



LT5C Label Printer Installation Guide



v1.0

Manual Configuration

- Installation Guide (This Manual)

This manual describes how to assemble and install the device.

- Residual Risk

This manual describes the map of residual risks that require protective measures by machine installers and users.

- Setup Guide

This manual describes how to connect the printer to a computer and set it up following installation.

- User's Guide

This manual describes details about product functions and operations.

- Maintenance Guide

This manual describes how to replace consumables, and how to clean and maintain the product.

- Installers and Manuals

Download the latest installers and manuals from <https://afinialabel.com/LT5Cinfo>

About This Manual

This manual explains how to install the Label Printer (LT5C).

 NOTE

- This manual was created for the people who are installing the product. For information on normal operation, please refer to the User’s Manual.

 WARNING	
	This equipment uses CR2032 lithium batteries. The customer does not need to replace the lithium batteries inside the equipment during the service life of the equipment. However, when disposing of a lithium battery for whatever reason, insulate the positive and negative terminals with non-conductive tape and dispose of it according to the rules and regulations of the local authorities. Mixing batteries with other metallic items could cause them to catch fire or explode. Do not throw them in garbage that will be processed at a refuse processing facility.

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Introduction

About the Map and List of Residual Risks That Require Protective Measures by Machine Users and Machine Installers

Product name: Label Printer (LT5C)

Before starting work, carefully read "Label Printer (LT5C Label Printer) Residual Risk", provided as a separate document with the product, and establish safety measures for the users and installation workers.

Warnings and Precautions

Read the provided manuals for your safety before using the product.

Cautions Related to Safety

 **WARNING** Mishandling due to ignoring this display may cause death or serious injury.

 **CAUTION** Mishandling due to ignoring this display may cause personal injury.

General Cautions

 WARNING		
 Do not touch the safety switch inside this machine. High voltage may occur, resulting in electric shock. Also, a gear may rotate, resulting in injury.	 Do not use a highly combustible spray near this machine. Some parts inside the machine become very hot, possibly resulting in fire.	 If the cover becomes extremely hot, the machine emits smoke or odor, or you hear a strange sound, unplug the power plug from the outlet, and contact your dealer. Fire may result.
 If liquid such as water gets inside the machine, unplug the power plug from the outlet, and contact your dealer. Fire may result.	 If you drop a clip or other foreign objects into the machine, unplug the power plug from the outlet, and take the foreign objects out. Electric shock, fire, or injury may result.	 Do not perform any operation or disassembly other than instructed in manuals. Electric shock, fire, or injury may result.
 There is a risk of explosion if the battery is replaced with the wrong type of battery. The battery in the machine does not need to be replaced. Do not touch the battery.	 If the machine is dropped or the cover is damaged, unplug the power plug from the outlet, and contact your dealer. Electric shock, fire, or injury may result.	 Unplug the power plug regularly, and clean the bases of and in between the plug blades. If the power plug is left plugged into the outlet for an extended period of time, dust adheres on the bases of the plug blades, and a short may occur, possibly resulting in fire.
 Do not connect the power cord, cables, or the ground wire in any way other than instructed in manuals. Fire may result.	 Do not put a cup with liquids such as water on the machine. Doing so may cause electric shock and/or fire leading to personal injuries.	 Do not let pet urine or other liquid get inside this machine, or allow this machine to get wet. Electric shock or fire may result.
 Do not insert any object into a vent hole. Electric shock, fire, or injury may result.	 Do not throw print cartridges or waste toner boxes into a fire. The toner may ignite, resulting in burns.	 Do not vacuum spilled toner with an electric vacuum cleaner. Vacuuming spilled toner with an electric vacuum cleaner may result in ignition due to sparks from electric contacts or other reasons. If toner spills on the floor or other places, wipe the toner gently with a damp rag or other cloth while using care not to scatter the toner.
 When the machine cover is opened, do not touch the fuser unit. Burns may result.	 Operation using an UPS (uninterruptible power supply) or inverter is not guaranteed. Do not use an uninterruptible power supply or inverter. Fire may result.	

 CAUTION	
 Do not go near the paper output part when you turn the power on or when printing is in progress. Injury may result.	 Do not disassemble the print cartridge, or force it open. You may inhale the scattered toner, or the toner may land on your hands or clothes, making them dirty.

About the Product Warranty

Every effort has been made to ensure that the information in this document is complete, accurate, and up-to-date. The manufacturer assumes no responsibility for the results of errors beyond its control. The manufacturer also cannot guarantee that changes in software and equipment made by other manufacturers and referred to in this guide will not affect the applicability of the information in it. Mention of software products manufactured by other companies does not necessarily constitute endorsement by the manufacturer.

While all reasonable efforts have been made to make this document as accurate and helpful as possible, we make no warranty of any kind, expressed or implied, as to the accuracy or completeness of the information contained herein.

This manual is mainly about installing the product. Carefully read the various guides regarding details about how to use the product and the Maintenance Manual about how to maintain the product.

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1. Before Installation

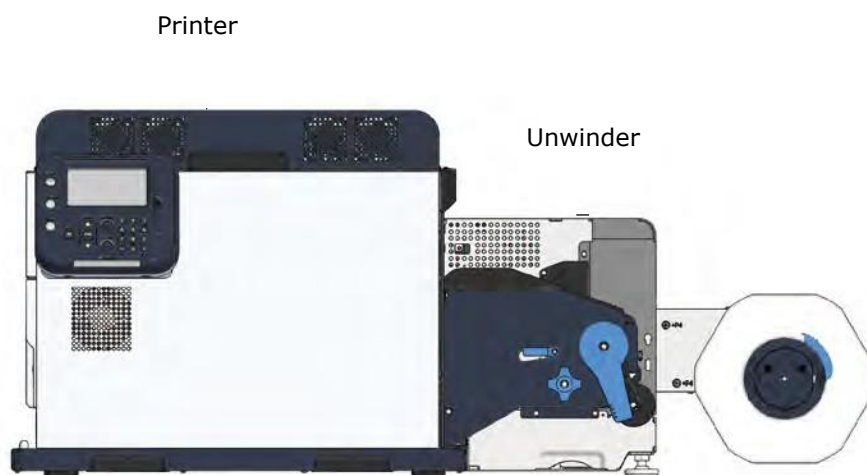
Overview of Configuration

The equipment is configured of the following units.

Label Printer (LT5C)

- Printer
- Unwinder

Equipment configuration



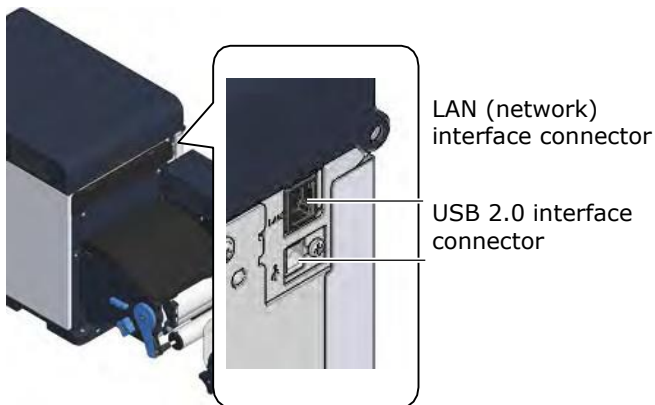
Names of Parts and Configured Units

The following shows the names of parts and the configured units for the equipment.

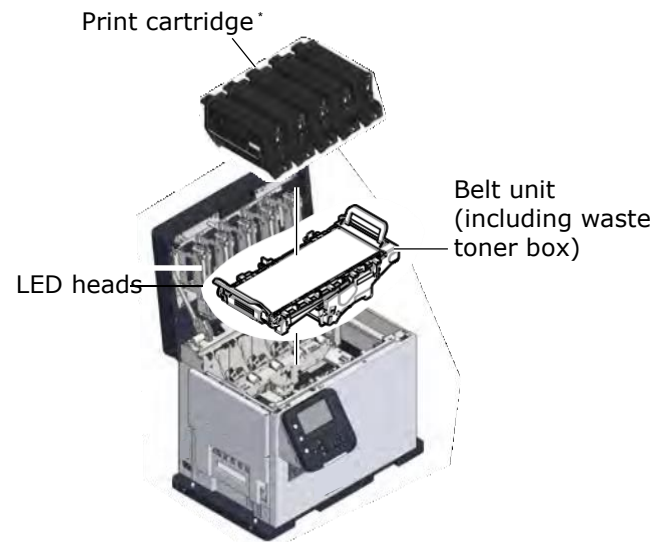
1. Printer



Interface

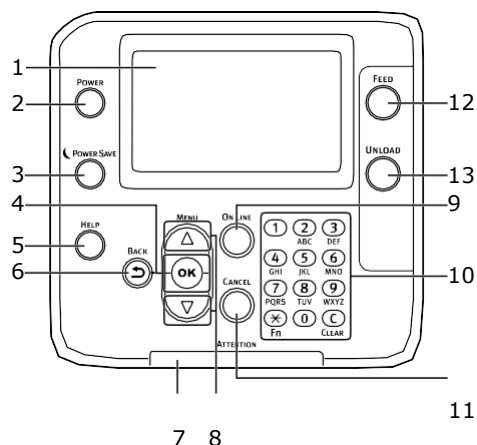


Inside printer



* Print Cartridge
5 (Y, M, C, K, W)

