User's Guide

Samsung Printer *Xpress*

M301x series

BASIC

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

ADVANCED

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

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

BASIC

1. Introduction

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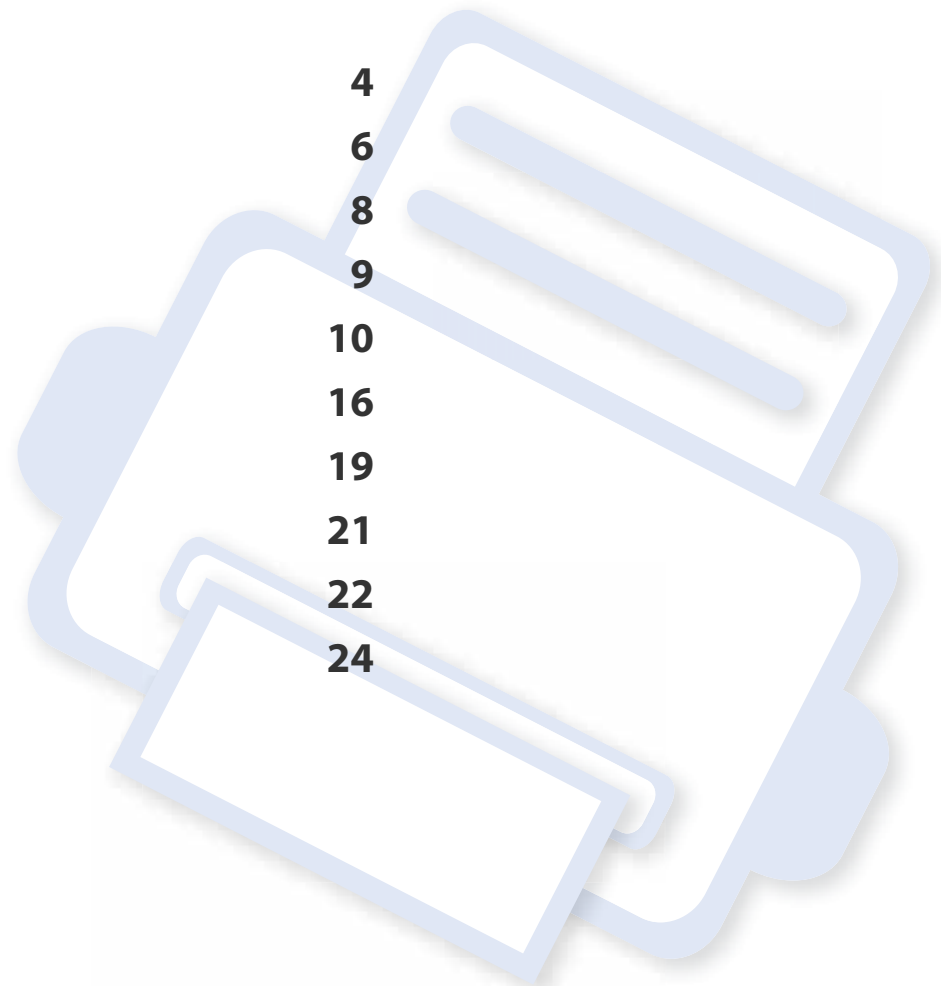
Key benefits

Environmentally friendly

- To save toner and paper, this machine supports the Eco feature.
- To save paper, you can print multiple pages on a single sheet of paper (see "Using advanced print features" on page 160).
- To save paper, you can print on both sides of the paper (double-sided printing) (see "Using advanced print features" on page 160).
- To save electricity, this machine automatically conserves electricity by substantially reducing power consumption when not in use.
- We recommend using recycled paper for saving energy.

Print with excellent quality and speed

- You can print with a resolution of up to 4,800 x 600 dpi effective (600 x 600 x 3 bit) output.
- Fast, on-demand printing.
  - For single-side printing, up to 28 ppm (A4) or up to 30 ppm (Letter).

Convenience

- Simply touch your cell phone on the NFC tag on your printer and get the print job done (see "Using the NFC feature" on page 145).
- You can print on the go from your smartphone or computer using Google Cloud Print™ enabled apps (see "Google Cloud Print™" on page 154).
- 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 179).
- 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 185 or "Using Samsung Printer Status" on page 187).
- 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 180).
- 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 71).

