User's Guide

SCX-465x/465xN/4021S/4321NS Series
SCX-465xF/4521FS/4521HS Series
SCX-465xFN/465xHN/4521NS Series

BASIC

This guide provides information concerning installation, basic operation and troubleshooting on windows.

ADVANCED

This guide provides information about installation, advanced configuration, operation and troubleshooting on various OS environments.

Some features may not be available depending on models or countries.

BASIC

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1. Introduction

This chapter provides information you need to know before using the machine.

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- Features by models 7
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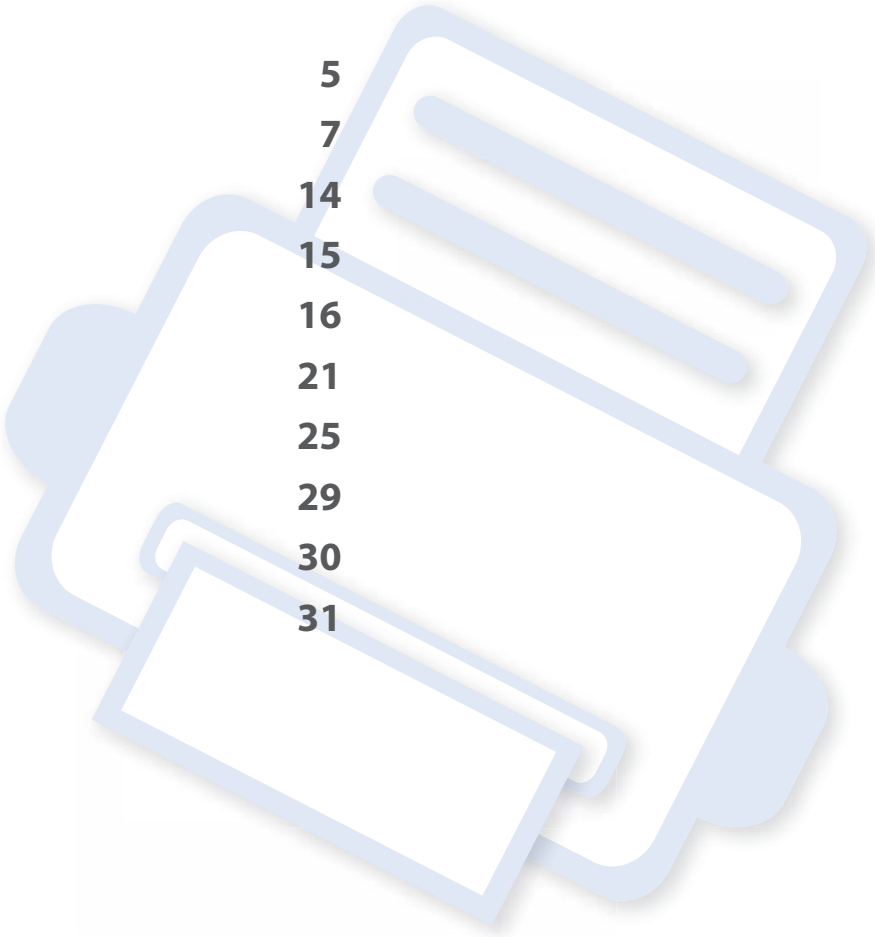


Key benefits

Environmentally friendly

- To save toner and paper, this machine supports Eco feature (see "Eco printing" on page 55).
- To save paper, you can print multiple pages on one single sheet of paper (see "Using advanced print features" on page 169).
- To save paper, you can print on both sides of the paper (double-sided printing) (Manual) (see "Using advanced print features" on page 169).
- To save electricity, this machine automatically conserves electricity by substantially reducing power consumption when not in use.

Fast high resolution printing

- You can print with a resolution of up to 1,200 x 1,200 dpi effective output.
- Fast, on-demand printing.
  - up to 24 ppm (A4/Letter).

Convenience

- Easy Capture Manager allows you to easily edit and print whatever you captured using the Print Screen key on the keyboard (see "Easy Capture Manager" on page 199).
- Samsung Easy Printer Manager and Printing Status is a program that monitors and informs you of the machine's status and allows you to customize the machine's settings (see "Using Samsung Printer Status" on page 213).
- Samsung Easy Document Creator is an application to help users compile and share large documents or other scanned or faxed information digitally. (see "Using Samsung Easy Document Creator" on page 205).
- AnyWeb Print helps you screen-capture, preview, scrap, and print the screen of Windows Internet Explorer more easily, than when you use the ordinary program (see "Samsung AnyWeb Print" on page 200).
- Smart Update allows you to check for the latest software and install the latest version during the printer driver installation process. This is available only for Windows.
- If you have Internet access, you can get help, support application, machine drivers, manuals, and order information from the Samsung website, www.samsung.com > find your product > Support or Downloads.

Key benefits

Wide range of functionality and application support

- Supports various paper sizes (see "Print media specifications" on page 103).
- Print watermark: You can customize your documents with words, such as "**CONFIDENTIAL**" (see "Using advanced print features" on page 169).
- Print posters: The text and pictures of each page of your document are magnified and printed across the multiple sheets of paper and can then be taped together to form a poster (see "Using advanced print features" on page 169).
- You can print in various operating systems (see "System requirements" on page 106).
- Your machine is equipped with a USB interface and/or a network interface.

Features by models

Some features and optional goods may not be available depending on model or country.

Operating System

Operating System	SCX-465x Series SCX-465xN Series SCX-4021S Series SCX-4321NS Series	SCX-465xF Series SCX-4521FS Series SCX-4521HS Series SCX-465xFN Series SCX-465xHN Series SCX-4521NS Series
Windows	●	●
Macintosh	●	●
Linux	●	●
Unix		

(●: Included, Blank: Not available)

Features by models

Software

Software		SCX-465x Series SCX-465xN Series SCX-4021S Series SCX-4321NS Series	SCX-465xF Series SCX-4521FS Series SCX-4521HS Series SCX-465xFN Series SCX-465xHN Series SCX-4521NS Series
SPL printer driver		•	•
PCL printer driver			
PS printer driver			
XPS printer driver		•	•
Direct Printing Utility			
Samsung Easy Printer Manager	Scan to PC settings	•	•
	Fax to PC settings		•
	Device Settings	•	•
Samsung Easy Document Creator		•	•
Samsung Printer Status		•	•
AnyWeb Print		•	•
SyncThru™ Web Service		• (SCX-465xN/4321N Series only)	• (SCX-465xFN/465xHN/4521NS Series only)

Features by models

Software		SCX-465x Series SCX-465xN Series SCX-4021S Series SCX-4321NS Series	SCX-465xF Series SCX-4521FS Series SCX-4521HS Series SCX-465xFN Series SCX-465xHN Series SCX-4521NS Series
SyncThru Admin Web Service		● (SCX-465xN/4321N Series only)	● (SCX-465xFN/465xHN/4521NS Series only)
Easy Eco Driver		●	●
Fax	**Samsung Network PC Fax**		●
Scan	**Twain scan driver**	●	●
	WIA scan driver	●	●
	Samsung Scan Assistant	●	●

(●: Included, Blank: Not available)

Features by models

Variety feature

Features	SCX-465x Series SCX-465xN Series SCX-4021S Series SCX-4321NS Series	SCX-465xF Series SCX-4521FS Series SCX-4521HS Series SCX-465xFN Series SCX-465xHN Series SCX-4521NS Series
Hi-Speed USB 2.0	•	•
Network Interface Ethernet 10/100 Base TX wired LAN	• (SCX-465xN/4321N Series only)	• (SCX-465xFN/465xHN/4521NS Series only)
Eco printing（Control panel)	•	•
Duplex (2-sided) printing (Manual)[a]	•	•
USB memory interface		
Memory module		
Mass Storage Device（HDD)		
Duplex Automatic Document Feeder (DADF)		
Automatic Document Feeder (ADF)	• (SCX-465xN/4321NS Series only)	•

Features by models

Features		SCX-465x Series SCX-465xN Series SCX-4021S Series SCX-4321NS Series	SCX-465xF Series SCX-4521FS Series SCX-4521HS Series SCX-465xFN Series SCX-465xHN Series SCX-4521NS Series
Handset			● (SCX-4655HN/4521HS Series only) (SCX-4521NS Series Chinese model only)
Fax	**Multi-send**		●
	Delay send		●
	Priority send		●
	Duplex send		
	Secure receive		●
	Duplex print		
	Send/ Receive forward - fax		●
	Send/ Receive forward - email		
	Send/ Receive forward - server		

Features by models

Features		SCX-465x Series SCX-465xN Series SCX-4021S Series SCX-4321NS Series	SCX-465xF Series SCX-4521FS Series SCX-4521HS Series SCX-465xFN Series SCX-465xHN Series SCX-4521NS Series
Scan	Scanning to email		
	Scanning to SMB server		
	Scanning to FTP server		
	Duplex scan		
	Scanning to WSD	•	•
	Scan to PC	•	•

Features by models

Features		SCX-465x Series SCX-465xN Series SCX-4021S Series SCX-4321NS Series	SCX-465xF Series SCX-4521FS Series SCX-4521HS Series SCX-465xFN Series SCX-465xHN Series SCX-4521NS Series
Copy	ID card copying	●	●
	Reduced or enlarged copying	●	●
	Collation	●	●
	Poster		
	Clone		
	Book		
	2-up/4-up	●	●
	Adjust background	●	●
	Margin shift		
	Edge erase		
	Gray enhance		
	Duplex copy		

a. Windows only.

(●: Included, Blank: Not available)

Useful to know

The machine does not print.

- Open the print queue list and remove the document from the list (see "Canceling a print job" on page 52).
- Remove the driver and install it again (see "Installing the driver locally" on page 30).
- Select your machine as your default machine in your Windows (see "Setting your machine as a default machine" on page 168).

Where can I purchase accessories or supplies?

- Inquire at a Samsung distributor or your retailer.
- Visit www.samsung.com/supplies. Select your country/region to view product service information.

The status LED flashes or remains constantly on.

- Turn the product off and on again.
- Check the meanings of LED indications in this manual and troubleshoot accordingly (see "Understanding the status LED" on page 92).

A paper jam has occurred.

- Open and close the front door. (see "Front view" on page 22).
- Check the instructions on removing jammed paper in this manual and troubleshoot accordingly (see "Clearing paper jams" on page 90).

Printouts are blurry.

- The toner level might be low or uneven. Shake the toner cartridge (see "Redistributing toner" on page 72).
- Replace the toner cartridge (see "Replacing the toner cartridge" on page 74).

Where can I download the machine's driver?

- You can get help, support application, machine drivers, manuals, and order information from the Samsung website, www.samsung.com > find your product > Support or Downloads.

About this user's guide

This user's guide provides information for your basic understanding of the machine as well as detailed steps to explain machine usage.

- Read the safety information before using the machine.
- If you have a problem using the machine, refer to the troubleshooting chapter.
- Terms used in this user's guide are explained in the glossary chapter.
- All illustrations in this user's guide may differ from your machine depending on its options or model you purchased.
- The screenshots in this administrator's guide may differ from your machine depending on the machine's firmware/driver version.
- The procedures in this user's guide are mainly based on Windows 7.

Conventions

Some terms in this guide are used interchangeably, as below:

- Document is synonymous with original.
- Paper is synonymous with media, or print media.
- Machine refers to printer or MFP.

General icons

Icon	Text	Description
	Caution	Gives users information to protect the machine from possible mechanical damage or malfunction.
	Note	Provides additional information or detailed specification of the machine function and feature.

Safety information

These warnings and precautions are included to prevent injury to you and others, and to prevent any potential damage to your machine. Be sure to read and understand all of these instructions before using the machine. After reading this section, keep it in a safe place for future reference.

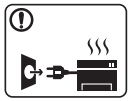
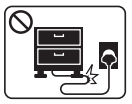
Important safety symbols

Explanation of all icons and signs used in this chapter

	Warning	Hazards or unsafe practices that may result in severe personal injury or death.
	Caution	Hazards or unsafe practices that may result in minor personal injury or property damage.
	Do not attempt.	

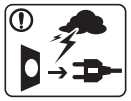
Operating environment

Warning

	Do not use if the power cord is damaged or if the electrical outlet is not grounded. This could result in electric shock or fire.
	Do not place anything on top of the machine (water, small metal or heavy objects, candles, lit cigarettes, etc.). This could result in electric shock or fire.
	• If the machine gets overheated, it releases smoke, makes strange noises, or generates an odd odor, immediately turn off the power switch and unplug the machine. • The user should be able to access the power outlet in case of emergencies that might require the user to pull the plug out. This could result in electric shock or fire.
	Do not bend, or place heavy objects on the power cord. Stepping on or allowing the power cord to be crushed by a heavy object could result in electric shock or fire.
	Do not remove the plug by pulling on the cord; do not handle the plug with wet hands. This could result in electric shock or fire.

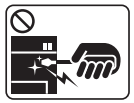
Safety information

Caution

	During an electrical storm or for a period of non-operation, remove the power plug from the electrical outlet. This could result in electric shock or fire.
	Be careful, the paper output area is hot. Burns could occur.
	If the machine has been dropped, or if the cabinet appears damaged, unplug the machine from all interface connections and request assistance from qualified service personnel. Otherwise, this could result in electric shock or fire.
	If the machine does not operate properly after these instructions have been followed, unplug the machine from all interface connections and request assistance from qualified service personnel. Otherwise, this could result in electric shock or fire.
	If the plug does not easily enter the electrical outlet, do not attempt to force it in. Call an electrician to change the electrical outlet, or this could result in electric shock.
	Do not allow pets to chew on the AC power, telephone or PC interface cords. This could result in electric shock or fire and/or injury to your pet.

Operating method

Caution

	Do not forcefully pull the paper out during printing. It can cause damage to the machine.
	Be careful not to put your hand between the machine and paper tray. You may get injured.
	Be care when replacing paper or removing jammed paper. New paper has sharp edges and can cause painful cuts.
	When printing large quantities, the bottom part of the paper output area may get hot. Do not allow children to touch. Burns can occur.
	When removing jammed paper, do not use tweezers or sharp metal objects. It can damage the machine.
	Do not allow too many papers to stack up in the paper output tray. It can damage the machine.

Safety information

	Do not block or push objects into the ventilation opening. This could result in elevated component temperatures which can cause damage or fire.
	Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
	This machine's power reception device is the power cord. To switch off the power supply, remove the power cord from the electrical outlet.

Installation / Moving

Warning

	Do not place the machine in an area with dust, humidity, or water leaks. This could result in electric shock or fire.

Caution

	Before moving the machine, turn the power off and disconnect all cords. The information below are only suggestions based on the units weight. If you have a medical condition that prevents you from lifting, do not lift the machine. Ask for help, and always use the appropriate amount of people to lift the device safety. Then lift the machine: • If the machine weighs under 20 kg (44.09 lbs), lift with 1 person. • If the machine weighs 20 kg (44.09 lbs) - 40kg (88.18 lbs), lift with 2 people. • If the machine weighs more than 40 kg (88.18 lbs), lift with 4 or more people. The machine could fall, causing injury or machine damage.
	Do not place the machine on an unstable surface. The machine could fall, causing injury or machine damage.
	Use only No.26 AWG[a] or larger, telephone line cord, if necessary. Otherwise, it can cause damage to the machine.
	Make sure you plug the power cord into a grounded electrical outlet. Otherwise, this could result in electric shock or fire.

Safety information

	Use the power cord supplied with your machine for safe operation. If you are using a cord which is longer than 2 meters (6 feet) with a 110V machine, then the gauge should be 16 AWG or larger. Otherwise, it can cause damage to the machine, and could result in electric shock or fire.
	Do not put a cover over the machine or place it in an airtight location, such as a closet. If the machine is not well-ventilated, this could result in fire.
	Do not overload wall outlets and extension cords. This can diminish performance, and could result in electric shock or fire.
	The machine should be connected to the power level which is specified on the label. If you are unsure and want to check the power level you are using, contact the electrical utility company.

a. AWG: American Wire Gauge

Maintenance / Checking

Caution

	Unplug this product from the wall outlet before cleaning the inside of the machine. Do not clean the machine with benzene, paint thinner or alcohol; do not spray water directly into the machine. This could result in electric shock or fire.
	When you are working inside the machine replacing supplies or cleaning the inside, do not operate the machine. You could get injured.
	Keep cleaning supplies away from children. Children could get hurt.
	Do not disassemble, repair or rebuild the machine by yourself. It can damage the machine. Call a certified technician when the machine needs repairing.
	To clean and operate the machine, strictly follow the user's guide provided with the machine. Otherwise, you could damage the machine.

Safety information

	Keep the power cable and the contact surface of the plug clean from dust or water. Otherwise, this could result in electric shock or fire.
	• Do not remove any covers or guards that are fastened with screws. • Fuser units should only be repaired by a certified service technician. Repair by non-certified technicians could result in fire or electric shock. • The machine should only be repaired by a Samsung service technician.

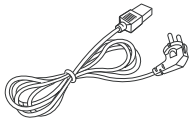
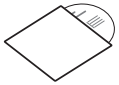
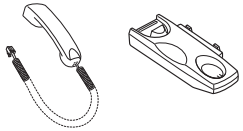
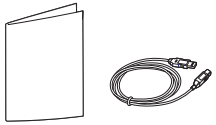
Supply usage

Caution

	Do not disassemble the toner cartridge. Toner dust can be dangerous if inhaled or ingested.
	Do not burn any of the supplies such as toner cartridge or fuser unit. This could cause an explosion or uncontrollable fire.
	When storing supplies such as toner cartridges, keep them away from children. Toner dust can be dangerous if inhaled or ingested.
	Using recycled supplies, such as toner, can cause damage to the machine. In case of damage due to the use of recycled supplies, a service fee will be charged.
	When toner gets on your clothing, do not use hot water to wash it. Hot water sets toner into fabric. Use cold water.
	When changing the toner cartridge or removing jammed paper, be careful not to let toner dust touch your body or clothes. Toner dust can be dangerous if inhaled or ingested.

Machine overview

Accessories

	
Power cord	Quick installation guide
	
Software CD[a]	Handset[b]
	
Misc. accessories[c]	

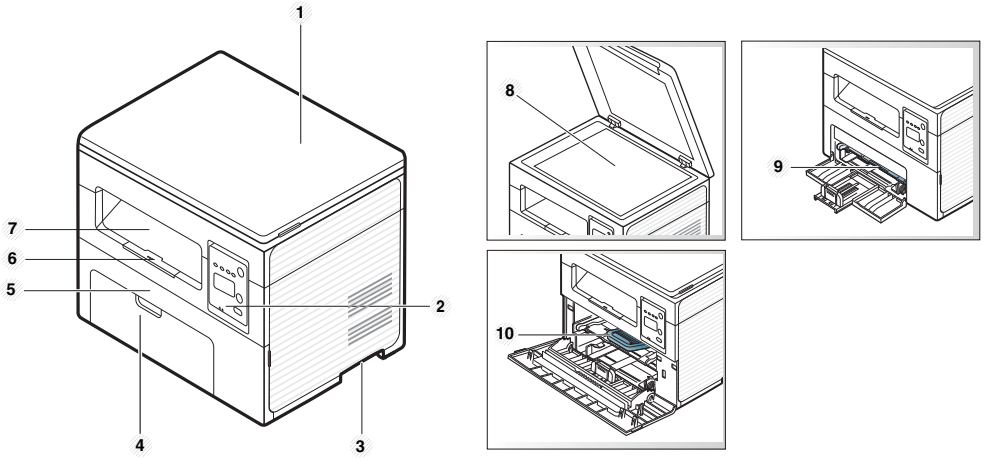
a. The software CD contains the print drivers, user's guide, and software applications.
b. Handset model only (see "Features by models" on page 7).
c. Miscellaneous accessories included with your machine may vary by country of purchase and specific model.

Machine overview

Front view

- This illustration may differ from your machine depending on your model. There are various types of machine.
- Some features and optional goods may not be available depending on model or country (see "Features by models" on page 7).

