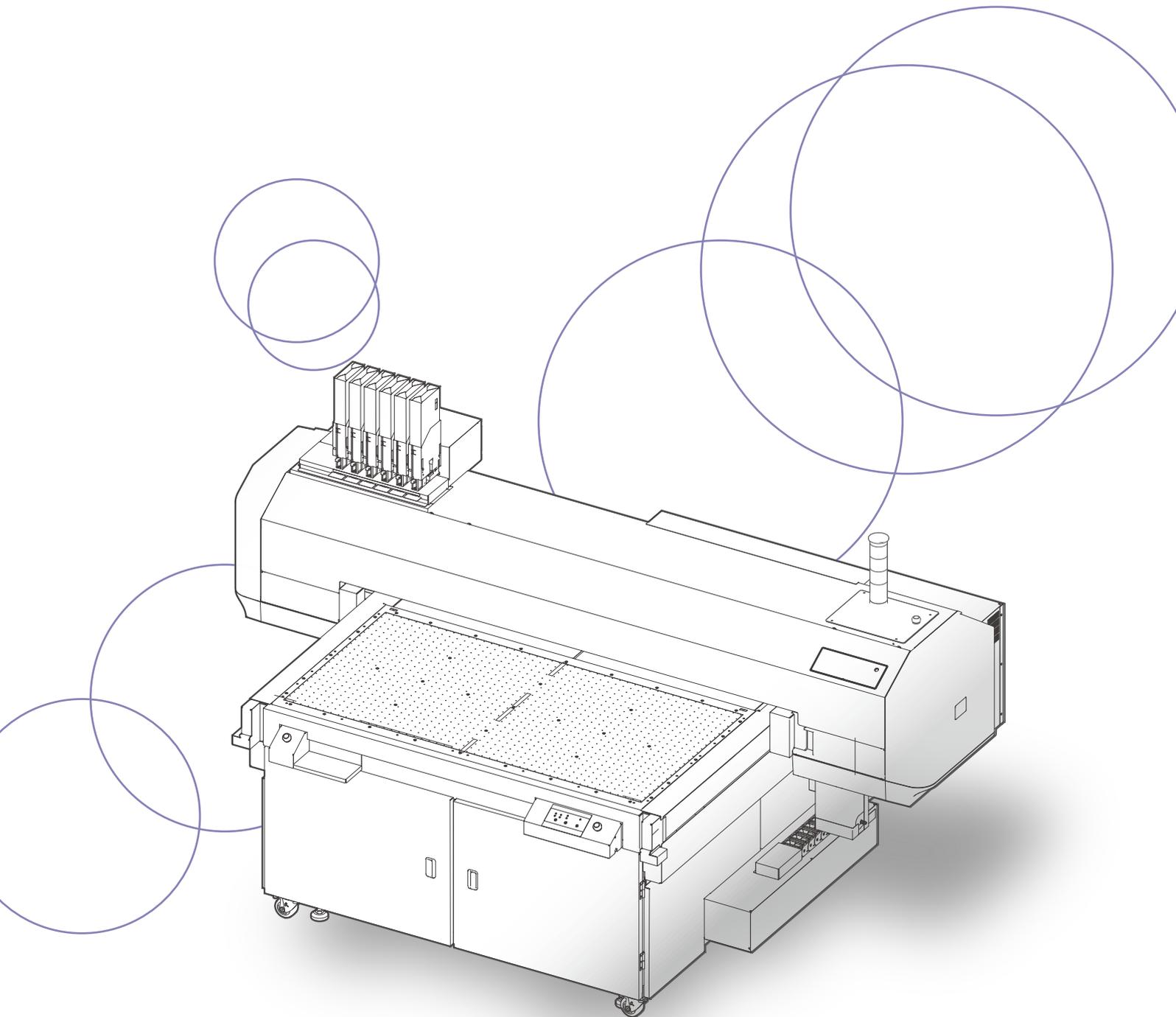


**MUTOH**

# XPJ-1462UF

## Startup Guide

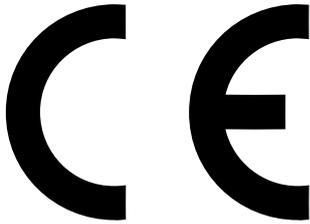
### Unpacking and Assembling Instructions



# Important Notice

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## For Users in Europe



The CE marking is a mandatory European marking for certain product groups to indicate conformity with the essential health and safety requirements set out in European Directives.

By affixing the CE marking, the manufacturer, his authorized representative, or the person placing the product on the market or putting it into service ensures that the item meets all the essential requirements of all applicable EU directives and that the applicable conformity assessment procedures have been applied.

## For Users in the United States

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This system (including the housing and safety device) is a Class 2 laser product.

Laser specifications of this system (including the housing)

Wavelength: 655 nm, maximum output: 1mW or less, pulse duration: 3.0  $\mu$ s

- Complies with IEC 60825-1 Edition 3.0 (2014-05-15). Complies with FDA performance standards for laser products except for deviations pursuant to Laser notice No.56 dated May 8, 2019.

## CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in radiation exposure.

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VerteLith™ is trademark of MUTOH INDUSTRIES LTD.

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- Unauthorized copying or duplication of the whole or part of the contents of this Guide is prohibited.
- Every care has been taken in writing the contents of this Guide, but please contact MUTOH or the dealer you purchased the product from if you find any unclear, erroneous or otherwise unsatisfactory content in the Guide.
- Please be aware that MUTOH will not be liable in any way for failures or accidents that result from handling or operating the printer according to any procedures other than those set forth in this Guide.

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# Safety Symbols

## Symbols

In this document, the following symbols are used for the instructions that must be followed to avoid risk of harm to human health or damage to the property. Please read and understand the meaning of each symbol and ensure the safe use of the printer.

### Warnings and cautions

 <b>Warning</b>	Failure to follow the instructions could result in serious injury or death.
 <b>Caution</b>	Failure to follow the instructions could result in minor injury or damage to the product.

### Actions that must be avoided or Instructions that must be followed

	Indicates an action that must be avoided. A black symbol in the sign indicates the prohibited action.
	Indicates an important instruction that must be followed. A symbol in the sign indicates the instruction must be followed.

### Other symbols

 <b>Important !</b>	Provides information that require special attention or should be followed.
 <b>Note</b>	Provides supplemental or reference information.
	Indicates the link to the reference section.

### Note

For the name of each part marked with warning or caution symbols, see “Before Use” on the XPJ-1642UF operation manual.

Check before  
installation

Unpacking

Installing the printer

Leveling the printer

Attaching the  
dust covers

# Check before installation



## Caution

- The weight of this product will be over 500 kg (including jig, ink, waste ink, media). The floor where the product is installed must be able to support this product.
- Minimum three people are required for moving this product.
- Keep the work area well-ventilated. Odor of UV ink may adversely impact on health.
- This product is not suitable for use in location where children are likely to be present.

## Installation Location Requirements

Choose the location which satisfies the requirements below.

- The floor must be level.
- Avoid vibration from the neighboring devices.
- Low humidity and free from dust.
- Less chance of temperature and humidity changes.
- Avoid direct sunlight.
- Avoid water.
- Avoid direct air onto the printer (including air from air conditioner).
- Low levels of electromagnetic waves.

## Minimum Space Requirements

The following space is required for installation.

a= 1000 mm

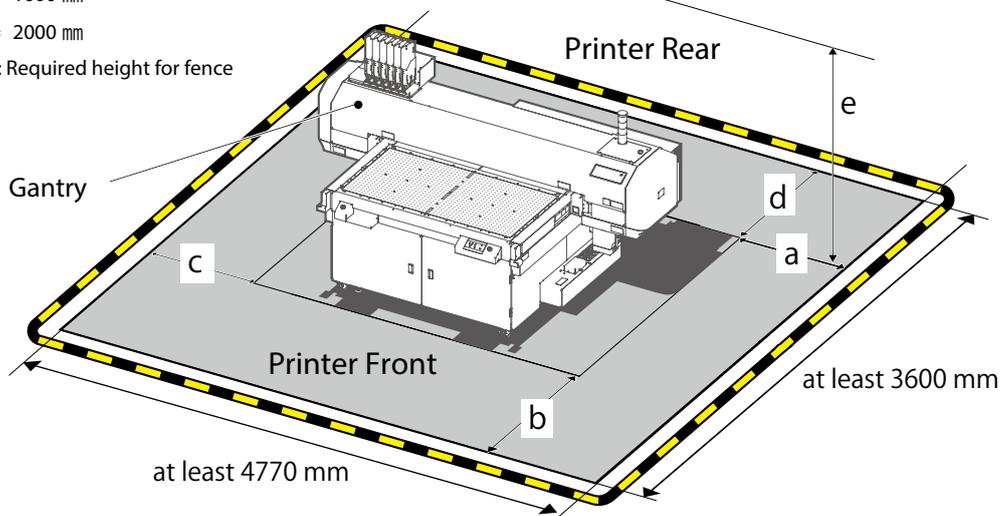
b= 1000 mm

c= 1000 mm

d= 1000 mm

e= 2000 mm

\*e: Required height for fence



Check before installation

Unpacking

Installing the printer

Leveling the printer

Attaching the dust covers

Printer size

Width x Depth : 2770mm×1600mm

Height : 1719mm

(When the gantry is in the top position with high-capacity ink pack adapter attached)

 Note

Minimum required space does not include a space required for operation. Ensure adequate space around the printer for safe operation.

