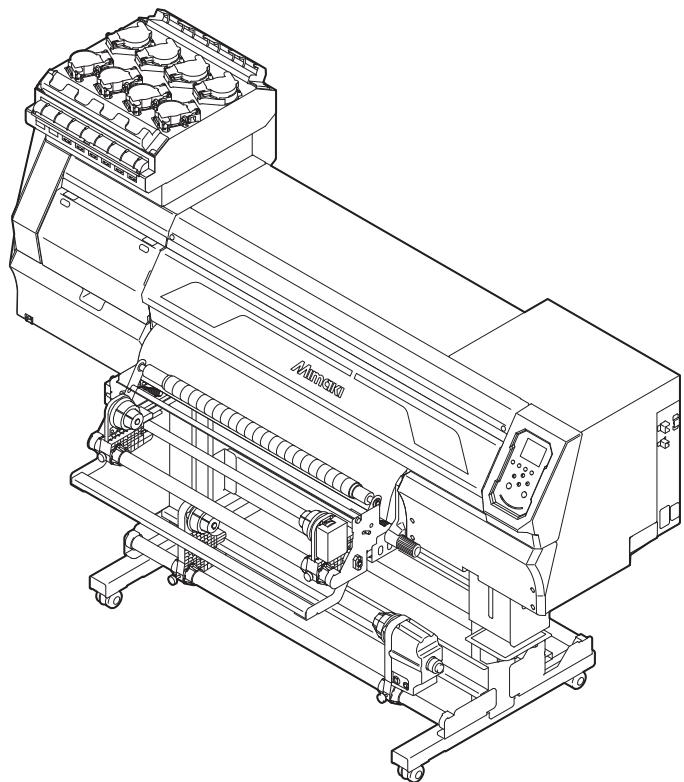


Operation Manual

INKJET PRINTER
UJV300DTF-75

Operation Manual



You can also download the latest manual from official website.

MIMAKI ENGINEERING CO., LTD.

<https://mimaki.com/>

D203890-12
Original instructions

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Introduction

Thank you for purchasing the Inkjet printer UJV300DTF-75.

Read this operating manual ("this document" hereinafter) thoroughly and make sure you understand its contents to ensure safe and correct use of the product.

Please note that the illustrations contained in this manual are intended to show functions, procedures, or operations and may sometimes differ slightly from the actual machine.

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● DISCLAIMERS

- MIMAKI ENGINEERING REJECTS ALL LIABILITY FOR DAMAGE ARISING DIRECTLY OR INDIRECTLY FROM THE USE OF THE UJV300DTF-75 ("THIS MACHINE" HEREINAFTER), WHETHER OR NOT THE PRODUCT IS FAULTY.
- MIMAKI ENGINEERING REJECTS ALL LIABILITY FOR DAMAGE, DIRECT OR INDIRECT, TO MATERIALS CREATED WHILE USING THIS MACHINE.
- USING THIS MACHINE IN CONJUNCTION WITH DEVICES OTHER THAN THOSE RECOMMENDED BY MIMAKI ENGINEERING MAY RESULT IN FIRE OR ACCIDENTS. SUCH INCIDENTS ARE NOT COVERED BY THE PRODUCT WARRANTY. MIMAKI ENGINEERING REJECTS ALL LIABILITY FOR DAMAGE, DIRECT OR INDIRECT, ARISING FROM SUCH INCIDENTS.
- USE ONLY GENUINE MIMAKI ENGINEERING INK AND MAINTENANCE LIQUID. USE OF OTHER PRODUCTS MAY RESULT IN FAILURES OR REDUCE PRINT QUALITY. SUCH INCIDENTS ARE NOT COVERED BY THE PRODUCT WARRANTY. MIMAKI ENGINEERING REJECTS ALL LIABILITY FOR DAMAGE, DIRECT OR INDIRECT, ARISING FROM SUCH INCIDENTS.
- DO NOT ATTEMPT TO REFILL THE INK BOTTLES WITH UNAUTHORIZED INK. SUCH INCIDENTS ARE NOT COVERED BY THE PRODUCT WARRANTY. MIMAKI ENGINEERING REJECTS ALL LIABILITY FOR 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. SUCH INCIDENTS ARE NOT COVERED BY THE PRODUCT WARRANTY. MIMAKI ENGINEERING REJECTS ALL LIABILITY FOR DAMAGE, DIRECT OR INDIRECT, ARISING FROM SUCH INCIDENTS.

● TV and radio interference



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

If radio or TV interference occurs, check the radio or TV reception after turning off the machine. If the interference disappears when the power is turned off, the machine 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 machine.
- Plug the TV or radio into a power outlet on a power circuit other than the power circuit to which this machine is connected.

● FCC (Federal Communications Commission) regulations

The machine 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.

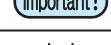


- Use only the cables recommended by Mimaki Engineering when connecting to the machine. Use of other cables may cause the product to exceed the restrictions stipulated by FCC regulations. To maintain compliance with FCC regulations, use the cables recommended by Mimaki Engineering.

To Ensure Safe Use

Symbol Marks

This document uses symbol marks to explain precautions when operating the machine. Make sure you fully understand the meaning of each mark to ensure safe and correct use of the machine.

Explanation		
 WARNING	Warning	Indicates a potential hazard that may result in death or serious injury if handled improperly or if instructions are disregarded.
 CAUTION	Caution	Indicates a potential hazard that may result in minor or moderate injury if handled improperly or if instructions are disregarded.
 NOTICE	Notice	Indicates a potential hazard that may result in property damage if handled improperly or if instructions are disregarded.
	Warning sign	Indicates something that requires attention. Warning specifics are drawn inside the symbol.
	Mandatory action sign	Indicates an action that must be carried out. The specifics of the mandatory action are drawn inside the symbol.
	Prohibition sign	Indicates a prohibited action. The specifics of the prohibited action are drawn inside the symbol.
 Important!	Important	Indicates important information related to use of this machine.
	Tip	Indicates useful reference information.
	Reference information	Indicates the corresponding page for related information.

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 machine 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 machine yourself, which is hazardous.

CAUTION



- Immediately wipe off any ink, maintenance liquid, waste ink, or other liquid used with the product that comes into contact with your skin. Then wash using soap, and rinse with plenty of water. Failure to wash off ink may result in skin inflammation. If your skin becomes irritated or painful, seek medical attention immediately.
- If ink, maintenance 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 also rinse the undersides of your eyelids. Failure to rinse off ink may result in blindness or impaired vision. If your eyes become irritated or painful, seek medical attention immediately.
- If ink, maintenance 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. Then, contact your local dealer or our service office.

● Power supply precautions

⚠ WARNING



- Use the power cable provided. Otherwise there is a risk of failure, electric shock, or fire. The power cable provided is exclusive for the machine, and must not be used for other electrical equipment.
- Always hold the plug when removing the power cable. Pulling out the power cable may damage the cable, leading to failure, electric shock, or fire.
- Do not use the machine with dust accumulated on the power plug. Otherwise there is a risk of failure, electric shock, or fire.
- Take care to prevent metals from touching the power plug blades. Otherwise there is a risk of failure, electric shock, or fire.
- Do not damage or modify the power cable. Do not place heavy objects on, heat or stretch it. Doing so may damage the cable, leading to electric shock or fire.
- Do not use extension cords or power strips. Otherwise there is a risk of failure, electric shock, or fire.
- Do not use the power cable if it is damaged or broken or if the core wire is exposed. Otherwise there is a risk of failure, electric shock, or fire.
- Do not handle the power plug with wet hands. Disregarding this precaution may result in electric shock.

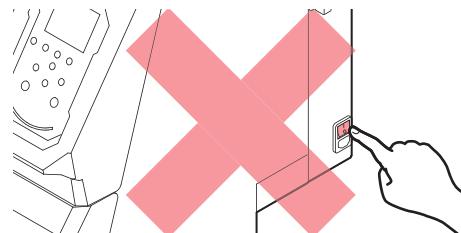


- Plug the power cable plug into a grounded power outlet. Otherwise there is a risk of failure, electric shock, or fire.
- When installing electrical outlets, perform grounding work to prevent electric shock. All electrical work (Class C grounding work; formerly Type 3 grounding work) must be handled by a licensed electrician.

NOTICE



- Do not turn off the main power supply. Turning off the main power supply will disable the automatic maintenance function (including nozzle clogging prevention function and ink discharge channel cleaning function). This increases the risk of ejection failures (such as nozzle clogging or deflection).



- Use the machine with a power supply that meets specifications.
- Be sure to plug the power cable into a power outlet close to 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 will cause the breaker to trip.

● Caution regarding moving parts

⚠ CAUTION



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



● Do not disassemble or repair

⚠ WARNING



- Do not attempt to disassemble or repair this machine. Otherwise there is a risk of failure, electric shock, or fire.

● Ultraviolet light (UV) and the UV-LED unit

⚠ WARNING



- Do not place combustibles under the UV-LED unit, and do not cover it with paper or cloth. There is a risk of fire or burns.
- Small amounts of ultraviolet light may leak from the UV-LED unit. Wear UV-blocking glasses or a light-shielding face shield, mask, gloves, and long-sleeved clothing to avoid UV exposure to the eyes and skin.
 - (1) Exposure to ultraviolet 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. Be careful not to touch the LED after it has been turned off until it has sufficiently cooled.



- Do not expose the skin or eyes directly or indirectly to light from the UV-LED unit. The UV-LED unit emits ultraviolet (UV) light. Skin or eye exposure may result in 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 deformation or failure of the unit.
- 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 soaked with ethanol. Be careful to keep ethanol from splashing on the covers or other parts while cleaning. Disregarding this precaution may result in deformation or failure of the unit.

● Other usage precautions

⚠ WARNING



- Keep children away from the machine.

NOTICE



- Do not pull the media when the clamp lever is lowered (the media is clamped). Doing so may damage the machine.

(Important)

- The underside of the media may be soiled depending on how the printed media has been stored (due to weight when laying printed media rolls horizontally, for example) and the media type. Perform a test beforehand to check that the media does not transfer ink to the underside of the adjacent media.

● Disposing of the product

⚠ CAUTION



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

Notes on Handling Ink or any Other Liquid Used with the Machine

Precautions regarding ink, maintenance liquid, or other liquids used with this machine are included with the containers. Thoroughly read them and make sure you understand the contents.

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

⚠ CAUTION



- Pay close attention to ventilation and be sure to wear safety glasses, gloves, and a mask when handling ink, maintenance liquid, waste ink, or other solutions used with the machine. Leaking ink may adhere to the skin or get into the eyes or mouth.



- Do not subject cases containing ink to strong shock or violent shaking. Do not attempt to refill the ink. Leaking ink may adhere to the skin or get into your eyes or mouth.



- Do not disassemble cases containing ink. Leaking ink may adhere to the skin or get into your eyes or mouth.



- Do not store ink, maintenance liquid, or other liquids used with the machine in locations where children may enter.



- When disposing of ink, maintenance liquid or other liquid used with the product, or containers or non-woven fabric contaminated with ink or other liquid, contact an industrial waste disposal operator or dispose of the product in accordance with the local laws and regulations.

NOTICE



- Do not store ink, maintenance liquid, or other liquids used with the machine in locations exposed to direct sunlight.
- Do not store ink, maintenance liquid, or other liquids used with the machine in environments where cutting fluid or other volatile substances (such as amines or modified amine alcohol) are present in significant quantities. Storage in such places increases the risk of failure or ejection failures (e.g., nozzle clogging or deflection).
- Do not use ink, maintenance liquid, or other liquids used with this machine with other printers. Doing so may cause failure.



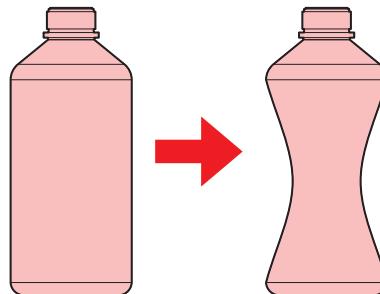
- Be sure to store them in a low place no higher than 1 m above the floor. Otherwise there is a risk of scattering if the containers fall.
- Store in tightly sealed containers.
- Store in a cool, dark place.
 - (1) Store ink in a place where ink does not freeze. Using defrosted ink may deteriorate ink constituents and reduce print quality.
 - (2) When ink is moved from a cold place to a warm place, leave it in the environment where the machine is installed for at least three hours before using it.
 - (3) Open the container just before installing it, and use it up as quickly as possible. If it is opened and left for an extended period of time, print quality may be reduced.



- Do not touch the metal parts of the ink IC chip. Static electricity may damage the ink IC chip, and dirt or damage may cause the ink IC chip read error.



- Printing is not possible when different types of ink IC chips are used.
- If the ink bottle mounted on the machine is dented, it may still be used.



Ink Specifications

Item	Details	
Type	UV curing ink (MIMAKI product)	
Color	Cyan (C) Magenta (M) Yellow (Y) Black (K) White (W) Clear ink (CL)	
Form	Bottle	
Ink capacity	1000 ml	
Expiration date	As indicated on the ink bottle However, after opening, it should be consumed within three months, even if before the expiration date.	
Storage temperature	When stored	5 to 30°C (daily mean temperature) However, not more than 1 month at 30 °C <ul style="list-style-type: none"> • Ink quality may deteriorate if stored outside these conditions.
	During transportation	1- 60°C However, not more than 120 hours at 60 °C, and not more than 1 month at 40 °C <ul style="list-style-type: none"> • Where possible, avoid storing in cold locations below 0 °C and hot locations above 40 °C. • Ink quality may deteriorate if stored outside these conditions.