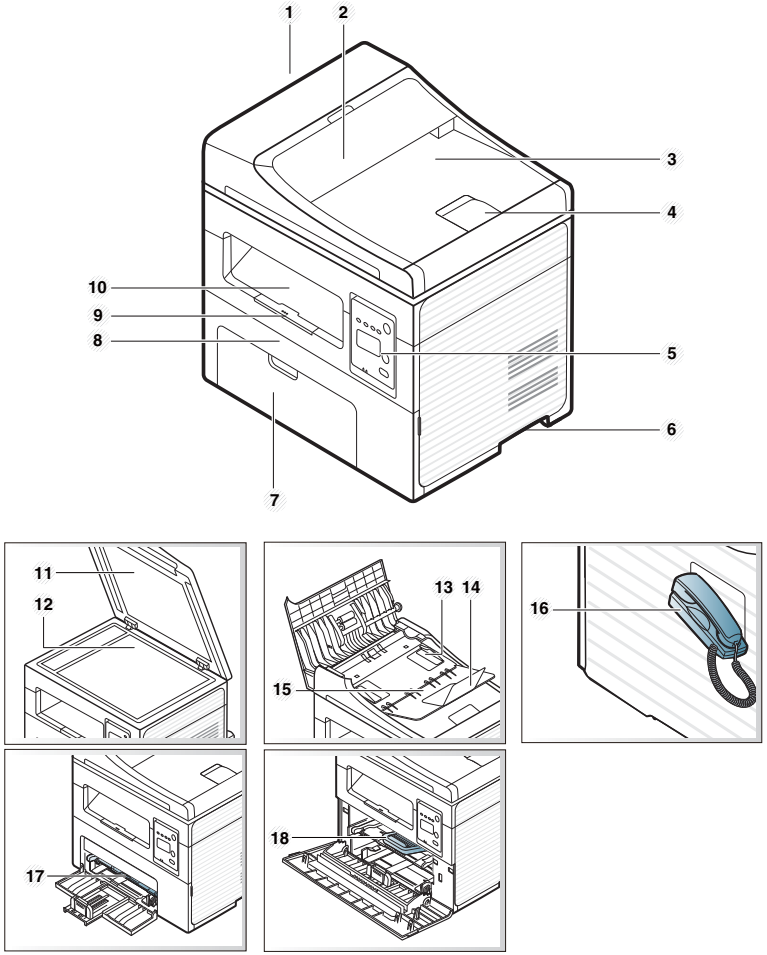
SCX-465x/4021S Series



1	Scanner lid	6	Output support
2	Control panel	7	Output tray
3	Handle	8	Scanner glass
4	Tray	9	Paper width guide on a manual feeder
5	Front cover	10	Toner cartridge

Machine overview

SCX-465xN/4321NS/465xF/4521FS/4521HS/ 465xFN/465xHN/4521NS Series



1	Document feeder cover	11	Scanner lid
2	Document feeder guide cover	12	Scanner glass
3	Document feeder output tray	13	Paper width guide on a document feeder
4	Document feeder output support	14	Document feeder input support
5	Control panel	15	Document feeder input tray
6	Handle	16	Handset[a]
7	Tray	17	Paper width guide on a manual feeder
8	Front cover	18	Toner cartridge
9	Output support		
10	Output tray		

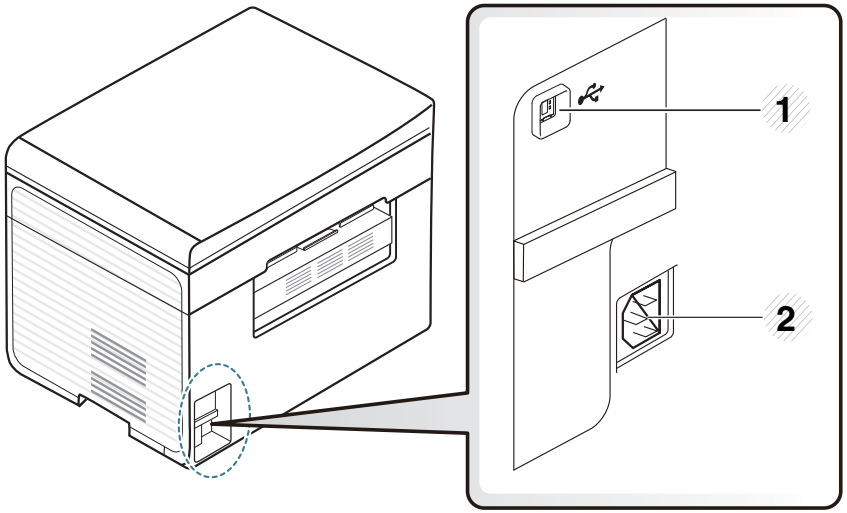
a. Handset model only (see "Features by models" on page 7).

Machine overview

Rear view

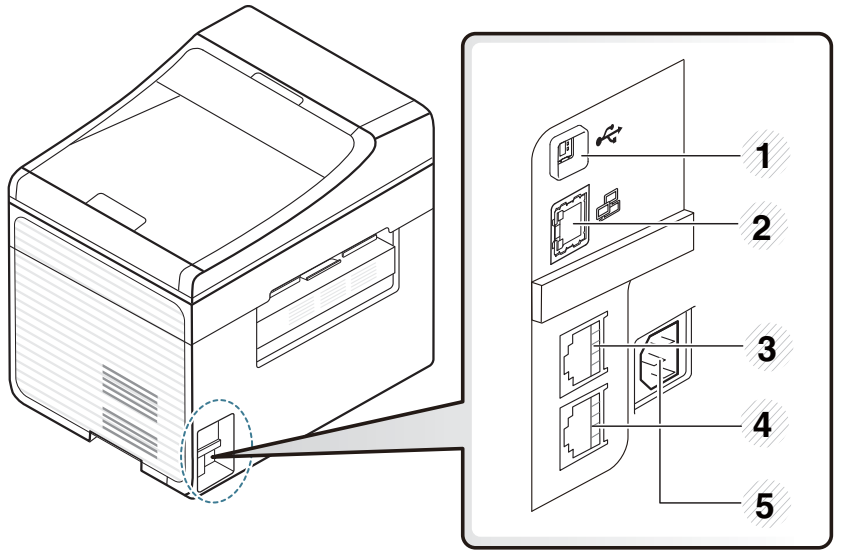
- This illustration may differ from your machine depending on your model. There are various types of machine.
- Some features and optional goods may not be available depending on model or country (see "Features by models" on page 7).

SCX-465x/4021S Series



1	USB port	2	Power receptacle

SCX-465xN/4321NS/465xF/4521FS/4521HS/ 465xFN/465xHN/4521NS Series



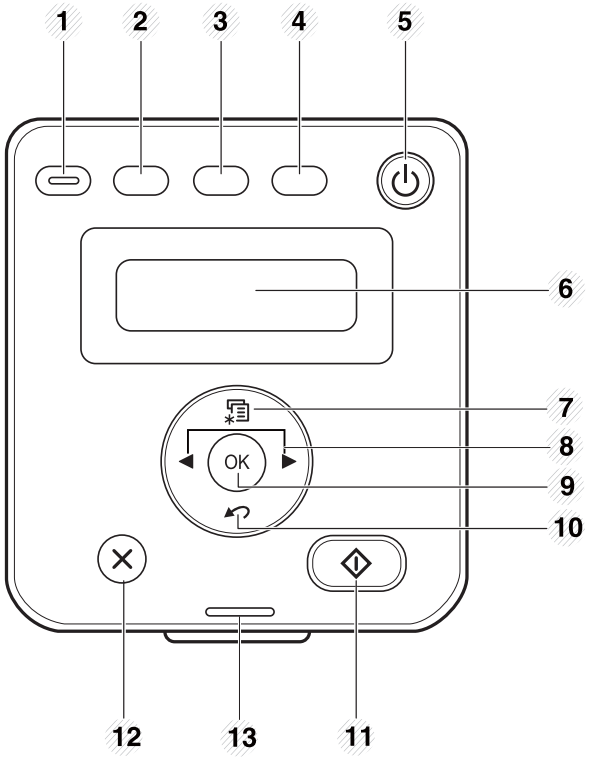
1	USB port
2	Network port[a]
3	Extension telephone socket (**EXT.**)[b]
4	Telephone line socket (**LINE**)[b]
5	Power receptacle

a. SCX-465xN/4321NS/465xFN/465xHN/4521NS Series
b. SCX-465xF/4521FS/4521HS/465xFN/465xHN/4521NS Series

Control panel overview

- This control panel may differ from your machine depending on its model. There are various types of control panels.
- Some features and optional goods may not be available depending on model or country (see "Features by models" on page 7).

SCX-465x/465xN/4021S/4321NS Series

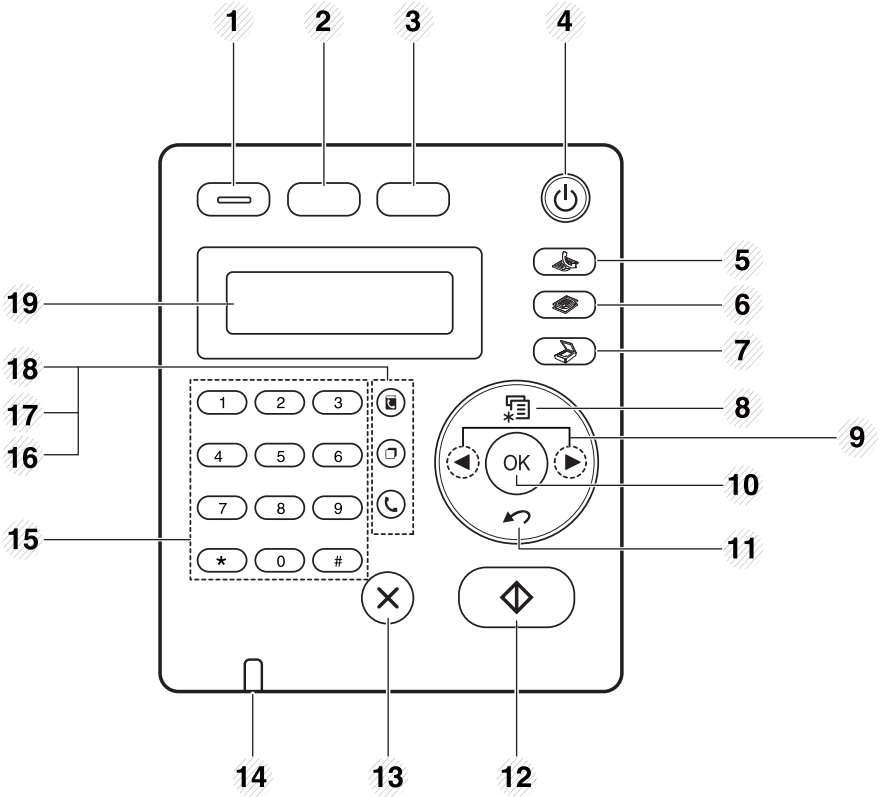


1	**Eco**		Turn into eco mode to reduce toner consumption and paper usage when pc-printing and copying only (see "Eco printing" on page 55).
2	**Darkness**		Adjust the brightness level to make a copy for easier reading, when the original contains faint markings and dark images.
	Print Screen		Press this button and the display will **Print Screen?** on the display screen. If you want to print only the active screen, select the **Active**. If you want to print the whole screen, select **Full**. • **Print Screen** can only be used in the Windows and Macintosh operating systems. • You can only use this function with USB-connected machine. • When printing the active window/whole monitor screen using the print screen button, the machine may use more toner depending on what is being printed. • You can only use this function if the machine's Samsung Easy Printer Manager program is installed. If you are a Macintosh OS user, you need to enable **Screen Print Settings** from the Samsung Easy Printer Manager to use the Print Screen feature.
3	**Scan to**		Sends scanned data (see "Basic Scanning" on page 61).

Control panel overview

4	**ID Copy**		Allows you to copy both sides of an ID card like a driver's license on a single side of paper (see "ID card copying" on page 59).
5	**Power/ Wakeup**		Turns the power on or off, or wakes up the machine from the power save mode. If you need to turn the machine off, press this button for more than three seconds.
6	**Display screen**		Shows the current status and displays prompts during an operation.
7	**Menu**		Opens Menu mode and scrolls through the available menus (see "Menu overview" on page 33).
8	**Left/ Right Arrows**	◀ ▶	Scrolls through the options available in the selected menu and increases or decreases values.
9	**OK**		Confirms the selection on the screen.
10	**Back**		Sends you back to the upper menu level.
11	**Start**		Starts a job.
12	**Stop/ Clear**		Stops an operations at any time.
13	**Status LED**		Indicates the status of your machine (see "Understanding the status LED" on page 92).

SCX-465xF/4521FS/4521HS/465xFN/465xHN/ 4521NS Series



1	**Eco**	Turn into eco mode to reduce toner consumption and paper usage when pc-printing and copying only (see "Eco printing" on page 55).

Control panel overview

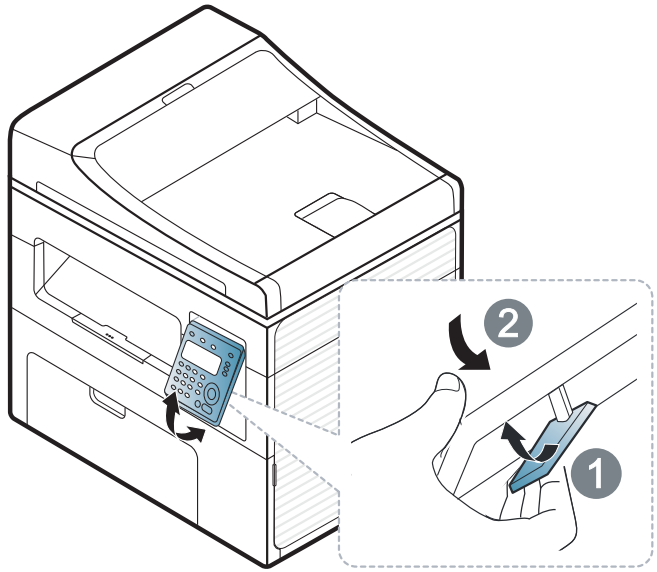
2	**Darkness**		Adjust the brightness level to make a copy for easier reading, when the original contains faint markings and dark images.
	Print Screen		Press this button and the display will **Print Screen?** on the display screen. If you want to print only the active screen, select the **Active**. If you want to print the whole screen, select **Full**. • **Print Screen** can only be used in the Windows and Macintosh operating systems. • You can only use this function with USB-connected machine. • When printing the active window/whole monitor screen using the print screen button, the machine may use more toner depending on what is being printed. • You can only use this function if the machine's Samsung Easy Printer Manager program is installed. If you are a Macintosh OS user, you need to enable **Screen Print Settings** from the Samsung Easy Printer Manager to use the Print Screen feature.
3	**ID Copy**		Allows you to copy both sides of an ID card like a driver's license on a single side of paper (see "ID card copying" on page 59).

4	**Power/ Wakeup**		Turns the power on or off, or wakes up the machine from the power save mode. If you need to turn the machine off, press this button for more than three seconds.
5	**Fax**		Switches to Fax mode.
6	**Copy**		Switches to Copy mode.
7	**Scan**		Switches to Scan mode.
8	**Menu**		Opens Menu mode and scrolls through the available menus (see "Menu overview" on page 33).
9	**Left/ Right Arrows**		Scrolls through the options available in the selected menu and increases or decreases values.
10	**OK**		Confirms the selection on the screen.
11	**Back**		Sends you back to the upper menu level.
12	**Start**		Starts a job.
13	**Stop/ Clear**		Stops an operations at any time.
14	**Status LED**		Indicates the status of your machine (see "Understanding the status LED" on page 92).

Control panel overview

15	**Numeric keypad**		Dials a number or enters alphanumeric characters (see "Keypad letters and numbers" on page 166).
16	**On Hook Dial**		When you press this button, you can hear a dial tone. Then enter a fax number. It is similar to making a call using speaker phone (see "Receiving manually in Tel mode" on page 195).
17	**Redial/ Pause**		Redials the recently sent fax number or received caller ID in ready mode, or inserts a pause(-) into a fax number in edit mode (see "Redialing the fax number" on page 189).
18	**Address Book**		Allows you to store frequently used fax numbers or search for stored fax numbers.
19	**Display screen**		Shows the current status and displays prompts during an operation.

Adjusting the control panel

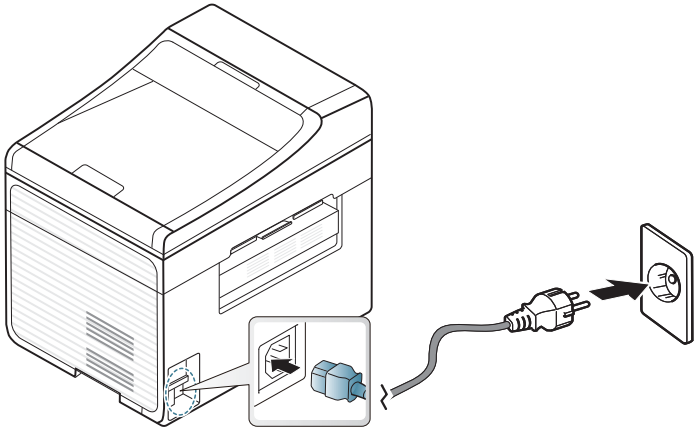


Illustrations on this user's guide may differ from your machine depending on its options or models. Check your machine type (see "Front view" on page 22).

Turning on the machine

1 Connect the machine to the electricity supply first.

Turn the switch on if the machine has a power switch.



Illustrations on this user's guide may differ from your machine depending on its options or models. Check your machine type (see "Front view" on page 22).

2 Power is turned on automatically.

SCX-465x/4021S/465xN/4321NS Series press (**Power/Wakeup**) button on the control panel.

If you want to turn the power off, press and hold (**Power/Wakeup**) button for about 3 seconds.

Installing the driver locally

A locally connected machine is a machine directly attached to your computer using the cable. If your machine is attached to a network, skip the following steps below and go on to installing a network connected machine's driver (see "Installing driver over the network" on page 137).

- If you are a Macintosh or Linux operating systems user, refer to the "Installation for Macintosh" on page 128 or "Installation for Linux" on page 130.
- The installation window in this User's Guide may differ depending on the machine and interface in use.
- Selecting **Custom Installation** allows you to choose which programs to install.
- Only use a USB cable no longer than 3 meters (118 inches).

Windows

1 Make sure that the machine is connected to your computer and powered on.

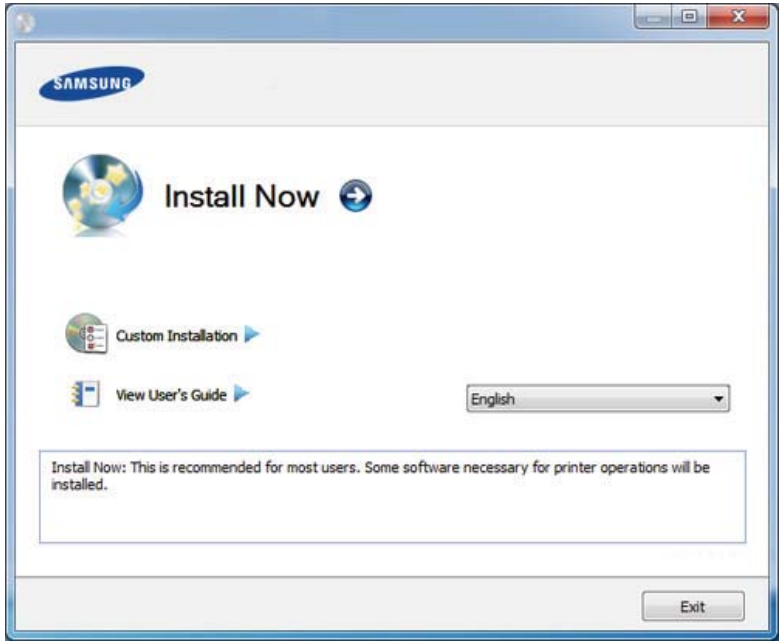
If the "**Found New Hardware Wizard**" appears during the installation procedure, click **Cancel** to close the window.

2 Insert the supplied software CD into your CD-ROM drive.

If the installation window does not appear, click **Start** > **All programs** > **Accessories** > **Run**.

X:**Setup.exe** replacing "X" with the letter, which represents your CD-ROM drive and click **OK**.

3 Select **Install Now**.



4 Read the **License Agreement**, and select **I accept the terms of the License Agreement**. Then, click **Next**.

5 Follow the instructions in the installation window.

Reinstalling the driver

If the printer driver does not work properly, follow the steps below to reinstall the driver.

Windows

1. Make sure that the machine is connected to your computer and powered on.
2. From the **Start** menu, select **Programs** or **All Programs** > **Samsung Printers** > **your printer driver name** > **Uninstall**.
3. Follow the instructions in the installation window.
4. Insert the software CD into your CD-ROM drive and install the driver again (see "Installing the driver locally" on page 30).

2. Menu Overview and Basic Setup

This chapter provides information about the overall menu structure and the basic setup options.

- **Menu overview** 33
- **Machine's basic settings** 36
- **Media and tray** 38
- **Basic printing** 51
- **Basic copying** 57
- **Basic scanning** 61
- **Basic faxing** 62

Menu overview

The control panel provides access to various menus to set up the machine or use the machine's functions.

- Some menus may not appear on the display depending on options or models. If so, it is not applicable to your machine.
- Some menu names may differ from your machine depending on its options or the models.
- The menus are described in the Advanced Guide (see "Useful Setting Menus" on page 150).

Accessing the menu

1. Select the Fax, Copy, or Scan button on the control panel depending on the feature to be used.
2. Select (**Menu**) until the menu you want appears on the bottom line of the display and press **OK**.
3. Press the arrows until the needed menu item appears and press **OK**.
4. If the setting item has sub menus, repeat step 3.
5. Press **OK** to save the selection.
6. Press (**Stop/Clear**) to return to the ready mode.

Menu overview

Fax Feature[a]		Fax Setup[a]		Copy Feature	
Darkness	Priority Send	Sending	Change Default	Original Size	Adjust Bkgd.
Normal	Send Fax	Redial Times	Resolution	Reduce/Enlarge	Off
Dark+1- Dark+5	Forward to Fax	Redial Term	Darkness	Darkness	Auto
Light+5- Light+1	Rcv. Forward	Prefix Dial	Original Size	Normal	Enhance Lev.1
Resolution	Forward to Fax	ECM Mode	Auto Report	Dark+1- Dark+5	Enhance Lev.2
Standard	Forward to PC	Fax Confirm	On	Light+5- Light+1	Erase Lev.1-Erase Lev.4
Fine	Forward&Print	Image TCR	Off	Original Type	
Super Fine	Secure Receive	Dial Mode[b]	Manual TX/RX	Text	
Photo Fax	Off	Receiving	On	Text/Photo	
Color Fax	On	Receive Mode	Off	Photo	
Original Size	Print	Ring To Answer		Layout	
Multi Send	Add Page	Stamp RCV Name		Normal	
Delay Send	Cancel Job	RCV Start Code		2-Up	
		Auto Reduction		4-Up	
		Discard Size		ID Copy	
		Junk Fax Setup			
		DRPD Mode[b]			

a. SCX-465xF/4521FS/4521HS/465xFN/465xHN/4521NS Series only.
b. This option may not be available depending on your country.

