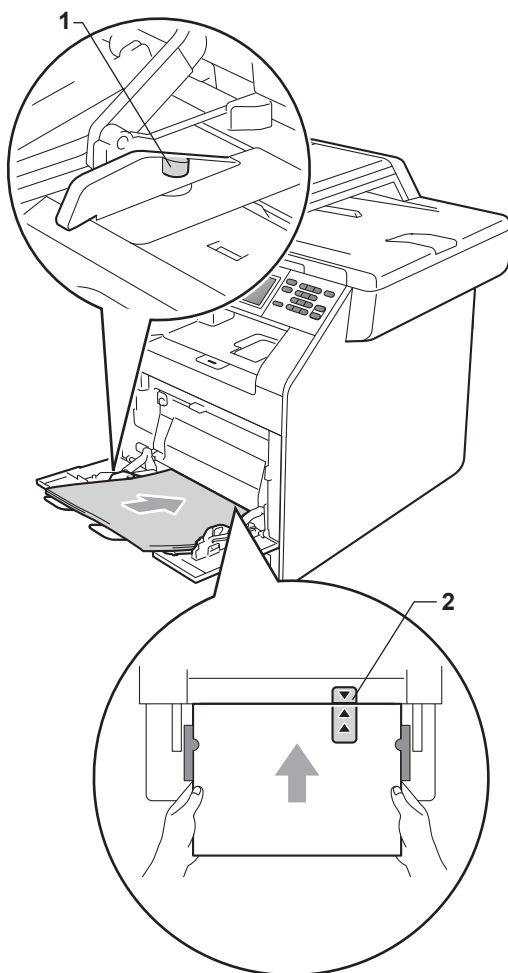
- 2 Pull out the MP tray support and unfold the flap (1).





**3** Put paper in the MP tray and make sure:

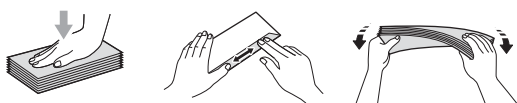
- The paper stays under the maximum paper mark (1).
- The top of paper edge is positioned between the arrows (2).
- The side to be printed on must be *face up* with the leading edge (top of the paper) in first.

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

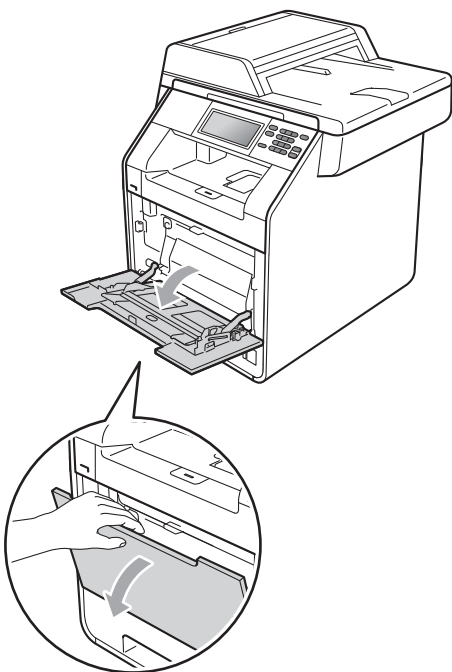
When you are using glossy paper, put only one sheet at a time in the MP tray to avoid a paper jam.

## Printing on envelopes and thick paper from the MP tray

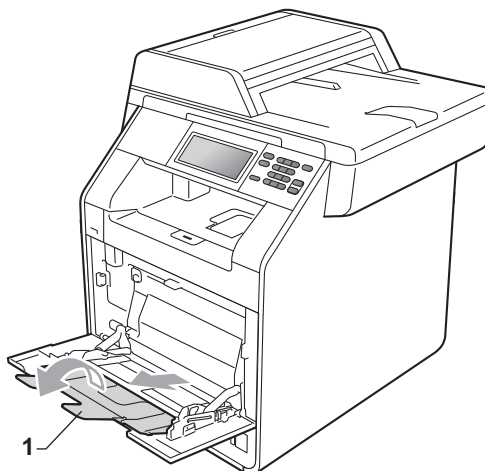
Before loading, press the corners and sides of the envelopes to make them as flat as possible.



- 1 Open the MP tray and lower it gently.



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

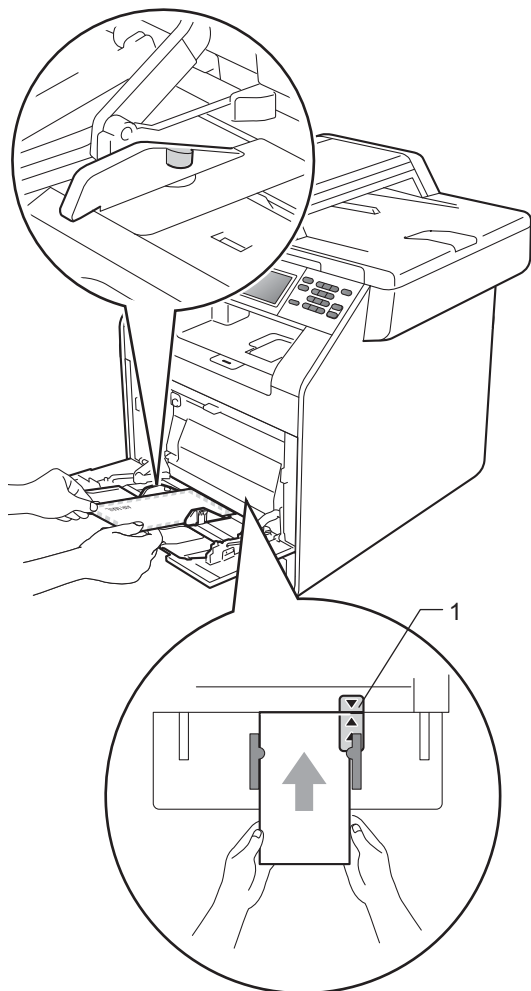


- 3 Lift up the support flap to prevent envelopes or sheets of thick paper from sliding off the *face-down* output tray. If the support flap is closed you should remove each envelope as soon as it comes out of the machine.

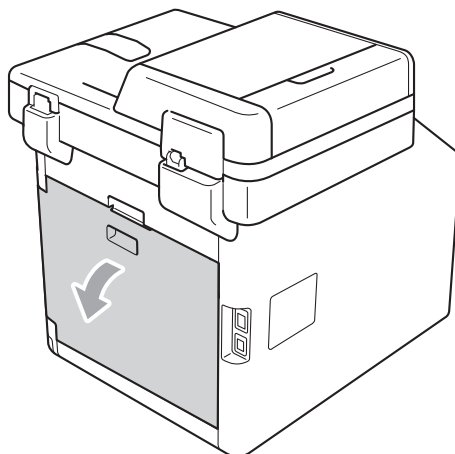


- 4 Put up to 3 envelopes or up to 25 sheets of thick paper (163 g/m<sup>2</sup>) in the MP tray. If you add more envelopes or paper it may cause a jam. Make sure:

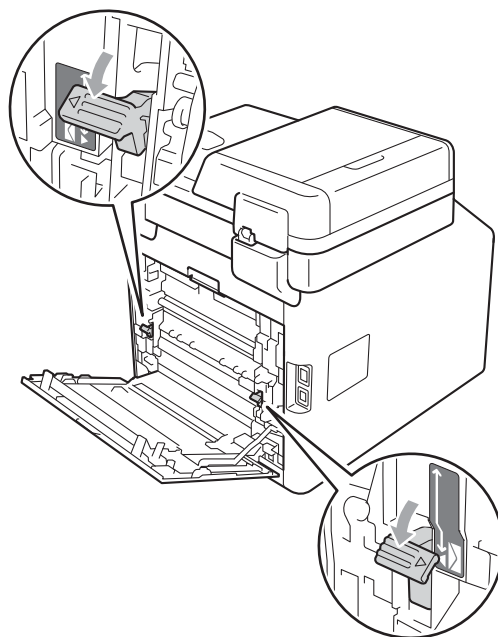
- The top edge of the envelope is positioned between the arrows (1).
- The side to be printed on must be *face up*.



- 5 Open the back cover (*Face-up* output tray).



- 6 Pull down the two grey levers, one on the left-hand side and one on the right-hand side, to the envelope position as shown in the illustration below.



- 7 Close the back cover.
- 8 Send the print data to the machine.

- 9 When you have finished printing, open the back cover and reset the two grey levers which were pulled down in step 6 back to their original positions.



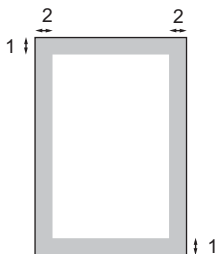
---

**Note**

- Remove each printed envelope immediately to prevent a paper jam.
  - If your thick paper curls during printing, put only one sheet at a time in the MP tray and open the back cover (*face-up* output tray) to let the printed pages exit onto the *face-up* output tray.
-

## Unscannable and unprintable areas

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



Usage	Document Size	Top (1) Bottom (1)	Left (2) Right (2)
Copy*  *a single copy or a 1 in 1 copy	Letter	4 mm	4 mm
	A4	4 mm	4 mm
Scan	Letter	3 mm	3 mm
	A4	3 mm	3 mm
Print	Letter	4 mm	4 mm
	A4	4 mm	4 mm

# Paper settings

## Paper Size and Type

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.

You can use the following sizes of paper for printing copies: A4, Letter, Legal, Executive, A5, A5 L, A6, B5, B6 and Folio (8.5 in. × 13 in.).

Following on the paper size setting, you can set up the machine for the type of paper you are using. This will give you the best print quality.

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to display General Setup.  
Press **General Setup**.
- 3 Press **▲** or **▼** to display Tray Setting.  
Press **Tray Setting**.
- 4 Do one of the following:
  - To set the paper type for the MP Tray press **▲** or **▼** to display MP Tray.  
Press **MP Tray**.
  - To set the paper type for Tray#1 press **▲** or **▼** to display Tray#1.  
Press **Tray#1**.
  - To set the paper type for Tray#2 press **▲** or **▼** to display Tray#2.  
Press **Tray#2** <sup>1</sup> if you installed the optional tray.

<sup>1</sup> The Tray#2 button will be selectable if the optional tray is installed.

- 5 Press **◀** or **▶** to display the paper size options.  
Press **A4, Letter, Legal, Executive, A5, A5 L, A6, B5, B6, Folio** or **Any**.



### Note

- The **Any** option appears only when you choose the MP tray.
- If you choose **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.
- A5 L and A6 size are not available for Tray#2.

- 6 Press **Thin, Plain, Thick, Thicker, Recycled Paper** or **Glossy**.

- 7 Press **Stop/Exit**.



### Note

You can choose **Glossy** for the MP Tray.

## Tray Use in copy mode

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

When you choose Tray#1 Only, MP Only or Tray#2 Only<sup>1</sup>, the machine pulls 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.
  - 2 Press ▲ or ▼ to display General Setup.  
Press General Setup.
  - 3 Press ▲ or ▼ to display Tray Setting.  
Press Tray Setting.
  - 4 Press ▲ or ▼ to display Tray Use:Copy.  
Press Tray Use:Copy.
  - 5 Press Tray#1 Only, Tray#2 Only<sup>1</sup>, MP Only, MP>T1>T2<sup>1</sup> or T1>T2<sup>1</sup>>MP.
- <sup>1</sup> The Tray#2 Only or T2 appears only if the optional tray is installed.
- 6 Press Stop/Exit.



### Note

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

## Tray Use in print mode

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

- 1 Press MENU.
  - 2 Press ▲ or ▼ to display General Setup.  
Press General Setup.
  - 3 Press ▲ or ▼ to display Tray Setting.  
Press Tray Setting.
  - 4 Press ▲ or ▼ to display Tray Use:Print.  
Press Tray Use:Print.
  - 5 Press Tray#1 Only, Tray#2 Only<sup>1</sup>, MP Only, MP>T1>T2<sup>1</sup> or T1>T2<sup>1</sup>>MP.
- <sup>1</sup> The Tray#2 Only or T2 appears only if the optional tray is installed.
- 6 Press Stop/Exit.

## Acceptable paper and other print media

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

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

For best results, follow the instructions below:

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

## Recommended paper and print media

Paper Type	Item
Plain paper	Xerox Premier TCF 80 g/m <sup>2</sup>
	Xerox Business 80 g/m <sup>2</sup>
Recycled Paper	Xerox Recycled Supreme 80 g/m <sup>2</sup>
Labels	Avery laser label L7163
Envelope	Antalis River series (DL)
Glossy Paper	International Paper Rey Color Laser Gloss 140g/m <sup>2</sup> A4

## Type and size of paper

The machine feeds paper from the installed standard paper tray, multi-purpose tray or optional lower tray.

**The name for the paper trays in the printer driver in this Guide are as follows:**

Tray and optional unit	Name
Standard paper tray	Tray 1
Multi-purpose tray	MP Tray
Optional lower tray	Tray 2



## Paper capacity of the paper trays

	Paper size	Paper types	No. of sheets
Paper Tray (Tray 1)	A4, Letter, Legal, B5, Executive, A5, A5 (Long Edge), A6, B6, Folio <sup>1</sup>	Plain paper, Thin paper and Recycled paper	up to 250 [80 g/m <sup>2</sup> ]
Multi-purpose Tray (MP Tray)	Width: 69.8 to 216 mm Length: 116 to 406.4 mm	Plain paper, Thin paper, Thick paper, Thicker paper, Bond paper, Recycled paper, Envelopes, Labels and Glossy paper	50 sheets [80 g/m <sup>2</sup> ] 3 Envelopes 1 Glossy paper
Optional Lower Tray (Tray 2)	A4, Letter, Legal, B5, Executive, A5, B6, Folio <sup>1</sup>	Plain paper, Thin paper and Recycled paper	up to 500 [80 g/m <sup>2</sup> ]

<sup>1</sup> Folio size is 8.5 in. × 13 in. (215.9 mm x 330.2 mm)

## Recommended paper specifications

The following paper specifications are suitable for this machine.

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

- Use paper made for plain paper copying.
- Use paper that is 75 to 90 g/m<sup>2</sup>.
- Use long grain paper with a neutral Ph value, and a moisture content of approx. 5%.
- This machine can use recycled paper that meets DIN 19309 specifications.

## Handling and using special paper

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

Some important guidelines when selecting paper are:

- DO NOT use inkjet paper because it may cause a paper jam or damage your machine.
- Preprinted paper must use ink that can withstand the temperature of the machine's fusing process 200 degrees centigrade (392 degrees Fahrenheit).
- If you use bond paper, paper having a rough surface or paper that is wrinkled or creased, the paper may exhibit degraded performance.
- When you are using glossy paper, put only one sheet at a time in the MP tray to avoid a paper jam.

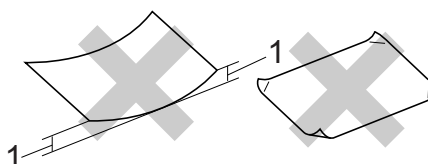
## Types of paper to avoid

### ! IMPORTANT

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

DO NOT use paper:

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



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

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

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

## Envelopes

Most envelopes designed for laser printers will be suitable for your machine. However, some envelopes may have feed and print-quality problems because of the way they have been made. A suitable envelope should have edges with straight, well-creased folds and the leading edge should not be thicker than two sheets of paper. The envelope should lie flat and not be of baggy or flimsy construction. You should buy quality envelopes from a supplier who understands that you will be using the envelopes in a laser machine.

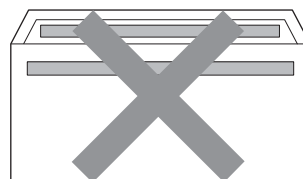
We recommend that you print a test envelope to make sure the print results are what you want.

## Types of envelopes to avoid

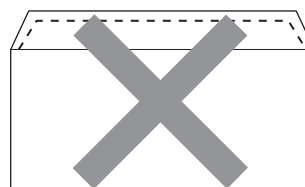
### ! IMPORTANT

DO NOT use envelopes:

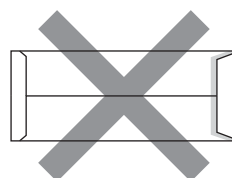
- that are damaged, curled, wrinkled or an unusual shape
- that are extremely shiny or textured
- with clasps, staples, snaps or tie strings
- with self-adhesive closures
- that are of a baggy construction
- that are not sharply creased
- that are embossed (have raised writing on them)
- that were previously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



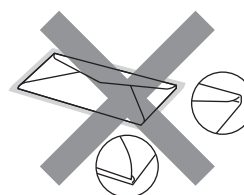
- with double flaps as shown in figure below



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



- with each side folded as shown in figure below



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

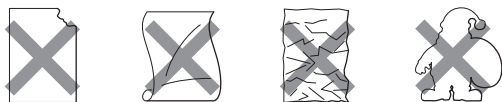
## Labels

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

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

### Types of labels to avoid

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



### ! IMPORTANT

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

## How to load documents

You can make copies, and scan from the ADF (Automatic Document Feeder) and the scanner glass.

### Using the automatic document feeder (ADF)

The ADF can hold up to 50 pages and feeds each sheet individually. Use standard 80 g/m<sup>2</sup> paper and always fan the pages before putting them in the ADF.

#### Document Sizes Supported

Length:	147.3 to 356.0 mm
Width:	147.3 to 215.9 mm
Weight:	64 to 90 g/m <sup>2</sup>

#### How to load documents

##### ! IMPORTANT

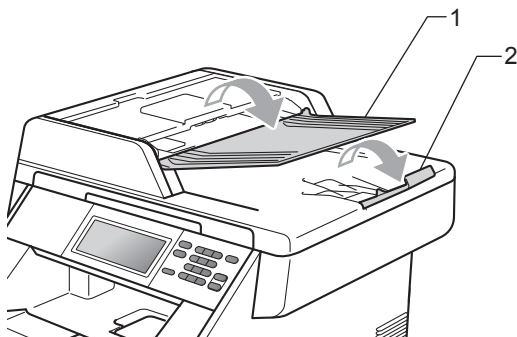
- DO NOT leave thick documents on the scanner glass. If you do this, the ADF may jam.
- DO NOT use paper that is curled, wrinkled, folded, ripped, stapled, paper-clipped, pasted or taped.
- DO NOT use cardboard, newspaper or fabric.
- To avoid damaging your machine while using the ADF, DO NOT pull on the document while it is feeding.



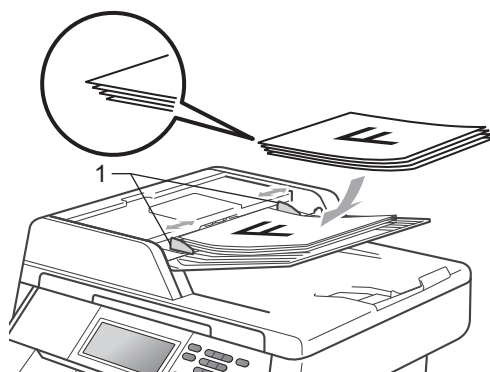
#### Note

- To scan documents that are not suitable for the ADF, see *Using the scanner glass* on page 26.
- It is easier to use the ADF if you are loading a multiple page document.
- Make sure documents with correction fluid or written with ink are completely dry.

- 1 Unfold the ADF document support (1). Lift up and unfold the ADF document output support flap (2).



- 2 Fan the pages well.
- 3 Place your document *face up top edge first* in the ADF until the LCD display message changes and you feel it touch the feed rollers.
- 4 Adjust the paper guides (1) to fit the width of your document.



**Note**

- 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 26.

## Using the scanner glass

You can use the scanner glass to copy or scan pages of a book one page at a time.

### Document Sizes Supported

Length:	Up to 355.6 mm
Width:	Up to 215.9 mm
Weight:	Up to 2.0 kg

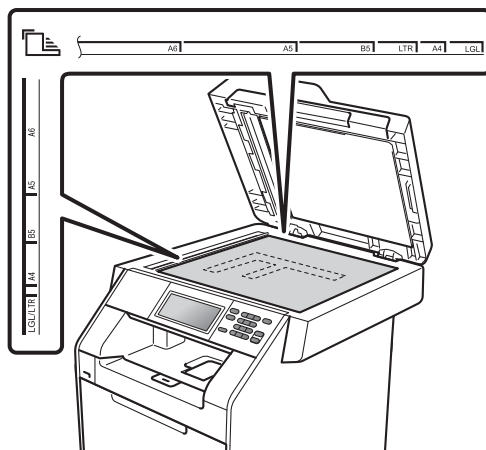
### How to load documents

**Note**

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

- 1 Lift the document cover.

- 2 Using the document guidelines on the left and top, place the document *face down* in the upper left corner of the scanner glass.




- 3 Close the document cover.

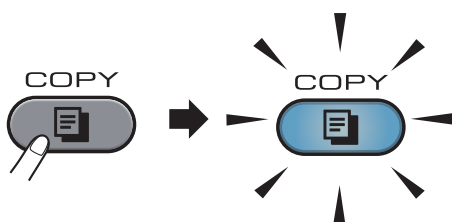
## ! IMPORTANT

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

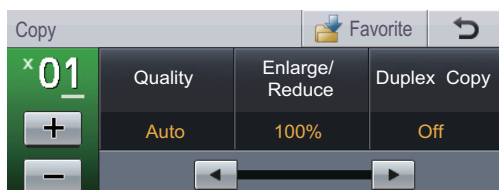
## How to copy

The following steps show the basic copy operation. For details about each option, see *Advanced User's Guide*.

- 1 When you want to make a copy, press  (**COPY**) to illuminate it in blue.
  - Make sure you are in Copy mode.



- The LCD shows:



You can enter the number of copies you want by pressing the + and - buttons on the Touchscreen.

- 2 Do one of the following to load your document:
  - Place the document *face up* in the ADF. (See *Using the automatic document feeder (ADF)* on page 25.)
  - Load your document *face down* on the scanner glass. (See *Using the scanner glass* on page 26.)
- 3 Press **Mono Start** or **Colour Start**.



### Note

If the LCD shows **Please Wait** and the machine stops copying while you are making multiple copies, please wait for 30 to 40 seconds until the machine finishes the colour registrations and cleaning process of the belt unit.

## Stop copying

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

## Copy settings

Press **COPY** and then press ◀ or ▶ to choose the setting you want. For details about changing the copy settings, see *Copy settings* in *Chapter 4* of the *Advanced User's Guide*.

You can change the following copy settings:

- Quality
- Enlarge/Reduce
- Duplex Copy
- Tray Use (Tray Selection)
- Brightness
- Contrast
- Stack / Sort
- Page Layout
- 2in1 (ID)
- Color Adjust (Saturation)
- Set New Default
- Factory Reset
- Favorite Settings

# 5

## Printing data from a USB Flash memory drive or digital camera supporting mass storage

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



### Note

- Some USB Flash memory drives may not work with the machine.
- If your camera is in PictBridge mode, you cannot print data. Please refer to the documentation supplied with your camera to switch from PictBridge mode to mass storage mode.

## Creating a PRN or PostScript® 3™ file for direct printing

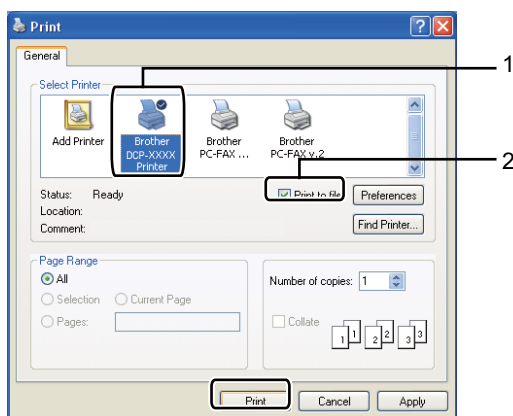


### Note

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

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

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



- 3 Choose the folder you want to save the file to and enter the file name if you are prompted to.

If you are prompted for a file name only, you can also specify the folder you want to save the file in by entering the directory name. For example:

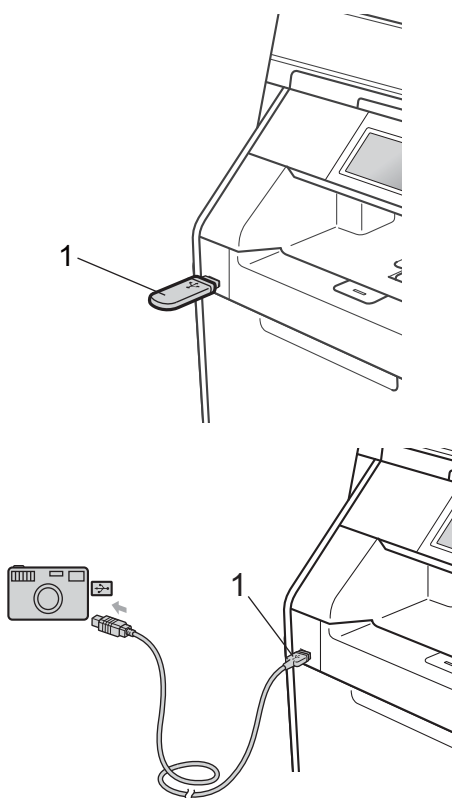
C:\Temp\FileName.prn

If you have a USB Flash memory drive or digital camera connected to your computer, you can save the file directly to the USB Flash memory drive.



## Printing data directly from the USB Flash memory drive or digital camera supporting mass storage

- 1 Connect your USB Flash memory drive or digital camera to the USB direct interface (1) on the front of the machine. Press **Direct Print** on the Touchscreen. Your machine will enter Direct Print Mode.



### Note

- Make sure your digital camera is turned on.
- If your machine has been set to Secure Function Lock On, you may not be able to access Direct print. (See *Switching Users* in chapter 2 of the *Advanced User's Guide*.)



- 2 Press **▲** or **▼** to choose the folder name and file name you want to print. If you have chosen the folder name, press **▲** or **▼** to choose the file name you want to print.



### Note

- Your digital camera must be switched from PictBridge mode to mass storage mode.
- If you want to print an index of the files, press **Index Print** on the Touchscreen. Press **Mono Start** or **Colour Start** to print the data.
- When the machine is in Deep Sleep mode, the LCD does not show any information even if you connect a USB flash memory drive to the USB direct interface. Press the Touchscreen or any key to wake up the machine. Press **Direct Print** on the Touchscreen, the LCD will show the Direct Print menu.



- 3 Choose the number of copies you want by pressing the **+** and **-** buttons on the Touchscreen.



- 4 Do one of the following:
  - Press **Print Settings**. Go to step 5.
  - If you do not need to change the current default settings, go to step 7.


- 5 Press ▲ or ▼ to display an option setting you need to change.  
Press the option and change the setting.

**Note**

- You can choose the following settings:

Paper Size  
Paper Type  
Multiple Page  
Orientation  
Duplex  
Collate  
Tray Use  
Print Quality  
PDF Option

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

- 6 Do one of the following:
- If you want to change other option settings, repeat step 5.
  - If you do not want to change any other options, press  and go to step 7.

- 7 Press **Mono Start** or **Colour Start** to print the data.

## ! IMPORTANT

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

## Changing the default settings for direct print

You can change the default settings for Direct Print.

- 1 Connect your USB Flash memory drive or digital camera to the USB direct interface on the front of the machine.
- 2 Press **Direct Print** on the Touchscreen.
- 3 Press **Default Settings**.
- 4 Press ▲ or ▼ to display the setting you want to change.  
Press the setting.
- 5 Press the new option you want. Repeat steps 4 to 5 for each setting you want to change.

**Note**

How to display all available options:

When the LCD displays the ◀ and ▶ buttons, press ◀ or ▶ to display all available options.

## Printing a document

The machine can receive data from your computer and print it. To print from a computer, install the printer driver. (See *Printing for Windows*® or *Printing and Faxing* for Macintosh in the *Software User's Guide* for the details about the print settings.)

- 1 Install the Brother printer driver on the Installation CD-ROM. (See the *Quick Setup Guide*.)
- 2 From your application, choose the Print command.
- 3 Choose the name of your machine in the **Print** dialog box and click **Properties**.
- 4 Choose the settings you want in the **Properties** dialog box.
  - **Paper Size**
  - **Orientation**
  - **Copies**
  - **Media Type**
  - **Print Quality**
  - **Colour / Mono**
  - **Multiple Page**
  - **Duplex / Booklet**
  - **Paper Source**
- 5 Click **OK** to begin printing.

## Scanning a document as PDF file using ControlCenter4 (Windows®)

(For Macintosh users) See *Scanning* in the *Software User's Guide*.

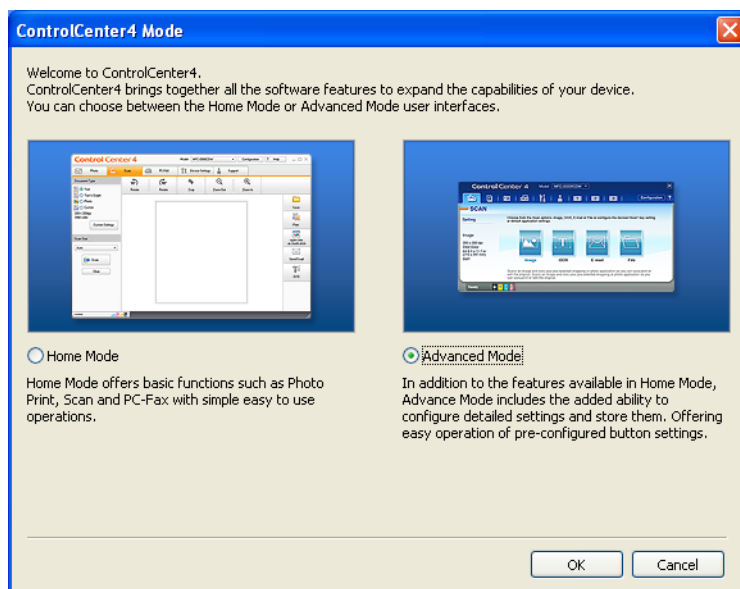


### Note

The screens on your PC may vary depending on your model.

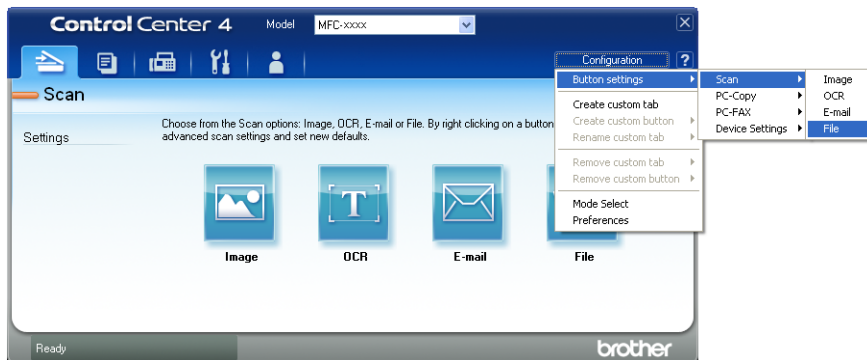
ControlCenter4 is a software utility that lets you quickly and easily access the applications you use most often. Using ControlCenter4 eliminates the need to manually launch specific applications. You can use ControlCenter4 on your computer.

- 1 Load your document. (See *How to load documents* on page 25.)
- 2 Open ControlCenter4 by clicking **start/All Programs/Brother/XXX-XXXX** (where XXX-XXXX is your model name)/**ControlCenter4**. The ControlCenter4 application will open.
- 3 Choose **Home Mode** or **Advanced Mode** before you use ControlCenter4.

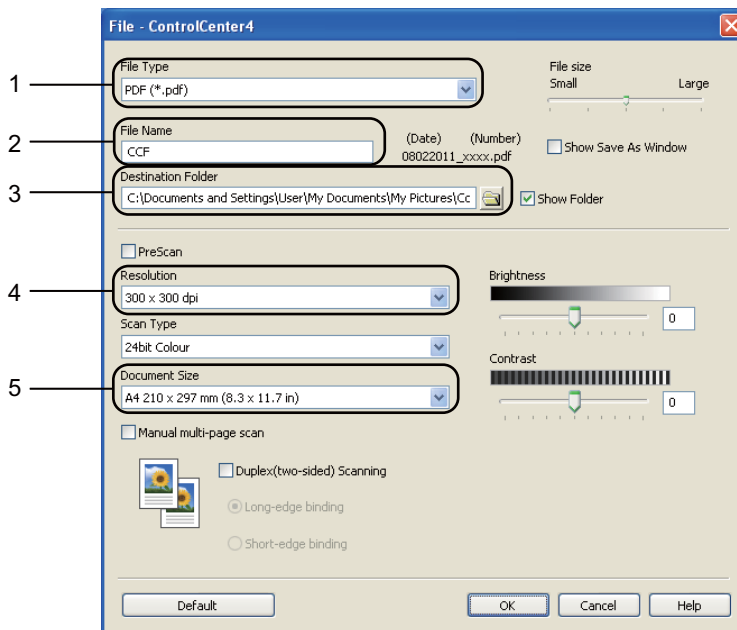



- 4 Make sure the machine you want to use is selected from the **Model** pull-down list.

- 5 Set the file type for saving to a folder. By default, the scanned data is saved as **JPEG (\*.jpg)**. Click **Configuration**, and then select **Button settings, Scan and File**.



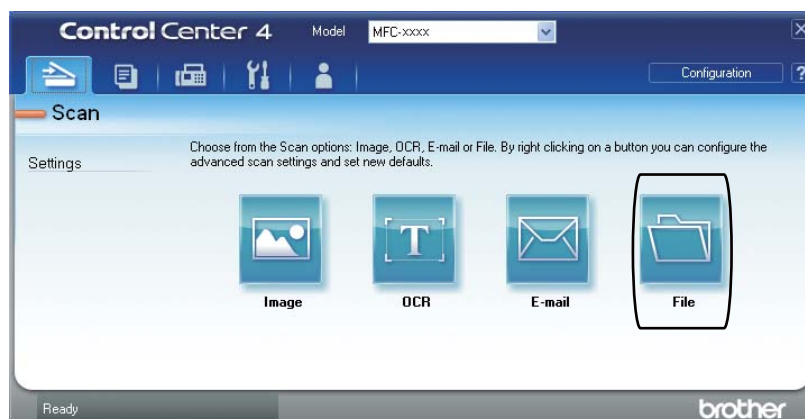
The configuration dialog box appears. You can change the default settings.



- 1 Choose **PDF (\*.pdf)** from the **File Type** pull-down list.
- 2 You can enter the file name you want to use for the document.
- 3 You can save the file to the default folder, or choose your preferred folder by clicking the  **Browse** button.
- 4 You can choose a scanning resolution from the **Resolution** pull-down list.
- 5 You can choose the document size from the pull-down list.

- 6 Click **OK**.

- 7 Click **File**.  
The machine starts the scanning process. The folder where the scanned data is saved will open automatically.