Restrictions Concerning the Expiration Date of Ink Used in the Machine

Example: When the expiration date is April 20xx

- May 20xx: Replace with new ink or use up as quickly as possible. Printing is possible.
- June 20xx: Replace with new ink or use up as quickly as possible. Printing is possible.
- July 20xx: Printing is not possible.



- The message appears on the display.

(Important!)

- The ink expiration date is indicated on the ink containers. Expired ink may cause ejection failures or alter the color tone. Printing is possible even if the ink has passed its expiration date. Nevertheless, we recommend replacing with new ink or using up as quickly as possible.

Installation Precautions

⚠ WARNING



- Do not install the machine in a place close to fire.
- Do not place flower vases, pots, cups, containers containing cosmetics, chemicals or water, or small metal items on or close to the machine. If they enter the machine, there is a risk of failure, electric shock, or fire.



- Do not install this machine in humid locations or locations where it may be exposed to splashing water. Otherwise there is a risk of failure, electric shock, or fire.



- Do not install the machine in a place where children may enter.

⚠ CAUTION



- A ventilation system must be provided if the machine is installed in a poorly ventilated area or sealed room.
- Be sure to observe the following points regarding exhaust port installation:
 - (1) Exhaust port installation must conform to local environmental, health, and safety (EHS) guidelines.
 - (2) If the exhaust port is fitted with a shutoff valve, the valve must be open when the machine is in use.

NOTICE



- Do not install the machine in a dusty location. Dust ingress inside the machine increases the risk of failure or ejection failures (e.g., nozzle clogging or deflection).
- Do not install the machine where it is exposed to drafts, such as near an air conditioner. This increases the risk of dust ingress inside the machine.
- Do not install the machine in unstable locations or locations subject to vibration. This increases the risk of failure or ejection failures (such as nozzle clogging or deflection).
- Do not install the machine in a location subject to direct sunlight.
- Do not install the machine in a location subject to extreme temperature fluctuations. This increases the risk of failure or ejection failures (such as nozzle clogging or deflection).
- Do not install the machine in a location where large equipment generating noise is situated.
- Do not install the machine in locations where photographic fixing agent vapors, acid fumes (such as acetic acid or hydrochloric acid), cutting fluid, or other volatile substances (such as amines or modified amine alcohol) are present. Installing in such environments increases the risk of ink solidifying on the print head surface, causing failure or ejection failures (e.g., nozzle clogging or deflection).



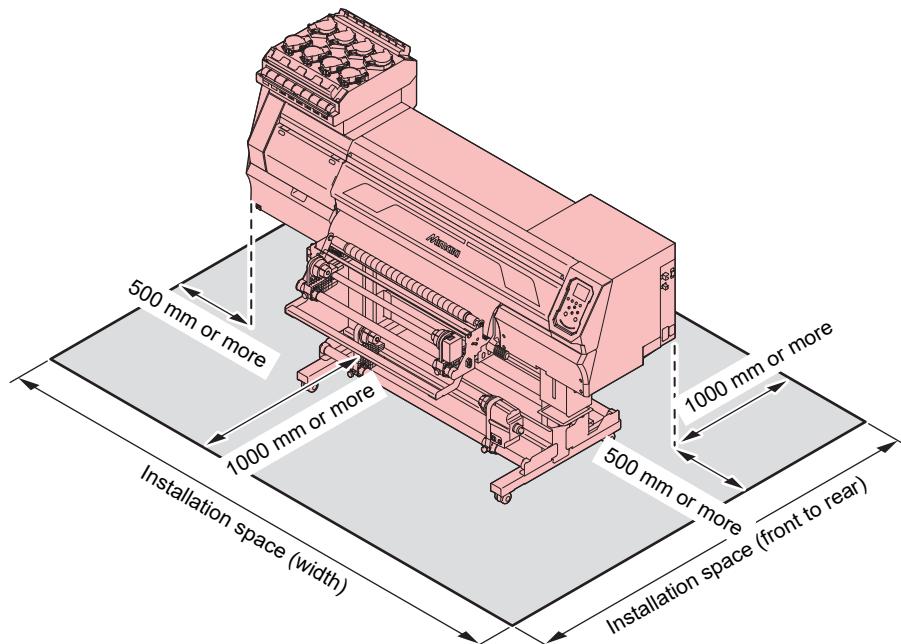
- Check to confirm that the ambient temperature is within the specified range. Hot conditions where the ambient temperature is 30 °C or higher increase the risk of adhesive adhering to the pinch rollers and media jams.



- Operating environment: 20 to 30 °C (68 to 86 °F), 35 to 65 %RH (no condensation)
- Temperature range in which accuracy is guaranteed: 20 to 25 °C (68 to 77 °F)

Installation Space

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



Item	UVJ300DTF-75
Width ^{*1}	At least 3,090 mm (2,090 mm)
Depth ^{*1}	At least 2,930 mm (930 mm)
Height ^{*1,*2}	(1,475 mm)
Weight	180 kg

*1. The figures in parentheses indicate machine dimensions.

*2. Excluding the ink bottle height

General

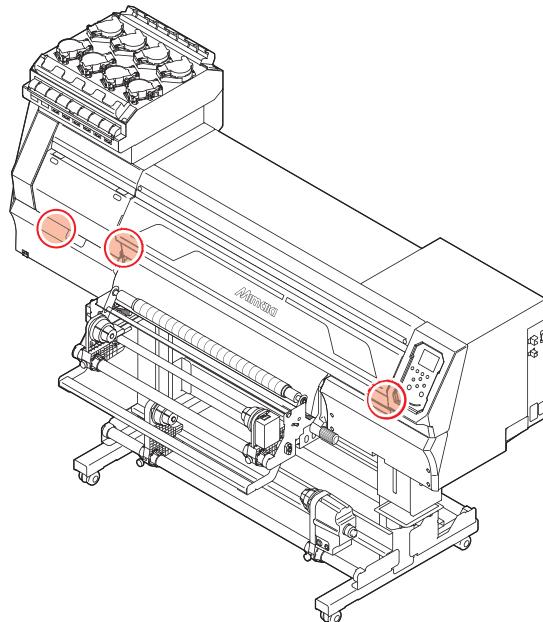
Contact your local dealer or our service office. There is a risk of failure or damage to the machine if you try to move it yourself.

Safety Interlocks

The machine is equipped with interlocks to ensure safety during use.

Printing will abort if you open the covers while printing is underway. The RIP data will need to be resent.

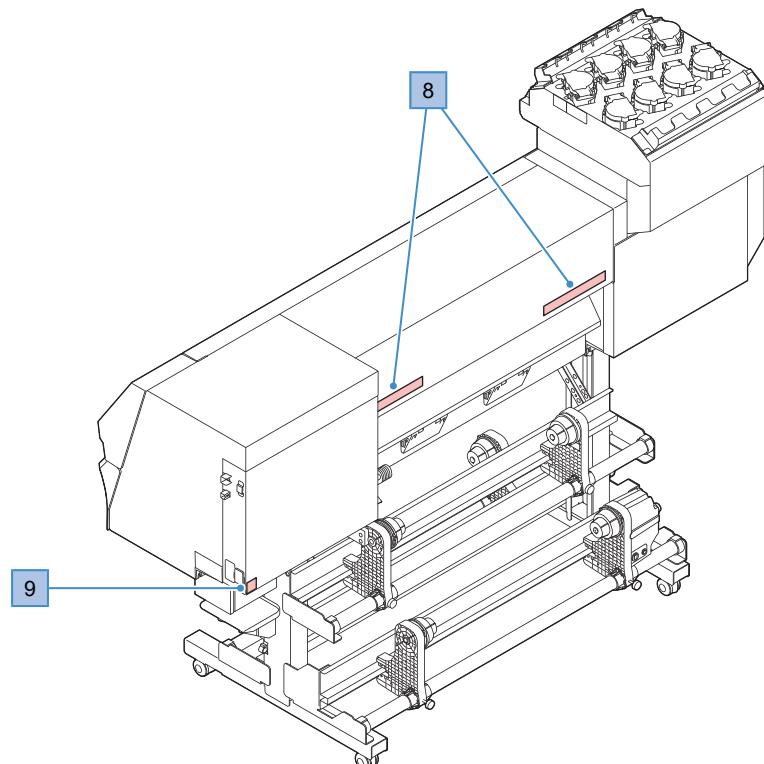
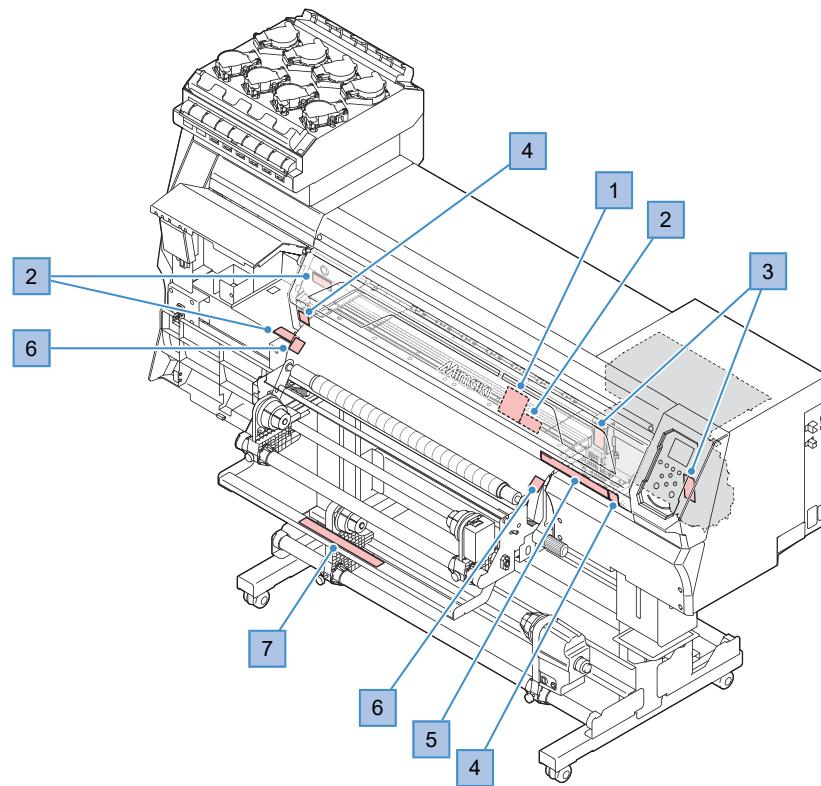
- Safety interlock locations



Warning Label

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	M903330		Wear safety glasses and gloves while working.
3	M913419		Beware of ultraviolet light.
4	M907833		Indicates dangerous moving parts.
5	M901607		Beware of opening and closing parts.
6	M903239		Indicates hot parts.
7	M913939		Indicates dangerous moving parts.
8	M905811		Indicates dangerous moving parts.
9	M907935		Indicates dangerous live parts.

Chapter 1 Before Use



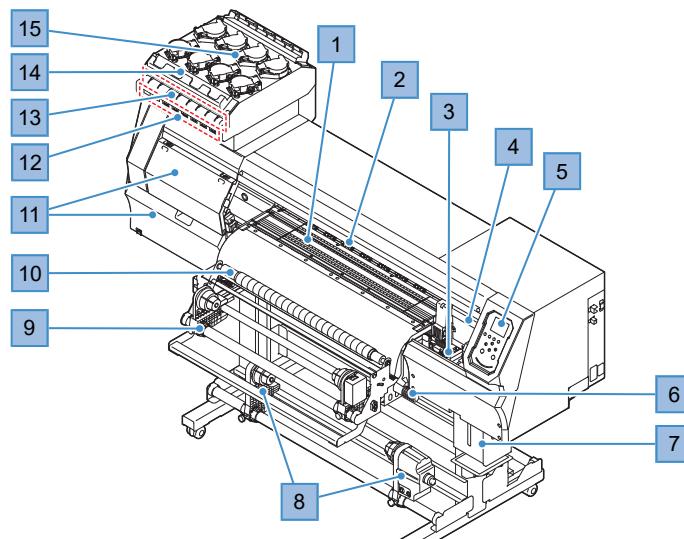
This chapter

This chapter describes information essential before use, such as part names.