- Print watermark: You can customize your documents with words, such as "**CONFIDENTIAL**" (see "Using advanced print features" on page 160).

- 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 160).

- You can print in various operating systems (see "System requirements" on page 74).

- 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 114.

Features by model

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

Operating System

Operating System	M301x series
Windows	●
Mac	●
Linux	●
Unix	●

(●: Supported, Blank: Not Supported)

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		M301x series
SPL printer driver[a]		●
PCL printer driver		●
PS printer driver		
XPS printer driver[b]		●
Samsung Easy Printer Manager	Device Settings	●
Samsung Printer Status		●
Samsung AnyWeb Print[b]		●
SyncThru™ Web Service		●
SyncThru Admin Web Service		●
Easy Eco Driver		●
Easy Capture Manager		●

Features by model

a. Depending on the operating system you use, the installed printer driver may differ.
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.

(●: Supported, Blank: Not Supported)

(●: Supported, Blank: Not Supported)

Variety feature

Features	M301x 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	●
NFC (Near Field Communication) printing	
Eco printing	●
Wi-Fi Protected Setup™ (WPS)	
Double-sided printing	●
Double-sided printing (Manual)[bc]	●
AirPrint	●
Google Cloud Print™	●

a. Depending on your country, wireless LAN card may not be available. For some countries, only 802.11 b/g can be applied. Contact your local Samsung dealer or the retailer where you bought your machine.
b. Available for Windows OS only.
c. Only tray 1 is supported.

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 39).
- 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.

Where can I purchase option or consumables?

- 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 LED" on page 65).

A paper jam has occurred.

- Open and close the front door.
- Check the instructions on removing jammed paper in this manual and troubleshoot accordingly (see "Clearing paper jams" on page 59).

Printouts are blurry.

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

Where can I download the machine's driver?

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

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.

- Do not discard this manual, and keep it for future reference.

- 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
⚠	Warning	Used to alert users to the possibility of personal injury.
⚠	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

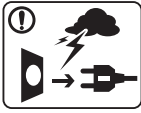|	
🚫	Do not use if the power cord is damaged or if the electrical outlet is not grounded. This could result in electric shock or fire.
🚫	Do not place anything on top of the machine (water, small metal or heavy objects, candles, lit cigarettes, etc.). This could result in electric shock or fire.
⚠️	• 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.
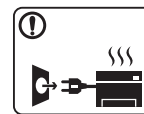
Safety information

⚠ 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 careful 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.
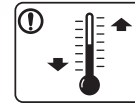
🌡	Do not use the machine when it is below freezing temperature or has recently been moved from a location below freezing temperature. Doing so may damage the machine. Only operate the machine when the internal temperature of the machine is within the operating temperature and humidity specifications. Otherwise, quality problems can occur and cause damage to the machine. (See "General specifications" on page 69).

⚠ Caution

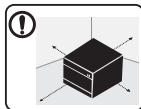|	
👥	Before moving the machine, turn the power off and disconnect all cords. The information below are only suggestions based on the units weight. If you have a medical condition that prevents you from lifting, do not lift the machine. Ask for help, and always use the appropriate amount of people to 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.

Safety information

⚠	Choose a flat surface with enough space for ventilation to place the machine. Also consider the space required to open the cover and trays.
	The place should be well-ventilated and be far from direct light, heat, and humidity.
⚠	When using the machine for a long period of time or printing a large number of pages in a non-ventilated space, it could pollute the air and be harmful to your health. Place the machine in a well-ventilated space or open a window to circulate the air periodically.
!	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.
!	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 consumables or cleaning the inside, do not operate the machine.
	You could get injured.

Safety information

	Keep cleaning consumables 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. |
| | 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 consumables such as toner cartridge or fuser unit.

This could cause an explosion or uncontrollable fire. |
| | When storing consumables such as toner cartridges, keep them away from children.

Toner dust can be dangerous if inhaled or ingested. |
| | Using recycled consumables, such as toner, can cause damage to the machine.