# Changing the SCAN key settings

## Before scanning

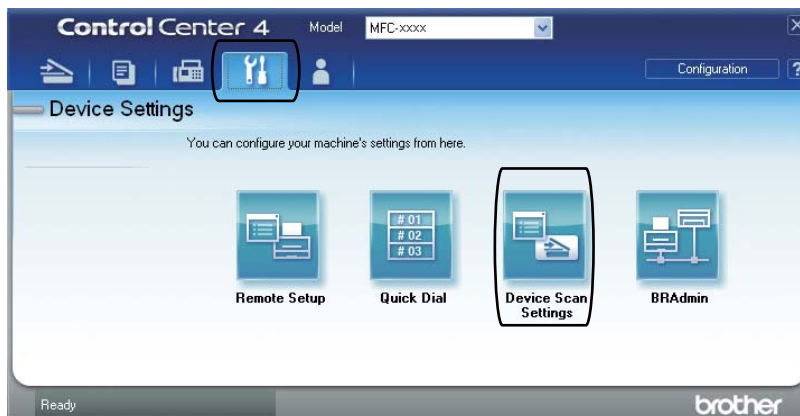
To use the machine as a scanner, install a scanner driver. If the machine is on a network, configure it with a TCP/IP address.

- Install the scanner drivers on the Installation CD-ROM. (See the *Quick Setup Guide*.)
- Configure the machine with a TCP/IP address if network scanning does not work. (See *Configuring Network Scanning* in the *Software User's Guide*.)

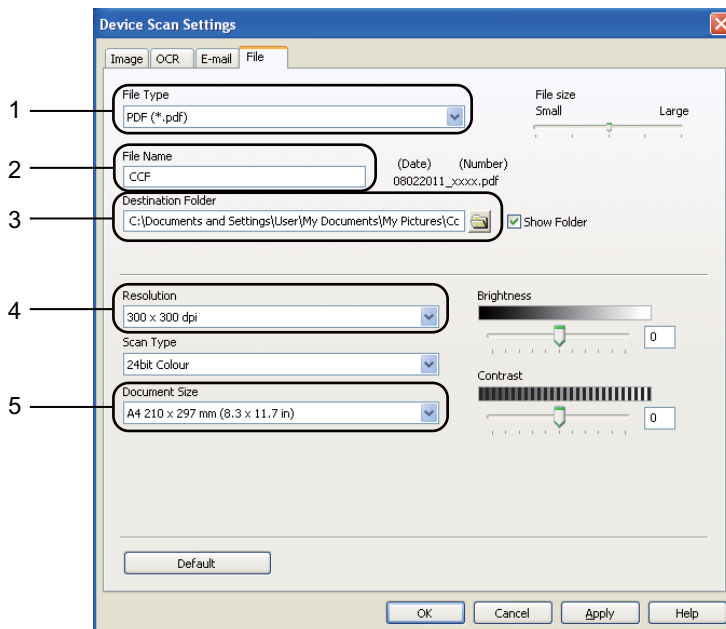
## SCAN key settings


You can change your machine's **SCAN** key settings using ControlCenter4.

- 1 Open ControlCenter4 by clicking **start/All Programs/Brother/XXX-XXXX** (where XXX-XXXX is your model name)/**ControlCenter4**. The ControlCenter4 application will open.
- 2 Make sure the machine you want to use is selected from the **Model** pull-down list.
- 3 Click the **Device Settings** tab.
- 4 Click **Device Scan Settings**.



- 5 Choose the **File** tab. You can change the default settings.




- 1 You can choose the file type from the pull-down list.
- 2 You can enter the file name you want to use for the document.
- 3 You can save the file to the default folder, or choose your preferred folder by clicking the  **Browse** button.
- 4 You can choose a scanning resolution from the **Resolution** pull-down list.
- 5 You can choose the document size from the pull-down list.

- 6 Click **OK**.



## Scanning using the SCAN key

- 1 Load your document. (See *How to load documents* on page 25.)
- 2 Press  (**SCAN**).
- 3 Press **Scan to PC**.
- 4 Press **File**.
- 5 (For Network users)  
Press ▲ or ▼ to choose the destination computer you want to send to.  
Press **OK**.  
If the LCD prompts you to enter a PIN number, enter the 4-digit PIN number for the destination computer using the dial pad on the control panel.  
Press **OK**.
- 6 Do one of the following:
  - If you want to change the duplex setting, press **Duplex Scan**. Then press **Off**,  
**DuplexScan : LongEdge** or **DuplexScan : ShortEdge**.
  - To start scanning without changing additional settings, go to step 7.
- 7 Press **Mono Start** or **Colour Start**.  
The machine starts the scanning process.



### Note

Choose the scan mode you want.

Scan to:

- USB
- Network
- FTP
- E-mail (Server)<sup>1</sup>
- E-Mail
- Image
- OCR
- File

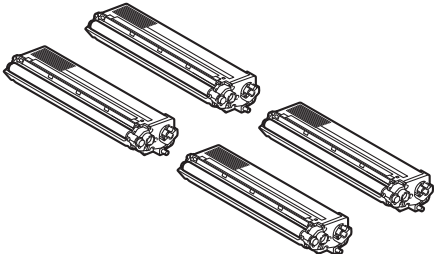
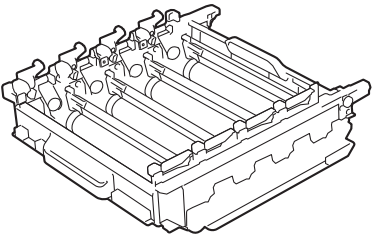
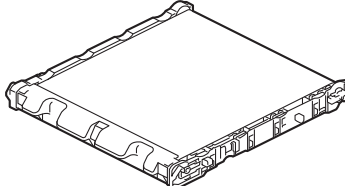
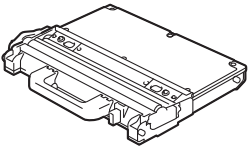
<sup>1</sup> If the machine is connected to your LDAP server, you can search for information such as E-mail addresses from your server. (For details about how to set up LDAP see the *Network User's Guide*.)

# A

## Routine maintenance

### Replacing the consumable items

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

Toner cartridge	Drum unit
<p>See <i>Replacing a Toner cartridge</i> on page 42.</p> <p>Model Name: TN-320BK, TN-325BK, TN-328BK, TN-320C, TN-325C, TN-328C, TN-320M, TN-325M, TN-328M, TN-320Y, TN-325Y, TN-328Y,</p>	<p>See <i>Replacing the drum unit</i> on page 48.</p> <p>Model Name: DR-320CL</p>
	
Belt unit	Waste toner box
<p>See <i>Replacing the belt unit</i> on page 54.</p> <p>Model Name: BU-300CL</p>	<p>See <i>Replacing the waste toner box</i> on page 60.</p> <p>Model Name: WT-300CL</p>
	

LCD messages	Consumable item to replace	Approximate life	How to replace	Model name
Toner Low Prepare New Toner Cartridge.X	Toner cartridge X = Black, Cyan, Magenta, Yellow	<Black> 2,500 pages <sup>1 2 3</sup> 4,000 pages <sup>1 2 4</sup> 6,000 pages <sup>1 2 5</sup> <Cyan, Magenta, Yellow> 1,500 pages <sup>1 2 3</sup> 3,500 pages <sup>1 2 4</sup> 6,000 pages <sup>1 2 5</sup>	See page 42.	TN-320BK <sup>3</sup> , TN-325BK <sup>4</sup> , TN-328BK <sup>5</sup> , TN-320C <sup>3</sup> , TN-325C <sup>4</sup> , TN-328C <sup>5</sup> , TN-320M <sup>3</sup> , TN-325M <sup>4</sup> , TN-328M <sup>5</sup> , TN-320Y <sup>3</sup> , TN-325Y <sup>4</sup> , TN-328Y <sup>5</sup>
Replace Parts WT Box End Soon	Waste toner box	50,000 pages <sup>1</sup>	See page 60.	WT-300CL

<sup>1</sup> A4 or Letter size single-sided pages.

<sup>2</sup> Approx. cartridge yield is declared in accordance with ISO/IEC 19798.

<sup>3</sup> Standard toner cartridge

<sup>4</sup> High capacity toner cartridge

<sup>5</sup> Super high capacity toner cartridge

You will need to clean the machine regularly and replace the consumable items when the following messages are displayed on the LCD.

LCD messages	Consumable item to replace	Approximate life	How to replace	Model name
Replace TonerX	Toner cartridge	<Black> 2,500 pages <sup>1 2 5</sup> 4,000 pages <sup>1 2 6</sup> 6,000 pages <sup>1 2 7</sup> <Cyan, Magenta, Yellow> 1,500 pages <sup>1 2 5</sup> 3,500 pages <sup>1 2 6</sup> 6,000 pages <sup>1 2 7</sup>	See page 42.	TN-320BK <sup>5</sup> , TN-325BK <sup>6</sup> , TN-328BK <sup>7</sup> , TN-320C <sup>5</sup> , TN-325C <sup>6</sup> , TN-328C <sup>7</sup> , TN-320M <sup>5</sup> , TN-325M <sup>6</sup> , TN-328M <sup>7</sup> , TN-320Y <sup>5</sup> , TN-325Y <sup>6</sup> , TN-328Y <sup>7</sup>
Replace Parts Drum Unit Drum Stop	Drum unit	25,000 pages <sup>1 3 4</sup>	See page 49.	DR-320CL
Replace Parts Belt Unit	Belt unit	50,000 pages <sup>1</sup>	See page 54.	BU-300CL
Replace WT Box	Waste toner box	50,000 pages <sup>1</sup>	See page 60.	WT-300CL
Replace Parts Fuser Unit	Fuser unit	100,000 pages <sup>1</sup>	Call your Brother dealer for a replacement fuser unit.	
Replace Parts Laser Unit	Laser unit	100,000 pages <sup>1</sup>	Call your Brother dealer for a replacement laser unit.	
Replace Parts PF Kit 1	Paper feeding kit 1	100,000 pages <sup>1</sup>	Call your Brother dealer for a replacement paper feeding kit 1.	
Replace Parts PF Kit 2	Paper feeding kit 2	100,000 pages <sup>1</sup>	Call your Brother dealer for a replacement paper feeding kit 2.	
Replace Parts PF Kit MP	Paper feeding kit MP	50,000 pages <sup>1</sup>	Call your Brother dealer for a replacement paper feeding kit MP.	

<sup>1</sup> A4 or Letter size single-sided pages.

<sup>2</sup> Approx. cartridge yield is declared in accordance with ISO/IEC 19798.

<sup>3</sup> 1 page per job.

<sup>4</sup> Drum life is approximate and may vary by type of use.

<sup>5</sup> Standard toner cartridge

<sup>6</sup> High capacity toner cartridge

<sup>7</sup> Super high capacity toner cartridge

**Note**

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- Go to <http://www.brother.com/original/index.html> for instructions on how to return your used consumable items to the Brother collection program. If you choose not to return your used consumable, please discard the used consumable according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office. (See *EU Directive 2002/96/EC and EN 50419* in the *Safety and Legal Booklet*.)
  - We recommend placing used consumable items on a piece of paper to prevent accidentally spilling or scattering the material inside.
  - If you use paper that is not a direct equivalent for the recommended paper, the life of consumable items and machine parts may be reduced.
  - The projected life of the toner cartridges is based on ISO/IEC 19798. Frequency of replacement will vary depending on the complexity of printed pages, percentage of coverage and type of media used.
-

## Replacing a Toner cartridge

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**Model Name:** For the model name of toner cartridges, see *Replacing the consumable items* on page 38.

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

The toner cartridges that come supplied with the machine are standard toner cartridges.

<sup>1</sup> Approx. cartridge yield is declared in accordance with ISO/IEC 19798.



### Note

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- It is a good idea to keep a new toner cartridge ready for use when you see the **Toner Low** warning.
  - To ensure high quality printing, we recommend that you use only Brother Original toner cartridges. When you want to buy toner cartridges, please call your Brother dealer.
  - We recommend that you clean the machine when you replace the toner cartridge. See *Cleaning and Checking the machine* on page 67.
  - If you change the print density setting for lighter or darker printing, the amount of toner used will change.
  - Wait to unpack the toner cartridge until immediately before you put it into the machine.
- 

## Toner Low

If the LCD shows **Toner Low**

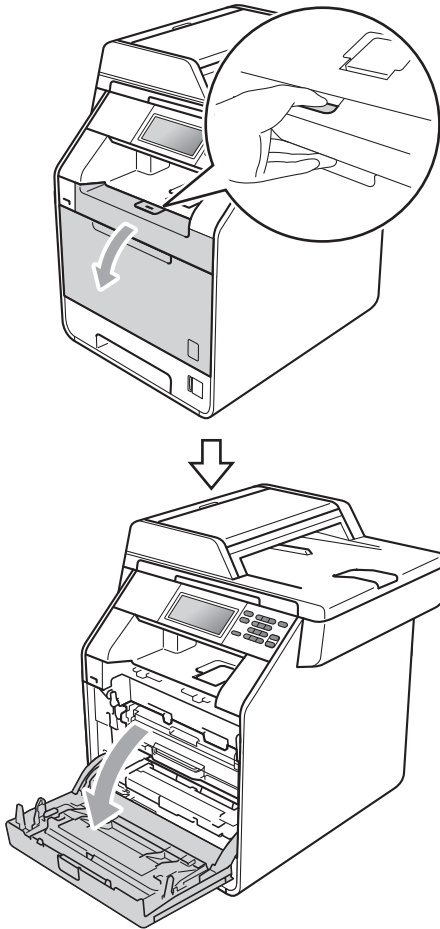
**Prepare New Toner Cartridge.X**, buy a new toner cartridge and have it ready before you get a **Replace Toner** message. The LCD shows the toner colour that is near the end of its life (Cyan, Magenta, Yellow or Black).

## Replace Toner

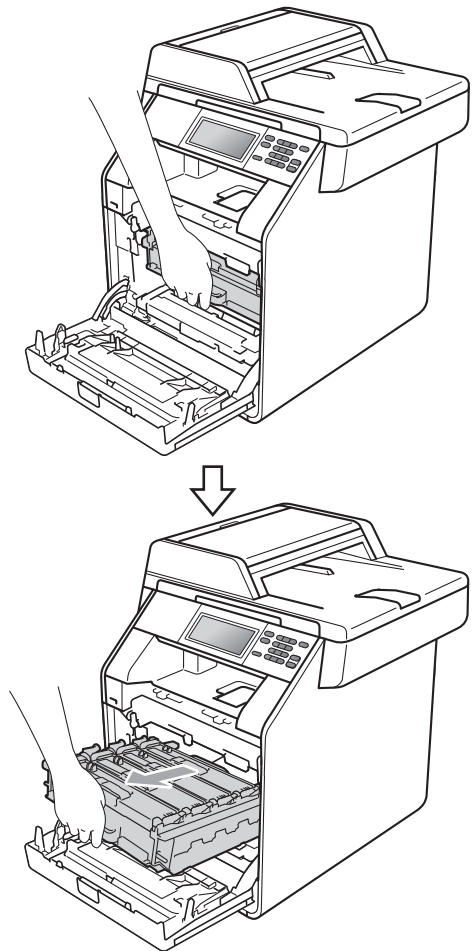
When the LCD shows **Replace Toner** the machine will stop printing until you replace the toner cartridge. The message on the LCD will indicate which colour you need to replace. A new or unused Brother Original toner cartridge will reset the **Replace Toner** mode.

## Replacing the toner cartridges

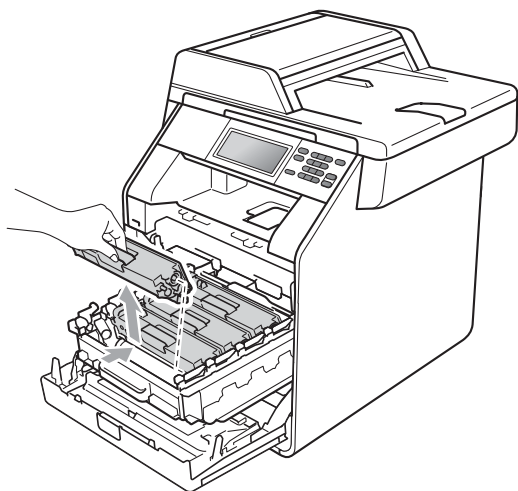
- 1 Make sure that the machine is turned on.
- 2 Press the front cover release button and then open the front cover.



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



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



## ! WARNING

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

DO NOT use cleaning materials that contain ammonia, alcohol, any type of spray or any type of flammable substance to clean the inside or outside of the machine. Doing this may cause a fire or electrical shock.

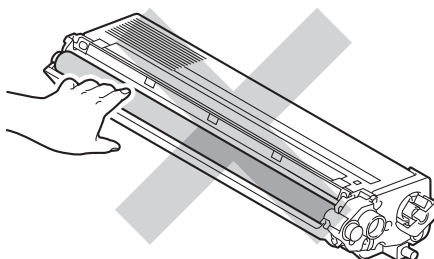
See *To use the product safely* in the *Safety and Legal Booklet* for how to clean the machine.



Be careful not to inhale toner.

## ! IMPORTANT

- We recommend that you place the drum unit and/or the toner cartridge on a clean, flat, level, stable surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- Handle the toner cartridge carefully. If toner scatters on your hands or clothes, wipe or wash it off with cold water.
- To avoid print quality problems, DO NOT touch the shaded parts shown in the illustration.

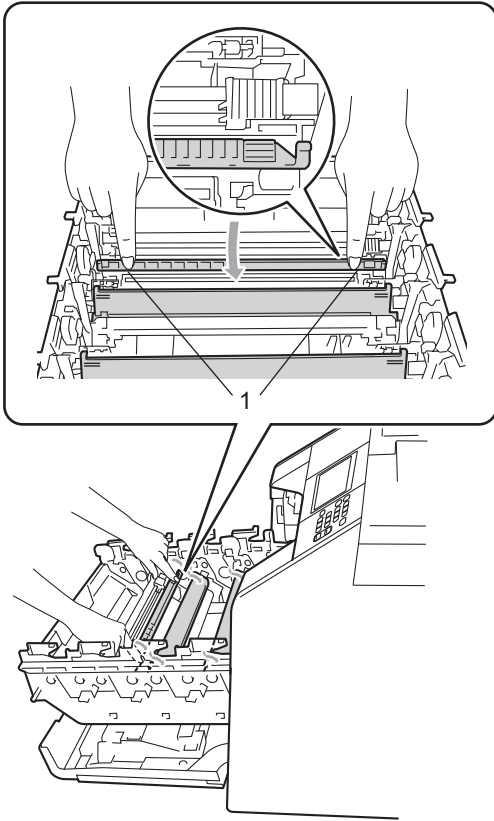


## Note

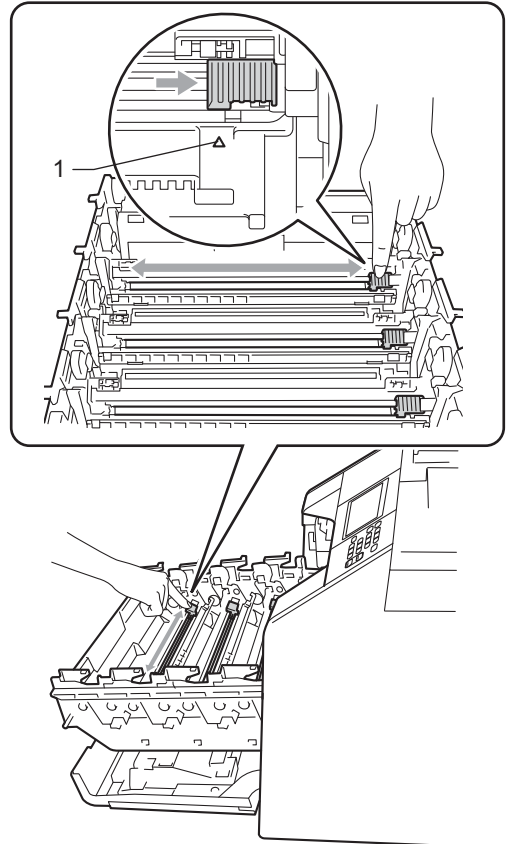
- Be sure to seal up the toner cartridge tightly in a suitable bag so that toner powder does not spill out of the cartridge.
- Go to <http://www.brother.com/original/index.html> for instructions on how to return your used consumable items to the Brother collection program. If you choose not to return your used consumable, please discard the used consumable according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office. (See *EU Directive 2002/96/EC* and *EN 50419* in the *Safety and Legal Booklet*)



- 5 Push to release the latches of the corona wire cover (1), and then open the cover.



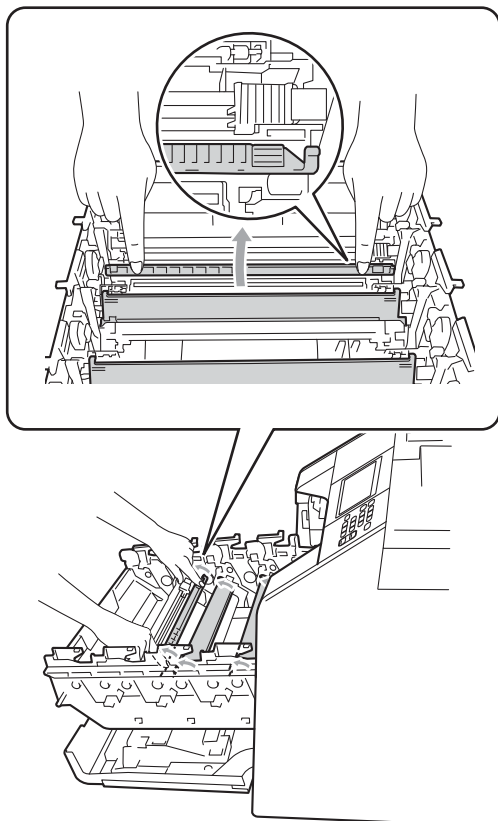
- 6 Clean the corona wire inside the drum unit by gently sliding the green tab from left to right and right to left several times.



#### Note

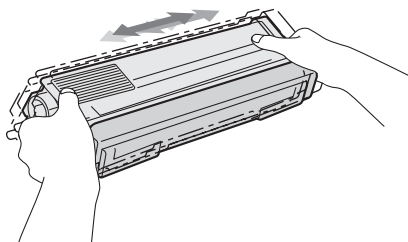
Be sure to return the tab to the home position (▲) (1). If you do not, printed pages may have a vertical stripe.

- 7 Close the corona wire cover.



- 8 Repeat steps 5 to 7 to clean each of three remaining corona wires.

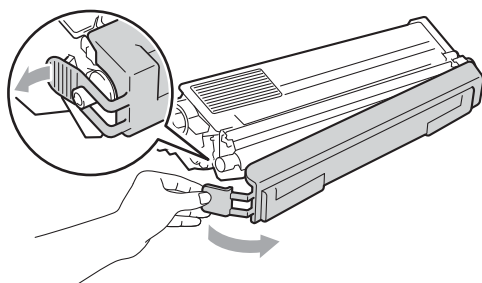
- 9 Unpack the new toner cartridge. Gently shake it from side to side several times to distribute the toner evenly inside the cartridge.



### ! IMPORTANT

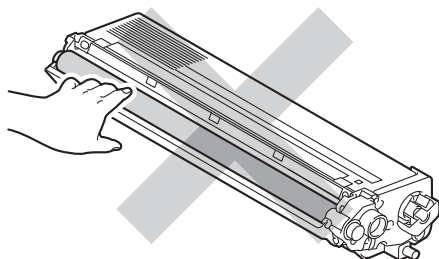
- Unpack the toner cartridge just before you put it in the machine. If a toner cartridge is left unpacked for a long time, the toner life will be shortened.
- If an unpacked drum unit is put in direct sunlight or room light, the unit may be damaged.
- Brother machines are designed to work with toner of a particular specification and will work to a level of optimum performance when used with Brother Original toner cartridges. Brother cannot guarantee this optimum performance if toner or toner cartridges of other specifications are used. Brother does not therefore recommend the use of cartridges other than Brother Original cartridges with this machine, or the refilling of empty cartridges with toner from other sources. If damage is caused to the drum unit or other part of this machine as a result of the use of toner or toner cartridges other than Brother Original products due to the incompatibility or lack of suitability of those products with this machine, any repairs required as a result may not be covered by the warranty.

- 10 Pull off the protective cover.

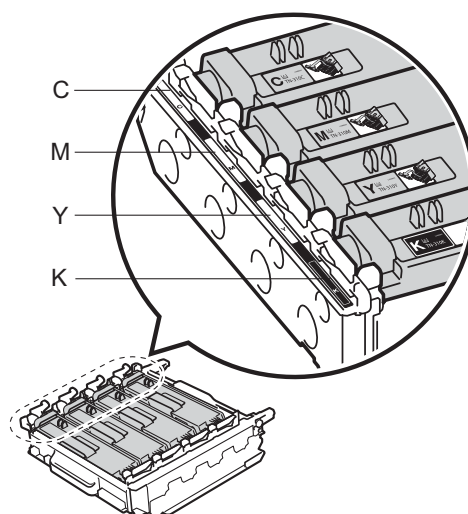
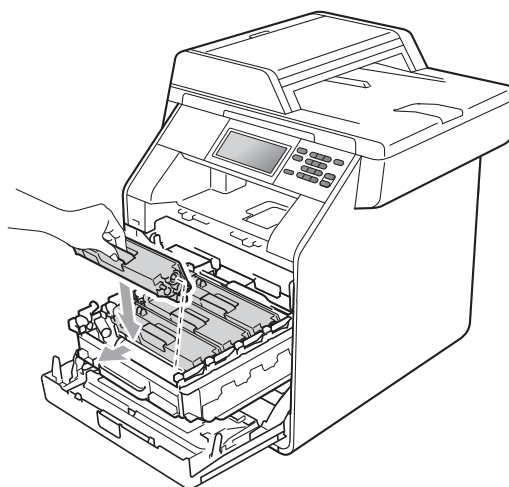


## ! IMPORTANT

Put the toner cartridge in the drum unit immediately after you have removed the protective cover. To prevent any degradation to the print quality, **DO NOT** touch the shaded parts shown in the illustrations.



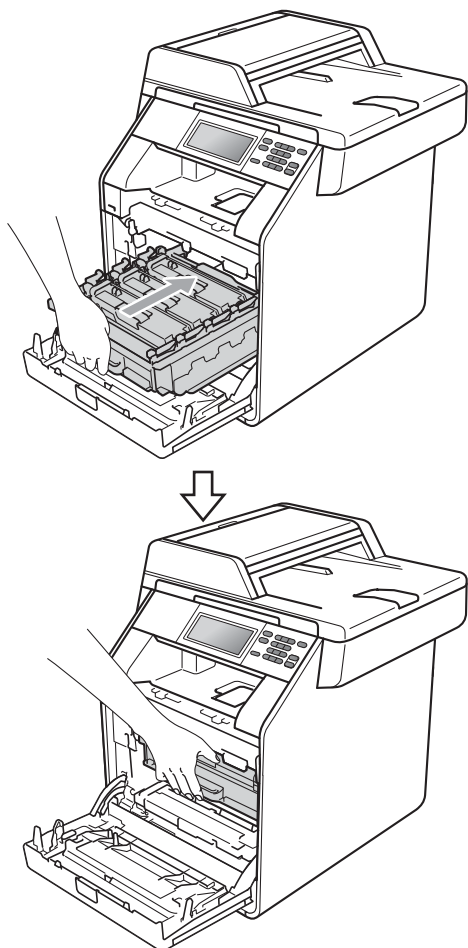
- 11 Hold the handle of the toner cartridge and slide the toner cartridge into the drum unit, then slightly pull it toward you until you hear it click into place. Make sure that you match the toner cartridge colour to the same colour label on the drum unit. Repeat this for all the toner cartridges.



C - Cyan  
Y - Yellow

M - Magenta  
K - Black

- 12 Push the drum unit in until it stops.



- 13 Close the front cover of the machine.



#### Note

After you replace a toner cartridge, DO NOT turn off the machine's power switch or open the front cover until the LCD clears the Please Wait message and returns to Ready mode.

## Replacing the drum unit

Model name: DR-320CL

A new drum unit can print approximately 25,000 A4 or Letter size single-sided pages.

### ! IMPORTANT

For best performance, use a Brother Original drum unit and Brother Original toner units. Printing with a third-party drum unit or toner unit may reduce not only the print quality but also the quality and life of the machine itself. Warranty coverage may not apply to problems caused by the use of a third-party drum unit or toner unit.

### Drum Error

The corona wires have become dirty. Clean the corona wires in the drum unit. (See *Cleaning the corona wires* on page 73.)

If you cleaned the corona wires and Drum Error was not cleared then the drum unit is at the end of its life. Replace the drum unit with a new one.

### Replace Drum

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

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

### Drum Stop

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

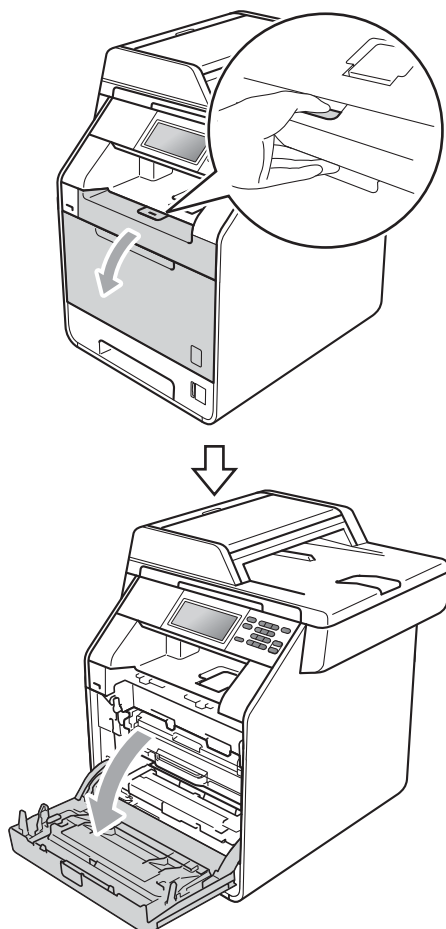
After replacement, reset the drum counter by following the instructions included with the new drum unit.

## Replacing the drum unit

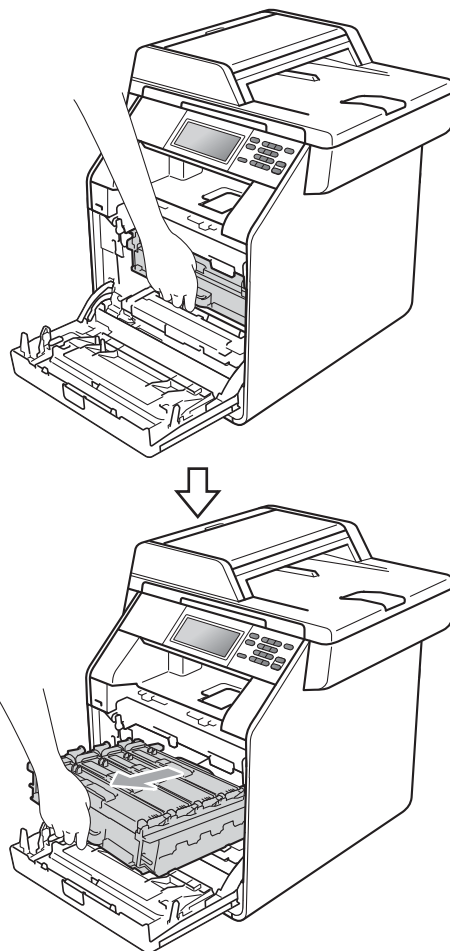
### ! IMPORTANT

- While removing the drum unit, handle it carefully because it may contain toner. If toner scatters on your hands or clothes, wipe or wash it off with cold water.
- Every time you replace the drum unit, clean the inside of the machine. (See *Cleaning and Checking the machine* on page 67.)

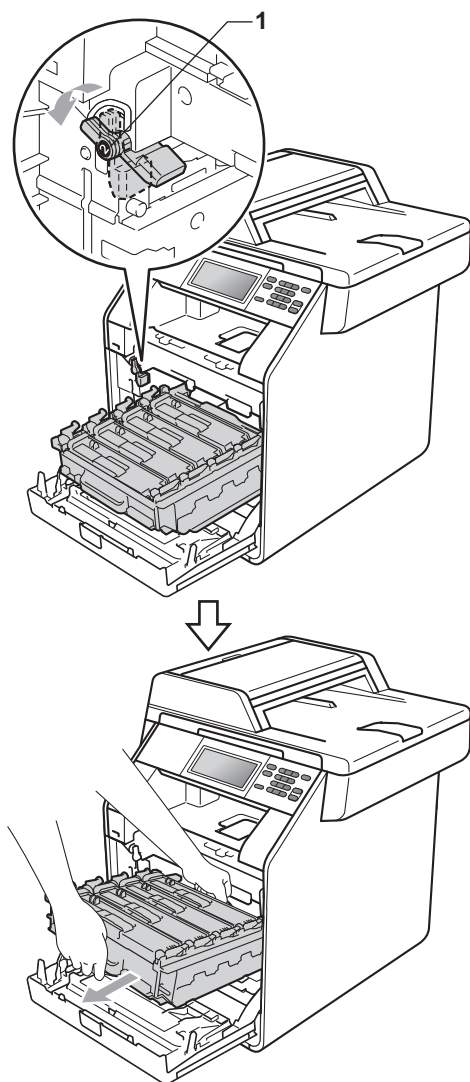
- 1 Make sure that the machine is turned on.
- 2 Press the front cover release button and then open the front cover.



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

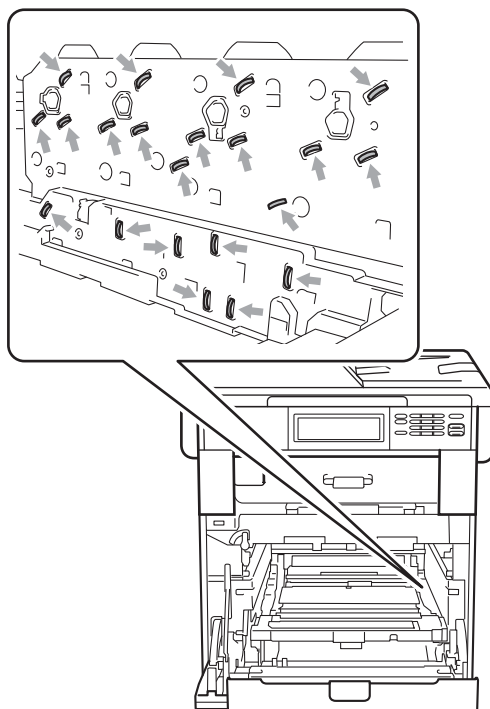


- 4 Turn the green lock lever (1) at the left of the machine anticlockwise to the release position. Holding the green handles of the drum unit, lift the front of the drum unit and remove it from the machine.



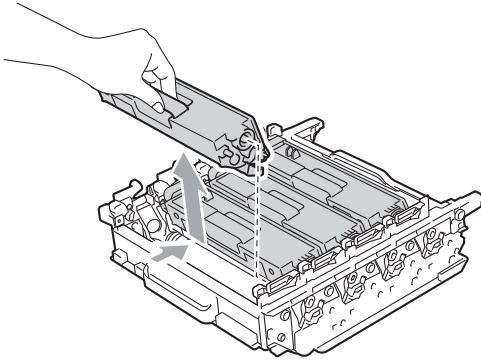
## ! IMPORTANT

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



- Hold the green handles of the drum unit when you carry it. DO NOT hold the sides of the drum unit.

