

User's Guide

CLP-36x Series
CLP-36xW 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.

- **Key benefits**
- **Features by models**
- **Useful to know**
- **About this user's guide**
- **Safety information**
- **Machine overview**
- **Control panel overview**
- **Turning on the machine**
- **Installing the driver locally**
- **Reinstalling the driver**

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Key benefits

Environmentally friendly



- To save toner and paper, this machine supports the Eco feature (see "Easy Eco Driver" on page 151).
- To save paper, you can print multiple pages on a single sheet of paper (see "Using advanced print features" on page 136).
- To save paper, you can print on both sides of the paper (manual double-sided printing) (see "Using advanced print features" on page 136).
- To save electricity, this machine automatically conserves electricity by substantially reducing power consumption when not in use.

Print with excellent quality and speed



- You can print in a full range of colors using cyan, magenta, yellow, and black.
- You can print with a resolution of up to 1,200 x 1,200 dpi effective output (600 x 600 x 2 bit).
- Fast, on-demand printing.
 - For single-side black and white printing, 18 ppm (A4) or 19 ppm (Letter).

- For single-side color printing, 4 ppm (A4 or Letter).

Convenience



- You can print on the go from your smartphone or computer using Google Cloud Print enabled apps (see "Google Cloud Print" on page 130).
- 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 148).
- Samsung Easy Printer Manager and Samsung Printer Status are a program that monitors and informs you of the machine's status and allows you to customize the machine's settings (see "Using Samsung Easy Printer Manager" on page 155 or "Using Samsung Printer Status" on page 158).
- AnyWeb Print helps you screen-capture, preview, scrap, and print the screen more easily than when you use the ordinary program (see "Samsung AnyWeb Print" on page 150).
- 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 OS users.
- 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 67).
- Print watermark: You can customize your documents with words, such as "**CONFIDENTIAL**" (see "Using advanced print features" on page 136).
- 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 136).
- You can print in various operating systems (see "System requirements" on page 70).
- Your machine is equipped with a USB interface and/or a network interface.

Supports various wireless network setting method



- Using the WPS (Wi-Fi Protected Setup™) button
 - You can easily connect to a wireless network using the WPS button on the machine and the access point (a wireless router).

- Using the USB cable or a network cable
 - You can connect and set various wireless network settings using a USB cable or a network cable.
- Using the Wi-Fi Direct
 - You can conveniently print from your mobile device using the Wi-Fi or Wi-Fi Direct feature.



See "Introducing wireless set up methods" on page 107.

Features by models

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

Operating System

Operating System	CLP-36x Series	CLP-36xW Series
Windows	•	•
Macintosh	•	•
Linux	•	•

Features by models

Software



You can install the printer driver and software when you insert the software CD into your CD-ROM drive.

For windows, select the printer driver and software in the **Select Software to Install** window.

Software	CLP-36x Series	CLP-36xW Series
SPL printer driver	•	•
XPS printer driver ^a	•	•
Samsung Easy Printer Manager	•	•
Samsung Easy Color Manager ^b	•	•
Samsung Anyweb Print ^b	•	•
Samsung Printer Status	•	•
SyncThru™ Web Service		•

a. For XPS driver, You can install the XPS printer driver in the **Custom Installation** window (Refer to Software CD that was provided with your machine).

b. Download the software from the Samsung website and install it: (<http://www.samsung.com> > find your product > Support or Downloads). Before installing, check whether your computer's OS support the software.

Features by models

Variety feature

Features	CLP-36x Series	CLP-36xW Series
Hi-Speed USB 2.0	●	●
Network Interface Ethernet 10/100 Base TX wired LAN		●
Network Interface 802.11b/g/n wireless LAN ^a		●
IPv6		●
Google Cloud Print		●
Eco printing(Easy Eco Driver) ^b	●	●
Wi-Fi Protected Setup™ (WPS)		●
Manual duplex (2-sided) printing ^c	●	●

a. Depending on your country, wireless LAN card may not be available. For some counties, only 802.11 b/g can be applied.
Contact your local Samsung dealer or the retailer where you bought your machine.

b. Setting the ECO settings is available from the windows driver.

c. Available for Windows OS users only.

(●: Included, Blank: Not available)

Useful to know



Where can I download the machine's driver?

- Visit www.samsung.com/printer to download the latest machine's driver, and install it on your system.



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 61).



A paper jam has occurred.

- Open and close the top cover (see "Front view" on page 17).
- Check the instructions on removing jammed paper in this manual and troubleshoot accordingly (see "Clearing paper jams" on page 58).



Printouts are blurry.

- The toner level might be low or uneven. Shake the toner cartridge.
- Try a different print quality setting.
- Replace the toner cartridge.



The machine does not print.

- Open the print queue list and remove the document from the list (see "Canceling a print job" on page 34).
- Remove the driver and install it again (see "Installing the driver locally" on page 22).
- Select your machine as your default machine in your Windows.

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 user'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



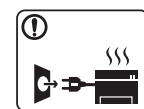
Do not use if the power cord is damaged or if the electrical outlet is not grounded.

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.

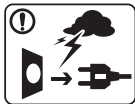







Do not remove the plug by pulling on the cord; do not handle the plug with wet hands.

This could result in electric shock or fire.






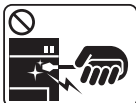
Safety information

Caution




	<p>During an electrical storm or for a period of non-operation, remove the power plug from the electrical outlet.</p> <p>This could result in electric shock or fire.</p>
	<p>Be careful, the paper output area is hot.</p> <p>Burns could occur.</p>
	<p>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.</p> <p>Otherwise, this could result in electric shock or fire.</p>
	<p>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.</p> <p>Otherwise, this could result in electric shock or fire.</p>
	<p>If the plug does not easily enter the electrical outlet, do not attempt to force it in.</p> <p>Call an electrician to change the electrical outlet, or this could result in electric shock.</p>
	<p>Do not allow pets to chew on the AC power, telephone or PC interface cords.</p> <p>This could result in electric shock or fire and/or injury to your pet.</p>

Operating method

Caution

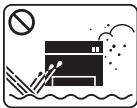
	<p>Do not forcefully pull the paper out during printing.</p> <p>It can cause damage to the machine.</p>
	<p>Be careful not to put your hand between the machine and paper tray.</p> <p>You may get injured.</p>
	<p>This machine's power reception device is the power cord.</p> <p>To switch off the power supply, remove the power cord from the electrical outlet.</p>
	<p>Be care when replacing paper or removing jammed paper.</p> <p>New paper has sharp edges and can cause painful cuts.</p>
	<p>When printing large quantities, the bottom part of the paper output area may get hot. Do not allow children to touch.</p> <p>Burns can occur.</p>
	<p>When removing jammed paper, do not use tweezers or sharp metal objects.</p> <p>It can damage the machine.</p>

Safety information

	Do not allow too many papers to stack up in the paper output tray. It can damage the machine.
	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.