## Power Specification

The installation site must meet the following power specification:

Input voltage : AC 100V to 240V ± 10%

Input frequency : 50/60Hz ± 1Hz

Input load current : 12 A

## Environmental Requirements

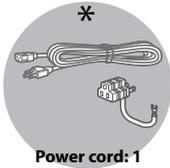
The installation site must meet the following environmental requirements:

- Operating condition:  
Temperature: 20°C to 32°C , Humidity: 40% to 60%, non condensing
- Printing Condition:  
Temperature: 22°C to 30°C , Humidity: 40% to 60%, non condensing
- Fluctuation:  
Temperature: no more than 2°C per hour , Humidity: no more than 5% per hour
- Printer Storage Condition:  
Without ink filled : Up to 6 months : Temperature: -20°C to 60°C , Humidity: 20% to 80%, non condensing  
With ink filled : Up to 30 days (\*1 \*2) Temperature: 5°C to 30°C , Humidity: 20% to 80%, non condensing  
\*1 Make sure to perform daily maintenance by following the instructions "Daily Maintenance" on the XPJ-1462UF operation manual.  
\*2 Leave the printer in sleep mode and do not power it off. Check the ink level and agitate ink once a week.
- Ink Storage Condition:  
Black / Cyan / Magenta / Yellow / Varnish (500 ml or 800 ml)  
White (UH21 ink 500 ml /US61 ink 800 ml)
  - UH21 ink : Temperature: -10°C to 50°C (The storage period between 40°C and 50°C should be up to one month)  
Humidity: 5% to 85%, non condensing
  - US61 ink:  
Temperature: 5°C to 35°C , Humidity: non condensing
- Cleaning cartridge (220 ml)(both UH21 and US61 inks)  
Temperature: -10°C to 50°C (The storage period between 40°C and 50°C should be up to one month)
- Humidity: 5% to 85%, non condensing

# Unpacking

## Preparations

You will need the following items other than the supplied items for installation.



Power cord: 1

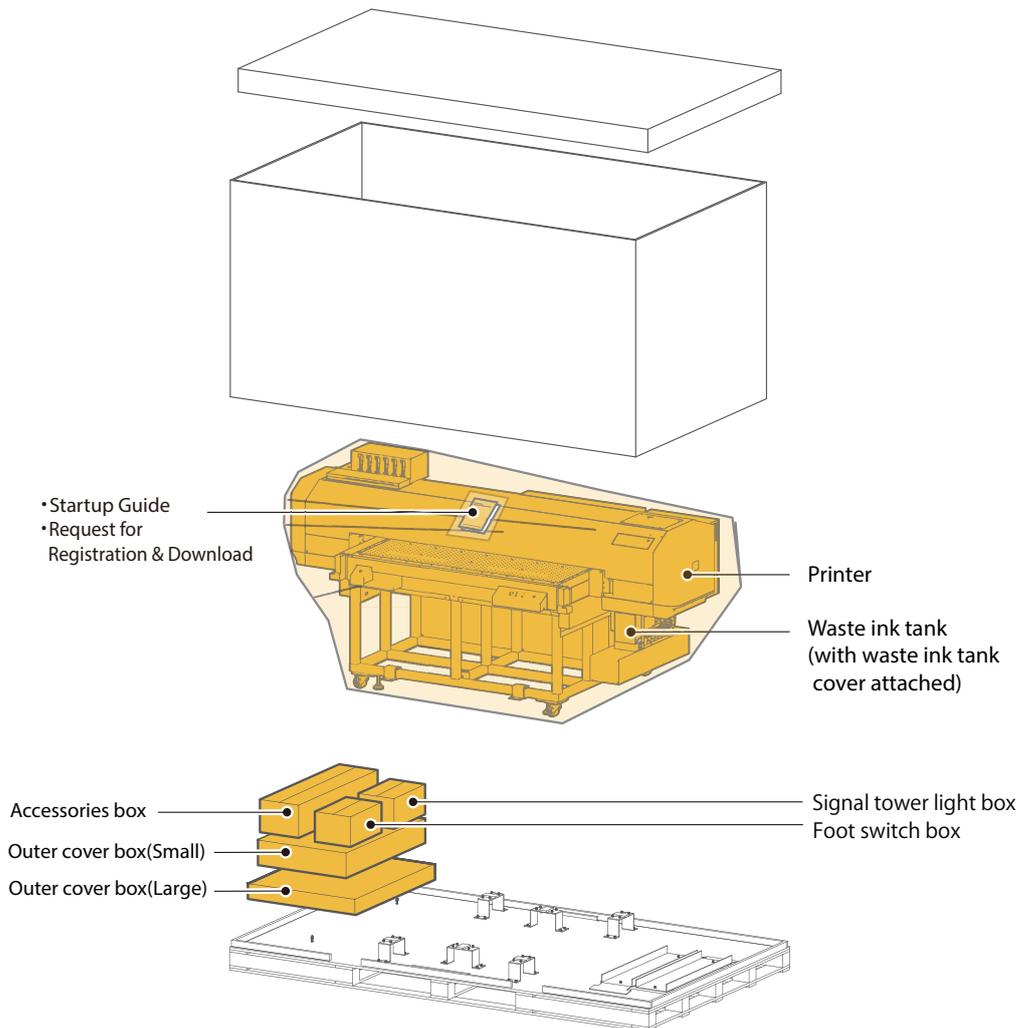
## Unpacking the printer



### Caution

- At least three people are required for unpacking and moving this product.
- When unpacking, wear protective gloves.

This product is packaged as shown below. Follow these steps to unpack the printer.



Check before installation

Unpacking

Installing the printer

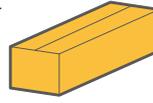
Leveling the printer

Attaching the dust covers

1

Remove the following items:

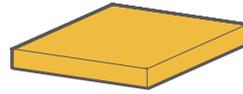
- Startup Guide (this document) and Request for Registration & Download sheet
- Accessories box
- Outer cover box (Large)
- Outer cover box (Small)
- Signal tower light box
- Foot switch box



Accessories box



• Startup Guide (this document)  
• Request for Registration & Download



Outer covers box (Large)



Outer covers box (Small)



Signal tower light box



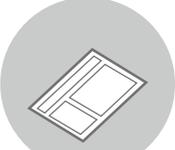
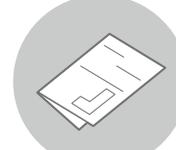
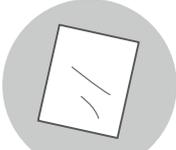
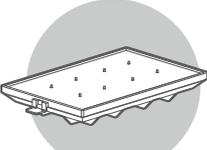
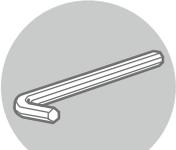
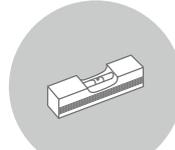
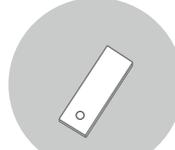
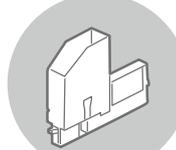
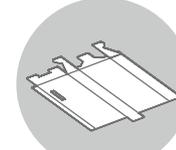
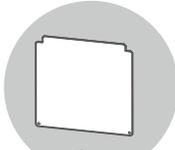
Foot switch box

Note

For “signal tower light” and “foot switch”, please see the installation guide included in each box.

2

Check that the following items are included in the accessories box.

- |  |   |   |   |   |
|--|---|---|---|---|
| <br>Daily maintenance sheet<br>: English/Japanese | <br>Notes for using<br>dedicated ink<br>: English/Japanese | <br>High-Capacity<br>Ink Pack Adapter (UV)<br>Operation Manual<br>: English/Japanese | <br>How to handle UV<br>inkjet printer / its supplies<br>: English/Japanese | <br>Safety Precautions<br>: English/Japanese |
| <br>Lamizip pouch : 1                             | <br>Flushing box pad : 3                                   | <br>Spanner: 1   | <br>Hex wrench: 1   | <br>Level : 1                                |
| <br>Cable tie:1                                  | <br>Rubber connector:20                                   | <br>Plastic cup<br>(100 ml) : 1   | <br>Dropper (5 ml) : 2   | <br>Cleaning stick : 50                     |
| <br>Polyethylene gloves : 100                   | <br>Rubber gloves : 100                                  | <br>Goggles : 1  | <br>Tray : 1  | <br>Scraper : 2                            |
| <br>Paper towel : 5                             | <br>Cleaning wiper: 6                                    | <br>High-capacity<br>ink pack adapter (UV) : 6                                     | <br>Ink light-blocking case : 6   | <br>Adapter sealing jig : 1                |
| <br>Ink color label : 1                         | <br>Vacuum fan cover : 1                                 | <br>Screw (M3x6) : 2   |   |   |

 **Note**

All the sheets are bound with a ring.

Check before  
installation

Unpacking

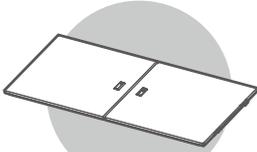
Installing the printer

Leveling the printer

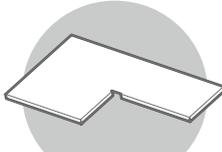
Attaching the  
dust covers

**3** Check that the following items are included in the outer cover boxes.

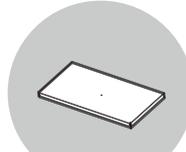
• Outer covers box (Large)



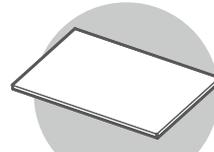
Front door :  
left/right (1 each)



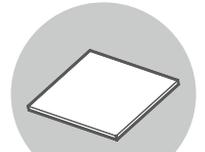
Side cover R1 : 1



Side cover R2 : 1

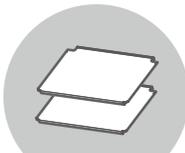


Side cover L1 : 1

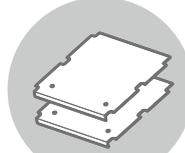


Side cover L2 : 1

• Outer covers box (Small)