In case of damage due to the use of recycled consumables, a service fee will be charged. |

Safety information

⦸	For consumables that contain toner dust (toner cartridge, waste toner bottle, imaging unit, etc.) follow the instructions below. • When disposing of the consumables, follow the instructions for disposal. Refer to the reseller for disposal instructions. • Do not wash the consumables. • For a waste toner bottle, do not reuse it after emptying the bottle. If you do not follow the instructions above, it may cause machine malfunction and environmental pollution. The warranty does not cover damages caused by a user's carelessness.
ⓘ	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

Components

The actual component may differ from the illustration below. Some components may change depending on the circumstances.
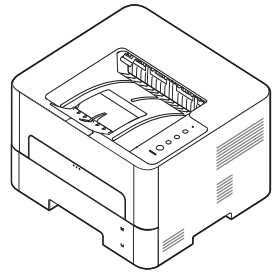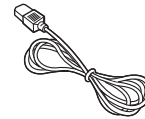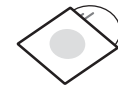
Machine	Power cord	Software CD[a]
Quick installation guide	Misc. accessories[b]	
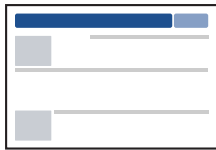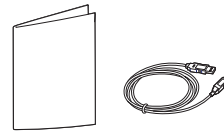
a. The software CD contains the printer drivers, user's guide, and software applications.
b. Miscellaneous accessories included with your machine may vary by country of purchase and specific model.

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.
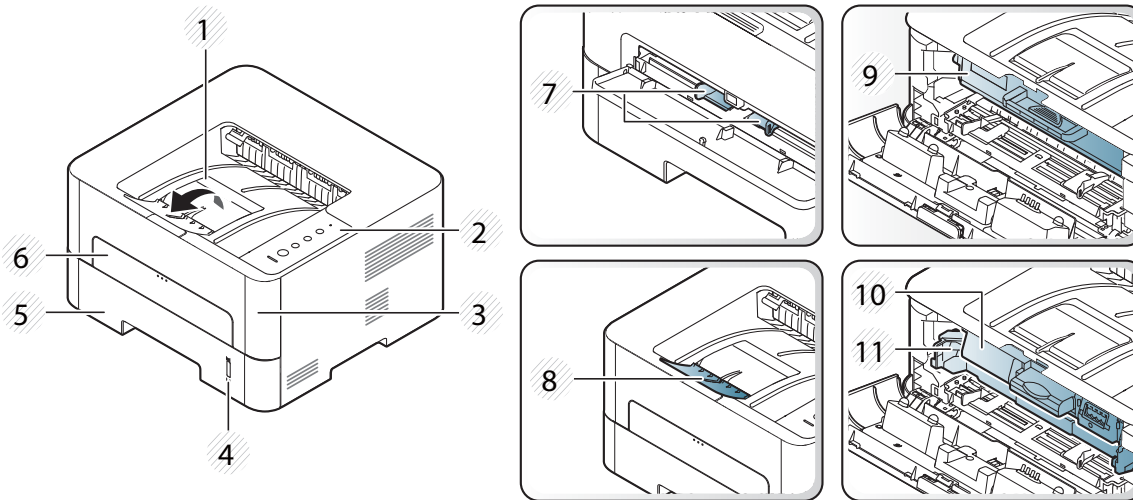
1	Output tray	7	Paper width guides on a manual feeder
2	Control panel	8	Output support
3	Front cover	9	Toner cartridge
4	Paper level indicator	10	Toner cartridge
5	Tray 1	11	Imaging unit
6	Manual feeder	12	NFC (Near Field Communication) tag

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.

1	Network port[a]
2	USB port
3	Power-switch[b]
4	Power receptacle
5	Rear cover

a. Network and wireless models only (see "Features by model" on page 6).
b. Only if the machine has a power switch.