- 5 Hold the handle of the toner cartridge and slightly push it to unlock it. Then pull it out of the drum unit. Repeat this for all the toner cartridges.



## ! WARNING

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

DO NOT use cleaning materials that contain ammonia, alcohol, any type of spray, or any type of flammable substance to clean the outside or inside of the machine. Doing this may cause a fire or electrical shock.

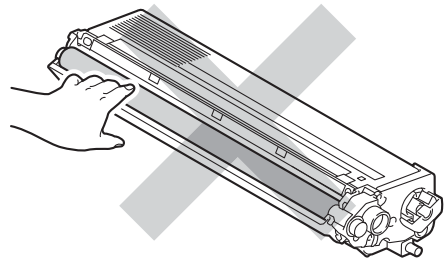
See *To use the product safely* in the *Safety and Legal Booklet* for how to clean the machine.



Be careful not to inhale toner.

## ! IMPORTANT

- Handle the toner cartridge carefully. If toner scatters on your hands or clothes, wipe or wash it off with cold water.
- We recommend that you place the drum unit and/or the toner cartridge on a clean, flat surface with a sheet of disposable paper or cloth underneath it in case you accidentally spill or scatter toner.
- To avoid print quality problems, DO NOT touch the shaded parts shown in the illustrations.

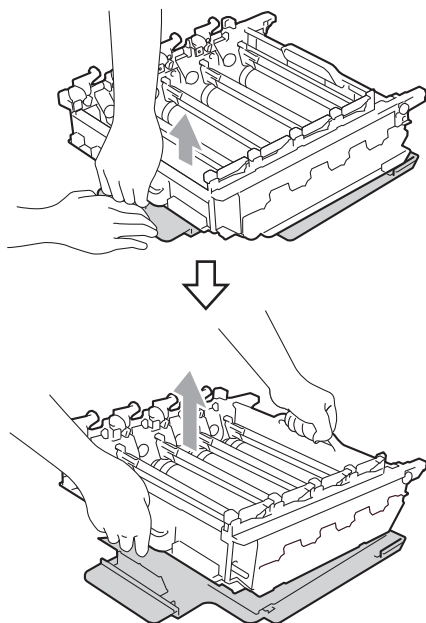


## Note

- Be sure to seal up the used drum unit tightly in a bag so that toner powder does not spill out of the unit.
- Go to <http://www.brother.com/original/index.html> for instructions on how to return your used consumable items to the Brother collection program. If you choose not to return your used consumable, please discard the used consumable according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office. (See *EU Directive 2002/96/EC* and *EN 50419* in the *Safety and Legal Booklet*)

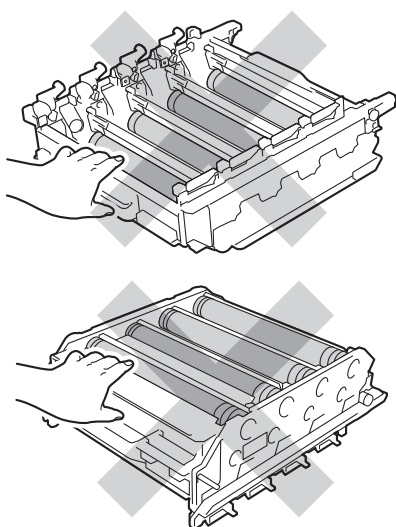


- 6 Unpack the new drum unit and remove the protective cover.



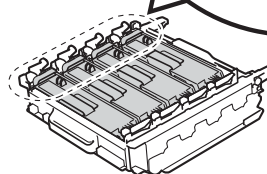
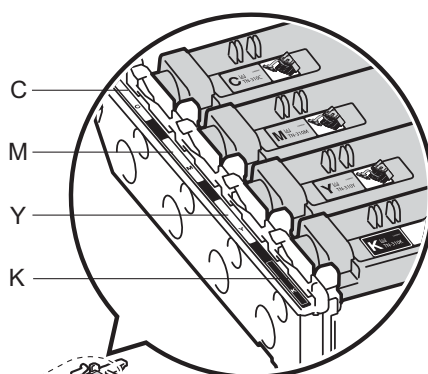
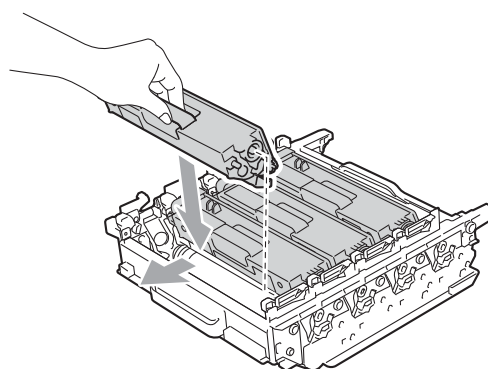
### ! IMPORTANT

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



- Unpack the drum unit just before you put it in the machine. Exposure to direct sunlight or room light may damage the drum unit.

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



C - Cyan

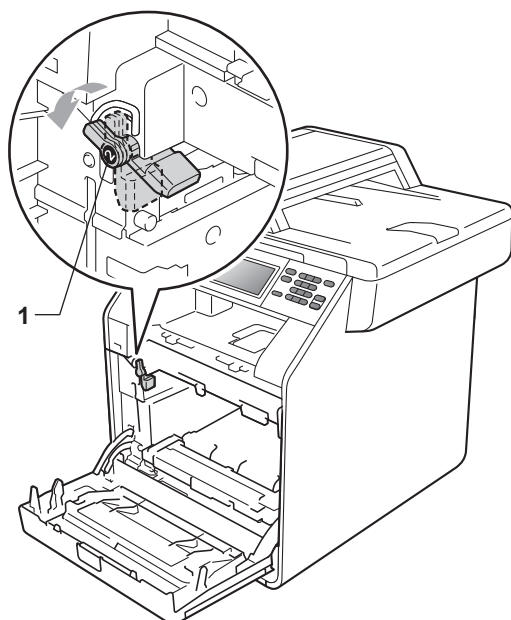
Y - Yellow

M - Magenta

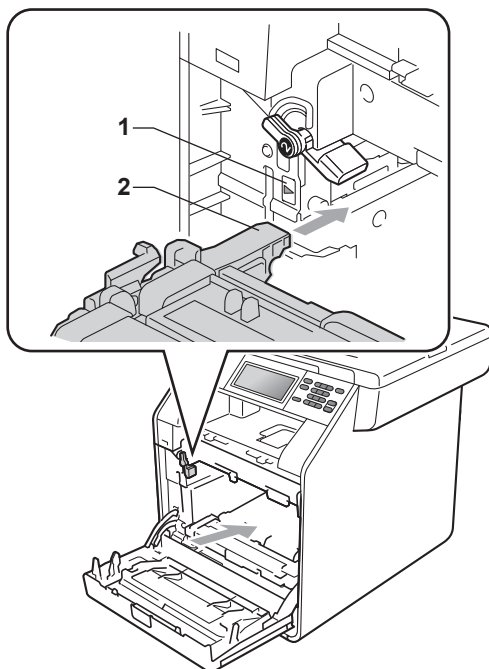
K - Black



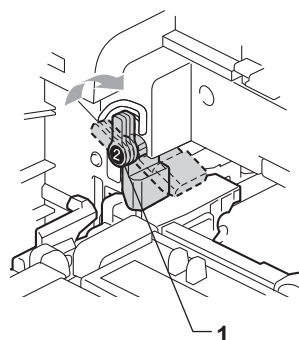
- 8 Make sure the green lock lever (1) is in the release position as shown in the illustration.



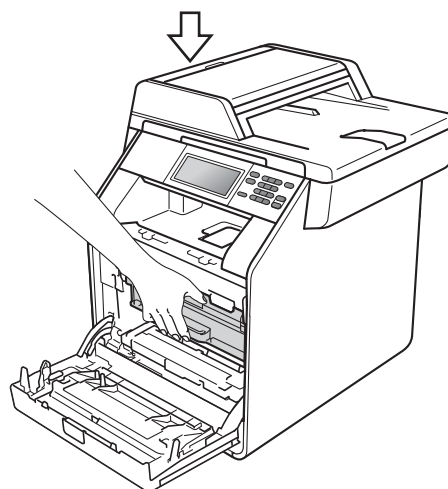
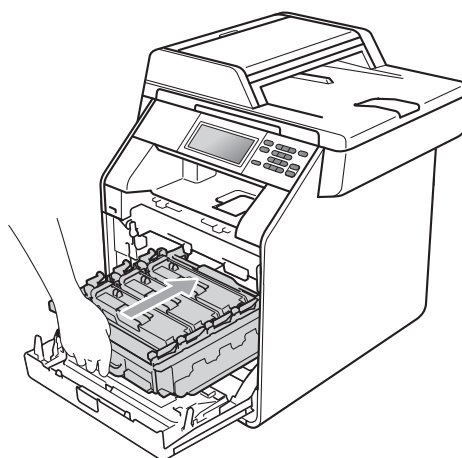
- 9 Match the guide ends (2) of the drum unit to the ► marks (1) on both sides of the machine, then gently slide the drum unit into the machine until it stops at the green lock lever.



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



- 11 Push the drum unit in until it stops.



- 12 Close the front cover of the machine.

## Resetting the drum counter

When you replace a drum unit with a new one, you will need to reset the drum counter by completing the following steps:

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to display  
Machine Info..  
Press Machine Info..
- 3 Press **Reset Menu**.
- 4 Press **Drum**.
- 5 The machine will display  
Reset Drum?.
- 6 Press **Yes**, and then press **Stop/Exit**.

## Replacing the belt unit

Model name: BU-300CL

A new belt unit can print approximately 50,000 A4 or Letter size single-sided pages.

### Replace Parts Belt Unit

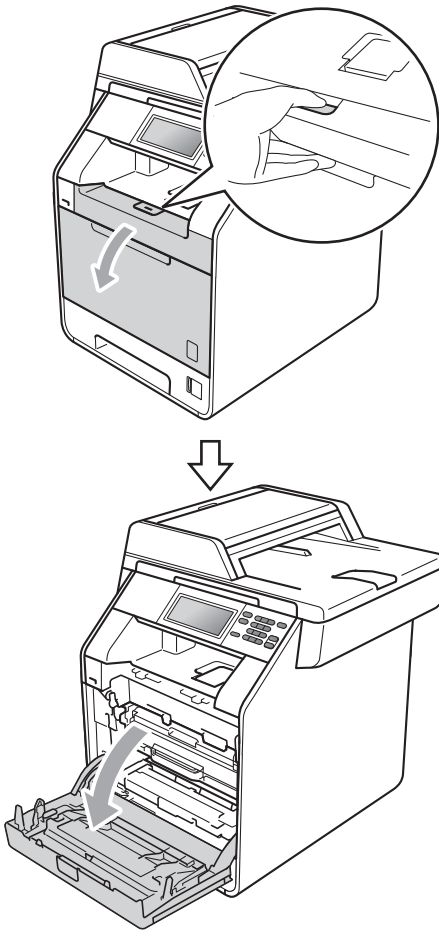
When the Replace Parts Belt Unit message appears on the LCD, you will need to replace the belt unit:

#### **! IMPORTANT**

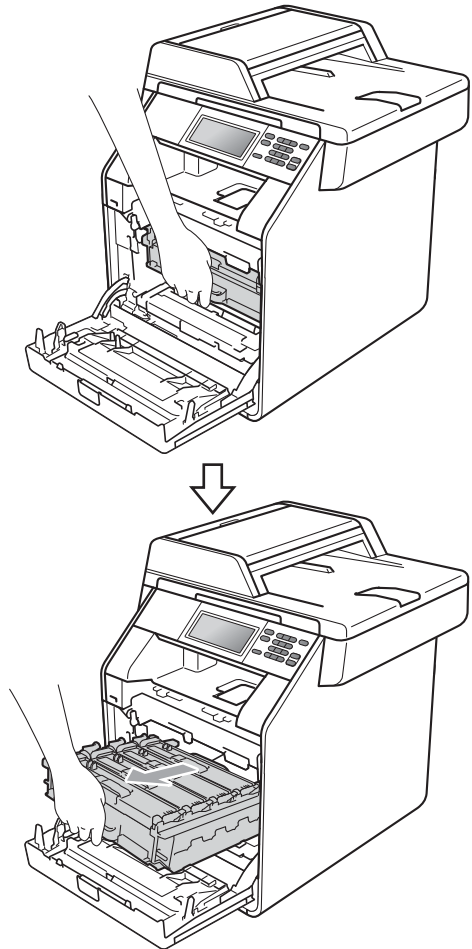
- DO NOT touch the surface of the belt unit. If you touch it, it could degrade print quality.
- Damage caused by incorrect handling of the belt unit may void your warranty.

- 1 Make sure that the machine is turned on.

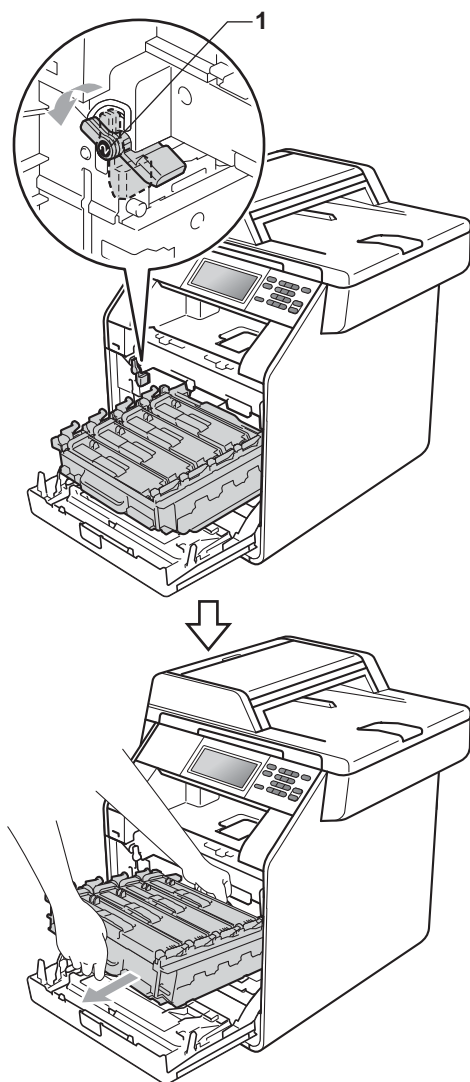
- 2 Press the front cover release button and then open the front cover.



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

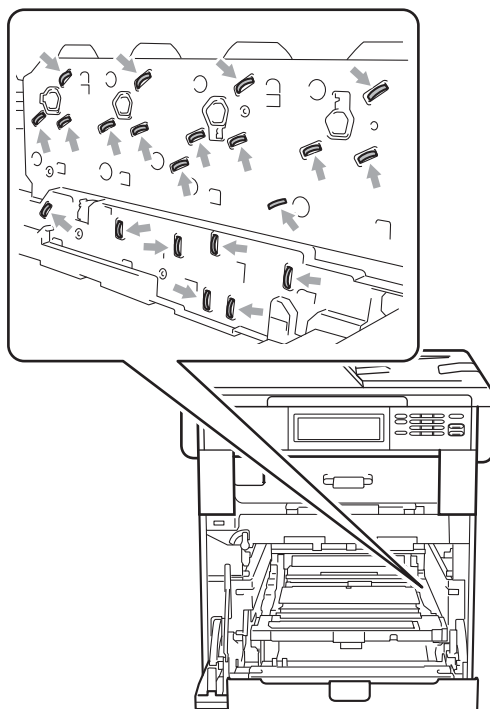


- 4 Turn the green lock lever (1) at the left of the machine anticlockwise to the release position. Holding the green handles of the drum unit, lift the front of the drum unit and remove it from the machine.



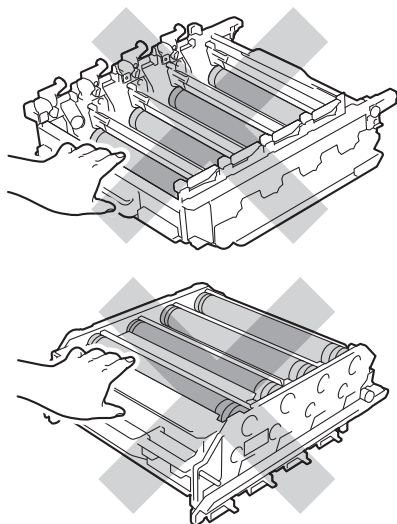
## ! IMPORTANT

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

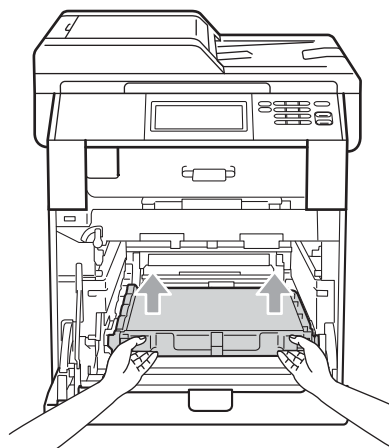


- Hold the green handles of the drum unit when you carry it. DO NOT hold the sides of the drum unit.

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

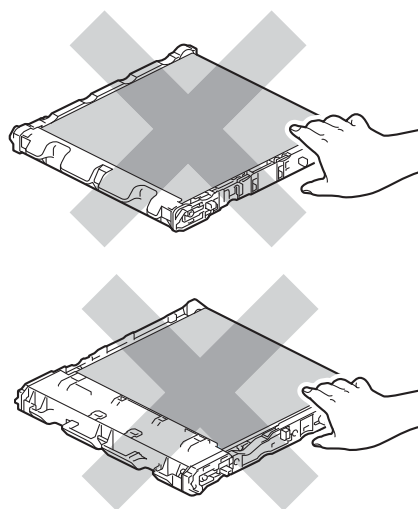


- 5 Hold the green handle of the belt unit with both hands and lift the belt unit up, then pull it out.

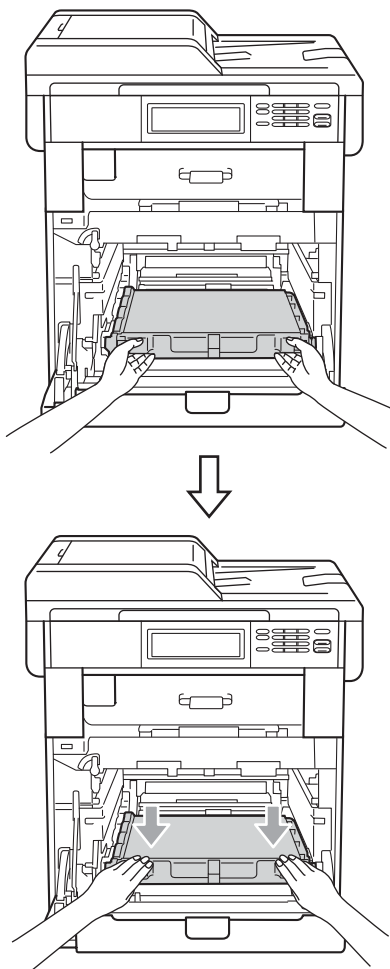


### ! IMPORTANT

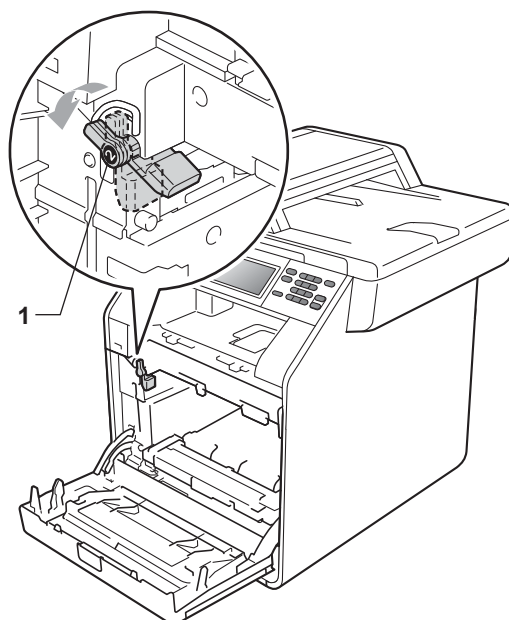
To avoid print quality problems, **DO NOT** touch the shaded parts shown in the illustration.



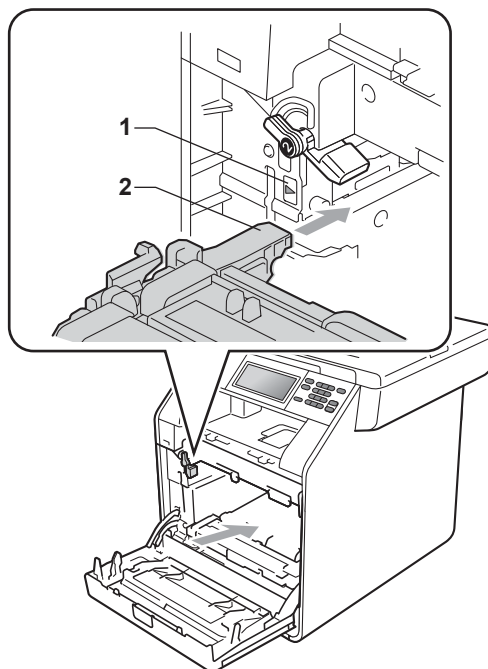
- 6 Unpack the new belt unit.
- 7 Put the new belt unit back in the machine. Make sure the belt unit is level and fits firmly into place.



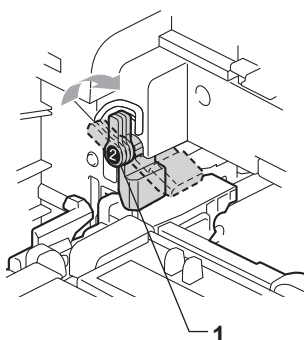
- 8 Make sure the green lock lever (1) is in the release position as shown in the illustration.



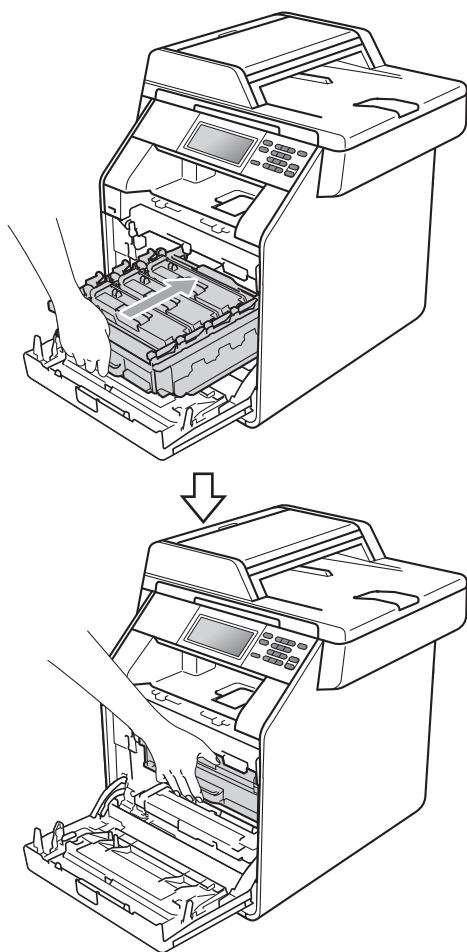
- 9 Match the guide ends (2) of the drum unit to the ► marks (1) on both sides of the machine, then gently slide the drum unit into the machine until it stops at the green lock lever.



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



- 11 Push the drum unit in until it stops.



- 12 Close the front cover of the machine.

## Resetting the belt unit counter

When you replace a belt unit with a new one, you will need to reset the belt unit counter by completing the following steps:

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to display **Machine Info..**  
Press **Machine Info..**
- 3 Press **Reset Menu**.
- 4 Press **Belt Unit**.
- 5 The machine will display **Reset Belt Unit?**.
- 6 Press **Yes**, and then press **Stop/Exit**.

## Replacing the waste toner box

Model name: WT-300CL

A new waste toner box can print approximately 50,000 A4 or Letter size single-sided pages.

### Replace Parts WT Box End Soon

If the LCD shows `Replace Parts WT Box End Soon`, it means the waste toner box is near the end of its life. Buy a new waste toner box and have it ready before you get a `Replace WT Box` message.

### Replace WT Box

When the `Replace WT Box` message appears on the LCD, you will need to replace the waste toner box:

#### **WARNING**

DO NOT put the waste toner box into a fire. It could explode.

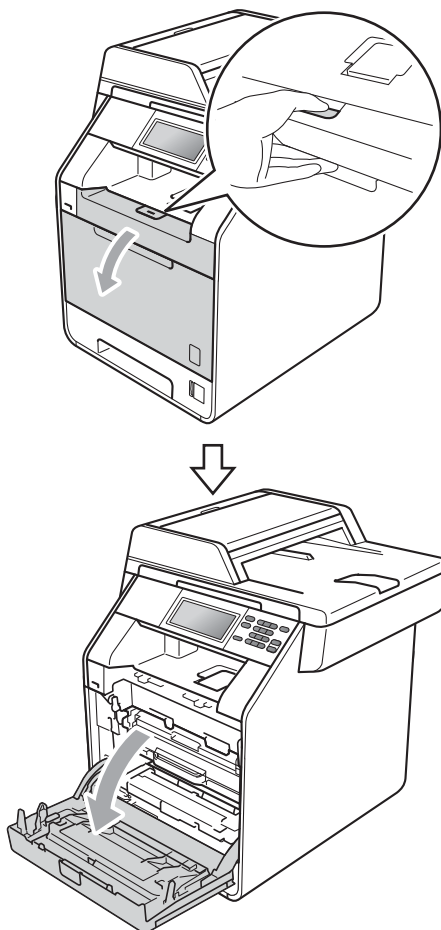
Be careful not to spill the toner. DO NOT inhale or allow it to get into your eyes.

#### **IMPORTANT**

DO NOT reuse the waste toner box.

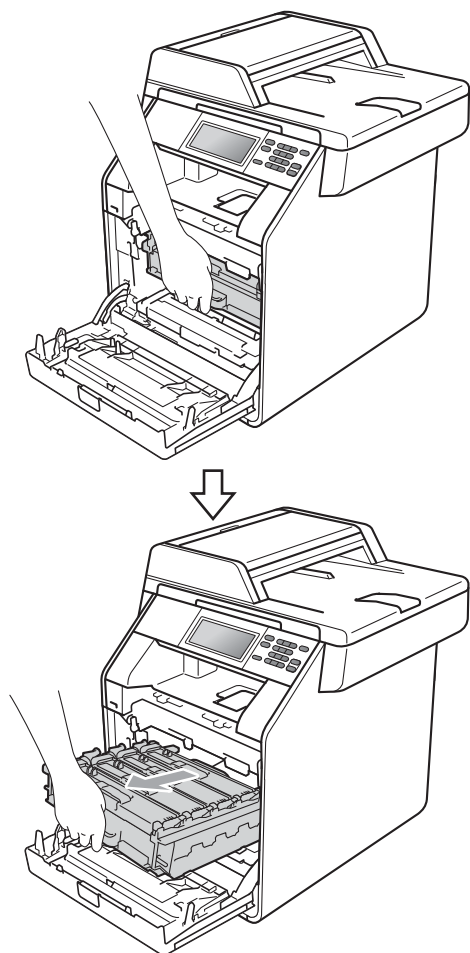
- 1 Make sure that the machine is turned on.

- 2 Press the front cover release button and then open the front cover.

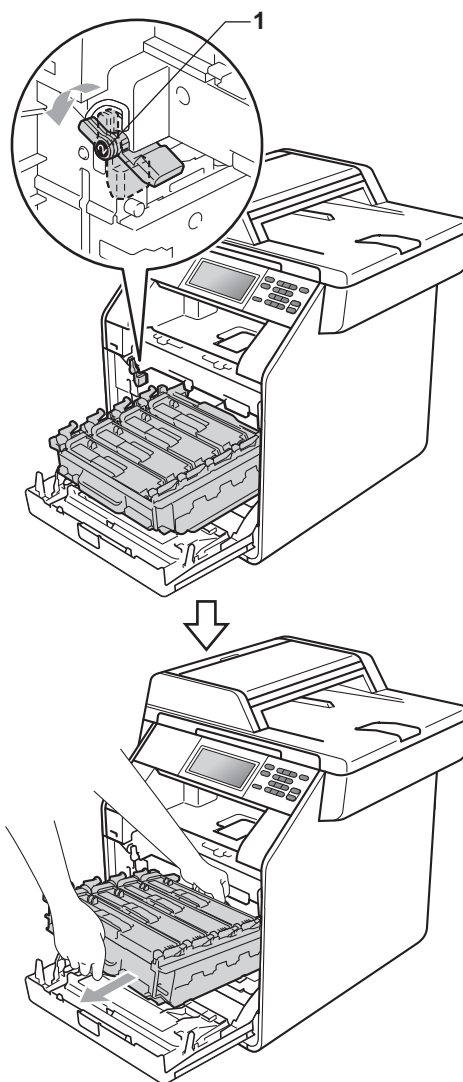




- 3 Hold the green handle of the drum unit. Pull the drum unit out until it stops.

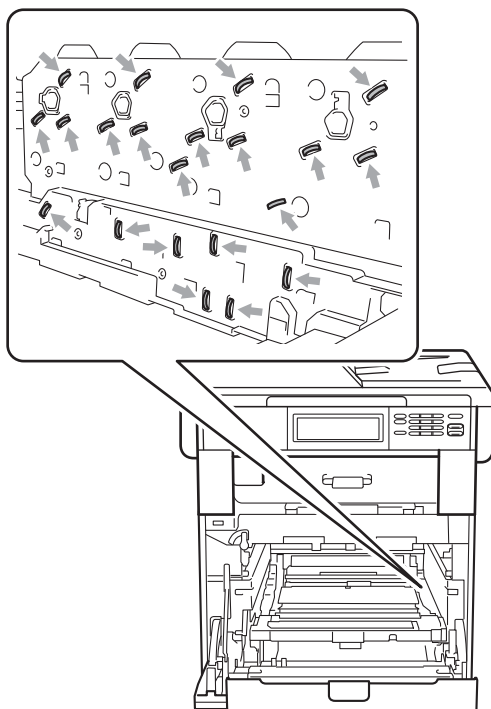


- 4 Turn the green lock lever (1) at the left of the machine anticlockwise to the release position. Holding the green handles of the drum unit, lift the front of the drum unit and remove it from the machine.



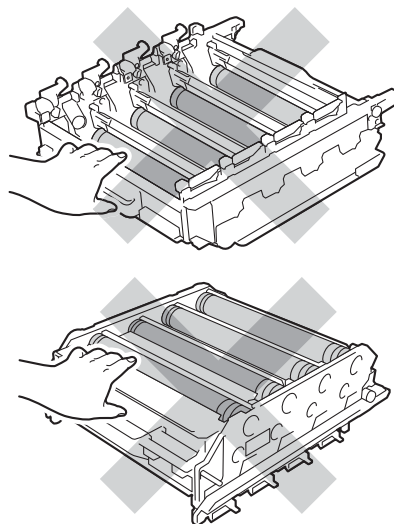
## ! IMPORTANT

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

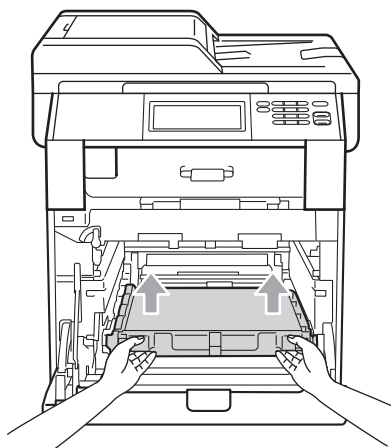


- Hold the green handles of the drum unit when you carry it. DO NOT hold the sides of the drum unit.

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

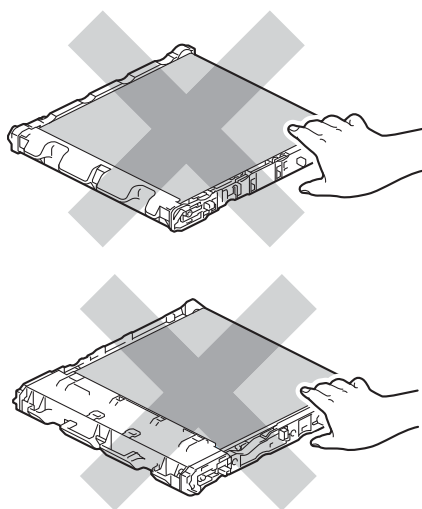


- 5 Hold the green handle of the belt unit with both hands and lift the belt unit up, then pull it out.

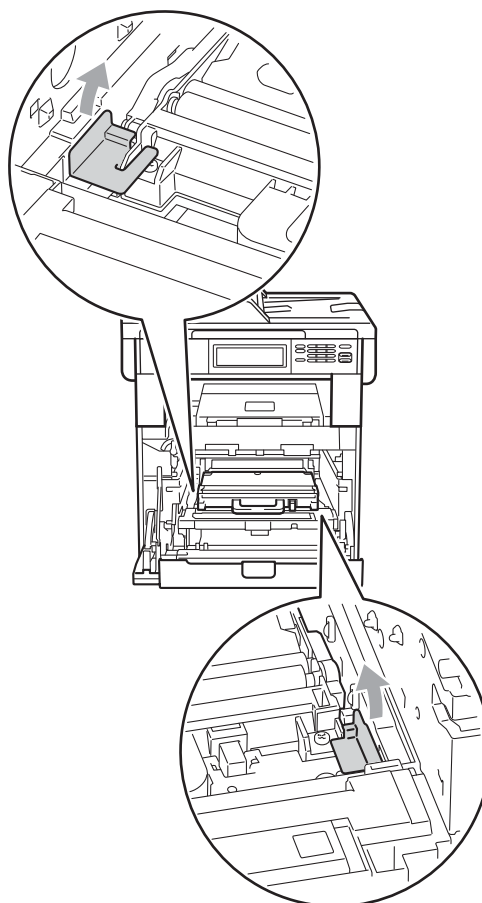


### ! IMPORTANT

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



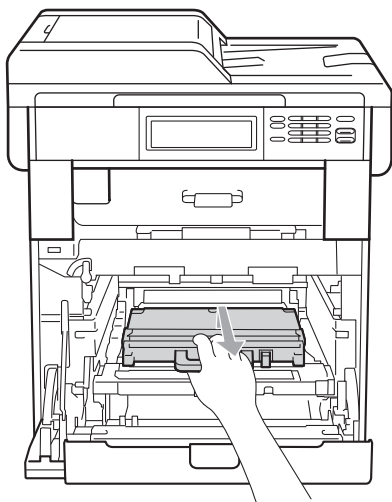
- 6 Remove the two pieces of orange packing material and discard them.



### Note

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

- 7 Hold the green handle of the waste toner box and remove the waste toner box from the machine.