Control Panel

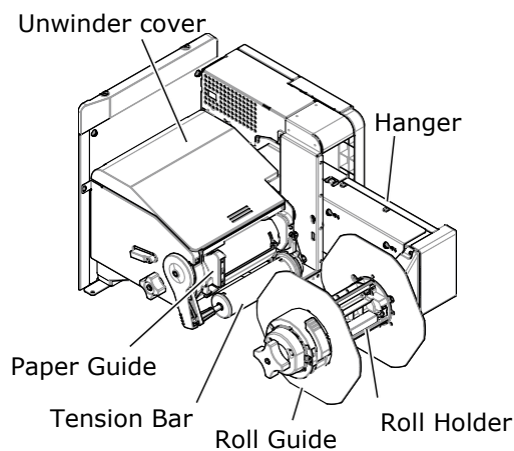


Number	Name	Function
1	Display screen	Shows the menus and state of the machine. In the standby screen, there are two types, the "Supplies Life" and the "Unwinder Config".
2	<POWER>	Turns the machine's power on and off.
3	<POWER SAVE>	Switches power saving (power save) between on and off.
4	<OK>	Enters selected items and set values.
5	<HELP>	Displays the help screen.
6	<BACK>	Returns to the previous screen.
7	ATTENTION lamp	Displays the state of the machine. Turns off when normal. Lights or flashes orange when an error occurs.
8	Scroll buttons ▲▼	Selects items displayed on menu screens and scrolls to the previous (or next) page. They can be used to input numbers on value input screens.
9	<ON LINE>	Switches between online and offline. Lights green while online and turns off while offline.
10	Numeric keypad	Inputs numbers and symbols.
11	<CANCEL>	Stops printing and cancels settings.
12*	<FEED>	Feeds paper.
13*	<UNLOAD>	Winds up paper.

* Covered when shipped from factory.

2. Unwinder

Front/right side



2. Installation

This chapter explains how to open the packaging, remove the printer and the unwinder, and install them.

Be sure to carefully read and follow the instructions in this manual before installing the machine.

Checking the Product

Open the packing box and confirm its contents.

 CAUTION	Risk of Injury	
The printer weighs about 43 kg (95 lb)* and requires at least two people to lift it.		

* Including the print cartridge and other consumables.

Printer

Printer



Print cartridges

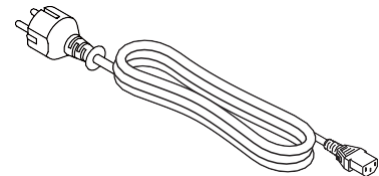
(One each of yellow, magenta, cyan, black, and white)



Installers and Manuals

Download the latest installers and manuals from <https://afinialabel.com/LT5Cinfo>

Power cord

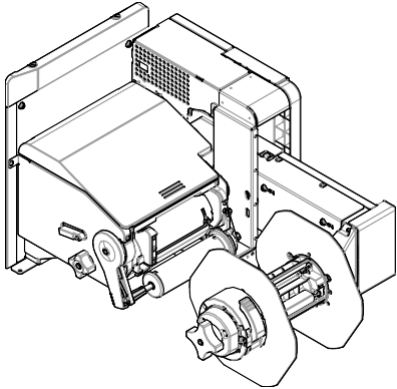


NOTE

- The package does not include a LAN cable, USB cable, or hub. Procure them separately.
- The packing box and packing materials are needed to transport the machine. Keep them and do not throw them away.

Unwinder

Unwinder



Mounting screws (3)

Cable clamps(3)

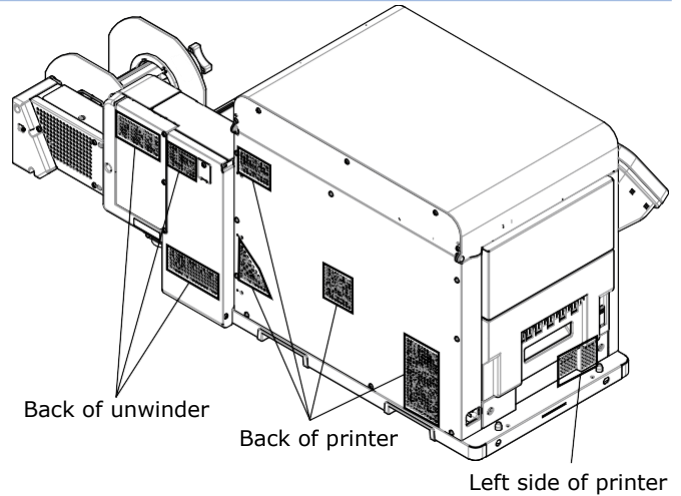
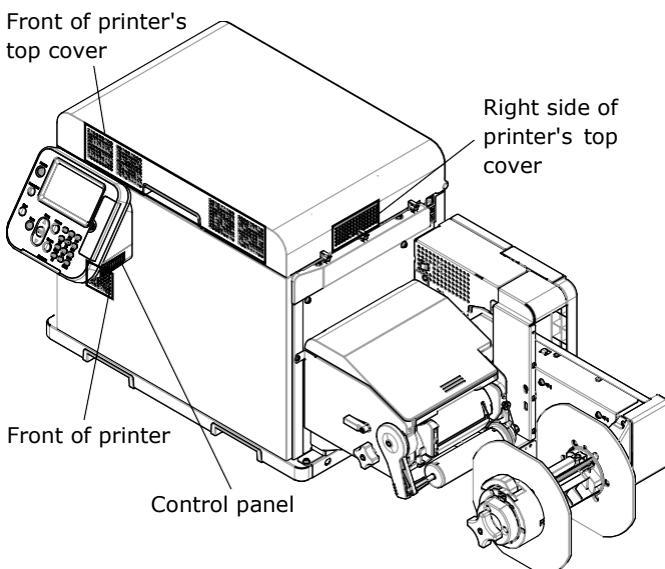
Confirming the Installation Environment and Location to Install the Machine

For safe and comfortable operations, install the product in a location that satisfies the conditions in **Precautions related to installation**, **Installation Environment**, and **Installation Space** as described below. This section also has precautions related to installation. Be sure to read these before starting installation work.

Precautions related to installation

WARNING

- Do not install the equipment in a location that is near open flame or may become very hot.
- Do not install the equipment in a location prone to chemical reactions (laboratory, etc.).
- Do not install the equipment in a location that is near flammable liquids, such as alcohol or paint thinner.
- Do not install the equipment in a location that is accessible by small children.
- Do not install the equipment in a location that is unstable (on a wobbly table or inclined place).
- Do not install the equipment in direct sunlight or in a very dusty or humid location.
- Do not install the equipment in an environment subject to salt air, NOx, SOx or corrosive gases.
- Do not install the equipment in a location that is subject to excessive vibration.
- Do not install the equipment in a location where the machine's vents are blocked. Check the positions of the vents in the following illustration.



CAUTION

- Do not install the equipment on a thick-piled carpet or rug.
- Do not install the equipment in a location that is poorly ventilated or stuffy.
- Pay attention to ventilation when operating the equipment continuously for a long period in a small room.
- Install the equipment away from sources of strong magnetic or electric noise.
- Install the equipment away from monitors or televisions.
- Remember to use ventilation when printing large volumes or operating the equipment continuously for a long period.
- The machine's acoustic power level exceeds 6.3B, so recommend that it be installed in a room separate from office work areas.

Consider the following environment conditions when you select the installation location.

[Installation Environment]

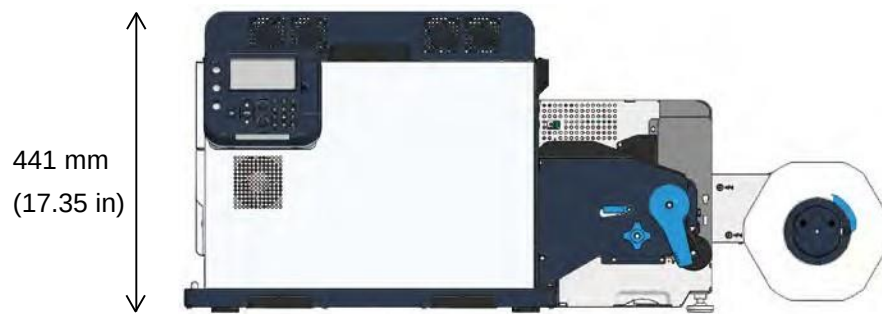
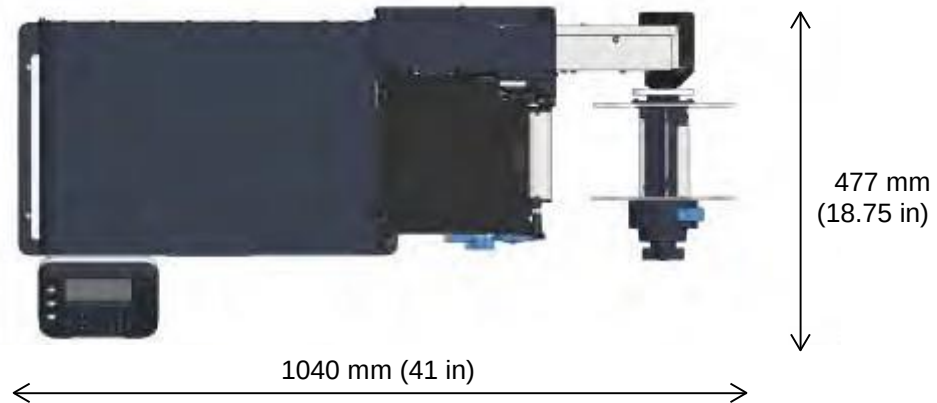
Use a location that is within the following ranges for temperature and humidity.