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.
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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 safely.

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.





Safety information

	<p>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 110 V machine, then the gauge should be 16 AWG or larger.</p> <p>Otherwise, it can cause damage to the machine, and could result in electric shock or fire.</p>
	<p>Make sure you plug the power cord into a grounded electrical outlet.</p> <p>Otherwise, this could result in electric shock or fire.</p>
	<p>Do not overload wall outlets and extension cords.</p> <p>This can diminish performance, and could result in electric shock or fire.</p>
	<p>Do not put a cover over the machine or place it in an airtight location, such as a closet.</p> <p>If the machine is not well-ventilated, this could result in fire.</p>
	<p>The machine should be connected to the power level which is specified on the label.</p> <p>If you are unsure and want to check the power level you are using, contact the electrical utility company.</p>




a. AWG: American Wire Gauge

Maintenance / Checking

Caution


	<p>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.</p> <p>This could result in electric shock or fire.</p>
	<p>When you are working inside the machine replacing supplies or cleaning the inside, do not operate the machine.</p> <p>You could get injured.</p>
	<p>Keep cleaning supplies away from children.</p> <p>Children could get hurt.</p>
	<p>Do not disassemble, repair or rebuild the machine by yourself.</p> <p>It can damage the machine. Call a certified technician when the machine needs repairing.</p>






Safety information

	<ul style="list-style-type: none">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.
	<p>To clean and operate the machine, strictly follow the user's guide provided with the machine.</p> <p>Otherwise, you could damage the machine.</p>
	<p>Keep the power cable and the contact surface of the plug clean from dust or water.</p> <p>Otherwise, this could result in electric shock or fire.</p>

Supply usage

Caution

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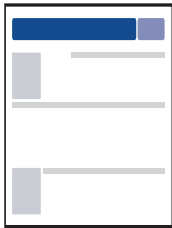
	<p>Do not burn any of the supplies such as toner cartridge or fuser unit.</p> <p>This could cause an explosion or uncontrollable fire.</p>
	<p>When storing supplies such as toner cartridges, keep them away from children.</p> <p>Toner dust can be dangerous if inhaled or ingested.</p>
	<p>When changing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

Machine overview

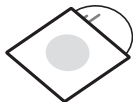
Accessories



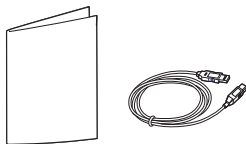
Power cord



Quick installation guide



Software CD^a



Misc. accessories^b

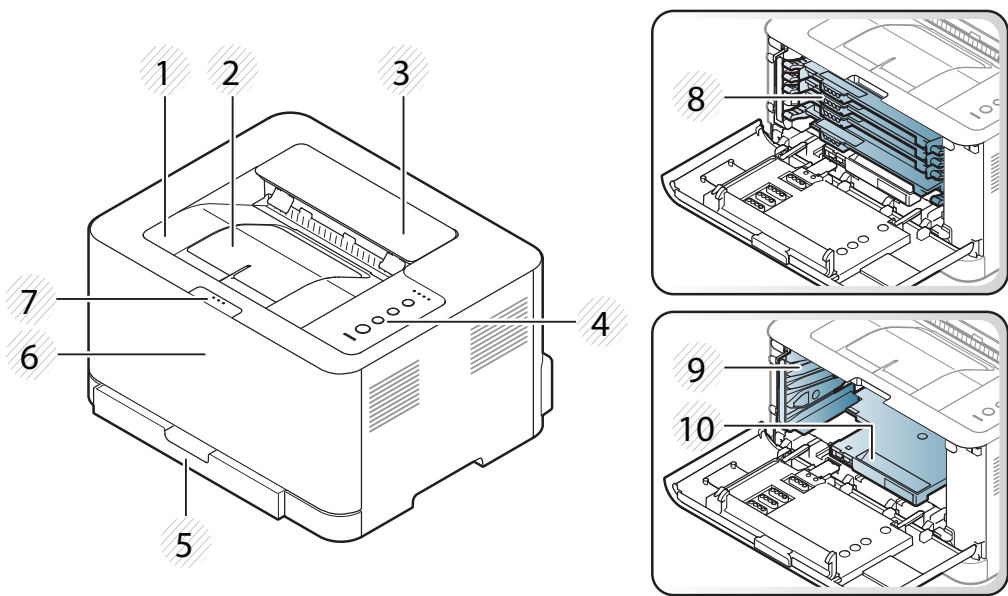
a. The software CD contains the printer drivers and software applications.
b. Miscellaneous accessories included with your machine may vary by country of purchase and specific model.

Machine overview

Front view



- This illustration may differ from your machine depending on its model.
- Some features and optional goods may not be available depending on model or country (see "Features by models" on page 6).



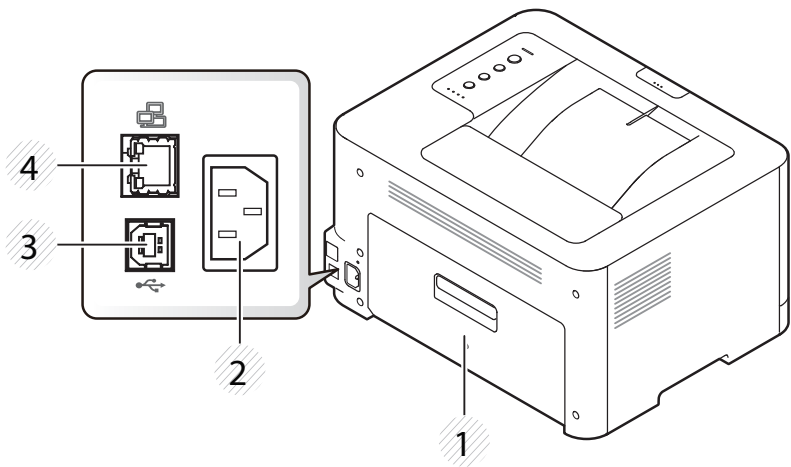
1	Output tray	2	Output support	3	Top cover	4	Control Panel	5	Tray
6	Front cover	7	Front cover release button	8	Toner cartridges	9	Waster toner container	10	Imaging unit

Machine overview

Rear view




- This illustration may differ from your machine depending on its model.
- Some features and optional goods may not be available depending on model or country (see "Features by models" on page 6).