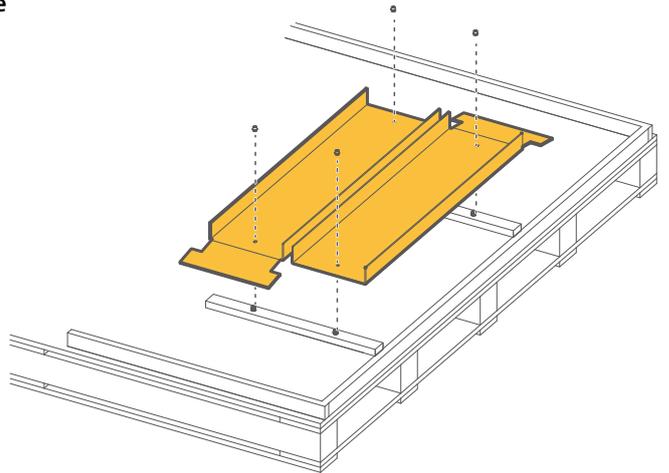


Stand top cover : 2

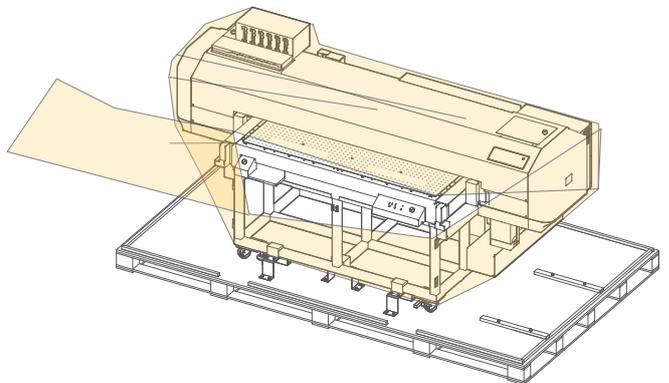


Stand bottom cover : 2

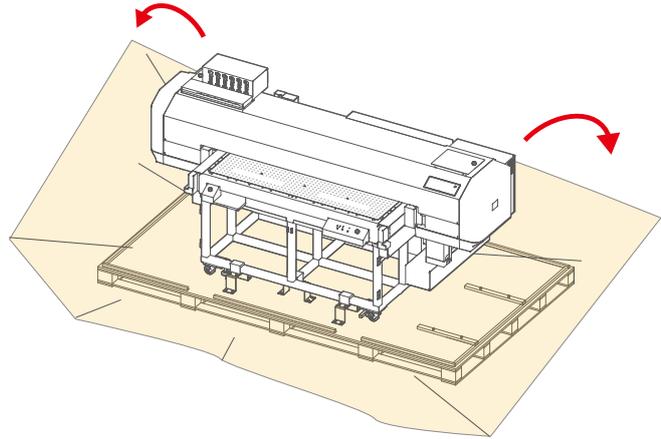
**4** Use the supplied hex wrench to remove the bolts (x4) and remove the two pieces of ramps.



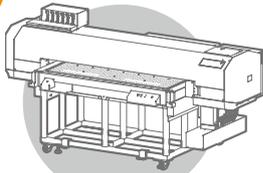
**5** Remove the stretch film wrapping around the printer.



**6** Unwrap the plastic sheet covering the printer.



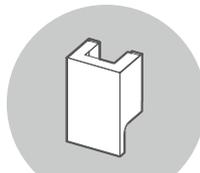
**7** Check that the following items are included.



**Printer : 1**



**Waste ink tank : 1**  
(attached to the right side of printer)



**Waste ink tank cover : 1**  
(attached to the right side of printer)

Check before installation

Unpacking

Installing the printer

Leveling the printer

Attaching the dust covers

# Installing the printer

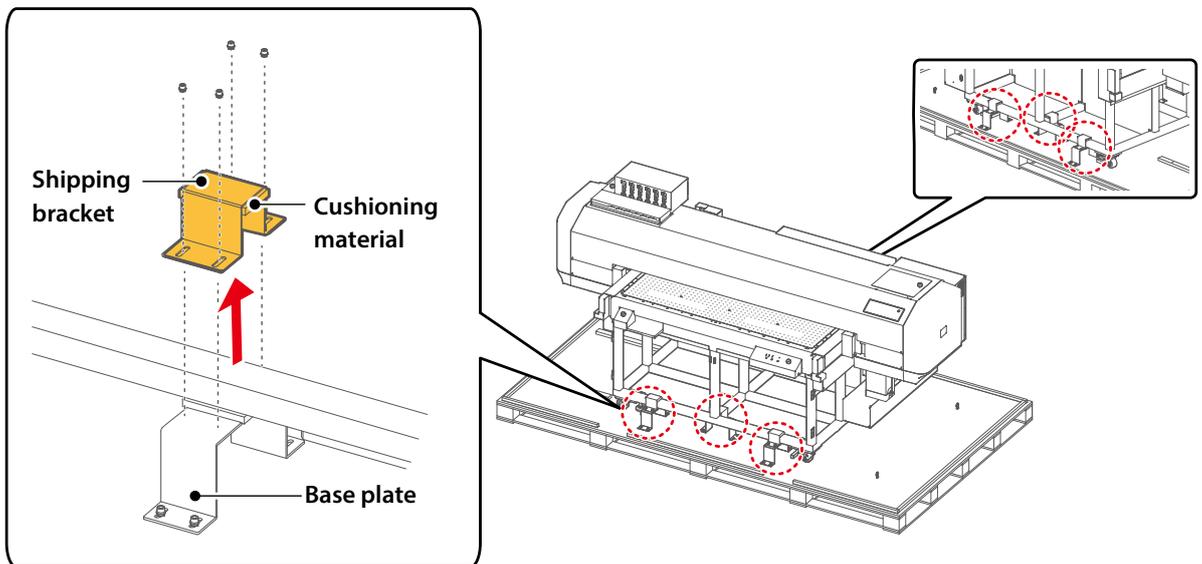
Other than the supplied items, you will need a phillips-head screwdriver for printer installation.

## Moving to the installation site

Follow these steps to remove the shipping brackets and move the printer to the installation site.

1

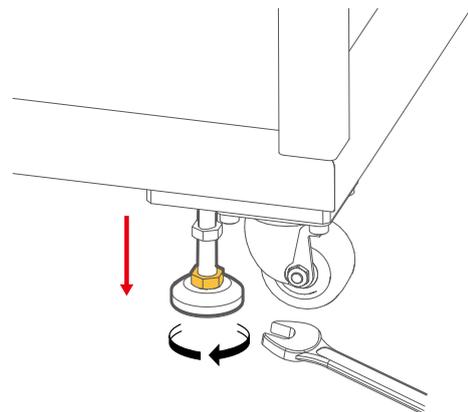
Use the supplied hex wrench to remove screws and remove the shipping brackets (x6) securing the stand to the pallet.



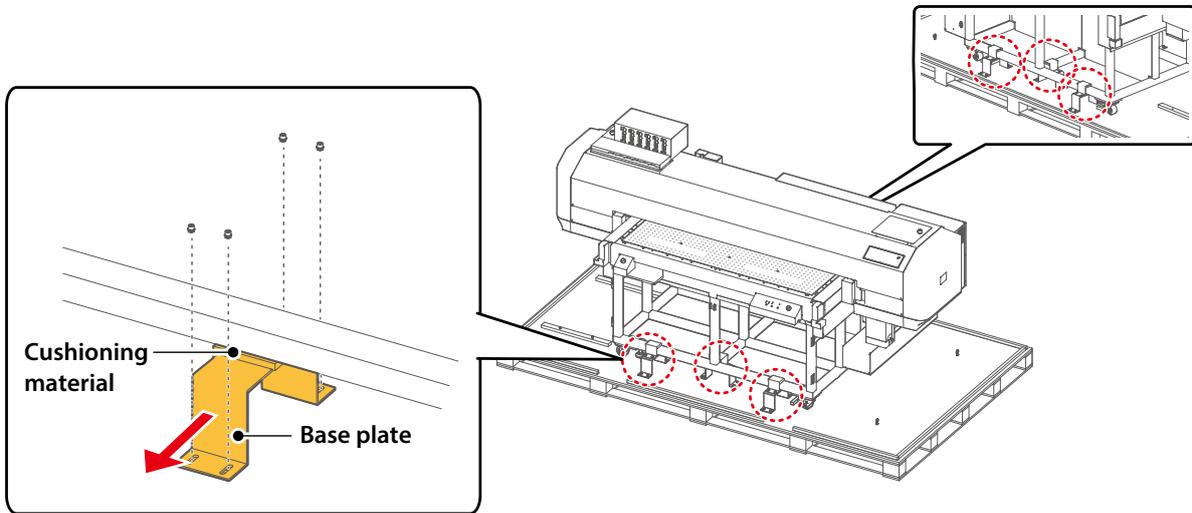
2

Lower the four leveling adjusters until the printer is off the base plates.

- Use the supplied spanner to turn the bottom nut to the direction shown in the illustration.

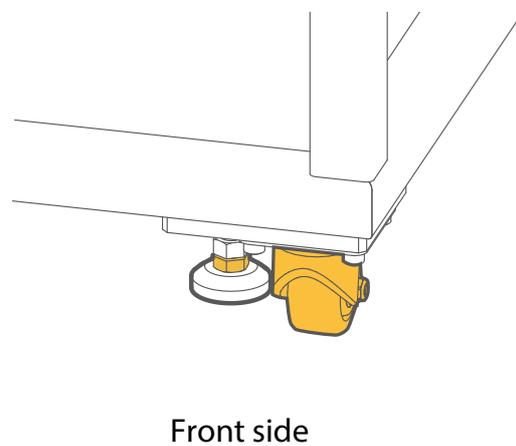
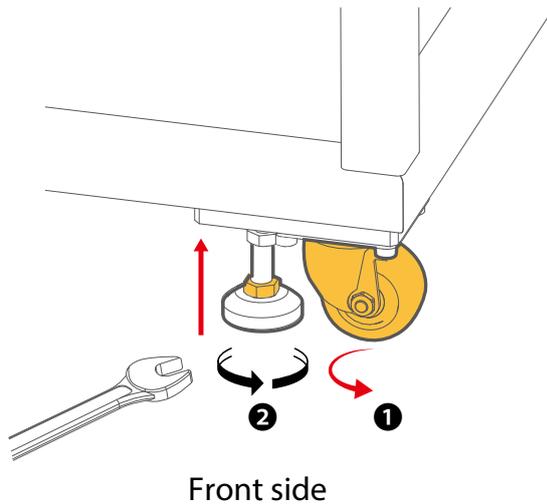


- 3** Use the supplied hex wrench to remove the screws securing to the pallet and remove the base plates and the cushioning materials (x6).



- 4** Raise the four leveling adjusters to their highest position so that the casters touch the pallet.
- First, turn the casters (x4) towards the direction you wish to move the printer (printer front side) ①.
  - Use the supplied spanner to turn the bottom nuts to the direction shown in the illustration ②.

**Important!**  
 Make sure to raise the leveling adjusters until the top and bottom nuts touch the bottom frame of the stand. Failure to do so could damage the adjusters when moving the printer.