## **⚠ CAUTION**

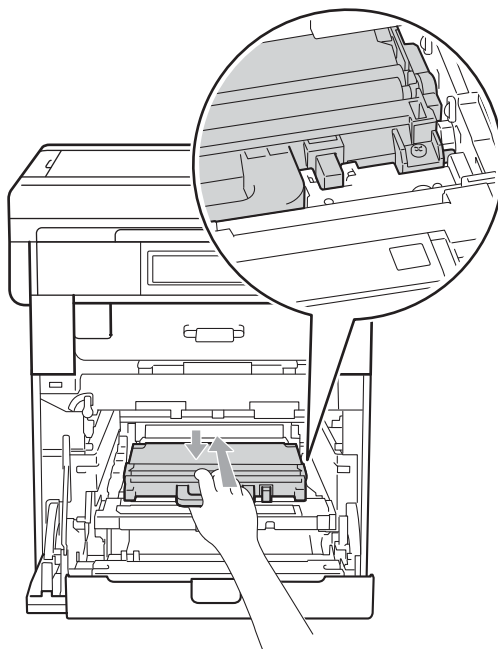
Handle the waste toner box carefully in case you accidentally spill or scatter toner. If toner scatters on your hands or clothes, wipe or wash it off with cold water.



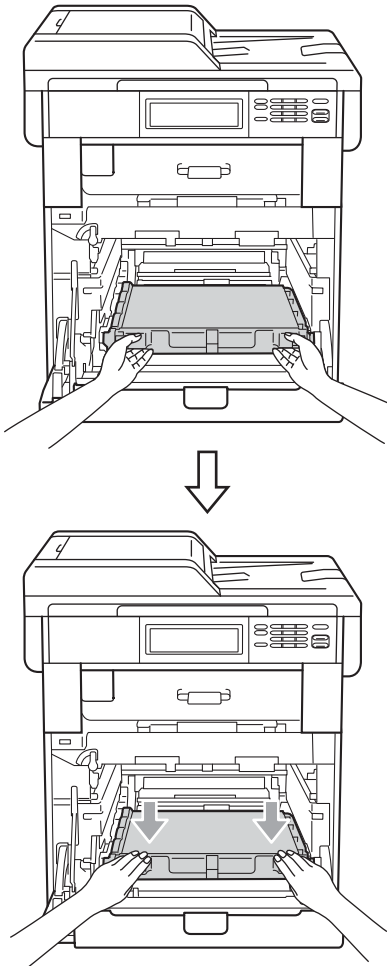
## **Note**

Discard the used waste toner box according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office.

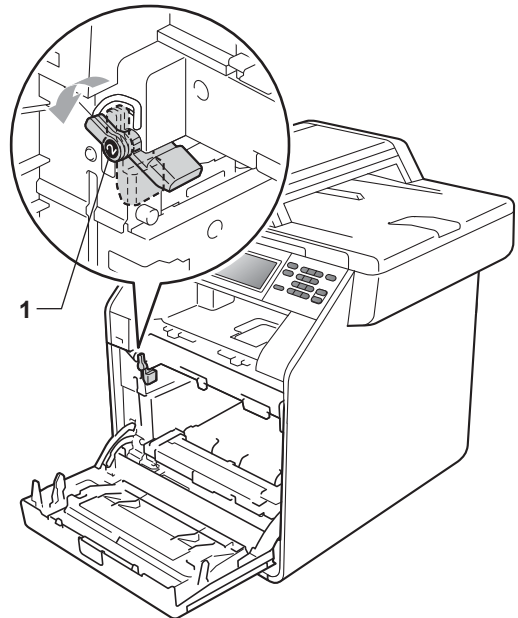
- 8 Unpack the new waste toner box and put the new waste toner box in the machine using the green handle. Make sure the waste toner box is level and fits firmly into place.



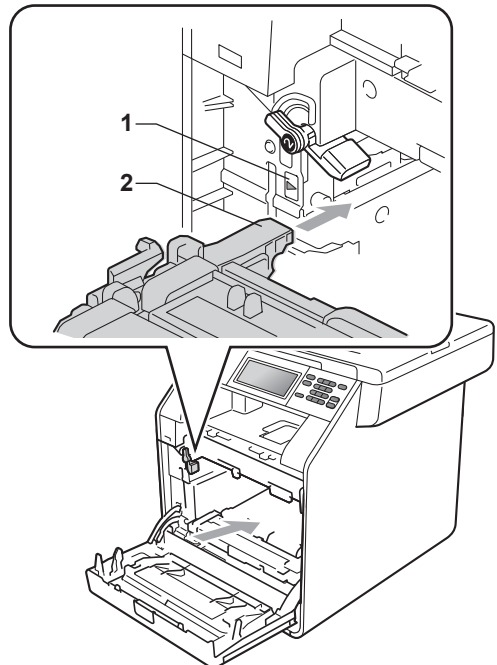
- 9** Put the belt unit back into the machine. Make sure the belt unit is level and fits firmly into place.



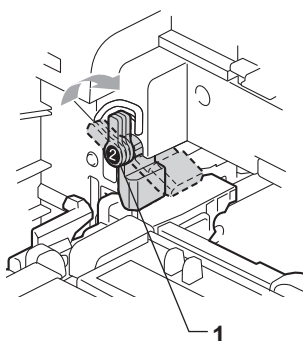
- 10** Make sure the green lock lever (1) is in the release position as shown in the illustration.



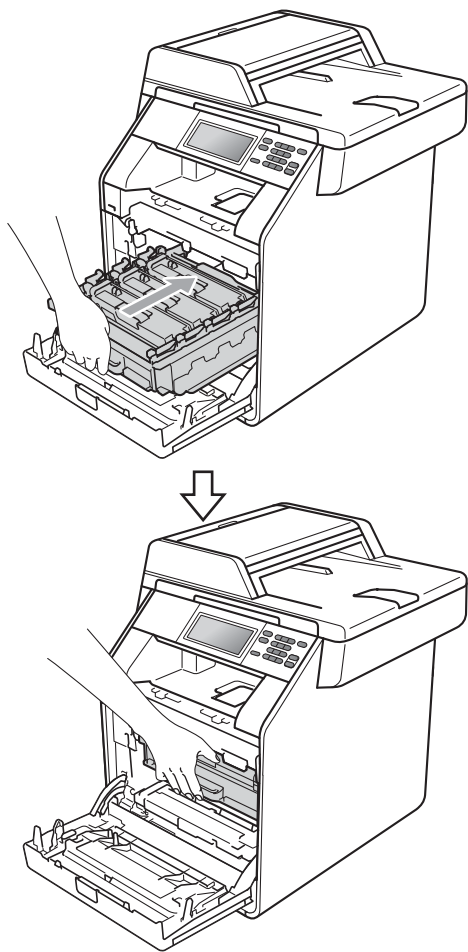
- 11** Match the guide ends (2) of the drum unit to the ► marks (1) on both sides of the machine, then gently slide the drum unit into the machine until it stops at the green lock lever.



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



- 13 Push the drum unit in until it stops.



- 14 Close the front cover of the machine.

## Cleaning and Checking the machine

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

### WARNING

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



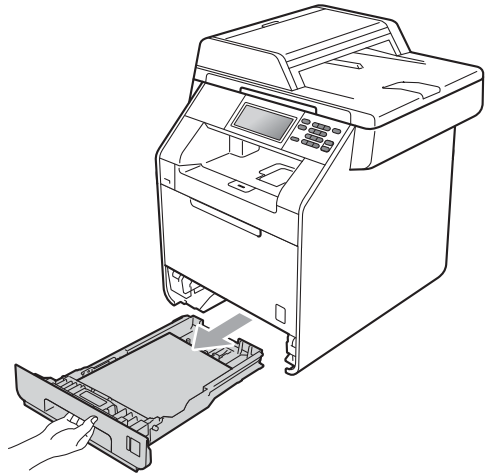
Be careful not to inhale toner.

### IMPORTANT

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

## Cleaning the outside of the machine

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

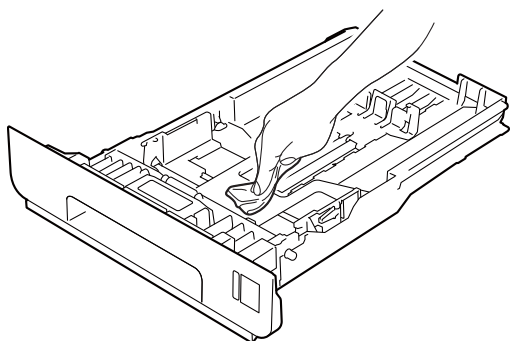


- 3 Wipe the outside of the machine with a dry, lint-free soft cloth to remove dust.



- 4 Remove any paper that is in the paper tray.

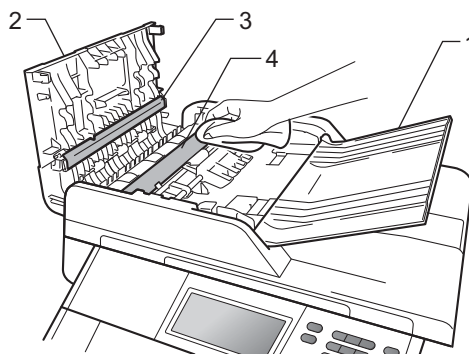
- 5 Wipe the inside and the outside of the paper tray with a dry, lint-free soft cloth to remove dust.



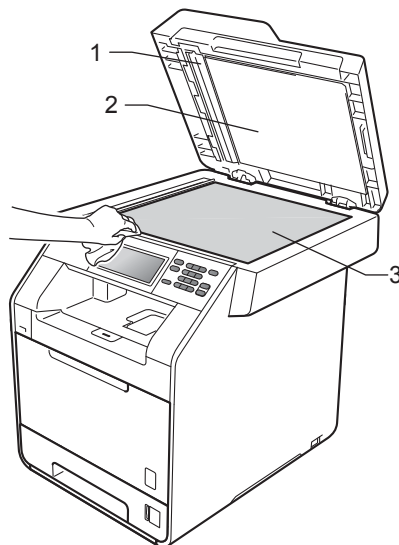
- 6 Re-load the paper and put the paper tray firmly back in the machine.
- 7 Plug the machine's power cord back into the electrical socket first and connect all cables. Turn on the machine.

## Cleaning the scanner glass

- 1 Turn off the machine. Disconnect all cables, and then unplug the power cord from the electrical socket.
- 2 Unfold the ADF document support (1) and then open the ADF cover (2). Clean the white bar (3) and the scanner glass strip (4) underneath it with a soft lint-free cloth moistened with water. Close the ADF cover (2) and fold the ADF document support (1).

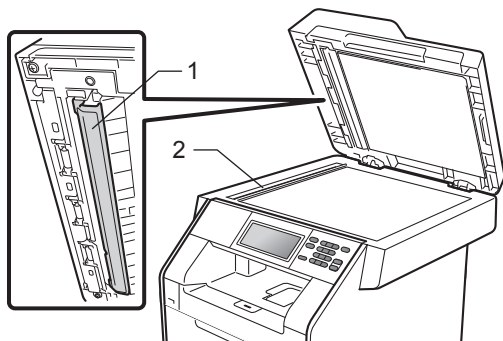


- 3 Lift the document cover (1). Clean the white plastic surface (2) and scanner glass (3) underneath it with a soft lint-free cloth moistened with water.





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



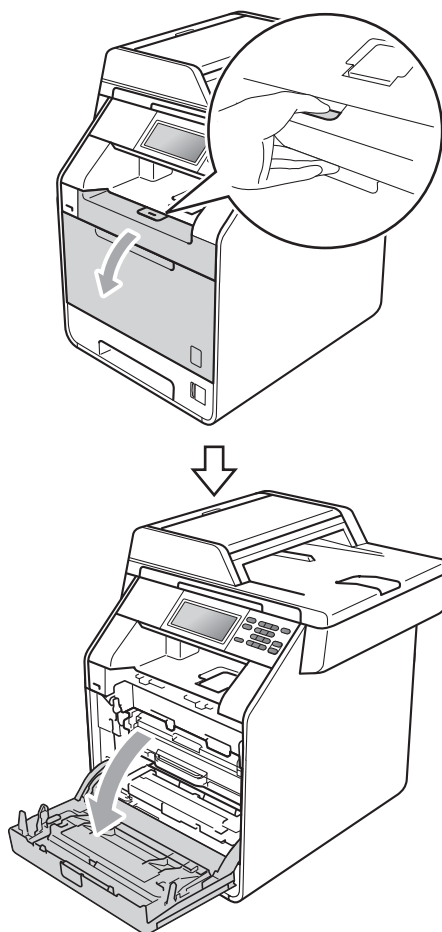
### Note

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

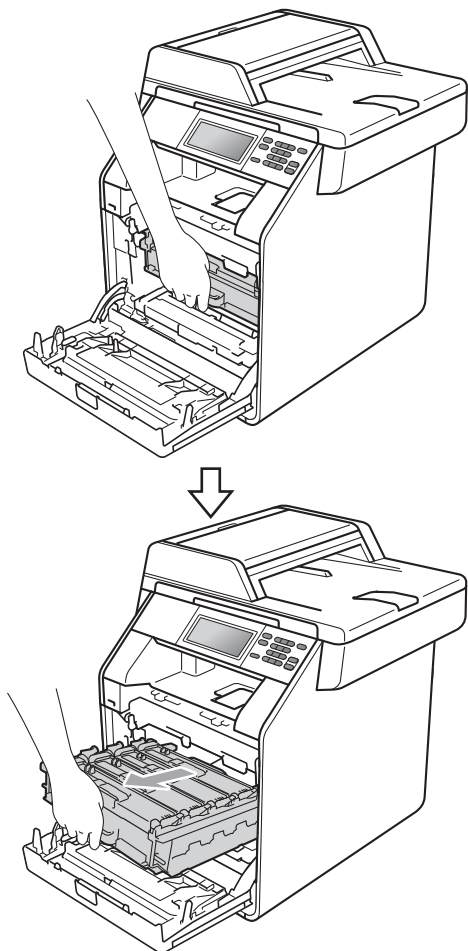
- 5 Plug the machine's power cord back into the electrical socket first and connect all cables. Turn on the machine.

## Cleaning the laser scanner windows

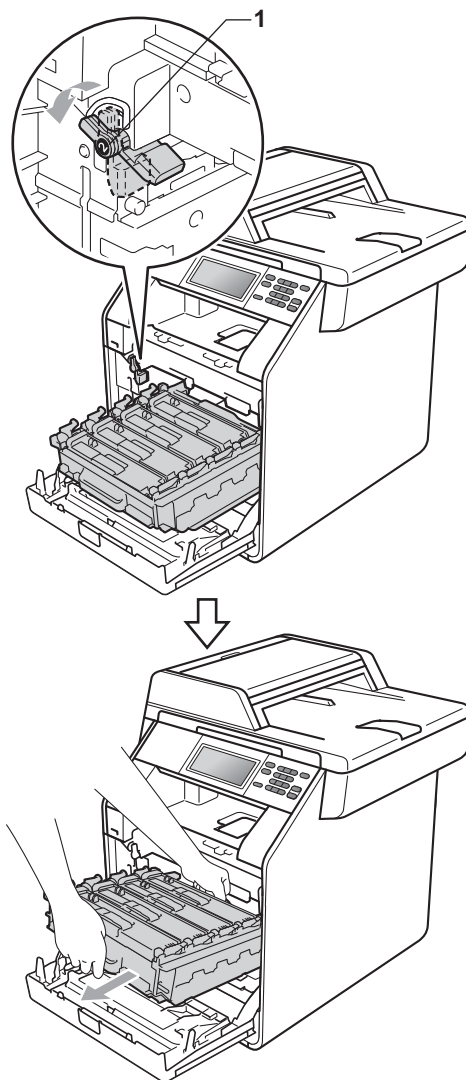
- 1 Turn off the machine. Disconnect all cables, and then unplug the power cord from the electrical socket.
- 2 Press the front cover release button and then open the front cover.



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

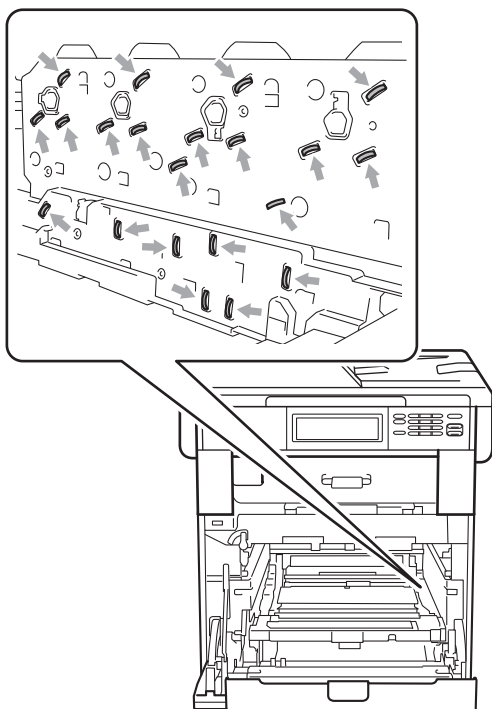


- 4 Turn the green lock lever (1) at the left of the machine anticlockwise to the release position. Holding the green handles of the drum unit, lift the front of the drum unit and remove it from the machine.



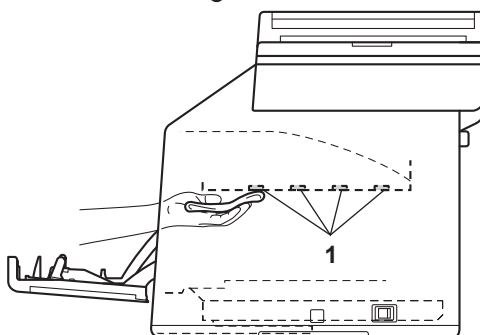
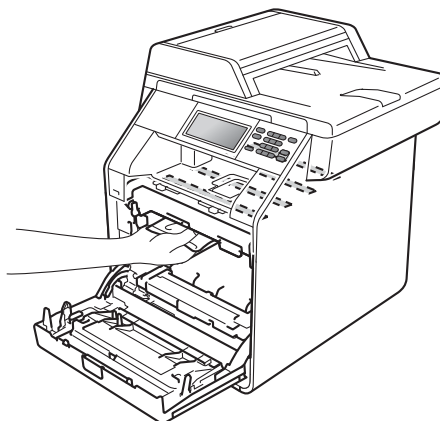
## ! IMPORTANT

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

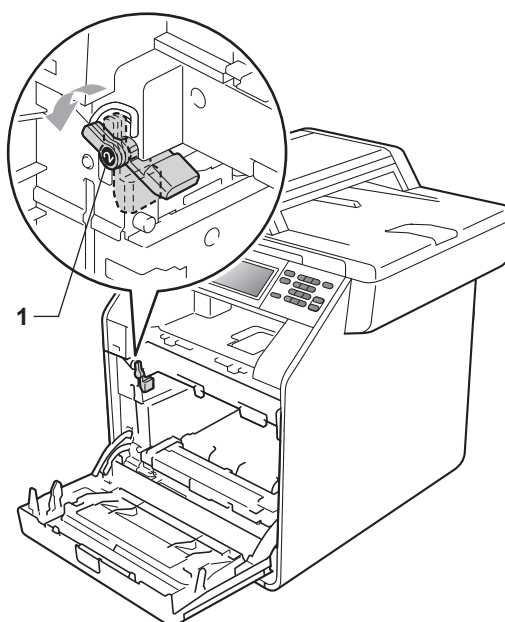


- Hold the green handles of the drum unit when you carry it. DO NOT hold the sides of the drum unit.

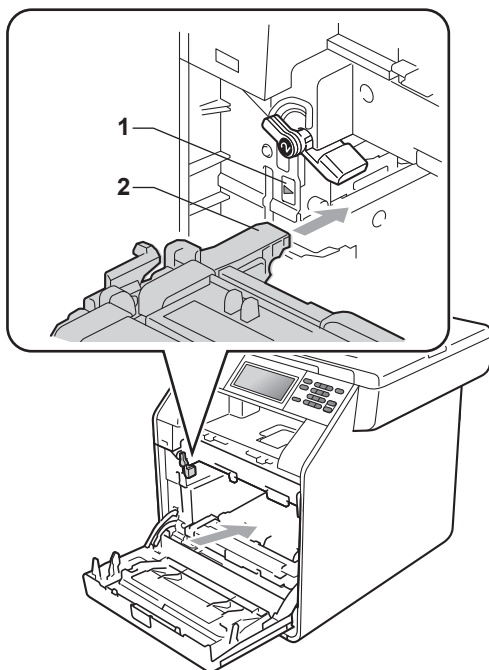
- 5 Wipe the four scanner windows (1) with a dry, lint-free cloth.



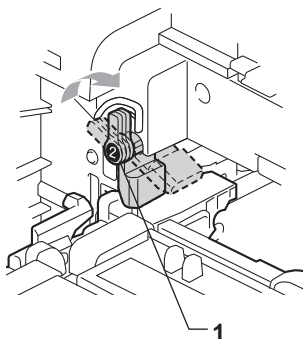
- 6 Make sure the green lock lever (1) is in the release position as shown in the illustration.



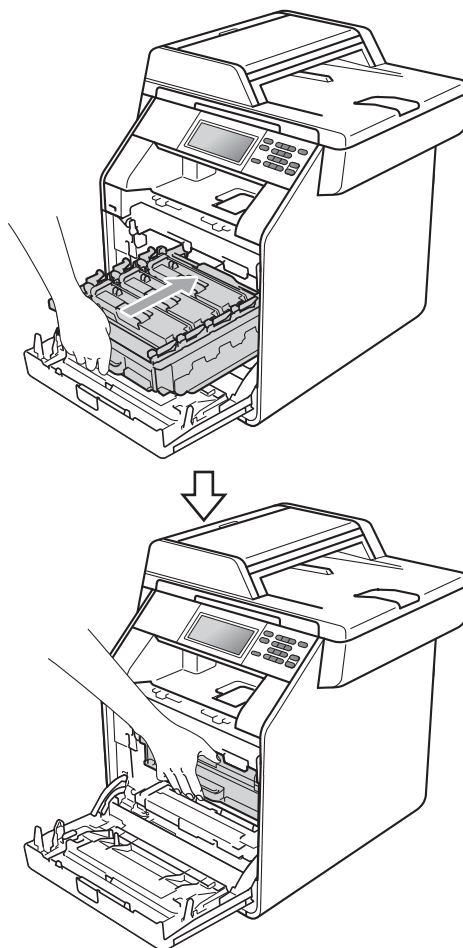
- 7 Match the guide ends (2) of the drum unit to the ► marks (1) on both sides of the machine, then gently slide the drum unit into the machine until it stops at the green lock lever.



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



- 9 Push the drum unit in until it stops.



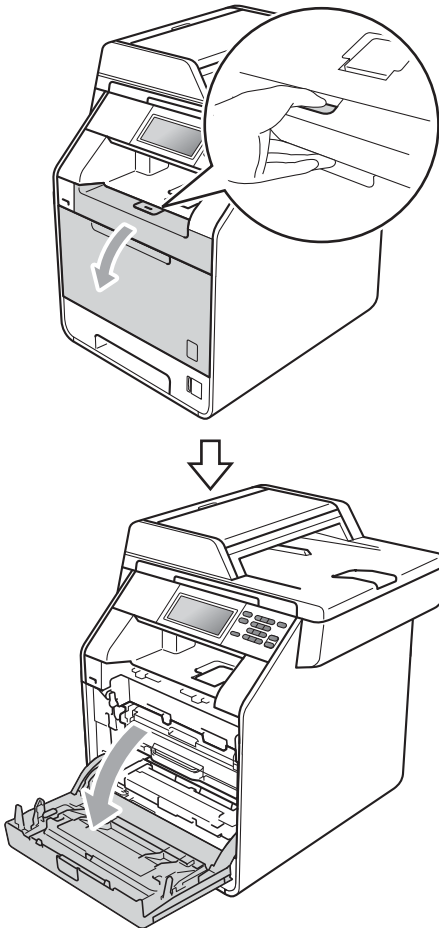
- 10 Close the front cover of the machine.

- 11 Plug the machine's power cord back into the electrical socket first and connect all cables. Turn on the machine.

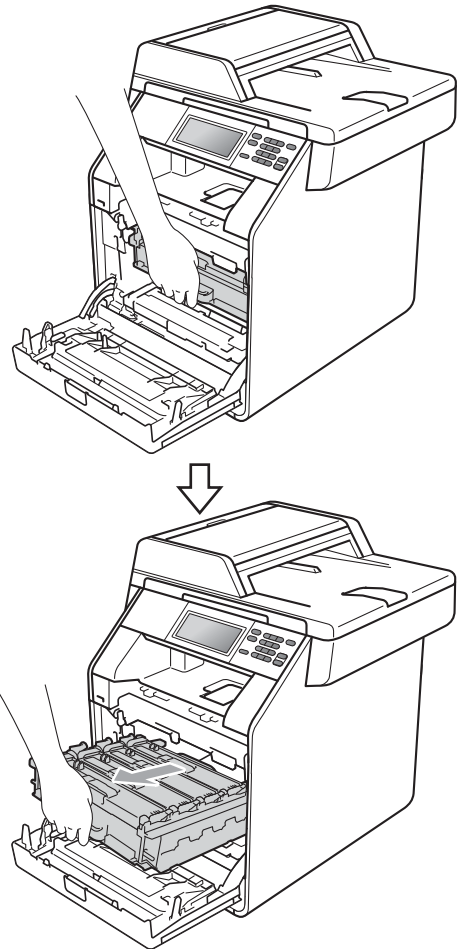
## Cleaning the corona wires

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

- 1 Press the front cover release button and then open the front cover.

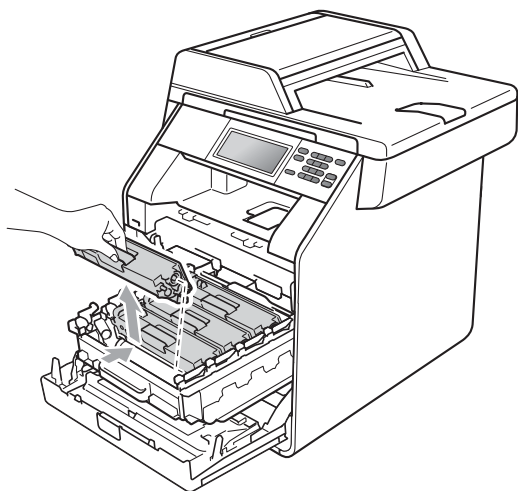


- 2 Hold the green handle of the drum unit. Pull the drum unit out until it stops.

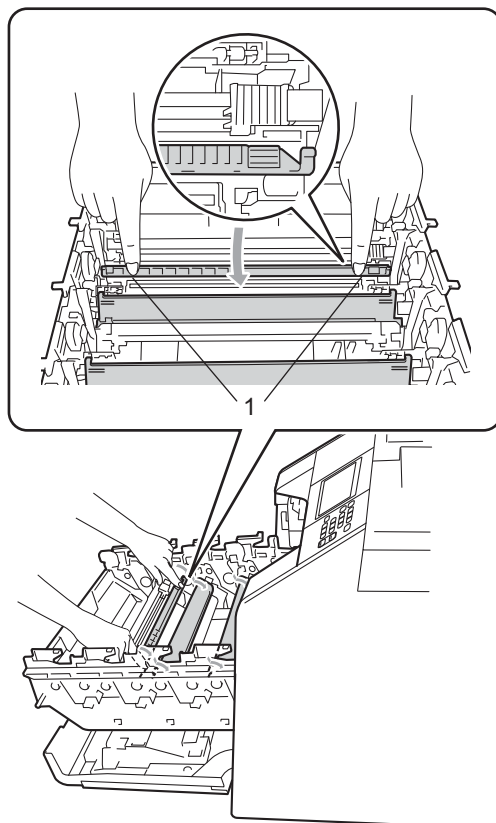


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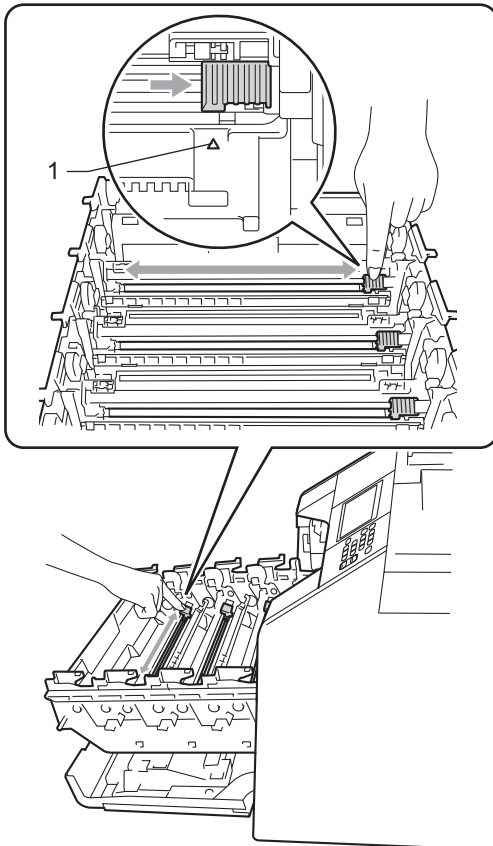
- 3 Hold the handle of the toner cartridge and slightly push it toward the machine to unlock it. Then pull it out of the drum unit. Repeat this for all the toner cartridges.



- 4 Push to release the latches of the corona wire cover (1), and then open the cover.



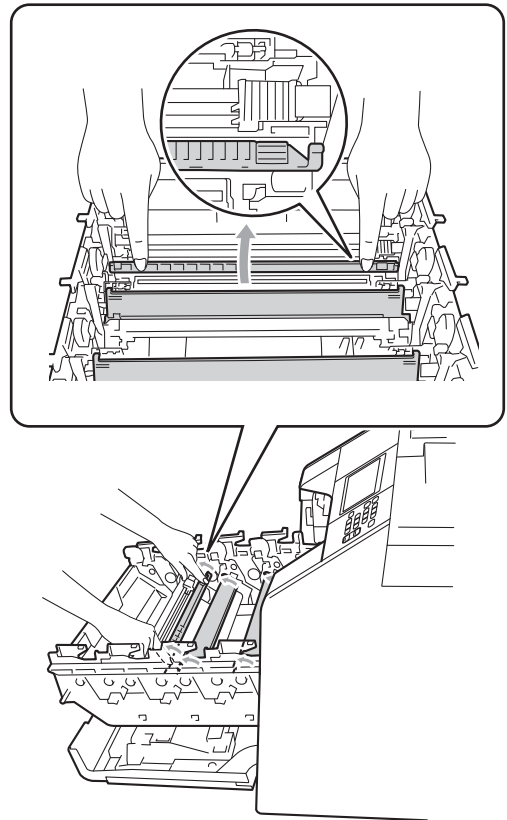
- 5 Clean the corona wire inside the drum unit by gently sliding the green tab from left to right and right to left several times.



**Note**

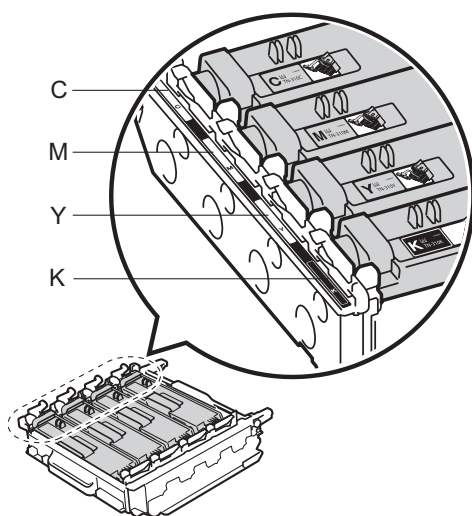
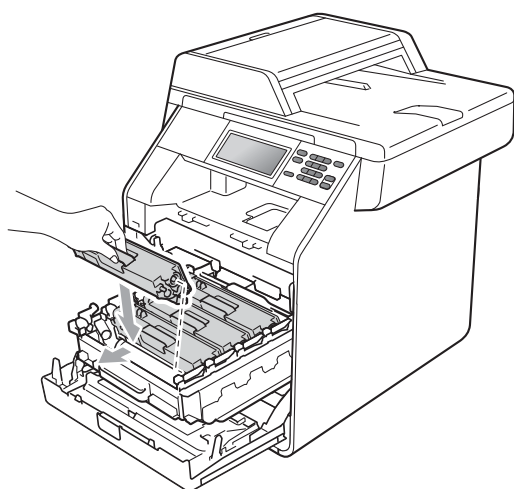
Be sure to return the tab to the home position (▲) (1). If you do not, printed pages may have a vertical stripe.

- 6 Close the corona wire cover.



- 7 Repeat steps 4 to 6 to clean each of three remaining corona wires.

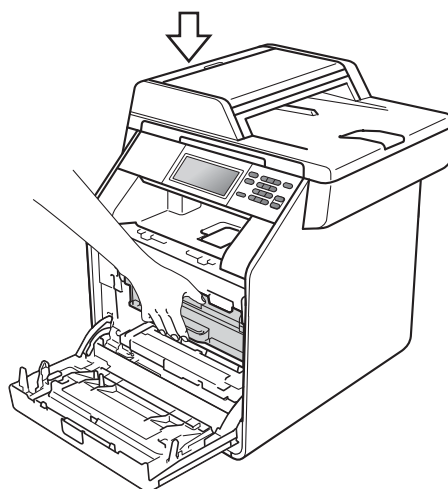
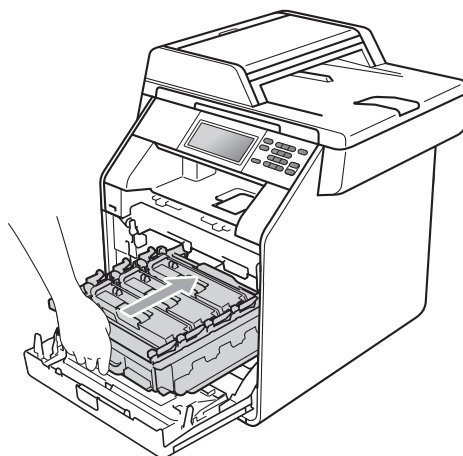
- 8 Hold the handle of the toner cartridge and slide the toner cartridge into the drum unit, then slightly pull it toward you until you hear it click into place. Make sure that you match the toner cartridge colour to the same colour label on the drum unit. Repeat this for all the toner cartridges.



C - Cyan  
Y - Yellow

M - Magenta  
K - Black

- 9 Push the drum unit in until it stops.



- 10 Close the front cover of the machine.

