

Safety Precautions

UV INKJET PRINTER

UJV100-160

Safety Precautions

You can also download the latest manual from official website.

MIMAKI ENGINEERING CO., LTD.

<https://mimaki.com/>

D203494-10
Original instructions

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Introduction

Thank you for purchasing the UV inkjet printer UJV100-160.

Thoroughly read this safety precautions (“this document” hereinafter) and make sure you understand its contents to ensure safe and correct use of the product.

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● Disclaimers

- Mimaki Engineering shall accept no liability for any damage occurring directly or indirectly as a result of using the UJV100-160 (hereinafter referred to “this product”) irrespective of whether or not the product was faulty. Mimaki Engineering rejects all liability for damage, whether direct or indirect, resulting from use of this product.
- Mimaki Engineering rejects all liability for damage, whether direct or indirect, attributable to materials created while using this product.
- Using this product in conjunction with devices other than those recommended by Mimaki Engineering may result in fire or accidents. Such incidents are not covered by the warranty. Likewise, Mimaki Engineering rejects all liability for any damage, direct or indirect, arising from such incidents.
- Be sure to use genuine Mimaki Engineering ink and maintenance cleaning solution. Use of other products may cause failures or reduce print quality. Disregarding this precaution will void the warranty. Likewise, Mimaki Engineering rejects all liability for any damage, direct or indirect, arising from such incidents.
- Do not attempt to refill the ink bottles with unauthorized ink. Disregarding this precaution will void the warranty. Likewise, Mimaki Engineering rejects all liability for any damage, direct or indirect, arising from such incidents.
- Avoid using UV-LED units or UV power supply units other than those specified by Mimaki Engineering. Using devices other than genuine Mimaki Engineering devices may result in failure, electric shock, or fire. Disregarding this precaution will void the warranty. Likewise, Mimaki Engineering rejects all liability for any damage, direct or indirect, arising from such incidents.

● TV and radio interference



- This product emits high-frequency electromagnetic radiation while operating. Under certain circumstances, this may result in TV or radio interference. We make no guarantees that this product will not affect special radio or TV equipment.

If you suspect that this product is causing radio or TV interference, check by powering off this product. If the interference disappears when the power is turned off, this product is likely to be the cause of the interference.

Try any of the following solutions or combinations of these solutions:

- Change the orientation of the TV or radio antenna to find a position where interference does not occur.
- Move the TV or radio away from this product.
- Plug the TV or radio into a power outlet on a different power circuit to this product.

● FCC (Federal Communications Commission) regulations

This product has been tested and certified to comply with restrictions applying to Class A digital devices under Part 15 of the FCC regulations. These restrictions are designed to provide suitable protection from harmful interference when the printer is used in commercial environments.

This product may generate, use, or emit radio frequency energy and may cause harmful interference with radio communications if not installed or used in accordance with the operating manual.

Use of this product in residential areas may cause harmful interference. If so, the user is responsible for rectifying such interference.



- Use only the cables recommended by Mimaki Engineering when connecting to this product. Use of other cables may cause the product to exceed the restrictions stipulated by FCC regulations. To maintain compliance with FCC regulations, use the cables recommended by Mimaki Engineering.
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For safe use

About symbol mark

This document uses symbols to indicate operating precautions. To ensure safe and correct use of the machine, make sure you fully understand the meaning of each symbol.

Details		
	Warning	Indicates a potentially hazardous situation in which disregarding the instructions may result in death or serious injury.
	Caution	Indicates a potentially hazardous situation in which disregarding the instructions may result in minor or moderate injury.
	Note	Indicates a potentially hazardous situation in which disregarding the instructions may result in damage to property.
	General warning sign	Indicates something that requires attention. Warning specifics will be indicated within the symbol itself.
	Symbol indicating a mandatory action	Indicates an action that must be carried out. The specifics of the mandatory action will be indicated within the symbol itself.
	General prohibition sign	Indicates a prohibited action. The specifics of the prohibited action will be indicated within the symbol itself.
	Important	Indicates important information related to use of this product.
	Tip	Indicates useful information for reference.
	Reference information	Indicates the corresponding page for related information. Click the text to display the corresponding page.

Usage Precautions

● In the event of abnormal conditions

WARNING



- In the event of abnormal conditions such as smoke or unusual odor, turn off the main power immediately and unplug the power cable. Continuing to use the product under these conditions may result in failure, electric shock, or fire. Once you have confirmed that smoke is no longer being emitted, contact your local dealer or our service office. Never attempt to repair the product yourself. Doing so is hazardous.