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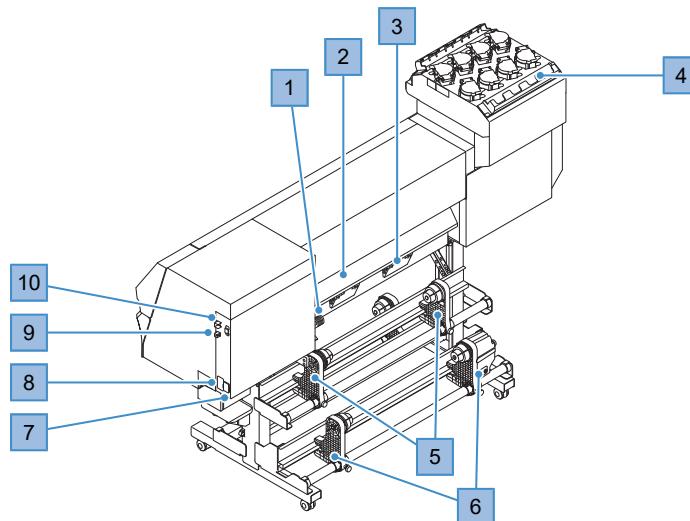
1.1 Part Names and Functions

Front



No.	Name	Overview
1	Platen	Print area. "Platen"(P. 27)
2	Pinch roller Grit roller	The pinch rollers and grit rollers are used to grip and feed the media. "Pinch Rollers and Grit Rollers"(P. 27)
3	Capping station	Consists of parts such as caps, wipers, and an NCU for monitoring print head nozzle conditions. "Capping station"(P. 26)
4	Carriage	Consists of parts such as the print head, UV-LED lamp, and jam sensor. "Carriage"(P. 26)
5	Operating Panel	Includes operating keys and displays indicating various settings and other items. "Operating Panel"(P. 30)
6	Clamp lever (front)	Lowering the clamp lever secures the media. Raising the clamp lever releases the media.
7	Waste Ink Tank	Container for waste ink. "Waste Ink Tank Replacement"(P. 125)
8	Take-up unit	Rolls up the printed roll media. "Take-up Units for Prints and Release Paper"(P. 54)
9	Bonding Unit	Performs processes from feeding to bonding B Film (Application Film). "Bonding Unit"(P. 56)
10	Bonding roller	Bonds B Film (Application Film) after Print.
11	Maintenance cover	Open the cover to perform maintenance on the carriage underside. Printing and the automatic maintenance function are not possible while the covers are open.
12	Ink IC chip slot	Insert the IC chips provided with the Ink bottle. This manages information on the Ink bottle.
13	Ink status lamp	This lamp indicates ink status.
14	Ink wipe filter	Filter for soaking up ink droplets from special ink bottle caps.
15	Ink Supply Unit	The ink bottle is inserted here to supply ink to the print head. "Ink Replacement Method"(P. 43)

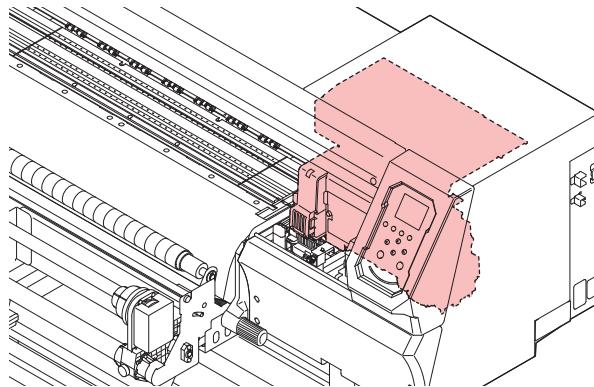
Rear and Right Side View



No.	Name	Overview
1	Clamp lever (rear)	Linked to the clamp lever at the front.
2	Media Sensor	Detects whether media is present. "Media Sensor"(P. 28)
3	Media vacuum fan exhaust port	Vacuum fan exhaust port securing media under vacuum pressure
4	Ink wipe filter	Filter for soaking up ink droplets from special ink bottle caps.
5	Feeding unit	Holds the roll media before printing. Compatible with 2- and 3-inch paper cores.
6	Release paper take-up unit	Take-up unit for release paper.
7	AC inlet	Used to connect the power cable (provided). "Connecting the Power Cable"(P. 34)
8	Main power switch	The main power supply for the machine. To prevent print head discharge defects (such as nozzle clogging or deflection), do not turn off the main power supply. "Turning On the Power"(P. 35) "Turning Off the Power"(P. 36)
9	LAN port	Used when using the network function. "Using a LAN Cable"(P. 37)
10	USB port	Connects to PC via a USB interface cable. "Using a USB Cable"(P. 37)

Carriage

The carriage incorporates print heads that discharge ink, a UV-LED lamp for curing UV ink, and a jam sensor that stops the carriage in case of media jamming. Printing occurs as ink is ejected while traversing left and right.

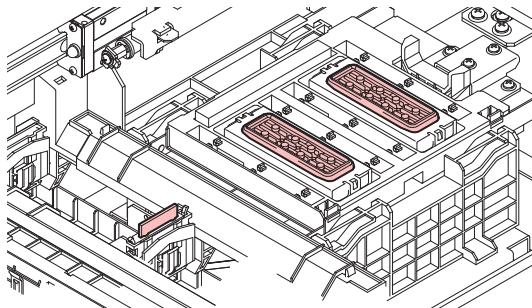


- Be sure to use the UV safety glasses provided. Disregarding this precaution may result in eye pain or damage to eyesight.

Capping station

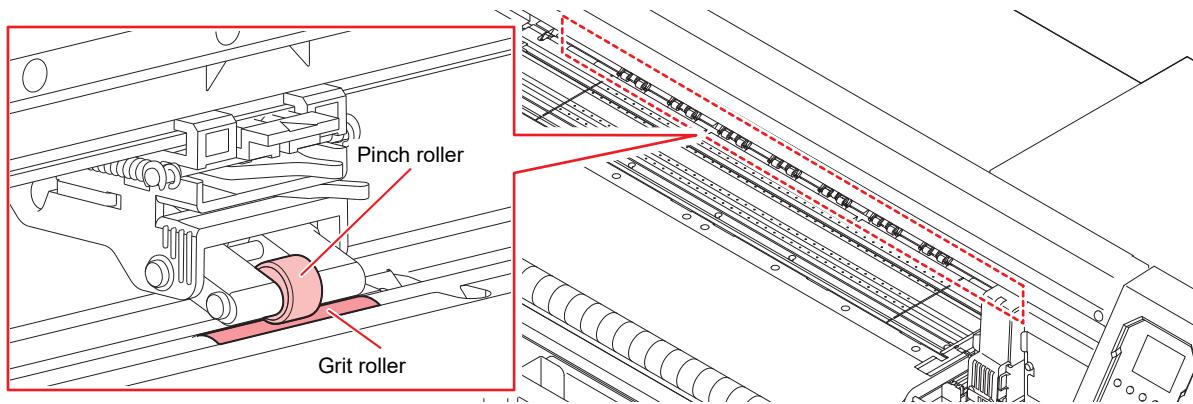
The capping station includes caps for keeping the print head nozzle surface from drying out, a wiper required for print head maintenance, and an NCU for monitoring print head nozzle conditions.

The NCU (Nozzle Check Unit) automatically checks whether the nozzle is clogged. Setting various functions enables automatic print head cleaning or printing using other nozzles.  ["Nozzle Check Menu"\(P. 90\)](#)  ["Registering Nozzle Recovery"\(P. 86\)](#)



Pinch Rollers and Grit Rollers

The pinch rollers and grit rollers are used to grip and feed the media.

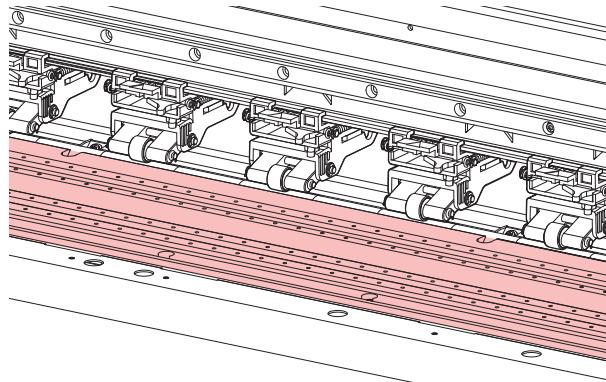


When the machine is not in use, raise the clamp lever to separate the pinch rollers from the grit rollers.

- Leaving the pinch rollers lowered may cause them to become deformed and prevent media from being fed correctly.
- Leaving media loaded will subject it to force from the pinch rollers, which may leave pinch roller marks on it.

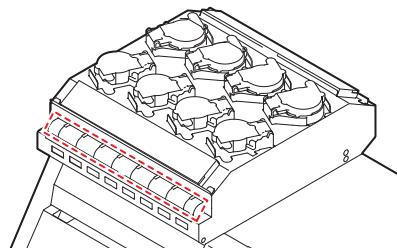
Platen

Print area. The platen secures the media under vacuum pressure.



Ink status lamp

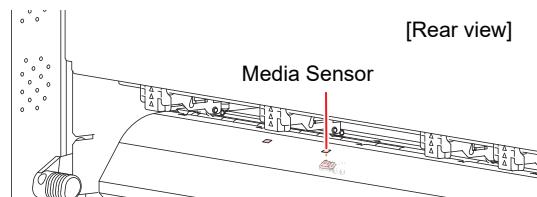
You can check the status of the ink by looking at the lamp on the ink supply unit.



Color	Status	Overview
-	Off	No error
Blue	Illuminated	Ink is being supplied (no error)
Yellow	Illuminated Flashing	One of the following errors has occurred: Printing is possible. <ul style="list-style-type: none"> • INK NEAR-END • Ink has expired (1 months passed)
Red	Illuminated	One of the following errors has occurred: Printing is not possible. <ul style="list-style-type: none"> • Ink End • The ink IC chip is not inserted. • Other ink errors
	Flashing	Printing is not possible. <ul style="list-style-type: none"> • Ink has expired (2 months passed)

Media Sensor

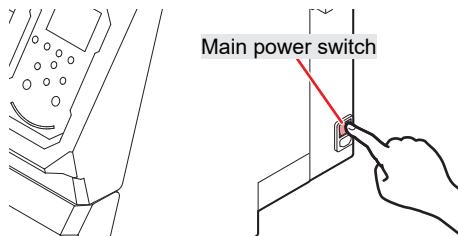
The media sensor detects the presence/absence of media. The sensor must be covered by the media to detect the media width.



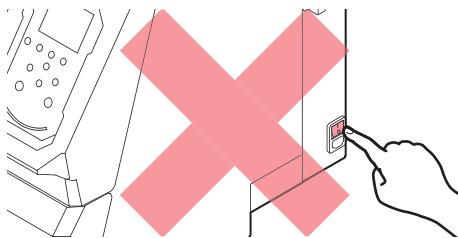
Power Supply Switch

● Main power switch

Located on the right side of the machine.

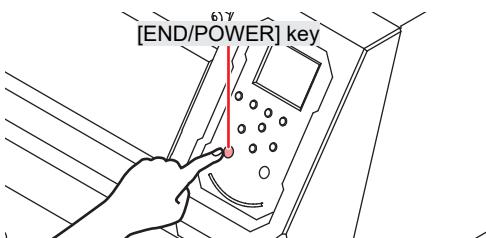


- Do not turn off the main power supply. Turning off the main power supply will disable the automatic maintenance function (including nozzle clogging prevention function and ink discharge channel cleaning function). This increases the risk of ejection failures (such as nozzle clogging or deflection).



● [END/POWER] key

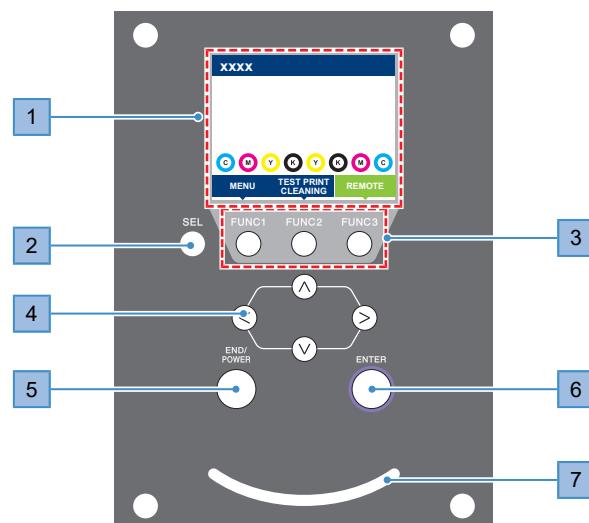
The [END/POWER] key is the key normally used to turn the power on and off.



- Close the front cover and maintenance covers. Leaving any of the covers open will disable the automatic maintenance function (including nozzle clogging prevention function and waste ink draining channel cleaning function). This will increase the risk of failure or ejection failures (e.g., nozzle clogging or deflection).

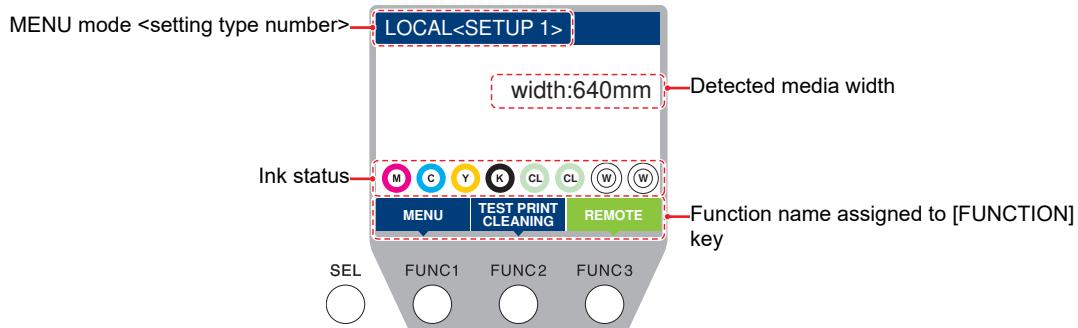
Operating Panel

This is used to control the product and make/change settings.