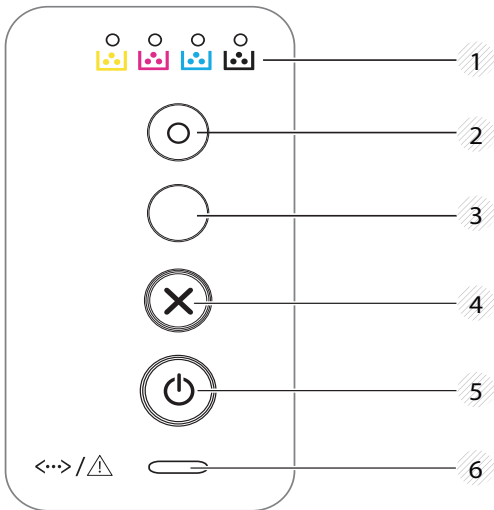



1	Rear cover	2	Power receptacle	3	USB port	4	Network port ^a
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a. CLP-36xW only.

Control panel overview

 This control panel may differ from your machine depending on its model. There are various types of control panels.



1	Toner LED	Shows the status of the toner (see "Status LED" on page 62).
2	Eco	Turn into eco mode to reduce toner consumption and paper usage when pc-printing only (see "Eco printing" on page 36).
3	 (WPS)^a	Configures the wireless network connection easily without a computer (see "Wireless network setup" on page 106). <ul style="list-style-type: none">• Manual print<ul style="list-style-type: none">- Press this button each time you load a sheet of paper in the tray if you have selected Manual Feeder for Source in your printer driver.

3






(Print screen)^b

- **Prints the screen**
 - Press this button and the green LED will start blinking. If you want to print only the active screen, release the button when the green LED stops blinking. If you want to print the whole screen, release the button while it's blinking.
- **Manual print**
 - Press this button each time you load a sheet of paper in the tray if you have selected **Manual Feeder** for **Source** in your printer driver.



- **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 Easy Printer Manager program is installed if you are a macintosh OS user, you need to enable **Screen Print Settings** from the Easy Printer Manager to use the Print Screen feature.

Control panel overview

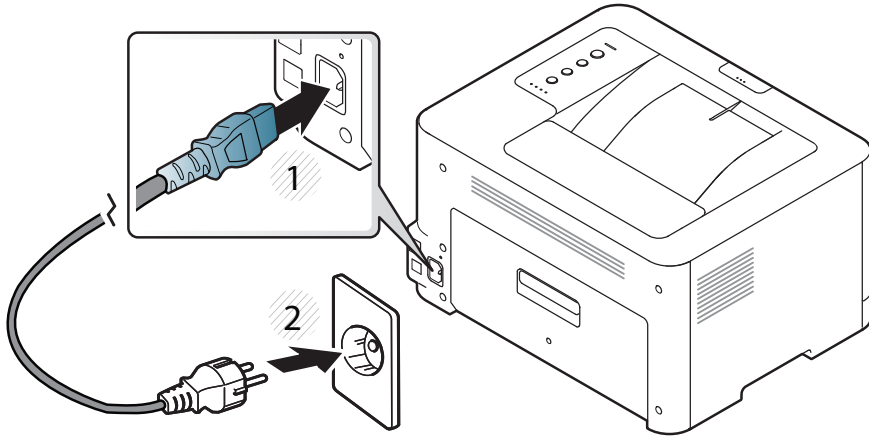
4	 (Cancel)	<p>You can stop an operation at any time. You also can do the following functions.</p> <ul style="list-style-type: none">• Configuration sheet<ul style="list-style-type: none">- Press and hold this button for about 2 seconds until the green LED blinks slowly, and release.• Prints event log report / usage counter<ul style="list-style-type: none">- Press and hold this button for about 4 seconds until the green LED blinks quickly, and release.• Prints supplies info report<ul style="list-style-type: none">- Press and hold this button for about 6 seconds until the green LED on, and release.
5	 (Power/ Wakeup)	<p>You can turn the power off or wake the machine up from the sleep mode with this button.</p>
6	 (Status LED)	<p>Shows the status of your machine (see "Status LED" on page 62).</p>

a. CLP-36xW only

b. CLP-36x only

Turning on the machine

- 1 Connect the machine to the electricity supply first.



- 2 press  (**Power/Wakeup**) on the control panel.

 If you want to turn the power off, press  (**Power/Wakeup**) on the control panel.

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 Advanced Guide).



- If you are a Macintosh or Linux operating systems user, refer to the "Installation for Macintosh" on page 88 or "Installation for Linux" on page 90.
- The installation window in this User's Guide may differ depending on the machine and interface in use.
- Only use a USB cable no longer than 3 meters (118 inches).

Windows

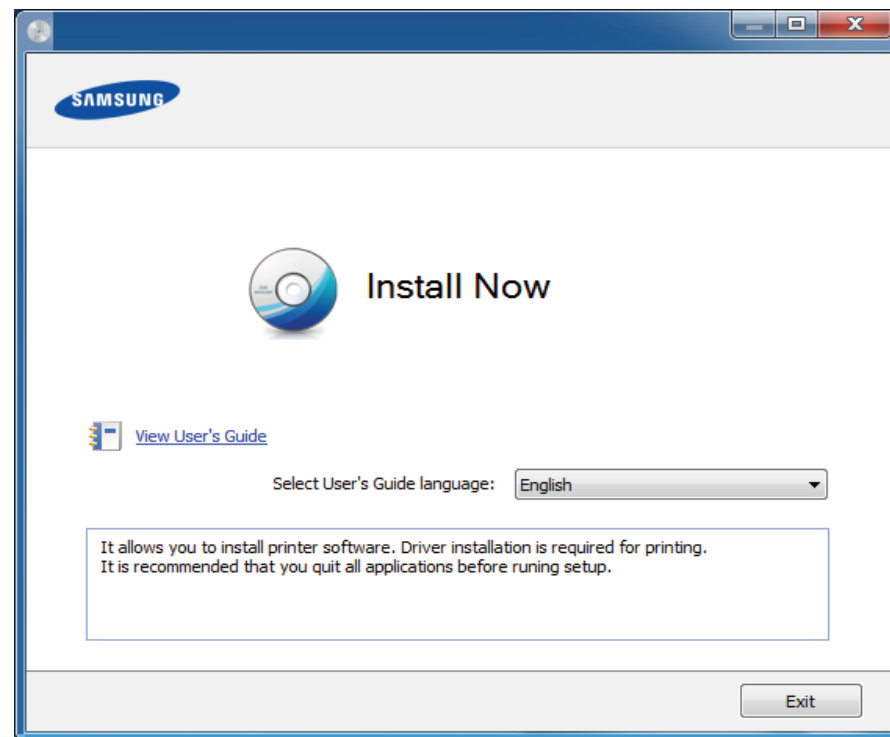
- 1 Make sure that the machine is connected to your computer and powered on.



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.
The software CD should automatically run and an installation window will appear.

- 3 Select **Install Now**.



- 4 Follow the instructions in the installation window.



You can select the software applications in the **Select Software to Install** 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 22).