Check before installation

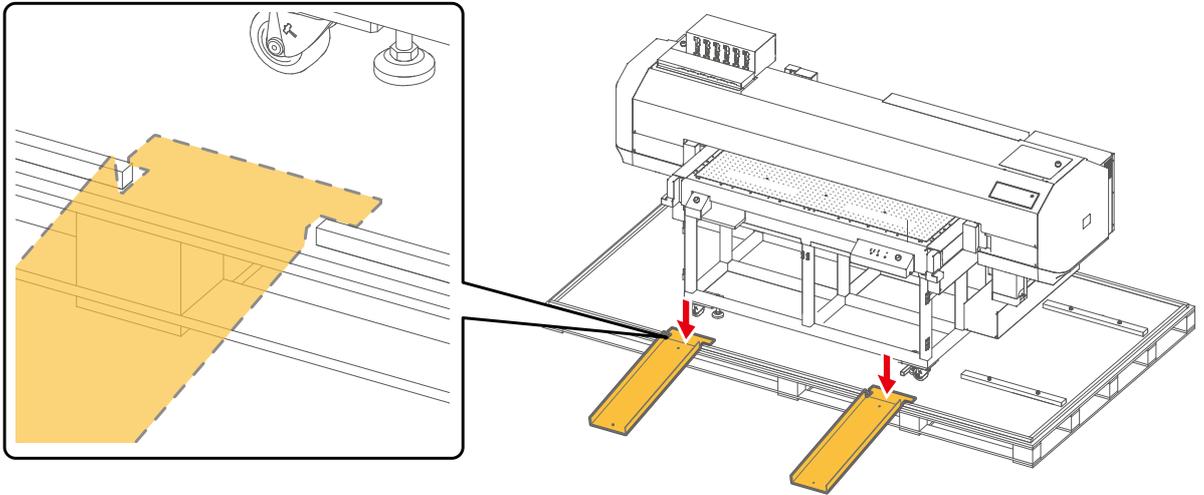
Unpacking

Installing the printer

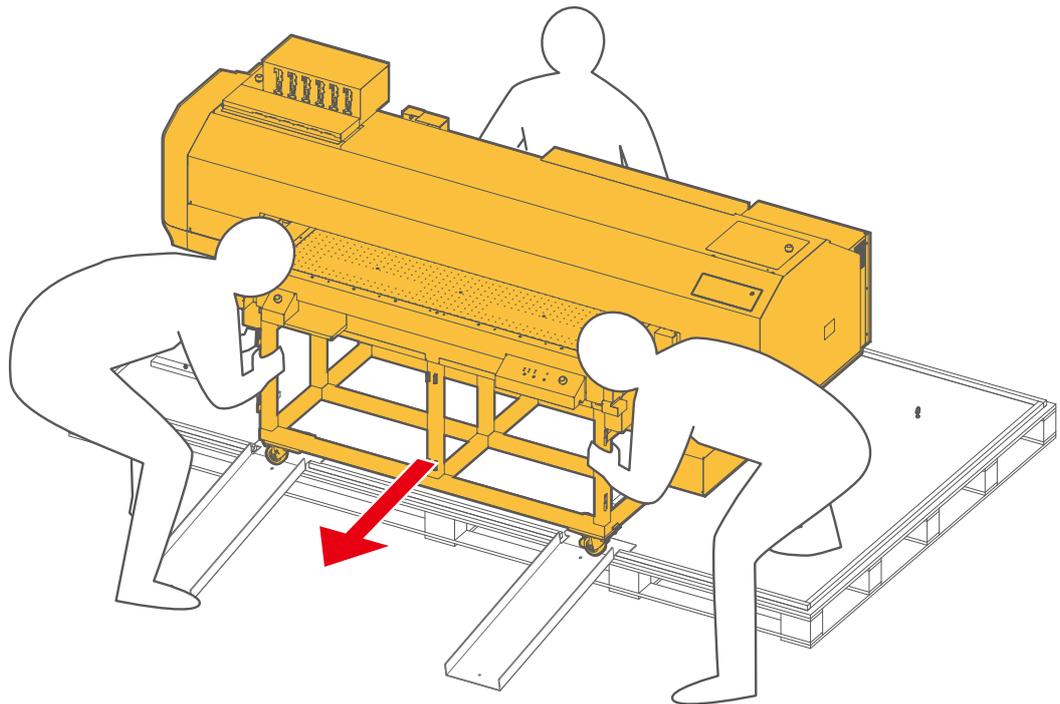
Leveling the printer

Attaching the dust covers

- 5 Align the two ramps with the grooves on the pallet and place them in the front side of the printer as shown.



- 6 Carefully and slowly move the printer down the ramps to unload from the pallet. When unloading, make sure the casters are on the ramps.



**Caution**

- When moving the printer, make sure to grasp the frame of the stand. Applying excess load to the printer could cause malfunction.
- The printer may start to move suddenly when casters are on the slope of the ramps. If you are supporting on the front side of the printer, pay attention to the printer movement.

## Removing protective materials and shipping brackets

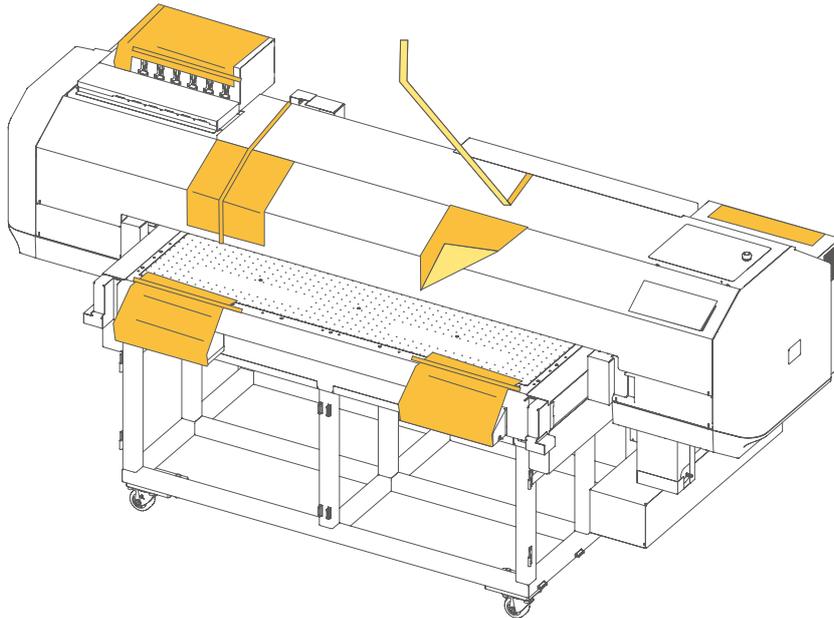
Follow these steps to remove protective materials, tapes and shipping brackets.

### Important!

You will need the shipping brackets and screws removed from the printer for transporting. Please keep them for reuse.

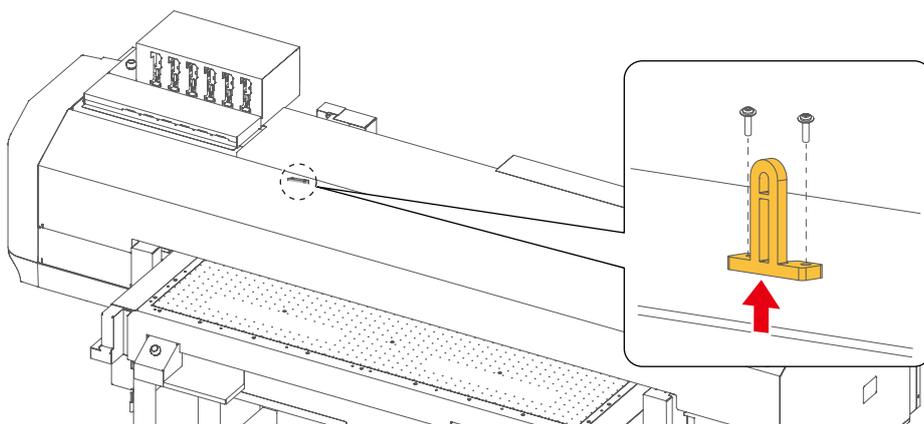
1

Remove tapes and protective materials attached on the printer's exterior.



2

Remove the two screws and remove the front cover lock (the part that the red vinyl tie is attached).



### Important!

Make sure to remove the front cover lock before opening the front cover. Failure to do so could cause damage to the cover.