Control panel overview

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

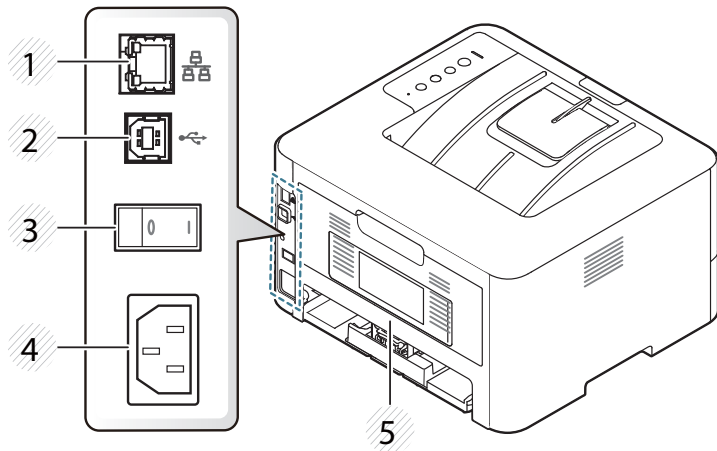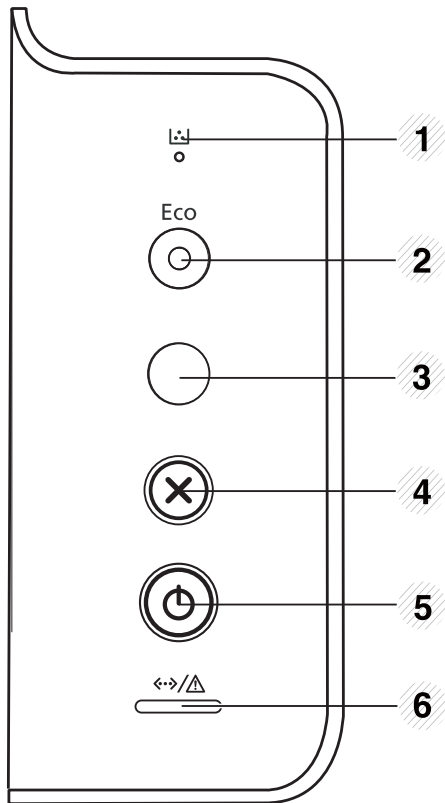|		
1	Toner	Shows the status of the toner (see "Toner LED/ WPS LED/ Power LED/ Eco LED" on page 67).
2	Eco	Enters Eco mode to reduce toner consumption and paper usage (see "Eco options" on page 42).

3		Info sheet	Prints a demo page and network configuration report (see "Printing a demo page" on page 26).
		WPS	Configures the wireless network connection easily without a computer (see "Wireless network setup" on page 113).
		Print 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.

- **Print Screen** can only be used in the Windows and Mac 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 Mac 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**	Stops an operation at any time and there are more functions. • **Cancels the current job.** • **Prints demo page:** Press and hold this button for about 2 seconds until the status LED blinks slowly, and release. • **Supplies Info & Usage Counter:** Press and hold this button for about 6 seconds and release. • **Prints configuration reports/network configuration reports[a]:** Press and hold this button for about 4 seconds until the status LED blinks fast, and release.
5	⏻	**Power**	You can turn the power on/off or wake the machine up from the power save mode with this button.
6	«•»/⚠	**Status LED**	Indicates the status of your machine (see "Understanding the LED" on page 65).

a. Network and wireless models only (see "Features by model" on page 6).

Turning on the machine

1 Connect the machine to the electricity supply first.

Press the power key or turn the switch on if the machine has a power switch.
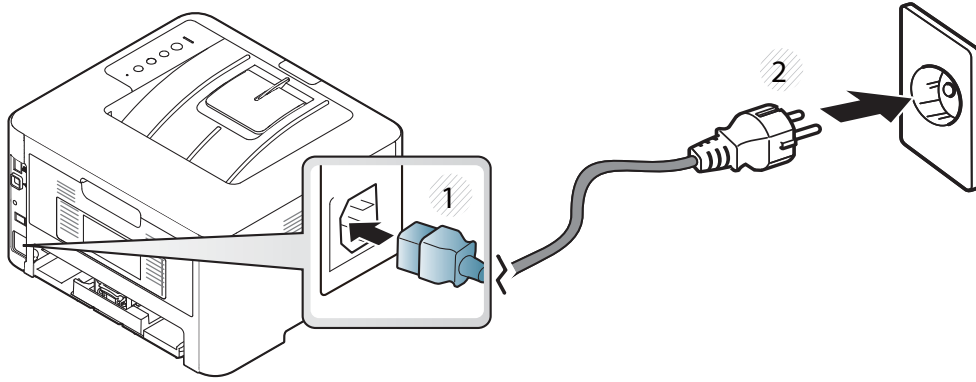
2 Press ⏻ (**Power**) on the control panel.