No.	Name	Overview
1	Display	"Display"(P. 31)
2	[SEL] key	Selects the function for the corresponding [FUNCTION] key.
3	[FUNCTION] key	Used for test printing, head cleaning, and editing settings "[FUNCTION] key"(P. 32)
4	[JOG] key ▲▼◀▶	Used to move the carriage, feed media, and select settings
5	[END/POWER] key	Used to cancel the last setting entered, return to the previous level of the setting menu, or to turn power on and off <ul style="list-style-type: none"> • Illuminates in blue when the power is on. "Turning On the Power"(P. 35) • To turn off the power, hold down the key. "Turning Off the Power"(P. 36)
6	[ENTER] key	Used to move to the next level menu and to confirm settings. This can also be used to display product information. "Displaying Machine Information (Local Guidance)"(P. 33)
7	Status lamp	This lamp indicates the machine status.
		Off Indicates LOCAL mode. Used for test printing, maintenance, and settings
		Light blue Illuminated Indicates REMOTE mode. The product is in standby to receive print data.
		Light blue Flashing Indicates printing is underway. This also flashes to indicate test printing—for example, when printing built-in patterns.
		Blue Illuminated Indicates that data remains to be printed. Switch to REMOTE mode and start printing
		Red Flashing An error has occurred. Refer to the error code list and take appropriate action. "Error Message"(P. 148)
		Red Illuminated A system error (SYSTEM HALT) has occurred. Contact our service office. "SYSTEM HALT"(P. 155)

Display



MENU mode

Four menu modes are available.

Name	Overview
LOCAL mode	Used for test printing, maintenance, and settings
REMOTE mode	Prints the print data received from a PC.
MENU mode	Press the [MENU] on the LOCAL mode screen to switch to MENU mode. This is used to set various functions.
NOT-READY mode	Status before media is detected

Ink status

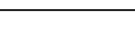
Ink bottle status such as remaining ink levels and ink errors are indicated by icons.

Icon	Overview
	Displays remaining ink levels using a 9-stage icon.
	Full
	1/8 used
	1/4 used
	3/8 used
	1/2 used
	5/8 used
	3/4 used
	7/8 used

Icon	Overview
	Displayed when the machine is nearly out of ink. Very little ink remains. Prepare fresh ink. * Indicates ink end for UISS (two ink bottles of the same color are fitted).
	Printing is not possible. Displayed when ink is depleted or an ink error has occurred. "Ink Error"(P. 147)
	Displayed when the ink has passed its expiration date. Replace with new ink or use up as quickly as possible. Printing is possible. "Restrictions Concerning the Expiration Date of Ink Used in the Machine"(P. 16)

[FUNCTION] key

This section describes the functions and roles assigned to the [FUNCTION] key.

Icon	Overview
	Displays the various menu screens.  "Setup"(P. 81)
	Displays maintenance functions such as test printing and cleaning.
	Switches from LOCAL mode to REMOTE mode.
	Displays adjustment functions such as feed adjustment and drop position adjustment.
	Clears received data.
	Used to switch from REMOTE mode to LOCAL mode
	Used to move to the previous menu screen
	Used to move to the next menu screen
	Used to close the confirmation screen in response to prompts or other messages
	Used to disable functions
	Indicates that the function is assigned. Displays settings and functions.
	Used to enable or disable multiple items

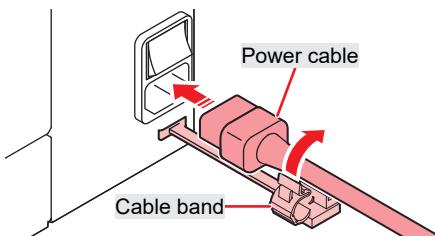
Displaying Machine Information (Local Guidance)

Press the [ENTER] key on the LOCAL mode screen to display the following information.

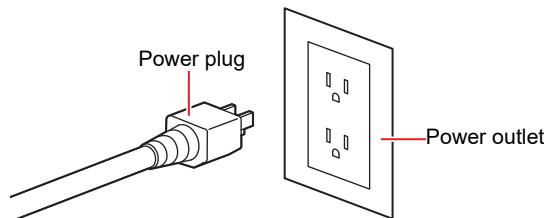
- Ink information: Displays ink type, remaining ink levels, and ink errors.
- Ink IC chip registration information: Displays the information registered on the ink IC chip.
- Warning: Displays all warnings issued.
- Information: Displays information such as media width, head height, product serial number, firmware version, command version, and LAN connection status.
- Nozzle check: Displays the number of nozzles detected as clogged in the nozzle check.

1.2 Connecting the Power Cable

- 1** Check to confirm that the main power supply is turned off.
- 2** Insert the cable band to the machine.
- 3** Plug the power cable into the inlet of the machine.
- 4** Secure the power cable to the cable band.
 - Pass the power cable through the clamp and clamp until it clicks into place.



- 5** Plug the power plug into the power outlet.



- Do not handle the power plug with wet hands. Disregarding this precaution may result in electric shock.

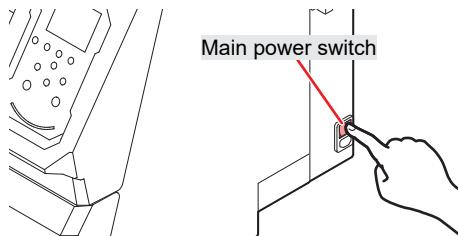
Turning On the Power



- Close the front cover and maintenance covers. Leaving any of the covers open will disable the automatic maintenance function (including nozzle clogging prevention function and waste ink draining channel cleaning function). This will increase the risk of failure or ejection failures (e.g., nozzle clogging or deflection).

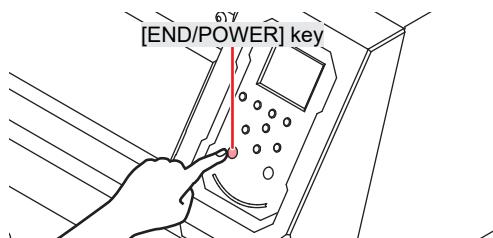
1 Check to confirm that the main power supply is turned on.

- If the main power supply switch is not turned on, set to "I".



2 Press the [END/POWER] key to turn on power.

- The firmware version appears on the display, and the initial operation is executed. LOCAL mode is then set and the machine is ready for use.



3 Turn on the power for the connected PC.

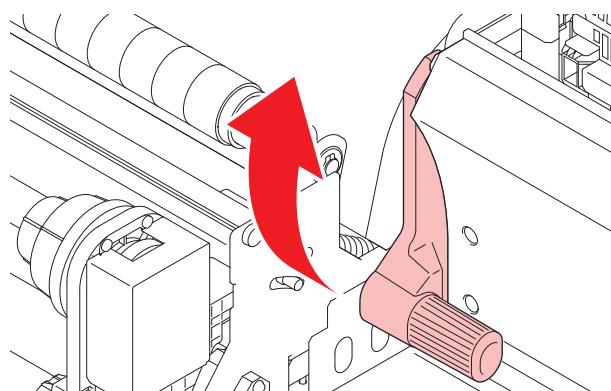
Turning Off the Power



Check the following before turning off the power.

(1) The clamp is raised.

- Use the clamp lever to raise the clamp. An error message is displayed if you attempt to turn off the power while the clamp is lowered.



(2) The front cover and maintenance covers are closed.

- Leaving any of the covers open will disable the automatic maintenance function (including nozzle clogging prevention function and waste ink draining channel cleaning function).

(3) The carriage has returned to the capping station.

- If not, the print head nozzle may dry out, resulting in ejection failures (such as nozzle clogging or deflection).

(4) Data is not being received

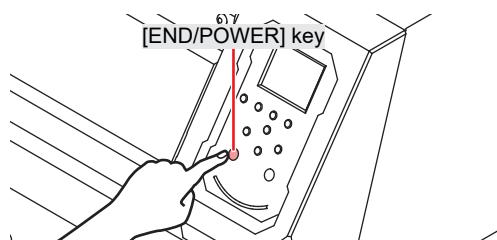
(5) No errors have occurred.

- "Problems Causing Messages to Appear"(P. 145)

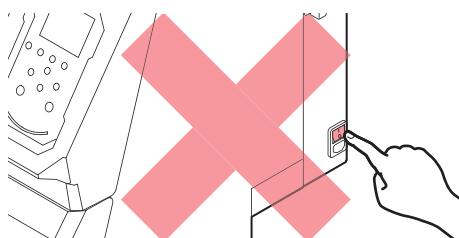
1 Turn off the power to the PC connected.

2 Hold down the [END/ POWER] key.

- A power off confirmation screen appears. Press the [ENTER] key to turn the power off.



- Do not turn off the main power supply. Turning off the main power supply will disable the automatic maintenance function (including nozzle clogging prevention function and ink discharge channel cleaning function). This increases the risk of ejection failures (such as nozzle clogging or deflection).



1.3 Connecting a PC to the Product

Using a USB Cable

Connect a PC to this product using a USB interface cable.



- Do not unplug the cable while data is being transferred.



- If the PC does not have a USB port, contact your local distributor, our sales office, or service center.

USB Connection Precautions

● When connecting more than one UJV300DTF-75 to a PC

The UJV300DTF-75 may not be correctly recognized.

If the PC has more than one USB port, try connecting to a different USB port to check whether the product is correctly recognized. If the product is still unrecognized even when connected to a different USB port, use a commercially-available USB active repeater cable.

● When extending the USB cable

Use a commercially-available USB active repeater cable. However, make sure that the combined length of the USB cable and the USB active repeater cable does not exceed 20 m.

If the connection is extended with a USB cable, data transfer speeds to the machine may be reduced, causing the carriage to pause at the left or right end during printing.

● USB high-speed mode peripheral devices

It may not be possible to recognize USB peripheral devices if USB high-speed mode peripheral devices (e.g., USB memory, USB HDD devices) are connected to the PC to which the product is connected. Data transfer speeds to the machine may be reduced if external USB hard disk drives or similar devices are connected. This may cause the carriage to pause at the left or right end during printing.

● Unplugging USB memory devices

When unplugging USB memory devices from the PC to which this product is connected, use "Stop" in "Safely removing hardware" before unplugging. Otherwise, an [ERROR 201 Command Error] will occur.

Using a LAN Cable

Connect a PC to this product using a LAN cable. Insert a LAN cable until it engages with a click.



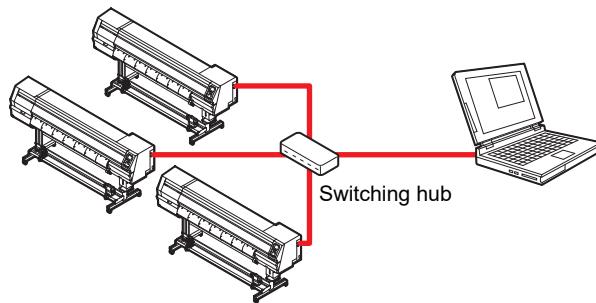
- Do not unplug the cable while data is being transferred.

● Network Connection Precautions

Make sure the network is set up as follows: Printing is not possible if the network is not set up correctly.

- Use a Category 6 or Category 6A LAN cable.
- The PC used to transfer print data must be located on the same network as this product. This product cannot be connected via a router.

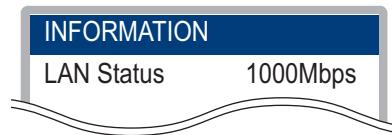
- Use a 1000BASE-T compatible computer or switching hub. Printing requires 1000BASE-T support.



● Checking the LAN connection

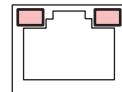
1 Check the display on this product.

- Local guidance can be used for checking.  "Displaying Machine Information (Local Guidance)"(P. 33)
- Printing is not possible if "100Mbps", "10Mbps", or "No Connect" is displayed.



2 Check the lamp on the LAN connector.

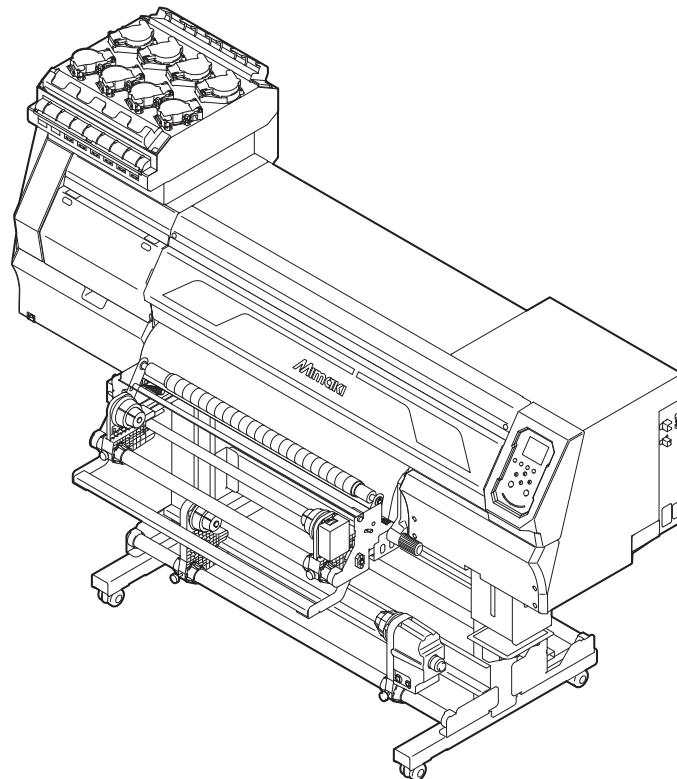
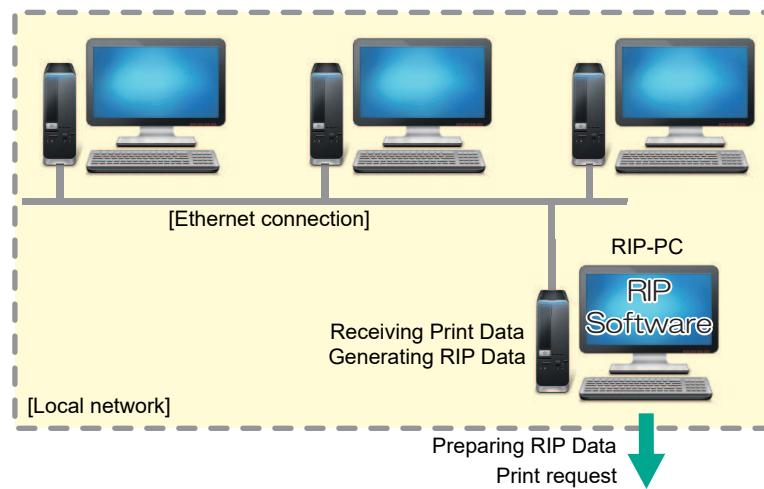
- The LAN connector lamp illuminates when the machine is running.