Menu overview

Copy setup	System Setup			Network[c](Continue)
Change Default	Machine Setup	Paper Setup	Scedule Jobs[a]	TCP/IP(IPv4)
Original Size	Machine ID[a]	Paper Size	Junk Fax[a]	DHCP
Copies	Fax Number[a]	Paper Type	Network Conf.[c]	BOOTP
Copy Collection	Date & Time[a]	Margin	Usage Counter	Static
Reduce/Enlarge	Clock Mode[a]	Sound/Volume	Fax Options[a]	TCP/IP(IPv6)
Darkness	Language	Key Sound	Maintenance	IPv6 Activate
Original Type	Power Save	Alarm Sound	CLR Empty Msg.[d]	DHCPv6 Config
Adjust Bkgd	Auto Power Off[b]	Speakers	Supplies Life	Ethernet Speed
	Wakeup Event	Ringer	Serial Number	Automatic
	System Timeout	Report	TonerLow Alert	10Mbps Half
	Job Timeout	Configuration		10Mbps Full
	Altitude Adj.	Supplies Info.		100Mbps Half
	Auto Continue	Address Book[a]		100Mbps Full
	Paper Substit.	Fax Confirm[a]		Clear Setting
	Toner Save	Fax Sent[a]		Network Conf.
	Eco Setting	Fax Received[a]		Protocol Mgr.

a. SCX-465xF/4521FS/4521HS/465xFN/465xHN/4521NS Series only.
b. SCX-465x/465xN/4021S/4321NS Series only.
c. SCX-465xN/4321NS/465xFN/465xHN/4521NS Series only.
d. This option only appears when small amount of toner is left in the cartridge.

Machine’s basic settings

After installation is complete, you may want to set the machine's default settings.

To change the machine’s default settings, follow these steps:

It may be necessary to press **OK** to navigate to lower-level menus for some models.

1 Select (**Menu**) button on the control panel.

2 Press **System Setup** > **Machine Setup**.

3 Select the option you want, then press **OK**.

- **Language:** change the language that is displayed on the control panel.
- **Date & Time:** When you set the time and date, they are used in delay fax and delay print. They are printed on reports. If, however, they are not correct, you need to change it for the correct time being.

  SCX-465xF/4521FS/4521HS/465xFN/465xHN/4521NS Series only.

Enter the correct time and date using arrows or numeric keypad (see "Keypad letters and numbers" on page 166).

- Month = 01 to 12
- Day = 01 to 31
- Year = requires four digits
- Hour = 01 to 12
- Minute = 00 to 59

- **Clock Mode:** You can set your machine to display the current time using either a 12-hour or 24-hour format.

  SCX-465xF/4521FS/4521HS/465xFN/465xHN/4521NS Series only.
- **Toner Save:** Toner save mode allows your machine to use less toner on each page. Activating this mode extends the life of the toner cartridge beyond what one would experience in the normal mode, but it reduces print quality.

When PC-printing, you can also turn on or off toner save mode in the printer properties.

- **Power Save:** When you are not using the machine for a while, use this feature to save power.

Machine's basic settings

- When you press the power/Wakeup button, start printing, or a fax is received, the product will wake up from the power saving mode.
- Press (**Menu**) > **System Setup** > **Machine Setup** > **Wakeup Event** > **Button Press** > **On** on the control panel. When you press any button except power button, the machine wake up from the power save mode.

- **Altitude Adjust:** Print quality is affected by atmospheric pressure, which atmospheric pressure is determined by the height of the machine above sea level. Before you set the altitude value, determine the altitude where you are (see "Altitude adjustment" on page 165).

4 Select the option you want, then press **OK**.

5 Press **OK** to save the selection.

6 Press (**Stop/Clear**) to return to ready mode.

Refer to below links to set other settings useful for using the machine.

- See "Entering various characters" on page 166.
- See "Keypad letters and numbers" on page 166.
- See "Setting the paper size and type" on page 46.

Media and tray

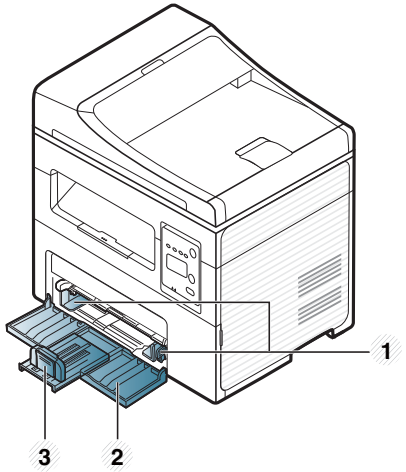
This chapter provides information on how to load print media into your machine.

- Using print media that does not meet these specifications may cause problems or require repairs. Such repairs are not covered by Samsung's warranty or service agreements.
- Make sure not to use the inkjet photo paper with this machine. It could cause damage to the machine.
- Using inflammable print media can cause a fire.
- Use designated print media (see "Print media specifications" on page 103).

The use of inflammable media or foreign materials left in the printer may lead to overheating of the unit and, in rare cases may cause a fire.

Tray overview

To change the size, you need to adjust the paper guides.



1 Paper width guide
2 Tray
3 Paper Length guide

Illustrations on this user's guide may differ from your machine depending on its options or models. Check your machine type (see "Front view" on page 22).

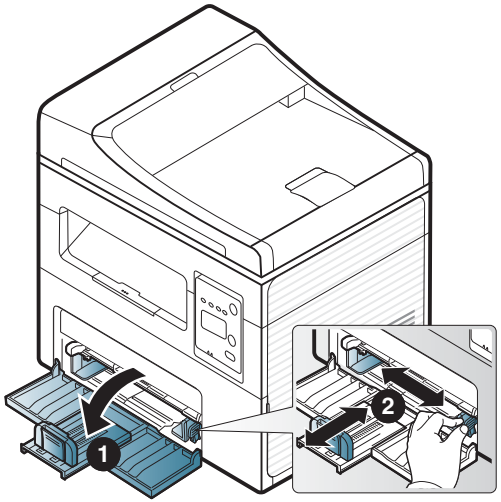
If you do not adjust the guide, it may cause paper registration, image skew, or jamming of the paper.

Media and tray

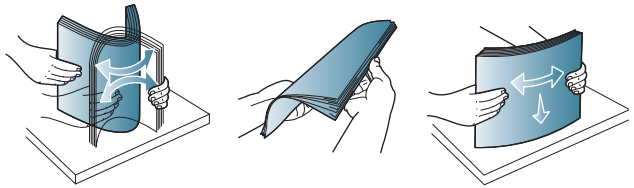
Loading paper in the tray

Illustrations on this user's guide may differ from your machine depending on its options or models. Check your machine type (see "Front view" on page 22).

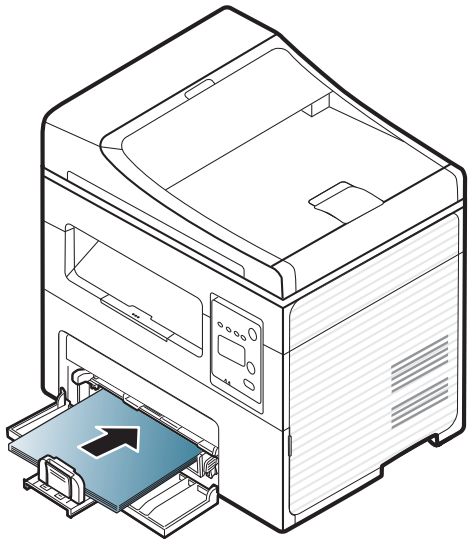
1 Open the tray. Then, adjust the tray size to the media size you are loading (see "Tray overview" on page 38).



2 Flex or fan the edge of the paper stack to separate the pages before loading papers.

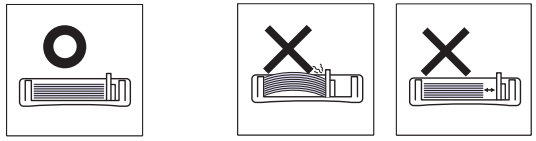


3 Place the paper with the side you want to print facing up.

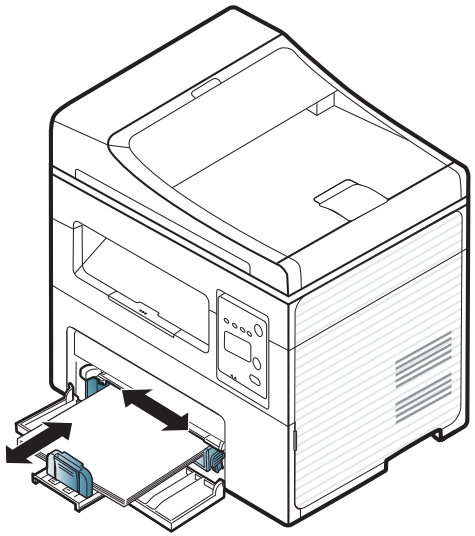


Media and tray

- Do not push the paper guide too far causing the media to warp.
- Do not use a paper with a leading-edge curl, it may cause a paper jam or the paper can be wrinkled.
- If you do not adjust the paper guide, it may cause paper jams.



4 Squeeze the paper guide and slide it to the edge of the paper stack without causing it to bend.



5 When you print a document, set the paper type and size for the tray (see "Setting the paper size and type" on page 46).

The settings made from the machine driver override the settings on the control panel.

a To print in application, open an application and start the print menu.

b Open **Printing Preferences** (see "Opening printing preferences" on page 53).

c Press the **Paper** tab in **Printing Preferences**, and select an appropriate paper type.

For example, if you want to use a label, set the paper type to **Label**.

d Select **Auto Select** (or **Manual Feeder** , Tray1) in paper source, then press **OK**.

e Start printing in application.

Media and tray

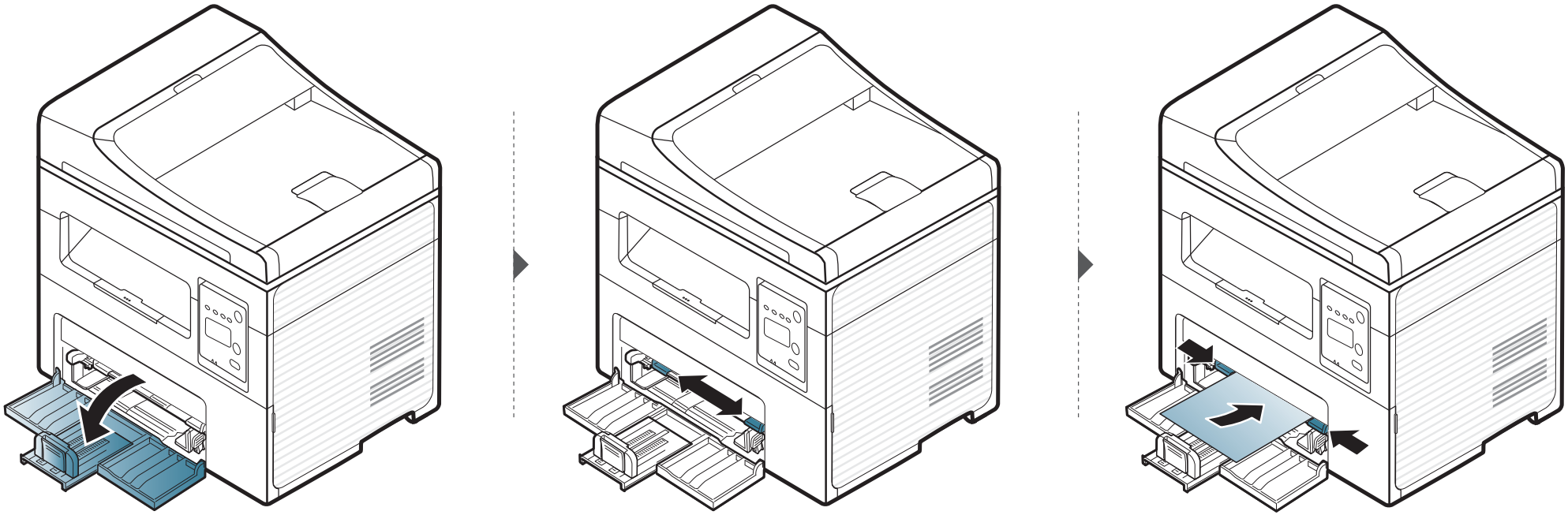
Loading in manual feeder

The manual feeder can hold special sizes and types of print material, such as postcards, note cards, and envelopes (see "Print media specifications" on page 103).

Tips on using the manual feeder

- Load only one type, size and weight of print media at time in the manual feeder.
- To prevent paper jams, do not add paper while printing when there is still paper in the manual feeder.
- Print media should be loaded face up with the top edge going into the manual feeder first and be placed in the center of the tray.
- To ensure printing quality and to prevent paper jams, only load the available paper (see "Print media specifications" on page 103).
- Flatten any curl on postcards, envelopes, and labels before loading them into the manual feeder.
- When printing on special media, you must follow the loading guidelines (see "Printing on special media" on page 43).
- When papers overlap when printing using the manual feeder, open tray and remove the papers then try printing again.

Media and tray



Media and tray

Printing on special media

The table below shows the special media usable in each tray.

The media is also shown in the **Printing Preferences**. To get the higest printing quality, select the proper media type from the **Printing preferences** window > **Paper** tab > **Paper Type** (see "Opening printing preferences" on page 53).

For example, if you want to print on labels, select **Labels** for **Paper Type**.

- When using special media, we recommend you feed one sheet at a time (see "Print media specifications" on page 103).

To see for paper weights for each sheet, refer to "Print media specifications" on page 103.

Types	Tray	Manual feeder
Plain	●	●
Thick		●
Thin	●	●
Bond		●
Color	●	●
CardStock		●
Labels		●
Envelope		●
Preprinted	●	●
Cotton		●
Recycled	●	●
Archive		●

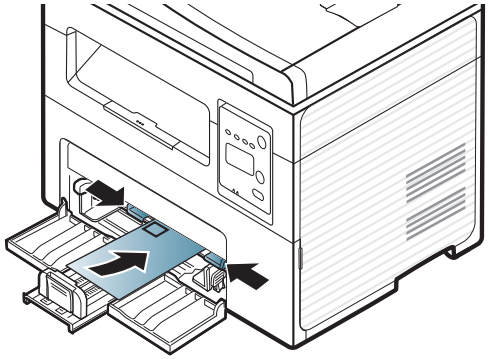
(●: Included, Blank: Not available)

Media and tray

Envelope

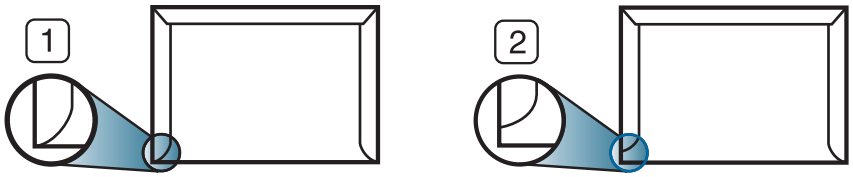
Printing successfully on envelopes depends upon the quality of the envelopes.

To print an envelope, place it as shown in the following figure.



If envelopes are printed out with wrinkles, creases, or black bold lines, open the rear cover and try printing again. Keep the rear cover opened during printing.

- When selecting envelopes, consider the following factors:
  - **Weight:** should not exceed 90 g/m^2 otherwise; jams may occur.
  - **Construction:** should lie flat with less than 6 mm curl and should not contain air.
  - **Condition:** should not be wrinkled, nicked, nor damaged.
  - **Temperature:** should resist the heat and pressure of the machine during operation.
- Use only well-constructed envelopes with sharp and well-creased folds.
- Do not use stamped envelopes.
- Do not use envelopes with clasps, snaps, windows, coated lining, self-adhesive seals, or other synthetic materials.
- Do not use damaged or poorly made envelopes.
- Be sure the seam at both ends of the envelope extends all the way to the corner of the envelope.



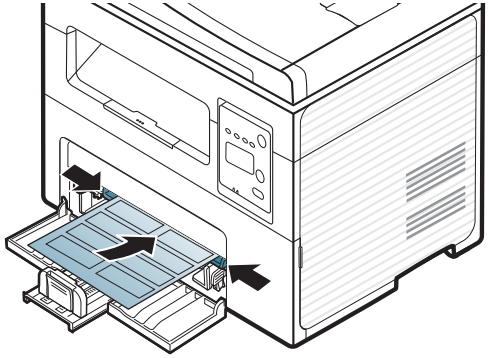
1 Acceptable
2 Unacceptable

- Envelopes with a peel-off adhesive strip or with more than one flap that folds over to seal must use adhesives compatible with the machine's fusing temperature for 0.1 second about 170°C (338 °F). The extra flaps and strips might cause wrinkling, creasing, or jams, and may even damage the fuser.
- For the best print quality, position margins no closer than 15 mm from the edges of the envelope.
- Avoid printing over the area where the envelope's seams meet.

Media and tray

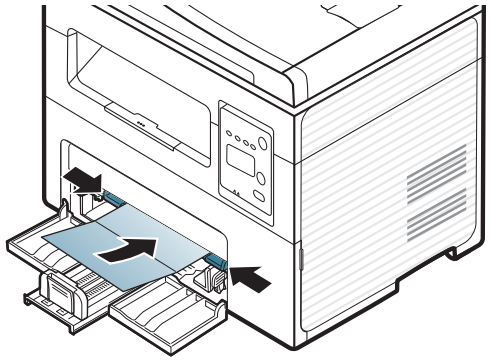
Labels

To avoid damaging the machine, use only labels designed for use in laser printers.



- When selecting labels, consider the following factors:
  - **Adhesives:** Should be stable at your machine's fusing temperature. Check your machine's specifications to view the fusing temperature (about 170°C (338°F)).
  - **Arrangement:** Only use labels with no exposed backing between them. Labels can peel off sheets that have spaces between the labels, causing serious jams.
  - **Curl:** Must lie flat with no more than 13 mm of curl in any direction.
  - **Condition:** Do not use labels with wrinkles, bubbles, or other indications of separation.
- Make sure that there is no exposed adhesive material between labels. Exposed areas can cause labels to peel off during printing, which can cause paper jams. Exposed adhesive can also cause damage to machine components.
- Do not run a sheet of labels through the machine more than once. The adhesive backing is designed for only a single pass through the machine.
- Do not use labels that are separating from the backing sheet or are wrinkled, bubbled, or otherwise damaged.

Card stock/ Custom-sized paper

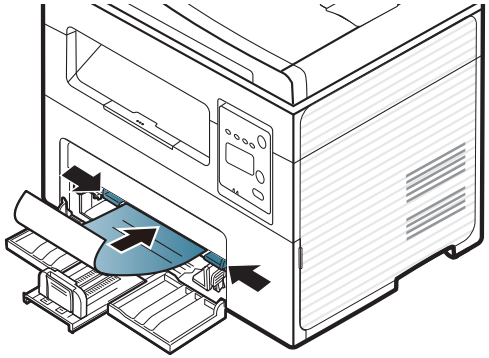


- In the software application, set the margins to at least 6.4 mm (0.25 inches) away from the edges of the material.

Media and tray

Preprinted paper

When loading preprinted paper, the printed side should be facing up with an uncurled edge at the front. If you experience problems with paper feeding, turn the paper around. Note that print quality is not guaranteed.



- Must be printed with heat-resistant ink that will not melt, vaporize, or release hazardous emissions when subjected to the machine's fusing temperature for 0.1 second (about 170°C (338°F)).
- Preprinted paper ink must be non-flammable and should not adversely affect machine rollers.
- Before you load preprinted paper, verify that the ink on the paper is dry. During the fusing process, wet ink can come off preprinted paper, reducing print quality.

Setting the paper size and type

After loading paper in the paper tray, set the paper size and type using the control panel buttons.

It may be necessary to press **OK** to navigate to lower-level menus for some models.

1. Select (**Menu**) button on the control panel.
2. Press **System Setup** > **Paper Setup** > **Paper Size** or **Paper Type**.
3. Select the tray and the option you want.
4. Press **OK** to save the selection.
5. Press (**Stop/Clear**) to return to ready mode.

Media and tray

- The settings set from the machine driver override the settings on the control panel.
  a. To print from an application, open an application and start the print menu.
  b. Open **Printing Preferences** (see "Opening printing preferences" on page 53).
  c. Press the **Paper** tab and select an appropriate paper.
- If you want to use special-sized paper such as billing paper, select the **Paper** tab > **Size** > **Edit...** and set **Custom Paper Size Settings** in the **Printing Preferences** (see "Opening printing preferences" on page 53).

Preparing originals

- Do not load paper smaller than 142 x 148 mm (5.6 x 5.8 inches) or larger than 216 x 356 mm (8.5 x 14 inches).
- Do not attempt to load the followings of paper, in order to prevent paper jam, low print quality and machine damage.
  - Carbon-paper or carbon-backed paper
  - Coated paper
  - Onion skin or thin paper
  - Wrinkled or creased paper
  - Curled or rolled paper
  - Torn paper
- Remove all staples and paper clips before loading.
- Make sure any glue, ink, or correction fluid on the paper is completely dry before loading.
- Do not load originals that include different sizes or weights of paper.
- Do not load booklets, pamphlets, transparencies, or documents with other unusual characteristics.