Temperature range:	10 to 30°C (50-85 °F)
Humidity range:	30 to 70% RH (relative humidity)
Maximum wet-bulb temperature:	25°C (77 °F)



- Be careful that condensation does not form.
- If you install the equipment in a location where the humidity is in a range of less than 30%, use a humidifier or anti-static mat.

External Dimensions

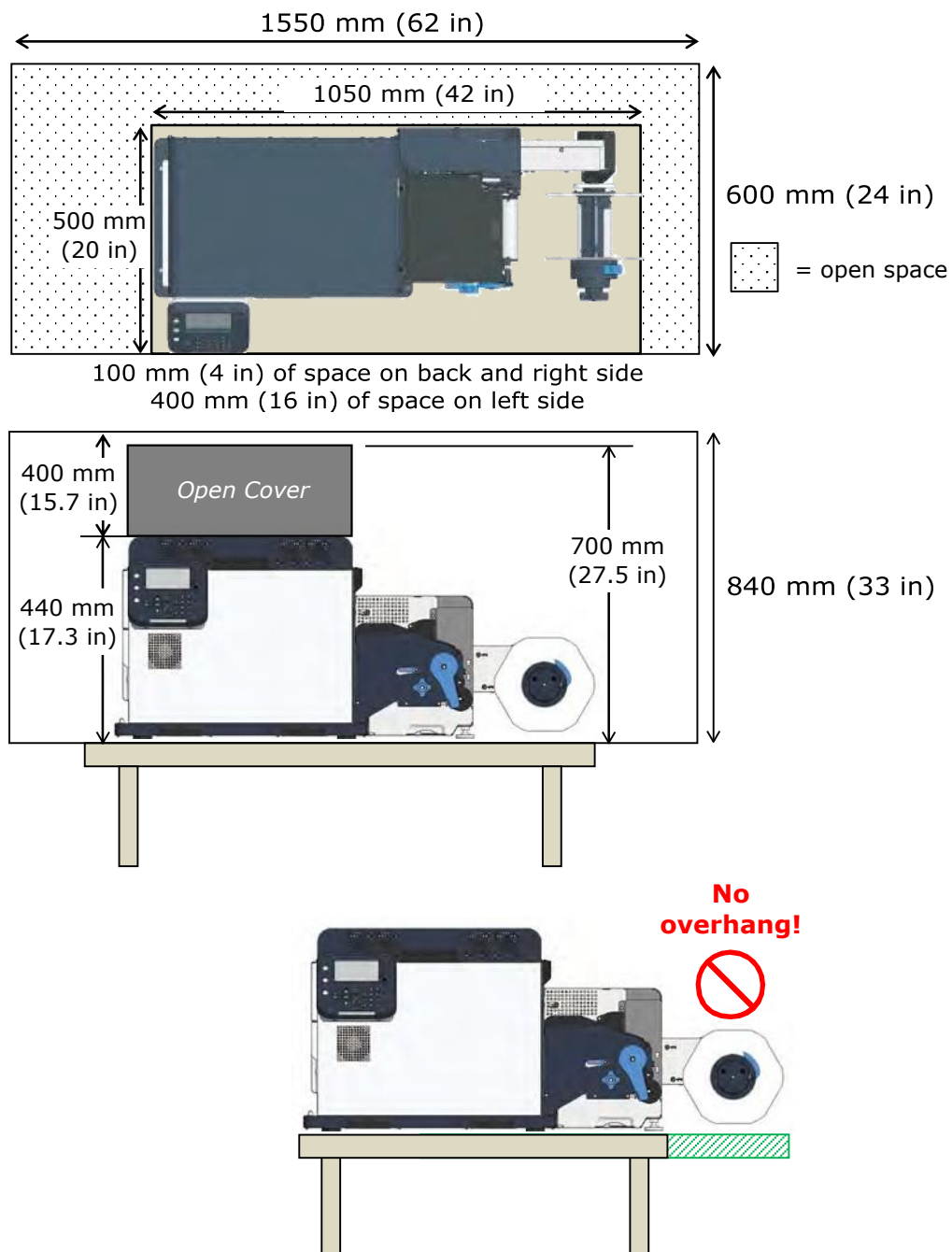


Installation Space

- Select an installation location that is level and can support at least 65 kg (143 lbs.)*.
* Including the print cartridge and other consumables.
- Install the machine near a power socket. Also, install the equipment so the power socket is within easy reach so the power plug can be pulled out in an emergency.
- Leave open space on all four sides and above for access.
- For safety, the unwinder should not hang over the edge of any support.

To install the printer and the unwinder on a stand or table, it must be at least 1050 mm (42 in) wide and 500 mm (20 in) deep. If you install the printer and the unwinder on a surface that is too small, they may fall off or be a safety hazard if they are hanging over the edge.

Install the equipment according to the equipment installation space shown in the diagram. Sizes are the minimum space needed.



Unpacking

Printer

This section describes how to unpack the machine.

Precautions when unpacking the printer

⚠ CAUTION

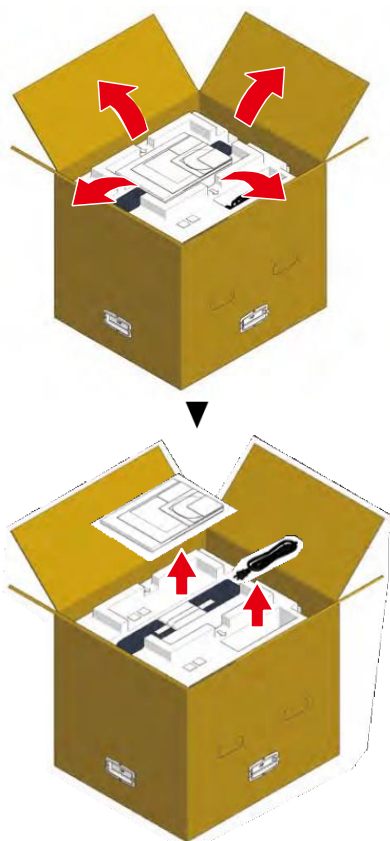
- ① Be sure to use two people to lift the equipment because it weighs about 43 kg (95 lb).
- ② Hold the handles on the equipment when lifting it.
- ③ Do not hold the control panel while lifting. There is a risk of injury if you hold the control panel, because the control panel may come off and you could drop the equipment.
- ④ Place the equipment on the floor to remove the packing materials and the plastic bag.
There is a risk of dropping the equipment and causing injury if you hold the equipment while working.
- ⑤ Be careful about handling the plastic bag.
- ⑥ Dispose of the desiccant appropriately.



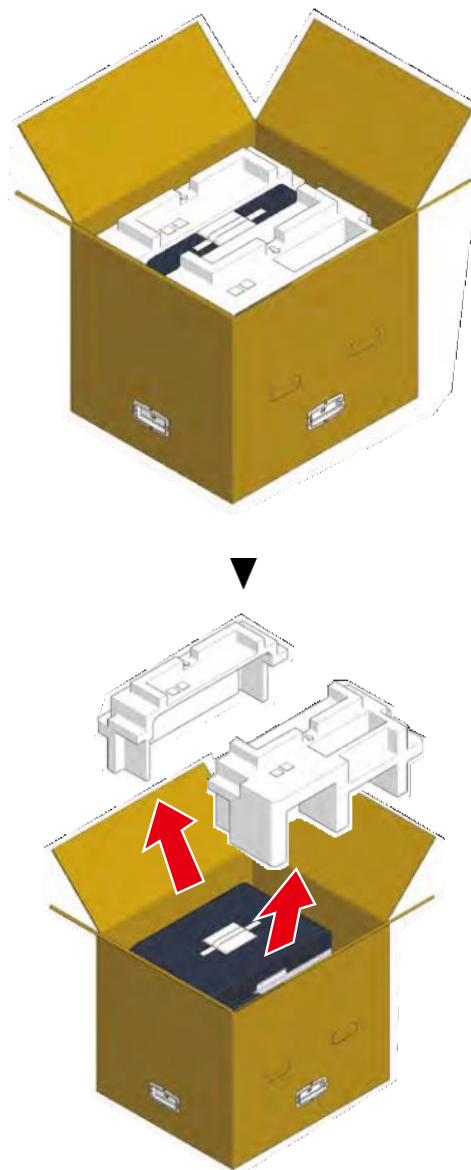
NOTE

- The packing box and packing materials are needed to transport the machine. Keep them and do not throw them away.