2. Learning the Basic Usage

After installation is complete, you may want to set the machine's default settings. Refer to the next section if you would like to set or change values. This chapter provides information about the overall menu structure and the basic setup options.

- **Printing a demo page**
- **Media and tray**
- **Basic printing**

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Printing a demo page

Print a demo page to make sure that the machine is operating correctly (Windows only).

To print a demo page:

- Open the **Printing Preferences** (see "Opening printing preferences" on page 34) > **Samsung** tab > **Demo page**.

Media and tray

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



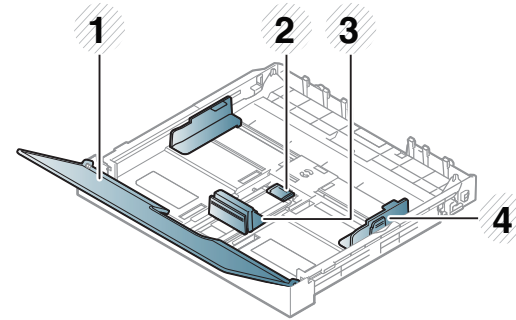
- Using print media that does not meet these specifications may cause problems or require repairs. Such repairs are not covered by Samsung's warranty or service agreements.
- Make sure not to use the inkjet photo paper with this machine. It could cause damage to the machine.
- Using inflammable print media can cause a fire.
- Use designated print media (see "Print media specifications" on page 67).



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 guide.



- 1 Paper cover
- 2 Guide lock
- 3 Paper length guide
- 4 Paper extend lever

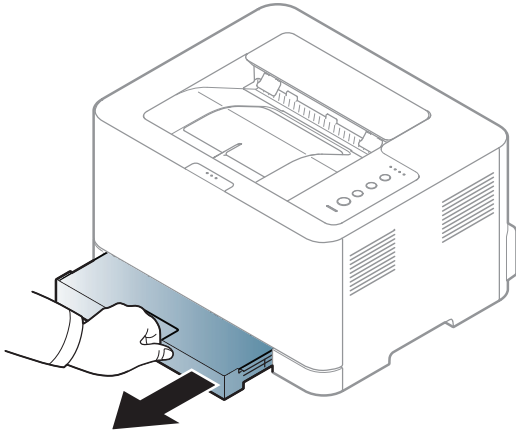


If you do not adjust the guide, it may cause paper registration, image skew, or jamming of the paper.

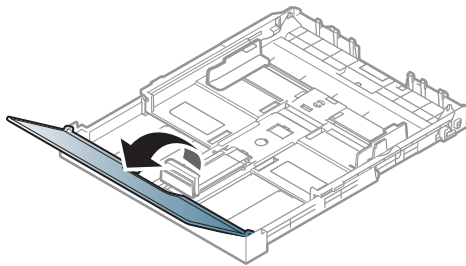
Media and tray

Loading paper in the tray

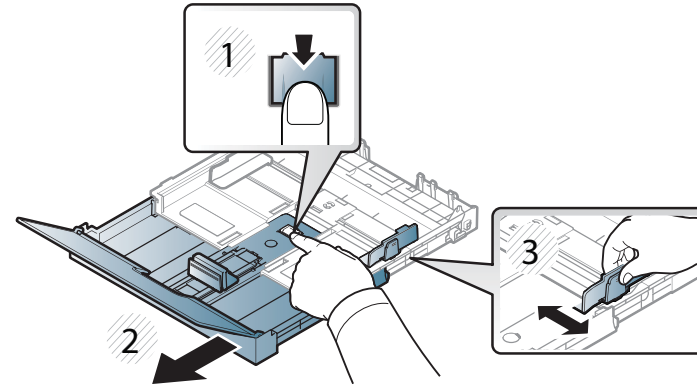
- 1 Pull out the paper tray (see "Tray overview" on page 26).



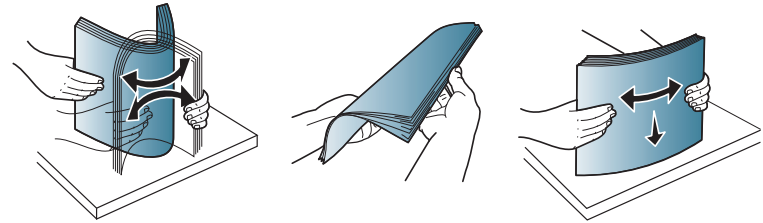
- 2 Open the paper cover.



- 3 Press and unlatch the guide lock in the tray, pull the tray out manually. Then adjust the paper length guide and paper width guide.

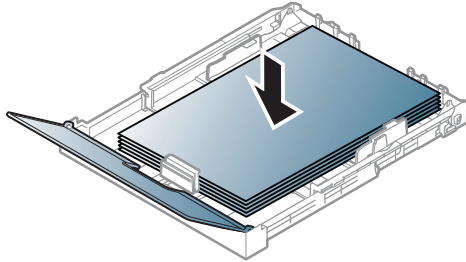


- 4 Flex or fan the edge of the paper stack to separate the pages before loading papers.

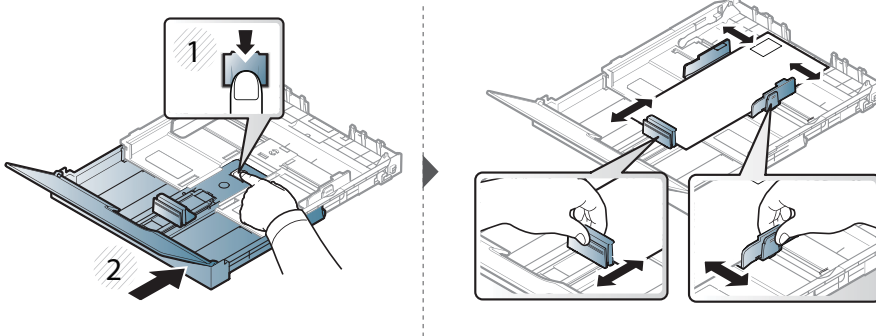


Media and tray

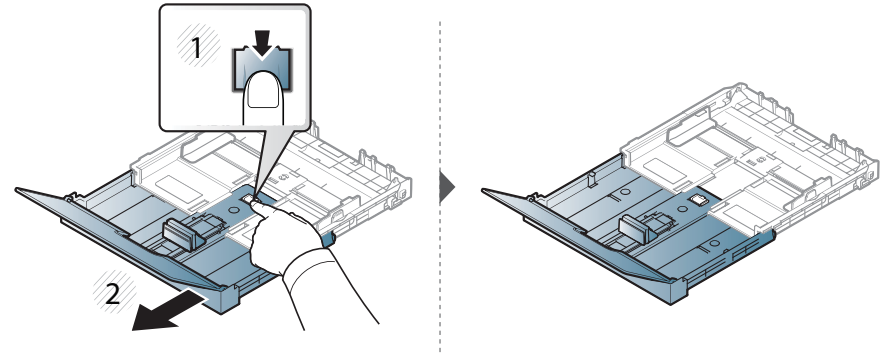
- 5 Place the paper with the side you want to print facing up.