CAUTION



- Immediately wipe off any ink, maintenance washing liquid, waste ink, or other liquid used with the product that contacts your skin. Wash using soap and rinse with plenty of water. Failure to wash off liquid may result in skin inflammation. If your skin becomes irritated or painful, seek medical attention immediately.
- If ink, maintenance washing liquid, waste ink, or any other liquid used in the product comes into contact with your eyes, rinse immediately with plenty of clean water. Rinse for at least 15 minutes. If you wear contact lenses and they can be easily removed, remove after rinsing for at least 15 minutes with clean water. Be sure to rinse the undersides of your eyelids. Failure to rinse off liquid may result in blindness or impaired vision. If your eyes become irritated or painful, seek medical attention immediately.
- If ink, maintenance washing liquid, waste ink, or any other liquid used in the product enters your mouth or is swallowed, gargle with water immediately. Do not induce vomiting. Seek medical attention promptly. Inducing vomiting may cause liquid to enter the airway.
- If a large amount of vapor is inhaled, move to a well-ventilated area, keep warm, and rest in a posture that allows easy breathing. If the condition does not improve, seek medical attention promptly.

NOTICE



- If an ink leak occurs, turn off the main power immediately and unplug the power cable. Contact your local dealer or our service office.

● Power supply precautions

WARNING



- Use the included power cable. Doing so may result in machine failure, electric shock, or fire. Do not use the power cable with other electronic devices.
- Be sure to hold the plug properly when removing the power cable. Pulling directly on the power cable may damage the cable, resulting in machine failure, electric shock, or fire.
- Do not use the power plug with dust on it. Doing so may result in machine failure, electric shock, or fire.
- Touching the blade of the power plug with metal etc. Disregarding this precaution may result in machine failure, electric shock, or fire.
- Do not attempt to modify the cable. Avoid damaging the cable. Avoid placing heavy objects on the power cable or pulling on or exposing the cable to heat. Doing so may damage the cable, resulting in fire or electric shocks.
- Do not use extension cords or multi-outlet extension cord. Doing so may result in machine failure, electric shock, or fire.
- Do not use if the power cable appears to be damaged or the core wire has an exposed or broken core. Doing so may result in machine failure, electric shock, or fire.



- Do not handle the power plug with wet hands. There is a risk of electric shock.

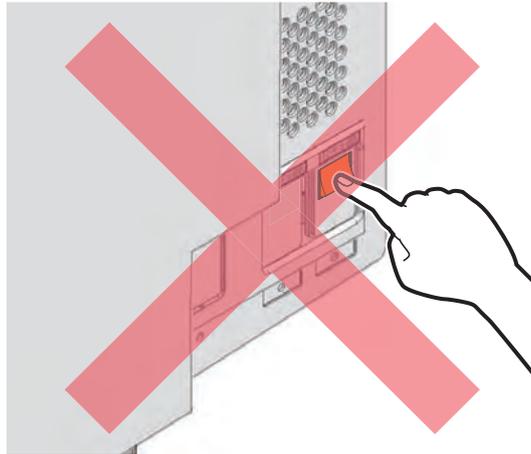


- Connect the power cable plug to a grounded (earthed) polarity outlet. Disregarding this precaution may result in machine failure, electric shock, or fire.
- When installing electrical outlets, perform grounding work to prevent electric shock. All electrical work must be done by a licensed electrician.
- Perform grounding work.

NOTICE



- Do not turn off the main power supply. Turning off the main power supply disables the automatic maintenance function (including nozzle clogging prevention function and ink discharge channel cleaning function) and may result in print defects (e.g., nozzle clogging, deflection) or other faults.



- Use this machine with the specified power specifications.
- Be sure to connect the power cable to a power outlet near the machine. Insert the power plug blade securely.
- When connecting the power cable, check the input voltage of the power outlet and the capacity of the breaker. Also, connect each cable to a separate power source with an independent breaker. Connecting to power outlets linked with the same breaker may trip the breaker.

● Caution regarding moving parts

⚠ CAUTION



- Keep parts of the body such as the face and hands and clothing (e.g., loose clothing and accessories) that may impede work away from the product. Failure to do so may result in injury. Long hair should be tied back.

● Do not disassemble or repair

⚠ WARNING



- Do not attempt to disassemble or repair this product. Disregarding this precaution may result in fire, electric shock, or fire.