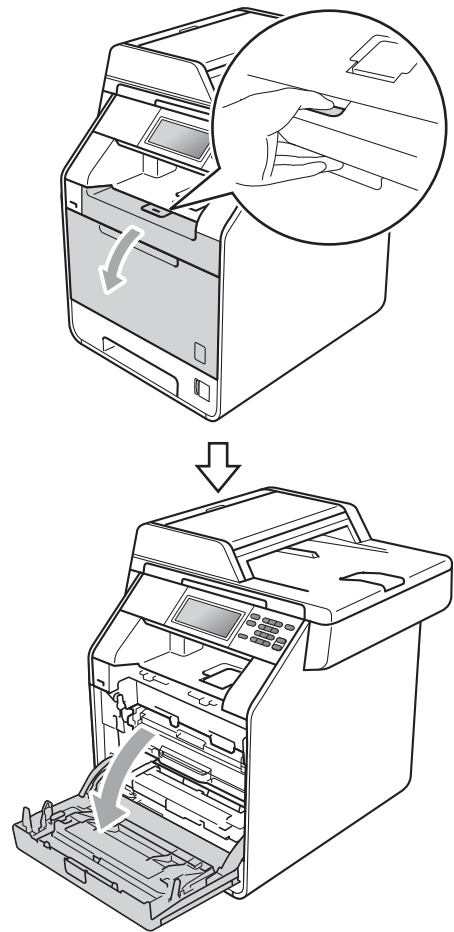


## Cleaning the drum unit

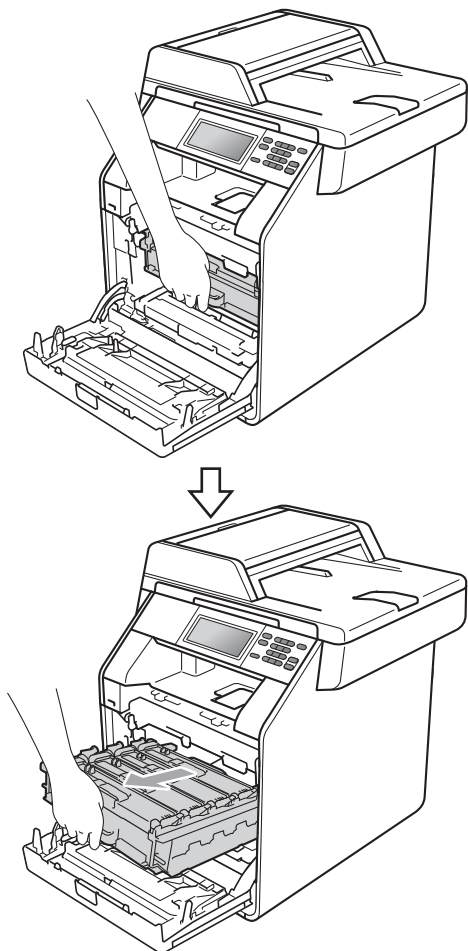
If your printout has coloured dots at 94 mm intervals, follow the steps below to solve the problem.

- 1 Make sure that the machine is in the Ready mode.
- 2 Press MENU.
- 3 Press ▲ or ▼ to display Print Reports.  
Press Print Reports.
- 4 Press Drum Dot Print.
- 5 The machine will display Press Start.  
Press **Mono Start** or **Colour Start**.
- 6 The machine will print the Drum Dot test print. Then press **Stop/Exit**.
- 7 Turn off the machine. Disconnect all cables, and then unplug the power cord from the electrical socket.

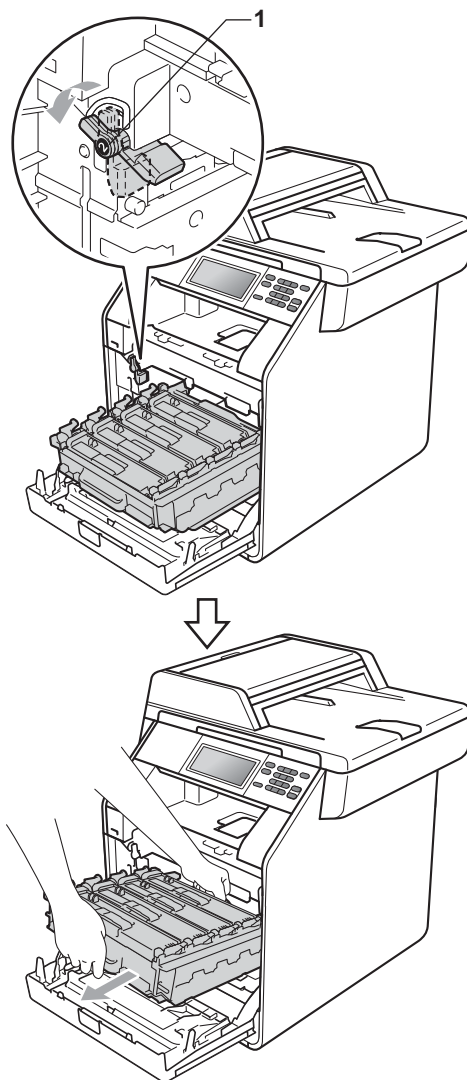
- 8 Press the front cover release button and then open the front cover.



- 9 Hold the green handle of the drum unit. Pull the drum unit out until it stops.

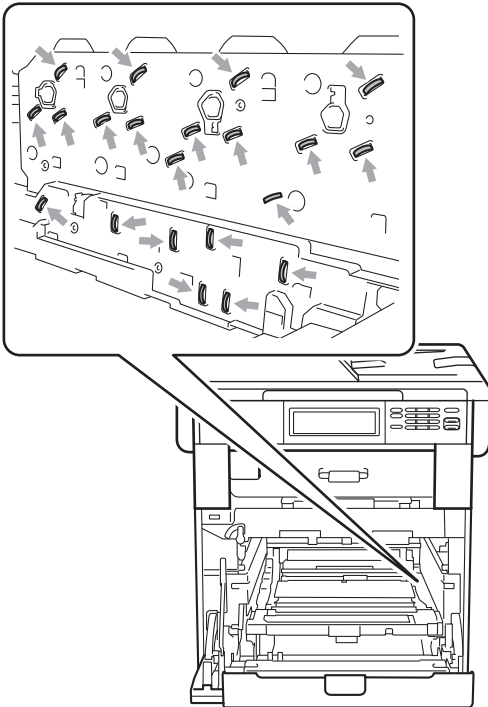


- 10 Turn the green lock lever (1) at the left of the machine anticlockwise to the release position. Holding the green handles of the drum unit, lift the front of the drum unit and remove it from the machine.



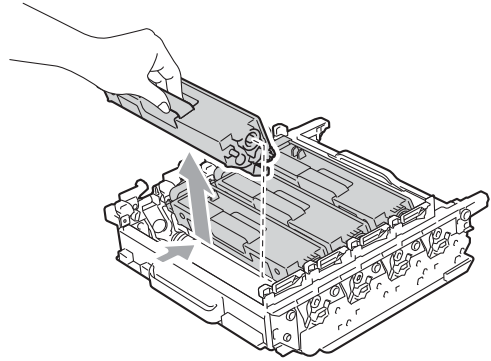
## ! IMPORTANT

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



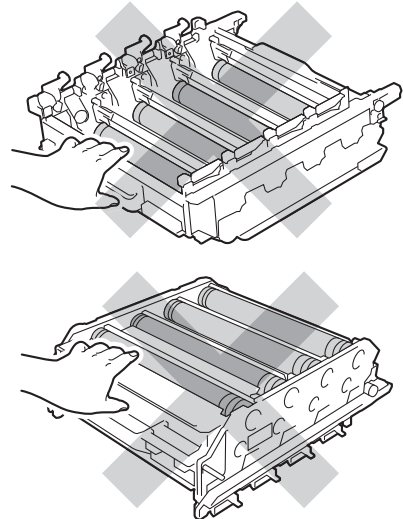
- Hold the green handles of the drum unit when you carry it. DO NOT hold the sides of the drum unit.

- 11 Hold the handle of the toner cartridge and slightly push it to unlock it. Then pull it out of the drum unit. Repeat this for all the toner cartridges.



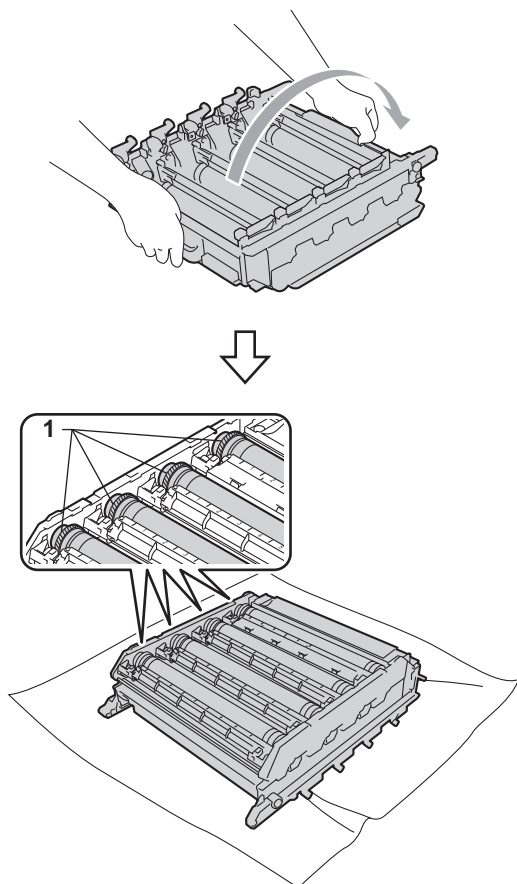
## ! IMPORTANT

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



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- 12 Turn the drum unit over by holding the green handles. Make sure that the drum unit gears (1) are on the left hand side.



- 13 Note the following information from the drum dot check sheet:

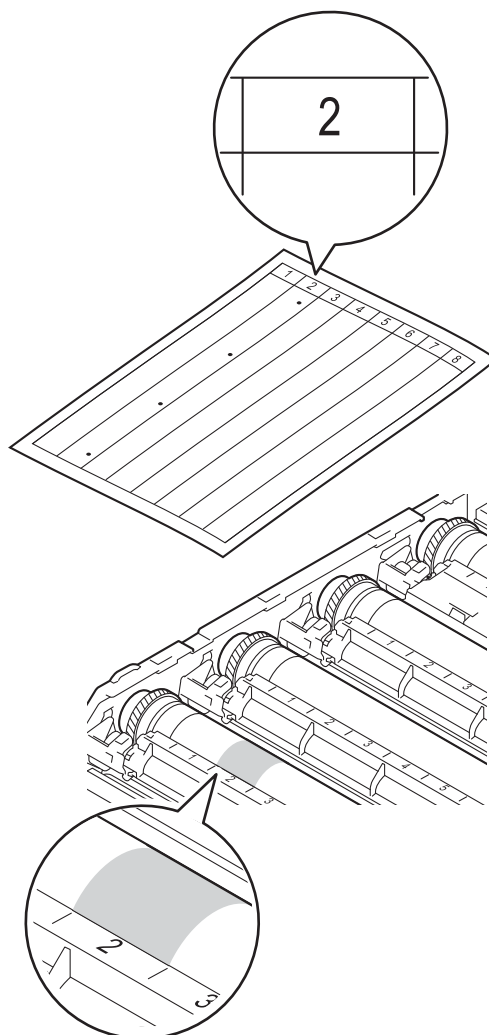
■ Dot colour

For example, a mark on the cyan drum would produce a cyan dot on the check sheet.

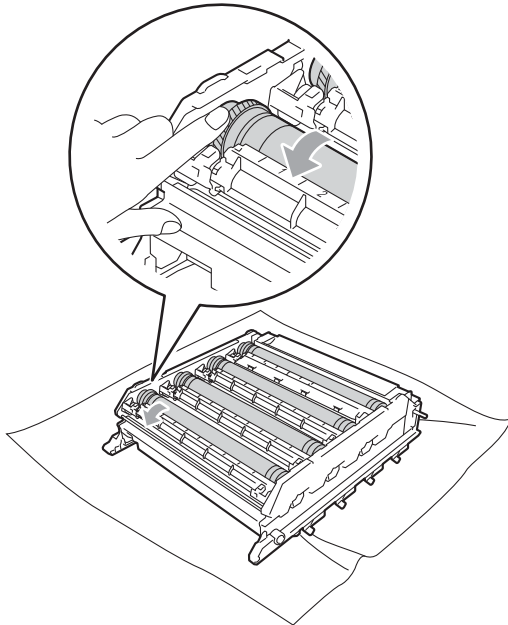
■ Dot location

Note which of the printed columns the dot appears in.

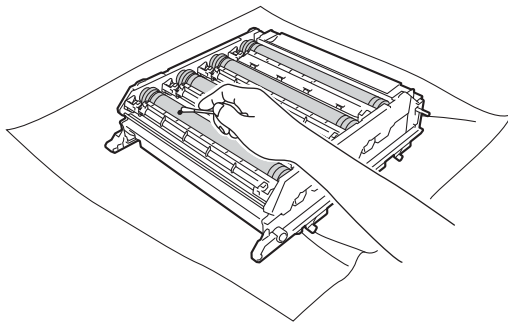
- 14 On the problem colour drum, use the numbered markers next to the drum roller to find the mark. For example, a cyan dot in column 2 on the check sheet would mean that there is a mark on the cyan drum in the "2" region.



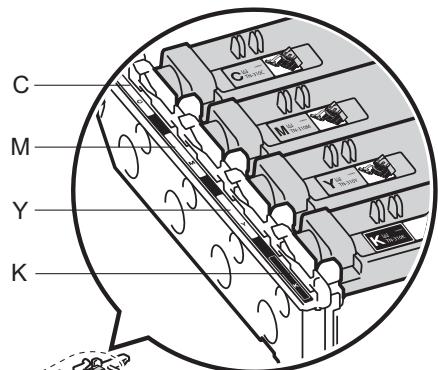
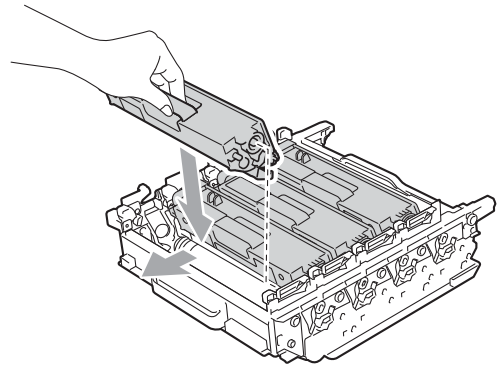
- 15 Turn the drum unit gear toward you by hand while looking at the surface of the suspected area.



- 16 When you have found the mark on the drum that matches the drum dot check sheet, wipe the surface of the drum gently with a cotton swab until the dust or paper powder on the surface comes off.



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



C - Cyan  
Y - Yellow

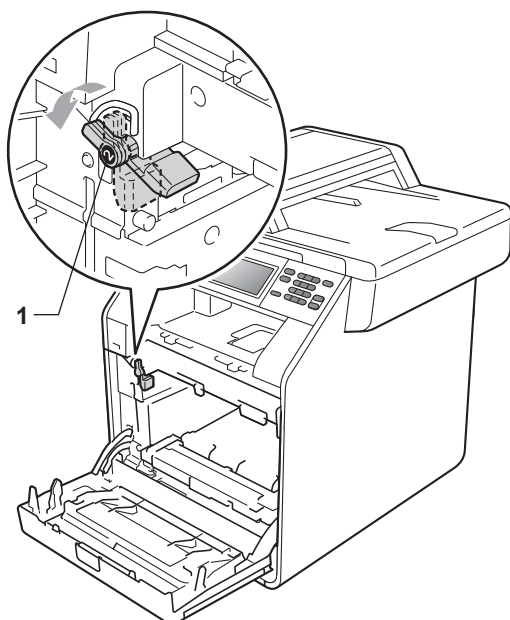
M - Magenta  
K - Black

## ! IMPORTANT

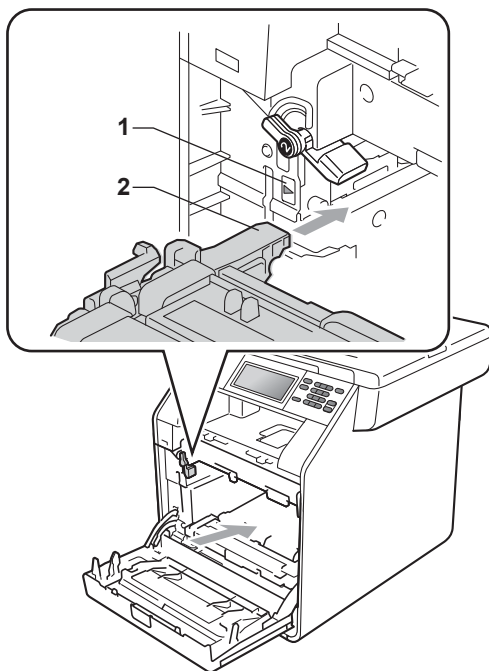
DO NOT clean the surface of the photosensitive drum with a sharp object or any liquids.

- 17 Turn the drum unit over by holding the green handles.

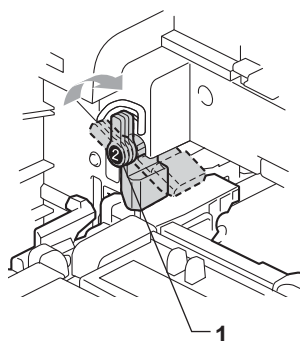
- 19 Make sure the green lock lever (1) is in the release position as shown in the illustration.



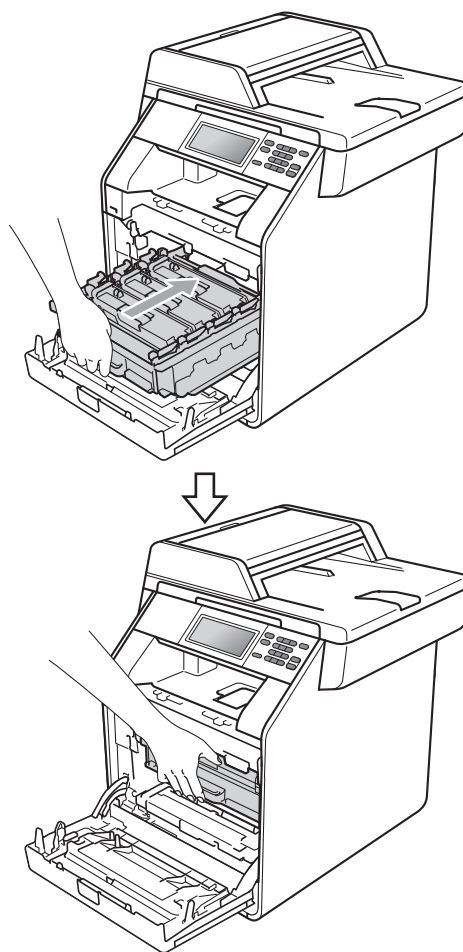
- 20 Match the guide ends (2) of the drum unit to the ► marks (1) on both sides of the machine, then gently slide the drum unit into the machine until it stops at the green lock lever.



- 21 Turn the green lock lever (1) clockwise to the lock position.



- 22 Push the drum unit in until it stops.



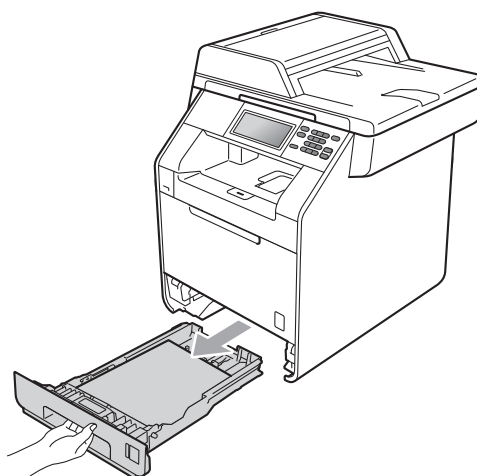
- 23 Close the front cover of the machine.

- 24 Plug the machine's power cord back into the electrical socket first and connect all cables. Turn on the machine.

## Cleaning the paper pick-up rollers

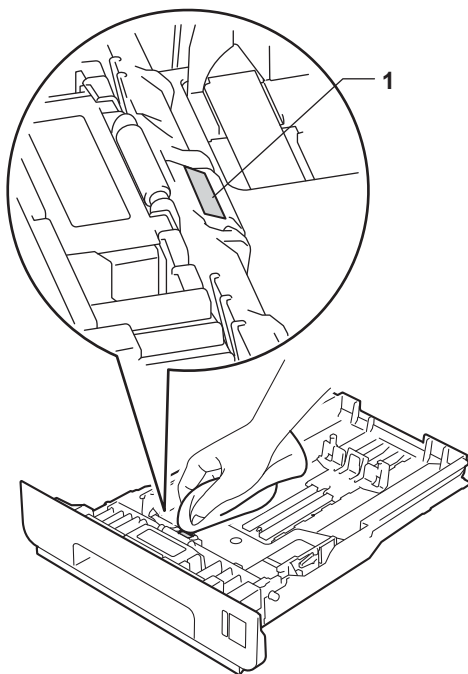
If you have paper feed problems, clean the pick-up rollers as follows:

- 1 Turn off the machine. Unplug the power cord from the electrical socket.
- 2 Pull the paper tray completely out of the machine.

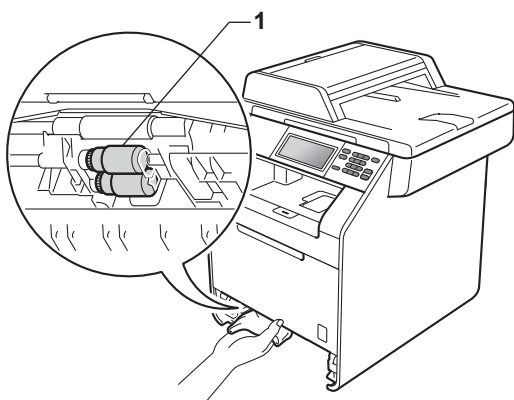


A

- 3 Tightly wring out a lint-free cloth soaked in lukewarm water, and then wipe the separator pad (1) of the paper tray with it to remove dust.



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



- 5 Put the paper tray back in the machine.
- 6 Plug the machine's power cord back into the electrical socket. Turn on the machine.

## Calibration

The output density for each colour may vary depending on the environment the machine is in such as temperature and humidity. Calibration helps you to improve the colour density.

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to display **Printer**. Press **Printer**.
- 3 Press **▲** or **▼** to display **Calibration**. Press **Calibration**.
- 4 Press **Calibrate**.
- 5 The machine will display **Calibrate?**. Press **Yes** to confirm.
- 6 The machine will display **Completed**.
- 7 Press **Stop/Exit**.

You can reset the calibration parameters back to those set at the factory.

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to display **Printer**. Press **Printer**.
- 3 Press **▲** or **▼** to display **Calibration**. Press **Calibration**.
- 4 Press **Reset**.
- 5 The machine will display **Reset?**. Press **Yes** to confirm.
- 6 The machine will display **Completed**.
- 7 Press **Stop/Exit**.



**Note**

- If an error message is displayed, press **Mono Start** or **Colour Start** and try again. (For more information, see *Error and maintenance messages* on page 87.)
- If you print using the Windows® printer driver, the driver will get the calibration data automatically if both **Use Calibration Data** and **Get Device Data Automatically** are on. The default settings are on. (See *Advanced tab* in the *Software User's Guide*.)
- If you print using the Macintosh printer driver, you need to perform the calibration using the **Status Monitor**. After turning the **Status Monitor** on, choose **Color Calibration** from the **Control** menu. (See *Status Monitor* in the *Software User's Guide*. When the **Status Monitor** is open, choose **Control / Color Calibration** from the menu bar.)

## Auto Registration

### Registration

If solid areas of colour or images have cyan, magenta or yellow fringes, you can use the auto-registration feature to correct the problem.

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to display **Printer**. Press **Printer**.
- 3 Press **▲** or **▼** to display **Auto Regist..** Press **Auto Regist..**
- 4 The machine will display **Registration?**. Press **Yes**.
- 5 The machine will display **Completed**.
- 6 Press **Stop/Exit**.

## Manual Registration

---

If colour still appears incorrectly after auto-registration, you will need to perform manual registration.

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to display **Printer**.  
Press **Printer**.
- 3 Press **▲** or **▼** to display  
**Manual Regist..**  
Press **Manual Regist..**
- 4 Press **Print Chart**.
- 5 Press **Mono Start** or **Colour Start**.
- 6 When the machine has finished printing the registration chart, press  
**Set Regist.** to correct the colour manually.
- 7 Starting at 1 Magenta Left on the chart, check which coloured bar has the most uniform print density. Press  
1 Magenta Left and choose the number on the touchscreen, using  
**◀** or **▶** to display more numbers if necessary.  
Repeat for 2 Cyan Left,  
3 Yellow Left, 4, 5, 6 to 9.
- 8 Press **OK** if you finished entering the numbers.
- 9 Press **Stop/Exit**.

## Frequency (Colour Correction)

---

You can set how often the colour correction (Colour Calibration and Auto Registration) occurs. The default setting is Normal. The colour correction process consumes some amount of the toner.

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to display **Printer**.  
Press **Printer**.
- 3 Press **▲** or **▼** to display **Frequency**.  
Press **Frequency**.
- 4 Press **Normal**, **Low** or **Off**.
- 5 Press **Stop/Exit**.

## Error and maintenance messages

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

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

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

Error Message	Cause	Action
Access Denied	The function you want to use is restricted by Secure Function Lock.	Contact your administrator to check your Secure Function Lock Settings.
Access Error	The device is removed from the USB direct interface while the data is processing.	Press <b>Stop/Exit</b> . Reinsert the device and try to print with Direct Print.
Calibration failed.	Calibration failed.	<ul style="list-style-type: none"> <li>■ Turn off the machine. Wait a few seconds, then turn it on again.</li> <li>■ Put in a new drum unit. (See <i>Replacing the drum unit</i> on page 49.)</li> <li>■ Put in a new belt unit. (See <i>Replacing the belt unit</i> on page 54.)</li> <li>■ Put in a new waste toner box. (See <i>Replacing the waste toner box</i> on page 60.)</li> <li>■ If the problem continues, call your Brother dealer.</li> </ul>
Cartridge Error Put the Black (K) Toner Cartridge back in. <sup>1</sup>	The toner cartridge is not installed correctly.	Pull out the drum unit and remove the toner cartridge for the colour that is indicated on the LCD, then re-install the toner cartridge in the drum unit. Put the drum unit back into the machine.
<sup>1</sup> The toner cartridge colour with the problem is shown in the message.		
Condensation	One of the issues that can cause this error is that condensation may form inside the machine after a room temperature change.	Leave the machine powered on, and fully open the front cover. Wait 30 minutes, switch OFF and close the cover, then switch ON. If this does not clear the error, call your Brother dealer.

Error Message	Cause	Action
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</i> , and <i>Wait for a while</i> .	Make sure that you can hear the fan in the machine spinning and that the exhaust outlet is not blocked by something.  If the fan is spinning, remove any obstacles that surround the exhaust outlet, and then leave the machine turned on but do not use it for several minutes.  If the fan is not spinning, disconnect the machine from the power for several minutes, then reconnect it.
Cover is Open.	The front cover is not completely closed.	Close the front cover of the machine.
Cover is Open	The ADF cover is not completely closed.	Close the ADF cover of the machine.
	The ADF is open while loading a document.	Close the ADF cover of the machine, then press <b>Stop/Exit</b> .
Cover is Open	The fuser cover is not completely closed or paper was jammed in the back of the machine when you turned on the power.	<ul style="list-style-type: none"> <li>■ Close the fuser cover of the machine.</li> <li>■ Make sure paper is not jammed inside the back of the machine, and then close the fuser cover and press <b>Mono Start</b> or <b>Colour Start</b>.</li> </ul>
DIMM Error	<ul style="list-style-type: none"> <li>■ The DIMM is not installed correctly.</li> <li>■ The DIMM is broken.</li> <li>■ The DIMM does not meet the required specifications.</li> </ul>	<ul style="list-style-type: none"> <li>■ Turn off the machine and remove the DIMM.</li> <li>■ Confirm the DIMM meets the required specifications. (See <i>Memory board</i> in <i>Appendix B</i> of the <i>Advanced User's Guide</i>.)</li> <li>■ Re-install the DIMM correctly. Wait a few seconds, and then turn it on again.</li> <li>■ If this error message appears again, replace the DIMM with a new one. (See <i>Installing extra memory</i> in <i>Appendix B</i> of the <i>Advanced User's Guide</i>.)</li> </ul>
Document Jam	The document was not inserted or fed correctly, or the document scanned from the ADF was too long.	See <i>Document jams</i> on page 93 or <i>Using the automatic document feeder (ADF)</i> on page 25.
Drum Error	The corona wire on the drum unit needs to be cleaned.	Clean the corona wire on the drum unit. (See <i>Cleaning the corona wires</i> on page 73.)
Drum Stop	It is time to replace the drum unit.	Replace the drum unit. (See <i>Replacing the drum unit</i> on page 49.)
Duplex Disabled Close the Back Cover of the machine.	The back of the machine is not closed completely.	Close the back cover of the machine.

Error Message	Cause	Action
Duplex Disabled Reload paper, then press Start.	Although the size of paper in the paper tray matches the paper size that was selected from the control panel or printer driver, the machine has stopped printing when it encountered an additional, different size of paper in the tray.	Make sure the paper tray contains only the size of paper you select in either the control panel or printer driver, then press <b>Mono Start</b> or <b>Colour Start</b> .
	The paper tray was pulled out before the machine completed printing on both sides of the paper.	Re-install the paper tray and press <b>Mono Start</b> or <b>Colour Start</b> .
Fuser Error	The temperature of the fuser unit does not rise to a specified temperature within the 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.	
Jam Duplex	The paper is jammed underneath Paper Tray 1 or in the fuser unit.	(See <i>Paper is jammed underneath paper tray 1</i> on page 103.)
Jam Inside	The paper is jammed inside the machine.	(See <i>Paper is jammed inside the machine</i> on page 99.)
Jam MP	The paper is jammed in the MP tray of the machine.	(See <i>Paper is jammed in the MP tray</i> on page 95.)
Jam Rear	The paper is jammed in the back of the machine.	(See <i>Paper is jammed at the back of the machine</i> on page 97.)
Jam Tray 1 Jam Tray 2	The paper is jammed in the paper tray of the machine.	(See <i>Paper is jammed in paper tray 1 or tray 2</i> on page 96.)
Limit Exceeded	The printing limit set by Secure Function Lock 2.0 was reached. The print job will be cancelled.	Contact your administrator to check your Secure Function Lock Settings.
Low Temperature	The room temperature is too low for the machine to operate.	Increase the room temperature to allow the machine to operate.
No Belt Unit	The belt unit is not installed correctly.	Re-install the belt unit. (See <i>Replacing the belt unit</i> on page 54.)
No Paper	The machine is out of paper or paper is not correctly loaded in the paper tray.	Do one of the following: <ul style="list-style-type: none"> <li>■ Refill the paper in the paper tray.</li> <li>■ Remove the paper and load it again.</li> <li>■ If the problem is not resolved, the paper pick-up roller may need to be cleaned. Clean the paper pick-up roller. (See <i>Cleaning the paper pick-up rollers</i> on page 83.)</li> </ul>

Error Message	Cause	Action
No Permission	You have attempted to print in colour using a Secure Function Lock ID that is restricted to mono printing only. The print job will be cancelled.	Contact your administrator to check your Secure Function Lock Settings.
No Toner	The toner cartridge for the colour indicated on the LCD is not installed correctly.	Pull out the drum unit. Take out the toner cartridge for the colour indicated on the LCD, and then put it back into the drum unit.
No Tray	The paper tray indicated on the LCD is not installed properly.	Re-install the paper tray that is indicated on the LCD.
No Waste Toner	The waste toner box is not installed properly.	Re-install the waste toner box. (See <i>Replacing the waste toner box</i> on page 60.)
Out of Memory	The machine's memory is full.	<p><b>Copy operation in progress</b></p> <p>Do one of the following:</p> <ul style="list-style-type: none"> <li>■ Press <b>Mono Start</b> or <b>Colour Start</b> to copy the scanned pages.</li> <li>■ Press <b>Stop/Exit</b> and wait until the other operations in progress finish, and then try again.</li> <li>■ Add optional memory. (See <i>Memory board</i> in <i>Appendix B</i> of the <i>Advanced User's Guide</i>.)</li> </ul> <p><b>Print operation in process</b></p> <p>Do the following:</p> <ul style="list-style-type: none"> <li>■ Reduce the print quality. (See <i>Basic tab</i> in the <i>Software User's Guide</i>.)</li> </ul>
Print Unable XX	The machine has a mechanical problem.	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>■ Turn off the machine, wait for a few minutes, and then turn it on again.</li> <li>■ If the problem continues, call your Brother dealer.</li> </ul>
Protected Device	The protect switch of the USB Flash memory drive is on.	Turn off the protect switch of the USB Flash memory drive.
Registration failed.	Registration failed.	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>■ Turn off the machine's power switch. Wait a few seconds, then turn it on again.</li> <li>■ Try Manual Registration, MENU, Printer, Manual Regist.. (See <i>Manual Registration</i> on page 86.)</li> <li>■ Put in a new belt unit. (See <i>Replacing the belt unit</i> on page 54.)</li> <li>■ If the problem continues, call your Brother dealer.</li> </ul>

Error Message	Cause	Action
Rename the File	There is already a file on the USB Flash memory drive with the same name as the file you are trying to save.	Change the name of the file on the USB Flash memory drive or the file you are trying to save.
Replace Parts Belt Unit	It is time to replace the belt unit.	Replace the belt unit. (See <i>Replacing the belt unit</i> on page 54.)
Replace Parts Drum Unit	It is time to replace the drum unit.	Replace the drum unit. (See <i>Replacing the drum unit</i> on page 49.)
	The drum unit counter was not reset when a new drum was installed.	Reset the drum unit counter. (See <i>Resetting the drum counter</i> on page 54.)
Replace Parts Fuser Unit	It is time to replace the fuser unit.	Call your Brother dealer or a Brother Authorized Service Center to replace the fuser unit.
Replace Parts PF Kit 1 PF Kit 2 PF Kit MP	It is time to replace the paper feeding kit.	Call your Brother dealer or a Brother Authorized Service Center to replace the PF Kit.
Replace Parts WT Box End Soon	The waste toner box is near the end of its life.	Buy a new waste toner box before you get a Replace WT Box message.
Replace Toner	The toner cartridge is at the end of its life.	Replace the toner cartridge for the colour indicated on the LCD. (See <i>Replacing a Toner cartridge</i> on page 42.)
Replace WT Box	It is time to replace the waste toner box.	Replace the waste toner box. (See <i>Replacing the waste toner box</i> on page 60.)
Scan Unable XX	The machine has a mechanical problem.	<ul style="list-style-type: none"> <li>■ Turn off the machine and then turn it on again.</li> <li>■ If the problem continues, call your Brother dealer.</li> </ul>
	Document is too long for duplex scanning.	Press <b>Stop/Exit</b> . Use the suitable size of paper for duplex scanning. (See <i>Document Size</i> on page 151.)
Short paper	The length of the paper in the tray is too short for the machine to deliver it to the <i>face-down</i> output tray.	Open the back cover ( <i>face-up</i> output tray) to let the printed paper out on the <i>face-up</i> output tray. Remove the printed pages and then press <b>Mono Start</b> or <b>Colour Start</b> .
Size Error DX	The paper size defined in the printer driver is not usable for the automatic duplex printing.	Press <b>Mono Start</b> or <b>Colour Start</b> . Choose a paper size which is supported by the duplex tray. (See <i>Print media</i> on page 152.)
Size mismatch	The paper in the tray is not the correct size.	Load the correct size of paper in the tray and set the "Paper Size" (MENU, General Setup, Tray Setting). (See <i>Paper Size and Type</i> on page 18.)