Check before installation

Unpacking

Installing the printer

Leveling the printer

Attaching the dust covers

Check before installation

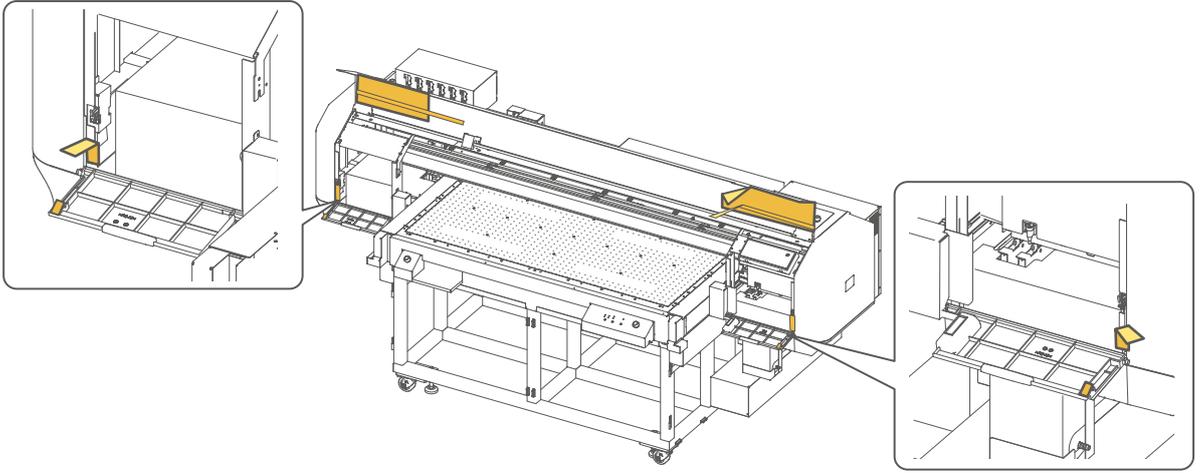
Unpacking

Installing the printer

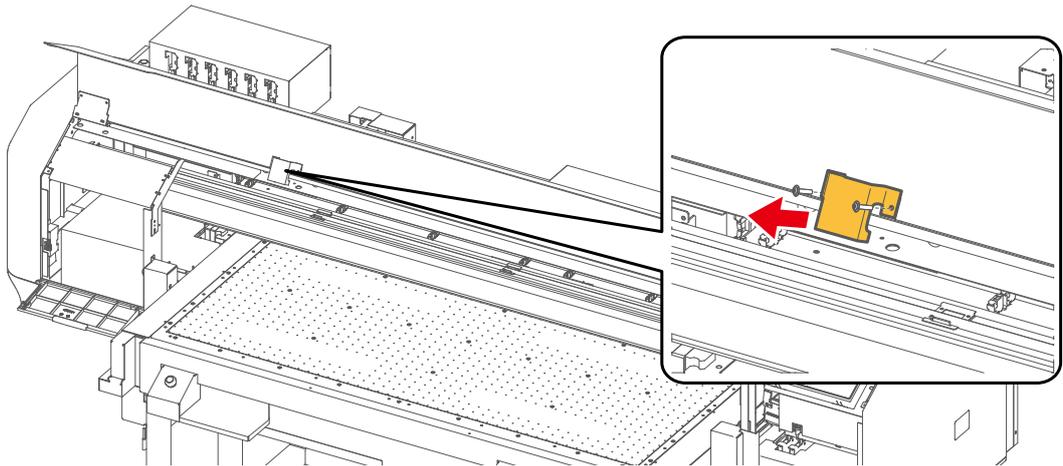
Leveling the printer

Attaching the dust covers

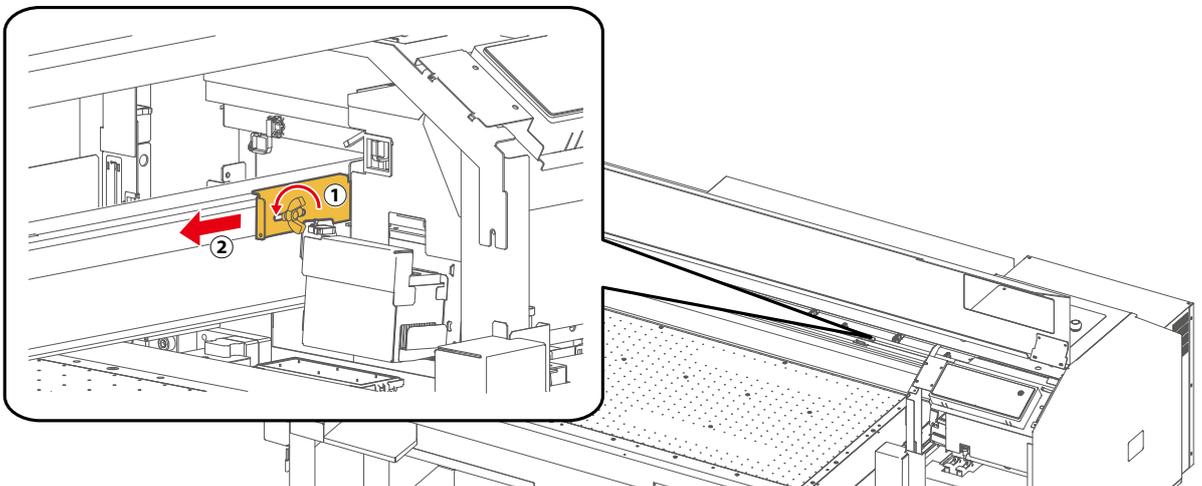
**3** Open the front cover and the maintenance covers and remove the tapes and protective materials.



**4** Remove the two screws and remove the shipping bracket from the front cover.



**5** Loosen the wing bolt and remove the shipping bracket (the part that the red vinyl tie is attached) together with the wing bolt from the carriage.



- 6** Remove tapes and remove the protective material attached inside the front cover.



**Important!**

Do not touch the T fence (clear parts) when removing the protective material. Deformation of T fence will affect print quality.

- 7** Remove all the tapes attached to the printer and close the front cover and the maintenance covers.

Check before  
installation

Unpacking

Installing the printer

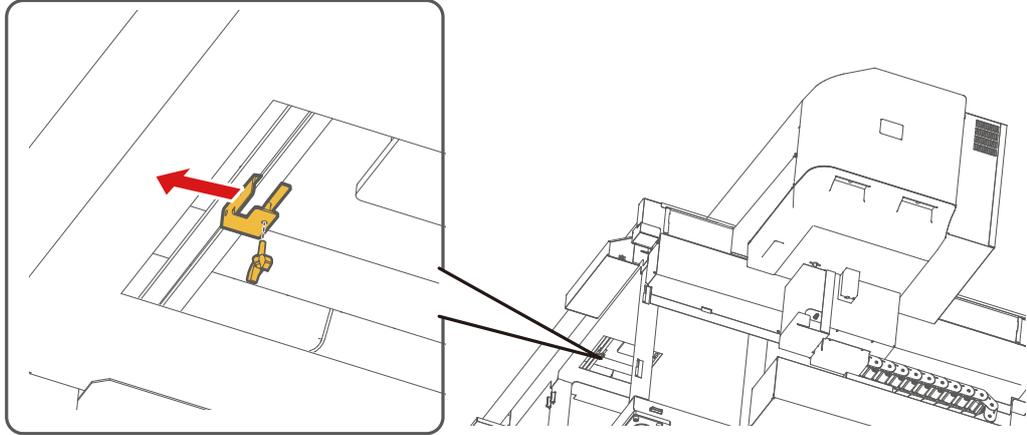
Leveling the printer

Attaching the  
dust covers

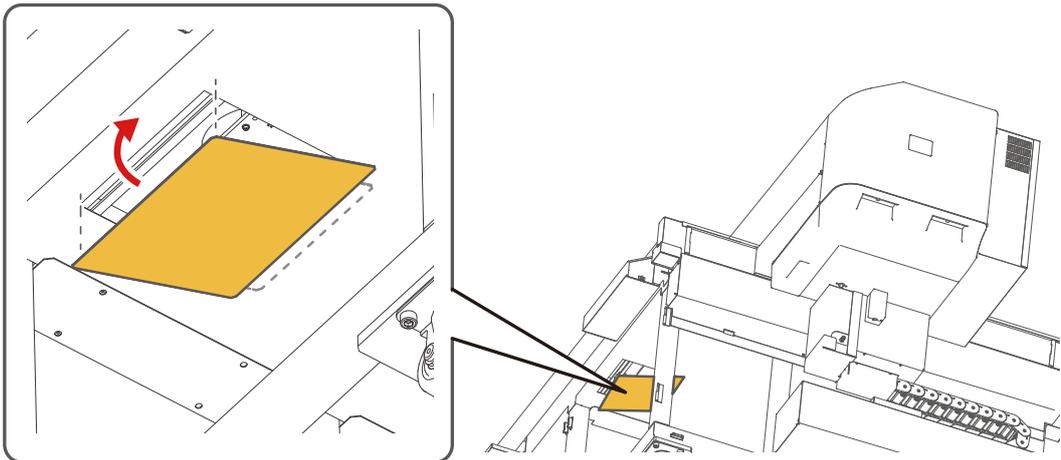
8

Remove the shipping bracket (the part that the red vinyl tie is attached) securing the timing belt in the vacuum fan.

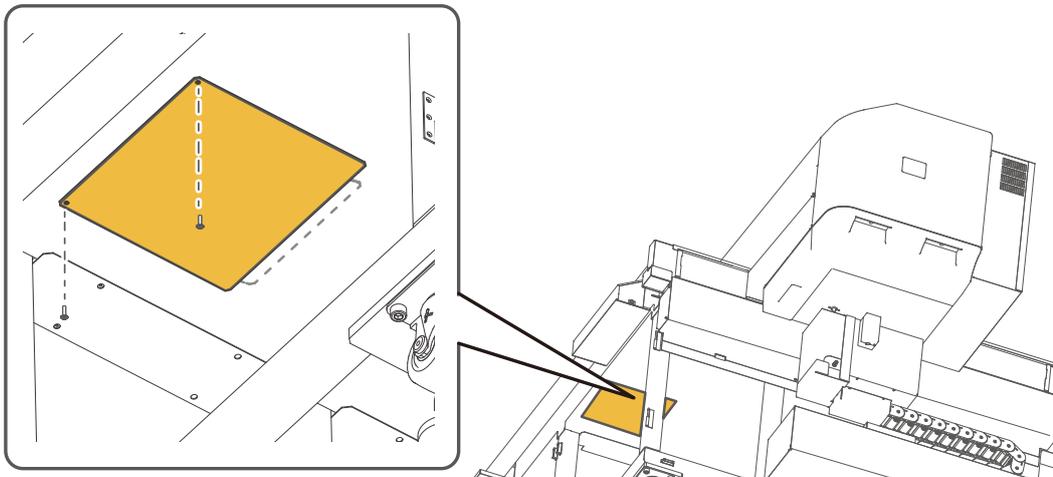
- Remove the wing bolt and remove the shipping bracket from the timing belt.



- Insert the side of the vacuum fan cover that has cut out the corners into the hole as shown, push it against the edge of the hole and then close the cover.

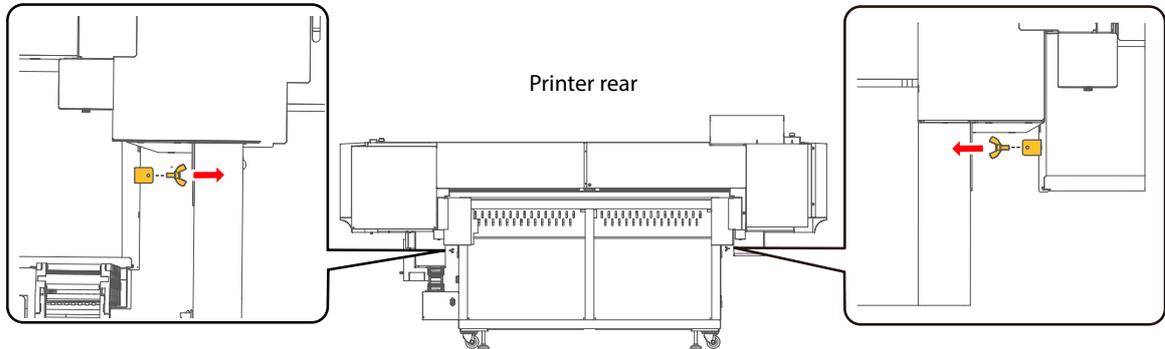


- Use the supplied screws (x2) to attach the vacuum fan cover to the printer.