● Precautions when handling the cutter

⚠ CAUTION



- Avoid touching the cutter blade. Doing so may lead to injury.

● Precautions for ultraviolet (UV) light and the UV-LED unit

WARNING



- Do not place combustible materials underneath the UV-LED unit. Disregarding this precaution may result in fire or smoldering.
- Do not cover the UV-LED unit with paper or cloth. Disregarding this precaution may result in fire or smoldering.



- Small amounts of ultraviolet light may leak from around the UV-LED unit. Take precautions to avoid exposing the skin and eyes to ultraviolet light. Wear gloves, long-sleeved clothing, face shields, and UV safety glasses.
 - (1) Exposure to UV light may result in skin inflammation. Even if no inflammation occurs, extended or repeated exposure may lead to chronic problems.
 - Acute problems: Inflammation
 - Chronic problems: Skin cancer, wrinkles, blotches
 - (2) Looking directly at the lamp while the lamp is on may result in eye pain or damage to eyesight. Even if no eye pain occurs, extended or repeated exposure may lead to chronic problems.
 - Acute problems: Ultraviolet keratitis, conjunctivitis, discomfort, pain, watery eyes
 - Chronic problems: Pterygium, cataracts

CAUTION



- The UV-LED unit becomes extremely hot. Turn off the LED and wait for the unit to cool before attempting maintenance work.



- Do not expose the skin directly or indirectly to light from the UV-LED unit. The UV-LED unit emits ultraviolet (UV) light. Exposure may result in skin inflammation.



- Be sure to use the UV safety glasses provided. Disregarding this precaution may result in eye pain or damage to eyesight.

NOTICE



- Avoid scratching or subjecting the UV-LED unit to excessive force. Disregarding this precaution may result in failure.
- Avoid touching the glass on the underside of the UV-LED unit with bare hands. Disregarding this precaution may impair UV ink curing. If the glass becomes dirty, wipe clean using a soft, clean cloth moistened with ethanol. Be careful to keep ethanol from splashing on the covers while cleaning. Contact with ethanol may damage the covers.

● Disposing of the product

CAUTION



- Please contact your local retailer or service agent.
- If you intend to dispose of the product yourself, contact an industrial waste disposal operator or dispose of the product in accordance with the local laws and regulations.

Ink or any Other Liquid Used with the Product

Precautions regarding ink are indicated on the Ink bottle. Thoroughly read and make sure you understand these precautions before use.

WARNING



- Take appropriate measures to prevent leakage or discharge into bodies of water or domestic waste water systems. Some constituents are toxic to aquatic life.

CAUTION



- Be sure to read the safety data sheet (SDS) before use.
<https://mimaki.com/supply/sds/>



- Always wear safety glasses, gloves, and the mask provided when handling ink, maintenance cleaning solution, waste ink, or other solutions used in this machine. Failure to do so may result in ink or other liquids splashing and coming into contact with the skin, eyes, or mouth.



- Do not subject Ink bottle to strong impact or violent shaking/agitation. Do not attempt to refill the unauthorized ink. Disregarding this precaution may result in ink leaking and coming into contact with the skin, eyes, or mouth.



- Do not disassemble Ink bottle. Disregarding this precaution may result in ink leaking and coming into contact with the skin, eyes, or mouth.



- Avoid storing consumable items in locations accessible to children.



- To dispose of the ink tank, contact an industrial waste disposal operator or dispose of the ink tank in accordance with the local laws and regulations.

NOTICE



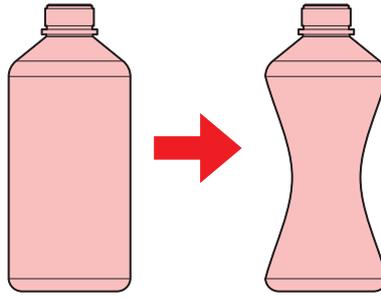
- Do not use the ink, washing liquid, or any other liquid used with the product in other printers. Disregarding this precaution may result in damage to the printer.
- Do not touch the contacts on the ink IC chips or allow them to become dirty. Disregarding this precaution may result in chip failure.



- Store in a low location not more than 1 m above the ground. Disregarding this precaution may result in ink, washing liquid, or any other liquid used with the product splashing if dropped.
- Store in sealed containers.
- Store in a cool, dark location.
 - (1) When moving ink from cold to warm locations, allow to stand for at least three hours at the location where it will be used. Note that using ink after it has frozen may result in changes in ink composition and affect print quality. Store ink in a location where it will not freeze.
 - (2) Open ink immediately before use. Use as quickly as possible after opening. Print quality may be reduced if considerable time elapses after the ink is first opened.