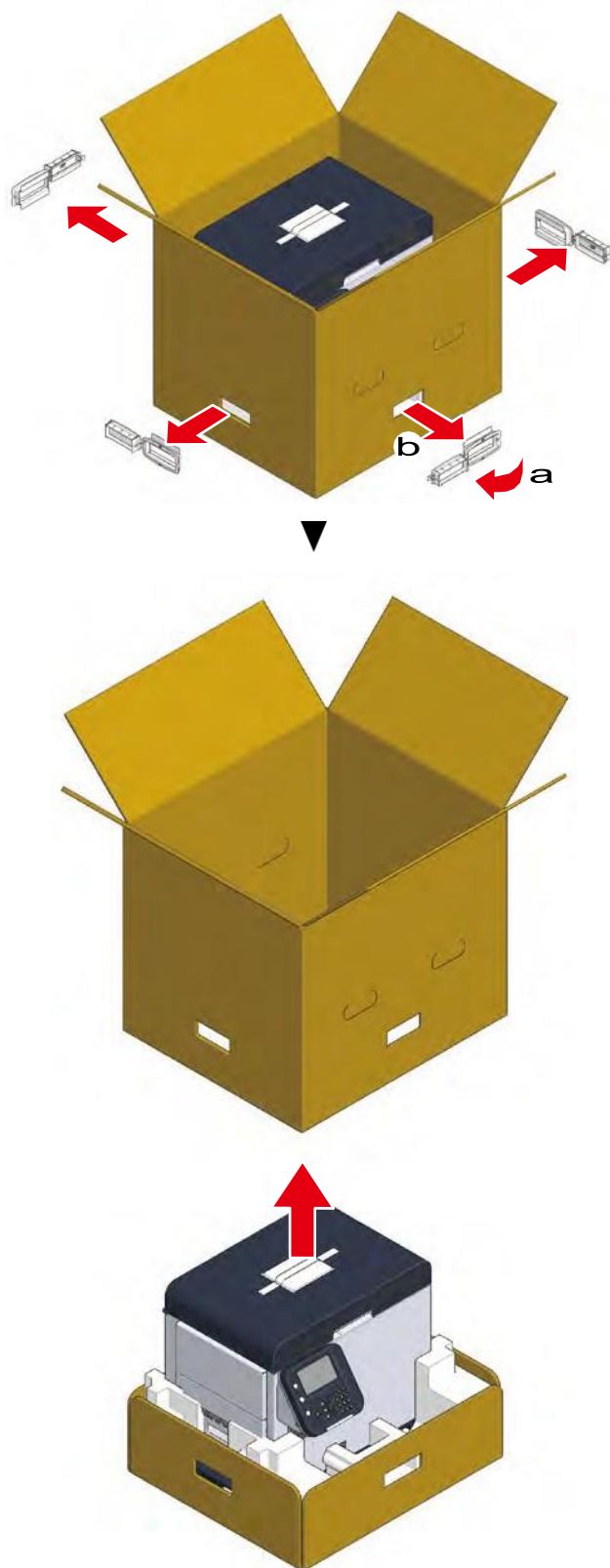
- 1** Open the top of the packing box and remove the machine's accessories.



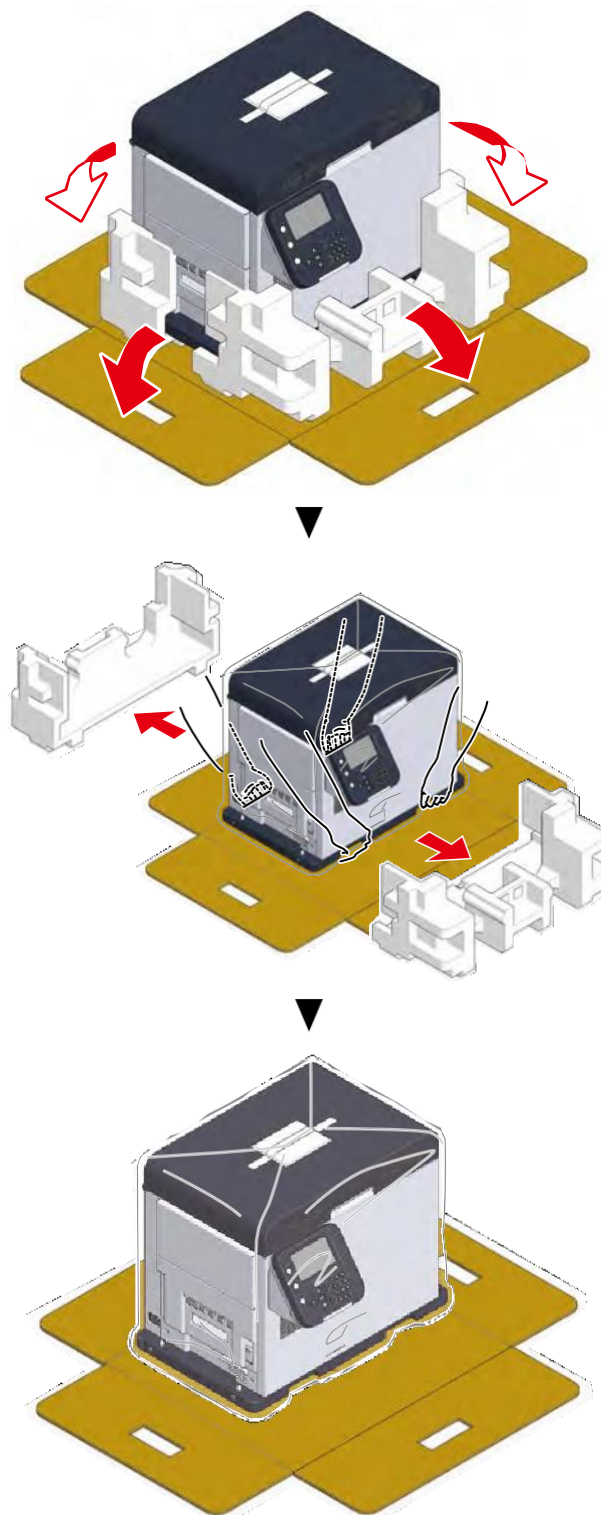
- 2** Remove the top layer of packing materials.



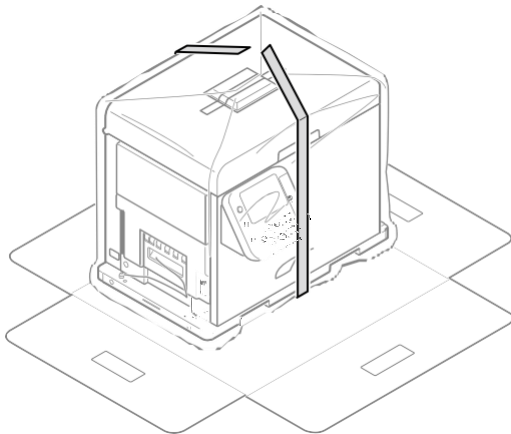
- 3** Remove the handles (4 pieces), and then remove the top of the packing box.



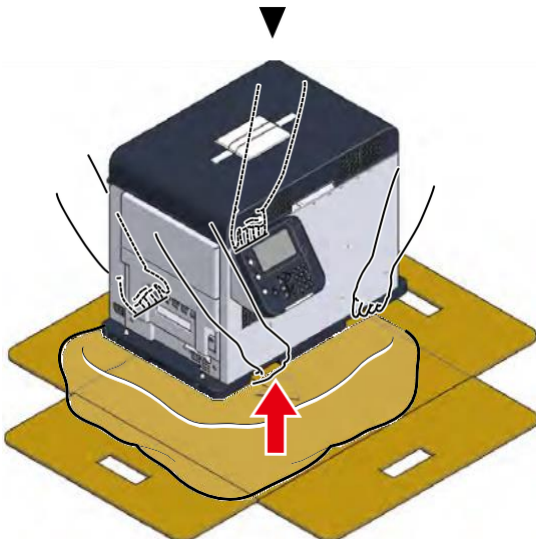
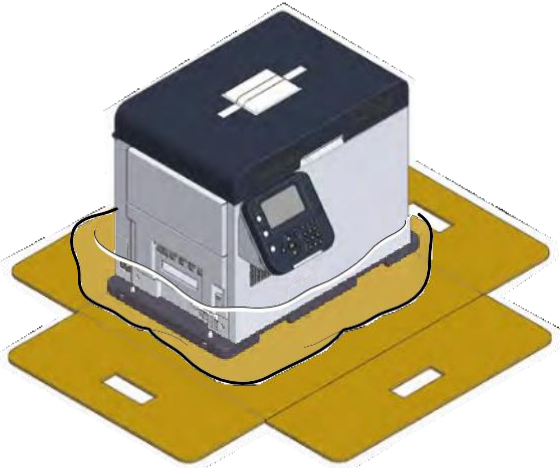
- 4** Open out the bottom part of the box, place your hands on the printer's handles (2 in front/2 in back) and support the printer as you remove the front and back packing materials on the bottom.



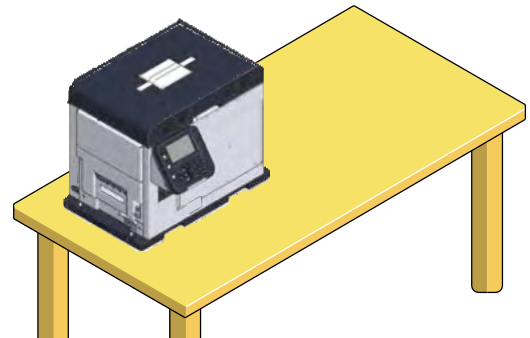
- 5** Cut and remove the bands that secure the printer.



- 6** Remove the plastic bag.