9

Loosen the wing bolts and remove the two shipping brackets for worm drive (the parts that the red vinyl tie is attached) together with the wing bolts.



**Important!**

Make sure to remove the shipping brackets for worm drive from the printer. Turning the printer on without removal will cause damage to the printer.

Check before installation

Unpacking

Installing the printer

Leveling the printer

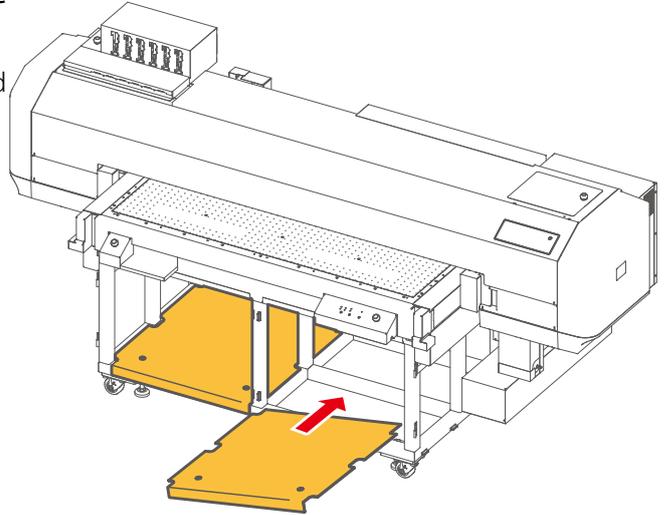
Attaching the dust covers

## Attaching the outer covers

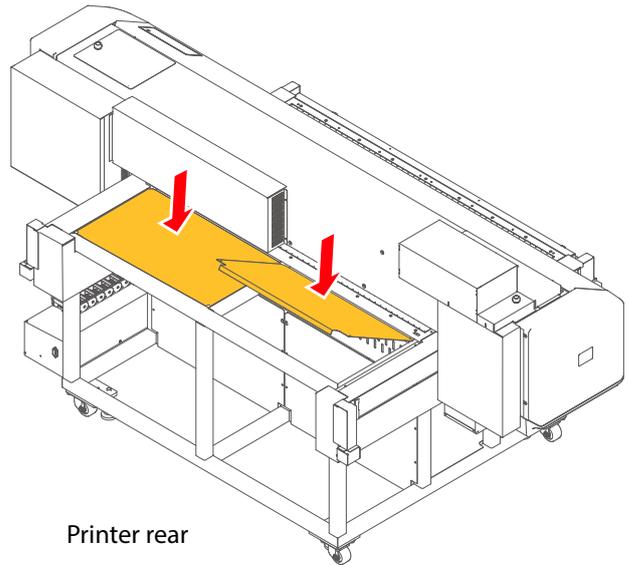
Follow these steps to attach the covers and the front doors to the stand.

### 1 Attach the two stand bottom covers to the stand.

- Tilt the cover to insert under the table and align with the bottom frame of the stand.



### 2 Attach the two stand top covers to the stand.

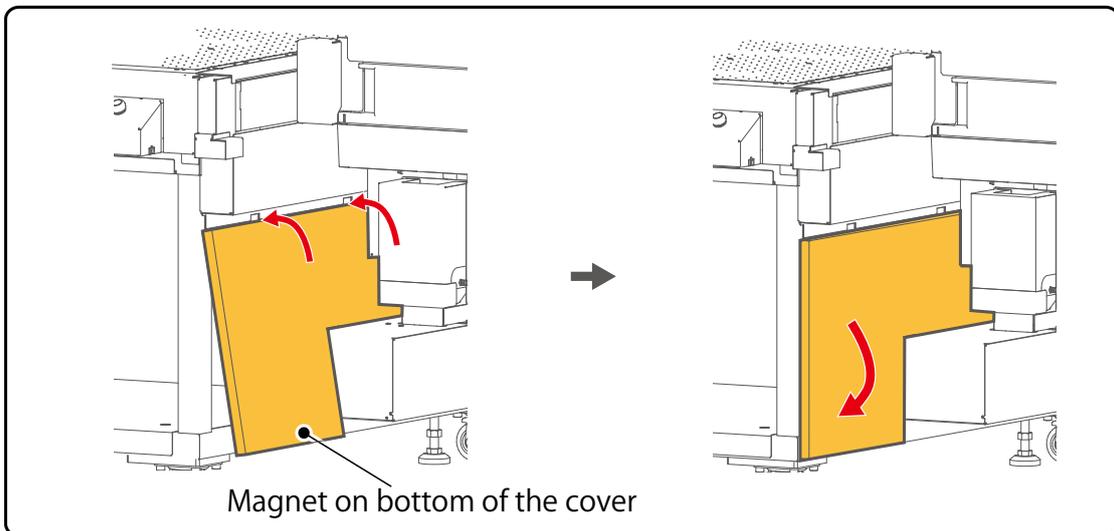
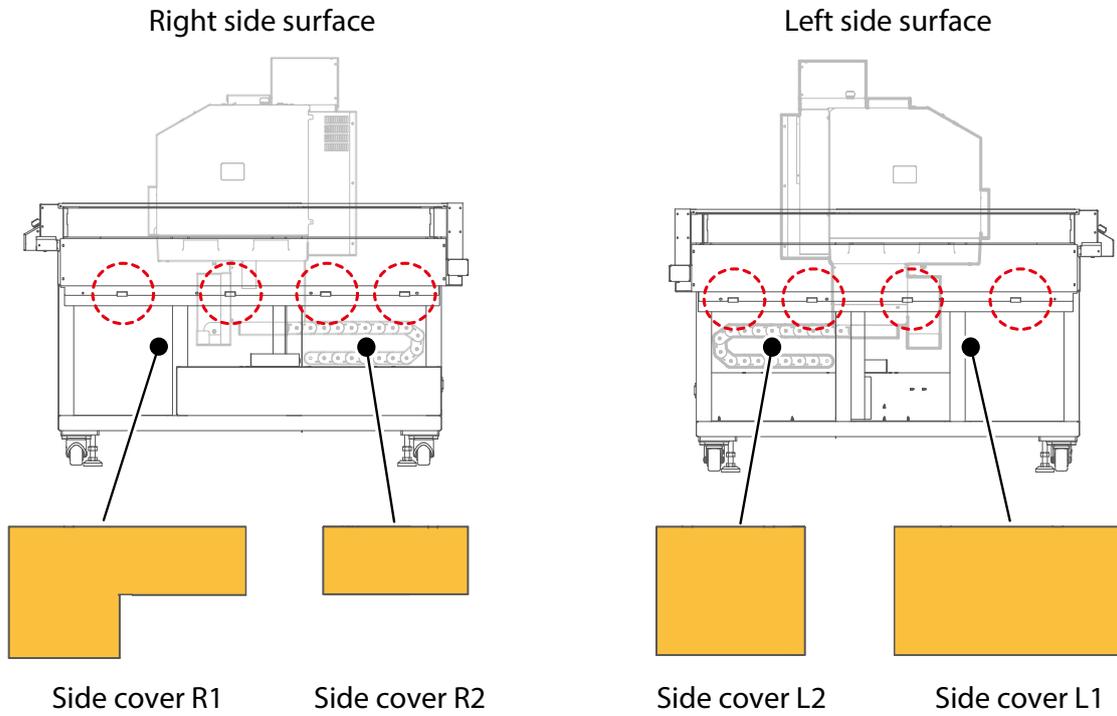


Printer rear

3

Attach the side covers (x4) to the left and right sides of the stand.

- Hook the top of the cover to the hole on the side of the printer.
- Stick the bottom of the cover to the printer with magnet.



Check before installation

Unpacking

Installing the printer

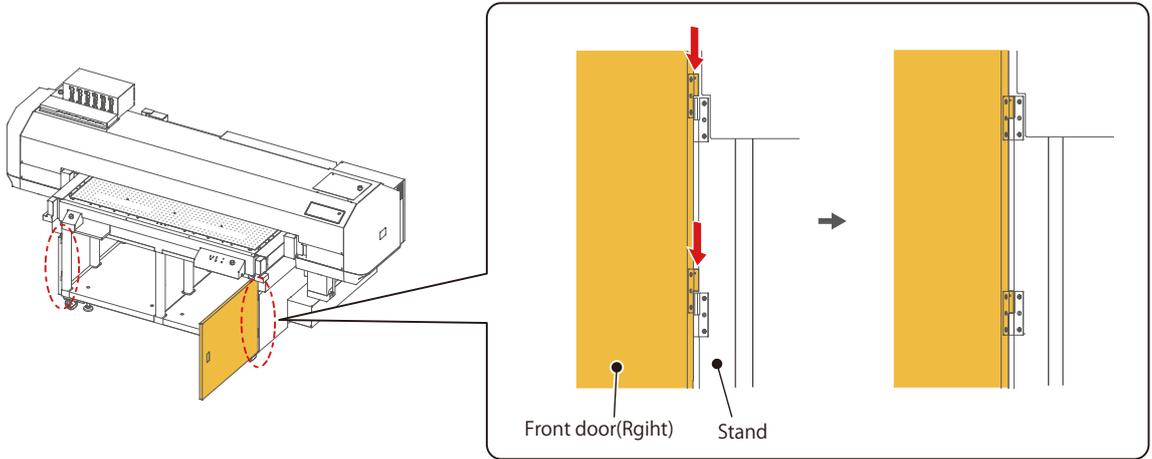
Leveling the printer

Attaching the dust covers

4

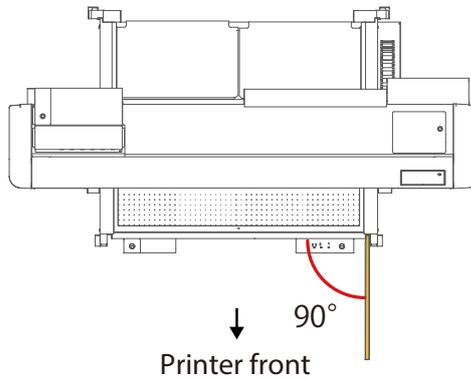
Attach the two front doors to the front side of the stand.