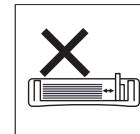
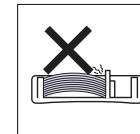
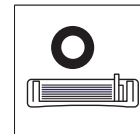
For paper smaller than Letter-sized, press and unlatch the guide lock in the tray, push the tray in manually. Then adjust the paper length guide and paper width guide.



For paper longer than Legal-sized, press and unlatch the guide lock in the tray, pull the tray out manually. Then adjust the paper length guide and paper width guide.

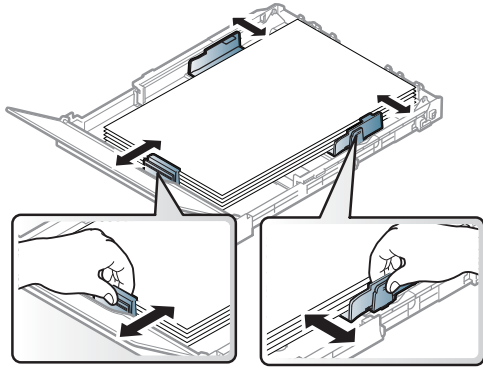


- Do not push the paper width guide too far causing the media to warp.
- Do not use a paper with a leading-edge curl, it may cause a paper jam or the paper can be wrinkled.
- If you do not adjust the paper width guide, it may cause paper jams.

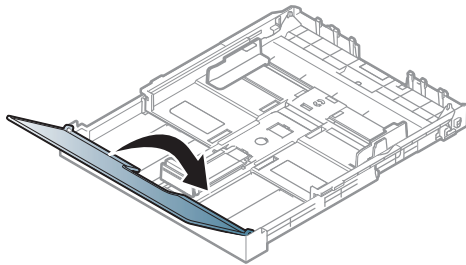


Media and tray

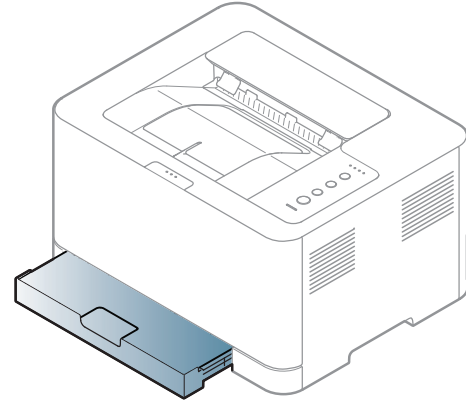
- 6** Squeeze the paper width guide and slide it to the edge of the paper stack without causing it to bend.



- 7** Close the paper cover.



- 8** Insert the paper tray.



- 9** When you print a document, set the paper type and size for the tray (see "Setting the paper size and type" on page 32).



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 34).
- 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**) in paper source, then press **OK**.
- e** Start printing in application.

Media and tray

Printing on special media

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

The media types are shown in the **Printing Preferences**. To get the highest printing quality, select the proper media type from the **Printing Preferences** window > **Paper** tab > **Paper Type** (see "Opening printing preferences" on page 34).

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 67).

To see for paper weights for each sheet, refer to "Print media specifications" on page 67.

Types	Tray ^a
Plain	●
Thick	●
Thin	●
Bond	●
Color	●

Types	Tray ^a
CardStock	●
Labels	●
Preprinted	●
Cotton	●
Recycled	●
Archive	●
Glossy Photo	●
Matte Photo	●

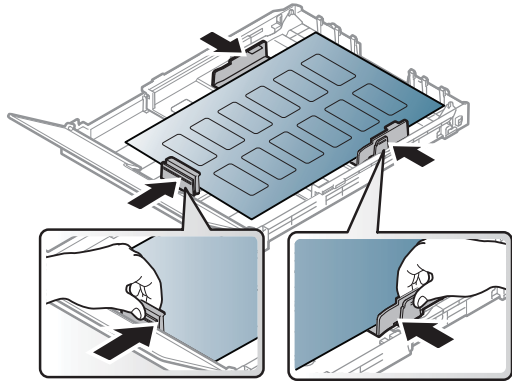
a. The paper types available manual feeding in tray.

(●: Included, Blank: Not available)

Media and tray

Labels

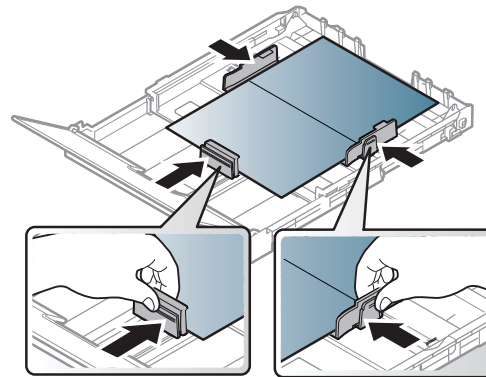
To avoid damaging the machine, use only labels designed for use in laser printers.



- 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 5 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

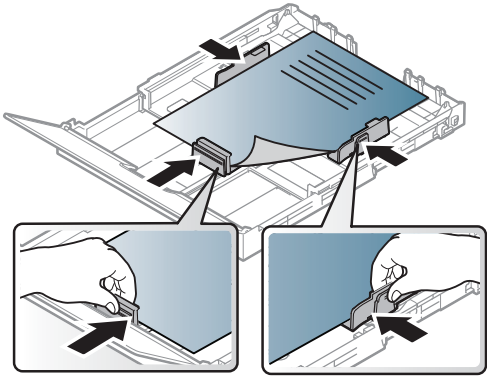


- In the software application, set margins at least 6.4 mm (0.25 inches) away from the edges of the material.

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.

Open the **Printing Preferences** (see "Opening printing preferences" on page 34) and set the paper size and type in the **Paper** tab.



If you want to use special-sized paper such as billing paper, select **Custom** in the **Paper** tab in the **Printing Preferences** (see "Opening printing preferences" on page 34).

Basic printing



For special printing features, refer to the Advanced Guide (see "Using advanced print features" on page 136).