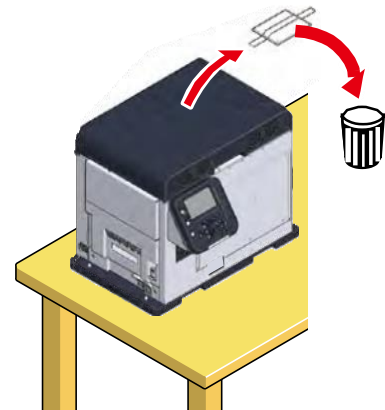
- 7** Place the printer in the installation space that you have prepared in advance (see page 15).



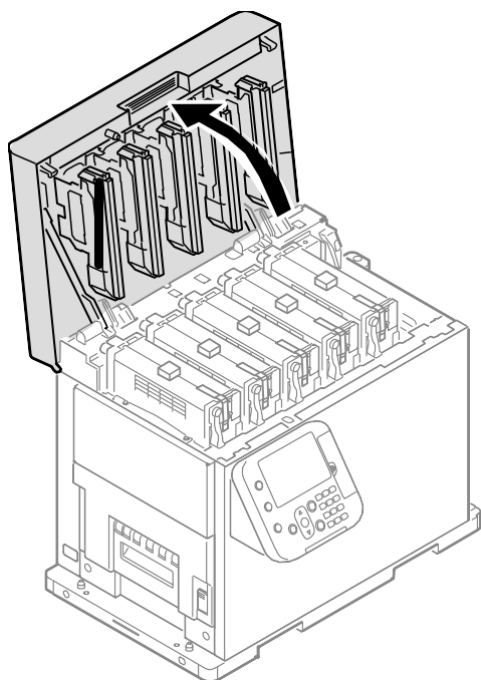
Note

- Allow enough space to work when installing the unwinder.
- The weight of the equipment, including consumables, is about 43 kg (95 lb). Install it on a stand that is strong enough.

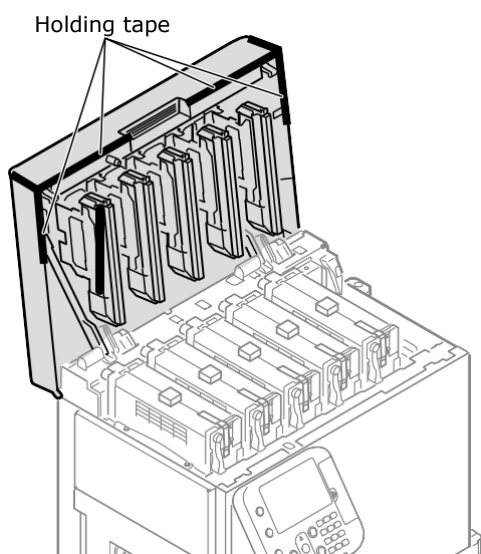
- 8** Remove the desiccant.



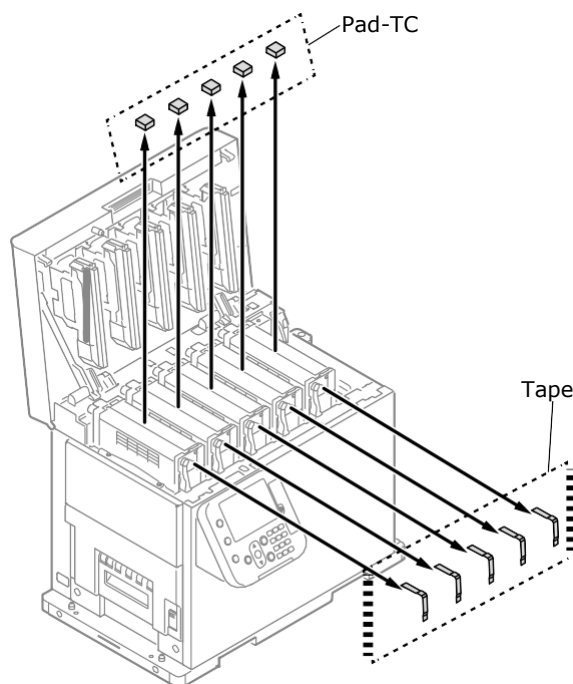
- 9** Grasp the top cover lever and open the top cover.



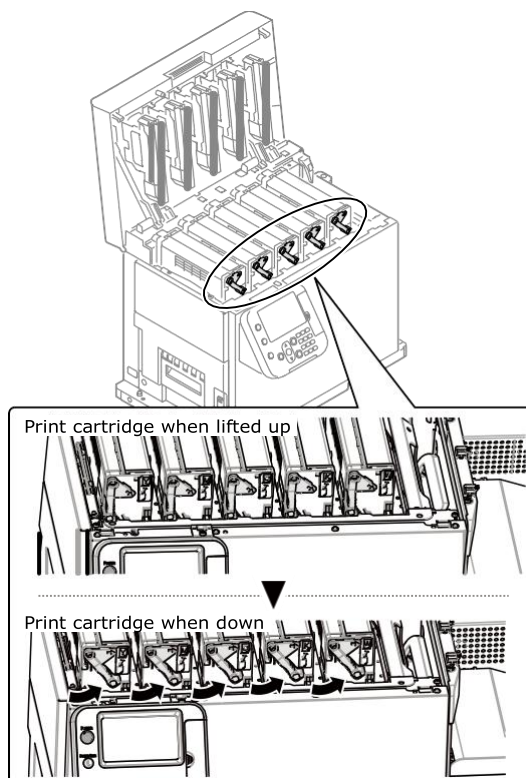
- 10** Remove the holding tape (4 pieces) from the edges of the top cover.



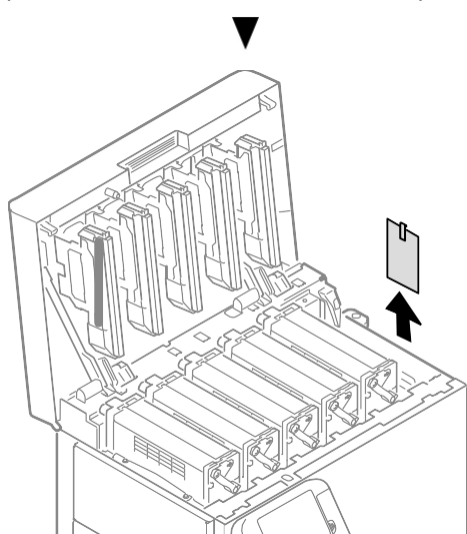
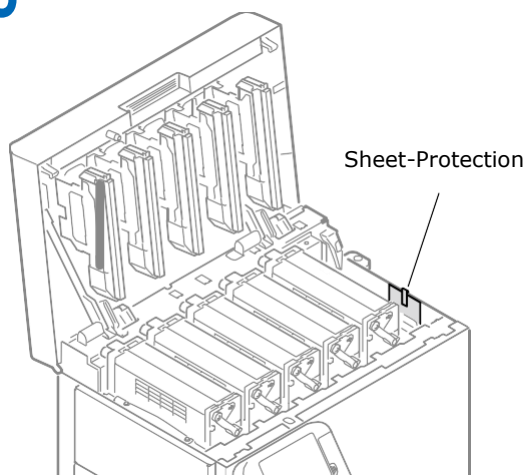
- 11** Remove the Pad-TC from the top of the print cartridge, and then remove the tape that is securing the lift levers.



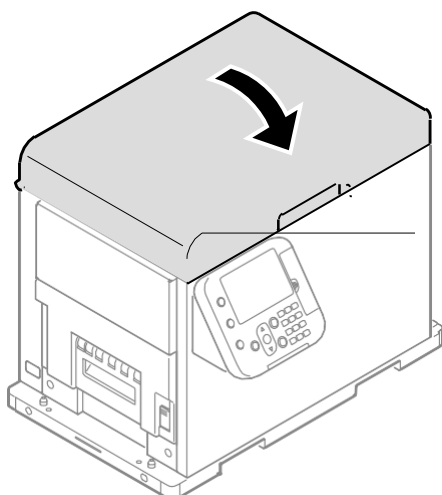
- 12** The print cartridges lift up, so turn the lift levers to lower the print cartridges.



13 Pull out the sheet-protection.



14 Close the top cover.



- When closing the top cover, there is a risk of pinching your fingers or hands in the top cover or the top cover's support. Press on the top of the top cover to close it.
- There is a risk of pinching your fingers or hands if you hold the LED head while closing the top cover. Press on the top of the top cover to close it.

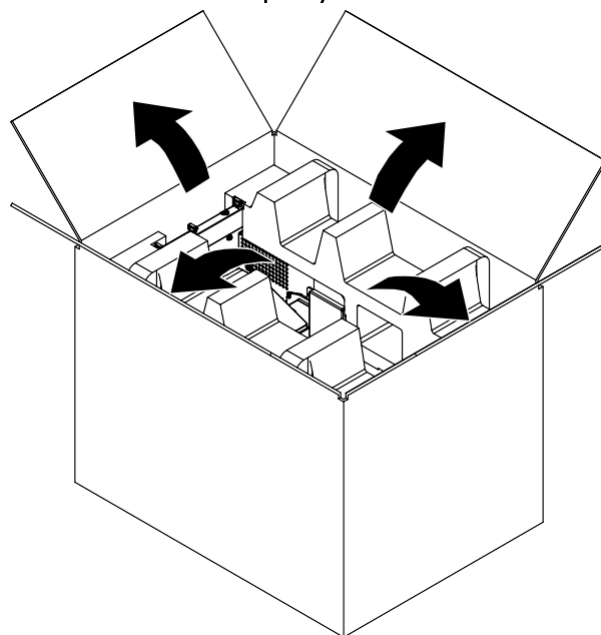
Unwinder

This section describes how to unpack the unwinder.