Media and tray

Loading originals

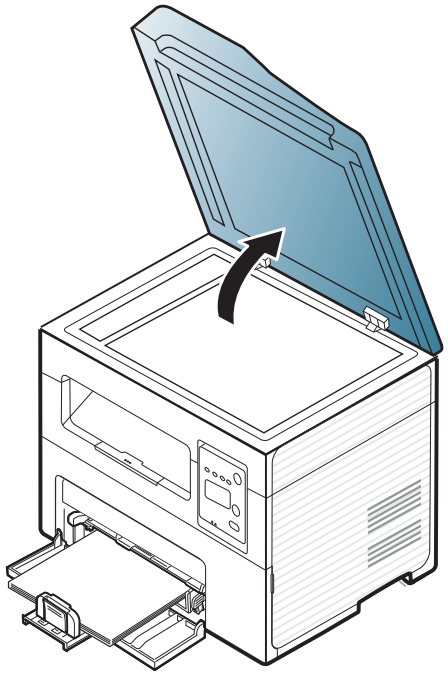
You can use the scanner glass or the document feeder to load an original for copying, scanning, and sending a fax.

Illustrations on this user's guide may differ from your machine depending on its options or models. Check your machine type (see "Front view" on page 22).

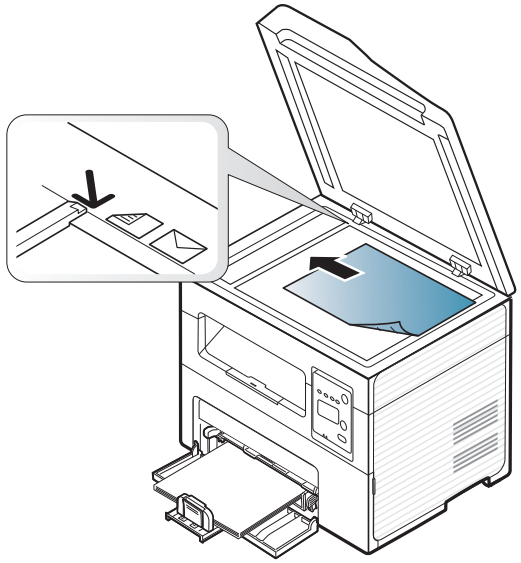
On the scanner glass

Using the scanner glass, you can copy or scan originals. You can get the best scan quality, especially for colored or gray-scaled images. Make sure that no originals are in the document feeder. If an original is detected in the document feeder, the machine gives it priority over the original on the scanner glass.

1 Lift and open the scanner lid.



2 Place the original face down on the scanner glass. Align it with the registration guide at the top left corner of the glass.



3 Close the scanner lid.

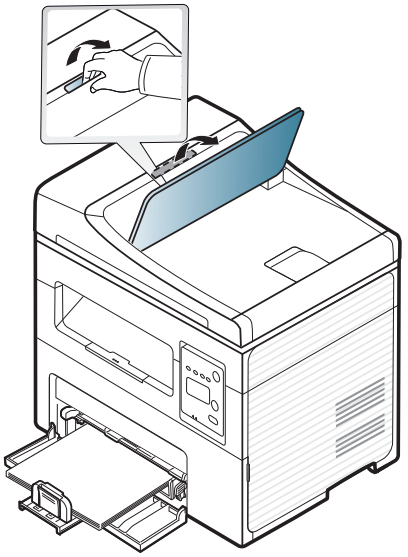
- Leaving the scanner lid open while copying may affect copy quality and toner consumption.
- Dust on the scanner glass may cause black spots on the printout. Always keep it clean (see "Cleaning the machine" on page 78).
- If you are copying a page from a book or magazine, lift the scanner lid until its hinges are caught by the stopper and then close the lid. If the book or magazine is thicker than 30 mm, start copying with the scanner lid open.

- Be careful not to break the scanner glass. You may get hurt.
- Do not put hands while closing the scanner lid. The scanner lid may fall on your hands and get hurt.
- Do not look the light from inside of the scanner while copying or scanning. It is harmful to eyes.

In the document feeder

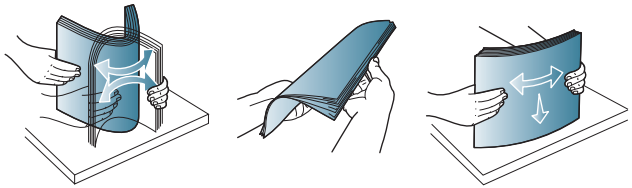
Using the document feeder, you can load up to 40 sheets of paper (80 g/m^2, 20 lbs bond) for one job.

1 Open the document feeder guide cover.

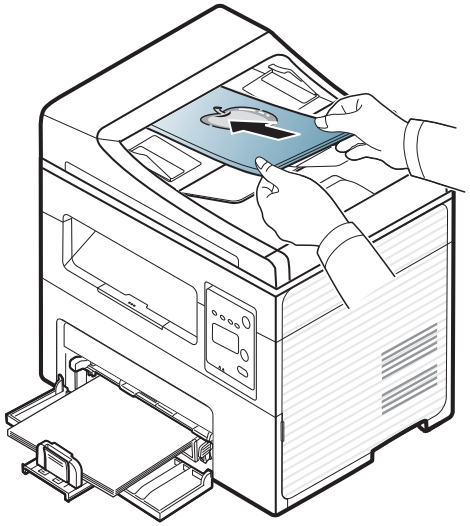


Media and tray

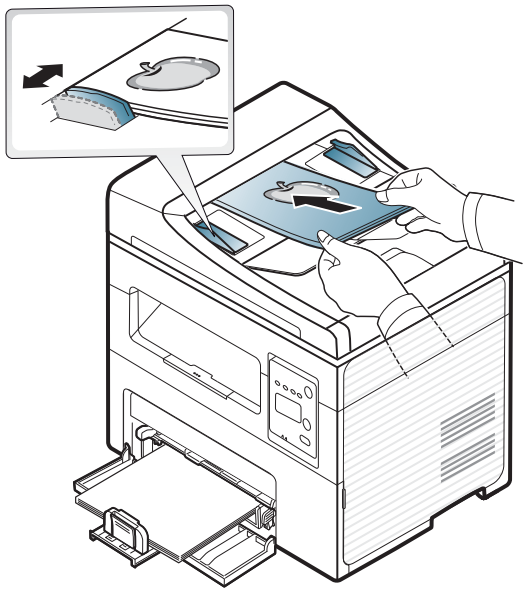
2 Flex or fan the edge of the paper stack to separate the pages before loading originals.



3 Load the original face up into the document feeder input tray. Make sure that the bottom of the original stack matches the paper size marked on the document input tray.



4 Adjust the document feeder width guides to the paper size.



Dust on the document feeder glass may cause black lines on the printout. Always keep the glass clean (see "Cleaning the machine" on page 78).

Basic printing

For special printing features, refer to the Advanced Guide (see "Using advanced print features" on page 169).

Printing

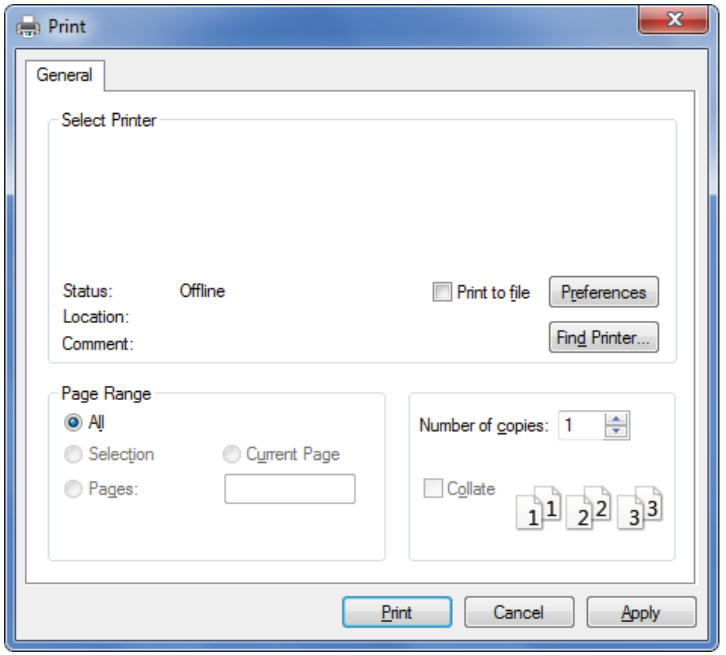
If you are a Macintosh or Linux operating systems user, refer to the Advanced Guide (see "Macintosh printing" on page 176 or "Linux printing" on page 177).

The following **Printing Preferences** window is for Notepad in Windows 7.

1 Open the document you want to print.

2 Select **Print** from the **File** menu.

3 Select your machine from the **Select Printer** list.



4 The basic print settings including the number of copies and print range are selected within the **Print** window.

To take advantage of the advanced printing features, click **Properties** or **Preferences** from the **Print** window (see "Opening printing preferences" on page 53).

5 To start the print job, click **OK** or **Print** in the **Print** window.

Basic printing

Canceling a print job

If the print job is waiting in the print queue or print spooler, cancel the job as follows:

- You can access this window by simply double-clicking the machine icon ( ) in the Windows task bar.
- You can also cancel the current job by pressing (**Stop/Clear**) on the control panel.

Basic printing

Opening printing preferences

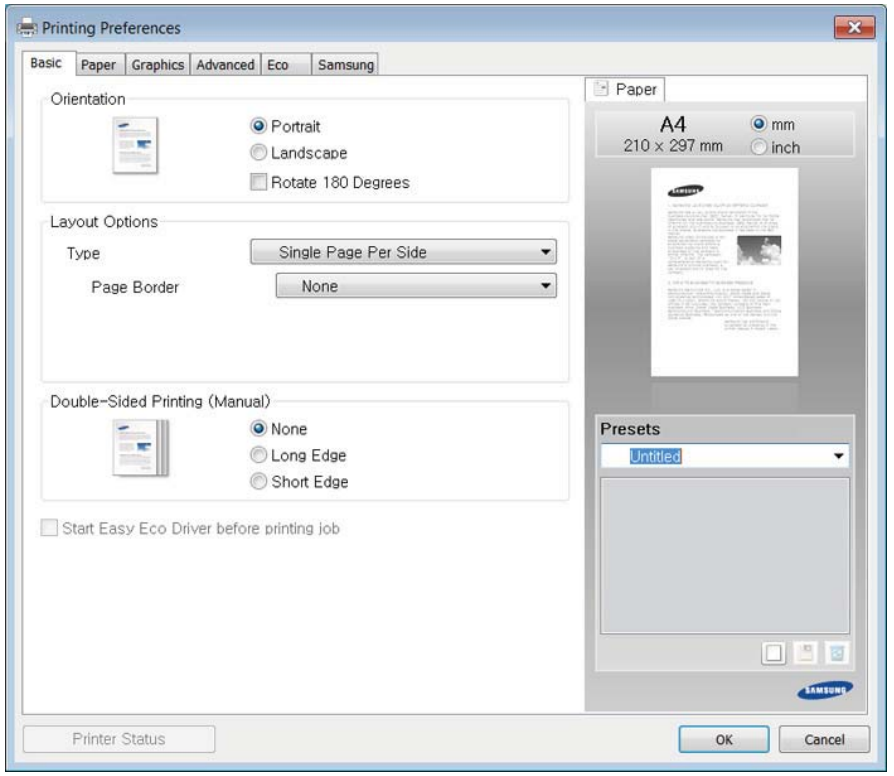
- The **Printing Preferences** window that appears in this user's guide may differ depending on the machine in use.
- When you select an option in **Printing Preferences**, you may see a warning mark or . An mark means you can select that certain option but it is not recommended, and an mark means you cannot select that option due to the machine's setting or environment.

1 Open the document you want to print.

2 Select **Print** from the file menu. The **Print** window appears.

3 Select your machine from the **Select Printer**.

4 Click **Properties** or **Preferences**.



You can check the machine's current status pressing the **Printer Status** button (see "Using Samsung Printer Status" on page 213).

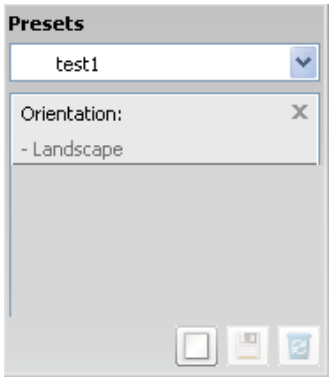
Basic printing

Using a favorite setting

The **Presets** option, which is visible on each preferences tab except for the **Samsung** tab, allows you to save the current preferences for future use.

To save a **Presets** item, follow these steps:

1. Change the settings as needed on each tab.
2. Enter a name for the item in the **Presets** input box.



3. Click (**Add**). When you save **Presets**, all current driver settings are saved.

Select more options and click (**Update**), settings will be added to the Presets you made. To use a saved setting, select it from the **Presets** drop-down list. The machine is now set to print according to the settings you have selected.

To delete saved settings, select it from the **Presets** drop-down list and click (**Delete**).

You can also restore the printer driver's default settings by selecting **Default Preset** from the **Presets** drop-down list.

Using help

Click the option you want to know on the **Printing Preferences** window and press **F1** on your keyboard.

Basic printing

Eco printing

The **Eco** function cuts toner consumption and paper usage. The **Eco** function allows you to save print resources and lead you to eco-friendly printing.

If you press the **Eco** button from the control panel, eco mode is enabled. The default setting of Eco mode is **Multiple Pages per Side** (2) and **Toner Save**.

Setting Eco mode on the control panel

You can set the machine's settings by using the **Device Settings** in Samsung Easy Printer Manager program.

- For Windows and Macintosh users, see "Device Settings" on page 212.
- For Linux users.

- The settings set from the machine's driver override the settings on the control panel.
- Accessing menus may differ from model to model (see "Accessing the menu" on page 33).
- It may be necessary to press **OK** to navigate to lower-level menus for some models.

1 Select (**Menu**) > **System Setup** > **Machine Setup** > **Eco Settings** on the control panel.

2 Select the option you want and press **OK**.

- **Default Mode:** Select this to turn on or off the eco mode. (Toner save/2-up)
  - **Off**: Set the eco mode off.
  - **On**: Set the eco mode on.

If you set the eco mode on with a password from the SyncThru™ Web Service (**Settings** tab > **Machine Settings** > **System** > **Eco** > **Settings**) or Samsung Easy Printer Manager (**Device Settings** > **Eco**), the **On force** message appears. You have to enter the password to change the eco mode status.

- **Select Temp.:** Follow the settings from Syncthru™ Web Service or Samsung Easy Printer Manager. Before you select this item, you must set the eco function in SyncThru™ Web Service (**Settings** tab > **Machine Settings** > **System** > **Eco** > **Settings**) or Samsung Easy Printer Manager (**Device Settings** > **Eco**).
  - **Default Eco**: The machine is set to **Default Eco** mode.
  - **Custom Eco**: Change any necessary values.

3 Press **OK** to save the selection.

Basic printing

Setting eco mode on the driver

Open the Eco tab to set Eco mode. When you see the eco image ( ), that means the eco mode is currently enabled.

Eco options

- **Printer Default:** Follows the settings from the machine's control panel.
- **None:** Disables Eco mode.
- **Eco Printing:** Enables eco mode. Activate the various Eco items you want to use.
- **Password:** If the administrator fixed to enable the Eco mode, you have to enter the password to change the status.

Result simulator

Result Simulator shows the results of reduced emission of carbon dioxide, used electricity, and the amount of saved paper in accordance with the settings you selected.

- The results are calculated on the basis that the total number of printed paper is one hundred without a blank page when the Eco mode is disabled.
- Refers to the calculation coefficient about CO2, energy, and paper from **IEA**, the index of Ministry of Internal Affairs and Communication of Japan and www.remanufacturing.org.uk. Each model has a different index.
- The power consumption in printing mode refers to the average printing power consumption of this machine.
- The actual amount displayed is only an estimate as the actual amount may differ depending on the operating system used, computing performance, application software, connection method, media type [thickness], media size, job complexity, etc.

Basic copying

For special printing features, refer to the Advanced Guide (see "Copy menu" on page 152).

Basic copy

1. If your has machine for (copy) buttons on the control panel, Select (copy).
2. Place a single document face down on the document glass, or load the documents face up into the document feeder (see "Loading originals" on page 48).
3. If you want to customize the copy settings including **Reduce/Enlarge**, **Darkness**, **Contrast**, **Original Type**, and more by using the control panel buttons (see "Changing the settings for each copy" on page 57).
4. Enter the number of copies using the arrow or number keypad, if necessary.
5. Press **(Start)**.

If you need to cancel the copying job during the operation, press (**Stop/Clear**) and the copying will stop.

Changing the settings for each copy

Your machine provides default settings for copying so that you can quickly and easily make a copy.

- If you press the (**Stop/Clear**) button twice while setting the copy options, all of the options you have set for the current copy job will be canceled and returned to their default status. Or, they will automatically return to their default status after the machine completes the copy in progress.
- It may be necessary to press **OK** to navigate to lower-level menus for some models.

Darkness

If you have an original containing faint marking and dark images, you can adjust the brightness to make a copy that is easier to read.

1. If your has machine for (copy) buttons on the control panel, Select (copy).
2. Select (**Menu**) > **Copy Feature** > **Darkness** on the control panel.

3 Select the option you want and press **OK**.

For example, the **Light+5** being the lightest, and the **Dark+5** being the darkest.

4 Press (**Stop/Clear**) to return to ready mode.

Original

The original setting is used to improve the copy quality by selecting the document for the current copy job.

1 If your has machine for (copy) buttons on the control panel, Select (copy).

2 Select (**Menu**) > **Copy Feature** > **Original Type** on the control panel.

3 Select the option you want and press **OK**.

- **Text**: Use for originals containing mostly text.
- **Text/Photo**: Use for originals with mixed text and photographs.

If texts in the printout is blurry, select **Text** to get the clear texts.

- **Photo**: Use when the originals are photographs.

4 Press (**Stop/Clear**) to return to ready mode.

Reduced or enlarged copy

You can reduce or enlarge the size of a copied image from 25% to 400% from the document feeder or scanner glass.

- This feature may not be available depending on model or optional goods (see "Variety feature" on page 10).
- If the machine set to Eco mode, reduce and enlarge features are not available.

To select from the predefined copy sizes

1 If your has machine for (copy) buttons on the control panel, Select (copy).

2 Select (**Menu**) > **Copy Feature** > **Reduce/Enlarge** on the control panel.

3 Select the option you want and press **OK**.

4 Press (**Stop/Clear**) to return to ready mode.

Basic copying

To scale the copy by directly entering the scale rate

1. If your has machine for (copy) buttons on the control panel, Select (copy).
2. Select (**Menu**) > **Copy Feature** > **Reduce/Enlarge** > **Custom** on the control panel.
3. Enter the copy size you want using the numeric keypad.
4. Press **OK** to save the selection.
5. Press (**Stop/Clear**) to return to ready mode.

When you make a reduced copy, black lines may appear at the bottom of your copy.

ID card copying

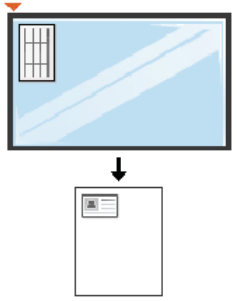
Your machine can print 2-sided originals on one sheet.

The machine prints one side of the original on the upper half of the paper and the other side on the lower half without reducing the size of the original. This feature is helpful for copying a small-sized item such as business card.

- The original must be placed on the scanner glass to use this feature.
- If the machine set to Eco mode, this feature is not available.

Depending on the model, the operating procedure may differ.

1. Press **ID Copy** on the control panel.
2. Place the front side of an original facing down on the scanner glass where arrows indicate as shown. Then, close the scanner lid.

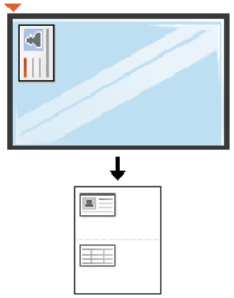


3. **Place Front Side and Press [Start]** appears on the display.
4. Press (**Start**).

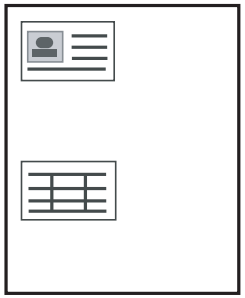
   Your machine begins scanning the front side and shows **Place Back Side and Press [Start]**.

Basic copying

5 Turn the original over and place it on the scanner glass where arrows indicate as shown. Then, close the scanner lid.



6 Press (**Start**) button.



- If you do not press the (**Start**) button, only the front side will be copied.
- If the original is larger than the printable area, some portions may not be printed.

Basic scanning

For special scanning features, refer to the Advanced Guide (see "Scan features" on page 182).

Basic Scanning

This is the normal and usual procedure for scanning originals.

This is a basic scanning method for USB-connected machine.

- It may be necessary to press **OK** to navigate to lower-level menus for some models.
- If you want to scan using the network, refer to the Advanced Guide (see "Scanning from network connected machine" on page 183).

1 Place a single document face down on the document glass, or load the documents face up into the document feeder (see "Loading originals" on page 48).

2 If your has machine for (scan) buttons on the control panel, Select (scan) > **Scan to PC** on the control panel.

OR

Press **Scan to** on the control panel.

If you see **Not Available** message, check the port connection, or select **Enable Scan from Device Panel** in Samsung Easy Printer Manager > Switch to advanced mode > **Scan to** PC **Settings**.

3 Select the scan destination you want and press **OK**.

Default setting is **My Documents**.

- You can create and save the frequently used settings as a profile list. Also you can add and delete the profile and save each profile to a different path.
- To change the Samsung Easy Printer Manager > Switch to advanced mode > **Scan to** PC **Settings**.