Color	Status	Overview
Green	Illuminated	Connected via 1000BASE-T
	Off	Connected via a network other than 1000BASE-T • 1,000 Mbps is not supported if only the orange lamp is illuminated or flashing. Check the specifications for the PC, peripheral devices, and cable.
Orange	Illuminated	Linked up (connected).
	Flashing	Data being received
	Off	Link down (not connected)

1.4 System Configuration

Use RIP software to request to print data created using applications like Illustrator or Photoshop.



Installing the Mimaki Driver

1 Download the Mimaki driver from our website.

- <https://mimaki.com/download/inkjet.html>
[UJV300DTF-75] > [Driver/Utility]

2 Install the MIMAKI driver.

The explanation here applies to MIMAKI RIP software (RasterLink).

1 Install RasterLink.

- The following icon appears on the PC desktop once the software has been installed.



- For more information, refer to the RasterLink installation guide. <https://mimaki.com/download-software.html>



- Once installed, activate the license for Rasterlink. Otherwise, "Profile Update" will not start.



Obtaining Color Profiles

Print quality (e.g., tone, bleeding) will vary depending on the media and ink set. To maintain consistent print quality, select a color profile that suits the media and ink set.

The explanation here applies to MIMAKI RIP software (RasterLink).

1 Launch "Profile Update".

- (1) From the Start menu, select [Mimaki RasterLink7] > [Profile Update].
- (2) Click [Next].

2 Select the UJV300DTF-75 being used.

- Select the check box for the ink set and ink type being used, then click [Next].



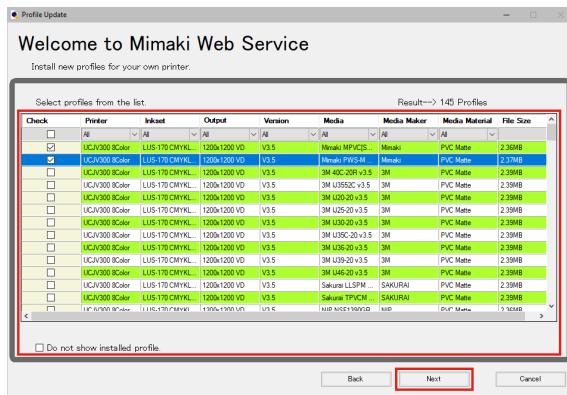


- Expanding the [+] button allows selection of the ink type.

3 Select the desired resolution and media material, then click [Next].

4 Download the color profile.

- (1) Select the check box for the color profile corresponding to the media and resolution to be used.



- (2) Click [Next].

- The profile downloaded here will be installed the next time RasterLink is launched.

5 Click [Complete].

- "Profile Update" closes.



- For more information, refer to the RasterLink installation guide. <https://mimaki.com/download/software.html>



- The latest color profiles can also be downloaded from our website. The profiles downloaded can be installed using Profile Manager.
<https://mimaki.com/download/inkjet.html>
[UJV300DTF-75] > [Profile]

Setting Up RIP Software

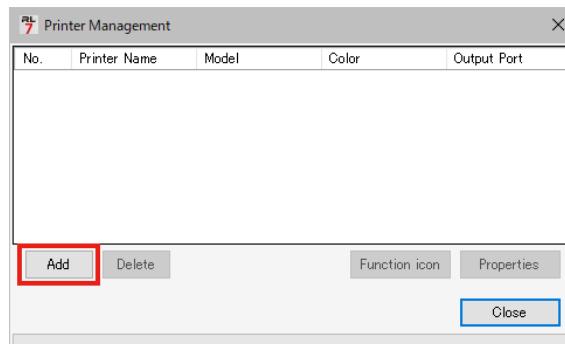
The explanation here applies to MIMAKI RIP software (RasterLink).

1 Launch RasterLink.

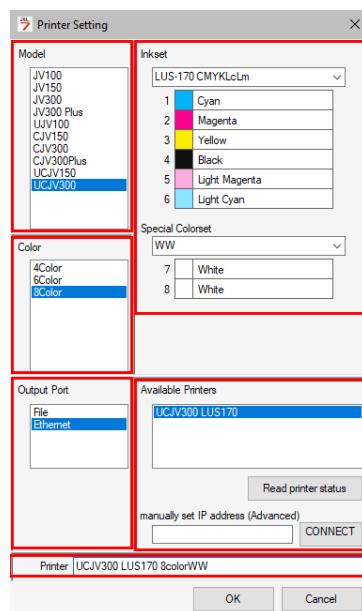
- The [Printer Management] screen appears.
- To add a new model, launch RasterLink, then select [Environment] > [Printer Management] for registration.

2 Register UJV300DTF-75.

(1) Click [Add].



(2) Set the specifics for UJV300DTF-75.



- Model: Select the model.
- Output Port: Select the cable connected.
- Color: Select the ink set filled.
- Available Printers: Select UJV300DTF-75 connected.
- Printer: Enter a name as required.

(3) Click [OK].

- A confirmation screen appears.

(4) Click [Yes].

- Printer registration starts.

- For more information, refer to the RasterLink installation guide. <https://mimaki.com/download/software.html>



1.5 Ink Replacement Method

When Ink Near End is Displayed

Ink levels are low. We recommend replacing with new ink bottle as soon as possible. Printing is still possible, but cleaning and continuous printing are not possible. Note that ink may run out during printing.

To check which ink bottle needs to be replaced, press the [ENTER] key on the LOCAL mode screen.  "Displaying Machine Information (Local Guidance)"(P. 33)

When Ink End is Displayed

The ink has run out. Replace with new ink bottle.

Thoroughly read the following and make sure you understand its contents.

 "Notes on Handling Ink or any Other Liquid Used with the Machine"(P. 13)



- Pay close attention to ventilation and be sure to wear safety glasses, gloves, and a mask when handling ink, maintenance liquid, waste ink, or other solutions used with the machine. Leaking ink may adhere to the skin or get into the eyes or mouth.



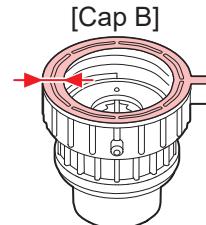
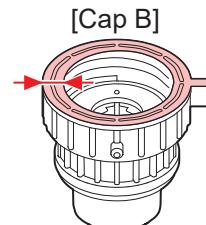
● Clear and white ink

The types of clear and white ink that can be used vary depending on the ink type loaded. Note that only the following combinations can be used.

Loaded ink type	Clear and white ink
ELS170 ink	ELH100 ink

● Ink caps

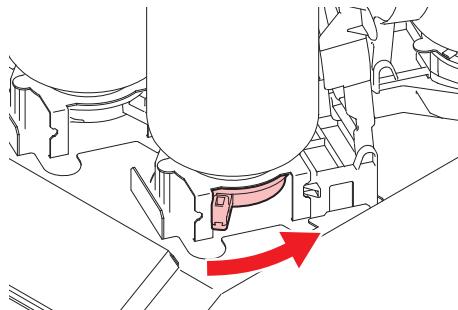
The type of ink cap that can be used varies by ink type. Note that only the following combinations can be used.

Ink type	Cap type
<ul style="list-style-type: none"> LH100 ink LUS120 ink LUS350 ink Primer ink 	
<ul style="list-style-type: none"> ELH100 ELS170 	

Replacing Ink

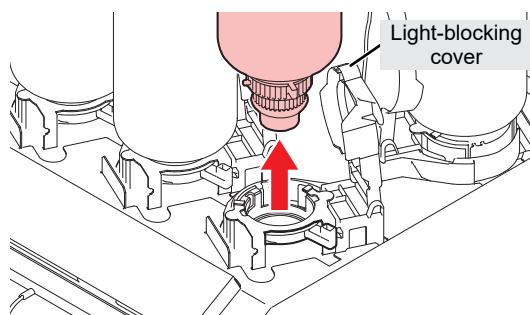
● Removing the Ink bottle

1 Rotate the lever on the tank section from left to right.



- Never attempt to rotate the ink bottles. Doing so may result in leaking ink.

2 Lift the ink bottles vertically.



- Check to confirm that the light-blocking cover is closed when removing ink bottles. Close the light-blocking cover by hand if it is open. If the light-blocking cover is left open, the ink may harden, resulting in printer failure.
- Be careful to prevent ink leaks from the ink bottles.

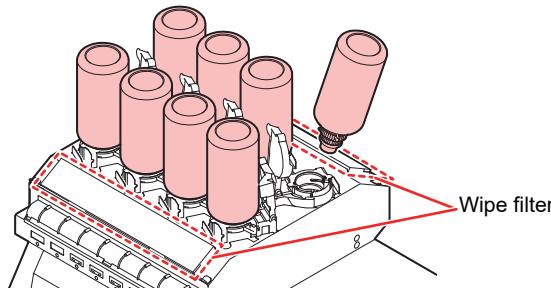
Important!

- The O-rings fitted to the bottle caps may become detached when removing ink bottles. Refit the O-ring if it becomes detached.



3 Soak up any ink droplets on the special caps.

- Use a wipe filter to soak up ink droplets and prevent dripping.



4 Wipe off any ink on the special caps with a paper towel.

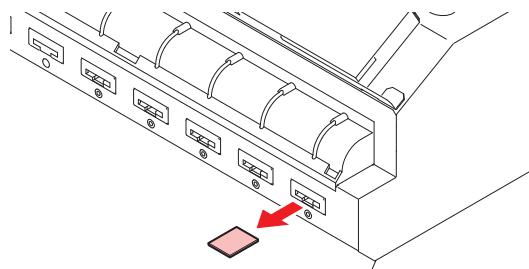


- Check to confirm that there is no foreign matter, such as non-woven fabric scraps or dust, adhering to the ink bottle caps. Continuing to use it when it is dirty may result in foreign matter blocking the ink channels, causing ink leakage.

5 Remove the special caps from the ink bottles.

- If the special caps are tight, remove using a tightening jig.

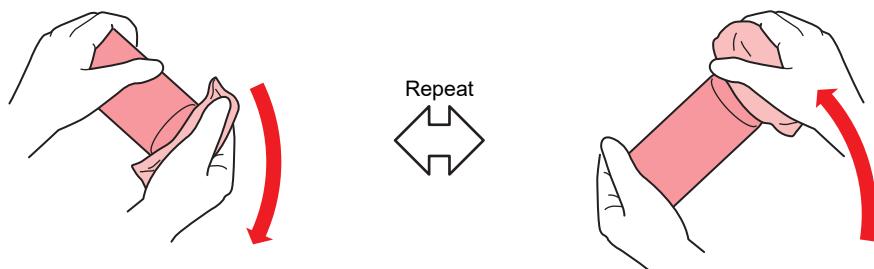
6 Remove the ink IC chip.



● Preparing the Ink bottle

1 Shake the Ink bottle to the left and right slowly at least 20 times.

- Tighten the ink bottle lid securely, then shake the bottle slowly from left to right to ensure that the ink moves inside, holding the ink bottle lid with a piece of recommended non-woven fabric.





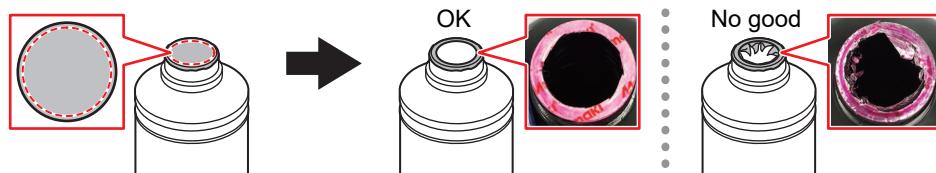
- Shake slowly. If the bottle is shaken too violently, ink may leak out or the air mixed in the ink may cause nozzle clogging.
- If the ink bottle is partially used, tilt it slowly until the ink bottle is upright.