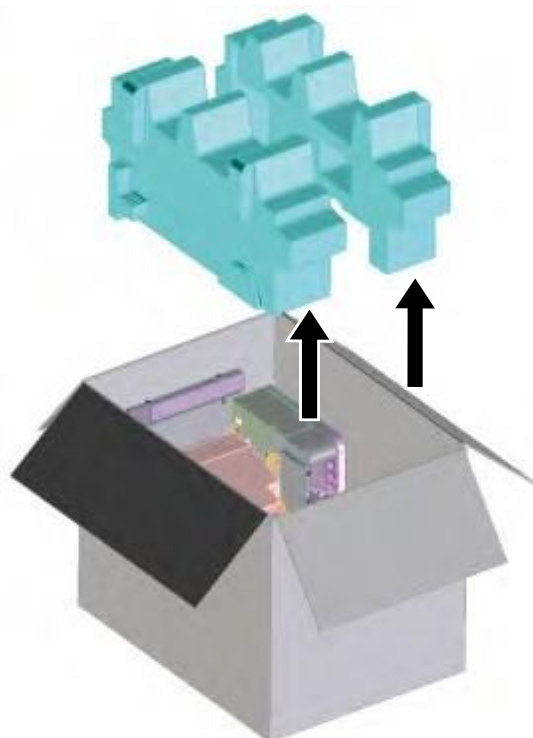


- The packing box and packing materials are needed to transport the unwinder. Keep them and do not throw them away.

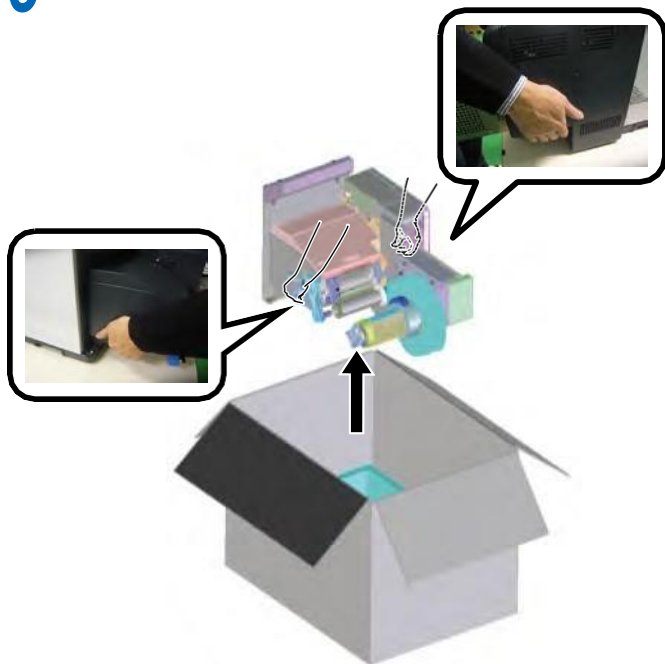
1 Open the top of the packing box and remove top layer of material



2

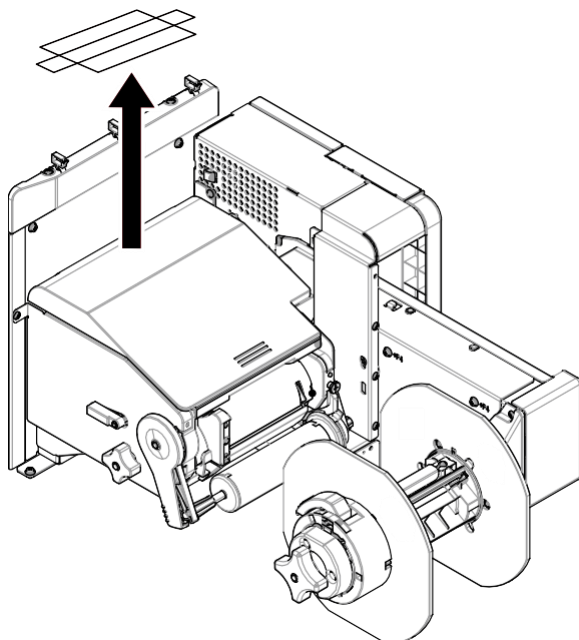


3 Remove the unwinder.

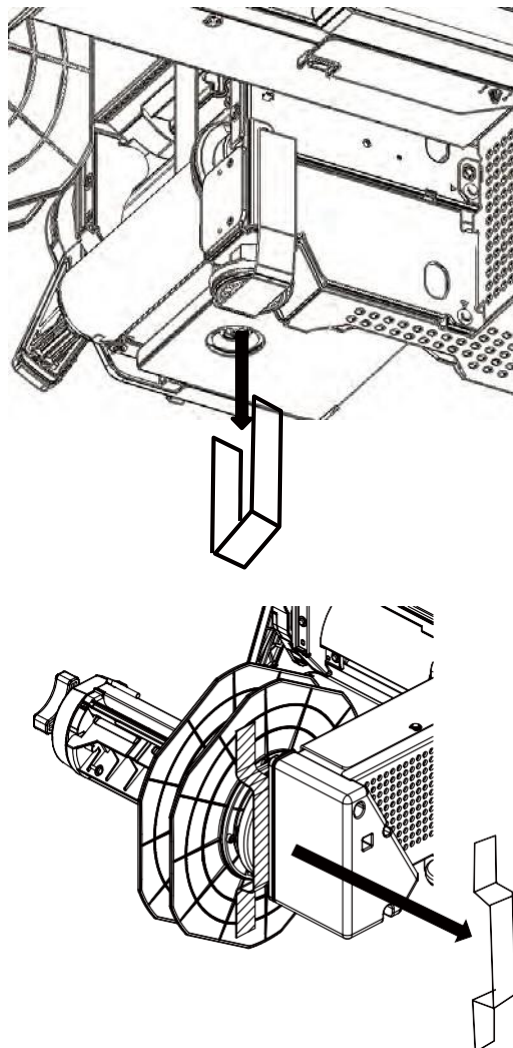


4 Remove the plastic bag from the unwinder, and then remove the accessories.

* Refer to the following pages regarding installation to the printer.



5 Peel off the tape from two locations.



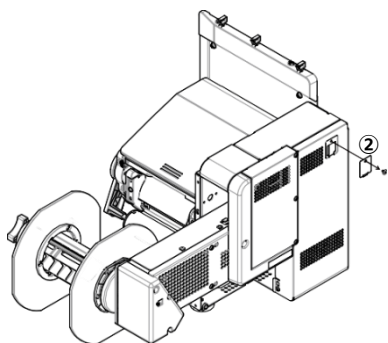
Unwinder Configuration

Configure the unwinder for outside winding or inside winding, according to the type of roll paper you are using.

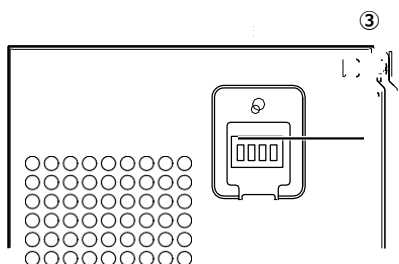
Outside winding is set at the factory, if your specifications are for outside winding, you do not need to change the configuration.

If you are using roll paper that is specified for inside winding, use the following procedure to change the unwinder's settings.

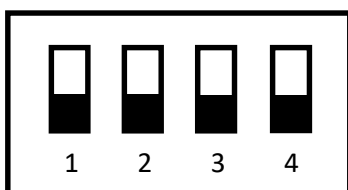
- 1** Remove screw ① from the unwinder, and then remove the switch cover ②.



- 2** Raise switch 1 to the left side of DIP SW ③.

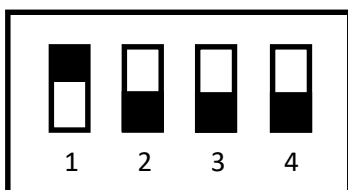


For outside winding



Set all switches, numbers 1 to 4, down

For inside winding



Set only switch number 1 up

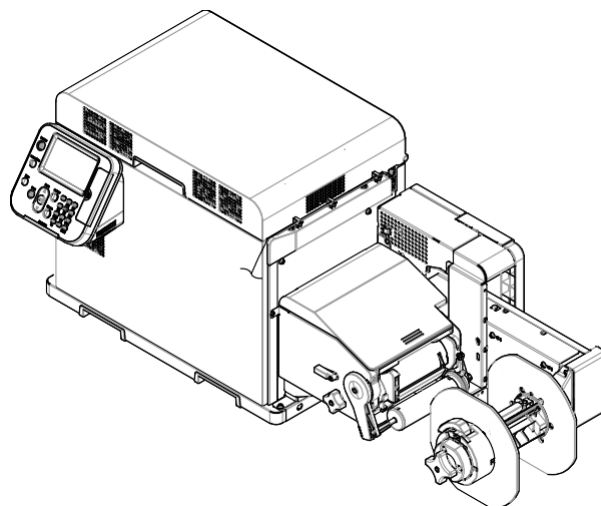
- 3** Insert the SW cover ② and attach it with the screw ①.