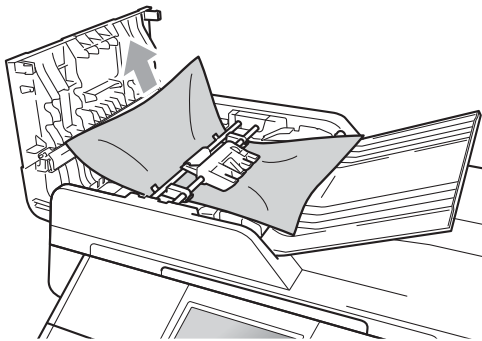
Error Message	Cause	Action
Small paper	The paper size specified in the printer driver is too small for the machine to deliver it to the <i>face-down</i> output tray.	Open the back cover ( <i>face-up</i> output tray) to let the document print on to the <i>face-up</i> output tray. Then press <b>Mono Start</b> or <b>Colour Start</b> .
Toner Error	One or more toner cartridges are not installed correctly.	Pull out the drum unit. Take out all the toner cartridges, and then put them back into the drum unit.
Toner Low	The toner cartridge is near the end of its life.	Buy a new toner cartridge for the colour that is indicated on the LCD before you get a Replace Toner message.
Too Many Files	There are too many files stored on the USB Flash memory drive.	Reduce the number of files stored on the USB Flash memory drive.
Unusable Device	An incompatible or defective device has been connected to the USB direct interface.	Remove the USB Flash memory drive from the USB direct interface.



# Document jams

## Document is jammed in the top of the ADF unit

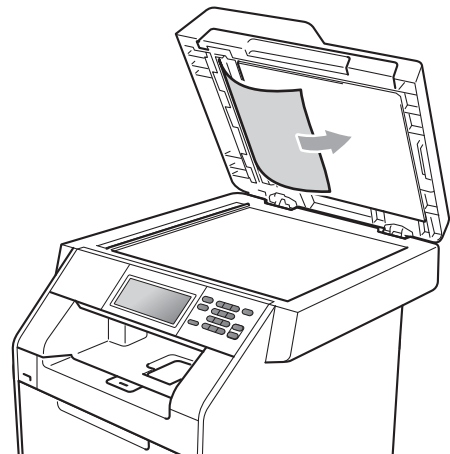
- 1 Take out any paper from the ADF that is not jammed.
- 2 Open the ADF cover.
- 3 Pull the jammed document out to the left.



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

## Document is jammed under the document cover

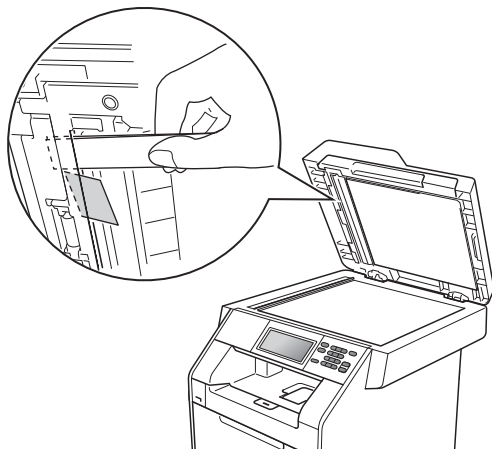
- 1 Take out any paper from the ADF that is not jammed.
- 2 Lift the document cover.
- 3 Pull the jammed document out to the right.



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

## Removing small documents jammed in the ADF

- 1 Lift the document cover.
- 2 Insert a piece of stiff paper, such as cardstock, into the ADF to push any small paper scraps through.



- 3 Close the document cover.
- 4 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.



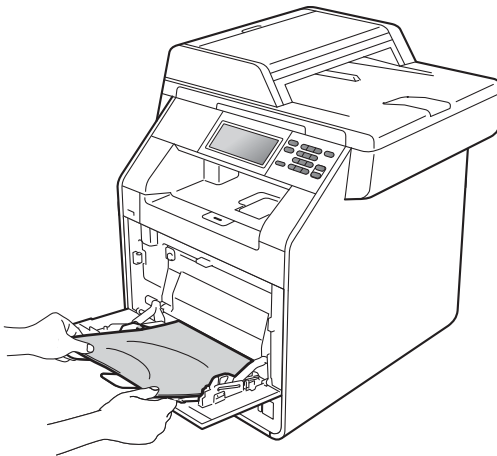
- 3 Press **Stop/Exit**.

# Paper jams

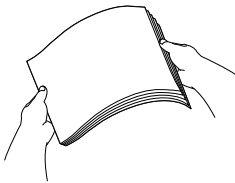
## Paper is jammed in the MP tray

If the LCD shows Jam MP, follow these steps:

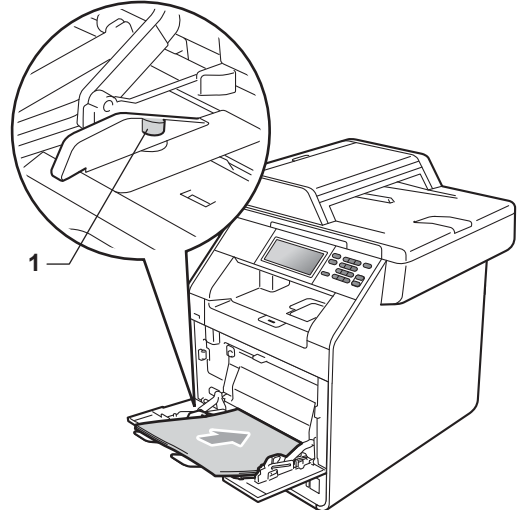
- 1 Remove the paper from the MP tray.
- 2 Remove any jammed paper from in and around the MP tray.



- 3 Fan the paper stack, and then put it back in the MP tray.



- 4 When loading paper in the MP tray, make sure that the paper stays under the maximum paper mark (1) on both sides of the tray.



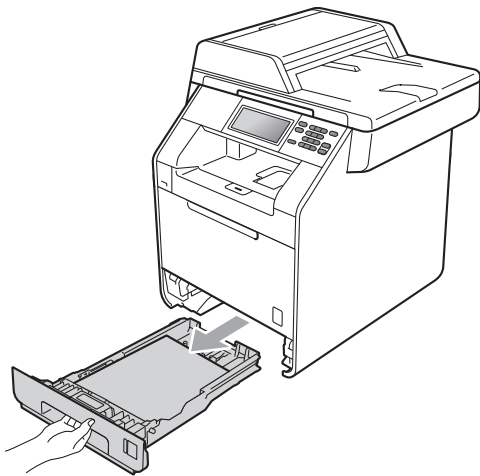
- 5 Press **Mono Start** or **Colour Start** to resume printing.

## Paper is jammed in paper tray 1 or tray 2

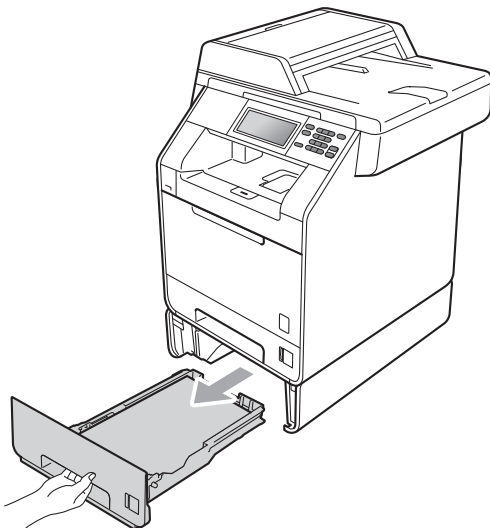
If the LCD shows Jam Tray 1 or Jam Tray 2, follow these steps:

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

For Jam Tray 1:

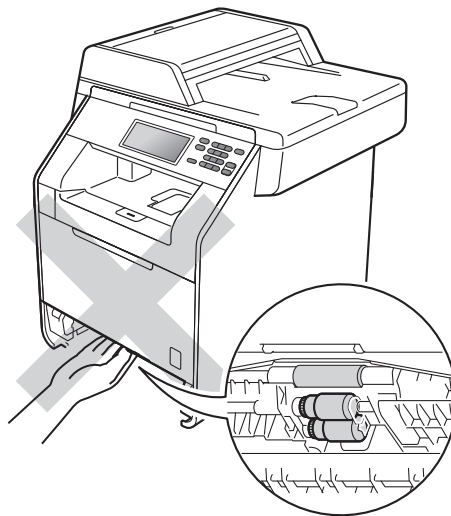


For Jam Tray 2:

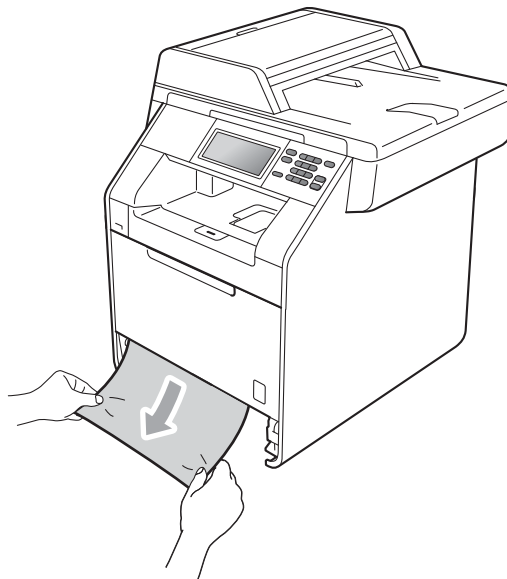


## WARNING

DO NOT touch the shaded parts shown in the illustration. These rollers may be rotating at high speed.



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



# **! IMPORTANT**

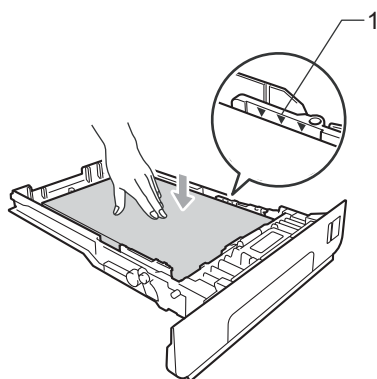
If the paper cannot easily be removed in this direction, stop and follow the instructions for *Paper is jammed inside the machine* on page 99.



## **Note**

Pulling out the jammed paper downwards allows you to remove the paper easier.

- 3 Make sure the paper is below the maximum paper mark (▼▼▼) (1) of the paper tray. While pressing the green paper-guide release lever, slide the paper guides to fit the paper size. Make sure that the guides are firmly in the slots. (See *Loading paper in the standard paper tray (Tray 1)* on page 10.)

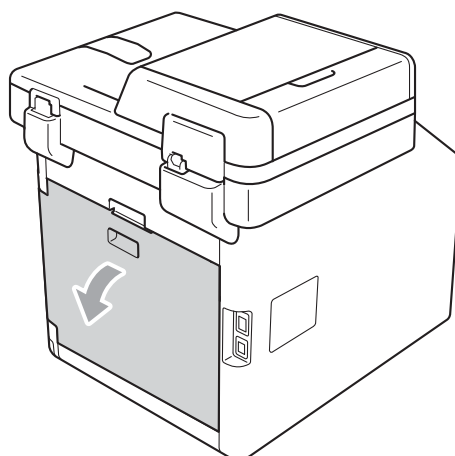


- 4 Put the paper tray firmly back in the machine.

## **Paper is jammed at the back of the machine**

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

- 1 Leave the machine turned on for 10 minutes to cool down.
- 2 Open the back cover.

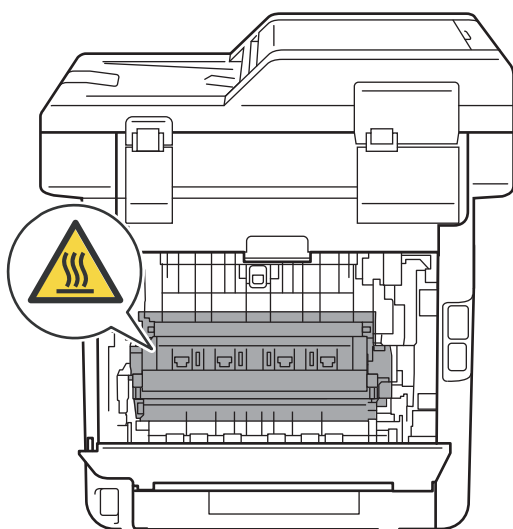


B

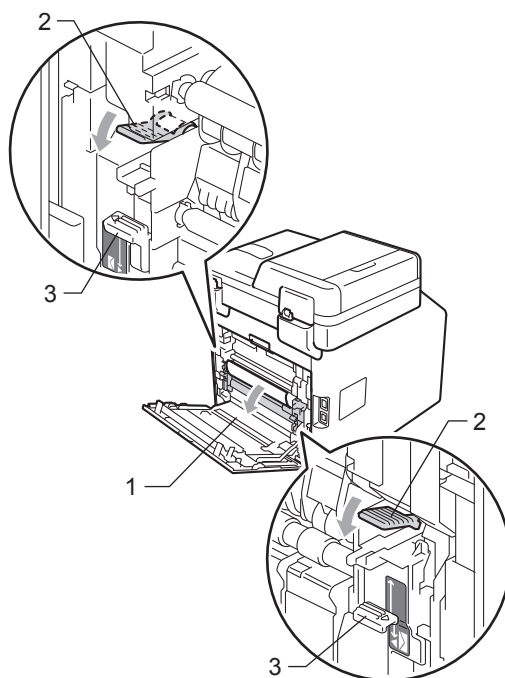
## **⚠ CAUTION**

### **🔥 HOT SURFACE**

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



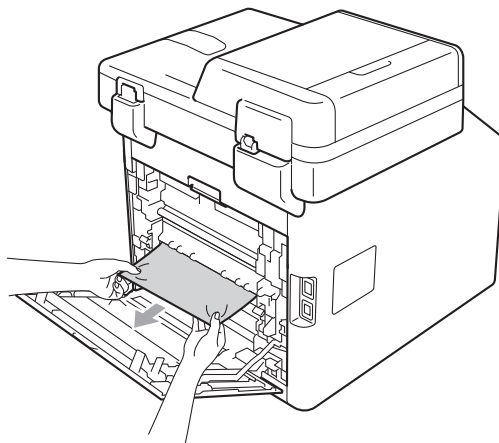
- 3** Pull the green tabs (2) at the left and right hand sides toward you and fold down the fuser cover (1).



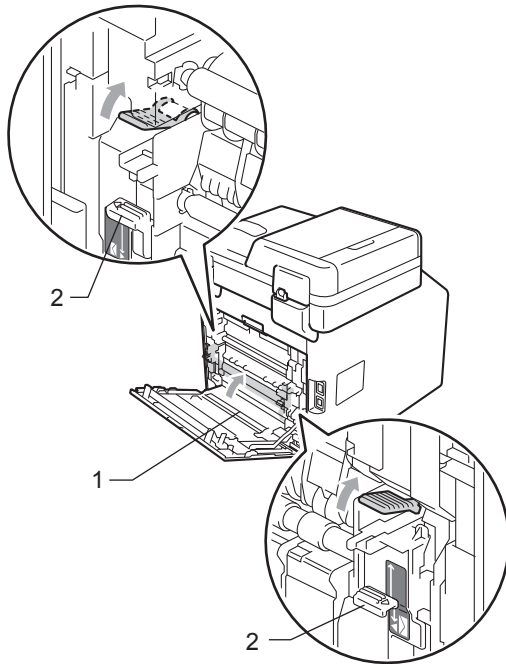
### **Note**

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

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



- 5 Close the fuser cover (1).



### Note

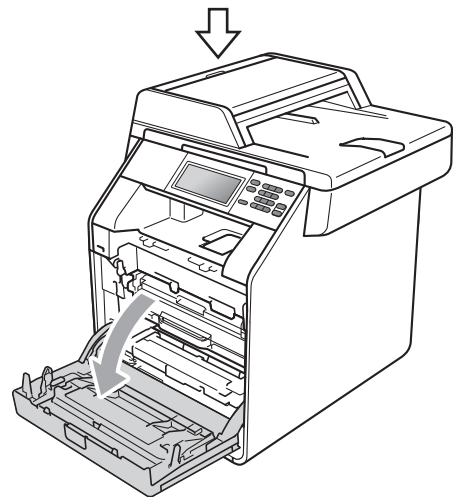
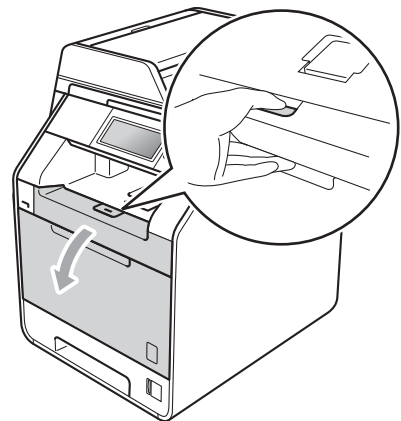
If you are printing on envelopes, pull down the envelope levers (2) to the envelope position again before closing the back cover.

- 6 Fully close the back cover.

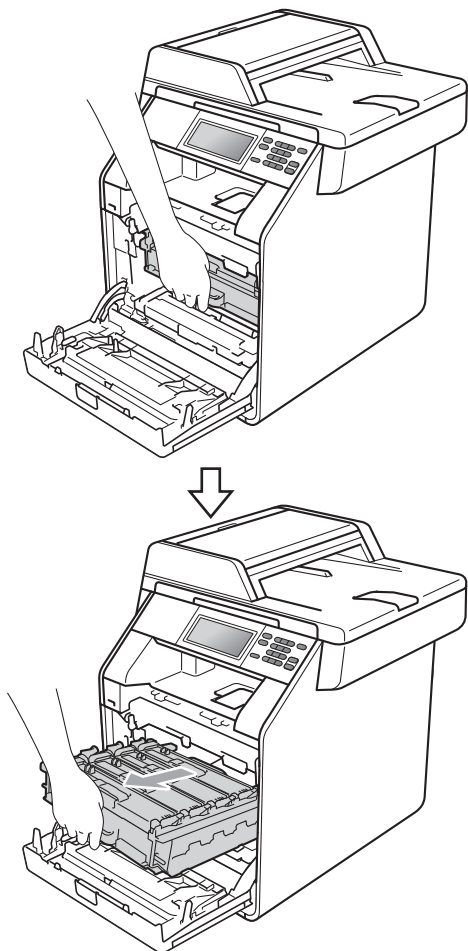
## Paper is jammed inside the machine

If the LCD shows **Jam Inside**, follow these steps:

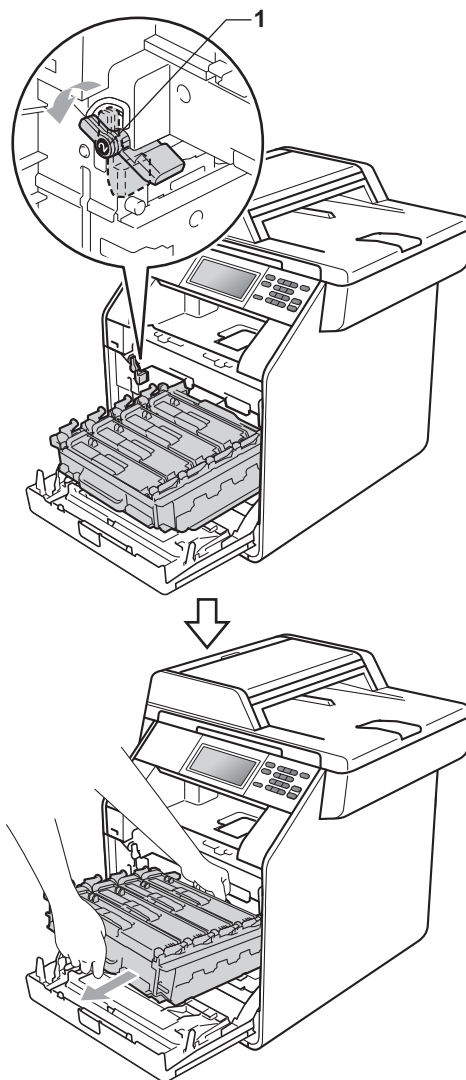
- 1 Turn off the machine. Disconnect all cables, and then unplug the power cord from the electrical socket.
- 2 Press the front cover release button and then open the front cover.



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



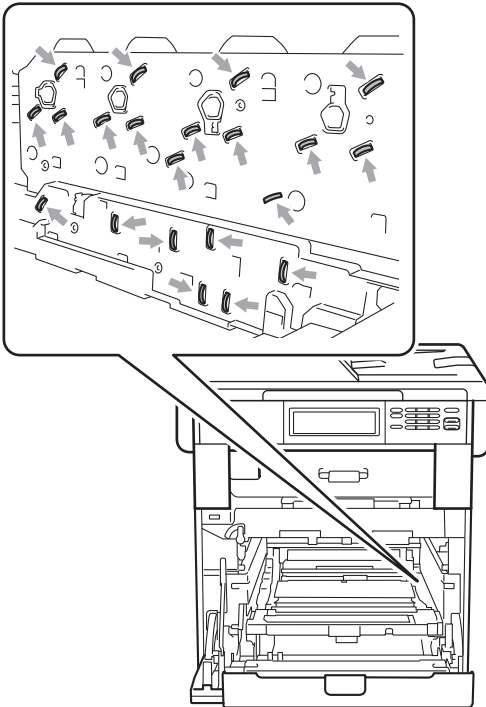
- 4 Turn the green lock lever (1) at the left of the machine anticlockwise to the release position. Holding the green handles of the drum unit, lift the front of the drum unit and remove it from the machine.





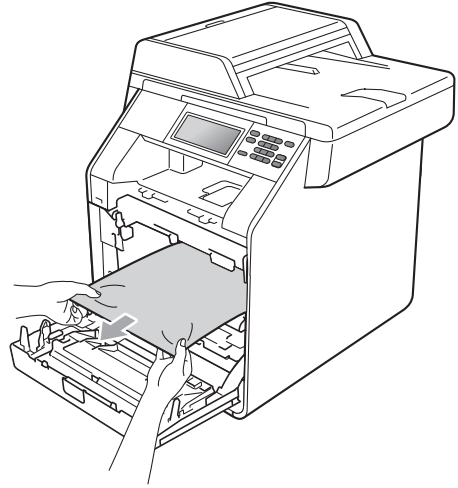
## ! IMPORTANT

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

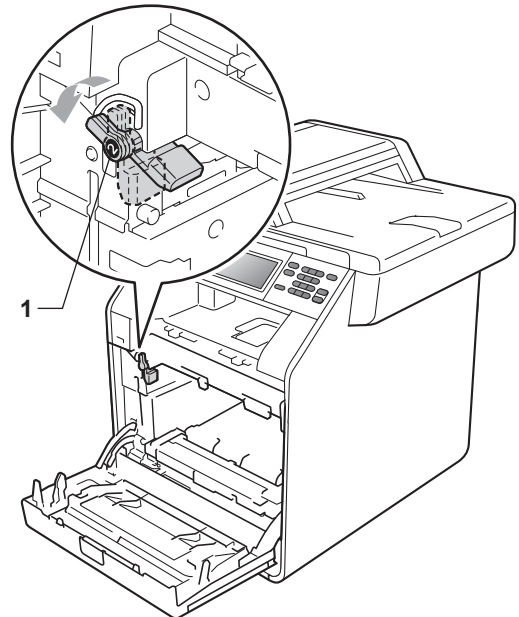


- Hold the green handles of the drum unit when you carry it. DO NOT hold the sides of the drum unit.

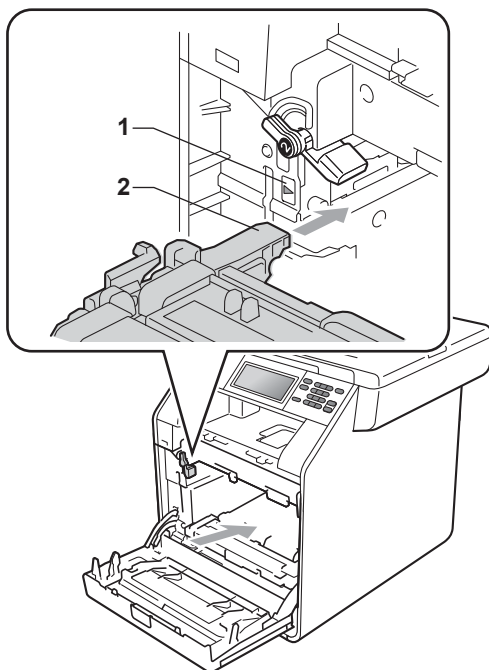
- 5 Pull out the jammed paper slowly.



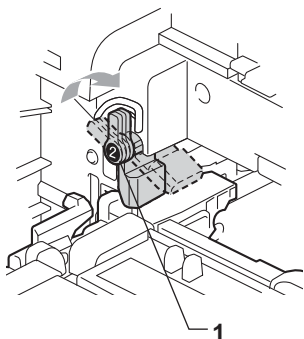
- 6 Make sure the green lock lever (1) is in the release position as shown in the illustration.



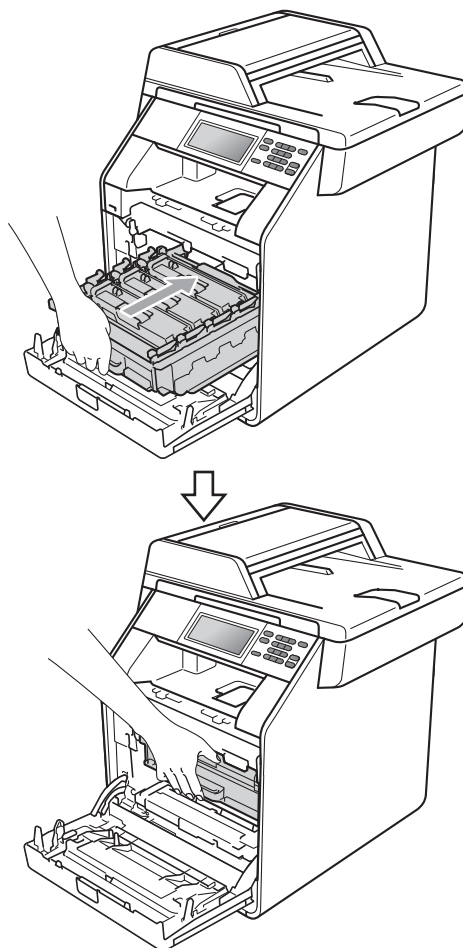
- 7 Match the guide ends (2) of the drum unit to the ► marks (1) on both sides of the machine, then gently slide the drum unit into the machine until it stops at the green lock lever.



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



- 9 Push the drum unit in until it stops.



- 10 Close the front cover of the machine.



#### Note

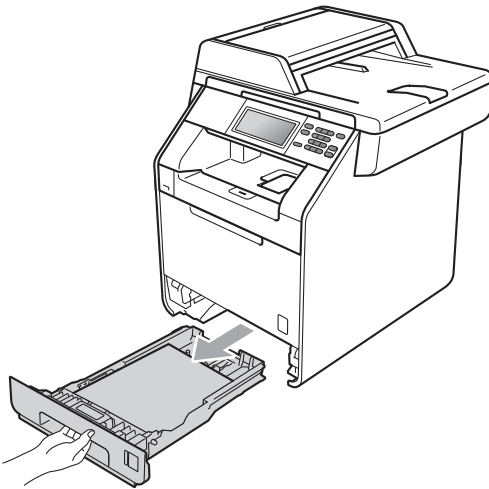
If you turn off the machine while the LCD shows **Jam Inside**, the machine will print incomplete data from your computer. Before you turn on the machine, delete the print spool job on your computer.

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

## Paper is jammed underneath paper tray 1

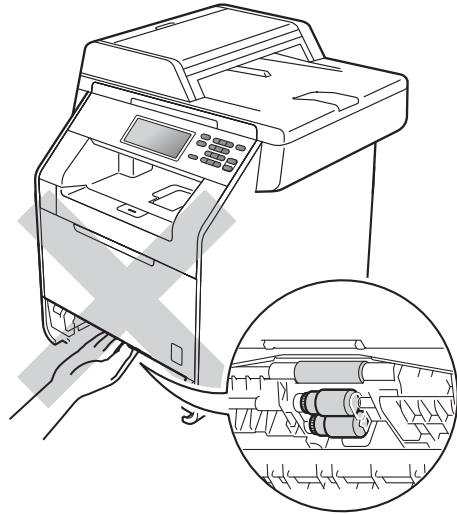
If the LCD shows Jam Duplex, follow these steps:

- 1 Leave the machine turned on for 10 minutes to cool down.
- 2 Pull the paper tray completely out of the machine.

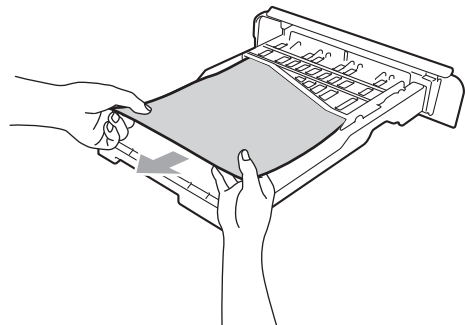


## WARNING

DO NOT touch the shaded parts shown in the illustration. These rollers may be rotating at high speed.



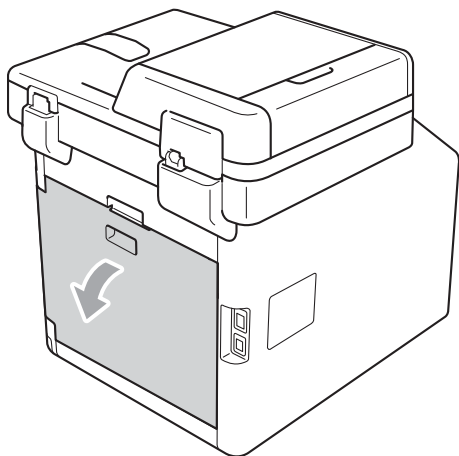
- 3 If paper is not caught inside the machine, turn the paper tray over and check underneath the paper tray.



### Note

DO NOT put the paper tray back in at this point.

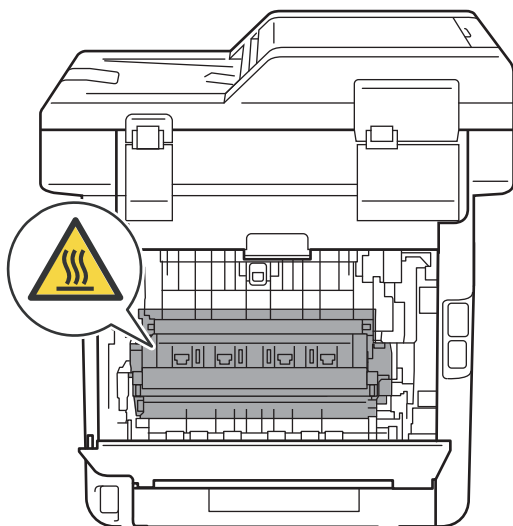
- 4 If the paper is not caught in the paper tray, open the back cover.



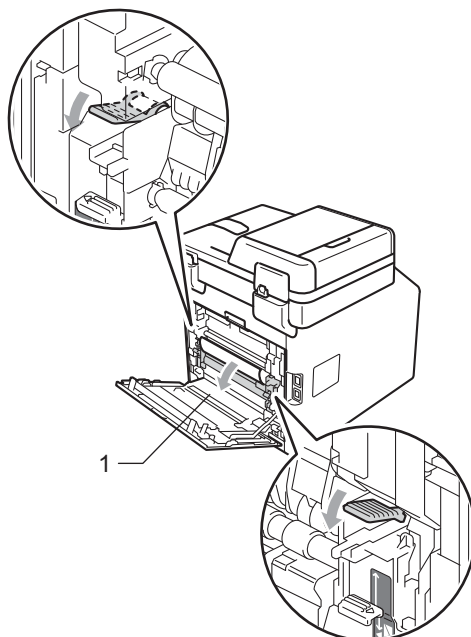
## **⚠ CAUTION**

### **⚠ HOT SURFACE**

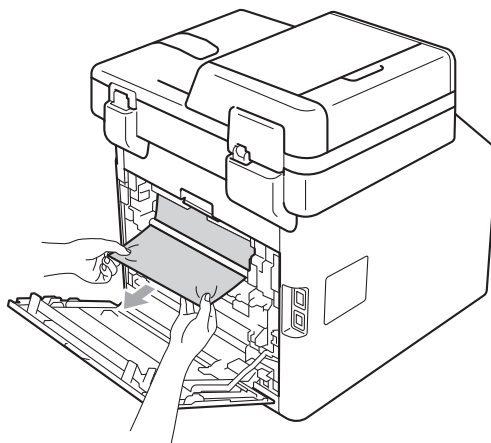
After you have just used the machine, some internal parts of the machine will be extremely hot. Wait for the machine to cool down before you touch the internal parts of the machine.



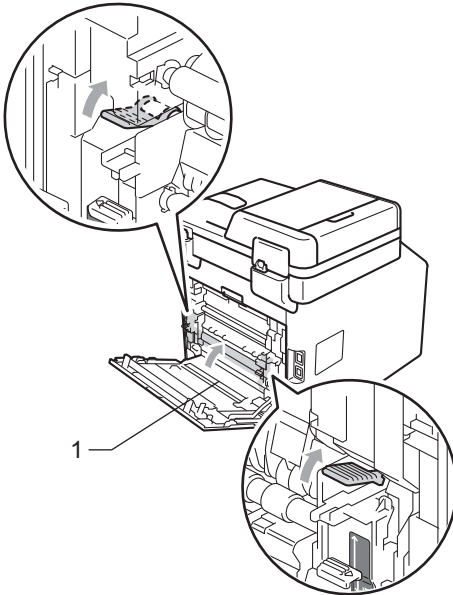
- 5 Push down and pull the green tabs at the left and right hand sides toward you and fold down the fuser cover (1).



- 6 Using both hands, gently pull out the jammed paper.



- 7 Close the fuser cover (1).



- 8 Fully close the back cover.
- 9 Put the paper tray firmly back in the machine.


# If you are having difficulty with your machine

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

Most problems can be easily resolved by yourself. If you need additional help, the Brother Solutions Center offers the latest FAQs and troubleshooting tips.

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

## Copy difficulties

Difficulties	Suggestions
Cannot make a copy.	<ul style="list-style-type: none"><li>■ Make sure that <b>COPY</b>  is illuminated. (See <i>How to copy</i> on page 27.)</li><li>■ Contact your administrator to check your Secure Function Lock Settings.</li></ul>
Vertical black line appears in copies.	Black vertical lines on copies are typically caused by dirt or correction fluid on the glass strip, or one or more corona wires are dirty. (See <i>Cleaning the scanner glass</i> on page 68 and <i>Cleaning the corona wires</i> on page 73.)
Copies are blank.	Make sure you are loading the document properly. (See <i>Using the automatic document feeder (ADF)</i> on page 25 or <i>Using the scanner glass</i> on page 26.)