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 "Installing driver over the network" on page 106).

> • If you are a Mac, Linux, or Unix OS user, refer to the "Software Installation" on page 94.
> • 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.

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**.

• For Windows 8,

If the installation window does not appear, from **Charms**, select **Search** > **Apps** and search for **Run**. Type in X:\Setup.exe, replacing "X" with the letter that represents your CD-ROM drive and click **OK**.

If "**Tap to choose what happens with this disc**." pop-up window appears, click the window and select **Run Setup.exe**.

3 Review and accept the installation agreements in the installation window. Then, click **Next**.

4 Select **USB connection** on the **Printer Connection Type** screen. Then, click **Next**.

5 Follow the instructions in the installation window.

Installing the driver locally

From the Windows 8 Start Screen

> • The V4 driver is automatically downloaded from the Windows Update if your computer is connected to the Internet. If not, you can manually download the V4 driver from Samsung website, www.samsung.com > find your product > Support or downloads.
>
> • You can download Samsung Printer Experience app from the **Windows Store**. You need have a Microsoft account to use the Windows **Store**.
> 1 From **Charms**, select **Search**.
> 2 Click **Store**.
> 3 Search and click **Samsung Printer Experience**.
> 4 Click **Install**.
>
> • If you install the driver using the supplied software CD, V4 driver is not installed. If you want to use the V4 driver in the **Desktop** screen, you can download from the Samsung website, www.samsung.com >find your product > Support or downloads.
>
> • If you want to install Samsung's printer management tools, you need to install them using the supplied software CD.
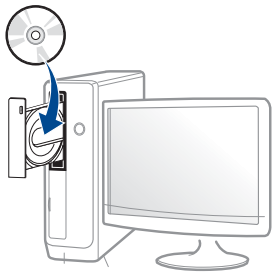
1 Make sure that your computer is connected to the Internet and powered on.

2 Make sure that the machine is powered on.

3 Connect the computer and the machine with a USB cable.

The driver is automatically installed from the **Windows Update**.

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** > **Uninstall Samsung Printer Software**.

- For Windows 8,

  1 From Charms, select **Search** > **Apps**.

  2 Search and click **Control Panel**.

  3 Click **Programs and Features**.

  4 Right-click the driver you want to uninstall and select **Uninstall**.

  5 Follow the instructions in the window.

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).

From the Windows 8 Start Screen

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

2 Click on the **Uninstall Samsung Printer Software** tile in the **Start** screen.

3 Follow the instructions in the window.

> - If you cannot find a Samsung Printer Software tile, uninstall from the desktop screen mode.
> - If you want to uninstall Samsung's printer management tools, from the **Start** screen, right-click the app > **Uninstall** > right-click the program you want to delete > **Uninstall** and follow the instruction in the window.
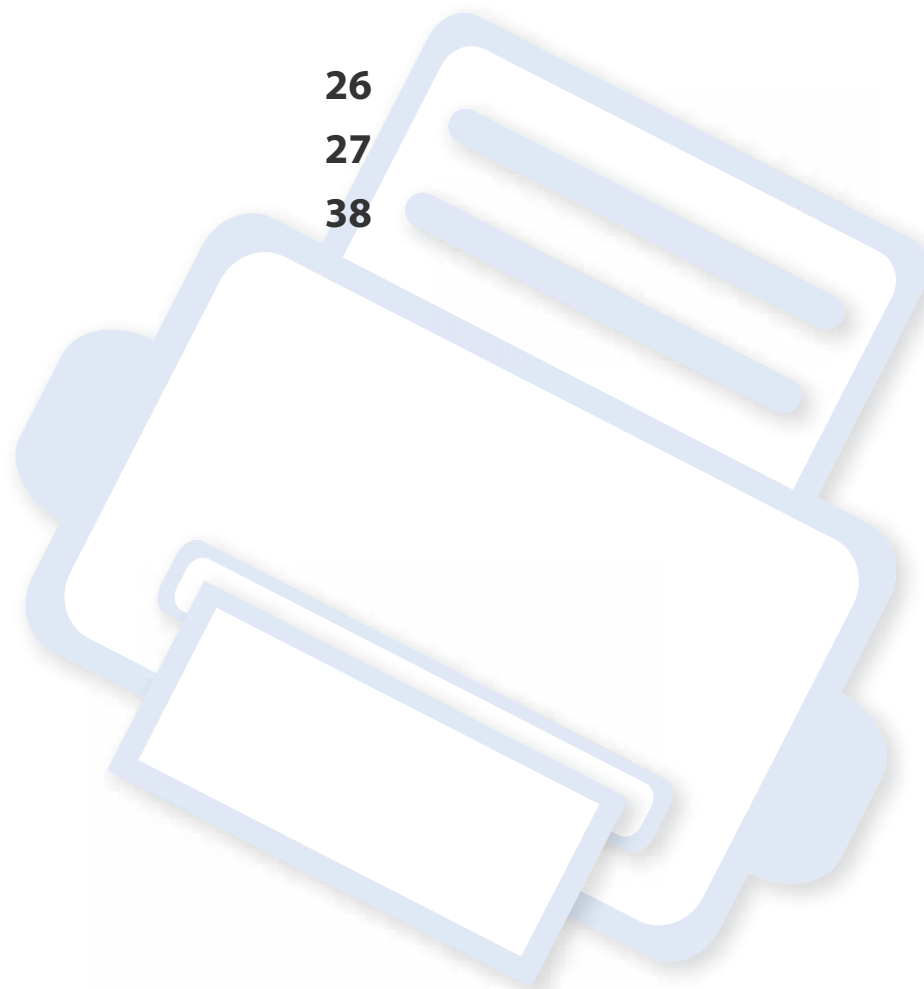
2. Basic Setup