Printing

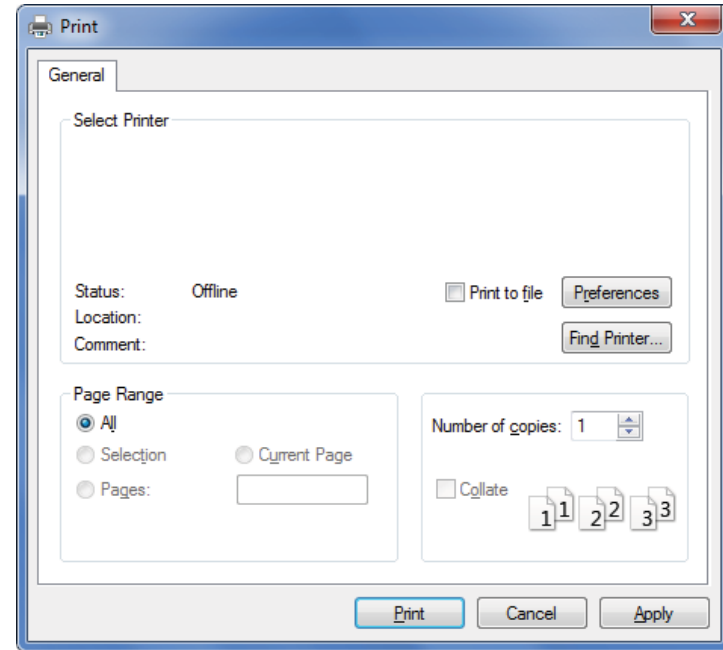


If you are a Macintosh or Linux user, refer to the "Macintosh printing" on page 143 or "Linux printing" on page 145.

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 34).

- 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:

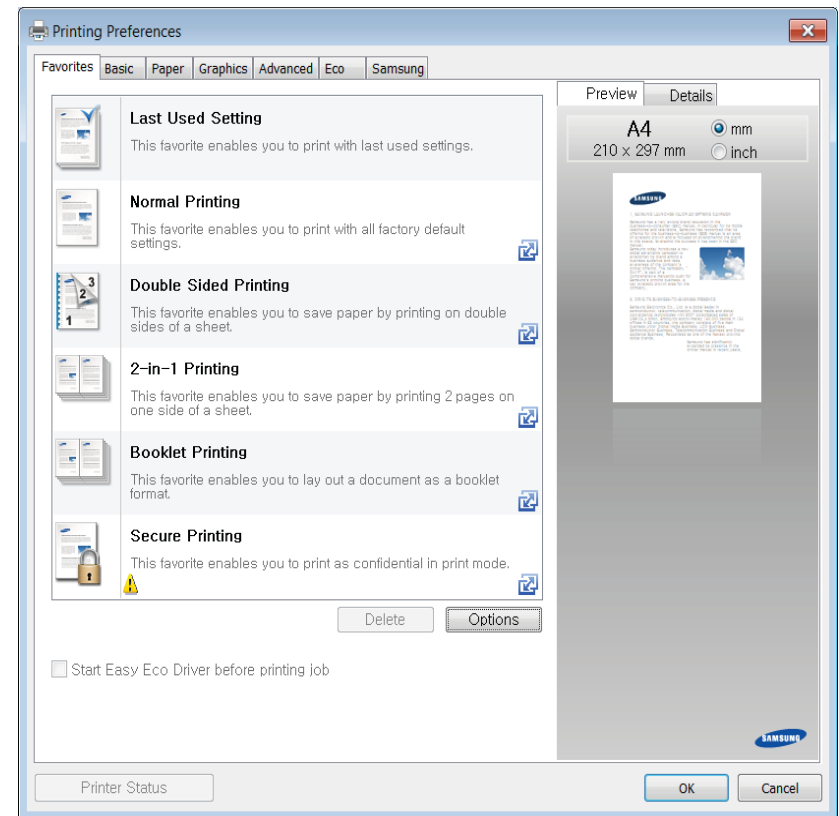
- You can access this window by simply double-clicking the machine icon () in the Windows task bar.
- You can also cancel the current job by pressing  (**Cancel**) on the control panel.

Opening printing preferences



- The **Printing Preferences** window that appears in this user's guide may differ depending on the machine in use. However, the composition of the **Printing Preferences** window is similar.
- 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.
- 3 Select your machine from the **Select Printer**.
- 4 Click **Properties** or **Preferences**.



Basic printing



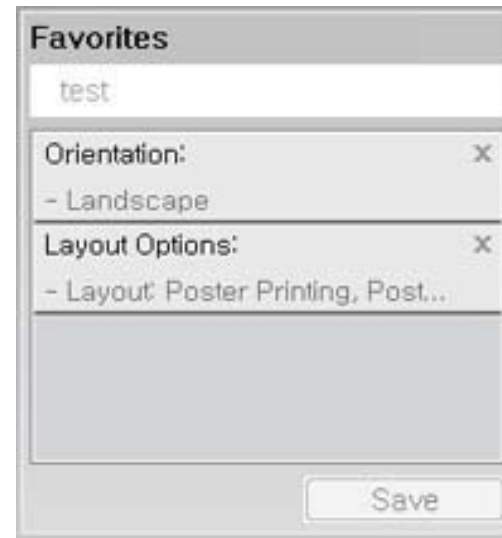
- You can apply **Eco** features to save paper and toner before printing (see "Easy Eco Driver" on page 151).
- You can check the machine's current status using the **Printer Status** button (see "Using Samsung Printer Status" on page 158).

Using a favorite setting

The **Favorites** 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 **Favorites** item, follow these steps:

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



- 3 Click **Save**.
- 4 Enter name and description, and then select the desired icon.
- 5 Click **OK**. When you save **Favorites**, all current driver settings are saved.



To use a saved setting, select it in the **Favorites** tab. The machine is now set to print according to the settings you have selected.

To delete saved settings, select it in the **Favorites** tab and click **Delete**.

Basic printing

Using help

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

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.

Setting Eco mode on the control panel

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**.




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

- For Windows and Macintosh users, you set from **Samsung Easy Printer Manager** >  **(Switch to advanced mode)** > **Device Settings**, see "Device Settings" on page 156.



The settings set from the machine's driver override the settings on the control panel.

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.

Another way for Eco printing is to use the Easy Eco Driver application. See "Easy Eco Driver" on page 151.

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.

Basic printing



Password button: You can set from SyncThru™ Web Service (**Settings** tab > **Machine Settings** > **System** > **Eco** > **Settings**) or Samsung Easy Printer Manager (**Device Settings** > **Eco**), the password button is activated. To change the print settings, click on this button, enter the password or need to contact the administrator.

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.