4 Select the option you want and press **OK**.

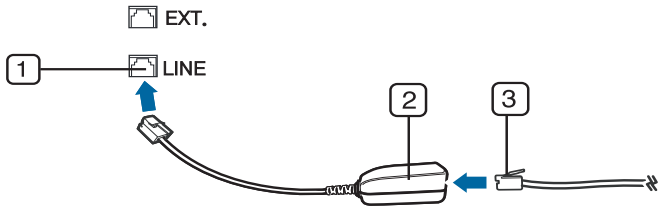
5 Scanning begins.

Scanned image is saved in computer's **C:\Users\users name\My Documents**. The saved folder may differ, depending on your operating system or the application you are using.

Basic faxing

- This function is not supported for SCX-465x/4021S/465xN/4321NS Series (see "Control panel overview" on page 25).
- For special faxing features, refer to the Advanced Guide (see "Fax features" on page 189).

- You cannot use this machine as a fax via the internet phone. For more information ask your internet service provider.
- We recommend using traditional analog phone services (PSTN: Public Switched Telephone Network) when connecting telephone lines to use a fax machine. If you use other Internet services (DSL, ISDN, VoIP), you can improve the connection quality by using the Micro-filter. The Micro-filter eliminates unnecessary noise signals and improves connection quality or Internet quality. Since the DSL Micro-filter is not provided with the machine, contact your Internet service provider for use on DSL Micro-filter.



1 Line port
2 Micro filter
3 DSL modem / Telephone line (see "Rear view" on page 24).

Preparing to fax

Before you send or receive a fax, you need to connect the supplied line cord to your telephone wall jack (see "Rear view" on page 24). Refer to the Quick Installation Guide how to make a connection. The method of making a telephone connection is different from one country to another.

Sending a fax

When you place the originals, you can use either the document feeder or the scanner glass. If the originals are placed on both the document feeder and the scanner glass, the machine will read the originals on the document feeder first, which has higher priority in scanning.

1. Place a single document face down on the document glass, or load the documents face up into the document feeder (see "Loading originals" on page 48).
2. Select (fax) on the control panel.
3. Adjust the resolution and the darkness to suit your fax needs (see "Adjusting the document settings" on page 64).

4 Enter the destination fax number (see "Keypad letters and numbers" on page 166).

5 Press **(Start)** on the control panel. The machine starts to scan and send the fax to the destinations.

- If you want to send a fax directly from your computer, use Samsung Network PC Fax (see "Sending a fax in the computer" on page 190).
- When you want to cancel a fax job, press (**Stop/Clear**) before the machine starts transmission.
- If you used the scanner glass, the machine shows the message asking to place another page.

Sending a fax manually

Perform the following to send a fax using (**On Hook Dial**) on the control panel.

If your machine is a handset model, you can send a fax using the handset (see "Variety feature" on page 10).

1 Place a single document face down on the document glass, or load the documents face up into the document feeder (see "Loading originals" on page 48).

2 Select (fax) on the control panel.

3 Adjust the resolution and the darkness to suit your fax needs (see "Adjusting the document settings" on page 64).

4 Press (**On Hook Dial**) on the control panel or lift the handset.

5 Enter a fax number using the number keypad on the control panel.

6 Press **(Start)** on the control panel when you hear a high-pitched fax signal from the remote fax machine.

Sending a fax to multiple destinations

You can use the multiple send feature, which allows you to send a fax to multiple locations. Originals are automatically stored in memory and sent to a remote station. After transmission, the originals are automatically erased from memory.

You cannot send faxes with this feature if you chosen super fine as an option or if the fax is in color.

Basic faxing

1 Place a single document face down on the document glass, or load the documents face up into the document feeder (see "Loading originals" on page 48).

2 Select (fax) on the control panel.

3 Adjust the resolution and the darkness to suit your fax needs (see "Adjusting the document settings" on page 64).

4 Select (**Menu**) > **Fax Feature** > **Multi Send** on the control panel.

5 Enter the number of the first receiving fax machine and press **OK**.

You can press speed dial numbers or select a group dial number using the (**Address book**) button.

6 Enter the second fax number and press **OK**.

The display asks you to enter another fax number to send the document.

7 To enter more fax numbers, press **OK** when **Yes** appears and repeat steps 5 and 6.

- You can add up to 10 destinations.
- Once you have entered a group dial number, you cannot enter another group dial number.

8 When you have finished entering fax numbers, select **No** at the **Another No.?** prompt and press **OK**.

The machine begins sending the fax to the numbers you entered in the order in which you entered them.

Multi send report is printed after sending faxes.

Receiving a fax

Your machine is preset Fax mode at the factory. When you receive a fax, the machine answers the call on a specified number of rings and automatically receives the fax.

Adjusting the document settings

Before starting a fax, change the following settings according to your original's status to get the best quality.

It may be necessary to press **OK** to navigate to lower-level menus for some models.

Basic faxing

Resolution

The default document settings produce good results when using typical text-based originals. However, if you send originals that are of poor quality, or contain photographs, you can adjust the resolution to produce a higher quality fax.

1 Select (fax) > (**Menu**) > **Fax Feature** > **Resolution** on the control panel.

2 Select the option you want and press **OK**.

- **Standard**: Originals with normal sized characters.
- **Fine**: Originals containing small characters or thin lines or originals printed using a dot-matrix printer.
- **Super Fine**: Originals containing extremely fine detail. **Super Fine** mode is enabled only if the machine with which you are communicating also supports the Super Fine resolution.

- For memory transmission, **Super Fine** mode is not available. The resolution setting is automatically changed to **Fine**.
- When your machine is set to **Super Fine** resolution and the fax machine with which you are communicating does not support **Super Fine** resolution, the machine transmits using the highest resolution mode supported by the other fax machine.

- **Photo Fax**: Originals containing shades of gray or photographs.
- **Color Fax**: Original with colors.

- Memory transmission is not available in this mode.
- You can only send a color fax if the machine you are communicating with supports color fax reception and you send the fax manually.

3 Press (**Stop/Clear**) to return to ready mode.

Darkness

You can select the degree of darkness of the original document.

The darkness setting is applied to the current fax job. To change the default setting (see "Fax menu" on page 155).

1 Select (fax) > (**Menu**) > **Fax Feature** > **Darkness** on the control panel.

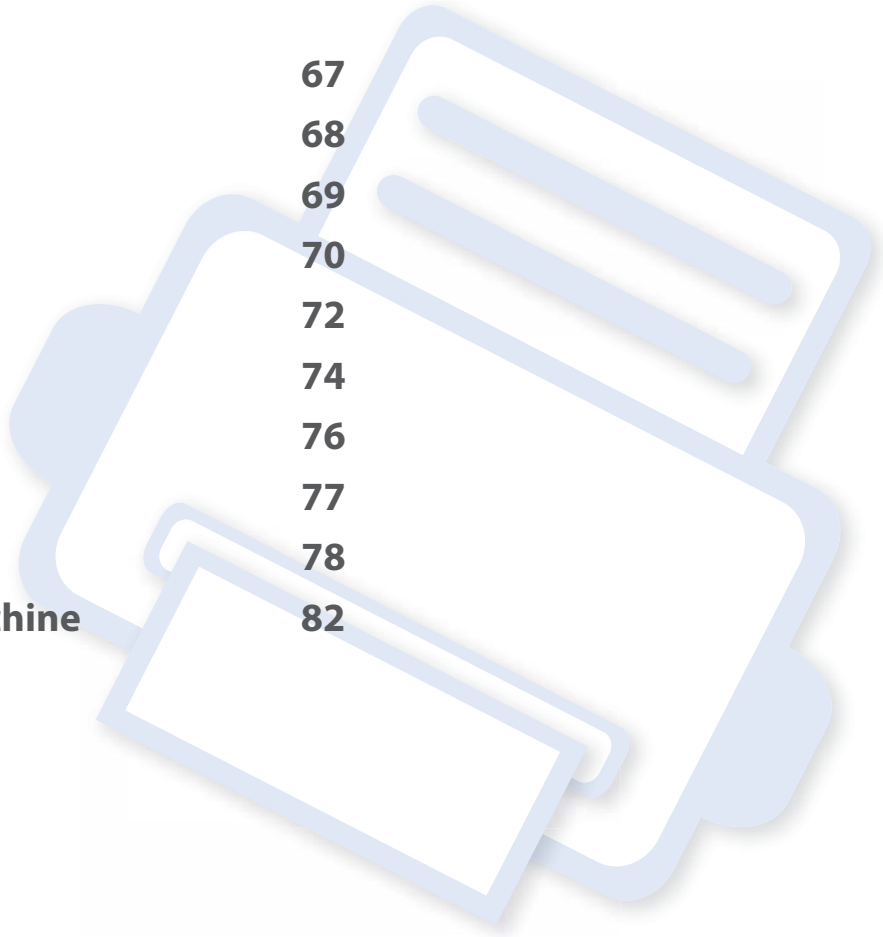
2 Select a darkness level you want.

3 Press (**Stop/Clear**) to return to ready mode.

3. Maintenance

This chapter provides information about purchasing supplies, accessories and maintenance parts available for your machine.

- Ordering supplies and accessories 67
- Available supplies 68
- Available maintenance parts 69
- Storing the toner cartridge 70
- Redistributing toner 72
- Replacing the toner cartridge 74
- Monitoring the supplies life 76
- Setting the toner low alert 77
- Cleaning the machine 78
- Tips for moving & storing your machine 82



Ordering supplies and accessories

Available accessories may differ from country to country. Contact your sales representatives to obtain the list of available supplies, and maintenance parts.

To order Samsung-authorized supplies, accessories, and maintenance parts, contact your local Samsung dealer or the retailer where you purchased your machine. You can also visit **www.samsung.com/supplies**, and then select your country/region to obtain the contact information for service.

Available supplies

When supplies reach the end of their life spans, you can order the followings of supplies for your machine:

Type	Average yield[a]	Part name	Region A[b]
Toner cartridge	Approx. 2,500 pages	MLT-D117S	SCX-D4725A

a. Declared yield value in accordance with ISO/IEC 19752. The number of pages may be affected by operating environment, printing interval, graphics, media type and media size.
b. Region A: China, India, Nepal, Bangladesh

Depending on the options, percentage of image area and job mode used, the toner cartridge's lifespan may differ.

When purchasing new toner cartridges or other supplies, these must be purchased in the same country as the machine you are using. Otherwise, new toner cartridges or other supplies will be incompatible with your machine due to different configurations of toner cartridges and other supplies according to the specific country conditions.

Samsung does not recommend using non-genuine Samsung toner cartridge such as refilled or remanufactured toner. Samsung cannot guarantee non-genuine Samsung toner cartridge's quality. Service or repair required as a result of using non-genuine Samsung toner cartridges will not be covered under the machine's warranty.

Available maintenance parts

To purchase maintenance parts, contact the source where you bought the machine. Replacing maintenance parts can be performed only by an authorized service provider, dealer, or the retailer where you bought the machine. The warranty does not cover the replacement of any maintenance parts once it has reached its "Average yield".

Maintenance parts are replaced at specific intervals to avoid print quality and paper feed problems resulting from worn parts, see table below. The purpose of which is to maintain your machine in top working condition. The maintenance parts below should be replaced when the life span of each item has been met.

Parts	Average yield[a]
Transfer Roller	Approx. 50,000 pages
Fuser Unit	Approx. 50,000 pages
Pick-Up Roller	Approx. 50,000 pages
Feed Roller	Approx. 50,000 pages
ADF Feed Roller[b]	Approx. 20,000 pages
ADF Rubber Pad[b]	Approx. 20,000 pages

a. It will be affected by the operating system used, computing performance, application software, connecting method, media, media size and job complexity.
b. This feature may not be available depending on model or optional goods (see "Variety feature" on page 10).

Storing the toner cartridge

Toner cartridges contain components that are sensitive to light, temperature and humidity. Samsung suggests users follow these recommendations to ensure optimal performance, highest quality, and longest life from your new Samsung toner cartridge.

Store this cartridge in the same environment in which the printer will be used. This should be in controlled temperature and humidity conditions. The toner cartridge should remain in its original and unopened package until installation – if original packaging is not available, cover the top opening of the cartridge with paper and store in a dark cabinet.

Opening the cartridge package prior to use dramatically shortens its useful shelf and operating life. Do not store on the floor. If the toner cartridge is removed from the printer, follow the instructions below to store the toner cartridge properly.

- Store the cartridge inside the protective bag from the original package.
- Store lying flat (not standing on end) with the same side facing up as if it were installed in the machine.
- Do not store consumables in any of the following conditions:
  - Temperature greater than 40°C (104°F).
  - Humidity range less than 20% or greater than 80%.
  - An environment with extreme changes in humidity or temperature.
  - Direct sunlight or room light.
  - Dusty places.
  - A car for a long period of time.
  - An environment where corrosive gases are present.
  - An environment with salty air.

Handling instructions

- Do not touch the surface of the photoconductive drum in the cartridge.
- Do not expose the cartridge to unnecessary vibrations or shock.
- Never manually rotate the drum, especially in the reverse direction; this can cause internal damage and toner spillage.

Toner cartridge usage

Samsung Electronics does not recommend or approve the use of non-Samsung brand toner cartridges in your printer including generic, store brand, refilled, or remanufactured toner cartridges.

Samsung's printer warranty does not cover damage to the machine caused by the use of a refilled, remanufactured, or non-Samsung brand toner cartridges.

Storing the toner cartridge

Estimated cartridge life

Estimated cartridge life (the life of the toner cartridge yield) depends on the amount of toner that print jobs require. The actual print yield may vary depending on the print density of the pages you print on, operating environment, percentage of image area, printing interval, media type and/or media size. For example, if you print a lot of graphics, the consumption of the toner is higher and you may need to change the cartridge more often.

Redistributing toner

When the toner cartridge is near the end of its life:

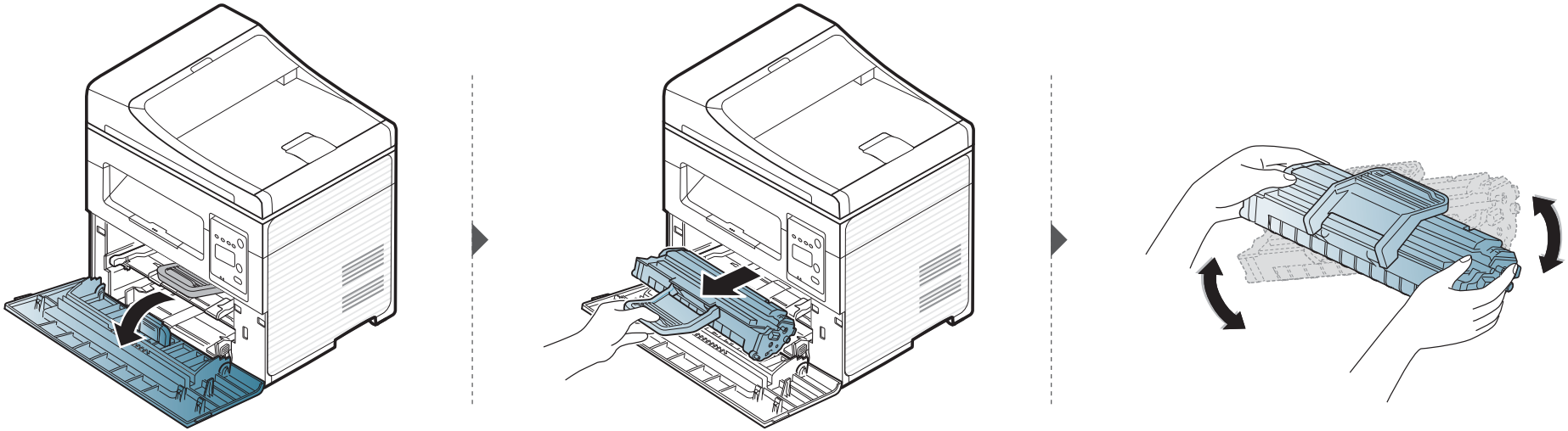
- White streaks or light printing occurs and/or density variation side to side.

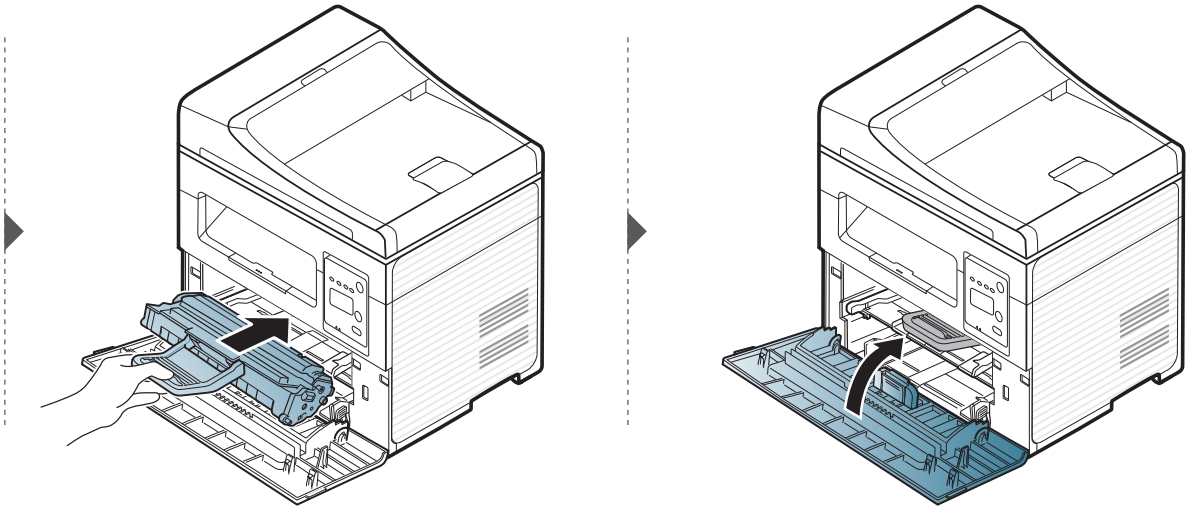
If this happens, you can temporarily improve print quality by redistributing the remaining toner in the cartridge. In some cases, white streaks or light printing will still occur even after you have redistributed the toner.

Illustrations on this user's guide may differ from your machine depending on its options or models. Check your machine type (see "Front view" on page 22).

- To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes. Cover it with a piece of paper, if necessary.
- Do not touch the green area of the toner cartridge. Use the handle on the cartridge to avoid touching this area.
- Do not use sharp objects such as a knife or scissors to open the toner cartridge package. They might scratch the drum of the cartridge.
- If toner gets on your clothing, wipe it off with a dry cloth and wash clothing in cold water. Hot water sets toner into fabric.

Redistributing toner





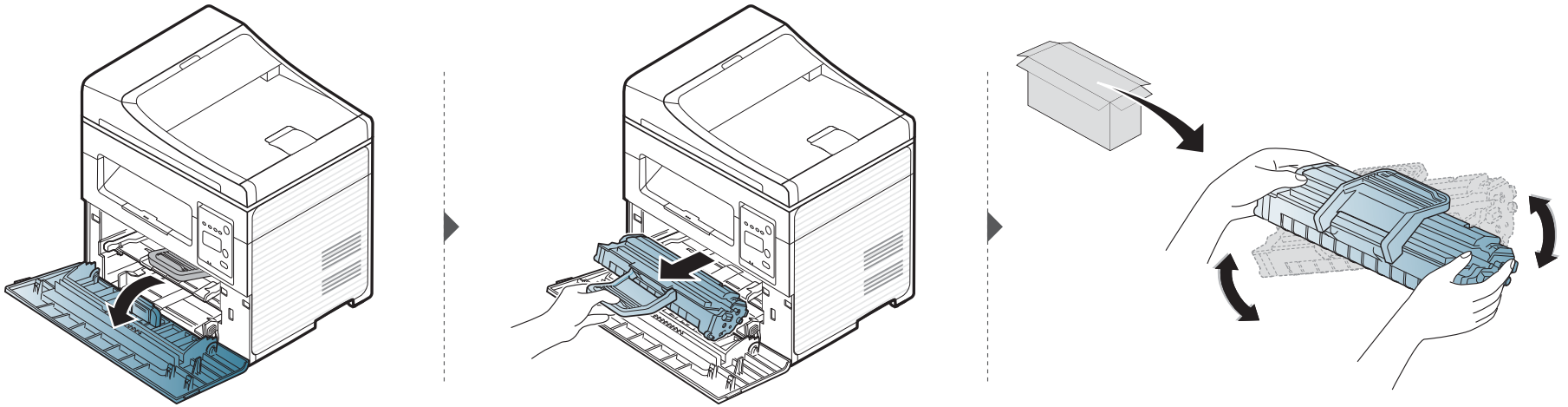
Replacing the toner cartridge

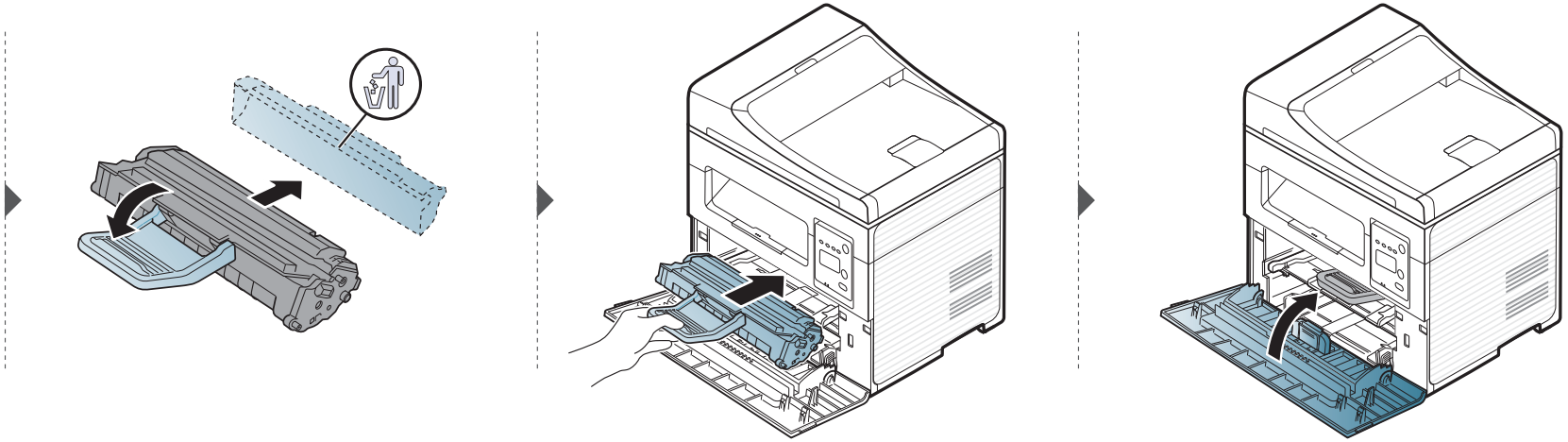
- Shake the toner cartridge thoroughly, it will increase the initial print quality.
- Illustrations on this user's guide may differ from your machine depending on its options or models. Check your machine type (see "Front view" on page 22).