Installing Cable Clamps

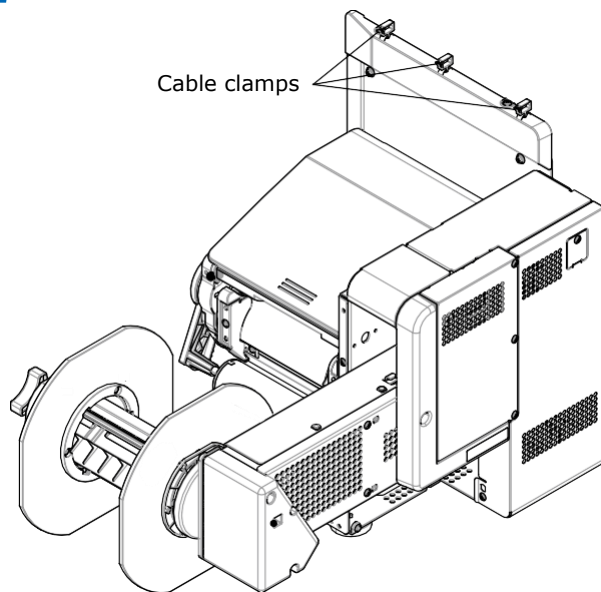
Cable clamps are provided with the unwinder.

Use them to run the cable connected to the printer's interface along the front.

Example



- 1** Install cable clamps (x 3 pieces).



Installing the Unwinder on the Printer

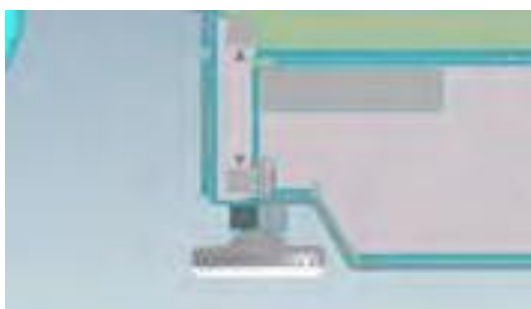
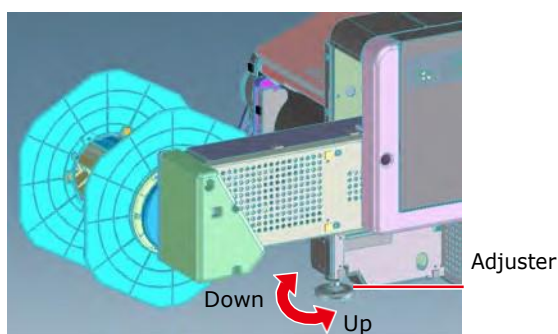
After configuring the unwinder, install it on the printer.

Precautions for installing the unwinder on the printer

⚠ CAUTION

- ① Be careful that you do not drop the unwinder.
- ② Be careful that you do not pinch your hands or fingers between the unwinder and the printer.
- ③ Securely tighten the three screws. If they are loose, there is a risk that the unwinder may fall off or the print quality may be degraded.

- 1** Check whether the adjuster on the unwinder is raised up. If the adjuster is not raised, before you mount it on the printer, rotate it to the up position.

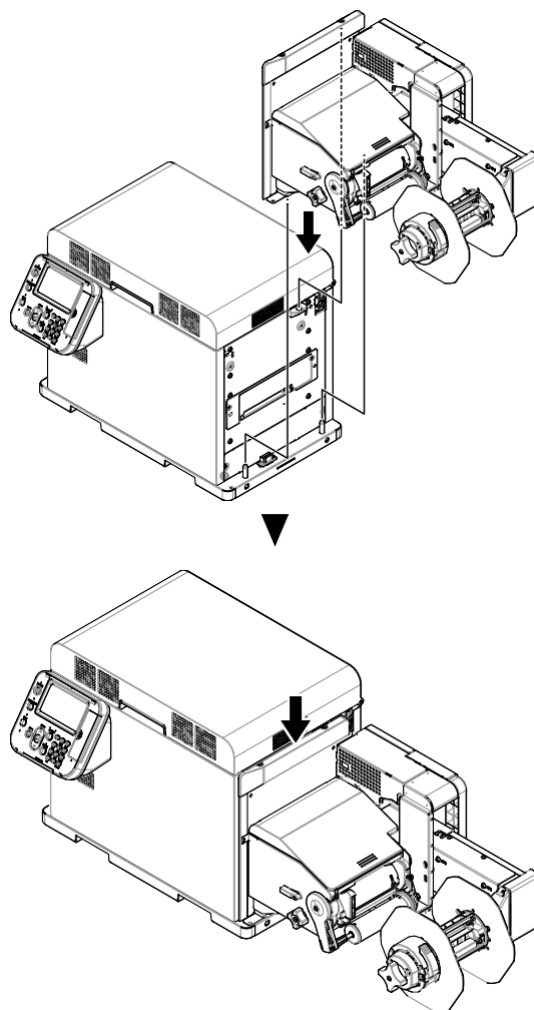


- 2** Hold the unwinder close to the mounting pins and mounting hole, and then press it against the right side of the printer and lower it.

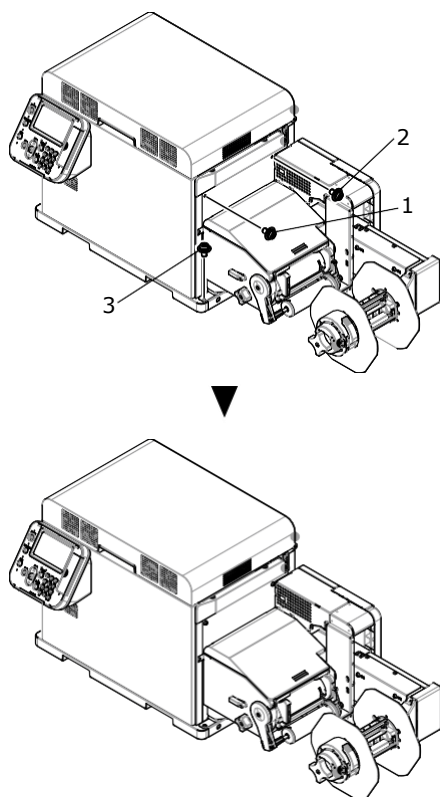


Note

- Hold the specified parts of the unwinder (refer to Page 21, step 3) to install it on the printer.



- 3** Use three screws to secure the unwinder to the printer. Tighten the screws in order 1, 2, then 3, as shown in the following diagram.



- 4** Extend the adjuster so it contacts the stand.



Note

- Be careful not to extend the adjuster too far. The unwinder installation is complete.

Turning on and off the Power Supply

Precautions about the Electric Power

⚠ WARNING

	• Be sure to turn off the power switch before attaching or removing the power cord or ground wire. Leaving the power turned on could result in a fire or electric shock.
	• Be sure to connect the ground wire to a dedicated ground terminal. Using the equipment without a ground wire connected could result in a fire or electric shock. If you cannot connect to ground, contact the dealer where you bought the equipment.
	• Never connect a ground wire to a water pipe, gas pipe, telephone wire ground, lightning rod, or anything similar. Fire, electric shock, or gas explosion could result.
	• Always hold the power cord by the plug when you plug or unplug it. Pulling on the power cord could damage the power cord and result in a fire or electric shock.
	• Plug the power plug securely all the way into the power socket. Not plugging it all the way in could result in a fire or electric shock.
	• Do not plug or unplug the power plug if your hands are wet. Electric shock could result.
	• Do not step on or place objects on the power cord. The cord could be damaged and result in a fire or electric shock.
	• Do not use the power cord while it is tied or bundled up. The cord could overheat, be damaged and result in a fire or electric shock.
	• Do not use a damaged power cord. Fire or electric shock could result.
	• Do not plug too many power cords into a single power socket. Fire or electric shock could result.
	• Do not connect other electronic products to the same power socket as the machine. The machine may malfunction due to the electronic noise particularly if you connect an air conditioner, copier, shredder, or other device at the same time. If you must connect them to the same power socket, use a commercially available noise filter or noise cut transformer.



- Do not use extension cords. If you use an extension cord, the drop in AC voltage may cause the machine to not operate correctly. If you must use one, use one that is rated for at least 100 V at 15 A. Fire or electric shock could result if you use one that is outside the specified range.



- Do not turn off the power or unplug the power plug while printing. Damage or electric shock could result.



- If the equipment will not be used for a long period, such as during an extended holiday or vacation, unplug the power cord to be safe.



- Use the power cord provided with the machine. Do not use a power cord from a different product. Electric shock or fire could result.



- The power cord provided with the machine is for the machine only. Do not use it for a different product. Electric shock or fire could result.



- Operations are not guaranteed when using a UPS (uninterruptible power source) or inverter. Do not use an uninterruptible power source or inverter. There is a risk of fire.

Power source conditions

The following conditions are required for the power source.