- Ink chips corresponding to different types will not function.
- Ink bottles mounted in the product may become indented. This will not affect operation.



Restrictions of the Product

The ink expiration date is indicated on the Ink bottle. Expired ink may cause print defects or alter the color tone. Printing is possible even if the ink has passed its expiration date. However, we recommend replacing with new ink and/or using the ink as quickly as possible.

Example: The expiration date is April 2020

May: Replace with new ink or use up as quickly as possible. Printing is possible.

June: Replace with new ink or use up as quickly as possible. Printing is possible.

July: Printing is not possible.



- You will see a message on the display.
-

Installation Precautions

WARNING



- Do not install this machine in environments where flammable substances (e.g., gasoline, flammable spray, alcohol, thinner, lacquer, powder) are present. This machine is not explosion-proof. There is a risk of explosion.



- Do not install this machine in locations where open flames are present. Disregarding this precaution may result in ink ignition.
- Do not place vases, pot plants, cups, cosmetics, containers of chemicals or water, or small metal objects on top of this machine. Failure, electric shock, or fire may result if liquids or objects fall inside.



- Do not install this machine in humid locations or locations where it may be exposed to splashing water. Disregarding this precaution may result in fire or electric shock.



- Keep children away from this machine.

CAUTION



- A ventilation system must be provided if this machine is installed in a poorly ventilated area or sealed room.
- Note the following points when installing an extractor outlet:
 - (1) The extractor outlet must be installed in accordance with applicable local EHS (environmental, health, and safety) guidelines.
 - (2) If the extractor outlet is fitted with a shutoff valve, the valve must be open when this machine is in use.

NOTICE



- Do not install this machine in locations where dust or powder is present. Failure or printing defects may result (e.g., nozzle clogging, deflection) if dust gets inside this machine.
- Do not install this machine in locations exposed to drafts (e.g., air conditioning). Disregarding this precaution may result in dust or powder getting inside this machine.
- Do not install this machine in unstable locations or locations subject to vibration. Disregarding this precaution may result in failure or printing defects.
- Do not install this machine in locations exposed to direct sunlight.
- Do not install this machine in locations subject to sudden temperature changes. Disregarding this precaution may result in printing defects (e.g., nozzle clogging, deflection).
- Do not install this machine in locations exposed to excessive noise from large machinery.



- Permissible operating conditions: 20 °C to 30 °C (68 °F to 86 °F), 35 %RH to 65 %RH (no condensation)
- Guaranteed accuracy temperature range: 20 °C to 25 °C (68 °F to 77°F)