- To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes. Cover it with a piece of paper, if necessary.
- Do not touch the green area of the toner cartridge. Use the handle on the cartridge to avoid touching this area.
- Do not use sharp objects such as a knife or scissors to open the toner cartridge package. They might scratch the drum of the cartridge.
- If toner gets on your clothing, wipe it off with a dry cloth and wash clothing in cold water. Hot water sets toner into fabric.

Replacing the toner cartridge

When a toner cartridge has reached the end of life, the machine will stop printing.





Monitoring the supplies life

If you experience frequent paper jams or printing problems, check the number of pages the machine has printed or scanned. Replace the corresponding parts, if necessary.

- It may be necessary to press **OK** to navigate to lower-level menus for some models.

1 Select (**Menu**) > **System Setup** > **Maintenance** > **Supplies Life** on the control panel.

2 Select the option you want and press **OK**.

- **Total**: Displays the total number of pages printed.
- **ADF Scan**: Displays the number of pages printed by using the document feeder. Document feeder models only.
- **Platen Scan**: Displays the number of pages scanned by using scanner glass.
- **Supplies Info.**: Prints the supply information page.

3 Press (**Stop/Clear**) to return to ready mode.

Setting the toner low alert

If the amount of toner in the cartridge is low, a message or LED informing the user to change the toner cartridge appears. You can set the option for whether or not this message or LED appears.

- It may be necessary to press **OK** to navigate to lower-level menus for some models.

1. Select (**Menu**) > **System Setup** > **Maintenance** > **TonerLow Alert** on the control panel.
2. Select the option you want.
3. Press **OK** to save the selection.

Cleaning the machine

If printing quality problems occur or if you use your machine in a dusty environment, you need to clean your machine regularly to keep it in the best printing condition and use your machine longer.

- Cleaning the cabinet of the machine with cleaning materials containing large amounts of alcohol, solvents, or other strong substances can discolor or distort the cabinet.
- If your machine or the surrounding area is contaminated with toner, we recommend you use a cloth or tissue dampened with water to clean it. If you use a vacuum cleaner, toner blows in the air and might be harmful to you.

Cleaning the outside

Clean the machine cabinet with a soft, lint-free cloth. Dampen the cloth slightly with water, but be careful not to let any water drip onto or into the machine.

Cleaning the machine

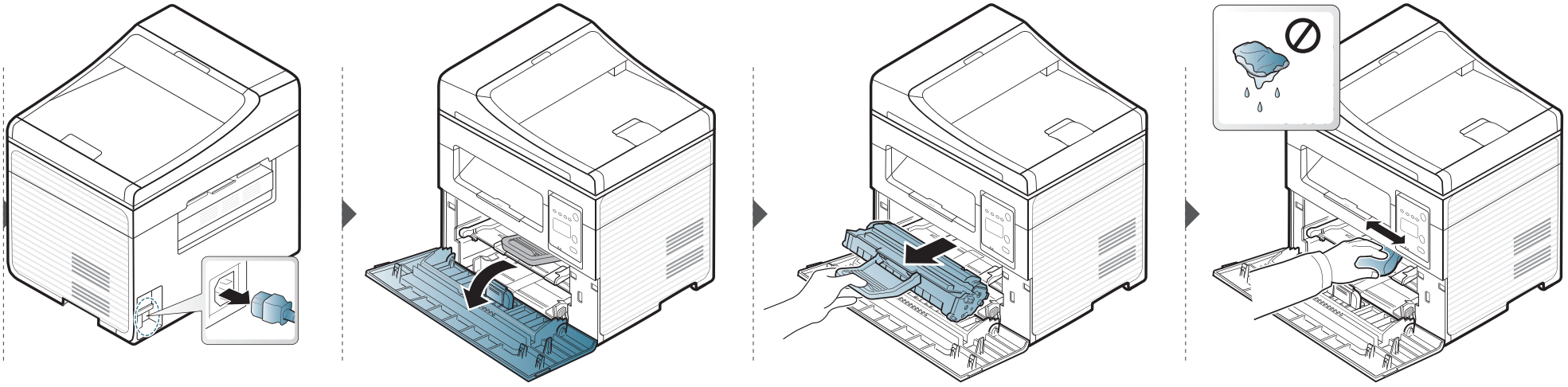
Cleaning the inside

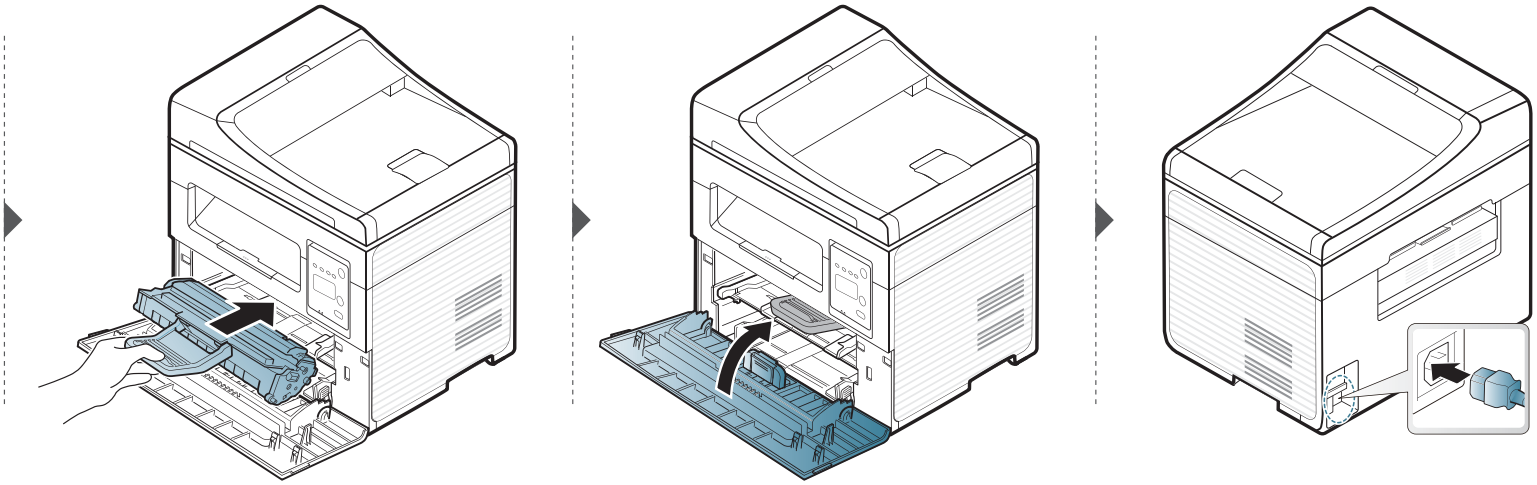
During the printing process, paper, toner, and dust particles can accumulate inside the machine. This buildup can cause print quality problems, such as toner specks or smearing. Cleaning the inside of the machine clears and reduces these problems.

- To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes. Cover it with a piece of paper, if necessary.
- Do not touch the green area of the toner cartridge. Use the handle on the cartridge to avoid touching this area.
- Use a dry lint free cloth when cleaning the inside of the machine, be careful not to damage the transfer roller or any other inside parts. Do not use solvents such as benzene or thinner. Printing quality problems can occur and cause damage to the machine.

- Use a dry lint-free cloth to clean the machine.
- Turn the machine off and unplug the power cord. Wait for the machine to cool down. If your machine has a power switch, turn the power switch off before cleaning the machine.
- Illustrations on this user's guide may differ from your machine depending on its options or models. Check your machine type (see "Front view" on page 22).
- When opening a scan unit, hold the document feeder and scan unit together.

Cleaning the machine





Cleaning the machine

Cleaning the scan unit

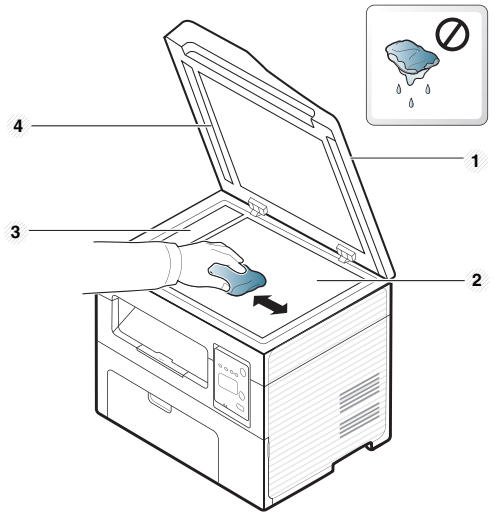
Keeping the scan unit clean helps ensure the best possible copies. We suggest that you clean the scan unit at the start of each day and during the day as needed.

- Turn the machine off and unplug the power cord. Wait for the machine to cool down. If your machine has a power switch, turn the power switch off before cleaning the machine.
- Illustrations on this user's guide may differ from your machine depending on its options or models. Check your machine type (see "Front view" on page 22).

1 Slightly dampen a soft, lint-free cloth or paper towel with water.

2 Lift and open the scanner lid.

3 Wipe the surface of the scanner until it is clean and dry.



1 Scanner lid
2 Scanner glass
3 Document feeder glass
4 White bar

4 Close the scanner lid.

Tips for moving & storing your machine

- When moving the machine, do not tilt or turn it upside down. Otherwise, the inside of the machine may be contaminated by toner, which can cause damage to the machine or reduce print quality.
- When moving the machine, make sure at least two people are holding the machine securely.

4. Troubleshooting

This chapter gives helpful information for what to do if you encounter an error.

- Tips for avoiding paper jams 84
- Clearing original document jams 85
- Clearing paper jams 90
- Understanding the status LED 92
- Understanding display messages 94

This chapter gives helpful information for what to do if you encounter an error. If your machine has a display screen, check the message on the display screen first to solve the error.

If you cannot find a solution to your problem in this chapter, refer to the **Troubleshooting** chapter in the Advanced Guide (see "Troubleshooting" on page 219).

If you cannot find a solution in the User's Guide or the problem persists, call for service.

Tips for avoiding paper jams

By selecting the correct media s, most paper jams can be avoided. To avoid paper jams, refer to the following guidelines:

- Ensure that the adjustable guides are positioned correctly (see "Tray overview" on page 38).
- Do not remove paper from the tray while your machine is printing.
- Flex, fan, and straighten paper before loading.
- Do not use creased, damp, or highly curled paper.
- Do not mix papers in a tray.
- Use only recommended print media (see "Print media specifications" on page 103).

Clearing original document jams

When an original document jams in the document feeder, a warning message appears on the display.

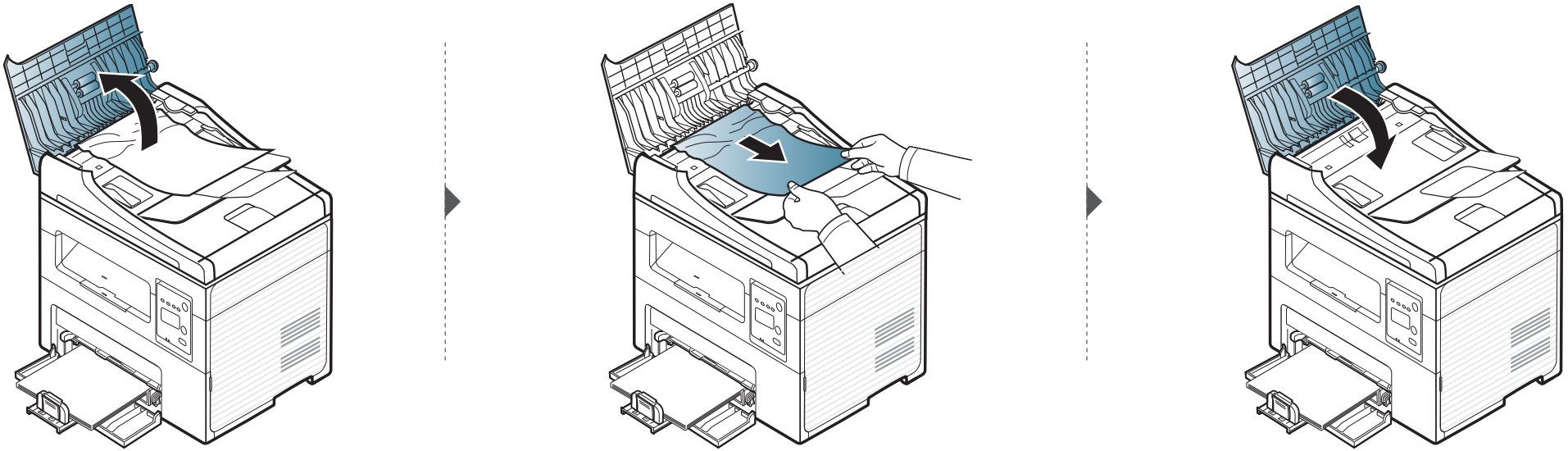
To avoid tearing the document, remove the jammed document slowly and carefully.

To prevent document jams, use the scanner glass for thick, thin or mixed paper- originals.

Clearing original document jams

Original paper jam in front of scanner

- Illustrations on this user's guide may differ from your machine depending on its options or models. Check your machine type (see "Front view" on page 22).
- This troubleshooting may not be available depending on model or optional goods (see "Variety feature" on page 10).

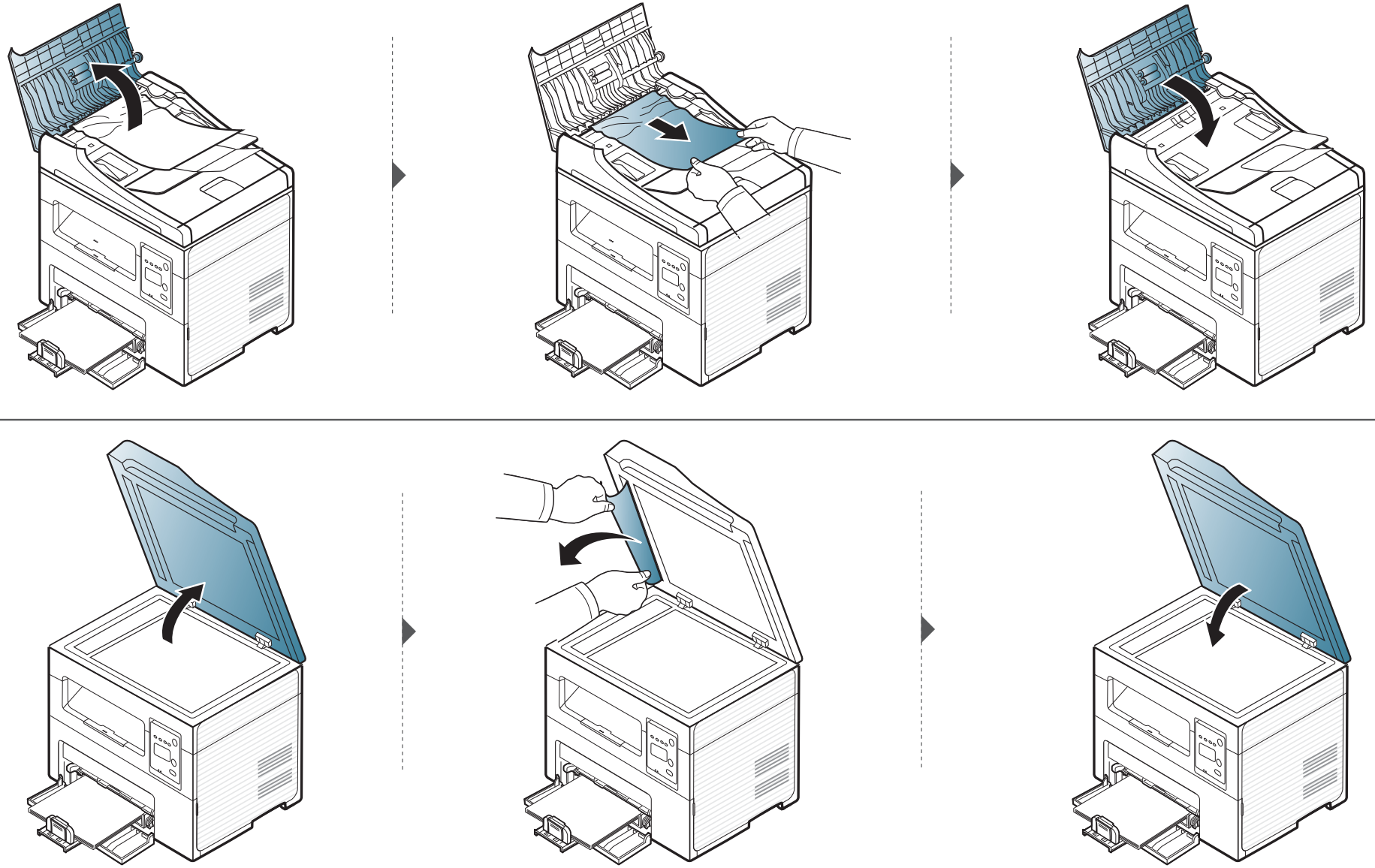


Clearing original document jams

Original paper jam inside of scanner

- Illustrations on this user's guide may differ from your machine depending on its options or models. Check your machine type (see "Front view" on page 22).
- This troubleshooting may not be available depending on model or optional goods (see "Variety feature" on page 10).

Clearing original document jams



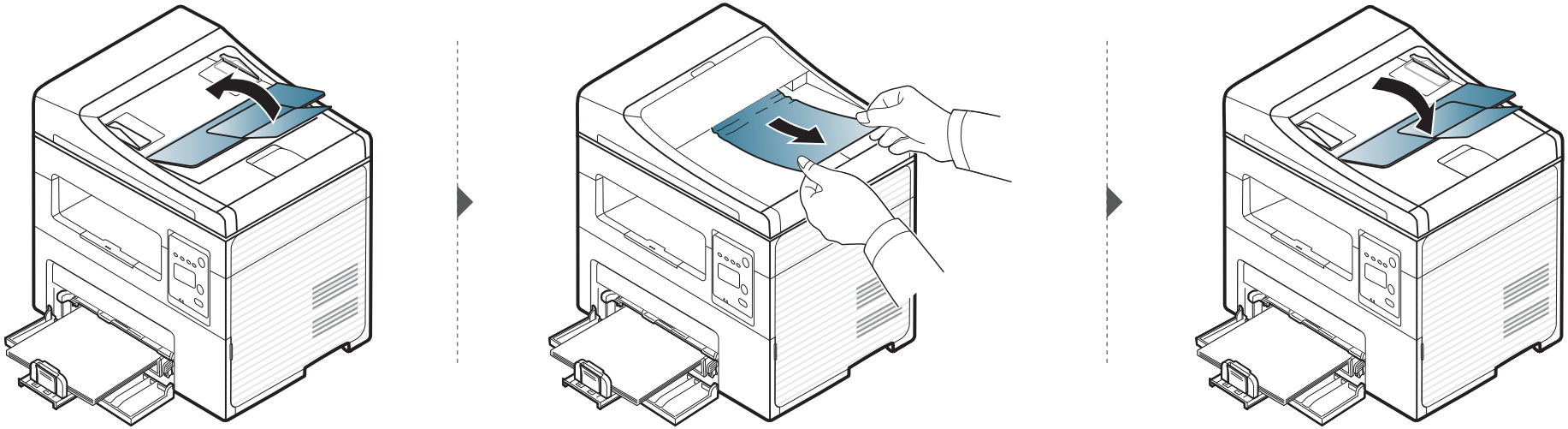
Clearing original document jams

Original paper jam in exit area of scanner

- Illustrations on this user's guide may differ from your machine depending on its options or models. Check your machine type (see "Front view" on page 22).
- This troubleshooting may not be available depending on model or optional goods (see "Front view" on page 22).