## Printing difficulties

Difficulties	Suggestions
No printout.	<ul style="list-style-type: none"> <li>■ Check that the machine is plugged in and the power switch is turned on.</li> <li>■ Check that the toner cartridge and drum unit are installed correctly. (See <i>Replacing the drum unit</i> on page 49.)</li> <li>■ Check the interface cable connection on both the machine and your computer. (See the <i>Quick Setup Guide</i>.)</li> <li>■ Check that the correct printer driver has been installed and chosen.</li> <li>■ Check to see if the LCD is showing an error message. (See <i>Error and maintenance messages</i> on page 87.)</li> <li>■ Check the machine is online: (Windows® 7 and Windows Server® 2008 R2) Click the <b>Start</b> button and <b>Devices and Printers</b>. Right-click <b>Brother DCP-XXXX Printer</b>. Make sure that <b>Use Printer Offline</b> is unchecked. (Windows Vista®) Click the <b>Start</b> button, <b>Control Panel, Hardware and Sound</b>, and then <b>Printers</b>. Right-click <b>Brother DCP-XXXX Printer</b>. Make sure that <b>Use Printer Offline</b> is unchecked. (Windows® XP and Windows Server® 2003/2008) Click the <b>Start</b> button and choose <b>Printers and Faxes</b>. Right-click <b>Brother DCP-XXXX Printer</b>. Make sure that <b>Use Printer Offline</b> is unchecked. (Windows® 2000) Click the <b>Start</b> button and choose <b>Settings</b> and then <b>Printers</b>. Right-click <b>Brother DCP-XXXX Printer</b>. Make sure that <b>Use Printer Offline</b> is unchecked.</li> <li>■ Contact your administrator to check your Secure Function Lock settings.</li> <li>■ If either the Cyan, Magenta or Yellow toner reaches the end of its life while printing a colour document, the print job cannot be completed. You can choose to start the print job again in Mono mode, as long as black toner is available. See <i>Basic tab</i> in the <i>Software User's Guide</i>.</li> </ul>
The machine prints unexpectedly or it prints garbage.	<ul style="list-style-type: none"> <li>■ Press <b>Job Cancel</b> to cancel print jobs.</li> <li>■ Check the settings in your application to make sure it is set up to work with your machine.</li> </ul>
The machine prints the first couple of pages correctly, then some pages have text missing.	<ul style="list-style-type: none"> <li>■ Check the settings in your application to make sure that it is set up to work with your machine.</li> <li>■ Your computer is not recognising the machine's input buffer's full signal. Make sure that you connected the interface cable correctly. (See the <i>Quick Setup Guide</i>.)</li> </ul>
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. (See <i>Unscannable and unprintable areas</i> on page 17.)
The machine does not print on both sides of the paper even though the printer driver setting is Duplex.	Check the paper size setting in the printer driver. You need to choose A4 [60 to 105 g/m <sup>2</sup> ].

## Printing difficulties (continued)

Difficulties	Suggestions
The machine is not printing or has stopped printing.	<ul style="list-style-type: none"> <li>■ If either the Cyan, Magenta or Yellow toner reaches the end of its life while printing a colour document, the print job cannot be completed. You can choose to start the print job again in Mono mode, as long as black toner is available. See <i>Basic tab</i> in the <i>Software User's Guide</i>.</li> <li>■ Press <b>Job Cancel</b>.</li> </ul> <p>As the machine cancels the job and clears it from the memory it may produce an incomplete printout.</p>
The machine does not change to Direct Print mode when a USB flash memory drive is connected to the USB direct interface.	When the machine is in Deep Sleep mode, the machine does not wake up when a USB flash memory drive is connected to the USB direct interface. Press the LCD surface or any key to wake up the machine. Then press <b>Direct Print</b> on the LCD to display the Direct Print menu.

## Scanning difficulties

Difficulties	Suggestions
TWAIN errors appear while scanning.	Make sure that the Brother TWAIN driver is chosen as the primary source. In PaperPort™ 12SE, click <b>File, Scan or Get Photo</b> and choose the Brother TWAIN driver.
OCR does not work.	Try increasing the scanning resolution.  (Macintosh users) Presto! PageManager must be downloaded and installed before use. See <i>Accessing Brother Support (Macintosh)</i> on page 4 for further instructions.
Network scanning does not work.	See <i>Network difficulties</i> on page 110.
Cannot scan.	Contact your administrator to check your Secure Function Lock Settings.

## Software difficulties

Difficulties	Suggestions
Cannot install software or print.	Run the <b>Repair MFL-Pro Suite</b> 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 quality. (See <i>Basic tab</i> in the <i>Software User's Guide</i> .)



## Paper handling difficulties

Difficulties	Suggestions
The machine does not feed paper.  The LCD shows No Paper or a Paper Jam message.	<ul style="list-style-type: none"> <li>■ If there is no paper, load a new stack of paper into the paper tray.</li> <li>■ 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.</li> <li>■ Reduce the amount of paper in the paper tray, and then try again.</li> <li>■ Make sure that manual feed mode is not chosen in the printer driver.</li> <li>■ Clean the paper pick-up roller. See <i>Cleaning the paper pick-up rollers</i> on page 83.</li> <li>■ If the LCD shows the Paper Jam message and you still have a problem, see <i>Error and maintenance messages</i> on page 87.</li> </ul>
The machine does not feed paper from the MP tray.	<ul style="list-style-type: none"> <li>■ Make sure that <b>MP tray</b> is chosen in the printer driver.</li> <li>■ Fan the paper well and put it back in the tray firmly.</li> </ul>
How do I print on envelopes?	You can load envelopes in 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.)
What paper can I use?	You can use thin paper, plain paper, thick paper, bond paper, recycled paper, glossy paper, envelopes and labels that are made for laser machines. (For details, see <i>Acceptable paper and other print media</i> on page 20.)
There is a paper jam.	Clear the jammed paper. (See <i>Error and maintenance messages</i> on page 87.)

## Print quality difficulties

Difficulties	Suggestions
Printed pages are curled.	<ul style="list-style-type: none"> <li>■ 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.</li> <li>■ Make sure that you choose the Paper Type that suits the print media type you are using. (See <i>Acceptable paper and other print media</i> on page 20.)</li> </ul>
Printed pages are smeared.	The Paper Type setting may be incorrect for the type of print media you are using, or the print media may be too thick or have a rough surface. (See <i>Acceptable paper and other print media</i> on page 20 and <i>Basic tab</i> in the <i>Software User's Guide</i> .)
Printouts are too light.	<ul style="list-style-type: none"> <li>■ If this problem occurs when making copies, set Toner Save mode to <b>OFF</b> in the machine menu settings. (See <i>Toner Save</i> in <i>Chapter 1</i> of the <i>Advanced User's Guide</i>.)</li> <li>■ Remove the check in the <b>Toner Save Mode</b> check box in the <b>Advanced</b> tab in the printer driver. (See <i>Advanced tab</i> in the <i>Software User's Guide</i>.)</li> <li>■ In the <b>Basic</b> tab of the printer driver, click the <b>Settings</b> button and check the <b>Enhance Black Printing</b> check box.</li> </ul>

## Network difficulties

Difficulties	Suggestions
Cannot print over a wired Network.	<p>If you are having Network problems, see the <i>Network User's Guide</i> for more information.</p> <p>Make sure your machine is powered on and is on-line and in the Ready mode. Print the Network Configuration Report to see your current Network settings. (See <i>Reports</i> in <i>Chapter 3</i> of the <i>Advanced User's Guide</i>.) Reconnect the LAN cable to the hub to verify that the cable and network connections are good. If possible, try connecting the machine to a different port on your hub using a different cable. You can check the current wired network status from the Network control panel menu.</p>
The network scanning feature does not work.	<p><b>(Windows®)</b></p> <p>It is necessary to set the third-party Security/Firewall Software to allow Network scanning. To add port 54925 for Network scanning, enter the information below:</p> <ul style="list-style-type: none"> <li>■ In Name: Enter any description, for example Brother NetScan.</li> <li>■ In Port number: Enter 54925.</li> <li>■ In Protocol: UDP is selected.</li> </ul> <p>Please refer to the instruction manual that came with your third-party Security/Firewall Software or contact the software manufacturer.</p> <p>For more details, you can read FAQs and troubleshooting suggestions at <a href="http://solutions.brother.com/">http://solutions.brother.com/</a>.</p> <p><b>(Macintosh)</b></p> <ul style="list-style-type: none"> <li>■ The network scanning feature may not work due to the firewall settings. Change or disable the firewall settings. If you are using a third-party personal Firewall software, see the User's Guide for your software or contact the software manufacturer.</li> <li>■ Re-select your machine in the <b>Device Selector</b> application located in <b>Macintosh HD/Library/Printers/Brother/Utilities/DeviceSelector</b> or from the model list in <b>ControlCenter2</b>.</li> </ul>
Your computer cannot find your machine.	<p><b>(Windows®)</b></p> <p>The firewall setting on your PC may be rejecting the necessary network connection. (For details, see the instructions above.)</p> <p><b>(Macintosh)</b></p> <ul style="list-style-type: none"> <li>■ The computer may be unable to detect the machine due to the firewall settings. Change or disable the firewall settings. If you are using a third-party personal Firewall software, see the User's Guide for your software or contact the software manufacturer.</li> <li>■ Re-select your machine in the <b>Device Selector</b> application located in <b>Macintosh HD/Library/Printers/Brother/Utilities/DeviceSelector</b> or from the Model pop-up menu of <b>ControlCenter2</b>.</li> </ul>

**Other**

Difficulties	Suggestions
The machine will not turn on.	<p>Adverse conditions on the power connection (such as lightning or a power surge) may have triggered the machine's internal safety mechanisms. Turn the machine off and unplug the power cord. Wait for ten minutes, then plug in the power cord and turn the machine on.</p> <p>If the problem is not solved, turn off the machine. Plug the power cord into a different known working outlet and turn on the machine.</p>

# Improving the print quality

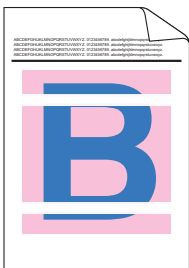

If you have a print quality problem, print a test page first (MENU, Printer, Print Options, Test Print). If the printout looks good, the problem is probably not the machine. Check the interface cable connections or try printing a different document. If the printout or test page printed from the machine has a quality problem, check the following steps first. And then, if you still have a print quality problem, check the chart below and follow the recommendations.

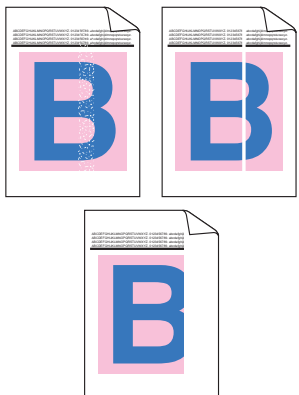
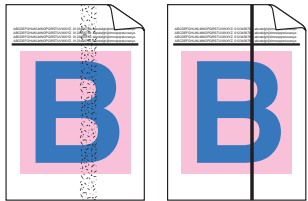
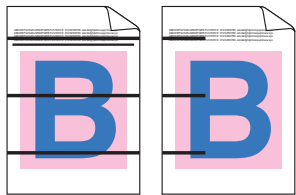



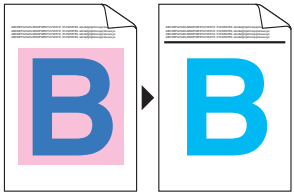
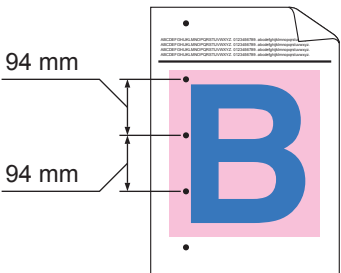
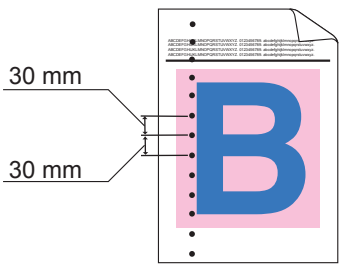

## Note

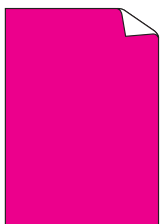
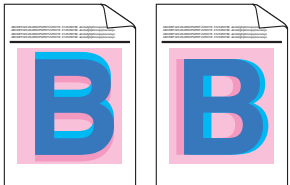
Brother does not recommend the use of cartridges other than Brother Original cartridges or the refilling of used cartridges with toner from other sources.




- 1 To get the best print quality, we suggest using the recommended paper. Check that you use paper that meets our specifications. (See *Acceptable paper and other print media* on page 20.)
- 2 Check that the drum unit and toner cartridges are installed properly.

Examples of poor print quality	Recommendation
<p>White lines, bands or ribbing across the page</p> 	<ul style="list-style-type: none"><li>■ Put in a new drum unit. (See <i>Replacing the drum unit</i> on page 49.)</li></ul>
<p>Colours are light or unclear on the whole page</p> 	<ul style="list-style-type: none"><li>■ Make sure Toner Save mode is off in the control panel of the machine or the printer driver.</li><li>■ 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 print media</i> on page 20 and <i>Basic tab</i> in the <i>Software User's Guide</i>.)</li><li>■ Shake all four toner cartridges gently.</li><li>■ Wipe the laser scanner windows with a dry lint-free soft cloth. (See <i>Cleaning the laser scanner windows</i> on page 69.)</li><li>■ Perform the calibration. (See <i>Calibration</i> on page 84.)</li></ul>

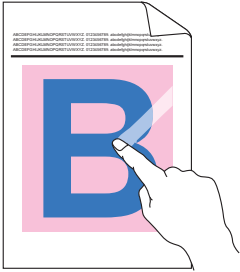
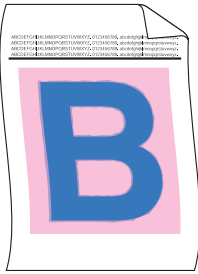
Examples of poor print quality	Recommendation
<p>White streaks or bands down the page</p> 	<ul style="list-style-type: none"> <li>■ Clean the scanner glass and scanner glass strip. (See <i>Cleaning the scanner glass</i> on page 68.)</li> <li>■ Wipe the laser scanner windows with a dry lint-free soft cloth. (See <i>Cleaning the laser scanner windows</i> on page 69.)</li> <li>■ Clean the drum unit. (See <i>Cleaning the drum unit</i> on page 77.)</li> <li>■ Identify the missing colour and put in a new toner cartridge. (See <i>Replacing a Toner cartridge</i> on page 42.) To identify the colour of the toner cartridge, visit us at <a href="http://solutions.brother.com/">http://solutions.brother.com/</a> to view our FAQs and troubleshooting tips.</li> </ul>
<p>Coloured streaks or bands down the page</p> 	<ul style="list-style-type: none"> <li>■ Clean all four corona wires (one for each colour) inside the drum unit by sliding the green tab. (See <i>Cleaning the corona wires</i> on page 73.)</li> <li>■ Make sure the corona wire green tabs are at their home positions (▲).</li> <li>■ Clean the scanner glass and scanner glass strip. (See <i>Cleaning the scanner glass</i> on page 68.)</li> <li>■ Replace the toner cartridge that matches the colour of the streak or band. (See <i>Replacing a Toner cartridge</i> on page 42.) To identify the colour of the toner cartridge, visit us at <a href="http://solutions.brother.com/">http://solutions.brother.com/</a> to view our FAQs and troubleshooting tips.</li> <li>■ Put in a new drum unit. (See <i>Replacing the drum unit</i> on page 49.)</li> </ul>
<p>Coloured lines across the page</p> 	<ul style="list-style-type: none"> <li>■ If coloured lines appear at 30 mm intervals, replace the toner cartridge that matches the colour of the line. (See <i>Replacing a Toner cartridge</i> on page 42.) To identify the colour of the toner cartridge, visit us at <a href="http://solutions.brother.com/">http://solutions.brother.com/</a> to view our FAQs and troubleshooting tips.</li> <li>■ If coloured lines appear at 94 mm intervals, put in a new drum unit. (See <i>Replacing the drum unit</i> on page 49.)</li> </ul>
<p>White spots or hollow print</p> 	<ul style="list-style-type: none"> <li>■ Clean the drum unit. (See <i>Cleaning the drum unit</i> on page 77.)</li> <li>■ Make sure that the media type settings in the printer driver and in the machine's Paper Type menu match the type of paper you are using. (See <i>Acceptable paper and other print media</i> on page 20 and <i>Basic tab</i> in the <i>Software User's Guide</i>.)</li> <li>■ Check the machine's environment. Conditions such as high humidity can cause white spots or hollow print. (See <i>Choosing a location</i> in the <i>Safety and Legal Booklet</i>.)</li> </ul>


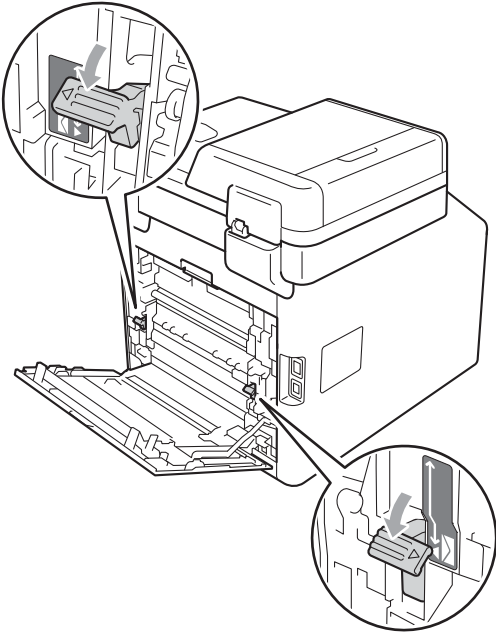
Examples of poor print quality	Recommendation
<p>Completely blank or some colours are missing</p> 	<ul style="list-style-type: none"> <li>■ Put in a new toner cartridge. (See <i>Replacing a Toner cartridge</i> on page 42.) To identify the colour of the toner cartridge, visit us at <a href="http://solutions.brother.com/">http://solutions.brother.com/</a> to view our FAQs and troubleshooting tips.</li> <li>■ Put in a new drum unit. (See <i>Replacing the drum unit</i> on page 49.)</li> </ul>
<p>Coloured spots at 94 mm</p> 	<ul style="list-style-type: none"> <li>■ If the problem is not solved after printing, the drum may have foreign material, such as glue from a label, stuck on the drum surface. Clean the drum unit. (See <i>Cleaning the drum unit</i> on page 77.)</li> <li>■ Put in a new drum unit. (See <i>Replacing the drum unit</i> on page 49.)</li> </ul>
<p>Coloured spots at 30 mm</p> 	<ul style="list-style-type: none"> <li>■ Identify the colour causing the problem and put in a new toner cartridge. (See <i>Replacing a Toner cartridge</i> on page 42.) To identify the colour of the toner cartridge, visit us at <a href="http://solutions.brother.com/">http://solutions.brother.com/</a> to view our FAQs and troubleshooting tips.</li> </ul>
<p>Toner scatter or toner stain</p> 	<ul style="list-style-type: none"> <li>■ Check the machine's environment. Conditions such as high humidity and high temperatures may cause this print quality problem. (See <i>Choosing a location</i> in the <i>Safety and Legal Booklet</i>.)</li> <li>■ Identify the colour causing the problem and put in a new toner cartridge. (See <i>Replacing a Toner cartridge</i> on page 42.) To identify the colour of the toner cartridge, visit us at <a href="http://solutions.brother.com/">http://solutions.brother.com/</a> to view our FAQs and troubleshooting tips.</li> <li>■ If the problem continues, put in a new drum unit. (See <i>Replacing the drum unit</i> on page 49.)</li> </ul>

Examples of poor print quality	Recommendation
<p>The colour of your printouts is not what you expected</p>	<ul style="list-style-type: none"> <li>■ Make sure <b>Toner Save</b> mode is off in the control panel of the machine or the printer driver.</li> <li>■ Perform the calibration. (See <i>Calibration</i> on page 84.)</li> <li>■ Adjust the colour by using the custom setting in the printer driver and by using the control panel of the machine. Colours the machine can print and colours you see on a monitor are different. The machine may not be able to reproduce the colours on your monitor.</li> <li>■ If colours appear in the printed grey areas, make sure there is a check in the <b>Improve Grey Colour</b> check box of the printer driver. (See <i>Basic tab</i> for Windows® printer driver, <i>Advanced tab</i> for Macintosh printer driver or <i>Features</i> for Macintosh BR-Script printer driver in the <i>Software User's Guide</i>.)</li> <li>■ If shaded areas look dull, remove the check from the <b>Improve Grey Colour</b> check box.</li> <li>■ If a printed black graphic is too light, choose <b>Enhance Black Printing</b> mode in the printer driver. (See <i>Settings Dialog</i> for Windows® printer driver, <i>Advanced options</i> for Windows® BR-Script printer driver, <i>Print Settings</i> for Macintosh printer driver or <i>Printer Features</i> for Macintosh BR-Script printer driver in the <i>Software User's Guide</i>.)</li> <li>■ Identify the colour causing the problem and put in a new toner cartridge. (See <i>Replacing a Toner cartridge</i> on page 42.)</li> <li>■ Put in a new drum unit. (See <i>Replacing the drum unit</i> on page 49.)</li> </ul>
<p>All one colour</p> 	<ul style="list-style-type: none"> <li>■ Put in a new drum unit. (See <i>Replacing the drum unit</i> on page 49.)</li> </ul>
<p>Colour misregistration</p> 	<ul style="list-style-type: none"> <li>■ Make sure that the machine is on a solid level surface.</li> <li>■ Perform the auto colour registration using the control panel (see <i>Auto Registration</i> on page 85) or perform the manual colour registration using the control panel (see <i>Manual Registration</i> on page 86).</li> <li>■ Put in a new drum unit. (See <i>Replacing the drum unit</i> on page 49.)</li> <li>■ Put in a new belt unit. (See <i>Replacing the belt unit</i> on page 54.)</li> </ul>

Examples of poor print quality	Recommendation
<p>Uneven density appears periodically across the page</p> 	<ul style="list-style-type: none"> <li>■ Perform the calibration. (See <i>Calibration</i> on page 84.)</li> <li>■ Clean the scanner glass and scanner glass strip. (See <i>Cleaning the scanner glass</i> on page 68.)</li> <li>■ Identify the colour that is uneven and put in a new toner cartridge for that colour. (See <i>Replacing a Toner cartridge</i> on page 42.) To identify the colour of the toner cartridge, visit us at <a href="http://solutions.brother.com/">http://solutions.brother.com/</a> to view our FAQs and troubleshooting tips.</li> <li>■ Put in a new drum unit. (See <i>Replacing the drum unit</i> on page 49.)</li> </ul>
<p>Thin lines do not print</p>	<ul style="list-style-type: none"> <li>■ Make sure Toner Save mode is off in the control panel of the machine or the printer driver.</li> <li>■ Change the print resolution.</li> <li>■ If you use a Windows® printer driver, choose <b>Improve Pattern Printing</b> or <b>Improve Thin Line</b> in <b>Settings</b> from the <b>Basic</b> tab. (See <i>Settings Dialog</i> in the <i>Software User's Guide</i>.)</li> </ul>
<p>Wrinkle</p> 	<ul style="list-style-type: none"> <li>■ Change to the recommended type of paper. (See <i>Recommended paper and print media</i> on page 20 .)</li> <li>■ Make sure that the back cover is closed properly.</li> <li>■ Make sure that the two grey levers inside the back cover are in the up position. When you are using thick paper or envelopes, make sure the grey levers are in the down position to prevent wrinkling.</li> <li>■ Make sure that the media type settings in the printer driver and in the machine's Paper Type menu matches the type of paper you are using. (See <i>Acceptable paper and other print media</i> on page 20 and <i>Basic tab</i> in the <i>Software User's Guide</i>.)</li> </ul>
<p>Offset image</p> 	<ul style="list-style-type: none"> <li>■ Make sure that the media type settings in the printer driver and in the machine's Paper Type menu matches the type of paper you are using. (See <i>Acceptable paper and other print media</i> on page 20 and <i>Basic tab</i> in the <i>Software User's Guide</i>.)</li> <li>■ Make sure that the two grey levers inside the back cover are in the up position.</li> <li>■ Check the machine's environment. Conditions such as low humidity and low temperatures may cause this print quality problem. (See <i>Choosing a location</i> in the <i>Safety and Legal Booklet</i>.)</li> <li>■ Put in a new drum unit. (See <i>Replacing the drum unit</i> on page 49.)</li> </ul>



Examples of poor print quality	Recommendation
<p>Poor fixing</p> 	<ul style="list-style-type: none"> <li>■ Make sure that the media type settings in the printer driver and in the machine's Paper Type menu matches the type of paper you are using. (See <i>Acceptable paper and other print media</i> on page 20 and <i>Basic tab</i> in the <i>Software User's Guide</i>.)</li> <li>■ Make sure that the two grey levers inside the back cover are in the up position.</li> <li>■ Choose <b>Improve Toner Fixing</b> mode in the printer driver. (See <i>Other Print Options</i> (For Windows® printer driver), <i>Advanced options</i> (For Windows® BR-Script printer driver), <i>Print Settings</i> (For Macintosh printer driver) or <i>Printer Features</i> (For Macintosh BR-Script printer driver) in the <i>Software User's Guide</i>.) If this selection does not provide enough improvement, change the printer driver setting in <b>Media Type</b> to a thick setting.</li> </ul>
<p>Curled or wavy</p> 	<ul style="list-style-type: none"> <li>■ Choose <b>Reduce Paper Curl</b> mode in the printer driver when you do not use our recommended paper. (See <i>Other Print Options</i> (For Windows® printer driver), <i>Advanced options</i> (For Windows® BR-Script printer driver), <i>Print Settings</i> (For Macintosh printer driver) or <i>Printer Features</i> (For Macintosh BR-Script printer driver) in the <i>Software User's Guide</i>.)</li> <li>■ 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.</li> <li>■ Store the paper where it will not be exposed to avoid high temperatures and high humidity.</li> <li>■ Open the back cover (<i>face-up</i> output tray) for the machine to eject printed pages onto the <i>face-up</i> output tray.</li> </ul>

Examples of poor print quality	Recommendation
<p data-bbox="115 291 307 316">Envelope creases</p> 	<ul style="list-style-type: none"> <li data-bbox="477 291 1212 349">■ Make sure that the two grey envelope levers are pulled down when you are printing envelopes.</li> </ul>  <ul style="list-style-type: none"> <li data-bbox="477 1025 1212 1103">■ If creases occur with the envelope levers in the envelope position, print with the back cover opened and feed one envelope at a time from the MP tray.</li> </ul>

# Machine Information

## Checking the Serial Number

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

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to display  
Machine Info..  
Press Machine Info..
- 3 The machine will display the machine's  
Serial Number on the LCD.
- 4 Press **Stop/Exit**.

## Reset functions

The following reset functions are available:

- 1 **Network**  
You can reset the internal print server back to its default factory settings such as the password and IP address information.
- 2 **All Settings**  
You can reset all the machine settings back to the settings that were default factory settings.  
Brother strongly recommends you perform this operation when you dispose of the machine.



### Note

Unplug the interface cable before you choose **Network** or **All Settings**.

## How to reset the machine

- 1 Press **MENU**.
- 2 Press **▲** or **▼** to display  
Initial Setup.  
Press Initial Setup.
- 3 Press **Reset**.
- 4 Press **Network** or **All settings** to choose the reset function you want to use.
- 5 Do one of the following;
  - To reset the settings, press **Yes** and go to step 6.
  - To exit without making changes, press **No** and go to step 7.
- 6 You will be asked to reboot the machine. Do one of the following;
  - To reboot the machine, press **Yes** for 2 seconds. The machine will begin the reboot.
  - To exit without rebooting the machine, press **No**. Go to step 7.
- 7 Press **Stop/Exit**.



### Note

You can also reset the Network settings by pressing **MENU**, **Network**, **Network Reset**.

## On-screen programming





Your machine is designed to be easy to operate with LCD on-screen programming using the menu buttons on the Touchscreen. User-friendly programming helps you take full advantage of all the menu selections your machine has to offer.

Since your programming is done on the LCD, we have created step-by-step on-screen instructions to help you program your machine. All you need to do is 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 that begins on page 121. These pages list the menu selections and options.


## MENU button and mode keys


	Access the main menu.
 	Access each mode and its menu of temporary settings.
	Exit the menu or stop the current operation.


# Menu table


The menu table will help you understand the menu selections and options that are found in the machine's programs. The factory settings are shown in Bold with an asterisk.



Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
General Setup	Tray Setting	MP Tray	—	Paper Size <b>A4*</b> Letter Legal Executive A5 A5 L A6 B5 B6 Folio Any Paper Type Thin <b>Plain*</b> Thick Thicker Recycled Paper Glossy	Sets the size and type of paper in paper MP tray.	18
<sup>1</sup> See <i>Advanced User's Guide</i>						
 The factory settings are shown in Bold with an asterisk.						


Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
General Setup (Continued)	Tray Setting (Continued)	Tray#1	—	Paper Size <b>A4*</b> Letter Legal Executive A5 A5 L A6 B5 B6 Folio	Sets the size and type of paper in paper tray #1.	18
				Paper Type Thin <b>Plain*</b> Thick Thicker Recycled Paper		
		Tray#2 (This menu only appears if you have the optional tray#2.)	—	Paper Size <b>A4*</b> Letter Legal Executive A5 B5 B6 Folio	Sets the size and type of paper in paper tray #2.	18
				Paper Type Thin <b>Plain*</b> Thick Thicker Recycled Paper		
1 See Advanced User's Guide						
 The factory settings are shown in Bold with an asterisk.						


Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page	
General Setup (Continued)	Tray Setting (Continued)	Tray Use:Copy	—	Tray#1 Only Tray#2 Only MP Only <b>MP&gt;T1&gt;T2*</b> T1>T2>MP (Tray#2 or T2 appears only if you installed the optional paper tray.)	Chooses the tray that will be used for Copy mode.	18	
		Tray Use:Print	—	Tray#1 Only Tray#2 Only MP Only <b>MP&gt;T1&gt;T2*</b> T1>T2>MP (Tray#2 or T2 appears only if you installed the optional paper tray.)	Chooses the tray that will be used for Print mode.	18	
	Beeper	—	—	Off Low <b>Med*</b> High	Adjusts the beeper volume.	9	
	Ecology	Toner Save	—	On <b>Off*</b>	Increases the page yield of the toner cartridge.	See <sup>1</sup> .	
		Sleep Time	—	Range varies depending on models. <b>3 Mins*</b>	Conserves power.		
	LCD Settings	Backlight	—	<b>Light*</b> Med Dark	You can adjust the brightness of the LCD backlight.		
		Dim Timer	—	<b>Off*</b> 10 Secs 20 Secs 30 Secs	You can set how long the LCD backlight stays on for after the last key press.		
	<sup>1</sup> See <i>Advanced User's Guide</i>						
	 The factory settings are shown in Bold with an asterisk.						

Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
General Setup (Continued)	Function Lock	Set Password Lock Off-On Setup ID	—	—	You can restrict selected machine operations for up to 25 restricted users and all other non-authorized Public users.	See <sup>1</sup> .
<sup>1</sup> See <i>Advanced User's Guide</i>						
 The factory settings are shown in Bold with an asterisk.						







Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Printer	Emulation	—	—	<b>Auto*</b> HP LaserJet BR-Script 3	Choose the emulation mode.	See <sup>1</sup> .
	Print Options	Internal Font	—	HP LaserJet BR-Script 3	Prints a list of the machine's internal fonts.	
		Configuration	—	—	Prints a list of the machine's printer settings.	
		Test Print	—	—	Prints a test page.	
	Duplex	—	—	<b>Off*</b> Long Edge Short Edge	Enables or disables duplex printing. You can also choose long edge or short edge duplex printing.	
	Output Color	—	—	<b>Auto*</b> Color B&W	Chooses colour or black & white printed documents. If you choose Auto, the machine selects a suitable option for the document (Color or B&W).	
	Reset Printer	—	—	Yes No	Restores the printer settings to the original factory default settings.	
	Calibration	Calibrate	—	Yes No	Adjusts the colour density or returns the colour calibration to the factory settings.	84
		Reset	—	Yes No		
	Auto Regist.	—	—	Yes No	Adjusts the print position of each colour automatically.	85
<sup>1</sup> See <i>Software User's Guide</i>						
 The factory settings are shown in Bold with an asterisk.						


Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Printer (Continued)	Manual Regist.	Print Chart	—	—	Print the chart to manually check the registration of the colours.	86
		Set Regist.	1 Magenta Left 2 Cyan Left 3 Yellow Left 4 Magenta Center 5 Cyan Center 6 Yellow Center 7 Magenta Right 8 Cyan Right 9 Yellow Right	—	Sets the correction value on the chart you printed from Print Chart.	
	Frequency	—	—	<b>Normal*</b> Low Off	Sets the interval time you want to carry out the auto registration and the calibration.	85
<sup>1</sup> See <i>Software User's Guide</i>						
 The factory settings are shown in Bold with an asterisk.						



Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Print Reports	Journal Report	—	—	—	Prints a list of information about your last 200 outgoing E-Mails.	See <sup>1</sup> .
	User Settings	—	—	—	Lists your settings.	
	Network Config	—	—	—	Lists your Network settings.	
	Drum Dot Print	—	—	—	Prints the drum dot check sheet.	77
<sup>1</sup> See <i>Advanced User's Guide</i>						
 The factory settings are shown in Bold with an asterisk.						



Level 1	Level 2	Level 3	Level 4	Level 5	Options	Descriptions
Network <sup>1</sup>	Wired LAN	TCP/IP	Boot Method	—	<b>Auto*</b> Static RARP BOOTP DHCP	Chooses the BOOT method that best suits your needs.
			(IP Boot Tries)		3 [00000-32767]	Specifies the number of setting trials when the Boot Method allows automatic IP setting.
			IP Address	—	[000-255]. [000-255]. [000-255]. [000-255]	Enter the IP address.
			Subnet Mask	—	[000-255]. [000-255]. [000-255]. [000-255]	Enter the Subnet mask.
			Gateway	—	[000-255]. [000-255]. [000-255]. [000-255]	Enter the Gateway address.
			Node Name	—	BRNXXXXXXXXXXXX	Enter the Node name. (Up to 32 characters)
			WINS Config	—	<b>Auto*</b> Static	Chooses the WINS configuration mode.
			WINS Server	—	Primary [000-255]. [000-255]. [000-255]. [000-255] Secondary [000-255]. [000-255]. [000-255]. [000-255]	Specifies the IP address of the primary or secondary WINS server.
<sup>1</sup> See Network User's Guide						
 The factory settings are shown in Bold with an asterisk.						