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.
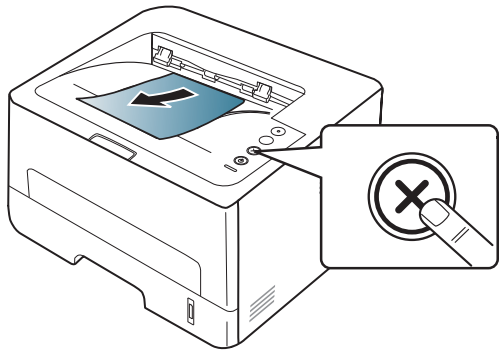
Printing a demo page

Print a demo page to make sure that the machine is operating correctly.

To print a demo page:

In ready mode, press and hold ⊗(**Cancel**) button for about 2 seconds until the status LED blinks, and release.

 For a model with an **Info** sheet (🖨) button, press the button to print a 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 71).

> ⚠️
> 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.
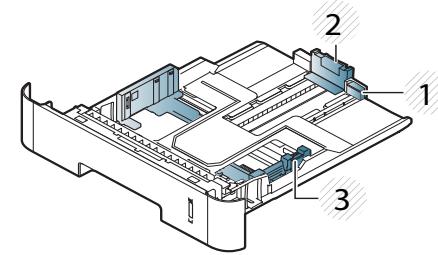
1 Tray extension guide
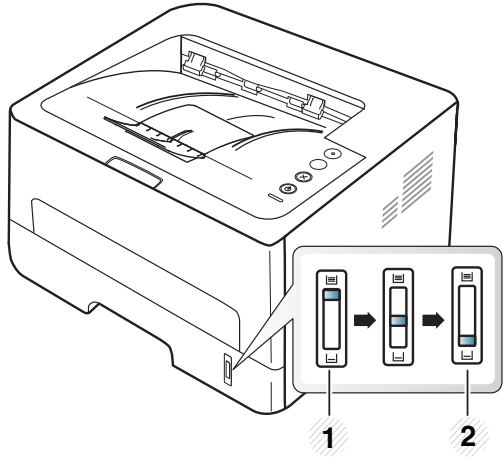2 Paper length guide
3 Paper width guide

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

Media and tray

 Paper quantity indicator shows the amount of paper in the tray.

1 Full
2 Empty

Paper type available for duplex printing

 Duplex printing might not be available for some models (see "Features by model" on page 6).

Depending on the power voltage your machine uses, available paper types for duplex printing differs. Refer to the below table.