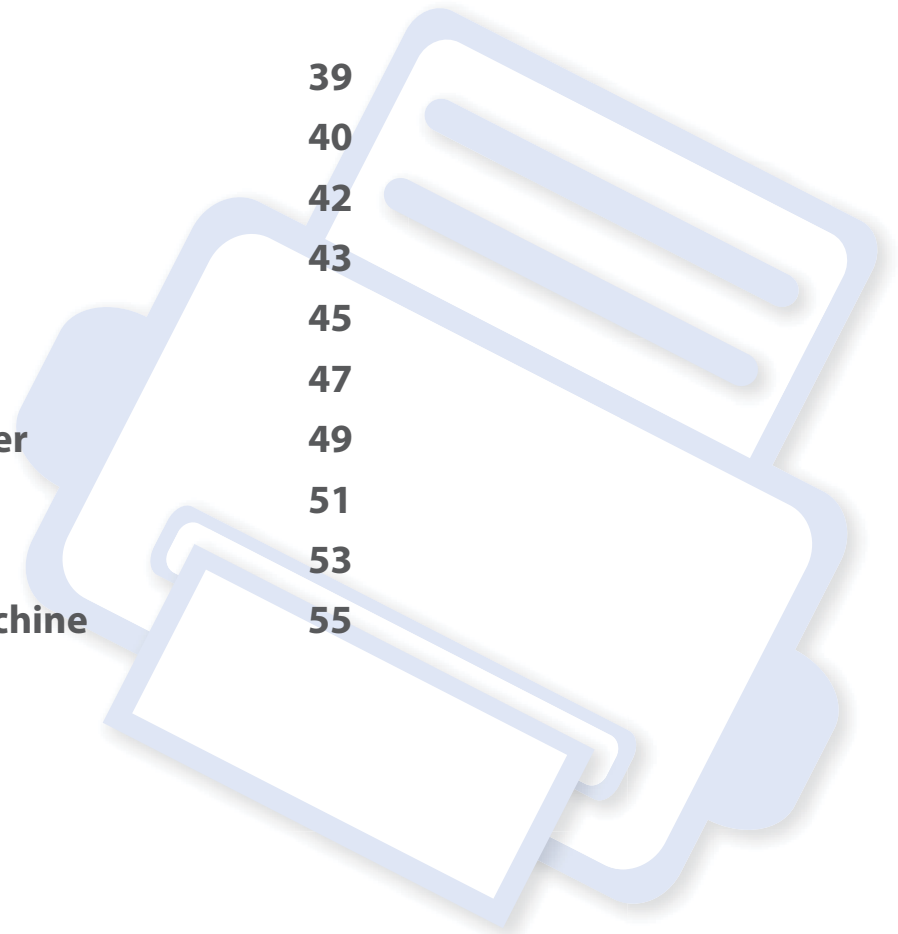
- The results are calculated on the basis that the total number of printed paper is one hundred without a blank page when the Eco mode is disabled.
- Refers to the calculation coefficient about CO₂, energy, and paper from **IEA**, the index of Ministry of Internal Affairs and Communication of Japan and 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.



3. Maintenance

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

- **Ordering supplies and accessories** 39
- **Available supplies** 40
- **Available maintenance parts** 42
- **Storing the toner cartridge** 43
- **Redistributing toner** 45
- **Replacing the toner cartridge** 47
- **Replacing the waste toner container** 49
- **Replacing the imaging unit** 51
- **Cleaning the machine** 53
- **Tips for moving & storing your machine** 55



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 following types of supplies for your machine:

Type	Average yield ^a	Part name
Toner cartridge	<ul style="list-style-type: none">Average continuous black cartridge yield: Approx. 1,500 standard pages (Black)Average continuous color cartridge yield: Approx. 1,000 standard pages (Yellow/Magenta/Cyan)	<ul style="list-style-type: none">K406 (CLT-K406S): BlackC406 (CLT-C406S): CyanM406 (CLT-M406S): MagentaY406 (CLT-Y406S): Yellow
Imaging unit	Approx. 16,000 images ^b	CLT-R406
Waste toner container	Approx. 7,000 images ^b	CLT-W406

a. Declared yield value in accordance with ISO/IEC 19798. The number of pages may be affected by operating environment, printing interval, graphics, media type and media size.

b. Image counts based on one color on each page. If you print documents in full color (Cyan, Magenta, Yellow, Black), the life of this item will be reduced by 25%.



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.

Available supplies



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
Fuser unit	Approx. 20,000 pages for black and white mode or 5,000 pages for color mode
Transfer roller	Approx. 20,000 pages
Feed roller	Approx. 20,000 pages
Pickup roller	Approx. 20,000 pages
Intermediate Transfer Belt (ITB)	Approx. 20,000 pages for black and white mode or 5,000 pages for color mode

a. It will be affected by the operating system used, computing performance, application software, connecting method, media type, media size and job complexity.

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% and 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.

Storing the toner cartridge

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.

Estimated cartridge life

Estimated cartridge life the life of the toner cartridge (or imaging unit) 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:

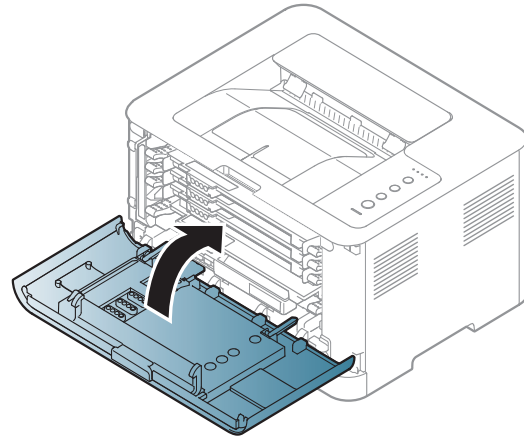
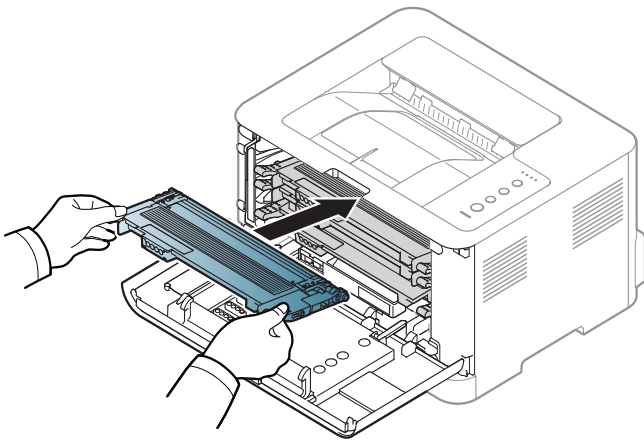
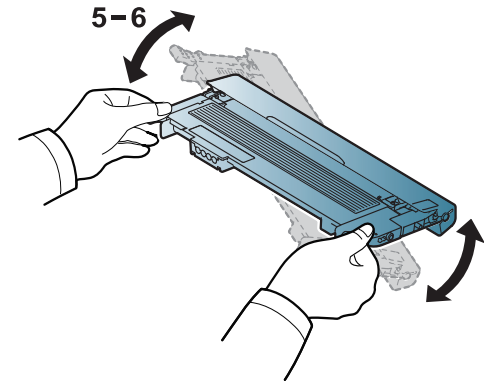
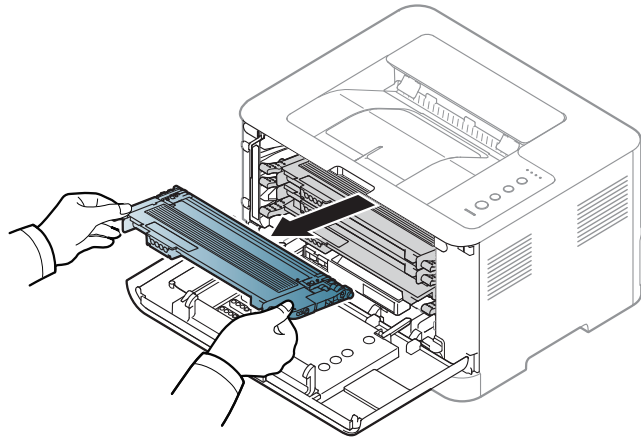
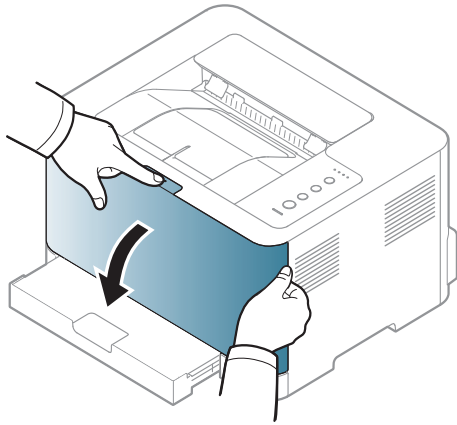
- White streaks or light printing occurs and/or density variation side to side.
- The **Toner** LED blinks orange.