2 Remove the ink bottle lid.

**Important!**

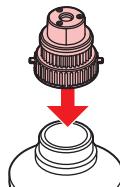
If the mouth of the ink bottle is fitted with a seal

- Cut the seal open using a craft knife. There is a risk of ink leakage if parts of the seal remain.



- Take care not to damage the mouth of the ink bottle. There is a risk of ink leakage if the mouth is damaged.
- Be careful not to drop any of the seal fragments into the ink bottle. If the ink bottle is used with seal fragments inside, these may clog the bottle cap, preventing ink from being supplied.

3 Attach the special caps to the ink bottles.

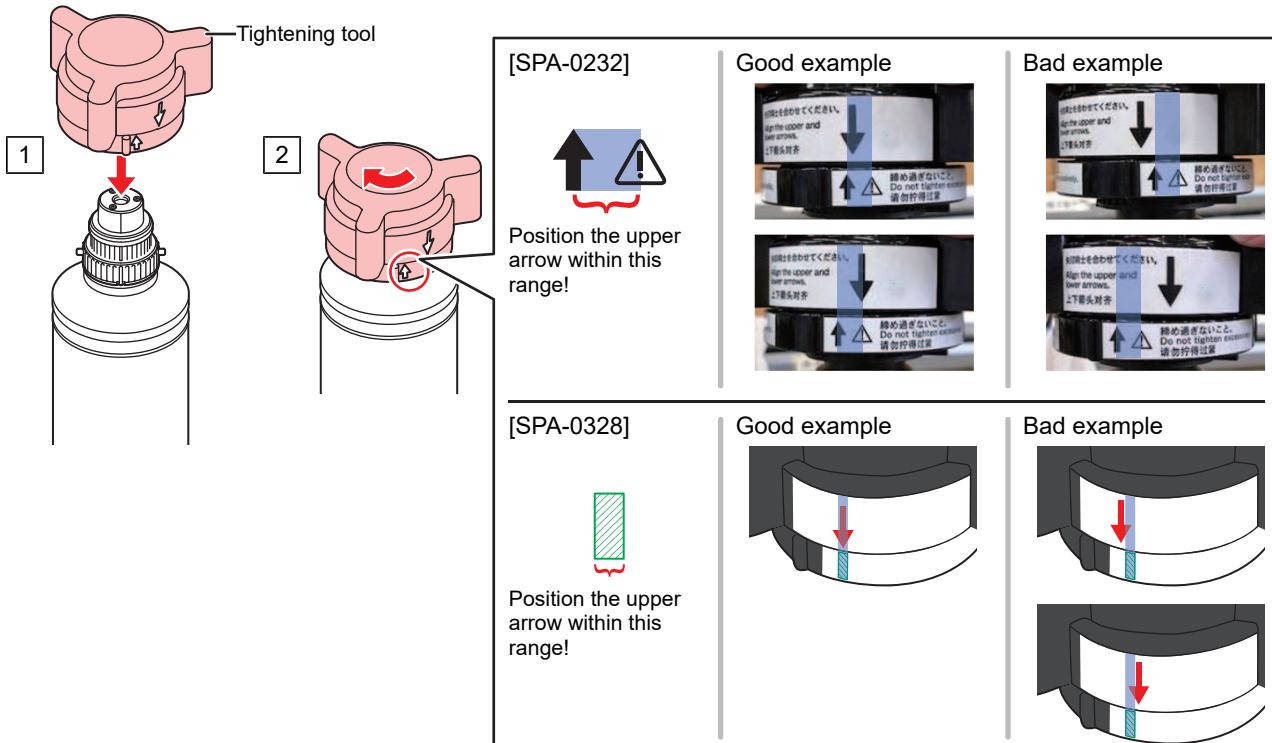


- Wipe off any ink or maintenance liquid remaining on the ink bottle or the bottle cap. Otherwise there is a risk of ink leakage due to loosening of the ink bottle cap.



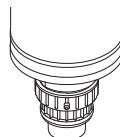
- Check to confirm that there is no foreign matter, such as paper towel scraps or dust, adhering to the ink bottle caps. If foreign matter is present, this may block the ink path and lead to leakage.

4 Use the tightening jig to tighten the special caps.



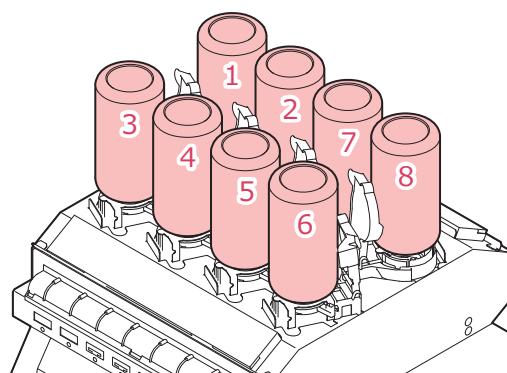
- Do not overtighten the ink bottle caps. Disregarding this precaution may result in damage, idling or ink leakage. If the arrow goes beyond the range indicated above, loosen the bottle cap, and repeat the steps again.
- Do not leave ink bottles with the ink bottle caps fitted for extended periods. Disregarding this precaution may result in the ink hardening.

5 Turn the ink bottle upside-down to check that no ink leaks occur.



● Loading the Ink bottle

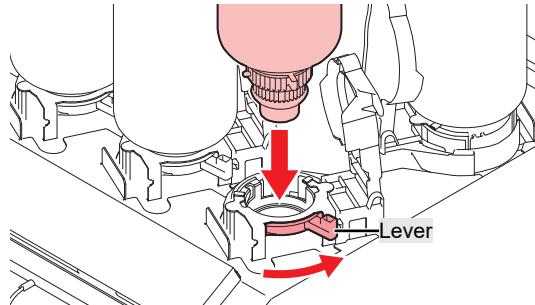
The order of Ink bottle to be set depends on the ink set you are currently using. Check the ink slot numbers, then insert the correct color Ink bottle.



Ink set	Ink positions							
	1	2	3	4	5	6	7	8
4-color, W, CL	C	M	Y	K	CL	CL	W	W

1 Mount the ink bottles.

- Rotate the lever from the left to the right end, then mount the ink bottle.



- You may apply the maintenance liquid onto the O-ring of the ink bottle caps so that the ink bottle can be inserted easily. Use the appropriate maintenance liquid to suit the ink being used.



2 Rotate the lever from right to left to secure the bottle in place.

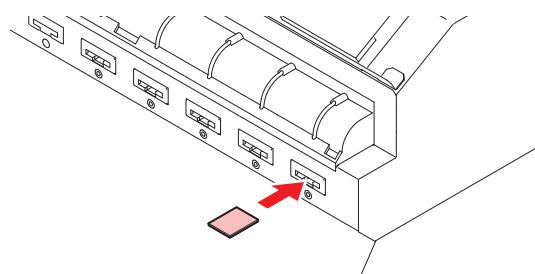


- Never attempt to rotate the ink bottles. Doing so may result in leaking ink.



- Once the ink bottle is mounted, use up the ink as quickly as possible.

3 Insert a new ink IC chip into the slot on the ink supply unit.



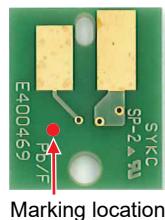
- Insert the ink IC chip with the metal side facing up. Inserting it in the wrong way may cause failure of the machine or damage the ink IC chip.



- Do not touch the metal parts of the ink IC chip. Static electricity may damage the ink IC chip, and dirt or damage may cause the ink IC chip read error.

- Ink IC chips

The marking on the ink IC chip indicates the color information.



Ink Color	Marking
Cyan	● (One blue circle)
Magenta	● (One red circle)
Yellow	● (One yellow circle)
Black	● (One black circle)
White	○ (One white circle)
Clear	○○ (Two white circles)



- Insert the ink IC chip included in the package with the ink. The ink IC chip stores information such as the ink color, remaining amount, and expiration date. Printing is not possible if an incorrect ink IC chip is inserted.

Chapter 2 Printing



This chapter

This chapter describes printing procedures and settings.

Adjusting Print Head Height	52	Head Cleaning.....	71
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Test Printing	69	Printing	78
Changing the Layout Direction for Test		Changing the origin	78
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2.1 Adjusting Print Head Height

Adjust the height of the print head according to the thickness of the media you are using.

Range	Gap between print head and platen
Low	2 mm (default setting)
Middle	2.5 mm
High	3 mm



- Be sure to correct the dot position after altering the print head height. "Correcting the Drop Position"(P. 74)
- The print head height should normally be set to 3.0 mm (recommended value). With inkjet printers, if the gap between the print head and media increases, the ink droplets may vaporize before they reach the media. Vaporized ink will adhere to the print head nozzle surface, media, and cooling fan filter. The amount of reflected light incident on the print head surface from the UV-LED unit will also increase. Reflected light may cure vaporized ink adhering to the nozzle surface. This will increase viscosity, reduce print quality, and generate print head faults.

1 On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.

- The Maintenance menu is displayed.

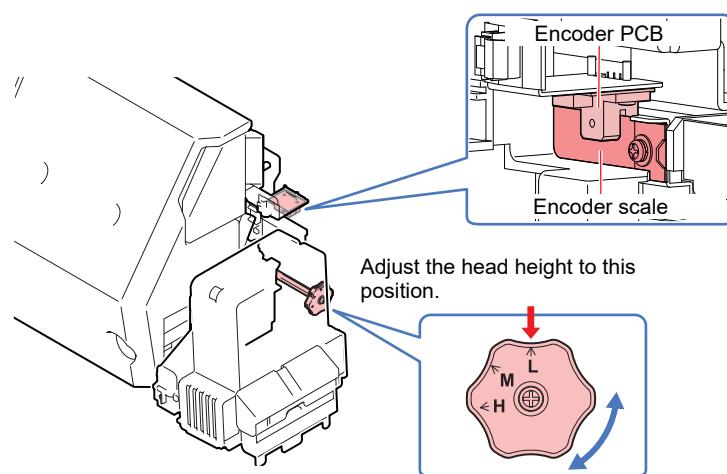
2 Select [Station Maint.] > [Carriage Out] > [Station Maint.], then press the [ENTER] key.

- The carriage moves over the platen.

3 Open the front cover.

4 Use the height adjustment lever to adjust the height.

- Set the height adjustment lever so that the desired height is at the top. If the lever is not set to the correct position, problems such as media jamming and misting may occur, resulting in impaired print quality.



- Be careful not to touch the encoder scale or encoder PCB when using the height adjustment lever.

5 Once adjustment is complete, close the cover, then press the [ENTER] key.

2.2 Loading the Media



- Adjust the head height before loading media. Moving the carriage after the media has been loaded may result in the print head coming into contact with the media and being damaged.

Media

● Media handling precautions



- Use Mimaki-approved media to ensure consistent high-quality printing.

⚠ WARNING



- Assign at least two people to load roll media. Otherwise there is a risk of back injury due to the weight of the media.

NOTICE



- Protect media from dust when stored. Otherwise print quality may be reduced.
- When storing standard-size media rolled up, store with the coated surface facing out.
- Static electricity countermeasures (such as ionizers, anti-static bars, water mist humidification, and alcohol-based anti-static agents) should be provided for the media. Do not use anti-static agents that contain surfactants.



- Do not leave the media in the machine when not in use. Otherwise dust may accumulate on the media. Do not use media that has been wiped free of dust. Wiping media can generate static electricity, possibly affecting print quality.
- Do not use media immediately after removing it from the package. The media may expand or contract depending on the temperature and humidity of the location in which it was stored. Allow the media to stand for at least 30 minutes in the same indoor environment as the machine before loading it.
- Do not use media if it is curled. Curled media may not only damage the print head, but may also affect print quality.
- When using UV ink, do not use media that reflects light, such as media containing gold or silver foil. Light reflected from the media surface may cure the ink on the print head, damaging the head. Please note that this is not covered by the warranty.

● Media used with the machine

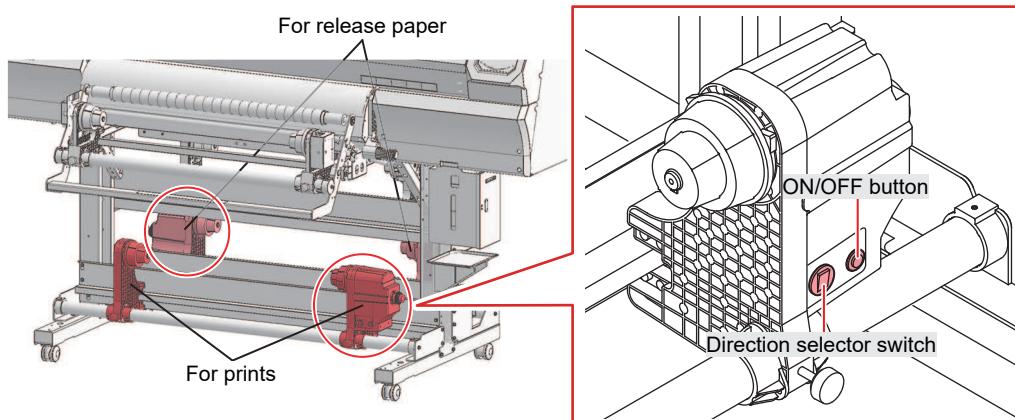
Name	Overview
A Film (Adhesive Film)	<ul style="list-style-type: none"> • Consists of two layers, a glued sheet and release paper. • The glued side after removing the release paper is the print surface.
B Film (Application Film)	<ul style="list-style-type: none"> • This film is applied to the A Film after printing.