1 Remove any remaining pages from the document feeder.

2 Gently remove the jammed paper from the document feeder.

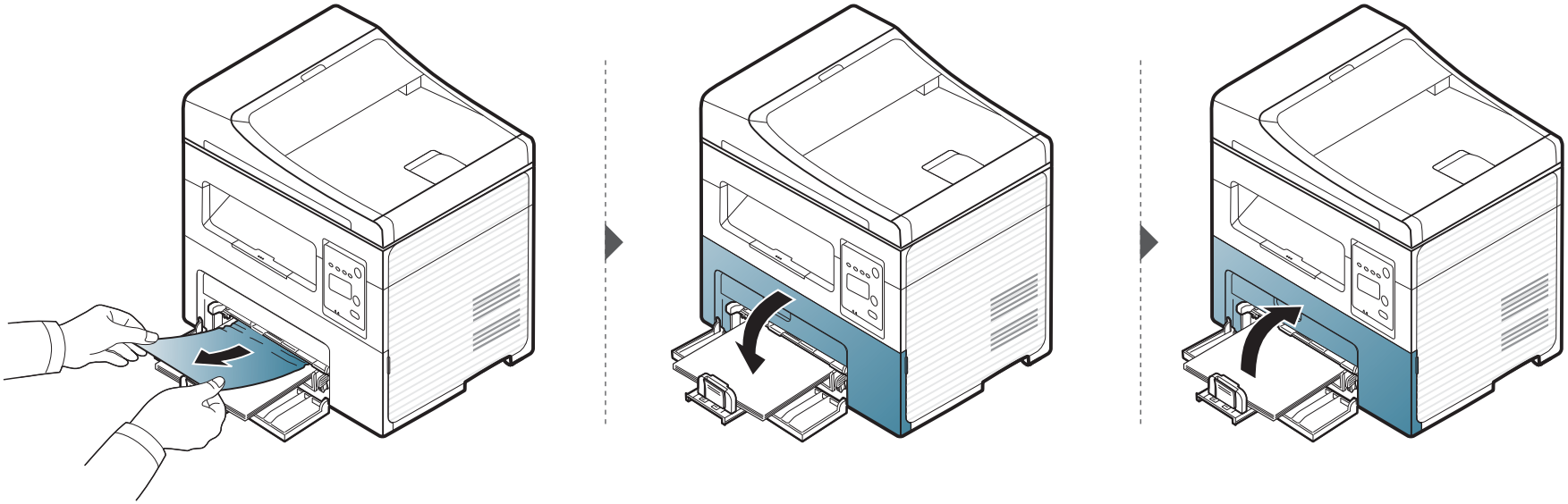


Clearing paper jams

To avoid tearing the paper, pull the jammed paper out slowly and gently.

In tray

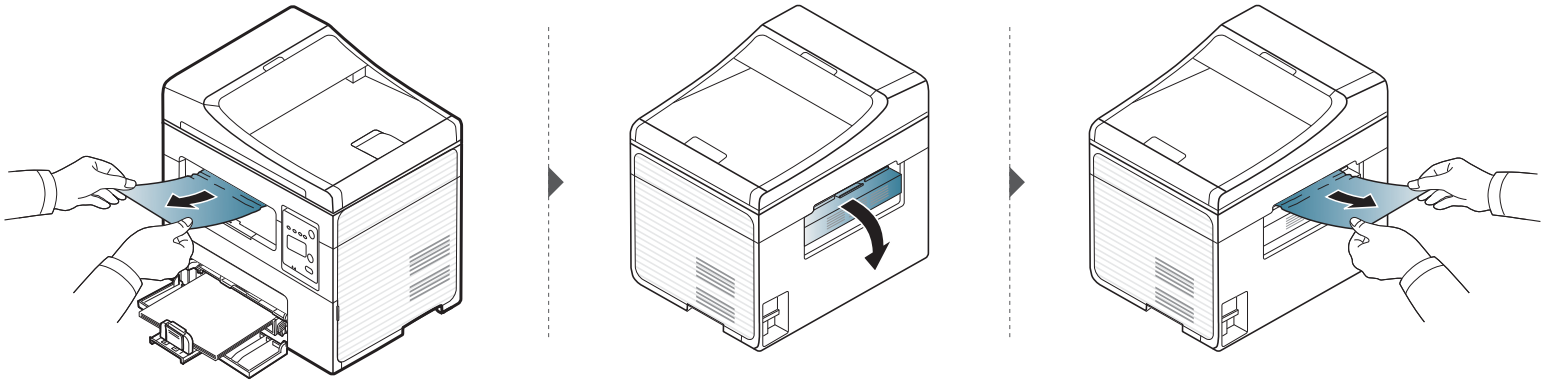
Illustrations on this user's guide may differ from your machine depending on its options or models. Check your machine type (see "Front view" on page 22).

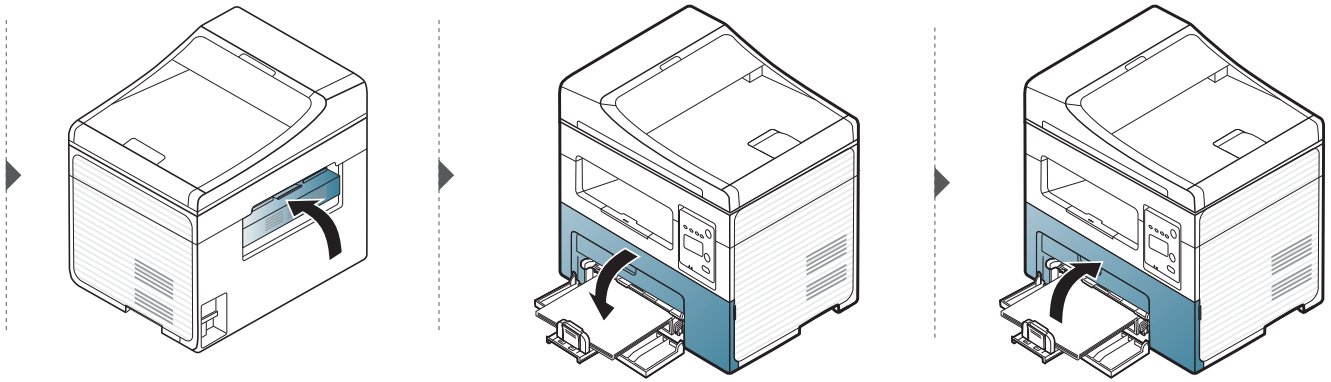


Clearing paper jams

Inside the machine

- The fuser area is hot. Take care when removing paper from the machine.
- Illustrations on this user's guide may differ from your machine depending on its options or models. Check your machine type (see "Front view" on page 22).





Understanding the status LED

The color of the LED indicates the machine's current status.

- Some LEDs may not be available depending on model or country (see "Control panel overview" on page 25).
- To resolve the error, look at the error message and its instructions from the troubleshooting part (see "Understanding display messages" on page 94).
- You also can resolve the error with the guideline from the computers's Samsung Printing Status program window (see "Using Samsung Printer Status" on page 213).
- If the problem persists, call a service representative.

LED	Status		Description
Status	**Off**		The machine is off-line.
	Green	**Blinking**	When the backlight blinks, the machine is receiving or printing data.
		On	• The machine is on-line and can be used.
	Red	**Blinking**	• A minor error has occurred and the machine is waiting for the error to be cleared. Check the display message. When the problem is cleared, the machine resumes. • Small amount of toner is left in the cartridge. The estimated cartridge life[a] of toner is close. Prepare a new cartridge for replacement. You may temporarily increase the printing quality by redistributing the toner (see "Redistributing toner" on page 72).
		On	• A toner cartridge has almost reached its estimated cartridge life[a]. It is recommended to replace the toner cartridge (see "Replacing the toner cartridge" on page 74). • The cover is opened. Close the cover. • There is no paper in the tray when receiving or printing data. Load paper in the tray. • The machine has stopped due to a major error. Check the display message (see "Understanding display messages" on page 94). • A paper jam has occurred (see "Clearing paper jams" on page 90).

Understanding the status LED

LED	Status		Description
( ) **Power / Wakeup**	**Blue**	**On**	The machine is in power save mode.
		Off	The machine is in ready mode or machine's power is off.
Eco	**Green**	**On**	Eco mode is on. The default setting of Eco mode is 2-up and toner save.
		Off	Eco mode is off.

a. Estimated cartridge life means the expected or estimated toner cartridge life, which indicates the average capacity of print-outs and is designed pursuant to ISO/IEC 19752. The number of pages may be affected by operating environment, percentage of image area, printing interval, graphics, media and media size. Some amount of toner may remain in the cartridge even when red LED is on and the printer stops printing.

Understanding display messages

Messages appear on the control panel display to indicate the machine's status or errors. Refer to the tables below to understand the messages' and their meaning, and correct the problem, if necessary.

- If a message is not in the table, reboot the power and try the printing job again. If the problem persists, call a service representative.
- When you call for service, provide the service representative with the contents of display message.
- Some messages may not appear on the display depending on the options or models.
- [error number] indicates the error number.

Paper Jam-related messages

Message	Meaning	Suggested solutions
Document jam. **Remove jam**	The loaded original document has jammed in the document feeder.	Clear the jam (see "Clearing original document jams" on page 85).
Jam or empty **Door open&close**	• Paper has jammed in the paper feed area. • There is no paper in tray.	• Clear the jam (see "In tray" on page 90). • Load paper in tray (see "Loading paper in the tray" on page 39).
Paper Jam **inside machine**	Paper has jammed in the inside machine.	Clear the jam (see "Inside the machine" on page 91).

Understanding display messages

Toner-related messages

Message	Meaning	Suggested solutions
Install Toner Cartridge	A toner cartridge is not installed.	Install a toner cartridge.
Not Compatible Toner cartridge	The toner cartridge you have installed is not for your machine.	Install a Samsung-genuine toner cartridge, designed for your machine.
Prepare new cartridge	Small amount of toner is left in the indicated cartridge. The estimated cartridge life of toner is close.	Prepare a new cartridge for a replacement. You may temporarily increase the printing quality by redistributing the toner (see "Redistributing toner" on page 72).

Understanding display messages

Message	Meaning	Suggested solutions
Replace new cartridge	The indicated toner cartridge has almost reached its estimated cartridge life. Estimated cartridge life means the expected or estimated toner cartridge life, which indicates the average capacity of print-outs and is designed pursuant to ISO/IEC 19752 (see "Available supplies" on page 68). The number of pages may be affected by operating environment, percentage of image area, printing interval, media, percentage of image area, and media size. Some amount of toner may remain in the cartridge even when replace new cartridge appears and the machine stops printing.	• You can choose **Stop** or **Continue** as shown on the control panel. If you select **Stop**, the printer stops printing and you cannot print any more without changing the cartridge. If you select **Continue**, the printer keeps printing but the printing quality cannot be guaranteed. • Replace the toner cartridge for the best print quality when this message appears. Using a cartridge beyond this stage can result in printing quality issues (see "Replacing the toner cartridge" on page 74). Samsung does not recommend using a non-genuine Samsung toner cartridge such as refilled or remanufactured. Samsung cannot guarantee a non-genuine Samsung toner cartridge's quality. Service or repair required as a result of using non-genuine Samsung toner cartridges will not be covered under the machine warranty.

Understanding display messages

Network-related messages

Message	Meaning	Suggested solutions
Network Problem: **IP Conflict**	The network IP address you have set is being used by someone else.	Check the IP address and reset it if necessary (see "Printing a network configuration report" on page 134).

Understanding display messages

Misc. messages

Message	Meaning	Suggested solutions
Door Open **Close it**	The cover is not securely latched.	Close the cover until it locks into place.
Door of scanner is open.	The document feeder cover is not securely latched.	Close the cover until it locks into place.
Error [error number] **Turn off then on**	The machine unit cannot be controlled.	Reboot the power and try the printing job again. If the problem persists, please call for service.
Error [error number] **Call for service**		
Scanner Locked	The scanner is locked.	Reboot the power. If the problem persists, please call for service.

5. Appendix

This chapter provides product specifications and information concerning applicable regulations.

- **Specifications** 100
- **Regulatory information** 110
- **Copyright** 123

Specifications

General specifications

The specification values listed below are subject to change without notice. See **www.samsung.com** for possible changes in information.

Items		Description	
Dimension	**Width x Length x Height**	SCX-465x Series SCX-4021S Series	410 x 295 x 341mm
		SCX-465xN Series SCX-4321NS Series SCX-465xF Series SCX-4521FS Series SCX-4521HS Series SCX-465xFN Series SCX-465xHN Series[a] SCX-4521NS Series	410 x 295 x 388 mm

Specifications

Items		Description	
Weight	**Machine with consumables**	SCX-465x Series SCX-4021S Series	8.87 Kg
		SCX-465xN Series SCX-4321NS Series SCX-465xF Series SCX-4521FS Series SCX-4521HS Series[a] SCX-465xFN Series SCX-465xHN Series[a] SCX-4521NS Series[a]	9.77 Kg
Noise Level[b]	**Ready mode**	Less than 26 dB (A)	
	Print mode	Less than 53 dB (A)	
	Copy mode	Scanner glass	Less than 53 dB (A)
		Document feeder	Less than 55 dB (A)
	Scan mode	Scanner glass	Less than 52 dB (A)
		Document feeder	Less than 54 dB (A)
Temperature	**Operation**	10 to 32°C (50 to 89.6°F)	
	Storage (packed)	-20 to 40°C (-4 to 104°F)	
Humidity	**Operation**	20 to 80% RH	
	Storage (packed)	10 to 90% RH	

Specifications

Items		Description
Power rating[c]	**110 volt models**	AC 110 - 127 V
	220 volt models	AC 220 - 240 V
Power consumption	**Average operating mode**	Less than 450 W
	Ready mode	Less than 65W
	Power save mode	• **SCX-465x/4021S Series:** Less than 1.0 W • **SCX-465xN/4321NS Series:** Less than 1.1 W • **SCX-465xF4521FS/4521HS Series:** Less than 1.3 W • **SCX-465xFN/465xHN/4521NS Series:** Less than 1.5 W
	Power off mode	Less than 0.45 W

a. Dimensions and weight are measured without a handset.
b. Sound Pressure Level, ISO 7779. Configuration tested: basic machine installation, A4 paper, simplex printing.
c. See the rating label on the machine for the correct voltage (V), frequency (hertz) and of current (A) for your machine.

Specifications

Print media specifications

Type	Size	Dimensions	Print media weight/Capacity[a]	
			Tray	Manual feeding[b]
Plain paper	**Letter**	216 x 279 mm (8.5 x 11 inches)	71 to 85 g/m^2 (19 to 23 lbs bond) • 250 sheets of 75 g/m^2 (21 lbs bond)	71 to 85 g/m^2 (19 to 23 lbs bond) • 1 sheet
	Legal	216 x 356 mm (8.5 x 14 inches)		
	US Folio	216 x 330 mm (8.5 x 13 inches)		
	A4	210 x 297 mm (8.27 x 11.69 inches)		
	Oficio	216 x 343 mm (8.5 x 13.5 inches)		
	JIS B5	182 x 257 mm (7.17 x 10.12 inches)		
	ISO B5	176 x 250 mm (6.93 x 9.84 inches)		
	Executive	184 x 267 mm (7.25 x 10.5 inches)		
	A5	148 x 210 mm (5.83 x 8.27 inches)		
	A6	105 X 148 mm (4.12 x 5.83 inches)	Unavailable	
Envelope	**Envelope Monarch**	98 x 191 mm (3.87 x 7.5 inches)	Unavailable	75 to 90 g/m^2 (20 to 24 lbs bond) • 1 sheet
	Envelope No. 10	105 x 241 mm (4.12 x 9.5 inches)		
	Envelope DL	110 x 220 mm (4.33 x 8.66 inches)		
	Envelope C5	162 x 229 mm (6.38 x 9.02 inches)		

Specifications

Type	Size	Dimensions	Print media weight/Capacity[a]	
			Tray	Manual feeding[b]
Thick paper	**Refer to the Plain paper section**	Refer to the Plain paper section	Unavailable	86 to 120 g/m^2 (23 to 32 lbs bond) • 1 sheet
Thin paper	**Refer to the Plain paper section**	Refer to the Plain paper section	60 to 70 g/m^2 (16 to 19 lbs bond) • 260 sheets of 60 g/m^2 (16 lbs bond)	60 to 70 g/m^2 (16 to 19 lbs bond) • 1 sheet
Cotton	**Refer to the Plain paper section**	Refer to the Plain paper section	Unavailable	75 to 90 g/m^2 (20 to 24 lbs bond) • 1 sheet
Colored	**Refer to the Plain paper section**	Refer to the Plain paper section	75 to 90 g/m^2 (20 to 24 lbs bond) • 240 sheets of 80 g/m^2 (21 lbs bond)	75 to 90 g/m^2 (20 to 24 lbs bond) • 1 sheet
Pre-printed	**Refer to the Plain paper section**	Refer to the Plain paper section	75 to 90 g/m^2 (20 to 24 lbs bond) • 240 sheets of 80 g/m^2 (21 lbs bond)	75 to 90 g/m^2 (20 to 24 lbs bond) • 1 sheet
Recycled	**Refer to the Plain paper section**	Refer to the Plain paper section	60 to 90 g/m^2 (16 to 24 lbs bond) • 250 sheets of 75 g/m^2 (21 lbs bond)	60 to 90 g/m^2 (16 to 24 lbs bond) • 1 sheet
Labels[c]	**Refer to the Plain paper section**	Refer to the Plain paper section	Unavailable	120 to 150 g/m^2 (32 to 40 lbs bond) • 1 sheet
Card stock	**Letter, Legal, US Folio, A4, JIS B5, ISO B5, Executive, A5,A6 Postcard 4x6**	Refer to the Plain paper section	Unavailable	121 to 163 g/m^2 (32 to 43 lbs bond) • 1 sheet

Specifications

Type	Size	Dimensions	Print media weight/Capacity[a]	
			Tray	Manual feeding[b]
Bond paper	**Refer to the Plain paper section**	Refer to the Plain paper section	Unavailable	• 1 sheet
Archive	**Refer to the Plain paper section**	Refer to the Plain paper section	Unavailable	• 1 sheet
Minimum size (custom)		76 x 127 mm (3 x 5 inches)	60 to 163 g/m^2 (16 to 43 lbs bond)	
Maximum size (custom)		216 x 356 mm (8.5 x 14 inches)		

a. Maximum capacity may differ depending on media weight, thickness, and environmental conditions.
b. 1 sheet for manual feeding.
c. The smoothness of the labels used in this machine is 100 to 250 (sheffield). This means the numeric level of smoothness.

Specifications

System requirements

Microsoft® Windows®

Operating system	Requirement (recommended)		
	CPU	RAM	free HDD space
Windows® 2000	Intel® Pentium® II 400 MHz (Pentium III 933 MHz)	64 MB (128 MB)	600 MB
Windows® XP	Intel® Pentium® III 933 MHz (Pentium IV 1 GHz)	128 MB (256 MB)	1.5 GB
Windows Server® 2003	Intel® Pentium® III 933 MHz (Pentium IV 1 GHz)	128 MB (512 MB)	1.25 GB to 2 GB
Windows Server® 2008	Intel® Pentium® IV 1 GHz (Pentium IV 2 GHz)	512 MB (2 GB)	10 GB
Windows Vista®	Intel® Pentium® IV 3 GHz	512 MB (1 GB)	15 GB
Windows® 7	Intel® Pentium® IV 1 GHz 32-bit or 64-bit processor or higher	1 GB (2 GB)	16 GB
	• Support for DirectX® 9 graphics with 128 MB memory (to enable the Aero theme). • DVD-R/W Drive		
Windows Server® 2008 R2	Intel® Pentium® IV 1 GHz (x86) or 1.4 GHz (x64) processors (2 GHz or faster)	512 MB (2 GB)	10 GB

- Internet Explorer 6.0 or higher is the minimum requirement for all Windows operating systems.
- Users who have administrator rights can install the software.
- **Windows Terminal Services** is compatible with your machine.
- For **Windows 2000**, **Services Pack 4** or higher is required.

Specifications

Macintosh

Operating system	Requirements (Recommended)		
	CPU	RAM	Free HDD space
Mac OS X 10.4	• Intel® processors • PowerPC G4/G5	• 128 MB for a powerPC based Mac (512 MB) • 512 MB for an Intel-based Mac (1 GB)	1 GB
Mac OS X 10.5	• Intel® processors • 867 MHz or faster Power PC G4/G5	512 MB (1 GB)	1 GB
Mac OS X 10.6	• Intel® processors	1 GB (2 GB)	1 GB
Mac OS X 10.7	• Intel® processors	2 GB	4 GB

Specifications

Linux

Items	Requirements
Operating system	Redhat® Enterprise Linux WS 4, 5 (32/64 bit) Fedora 5 ~ 13 (32/64 bit) SuSE Linux 10.1 (32 bit) OpenSuSE® 10.2, 10.3, 11.0, 11.1, 11.2 (32/64 bit) Mandriva 2007, 2008, 2009, 2009.1, 2010 (32/64 bit) Ubuntu 6.06, 6.10, 7.04, 7.10, 8.04, 8.10, 9.04, 9.10, 10.04 (32/64 bit) SuSE Linux Enterprise Desktop 10, 11 (32/64 bit) Debian 4.0, 5.0 (32/64 bit)
CPU	Pentium IV 2.4GHz (Intel Core™2)
RAM	512 MB (1GB)
Free HDD space	1 GB (2 GB)

Specifications

Network environment

Network models only (see "Features by models" on page 7).

You need to set up the network protocols on the machine to use it as your network machine. The following table shows the network environments supported by the machine.

Items	Specifications
Network interface	• Ethernet 10/100 Base-TX Wired Lan
Network operating system	• Windows® 2000, Windows® XP, Windows Server® 2003, Windows Vista®, Windows® 7, Windows Server® 2008 R2 • Various Linux OS • Mac OS X 10.4 ~10.7
Network protocols	• TCP/IPv4 • DHCP, BOOTP • DNS, WINS, Bonjour, SLP, UPnP • Standard TCP/IP Printing (RAW), LPR, IPP, WSD • SNMPv 1/2/3, HTTP • TCP/IPv6 (DHCP, DNS, RAW, LPR, SNMPv 1/2/3, HTTP, IPSec)

Regulatory information

This machine is designed for a normal work environment and certified with several regulatory statements.