Level 1	Level 2	Level 3	Level 4	Level 5	Options	Descriptions
Network <sup>1</sup> (Continued)	Wired LAN (Continued)	TCP/IP (Continued)	DNS Server	—	Primary [000-255]. [000-255]. [000-255]. [000-255]  Secondary [000-255]. [000-255]. [000-255]. [000-255]	Specifies the IP address of the primary or secondary DNS server.
			APIPA	—	On*  Off	Automatically allocates the IP address from the link-local address range.
			IPv6	—	On  Off*	Enable or Disable the IPv6 protocol. If you want to use the IPv6 protocol, visit <a href="http://solutions.brother.com/">http://solutions.brother.com/</a> for more information.
		Ethernet	—	—	Auto*  100B-FD  100B-HD  10B-FD  10B-HD	Chooses the Ethernet link mode.
		Wired Status	—	—	Active 100B-FD  Active 100B-HD  Active 10B-FD  Active 10B-HD  InActive  Wired OFF	You can see the current wired status.
		MAC Address	—	—	—	Shows the MAC address of the machine.
		Set to Default	—	—	Yes  No	Restore the wired network setting to factory default.
		Wired Enable	—	—	On*  Off	Enable or Disable the Wired LAN manually.
		<sup>1</sup> See <i>Network User's Guide</i>				
 The factory settings are shown in Bold with an asterisk.						

Level 1	Level 2	Level 3	Level 4	Level 5	Options	Descriptions
Network <sup>1</sup> (Continued)	E-mail	Mail Address	—	—	—	Enter the mail address. (Up to 60 characters)
		Setup Server	SMTP	SMTP Server	Name (Up to 64 characters) IP Address [000-255]. [000-255]. [000-255]. [000-255]	Enter the SMTP server address.
					SMTP Port 25* [00001-65535]	Enter the SMTP port number.
				Auth. for SMTP	None* SMTP-AUTH POP bef. SMTP	Selects the Security method for E-mail notification.
				SMTP SSL/TLS	None* SSL TLS	You can send or receive an E-mail via an E-mail server that requires secure SSL/TLS communication.
				Verify SMTPCert.	On off*	Verify the SMTP Server Certificate automatically.
			POP3	POP3 Server	Name (Up to 64 characters) IP Address [000-255]. [000-255]. [000-255]. [000-255]	Enter the POP3 server address.
					POP3 Port 110* [00001-65535]	Enter the POP3 port number.
				Mailbox Name	—	Enter the mail box name. (Up to 60 characters)
				Mailbox Pwd	—	Enter the password to login to the POP3 server. (Up to 32 characters)


<sup>1</sup> See *Network User's Guide*



The factory settings are shown in Bold with an asterisk.


Level 1	Level 2	Level 3	Level 4	Level 5	Options	Descriptions
Network <sup>1</sup> (Continued)	E-mail (Continued)	Setup Server (Continued)	POP3 (Continued)	POP3 SSL/TLS	<b>None*</b>  SSL TLS	You can send or receive an E-mail via an E-mail server that requires secure SSL/TLS communication.
				Verify POP3Cert.	On <b>Off*</b>	Verify the POP3 Server Certificate automatically.
				APOP	On <b>Off*</b>	Enables or disables APOP.
		Setup Mail TX	Sender Subject	—	—	Displays the subject that is attached to the Internet Fax data.
			Size Limit	—	On <b>Off*</b>	Limits the size of E-mail documents.
			Notification	—	On <b>Off*</b>	Sends notification messages.
	Network Reset	—	—	—	Yes No	Restore all network settings to factory default.
<sup>1</sup> See <i>Network User's Guide</i>						
 The factory settings are shown in Bold with an asterisk.						




Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Machine Info.	Serial No.	—	—	—	You can check the serial number of your machine.	119
	Page Counter	—	—	Total List Copy Print	You can check the number of total pages the machine has printed during its life.	See <sup>1</sup> .
	Parts Life	Drum	—	—	You can check the percentage of a machine part's life that remains available. (PF Kit 2 appears only if you installed the optional LT-300CL paper tray.)	
		Belt Unit	—	—		
		Fuser	—	—		
		Laser	—	—		
		PF Kit MP	—	—		
		PF Kit 1	—	—		
	PF Kit 2	—	—	—		
<sup>1</sup> See <i>Advanced User's Guide</i>						
 The factory settings are shown in Bold with an asterisk.						

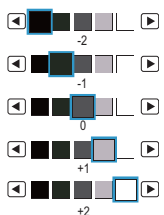
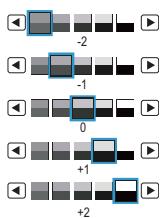
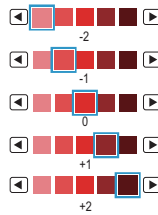



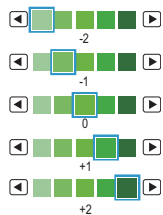
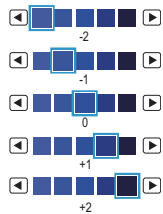



Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Initial Setup	Date&Time	Date&Time	—	—	Puts the date and time on the LCD.	See <sup>2</sup> .
		Auto Daylight	—	On* Off	Changes for Daylight Savings Time automatically.	See <sup>1</sup> .
		Time Zone	—	UTCXXX:XX	Sets the time zone for your country.	See <sup>3</sup> .
	Reset	Network	—	Yes No	Restores all network settings to factory default.	119
		All Settings	—	Yes No	Restores all the machine settings to the factory default.	119
	Local Language	—	—	(Choose your language.)	Allows you to change the LCD language for your country.	See <sup>2</sup> .
<sup>1</sup> See <i>Advanced User's Guide</i> . <sup>2</sup> See <i>Quick Setup Guide</i> . <sup>3</sup> See <i>Network User's Guide</i> .						
 The factory settings are shown in Bold with an asterisk.						

## COPY ( )

Level 1	Level 2	Level 3	Options 1	Options 2	Descriptions	Page
Quality	—	—	<b>Auto*</b> Text Photo Graph	—	You can choose the Copy resolution for your type of document.	See <sup>1</sup> .
Enlarge/ Reduce	—	—	<b>100%*</b>	—	—	
			Enlarge	104% EXE → LTR 141% A5 → A4 200%	You can choose the enlargement ratio for the next copy.	
			Reduce	50% 70% A4 → A5 78% LGL → LTR 83% LGL → A4 85% LTR → EXE 91% Full Page 94% A4 → LTR 97% LTR → A4	You can choose the reduction ratio for the next copy.	
			Custom (25-400%)	—	You can choose the enlargement or reduction ratio for the next copy.	
Duplex Copy	—	—	<b>Off*</b> 2side→2side 1side→2side LongEdgeFlip 2side→1side LongEdgeFlip 1side→2side ShortEdgeFlip 2side→1side ShortEdgeFlip	—	Enables or disables duplex printing. You can also choose long edge or short edge duplex printing.	
<sup>1</sup> See <i>Advanced User's Guide</i>						
 The factory settings are shown in Bold with an asterisk.						

Level 1	Level 2	Level 3	Options 1	Options 2	Descriptions	Page
Tray Use	—	—	Tray#1 Only Tray#2 Only MP Only <b>MP&gt;T1&gt;T2*</b> T1>T2>MP  (Tray#2 or T2 appears only if you installed the optional paper tray.)	—	Chooses the tray that will be used for the copy operation.	See <sup>1</sup> .
Brightness	—	—		—	Adjusts the brightness for copies.	
Contrast	—	—		—	Adjusts the contrast for copies.	
Stack / Sort	—	—	<b>Stack*</b> Sort	—	You can choose to stack or sort multiple copies.	
Page Layout	—	—	<b>Off (1in1)*</b>  2in1 (P) 2in1 (L) 2in1 (ID) 4in1 (P) 4in1 (L)	—	You can make N in 1 and 2 in 1 ID copies.	
Color Adjust	—	—	Red		Adjusts the red colour for copies.	
<sup>1</sup> See <i>Advanced User's Guide</i>						
 The factory settings are shown in Bold with an asterisk.						

Level 1	Level 2	Level 3	Options 1	Options 2	Descriptions	Page
Color Adjust (Continued)	—	—	Green		Adjusts the green colour for copies.	See <sup>1</sup> .
			Blue		Adjusts the blue colour for copies.	
Set New Default	—	—	Quality Brightness Contrast Color Adjust	—	You can save your copy settings as the default settings.	
Factory Reset	—	—	—	—	You can restore all copy settings to the factory settings.	
Favorite Settings	Store	<b>Favorite:1</b>	Rename	Quality	You can save your Favorite settings.	
		<b>Favorite:2</b>	Rename	Enlarge/ Reduce		
		<b>Favorite:3</b>	Rename	Duplex Copy Tray Use Brightness Contrast Stack / Sort Page Layout Color Adjust		
	Rename	<b>Favorite:1</b>	Rename	—	You can rename your Favorite settings.	
		<b>Favorite:2</b>	Rename	—		
		<b>Favorite:3</b>	Rename	—		
Favorite	—	—	Favorite:1 Favorite:2 Favorite:3	—	You can apply your Favorite settings as the default settings.	
<sup>1</sup> See <i>Advanced User's Guide</i>						
 The factory settings are shown in Bold with an asterisk.						


## SCAN ( )


Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Scan to USB	Quality	—	—	Color 100 dpi* Color 200 dpi Color 300 dpi Color 600 dpi Gray 100 dpi Gray 200 dpi Gray 300 dpi B&W 200 dpi B&W 200x100 dpi	You can choose the scan resolution and file format for your document.	See <sup>1</sup> .
	File Type	—	—	(If you chose a Colour or Grey option in the Quality setting)  <b>PDF*</b> PDF/A Secure PDF Signed PDF JPEG XPS  (If you chose a B&W option in the Quality setting)  <b>PDF*</b> PDF/A Secure PDF Signed PDF TIFF		
	Duplex Scan	—	—	<b>Off*</b> DuplexScan :LongEdge DuplexScan :ShortEdge	Chooses the duplex scanning format.	
	File Name	—	—	—	Enter a file name for the scanned data.	


<sup>1</sup> Software User's Guide





The factory settings are shown in Bold with an asterisk.



Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Scan to USB (Continued)	Glass ScanSize	—	—	<b>A4*</b> Letter Legal/Folio	To scan a Letter, Legal or Folio size document, you'll need to change the Glass Scan Size setting.	See <sup>1</sup> .
	File Size	—	—	Small <b>Middle*</b> Large	You can choose the file size for colour or greyscale scanning.	
	Set New Default	—	—	Quality File Type Glass ScanSize File Size	You can save your scan to USB settings as the default settings.	
	Factory Reset	—	—	—	You can restore all scan to USB settings to the factory settings.	
Scan to Network	(Profile Name)	Quality	—	Color 100 dpi* Color 200 dpi Color 300 dpi Color 600 dpi Gray 100 dpi Gray 200 dpi Gray 300 dpi B&W 200 dpi B&W 200x100 dpi	You can choose the scan resolution and file format for your document.	
		File Type	—	(If you chose a Colour or Grey option in the Quality setting) <b>PDF*</b> PDF/A Secure PDF Signed PDF JPEG XPS		
<sup>1</sup> Software User's Guide						
 The factory settings are shown in Bold with an asterisk.						


Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Scan to Network (Continued)	(Profile Name) (Continued)	File Type (Continued)	—	(If you chose a B&W option in the Quality setting)  <b>PDF*</b>  PDF/A  Secure PDF  Signed PDF  TIFF		See <sup>1</sup> .
		Duplex Scan	—	<b>Off*</b>  DuplexScan :LongEdge  DuplexScan :ShortEdge	Chooses the duplex scanning format.	
		Glass ScanSize	—	<b>A4*</b>  Letter  Legal/Folio	To scan a Letter, Legal or Folio size document, you'll need to change the Glass Scan Size setting.	
		File Size	—	Small  <b>Middle*</b>  Large	You can choose the file size for colour or greyscale scanning.	
		File Name	—	<b>BRNXXXXXXXXXX*</b>  Estimate  Report  Order sheet  Contract sheet  Check  Receipt  <Manual>	You can choose preset file names. If you choose <Manual>, you can name the file as you like.	
<sup>1</sup> Software User's Guide						
 The factory settings are shown in Bold with an asterisk.						

Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Scan to FTP	(Profile Name)	Quality	—	Color 100 dpi* Color 200 dpi Color 300 dpi Color 600 dpi Gray 100 dpi Gray 200 dpi Gray 300 dpi B&W 200 dpi B&W 200x100 dpi	You can choose the scan resolution and file format for your document.	See <sup>1</sup> .
		File Type	—	(If you chose a Colour or Grey option in the Quality setting)  <b>PDF*</b>  PDF/A  Secure PDF  Signed PDF  JPEG  XPS  (If you chose a B&W option in the Quality setting)  <b>PDF*</b>  PDF/A  Secure PDF  Signed PDF  TIFF		
		Duplex Scan	—	<b>Off*</b>  DuplexScan :LongEdge  DuplexScan :ShortEdge	Chooses the duplex scanning format.	
		Glass ScanSize	—	<b>A4*</b>  Letter  Legal/Folio	To scan a Letter, Legal or Folio size document, you'll need to change the Glass Scan Size setting.	
<sup>1</sup> Software User's Guide						
 The factory settings are shown in Bold with an asterisk.						



Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Scan to FTP (Continued)	(Profile Name) (Continued)	File Size	—	Small <b>Middle*</b> Large	You can choose the file size for colour or greyscale scanning.	See <sup>1</sup> .
		File Name	—	<b>BRNXXXXXXXXXX*</b> Estimate Report Order sheet Contract sheet Check Receipt <Manual>	You can choose preset file names. If you choose <Manual>, you can name the file as you like.	
Scan to E-mail	Manual/ 	Quality	—	Color 100 dpi* Color 200 dpi Color 300 dpi Color 600 dpi Gray 100 dpi Gray 200 dpi Gray 300 dpi B&W 200 dpi B&W 200x100 dpi	You can choose the scan resolution and file format for your document.	
		File Type	—	(If you chose a Colour or Grey option in the Quality setting) <b>PDF*</b> PDF/A Secure PDF Signed PDF JPEG XPS		
<sup>1</sup> Software User's Guide						
 The factory settings are shown in Bold with an asterisk.						

Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Scan to E-mail (Continued)	Manual/  (Continued)	File Type (Continued)	—	(If you chose a B&W option in the Quality setting)  <b>PDF*</b> PDF/A Secure PDF Signed PDF TIFF		See <sup>1</sup> .
		Duplex Scan	—	<b>Off*</b> DuplexScan :LongEdge DuplexScan :ShortEdge	Chooses the duplex scanning format.	
		Glass ScanSize	—	<b>A4*</b> Letter Legal/Folio	To scan a Letter, Legal or Folio size document, you'll need to change the Glass Scan Size setting.	
		File Size	—	Small <b>Middle*</b> Large	You can choose the file size for colour or greyscale scanning.	
		Number of Destinations	—	—	You can add multiple destination E-mail addresses.	
		Set New Default	—	Quality File Type Glass ScanSize File size	You can save your scan to E-mail settings as the default settings.	
		Factory Reset	—	—	You can restore all scan to E-mail settings to the factory settings.	
Scan to PC	E-mail	—	—	—	You can scan a monochrome or a colour document into your E-mail application.	
	Image	—	—	—	You can scan a colour picture into your graphics application.	
<sup>1</sup> Software User's Guide						
 The factory settings are shown in Bold with an asterisk.						

Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Scan to PC (Continued)	OCR	—	—	—	You can have your text document converted to an editable text file.	See <sup>1</sup> .
	File	—	—	—	You can scan a monochrome or a colour document into your computer.	
<sup>1</sup> <i>Software User's Guide</i>						
 The factory settings are shown in Bold with an asterisk.						

## Other Functions

Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Direct Print	(Select File)	Print Settings/ (Copy Pages (001–999))	Paper Size	<b>A4*</b> Letter Legal Executive A5 A5 L A6 B5 B6 Folio	Sets the paper size when printing directly from the USB flash memory drive.	29
			Paper Type	Thin <b>Plain*</b> Thick Thicker Recycled Paper Glossy	Sets the print media type when printing directly from the USB flash memory drive.	29
			Multiple Page	<b>1in1*</b> 2in1 4in1 9in1 16in1 25in1 1 in 2x2 pages 1 in 3x3 pages 1 in 4x4 pages 1 in 5x5 pages	Sets the page layout when printing multiple pages directly from the USB Flash memory drive.	29
			Orientation	<b>Portrait*</b> Landscape	Sets the page orientation when printing directly from the USB Flash memory drive.	29
			Duplex	<b>Off*</b> Long Edge Short Edge	Chooses the duplex print format when printing directly from the USB Flash memory drive.	29

<sup>1</sup> See *Software User's Guide*



The factory settings are shown in Bold with an asterisk.

The **Direct Print** menu appears when a USB flash memory drive is connected to the USB direct interface.

Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Direct Print (Continued)	(Select File) (Continued)	Print Settings/ (Copy Pages (001–999)) (Continued)	Collate	<b>On*</b>  Off	Enables or disables the page collation when printing directly from the USB Flash memory drive.	29
			Tray Use	<b>Auto*</b>  MP Only  Tray#1 Only  Tray#2 Only  (Tray#2 appears only if you installed the optional paper tray.)	Chooses the tray when printing directly from the USB Flash memory drive.	29
			Print Quality	<b>Normal*</b>  Fine	Sets the print quality option when printing directly from the USB Flash memory drive.	29
			PDF Option	<b>Document*</b>  Document&Markup  Document&Stamps	Sets the USB direct print setting whether to print comments (Markup) or stamps in the PDF file along with the text.	29
	Index Print	—	—	—	You can print a thumbnail page.	30
	Default settings	Paper Size	—	<b>A4*</b>  Letter  Legal  Executive  A5  A5 L  A6  B5  B6  Folio	Sets the default paper size when printing directly from the USB flash memory drive.	30

<sup>1</sup> See *Software User's Guide*



The factory settings are shown in Bold with an asterisk.

The **Direct Print** menu appears when a USB flash memory drive is connected to the USB direct interface.


Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
Direct Print (Continued)	Default settings (Continued)	Paper Type	—	Thin <b>Plain*</b> Thick Thicker Recycled Paper Glossy	Sets the default media type when printing directly from the USB flash memory drive.	30
		Multiple Page	—	<b>1in1*</b> 2in1 4in1 9in1 16in1 25in1 1 in 2x2 pages 1 in 3x3 pages 1 in 4x4 pages 1 in 5x5 pages	Sets the default page style when printing multiple pages directly from the USB Flash memory drive.	30
		Orientation	—	<b>Portrait*</b> Landscape	Sets the default page orientation when printing directly from the USB Flash memory drive.	30
		Collate	—	<b>On*</b> Off	Enables or disables the default page collation when printing directly from the USB Flash memory drive.	30
		Print Quality	—	<b>Normal*</b> Fine	Sets the default print quality option when printing directly from the USB Flash memory drive.	30
		PDF Option	—	<b>Document*</b> Document&Markup Document&Stamps	Sets the default USB direct print setting whether to print comments (Markup) or stamps in the PDF file along with the text.	30
		Index Print	—	<b>Simple*</b> Details	Sets the default index print option, simple format or details.	30

<sup>1</sup> See *Software User's Guide*



The factory settings are shown in Bold with an asterisk.

The **Direct Print** menu appears when a USB flash memory drive is connected to the USB direct interface.

Level 1	Level 2	Level 3	Level 4	Options	Descriptions	Page
<b>Secure Print</b>	(Select User)	(Select Secure Print Job)	<b>Password</b>	Print Delete	You can print data saved in the memory drive when you enter your four-digit password.  (The <b>Secure Print</b> button on the LCD becomes active when there is secure data.)	See <sup>1</sup> .
<sup>1</sup> See <i>Software User's Guide</i>						
 The factory settings are shown in Bold with an asterisk. The <b>Direct Print</b> menu appears when a USB flash memory drive is connected to the USB direct interface.						

## Entering text

When you are setting certain menu selections, you may need to enter text into the machine.

Press **ALT** repeatedly to choose between letters, numbers or special characters. Press **⇧** to change between upper case and lower case.



### Inserting spaces

To enter a space, press the space key button or **►**.

### Making corrections

If you entered an incorrect character and want to change it, use the arrow buttons to move the cursor under the incorrect character. Then press **✕**. Enter the correct character. You can also insert letters by moving the cursor and entering a character.



#### Note

- The characters available may differ depending on your country.
- The keyboard layout may differ depending on the function you are setting.



## General



### Note

This chapter provides a summary of the machine's specifications. For additional specifications visit <http://www.brother.com/> for details.

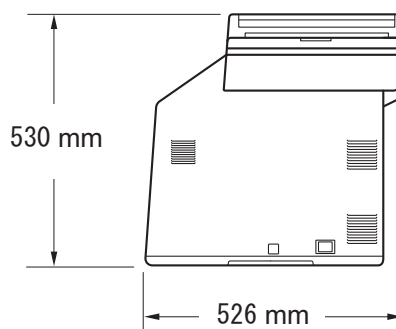
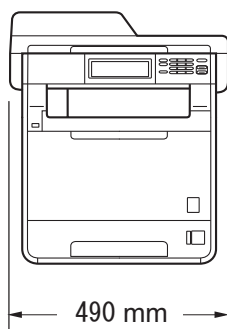
<b>Printer Type</b>	Laser	
<b>Print Method</b>	Electrophotography by semiconductor laser beam scanning	
<b>Memory Capacity</b>	256 MB	
<b>LCD (liquid crystal display)</b>	Touchscreen 5 in. (12.6 cm) Colour LCD <sup>1</sup>	
<b>Power Source</b>	220 - 240 V AC 50/60Hz	
<b>Power Consumption</b> <sup>2</sup>	Peak:	1200 W
	Copying (Average):	Approx. 615 W <sup>3</sup>
	Deep Sleep (Average):	Approx. 1.5W
	Ready (Average):	Approx. 75 W

<sup>1</sup> Measured diagonally

<sup>2</sup> USB connection to PC

<sup>3</sup> When making a copy from one sheet

## Dimensions



## Weight

With Consumables: 28.5 kg

**Noise level****Sound power**<sup>1</sup>

Operating (Colour Copying): LWAd = 6.70 B (A)

Operating (Monochrome Copying): LWAd = 6.67 B (A)

Office equipment with LWAd > 6.30 B (A) is not suitable for use in room where people do primarily intellectual work. Such equipment should be placed in separate rooms because of the noise emission.

Ready: LWAd = 4.21 B (A)

**Sound pressure**

Operating (Printing): LPAm = 57 dB (A)

Ready: LPAm = 33 dB (A)

<sup>1</sup> Measured in accordance with ISO 9296.

**Temperature**

Operating: 10 to 32.5°C

Storage: 0 to 40°C

**Humidity**

Operating: 20 to 80% (without condensation)

Storage: 10 to 90% (without condensation)

**ADF (automatic document feeder)**

Up to 50 pages (Staggered) [80 g/m<sup>2</sup>]

# Document Size

<b>Document Size (Single-sided)</b>	ADF Width:	147.3 to 215.9 mm
	ADF Length:	147.3 to 356.0 mm
	Scanner Glass Width:	Max. 215.9 mm
	Scanner Glass Length:	Max. 355.6 mm
<b>Document Size (2-sided (Duplex))</b>	ADF Width:	147.3 to 215.9 mm
	ADF Length:	147.3 to 356.0 mm

# Print media

Paper Input	<b>Paper Tray</b>	
	■ Paper Type:	Plain paper, Thin paper or Recycled paper
	■ Paper Size:	Letter, A4, B5 (ISO/JIS), A5, A5 (Long Edge), B6 (ISO), A6, Executive, Legal and Folio
	■ Paper Weight:	60 to 105 g/m <sup>2</sup>
	■ Maximum Paper Tray Capacity:	Up to 250 sheets of 80 g/m <sup>2</sup> Plain paper
	<b>Multi-purpose tray (MP tray)</b>	
	■ Paper Type:	Envelope, Env. Thin, Env. Thick, Labels <sup>1</sup> , Glossy paper, Thin paper, Thick paper, Thicker paper, Recycled paper, Bond paper or Plain paper
	■ Paper Size:	Width: 69.8 to 216 mm Length: 116 to 406.4 mm
	■ Paper Weight:	60 to 163 g/m <sup>2</sup>
	■ Maximum Paper Tray Capacity:	Up to 50 sheets of 80 g/m <sup>2</sup> Plain paper
	<b>Paper Tray 2 (option)</b>	
	■ Paper Type:	Plain paper, Thin paper or Recycled paper
	■ Paper Size:	Letter, A4, B5 (ISO/JIS), A5, B6 (ISO), Executive, Legal and Folio
	■ Paper Weight:	60 to 105 g/m <sup>2</sup>
	■ Maximum Paper Tray Capacity:	Up to 500 sheets of 80 g/m <sup>2</sup> Plain paper
Paper Output	<b>Face-Down Output Tray</b>	Up to 150 sheets ( <i>face down</i> print delivery to the <i>face-down</i> output tray)
	<b>Face-Up Output Tray</b>	One sheet ( <i>face up</i> print delivery to the <i>face-up</i> output tray)

**Duplex  
Printing**

■ Manual Duplex:	Yes
■ Automatic Duplex:	Yes
■ Paper Size (Automatic Duplex):	A4
■ Paper Weight (Automatic Duplex):	60 to 105 g/m <sup>2</sup>
■ Paper Type (Automatic Duplex):	Plain paper, Thin paper, Recycled paper or Glossy paper

- <sup>1</sup> For labels, we recommend removing printed pages from the output paper tray immediately after they exit the machine to avoid the possibility of smudging.

# Copy

<b>Colour/Black</b>	Yes/Yes
<b>Copy Width</b>	Max. 210 mm
<b>Automatic 2-sided (Duplex) Copy</b>	Yes (from ADF)
<b>Multiple Copies</b>	Stacks or Sorts up to 99 pages
<b>Reduce/Enlarge</b>	25% to 400% (in increments of 1%)
<b>Resolution</b>	Up to 1200 × 600 dpi
<b>First Copy Out Time (Monochrome)</b>	Less than 19 seconds (from the READY mode and standard tray)
<b>First Copy Out Time (Colour)</b>	Less than 21 seconds (from the READY mode and standard tray)

# Scanner

<b>Colour/Black</b>	Yes/Yes
<b>TWAIN Compliant</b>	Yes (Windows® 2000 Professional/Windows® XP/ Windows® XP Professional x64 Edition/Windows Vista®/ Windows® 7)  Mac OS X 10.4.11 – 10.6.x <sup>1</sup>
<b>WIA Compliant</b>	Yes (Windows® XP/Windows Vista®/Windows® 7)
<b>ICA Compliant</b>	Yes (Mac OS X 10.6.x)
<b>Colour Depth</b>	48 bit internal / 24 bit external colour
<b>Resolution</b>	Up to 19200 × 19200 dpi (interpolated) <sup>2</sup>  Up to 1200 × 2400 dpi (optical) <sup>2</sup> (from Scanner Glass)  Up to 1200 × 600 dpi (optical) <sup>2</sup> (from ADF)
<b>Scanning Width</b>	Max. 210 mm
<b>Automatic 2-sided (Duplex) Scanning</b>	Yes (from ADF)
<b>Greyscale</b>	256 levels

<sup>1</sup> For the latest driver updates for the Mac OS X you are using, visit us at <http://solutions.brother.com/>.

<sup>2</sup> Maximum 1200 × 1200 dpi scanning with the WIA driver in Windows® XP, Windows Vista® and Windows® 7 (resolution up to 19200 × 19200 dpi can be chosen by using the scanner utility)

# Printer

<b>Automatic 2-sided (Duplex) Print</b>	Yes
<b>Emulations</b>	PCL6, BR-Script3 (PostScript® 3™)
<b>Resolution</b>	600 dpi × 600 dpi, 2400 dpi (2400 × 600) quality
<b>Print Speed (Monochrome Duplex)</b>	Up to 14 sides/minute (7 sheets/minute) (A4 size) <sup>1</sup>
<b>Print Speed (Colour Duplex)</b>	Up to 14 sides/minute (7 sheets/minute) (A4 size) <sup>1</sup>
<b>Print Speed (Monochrome)</b>	Up to 28 pages/minute (A4 size) <sup>1</sup>
<b>Print Speed (Colour)</b>	Up to 28 pages/minute (A4 size) <sup>1</sup>
<b>First Print Out Time (Monochrome)</b>	Less than 16 seconds (from the READY mode and standard tray)
<b>First Print Out Time (Colour)</b>	Less than 16 seconds (from the READY mode and standard tray)

<sup>1</sup> The print speed may vary depending on the type of document you print.



# Interfaces

## USB

It is recommended you use a USB 2.0 cable (Type A/B) that is no more than 2 metres long.<sup>1 2</sup>

## Ethernet<sup>3</sup>

Use an Ethernet UTP cable category 5 or greater.

<sup>1</sup> 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.

<sup>2</sup> Third party USB ports are not supported.

<sup>3</sup> See *Network (LAN)* on page 163 and the Network User's Guide for detailed network specifications.

# Direct Print feature

## Compatibility

PDF version 1.7 <sup>1</sup>, JPEG, Exif + JPEG, PRN (created by Brother printer driver), TIFF (scanned by all Brother MFC or DCP models), PostScript® 3™ (created by Brother BR-Script 3 printer driver), XPS version 1.0.

## Interface

USB direct interface

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

## Scan to USB feature

### File formats

Black and white

TIFF, PDF, PDF/A, Secure PDF, Signed PDF

Color and Gray document

JPEG, PDF, PDF/A, Secure PDF, Signed PDF, XPS

# Computer requirements

Minimum System Requirements and Supported PC Software Functions								
Computer Platform & Operating System Version		Processor Minimum Speed	Minimum RAM	Recommended RAM	Hard Disk Space to install		Supported PC Software Functions	Supported PC Interface <sup>3</sup>
					For Drivers	For Applications		
Windows® Operating System <sup>1</sup>	Windows® 2000 Professional <sup>4</sup>	Intel® Pentium® II or equivalent	64 MB	256 MB	150 MB	500 MB	Printing, Scanning	USB, 10/100 Base Tx (Ethernet)
	Windows® XP Home <sup>2 5</sup> Windows® XP Professional <sup>2 5</sup>		128 MB					
	Windows® XP Professional x64 Edition <sup>2 5</sup>	64-bit (Intel® 64 or AMD64) supported CPU	256 MB	512 MB				
	Windows Vista® <sup>2 5</sup>	Intel® Pentium® 4 or equivalent 64-bit (Intel® 64 or AMD64) supported CPU	512 MB	1 GB	500 MB	1.2 GB		
	Windows® 7 <sup>2 5</sup>	Intel® Pentium® 4 or equivalent 64-bit (Intel® 64 or AMD64) supported CPU	1 GB (32-bit) 2 GB (64-bit)	1 GB (32-bit) 2 GB (64-bit)	650 MB			

Minimum System Requirements and Supported PC Software Functions								
Computer Platform & Operating System Version		Processor Minimum Speed	Minimum RAM	Recommended RAM	Hard Disk Space to install		Supported PC Software Functions	Supported PC Interface <sup>3</sup>
					For Drivers	For Applications		
	Windows Server® 2003 (print only via network)	Intel® Pentium® III or equivalent	256 MB	512 MB	50 MB	N/A	Printing	10/100 Base Tx (Ethernet)
	Windows Server® 2003 x64 Edition (print only via network)	64-bit (Intel®64 or AMD64) supported CPU						
	Windows Server® 2008 (print only via network)	Intel® Pentium® 4 or equivalent 64-bit (Intel®64 or AMD64) supported CPU	512 MB	2 GB				
	Windows Server® 2008 R2 (print only via network)	64-bit (Intel®64 or AMD64) supported CPU						
Macintosh Operating System	Mac OS X 10.4.11 10.5.x	PowerPC G4/G5 Intel® Core™ Processor	512 MB	1 GB	80 MB	400 MB	Printing, Scanning	USB, 10/100 Base Tx (Ethernet)
	Mac OS X 10.6.x	Intel® Core™ Processor	1 GB	2 GB				

<sup>1</sup> Internet Explorer<sup>®</sup> 6.0 or greater.

<sup>2</sup> For WIA, 1200 x 1200 resolution. Brother Scanner Utility enables to enhance up to 19200 x 19200 dpi.

<sup>3</sup> Third party USB ports are not supported.

<sup>4</sup> PaperPort™ 11SE supports Microsoft<sup>®</sup> SP4 or higher for Windows<sup>®</sup> 2000. (Available from the Internet)

<sup>5</sup> PaperPort™ 12SE supports Microsoft<sup>®</sup> SP3 or higher for Windows<sup>®</sup> XP and SP2 or higher for Windows Vista<sup>®</sup> and Windows<sup>®</sup> 7.

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

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# Consumable items

<b>Toner Cartridge Life</b>	Standard Toner Cartridge:	
	<b>TN-320BK</b> (Black):	Approx. 2,500 pages (A4 or Letter) <sup>1</sup>
	<b>TN-320C</b> (Cyan):	Approx. 1,500 pages (A4 or Letter) <sup>1</sup>
	<b>TN-320M</b> (Magenta):	Approx. 1,500 pages (A4 or Letter) <sup>1</sup>
	<b>TN-320Y</b> (Yellow):	Approx. 1,500 pages (A4 or Letter) <sup>1</sup>
	High Capacity Toner Cartridge:	
	TN-325BK (Black):	Approx. 4,000 pages (A4 or Letter) <sup>1</sup>
	TN-325C (Cyan):	Approx. 3,500 pages (A4 or Letter) <sup>1</sup>
	TN-325M (Magenta):	Approx. 3,500 pages (A4 or Letter) <sup>1</sup>
	TN-325Y (Yellow):	Approx. 3,500 pages (A4 or Letter) <sup>1</sup>
	Super High Capacity Toner Cartridge:	
	TN-328BK (Black):	Approx. 6,000 pages (A4 or Letter) <sup>1</sup>
	TN-328C (Cyan):	Approx. 6,000 pages (A4 or Letter) <sup>1</sup>
	TN-328M (Magenta):	Approx. 6,000 pages (A4 or Letter) <sup>1</sup>
	TN-328Y (Yellow):	Approx. 6,000 pages (A4 or Letter) <sup>1</sup>
<b>Drum Unit</b>	DR-320CL	Approx. 25,000 pages (A4 or Letter) <sup>2</sup>
<b>Belt Unit</b>	BU-300CL	Approx. 50,000 pages (A4 or Letter) <sup>3</sup>
<b>Waste Toner Box</b>	WT-300CL	Approx. 50,000 pages (A4 or Letter) <sup>3</sup>

<sup>1</sup> Approx. cartridge yield is declared in accordance with ISO/IEC 19798.

<sup>2</sup> Drum yield is approximate, and may vary by type of use.

<sup>3</sup> Approx. yield is based on A4 or Letter single-sided pages.

# Network (LAN)



## Note

For details about the full Network specifications, see *Network User's Guide*.

### LAN

You can connect your machine to a network for Network Printing and Network Scanning. Also included is Brother BRAdmin Light <sup>1</sup> Network Management software.

### Security Protocols

#### ■ Wired

APOP, POP before SMTP, SMTP-AUTH, SSL/TLS (IPPS, HTTPS, SMTP, POP), SNMP v3, 802.1x (EAP-MD5, EAP-FAST, PEAP, EAP-TLS, EAP-TTLS), Kerberos

<sup>1</sup> BRAdmin Professional and Web BRAdmin are available as a download from <http://solutions.brother.com/>.

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