- Insert the hinge pins attached on the top and bottom of the front door into the hinge holes on the stand.
- The following illustration is the example of the front door on the right.

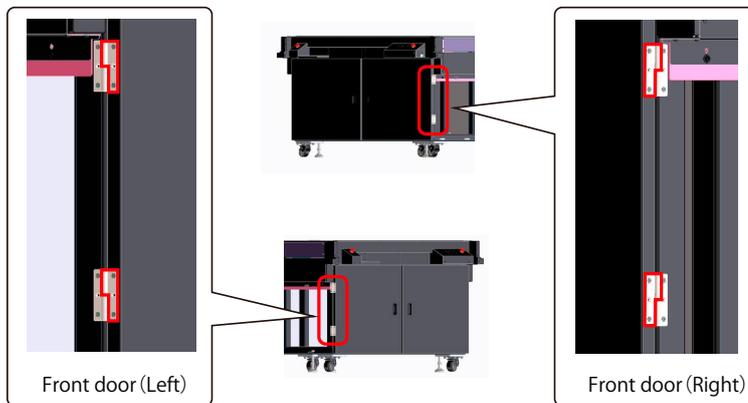


**Important!**

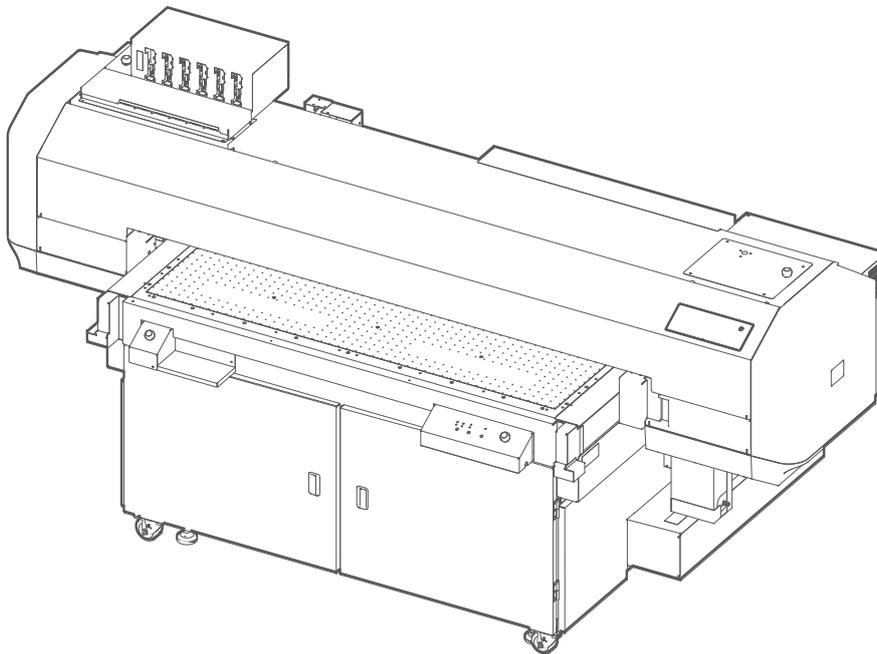
- When inserting and removing hinge pins, make sure to open the front door 90 degrees.



- The hinges on the left and right doors have different shape. Make sure to install them in the correct orientation.



**5** Outer cover installation is now finished.



## Attaching the signal tower light and the foot switch

After outer covers are attached to the printer, you will install the signal tower light and the foot switch. For the procedures, see the installation guide included in each packaging box.

Check before installation

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Attaching the dust covers

# Leveling the printer

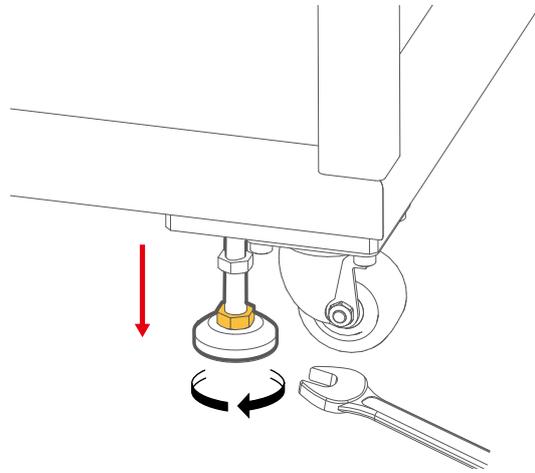
## Checking and leveling the printer

Follow these steps to check and level the printer.

**1** Check that the front cover is closed.

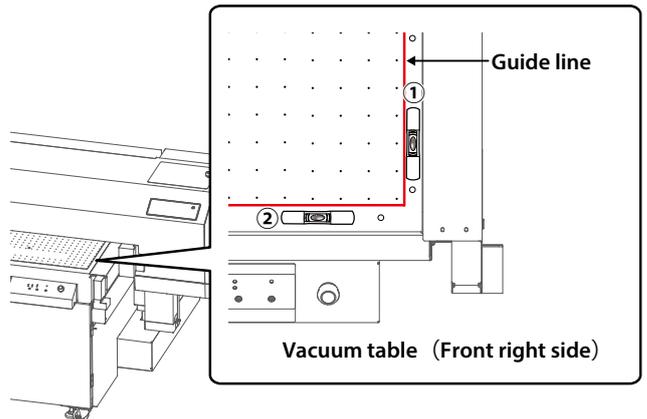
**2** Lower the three leveling adjusters (two on the rear side of the printer and one on the front right of the printer) until the casters are slightly off the floor.

- Use the supplied spanner to turn the bottom nut to adjust.



**3** Use the supplied level and check the levelness at the front right corner of the table.

- Set the level outside of the guide line on the table.
- Change the direction of the level to check the levelness at the right side [1] and front side [2] of the table.



Check before installation

Unpacking

Installing the printer

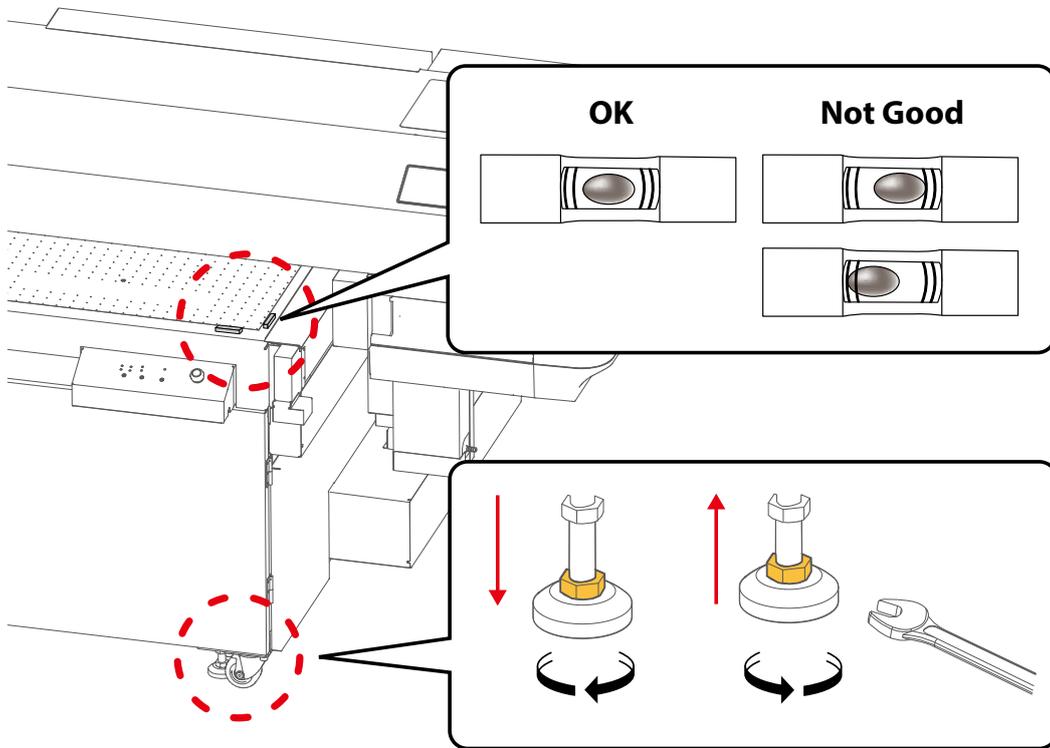
Leveling the printer

Attaching the dust covers

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If not level, adjust the leveling adjuster.

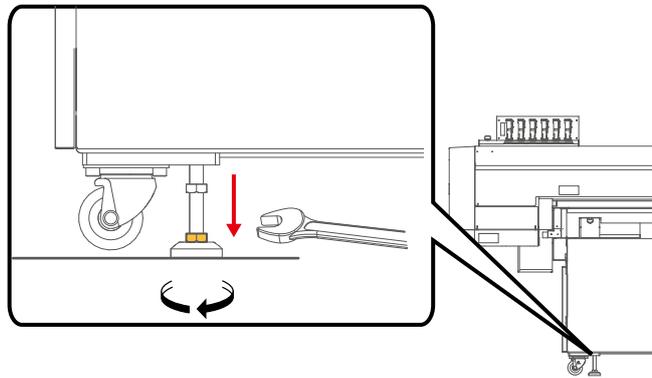
- Use the front right adjuster to level the table.



5

Once you have checked that the table is level, lower the front left adjuster until it touches the floor.

- Use the supplied spanner to turn the bottom nut to adjust

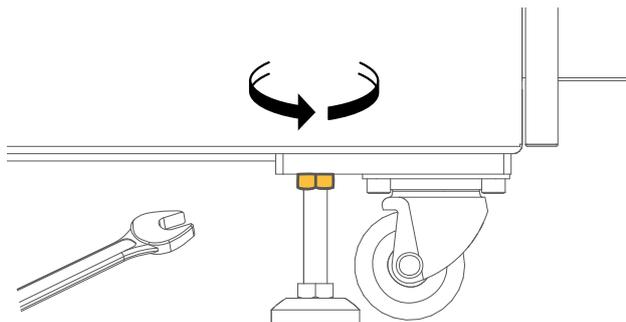


6

Use the spanner to tighten the top nuts of all four adjusters until they touch the bottom frame of the stand.