Laser safety statement

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR, chapter 1 Subchapter J for Class I(1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 60825-1 : 2007.

Class I laser products are not considered to be hazardous. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance or prescribed service condition.

Warning

Never operate or service the printer with the protective cover removed from laser/scanner assembly. The reflected beam, although invisible, can damage your eyes.

When using this product, these basic safety precautions should always be followed to reduce risk of fire, electric shock, and injury to persons:

CAUTION - CLASS 3B. INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM.

DANGER - INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.

DANGER - KLASSE 3B. UNSICHTBARE LASERSTRAHLUNG, WENN OFFEN. STRAHLENAUSSETZUNG VERMEIDEN.

VORSICHT - UNSICHTBARE LASERSTRAHLUNG KLASSE 3 B, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

ATTENZIONE - CLASSE 3B. RADIZIONI LASER INVISBILI CON IL DISPOSITIVO APERTO. EVITARE L'ESPOSIZIONE AL RAGGIO.

PRECAUCIÓN - RADIACIÓN LÁSER INVISIBLE DE CLASE 3B PRESENTE AL ABRIR. EVITE LA EXPOSICIÓN AL HAZ.

PERIGO - CLASSE 3B. RADIAÇÃO LASER INVISÍVEL AO ABRIR. EVITE EXPOSIÇÃO DIRECTA AO FEIXE.

GEVAAR - KLASSE 3B. ONZICHTBARE LASERSTRALING INDIEN GEOPEND. VERMIJD BLOOTSTELLING AAN DE STRAAL.

ADVARSEL - KLASSE 3B. USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.

ADVARSEL. - KLASSE 3B. USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.

VARNING - KLASS 3B OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.

VAROITUS - LUOKAN 3B NÄKYMÄTTÖMÄLLE LASER-SÄTEILYÄ AVATTUNA. VÄLTÄ ALTISTUMISTA SÄTEELLE.

注 意 - CLASS 3B。严禁打开，以免被不可见激光辐射泄漏灼伤

주 의 - 열리면 등급 3B 비가시 레이저 방사선 이 방출됩니다. 광선에 노출을 피하십시오.

Regulatory information

Ozone safety

This product's ozone emission rate is under 0.1 ppm. Because ozone is heavier than air, keep the product in a place with good ventilation.

Mercury Safety

Contains Mercury, Dispose According to Local, State or Federal Laws.(U.S.A. only)

Power saver

This printer contains advanced energy conservation technology that reduces power consumption when it is not in active use.

When the printer does not receive data for an extended period of time, power consumption is automatically lowered.

ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.

For more information on the ENERGY STAR program see http://www.energystar.gov

For ENERGY STAR certified models, the ENRGY STAR label will be on your machine. Check if your machine is ENERGY STAR certified.

Recycling

Recycle or dispose of the packaging material for this product in an environmentally responsible manner.

Regulatory information

China only

回收和再循环

为了保护环境，我公司已经为废弃的产品建立了回收和再循环系统。
我们会为您无偿提供回收同类废旧产品的服务。
当您要废弃您正在使用的产品时，请您及时与授权耗材更换中心取得联系，
我们会及时为您提供服务。

中国能效标识

型号	能效等级	典型能耗 (kW·h)
SCX-4021S	1	1.2
SCX-4321NS		
SCX-4521HS	1	1.3
SCX-4521NS		

依据国家标准 ：GB 25956-2010

Correct disposal of this product (Waste electrical & electronic equipment)

(Applicable in the european union and other european countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other s of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Regulatory information

(The United States of America only)

Dispose unwanted electronics through an approved recycler. To find the nearest recycling location, go to our website: www.samsung.com/recyclingdirect Or call, (877) 278 - 0799

Taiwan only

警告

本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

Radio frequency emissions

FCC information to the user

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or experienced radio TV technician for help.

Change or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Regulatory information

Canadian radio interference regulations

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled “Digital Apparatus”, ICES-003 of the Industry and Science Canada.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: “Appareils Numériques”, ICES-003 édictée par l’Industrie et Sciences Canada.

United States of America

Federal Communications Commission (FCC)

Intentional emitter per FCC Part 15

Low power, Radio LAN devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz/5 GHz Band, may be present (embedded) in your printer system. This section is only applicable if these devices are present. Refer to the system label to verify the presence of wireless devices.

Wireless devices that may be in your system are only qualified for use in the United States of America if an FCC ID number is on the system label.

The FCC has set a general guideline of 20 cm (8 inches) separation between the device and the body, for use of a wireless device near the body (this does not include extremities). This device should be used more than 20 cm (8 inches) from the body when wireless devices are on. The power output of the wireless device (or devices), which may be embedded in your printer, is well below the RF exposure limits as set by the FCC.

This transmitter must not be collocated or operation in conjunction with any other antenna or transmitter.

Operation of this device is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Contact manufacturer for service.

Regulatory information

FCC Statement for Wireless LAN use:

While installing and operating this transmitter and antenna combination the radio frequency exposure limit of 1m W/cm2 may be exceeded at distances close to the antenna installed. Therefore, the user must maintain a minimum distance of 20cm from the antenna at all times. This device cannot be colocated with another transmitter and transmitting antenna.

Russia only

AB57

AB57

Минсвязи России

CCC
Минсвязи России

Germany only

Das Gerät ist nicht für die Benutzung am Bildschirmarbeitsplatz gemäß BildscharbV vorgesehen.

Turkey only

- RoHS

  EEE Yönetmeliğine Uygundur.
  This EEE is compliant with RoHS.

- Bu ürünün ortalama yaşam süresi 7 yıl, garanti suresi 2 yildir.

Regulatory information

Canada only

This product meets the applicable Industry Canada technical specifications. / Le present materiel est conforme aux specifications techniques applicables d'Industrie Canada.

The Ringer Equivalence Number (REN) is an indication of the maximum number of devices allowed to be connected to a telephone interface. The termination of an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices not exceed five. / L'indice d'equivalence de la sonnerie (IES) sert a indiquer le nombre maximal de terminaux qui peuvent etre raccordes a une interface telephonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, a la seule condition que la somme d'indices d'equivalence de la sonnerie de tous les dispositifs n'excede pas cinq.

Fax Branding

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device to send any message via a telephone facsimile machine unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission the following information:

1. the date and time of transmission
2. identification of either business, business entity or individual sending the message; and
3. telephone number of either the sending machine, business, business entity or individual.

The Telephone Company may make changes in its communications facilities, equipment operations or procedures where such action is reasonably required in the operation of its business and is not inconsistent with the rules and regulations in FCC Part 68. If such changes can be reasonably expected to render any customer terminal equipment incompatible with telephone company communications facilities, or require modification or alteration of such terminal equipment, or otherwise materially affect its use or performance, the customer shall be given adequate notice in writing, to allow the customer an opportunity to maintain uninterrupted service

Regulatory information

Ringer Equivalence Number

The Ringer Equivalence Number and FCC Registration Number for this machine may be found on the label located on the bottom or rear of the machine. In some instances you may need to provide these numbers to the telephone company.

The Ringer Equivalence Number (REN) is a measure of the electrical load placed on the telephone line, and is useful for determining whether you have "overloaded" the line. Installing several s of equipment on the same telephone line may result in problems making and receiving telephone calls, especially ringing when your line is called. The sum of all Ringer Equivalence Numbers of the equipment on your telephone line should be less than five in order to assure proper service from the telephone company. In some cases, a sum of five may not be usable on your line. If any of your telephone equipment is not operating properly, you should immediately remove it from your telephone line, as it may cause harm to the telephone network.

The equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the rear of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

FCC Regulations state that changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment. In the event that terminal equipment causes harm to the telephone network, the telephone company should notify the customer that service may be stopped. However, where prior notice is impractical, the company may temporarily cease service, providing that they:

a promptly notify the customer.

b give the customer an opportunity to correct the equipment problem.

c inform the customer of the right to bring a complaint to the Federal Communication Commission pursuant to procedures set out in FCC Rules and Regulations Subpart E of Part 68.

You should also know that:

- Your machine is not designed to be connected to a digital PBX system.
- If you intend to use a computer modem or fax modem on the same phone line as your machine, you may experience transmission and reception problems with all the equipment. It is recommended that no other equipment, except for a regular telephone, share the line with your machine.
- If your area experiences a high incidence of lightning or power surges, we recommend that you install surge protectors for both the power and the telephone lines. Surge protectors can be purchased from your dealer or telephone and electronic specialty stores.

- When programming emergency numbers and/or making test calls to emergency numbers, use a non-emergency number to advise the emergency service dispatcher of your intentions. The dispatcher will give you further instructions on how to actually test the emergency number.
- This machine may not be used on coin service or party lines.
- This machine provides magnetic coupling to hearing aids.

You may safely connect this equipment to the telephone network by means of a standard modular jack, USOC RJ-11C.

Replacing the Fitted Plug (for UK Only)

Important

The mains lead for this machine is fitted with a standard (BS 1363) 13 amp plug and has a 13 amp fuse. When you change or examine the fuse, you must re-fit the correct 13 amp fuse. You then need to replace the fuse cover. If you have lost the fuse cover, do not use the plug until you have another fuse cover.

Contact the people from you purchased the machine.

The 13 amp plug is the most widely used in the UK and should be suitable. However, some buildings (mainly old ones) do not have normal 13 amp plug sockets. You need to buy a suitable plug adaptor. Do not remove the moulded plug.

If you cut off the moulded plug, get rid of it straight away.

You cannot rewire the plug and you may receive an electric shock if you plug it into a socket.

Important warning:

You must earth this machine.

The wires in the mains lead have the following color code:

- **Green and Yellow:** Earth
- **Blue:** Neutral
- **Brown:** Live

If the wires in the mains lead do not match the colors marked in your plug, do the following:

You must connect the green and yellow wire to the pin marked by the letter “E” or by the safety ‘Earth symbol’ or colored green and yellow or green.

You must connect the blue wire to the pin which is marked with the letter “N” or colored black.

You must connect the brown wire to the pin which is marked with the letter “L” or colored red.

You must have a 13 amp fuse in the plug, adaptor, or at the distribution board.

Regulatory information

Declaration of conformity (European countries)

Approvals and Certifications

Hereby, Samsung Electronics, declares that this [SCX-465x Series/ SCX-4021S Series] is in compliance with the essential requirements and other relevant provisions of Low Voltage Directive (2006/95/EC), EMC Directive (2004/108/EC).

CE

Hereby, Samsung Electronics, declares that this [SCX-465xN Series/ SCX-4321NS Series/SCX-465xF Series/SCX-4521FS Series/SCX-4521HS Series/SCX-465xFN Series/SCX-465xHN Series/SCX-4521NS Series] is in compliance with the essential requirements and other relevant provisions of R&TTE Directive 1999/5/EC.

The declaration of conformity may be consulted at **www.samsung.com**, go to Support > Download center and enter your printer (MFP) name to browse the EuDoC.

January 1, 1995: Council Directive 2006/95/EC Approximation of the laws of the member states related to low voltage equipment.

January 1, 1996: Council Directive 2004/108/EC, approximation of the laws of the Member States related to electromagnetic compatibility.

March 9, 1999: Council Directive 1999/5/EC on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity. A full declaration, defining the relevant Directives and referenced standards can be obtained from your Samsung Electronics Co., Ltd. representative.

EC Certification

Certification to 1999/5/EC Radio Equipment & Telecommunications Terminal Equipment Directive (FAX)

This Samsung product has been self-certified by Samsung for pan-European single terminal connection to the analogue public switched telephone network (PSTN) in accordance with Directive 1999/5/EC. The product has been designed to work with the national PSTNs and compatible PBXs of the European countries:

In the event of problems, you should contact the Euro QA Lab of Samsung Electronics Co., Ltd. in the first instance.

The product has been tested against TBR21. To assist in the use and application of terminal equipment which complies with this standard, the European Telecommunication Standards Institute (ETSI) has issued an advisory document (EG 201 121) which contains notes and additional requirements to ensure network compatibility of TBR21 terminals. The product has been designed against, and is fully compliant with, all of the relevant advisory notes contained in this document.

Regulatory information

European radio approval information (for products fitted with EU-approved radio devices)

Low power, Radio LAN type devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz/5 GHz band, may be present (embedded) in your printer system which is intended for home or office use. This section is only applicable if these devices are present. Refer to the system label to verify the presence of wireless devices.

CE ⓘ

Wireless devices that may be in your system are only qualified for use in the European Union or associated areas if a CE mark with a Notified Body Registration Number and the Alert Symbol is on the system label.

The power output of the wireless device or devices that may be embedded in you printer is well below the RF exposure limits as set by the European Commission through the R&TTE directive.

European states qualified under wireless approvals:

EU countries

European states with restrictions on use:

EU

In France, the frequency range is restricted to 2454-2483.5 MHz for devices above 10 mW transmitting power such as wireless

EEA/EFTA countries

No limitations at this time

Israel only

מס׳ אישור אלחוטי של משרד התקשורת הוא 51-28466
אסור להחליף את האנטנה המקורית של המכשיר,
ולא לעשות בו כל שינוי טכני אחר.

Regulatory compliance statements

Wireless guidance

Low power, Radio LAN devices (radio frequency (RF) wireless communication devices), operating in the 2.4 GHz/5 GHz Band, may be present (embedded) in your printer system. The following section is a general overview of considerations while operating a wireless device.

Additional limitations, cautions, and concerns for specific countries are listed in the specific country sections (or country group sections). The wireless devices in your system are only qualified for use in the countries identified by the Radio Approval Marks on the system rating label. If the country you will be using the wireless device in, is not listed, contact your local Radio Approval agency for requirements. Wireless devices are closely regulated and use may not be allowed.

Regulatory information

The power output of the wireless device or devices that may be embedded in your printer is well below the RF exposure limits as known at this time. Because the wireless devices (which may be embedded into your printer) emit less energy than is allowed in radio frequency safety standards and recommendations, manufacturer believes these devices are safe for use. Regardless of the power levels, care should be taken to minimize human contact during normal operation.

As a general guideline, a separation of 20 cm (8 inches) between the wireless device and the body, for use of a wireless device near the body (this does not include extremities) is typical. This device should be used more than 20 cm (8 inches) from the body when wireless devices are on and transmitting.

This transmitter must not be collocated or operation in conjunction with any other antenna or transmitter.

Some circumstances require restrictions on wireless devices. Examples of common restrictions are listed below:

Radio frequency wireless communication can interfere with equipment on commercial aircraft. Current aviation regulations require wireless devices to be turned off while traveling in an airplane. IEEE 802.11 (also known as wireless Ethernet) and Bluetooth communication devices are examples of devices that provide wireless communication.

In environments where the risk of interference to other devices or services is harmful or perceived as harmful, the option to use a wireless device may be restricted or eliminated. Airports, Hospitals, and Oxygen or flammable gas laden atmospheres are limited examples where use of wireless devices may be restricted or eliminated. When in environments where you are uncertain of the sanction to use wireless devices, ask the applicable authority for authorization prior to use or turning on the wireless device.

Every country has different restrictions on the use of wireless devices. Since your system is equipped with a wireless device, when traveling between countries with your system, check with the local Radio Approval authorities prior to any move or trip for any restrictions on the use of a wireless device in the destination country.

If your system came equipped with an internal embedded wireless device, do not operate the wireless device unless all covers and shields are in place and the system is fully assembled.

Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Contact manufacturer for service.

Only use drivers approved for the country in which the device will be used. See the manufacturer System Restoration Kit, or contact manufacturer Technical Support for additional information.

Regulatory information

China only

产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr^{6+})	多溴联苯 (PBB)	多溴联苯醚 (PBDE)
塑料	O	O	O	O	O	O
金属 (机箱)	X	O	O	O	O	O
印刷电路部件 (PCA)	X	O	O	O	O	O
电缆 / 连接器	X	O	O	O	O	O
电源设备	X	O	O	O	O	O
电源线	X	O	O	O	O	O
机械部件	X	O	O	O	O	O
卡盒部件	X	O	O	O	O	O
定影部件	X	O	O	O	O	O
扫描仪部件 - CCD (如果有)	X	X	O	O	O	O
扫描仪部件 - 其它 (如果有)	X	O	O	O	O	O
印刷电路板部件 (PBA)	X	O	O	O	O	O
墨粉	O	O	O	O	O	O
滚筒	O	O	O	O	O	O

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。

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- Google, Picasa, and Google Docs are either registered trademarks or trademarks of Google Inc.
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- All other brand or product names are trademarks of their respective companies or organizations.

Refer to the '**LICENSE.txt**' file in the provided CD-ROM for the open source license information.

REV. 1.03

User's Guide

SCX-465x/465xN/4021S/4321NS Series
SCX-465xF/4521FS/4521HS Series
SCX-465xFN/465xHN/4521NS Series

ADVANCED

This guide provides information about installation, advanced configuration, operation and troubleshooting on various OS environments.

Some features may not be available depending on models or countries.

BASIC

This guide provides information concerning installation, basic operation and troubleshooting on windows.

ADVANCED

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1. Software Installation

This chapter provides instructions for installing essential and helpful software for use in an environment where the machine is connected via a cable. A locally connected machine is a machine directly attached to your computer using the cable. If your machine is attached to a network, skip the following steps below and go on to installing a network connected machine's driver (see "Installing driver over the network" on page 137).

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- If you are a Windows OS user, refer to the Basic Guide for installing the machine's driver (see "Installing the driver locally" on page 30).
- Only use a USB cable no longer then 3 meter (118 inches).

Installation for Macintosh

1. Make sure that the machine is connected to your computer and powered on.
2. Insert the supplied software CD into your CD-ROM drive.
3. Double-click the CD-ROM icon that appears on your Macintosh desktop.
4. Double-click the **MAC_Installer** folder > **Uninstaller OS X** icon.
5. Click **Continue**.
6. Read the license agreement and click **Continue**.
7. Click **Agree** to agree to the license agreement.
8. When the message that warns that all applications will close on your computer appears, click **Continue**.
9. Click **Continue** on the **User Options Pane**.
10. Click **Install**. All components necessary for machine operations will be installed.

    If you click **Customize**, you can choose individual components to install.
11. Enter the password and click **OK**.
12. Installing software requires you to restart your computer. Click **Continue Installation**.
13. After the installation is finished, click **Quit** or **Restart**.
14. Open the **Applications** folder > **Utilities** > **Print Setup Utility**.
    - For Mac OS X 10.5 -10.7, open the **Applications** folder > **System Preferences** and click **Print & Fax**.
15. Click **Add** on the **Printer List**.
    - For Mac OS X 10.5 -10.7, click the "**+**" folder icon; a display window will pop up.
16. Click **Default Browser** and find the USB connection.
    - For Mac OS X 10.5-10.7, click **Default** and find the USB connection.
17. For Mac OS X 10.4, if Auto Select does not work properly, select **Samsung** in **Print Using** and your machine name in **Model**.
    - For Mac OS X 10.5-10.7, if Auto Select does not work properly, select **Select a driver to use...** and your machine name in **Print Using**.

    Your machine appears on the **Printer List**, and is set as the default machine.
18. Click **Add**.

To install the fax driver:

a Open the **Applications** folder > **Samsung** > **Fax Queue Creator**.

b Your machine appears on the **Printer List**

c Select machine to use and click **Create** button

Reinstallation for Macintosh

If the printer driver does not work properly, uninstall the driver and reinstall it.

1. Make sure that the machine is connected to your computer and powered on.
2. Insert the supplied software CD into your CD-ROM drive.
3. Double-click the CD-ROM icon that appears on your Macintosh desktop.
4. Double-click the **MAC_Installer** folder > **Uninstaller OS X** icon.
5. Enter the password and click **OK**.
6. When the uninstall is done, click **OK**.

If a machine has already been added, delete it from the **Print Setup Utility** or **Print & Fax**.

Installation for Linux

You need to download Linux software packages from the Samsung website to install the printer software (http://www.samsung.com > find your product > Support or Downloads).

Installing the Unified Linux Driver

1 Make sure that the machine is connected to your computer and powered on.

2 When the **Administrator Login** window appears, type “root” in the **Login** field and enter the system password.

You must log in as a super user (root) to install the machine software. If you are not a super user, ask your system administrator.

3 From the Samsung website, download the Unified Linux Driver package to your computer.

4 Right-click the **Unified Linux Driver** package and extract the package.

5 Double click **cdroot** > **autorun**.

6 When the welcome screen appears, click **Next**.

7 When the installation is complete, click **Finish**.

The installation program added the Unified Driver Configurator desktop icon and the Unified Driver group to the system menu for your convenience. If you have any difficulties, consult the on-screen help that is available through your system menu or from the driver package Windows applications, such as **Unified Driver Configurator** or **Image Manager**.

Reinstallation for Linux

If the printer driver does not work properly, uninstall the driver and reinstall it.

1. Make sure that the machine is connected to your computer and powered on.
2. When the **Administrator Login** window appears, type “root” in the **Login** field and enter the system password.

   You must log in as a super user (root) to uninstall the printer driver. If you are not a super user, ask your system administrator.
3. Open Terminal program. When the Terminal screen appears, type in the following.

   [root@localhost root]#cd /opt/Samsung/mfp/uninstall/

   [root@localhost uninstall]#./uninstall.sh
4. Click **Next**.
5. Click **Finish**.

2. Using a Network-Connected Machine

This chapter gives you step-by-step instructions for setting up a network connected machine and software.

- **Useful network programs** 133
- **Wired network setup** 134
- **Installing driver over the network** 137
- **IPv6 configuration** 146
- **Samsung Mobile Print** 149

Supported optional devices and features may differ according to your model (see "Features by models" on page 7).