- When replacing the A Film (Adhesive Film), also replace the B Film (Application Film) as a set. Depending on the type of B Film (Application Film), the glue from the A Film (Adhesive Film) may stick to the Bonding roller before the end of the B Film (Application Film) is detected.

Take-up Units for Prints and Release Paper

The machine features two take-up units, one for prints on the front and another for release paper at the rear. Use the switch on the take-up unit to change the media take-up direction.



Name	Overview	
Direction selector switch	Up	To take up media with printed surface on the inside
	Down	To take up media with printed surface on the outside
ON/OFF button	Press the button to start/stop the take-up unit. The setting can be altered so that the take-up unit operates only while the button is depressed.  "Machine Setup Menu"(P. 88)	

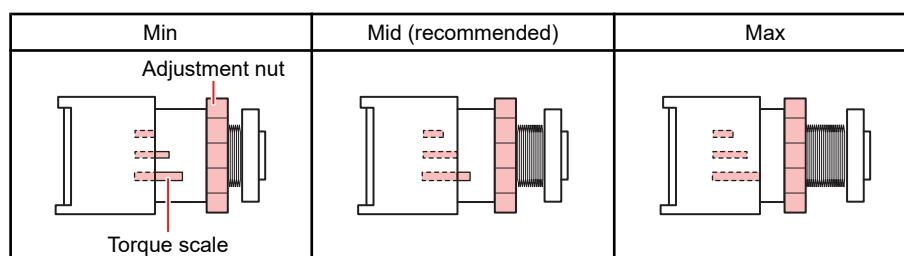


- Prints
 - Excessive tension may adversely affect image quality.
 - Inadequate tension may prevent correct printed media take-up.
- Release paper
 - Excessive tension will cause media to be taken up without being peeled off release paper.
 - Inadequate tension may prevent correct release paper take-up.

Adjusting the torque limiter

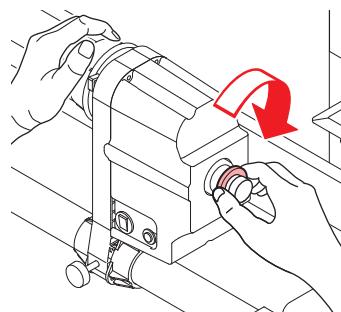
The take-up unit is fitted with a torque limiter.

Turn the torque limiter adjustment nut to adjust take-up tension. As shipped, the torque limiter for prints and release paper is set to "MID".



● Increase tension (clockwise)

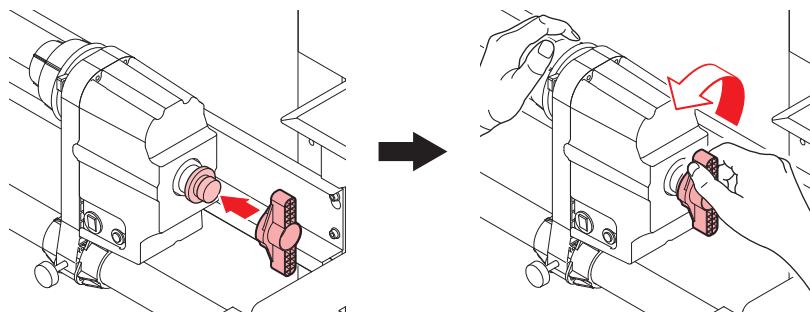
Increase tension when using thick media with base paper made of paper or similar material. Perform adjustments manually.



- Do not use the torque adjustment handle. Using the torque adjustment handle will cause overtightening. Overtightening may damage the take-up unit.

● Decrease tension (counterclockwise).

Decrease tension when using lightweight media. Use the "torque adjustment handle" provided.



● Recommended torque for sheet material

Clamping pressure based on clamp quantity varies depending on the media base paper.

Media base paper	Clamps used		
	3	5	7
Paper	Medium	Strong	Strong
Film	Low	Medium	Strong

Bonding Unit



- Use two hands to move the lever and avoid getting pinched by the bonding roller.
- Move the bonding roller lever slowly.



- Do not lean against or sit on the bonding roller lever.



- When the machine is not in use, raise the bonding roller to separate the roller from the after cover.

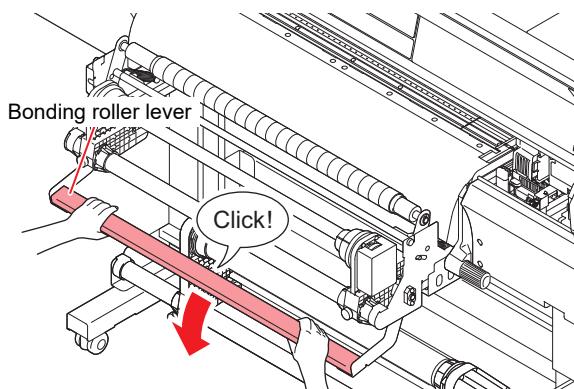
Leaving the roller lowered may cause it to become deformed and prevent normal bonding.

Clamping the B Film (Application Film) up or down

● Switching from clamped down to clamped up

1 Slowly push the bonding roller lever down.

- When the lever clicks, stop pushing down. The unit is now clamped up.

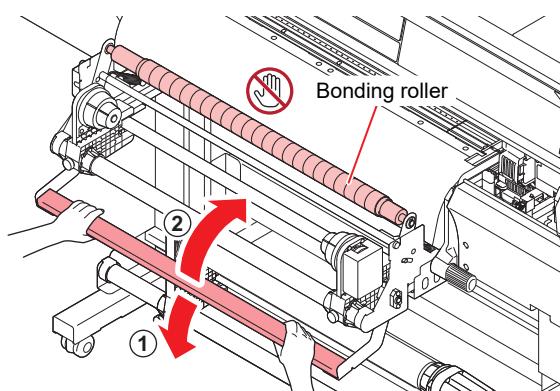


● Switching from clamped up to clamped down

1 Slowly push the bonding roller lever all the way down to unlock it.

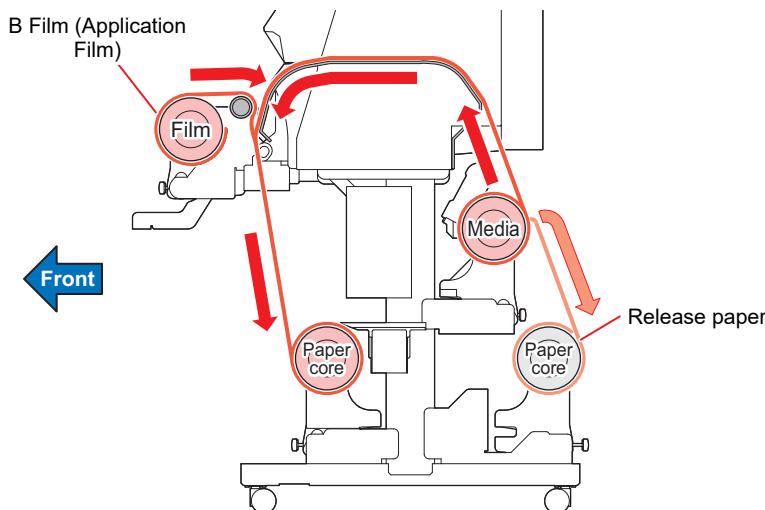
2 Slowly raise the bonding roller lever to clamp the unit down.

- Avoid pinching by the bonding roller.



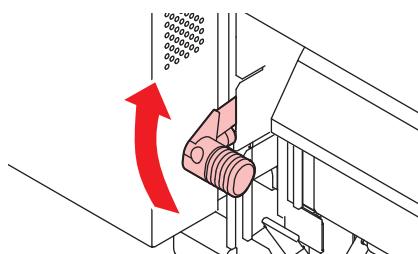
Loading the Roll Media

- Image with media loaded

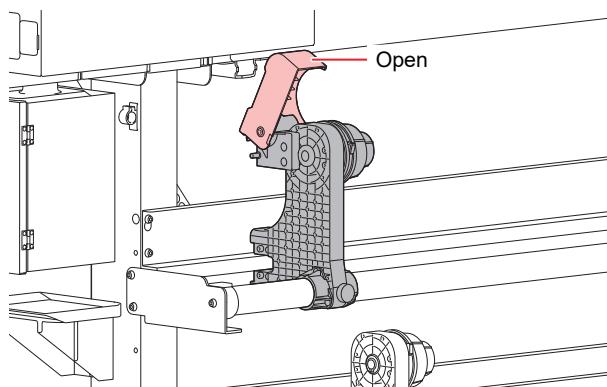


1 Before loading media, make sure the machine is prepared as follows.

- (1) The heater is off.
- (2) The bonding roller is clamped up (not in contact with the after cover).
- (3) The clamp lever is clamped up (pinch and grit rollers are not in contact).

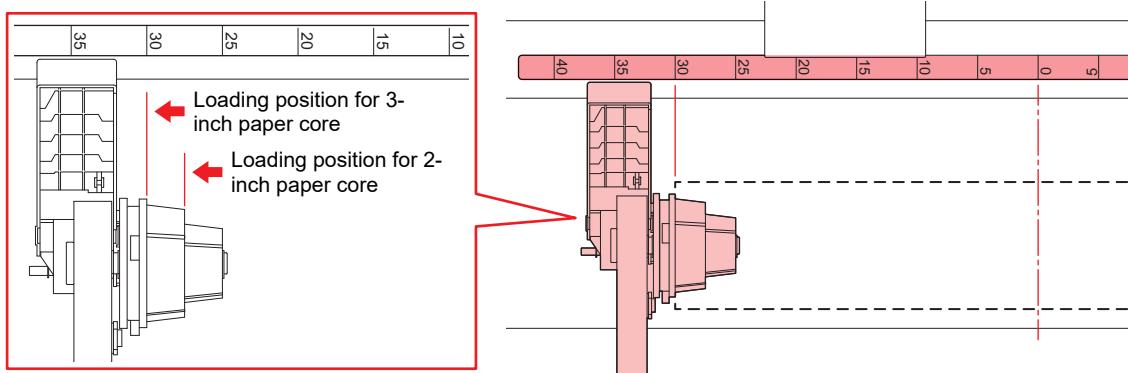


- (4) The rear media stopper is open.



2 Move the rear left roll holder to the roll loading position.

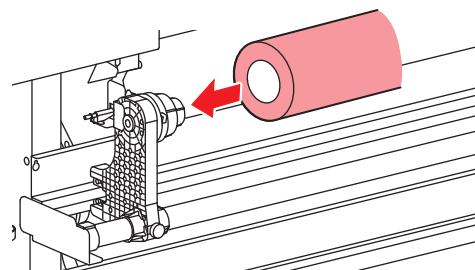
- (1) Loosen the roll holder retaining screw.
- (2) Referring to the media position label, move the roll holder so that the roll media loading position is centered.
 - Example: For 60 cm wide media, align with the "30" marking.



3 Tighten the retaining screw on the rear left roll holder.

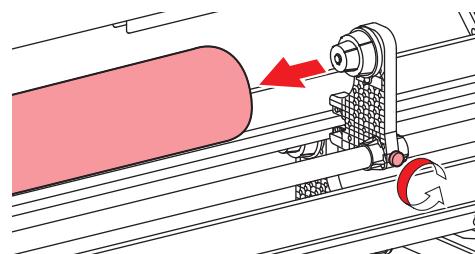
4 Insert the paper core of the roll media on the rear left roll holder.

- Push in until the paper core moves no farther.

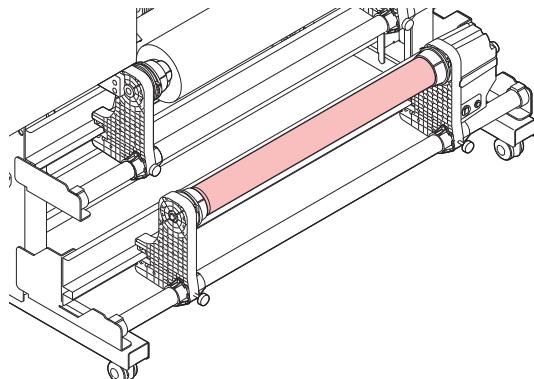


5 Insert the rear right roll holder into the paper core.

- Unscrew the roll holder retaining screw before moving.



6 Tighten the retaining screw on the rear right roll holder.

7 Load an empty paper core on the release paper take-up unit.**8** Insert the media.

- Insert into the gap between the pinch rollers and the grit rollers.



- At this time, do not peel off the release paper yet.

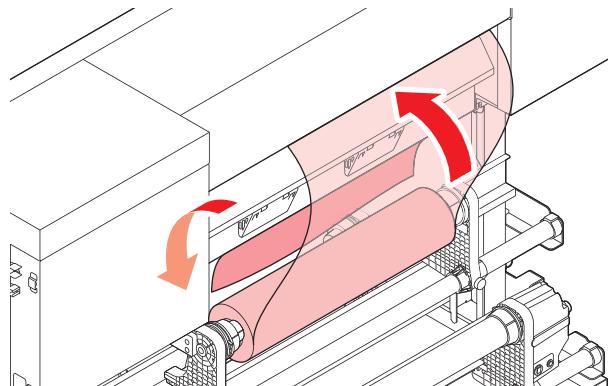


- Inserting the media at an angle allows smooth insertion without catching or sticking.