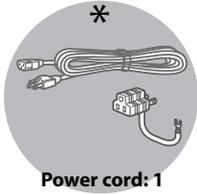
**Note**

Check that all four top nuts are firmly tightened.  
Levelness cannot be guaranteed if not tightened.



# Attaching the dust covers

You will need the following item for attaching the dust covers.



### Note

Power cord is an optional accessory.



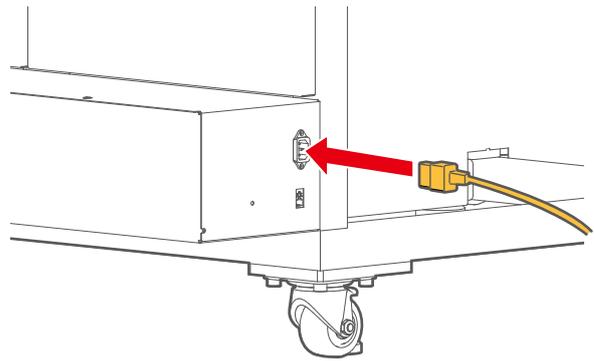
### Warning

Make sure to use the designated power cord.  
Failure to do so could cause electric shock or fire.

Follow these steps to attach the dust cover to the sides of the vacuum table.

1

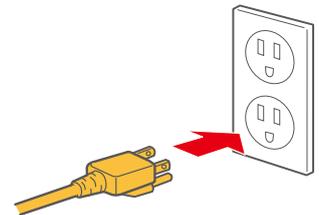
Connect the power cord to the printer.



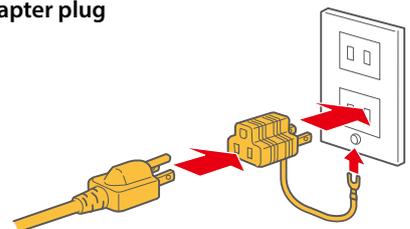
2

Plug the power cord into a wall outlet.

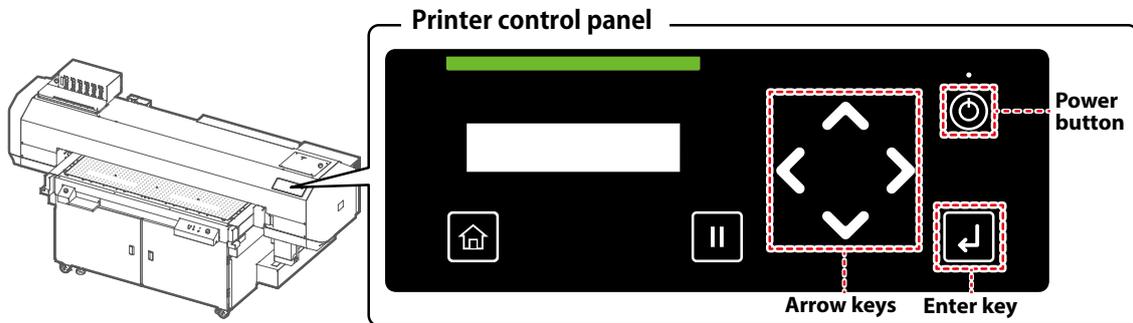
3-pin plug



2-pin to 3-pin adapter plug

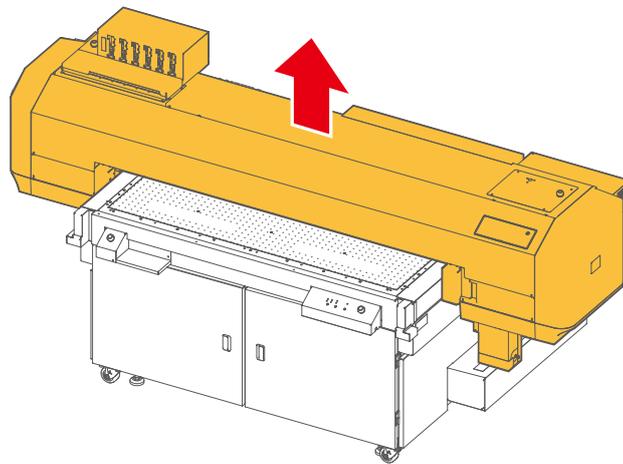


- 3 From the printer control panel, press and hold the Power button (  ) for more than two seconds.
  - When the message [Welcome] appears, release the button.



- 4 When [Attach dust cover Start -> Enter] appears on the control panel, tap  Enter key.

- 5 When [Gantry moves up OK -> Enter] appears, tap  Enter key.
  - The message [Please Wait] appears and the gantry goes up.

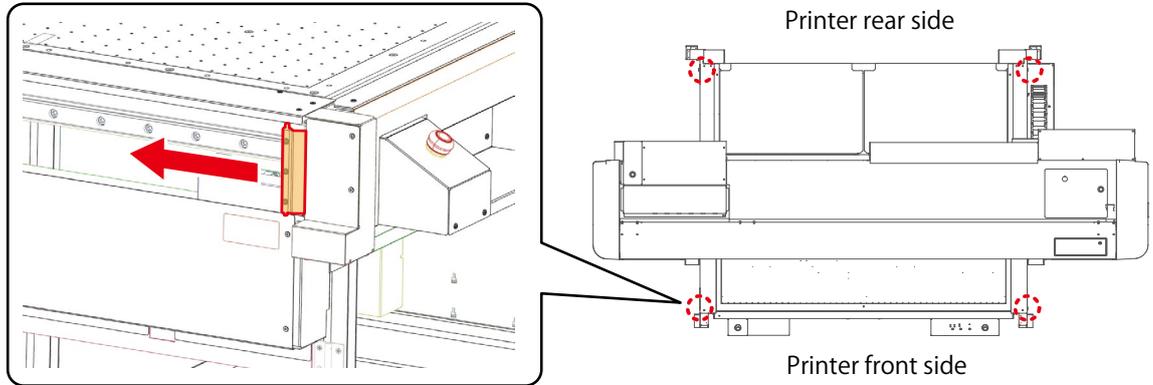


- 6 After the gantry stops, the message [Attach dust cover OK -> Enter] will appear on the control panel. You can start attaching the dust cover.

7

The dust covers are stored in each corner of the table (x4). Pull the cover from left to right or right to left.

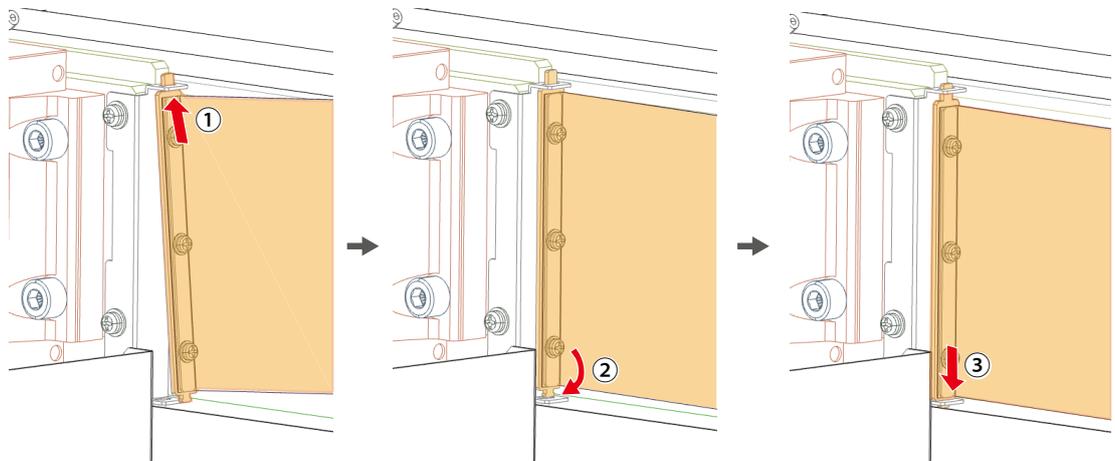
- This illustration shows an example of left front side.



8

Insert the tabs on the top and bottom of the dust cover into the mounting holes on the gantry connecting part.

- Insert the top tab all the way into the top hole (①).
- Align the bottom tab with the bottom hole (②) and then insert it into the hole (③).
- The illustrations below show an example of the left-front side.
- Follow this step to attach the rest of three dust covers.



9

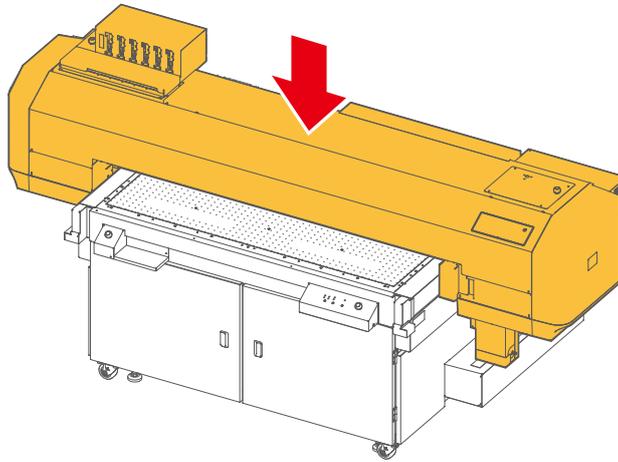
Once all four dust covers are attached, tap  Enter key.

- [Dust Cover attached? No] appears.
- Use  key to select [Dust Cover attached? Yes] and then tap  Enter key.
- [Gantry moves down OK → Enter] appears.

10

Check that there is no object on the vacuum table and confirm surrounding safety. Then tap  Enter key.

- The message [Please Wait] appears and the gantry moves down.



 **Important !**

Before this operation, make sure that there is no object on the vacuum table and confirm surrounding safety. If your body or any object gets caught between the gantry and the table, it will cause injury or damage to the product.

11

Once the gantry stops, the message [Exit this procedure? No] appears.

- Use  key to select [Exit this procedure ? Yes] and tap  Enter key.
- [ Power Off Printer ] appears.

12

Turn off the printer.

- Press and hold the Power button(  ) on the printer control panel for more than two seconds.
- After the message [Power Off] appears, all the keys will turn off and the printer will be powered off.

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