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.



- Before opening the top cover, close the output support first.
- 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.
- Printing even after the toner empty status can cause serious damage to your machine.

Redistributing toner



Replacing the toner cartridge



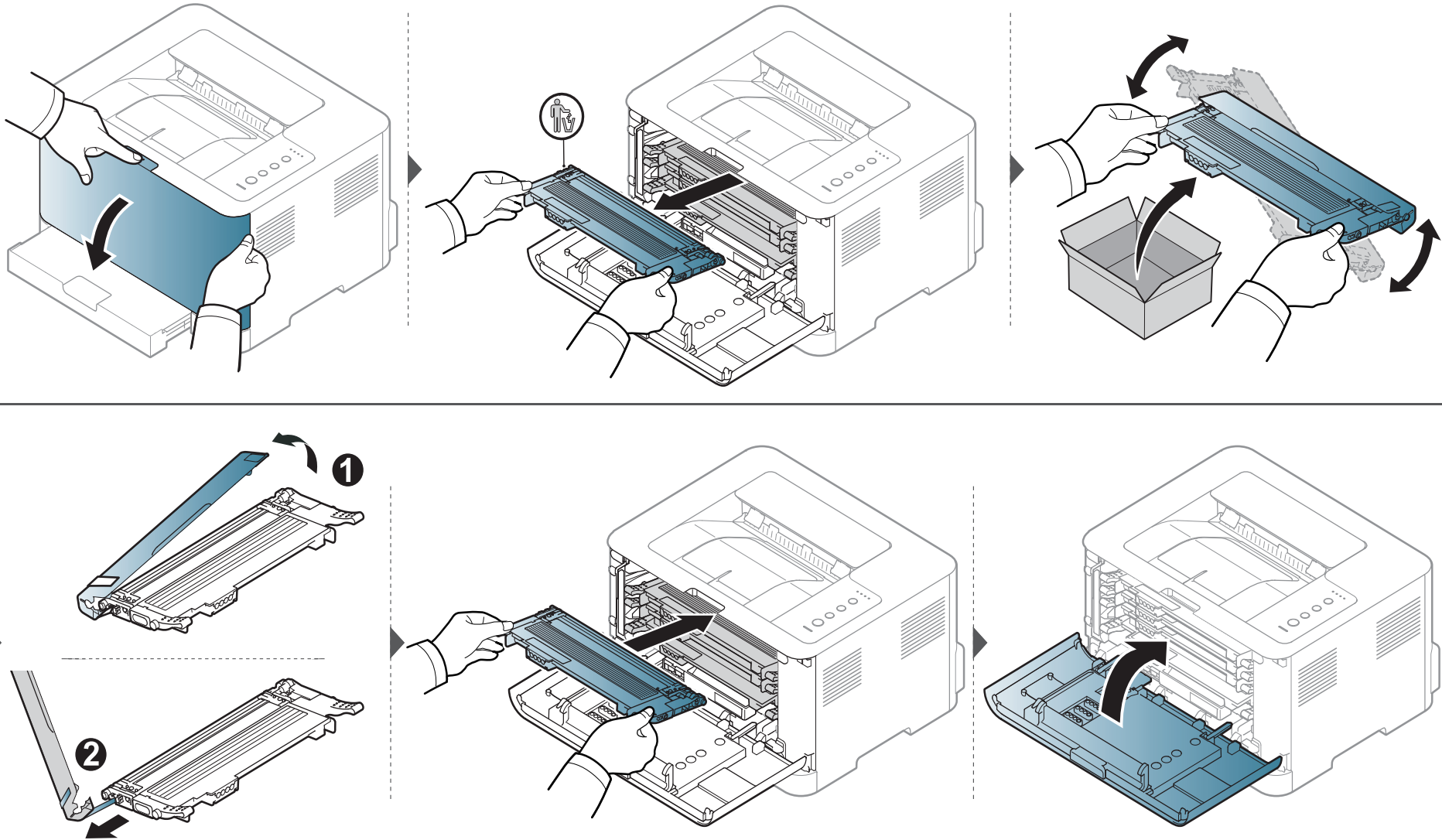
Click this link to open an animation about replacing a toner cartridge.



- Before opening the top cover, close the output support first.
- 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.
- Shake the toner cartridge thoroughly, it will increase the initial print quality.
- Do not touch the green underside of the toner cartridge. Use the handle on the cartridge to avoid touching this area.
- Printing even after the toner empty status can cause serious damage to your machine.

Replacing the toner cartridge

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



Replacing the waste toner container

When the life span of the waste toner container has expired, the Smart Panel program window appears on the computer, indicating the waste toner container needs to be placed. Otherwise your printer stops printing.



- Toner particles can be released inside the machine but it does not mean the machine is damaged. Contact a service representative when print quality problems occur.
- When you pull out the waste toner container out of the machine, move the container carefully not to drop it from your hands.
- Make sure that you lay the waste toner container on a flat surface so that the toner does not spill.



Do not tilt or turn over the container.

Replacing the waste toner container

The order information is provided for optional accessories (see "Available supplies" on page 40).