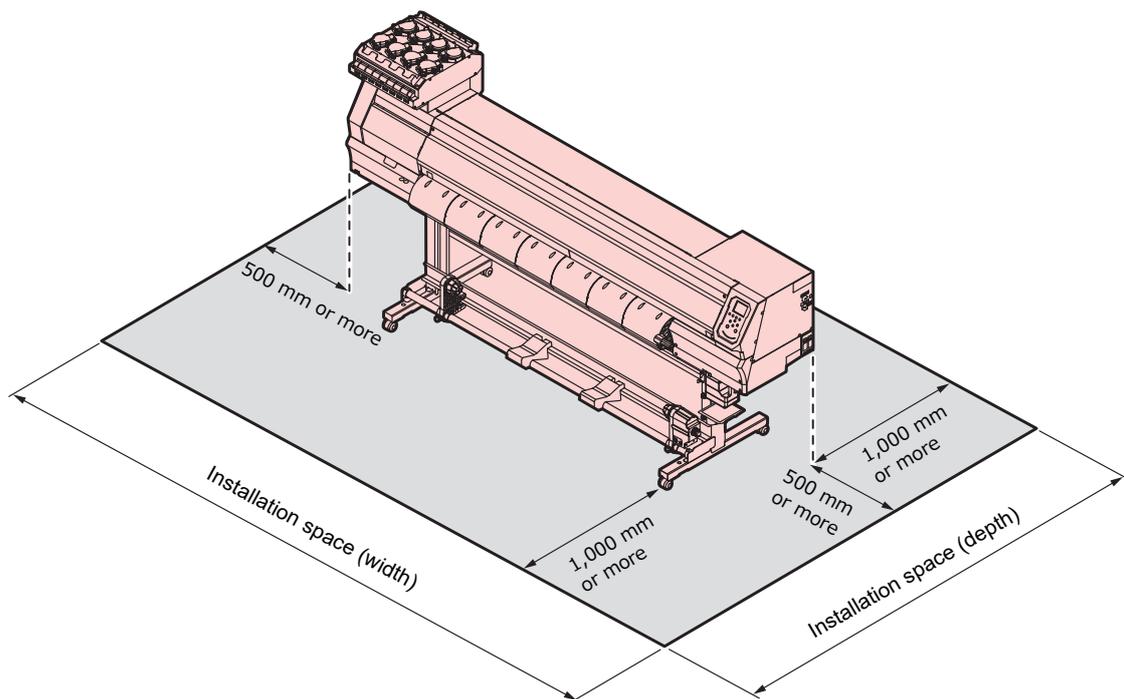
Installation Space

Provide the following space around the machine to allow safe and proper replacement of ink and media:

Item	UJV100-160
Width ^{*1}	At least 3,775 mm (2,775 mm)
Depth ^{*1}	At least 2,700 mm (700 mm)
Height ^{*1, *2}	(1,392 mm)
Weight	167 kg

*1. The figures in parentheses indicate machine dimensions.

*2. Excluding ink bottle height.



Relocating the Product

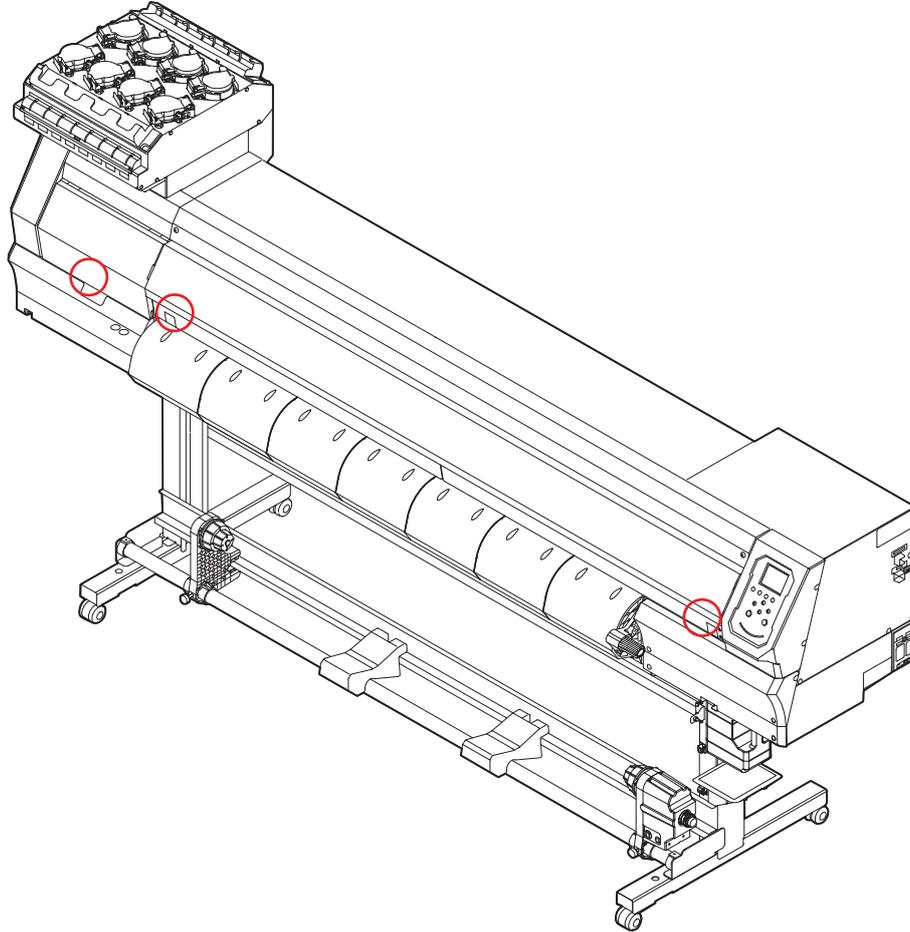
Be sure to contact your local dealer or our service office. Failure or damage may result if you attempt to relocate this product yourself.

Safety Interlocks

This product is equipped with interlocks to ensure safety during use.

Printing will abort if you open the covers while printing is underway. If so, you will need to resend the RIP data.