Voltage: 110 - 127 VAC (Range 99 - 140 VAC)
220 - 240 VAC (Range 198 - 264 VAC)

Frequency: 50/60 Hz $\pm$ 2%

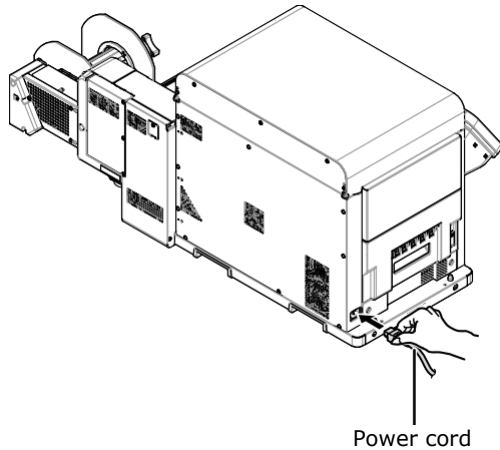


Note

- If the power source is unstable, use a voltage regulator.
- The machine's maximum power consumption is 1200 W. Be sure that the power source has sufficient capacity.
- Operations are not guaranteed when using a UPS (uninterruptible power source) or inverter. Do not use uninterruptible power source or inverters.

Connecting a Power Cord

- 1 Securely insert the power cord provided into the power connector on the machine.

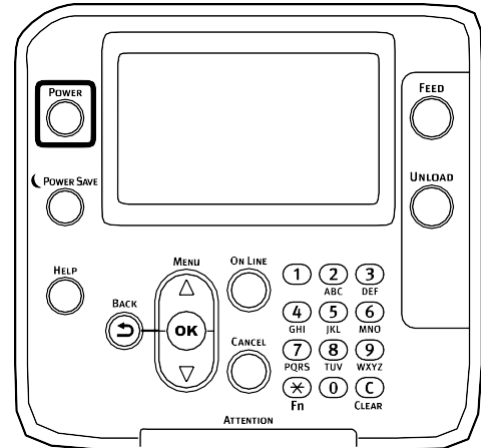


- 2 Plug the power plug into the power socket.

Turning on the Power Supply

- 1 Press and hold the <POWER> button for approximately 1 second.

When the power is turned on, the LED lamp on the <POWER> button turns on.

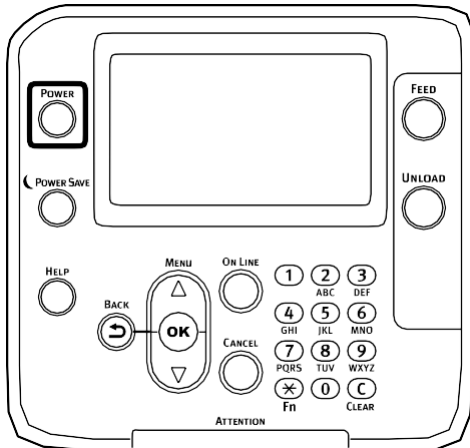


Memo

- When the machine starts, the Afinia Label logo screen appears on the LCD on the control panel. After a short time, the idle display appears and printing is possible.

Turning off the Power

- 1** Press and hold the <POWER> button for approximately 1 second.



"Shutting down. Please wait. Printer will turn off automatically." appears on the control panel and the LED lamp on the <POWER> button flashes at one second intervals.

Wait a moment, and the machine's power automatically turns off and the LED lamp on the <POWER> button turns off.

Memo

- Pressing on the <POWER> button for five seconds or longer forces the power to turn off. Do this only if some trouble occurs. Refer to the "Maintenance Guide" regarding trouble with the machine.



- Do not touch the power plug or power socket if your hands are wet. There is a risk of electric shock.
- Do not insert any metal objects, such as a screw driver, into the power socket. There is a risk of electric shock.

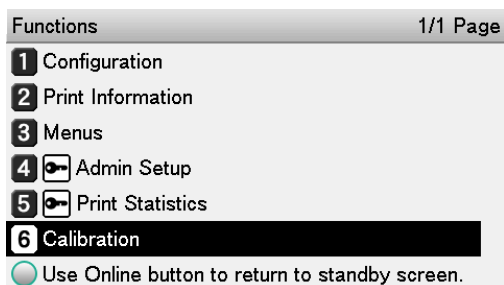
Test Printing

Adjusting Density and Test Printing

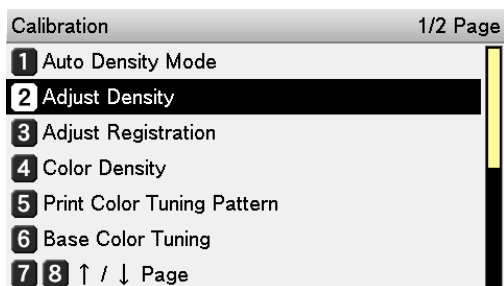
1 Load a roll of paper (regular continuous paper, 130-mm wide) on the unwinder. Refer to the "User's Guide" for the procedure to set paper.

2 Press the <POWER> button on the control panel to turn on the printer's power.

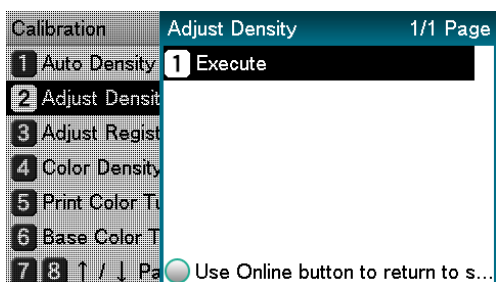
3 Press the scroll button ▼ several times, to select [Calibration], and then press the <OK> button.



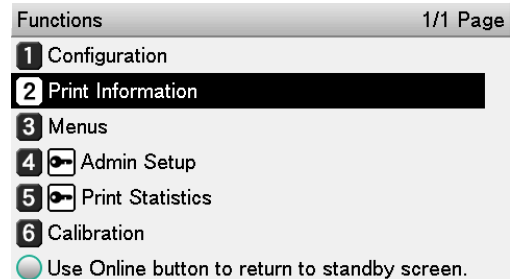
4 Press the scroll button ▼ several times to select [Adjust Density], and then press the <OK> button.



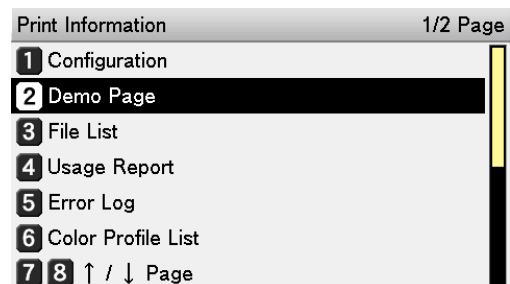
5 Check that [Execute] has been selected, and press the <OK> button.



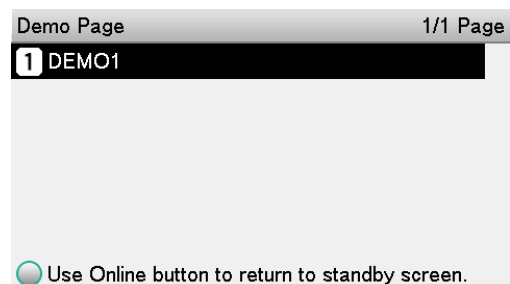
6 Press the scroll button ▼ several times, and when [Print Information] appears, press the <OK> button.



7 Press the scroll button ▼ to select [DEMO Page], and then press the <OK> button.



8 Check that [DEMO1] has been selected, and press the <OK> button.



Paper feeds and a demo page is printed. If the paper does not feed well, the print out is strange, or something else, confirm that the printer is installed correctly.

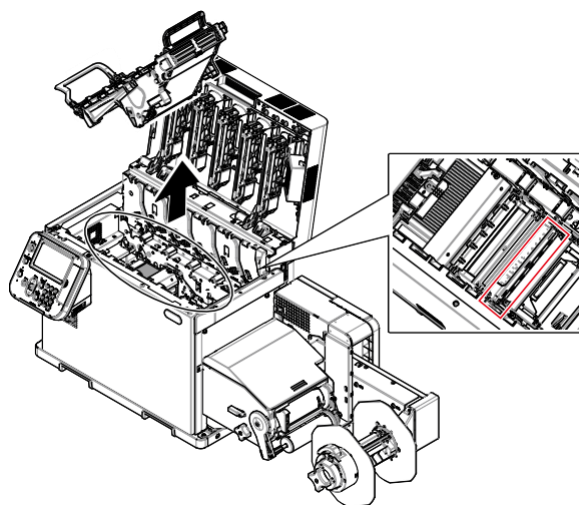
Adjusting the Position of the Sensor

You need to adjust the positions of the unwinder's black mark/gap sensors and the printer, according to the media you are using.

Refer to the "User's Guide" regarding how to adjust the positions of the sensors.

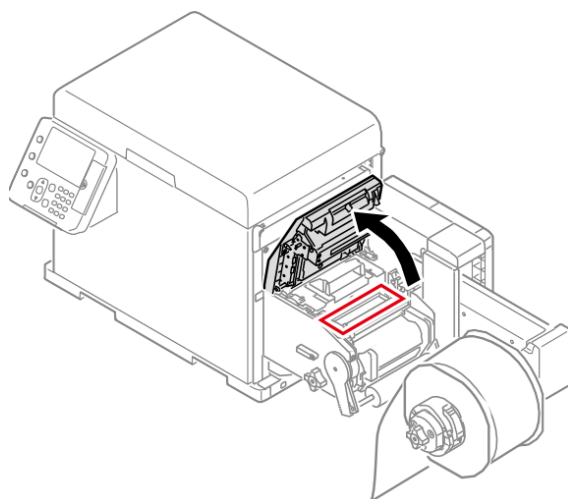
Printer

Black mark/Gap sensor



Unwinder

Black mark/Gap sensor



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