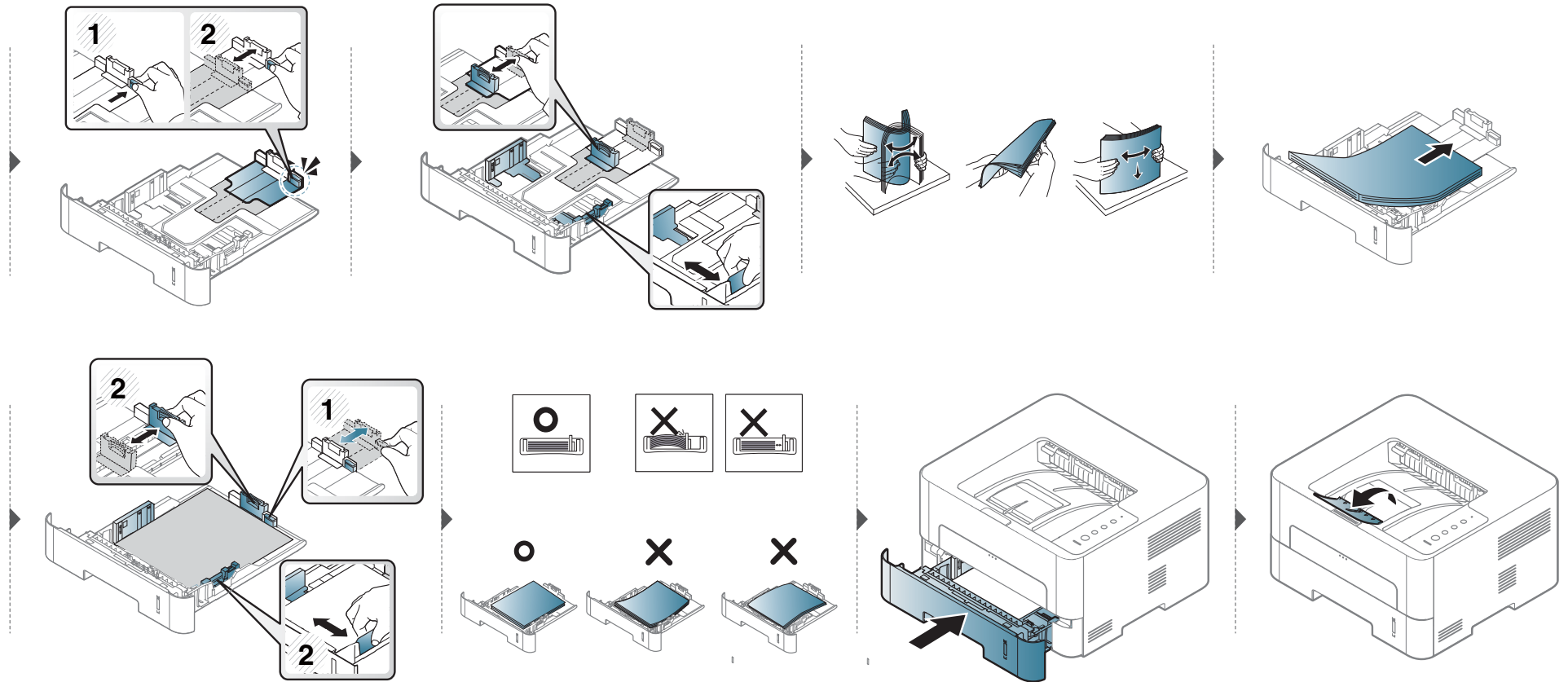| Power voltage	Available paper
110V	Letter, Legal, US Folio, Oficio
220V	A4

Media and tray

Loading paper in the tray

When printing using the tray, do not load paper on the manual feeder, it may cause a paper jam.

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.

> **Tips on using the manual feeder**
>
> • Load only one type, size and weight of print media at time in the manual feeder.
>
> • If you select **Manual Feeder** for the paper source in your software application, you need to press Print screen or Demo page, or WPS button each time you print a page and load only one type, size and weight of print media at a time on the manual tray.
>
> • 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 71).
>
> • 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 32).
>
> • When papers overlap when printing using the manual feeder, open tray 1 and remove the overlapping papers then try printing again.
>
> • When paper does not feed well while printing, push the paper in manually until it starts feeding automatically.
>
> • When the machine is in a power save mode, the machine does not feed paper from the manual feeder. Wake up the machine by pressing the power button before using the manual feeder.