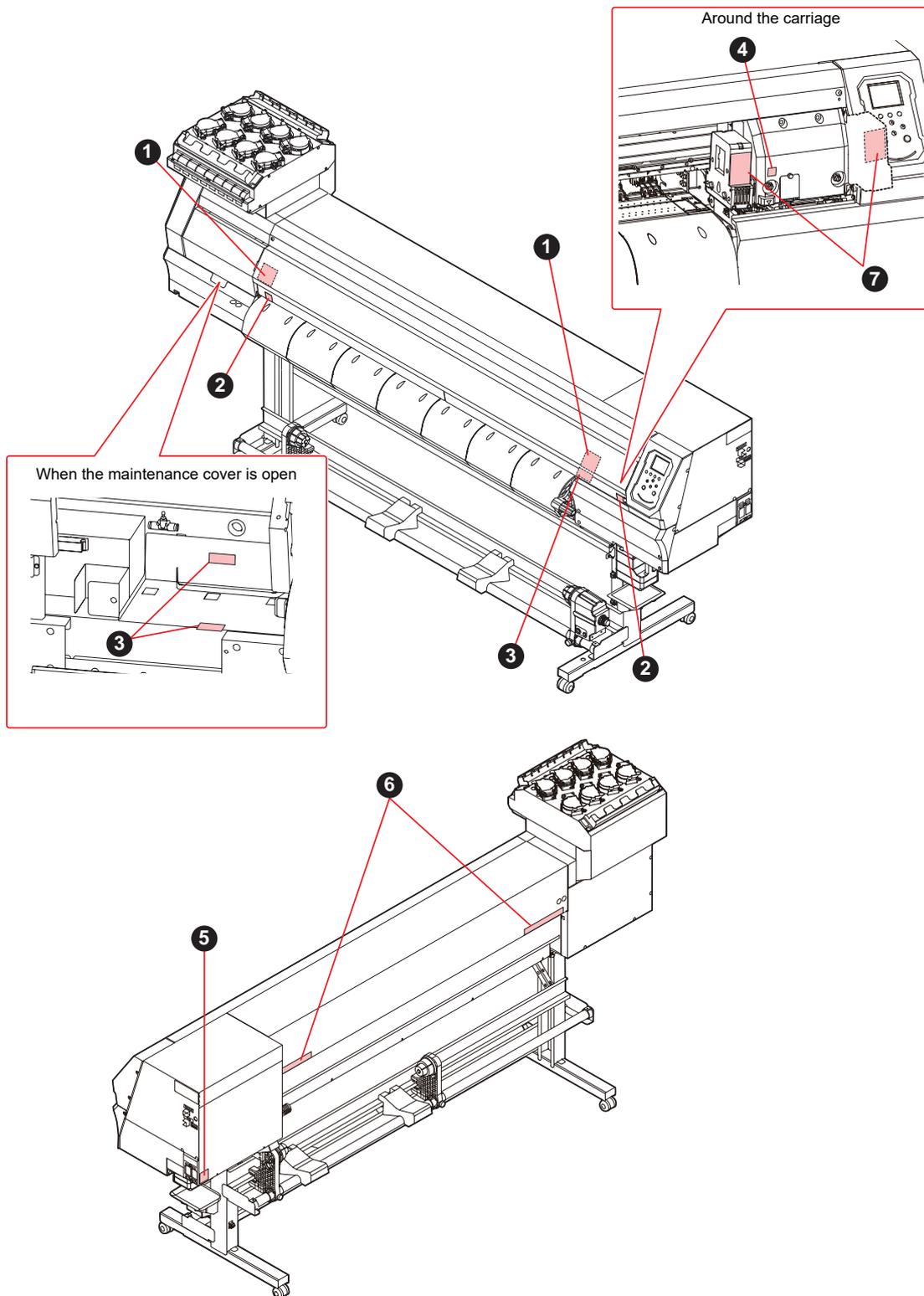
- Safety interlock locations



Warning Labels

Make sure you fully understand the details indicated on the various warning labels.

If any of the warning labels becomes dirty and illegible or peel off, contact your local dealer or our service office to request new warning labels.



No.	Order code	Label	Details
1	M910931		Beware of opening and closing parts. Injury may result if hands become trapped.
2	M907833		Indicates dangerous moving parts.
3	M903330		Wear safety glasses and gloves while working.
4	M903405		Beware of the cutter.
5	M907935		Indicates dangerous live parts.
6	M905811		Indicates dangerous moving parts.
7	M913419		Beware of ultraviolet light.
8	M906144		Indicates a high temperature part.(This nameplate is attached to the option.)