9 Load the media straight.

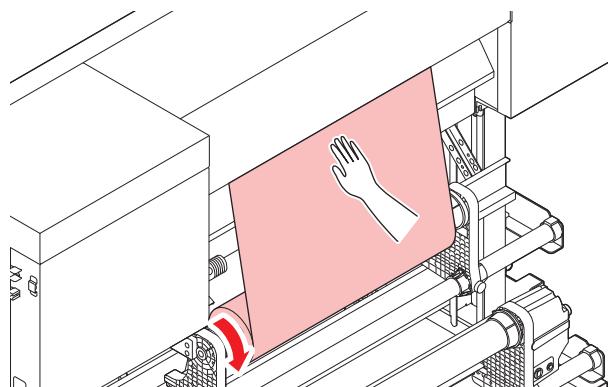
(1) Feed ample media.

- Guideline: Feed enough media so that it is visible from the front.



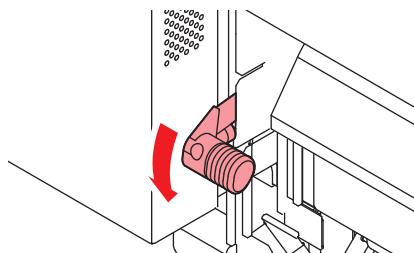
(2) While holding the center of the media with your hand, rotate the roll holder slightly in reverse.

- This will straighten the media.



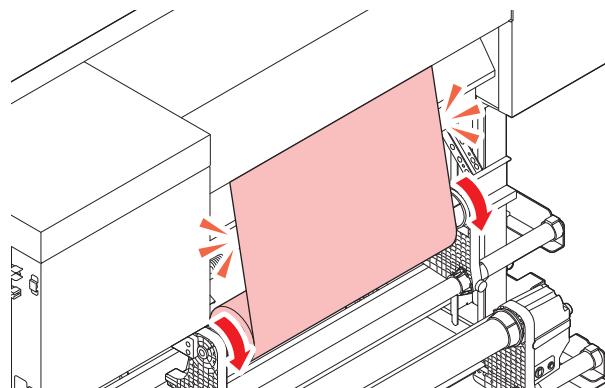
(3) Lower the clamp lever.

- Hold the media with the pinch roller and grit rollers.



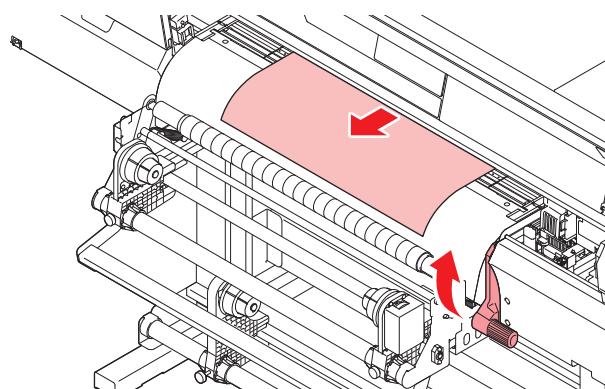
(4) Gently rotate the roll holder in reverse and check the media tension.

- If the tension is even on the left and right of the media, the media is loaded straight.
- If there is unevenness, reload it.

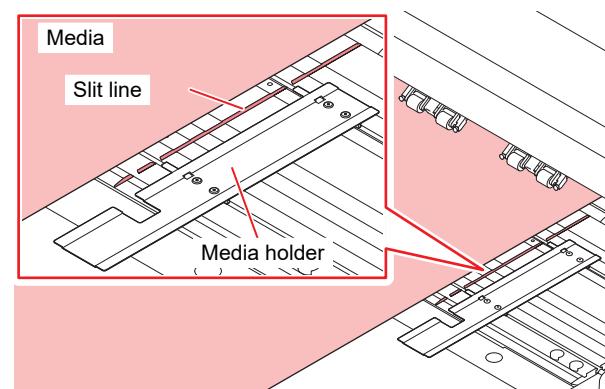


10 Go to the front of the machine and open the front cover.

- Confirm that the media is loaded straight.



- Adjust the rear roll holder position so that the media does not cover the right-hand slit line on the platen. Movement at an angle may result in damage to the print head.

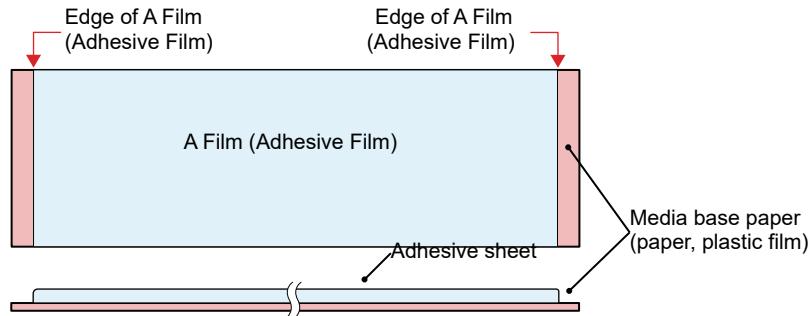




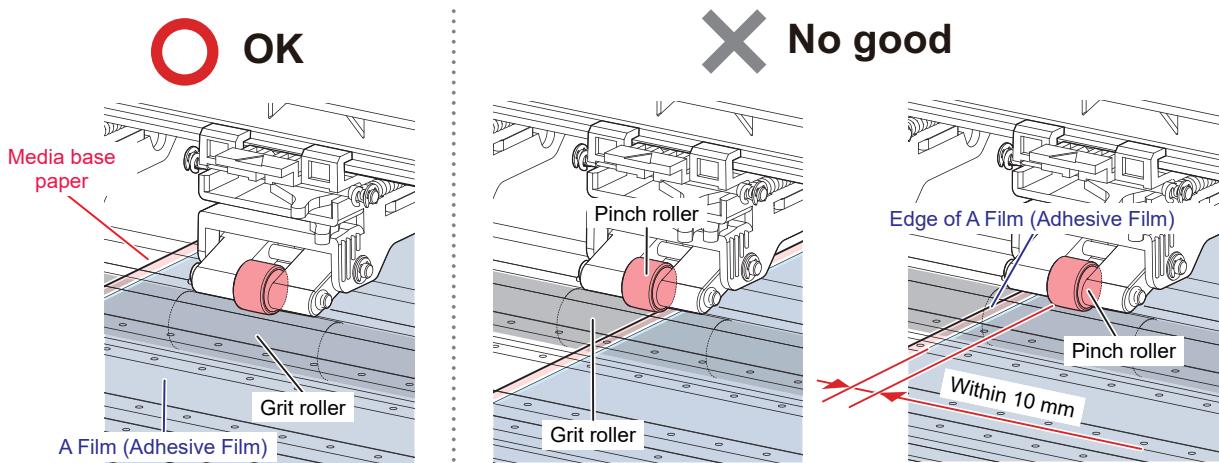
- The areas extending 5 mm from both sides of the media are margins.

11 Check the pinch roller positions.

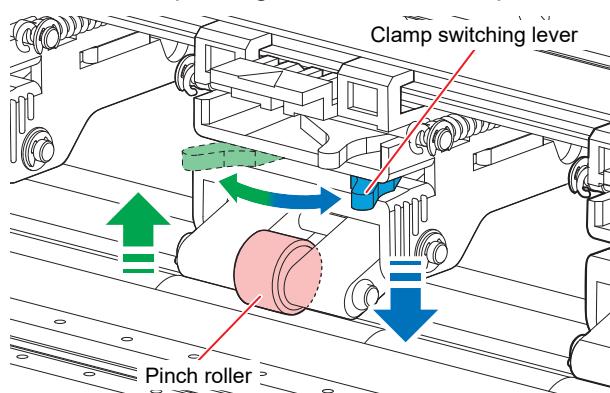
- The premise is that some types of media have A Film (Adhesive Film) inside the media base (paper or plastic film) from both ends.



- Make sure there is no pinch roller within 10 mm from the edge of the A Film (Adhesive Film) and that the pinch roller is not in contact on the grit roller.

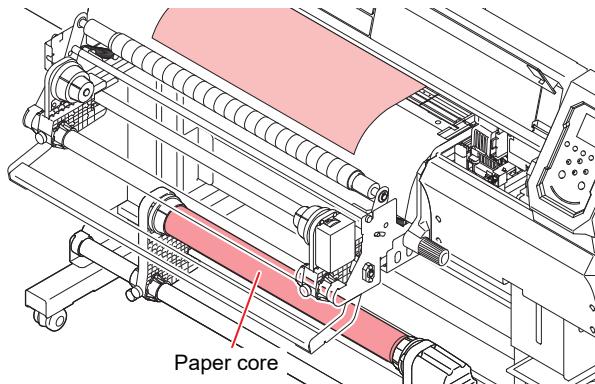


- Pinch rollers not in proper position, contact may cause A Film (Adhesive Film) to get caught in pinch rollers. Move the clamp change lever to raise the pinch rollers.

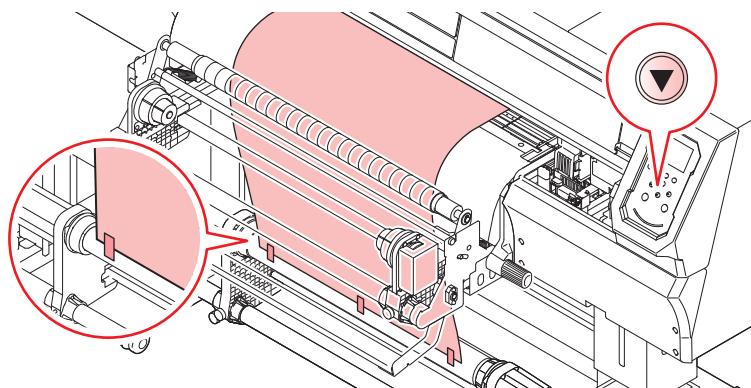


- To raise the pinch rollers: Move the clamp change lever to the left
- To lower the pinch rollers: Move the clamp change lever to the right

12 Load an empty paper core on the take-up unit.



13 Press ▶ to feed the media until it reaches the paper core on the take-up unit, then press the [ENTER] key.



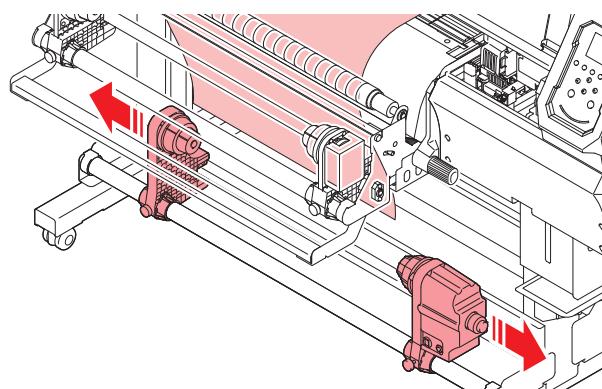
14 Secure the middle of the media to the paper core with adhesive tape.



- If the media edge is straight, secure the left and right sides of the media. Pull the lower edge of the media evenly on the left and right sides, making sure it is not loose or wrinkled, then secure it with tape.

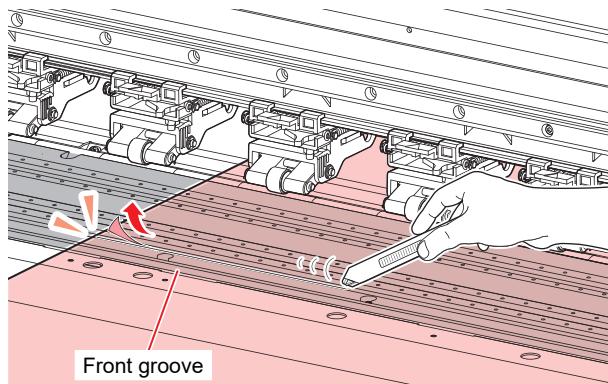


- Always load media centered, not right-aligned.
- When printing with the Bonding roller, be sure to use the take-up unit.
- Move the take-up unit to the left or right when it is not in use. Print quality may be affected if the front edge of the media hits the take-up unit.



15 Cut the media release paper.

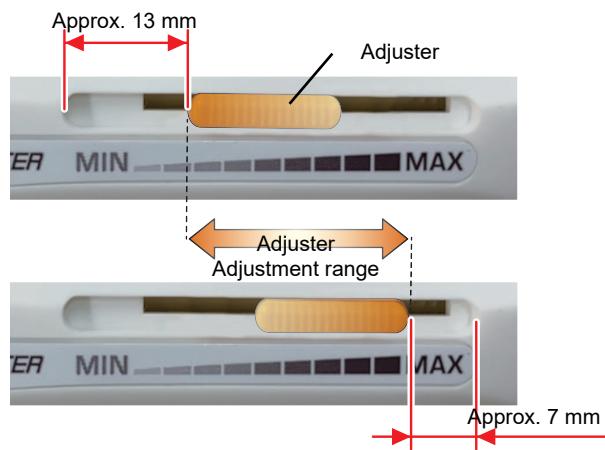
- Cut the release paper along the groove at the front of the platen.



- Recommended cutter
 - Name: OLFA Top Sheet Cutter
 - Part no.: TS-1
- When cutting with an OLFA Top Sheet Cutter, hold the blade tip side against the release paper.

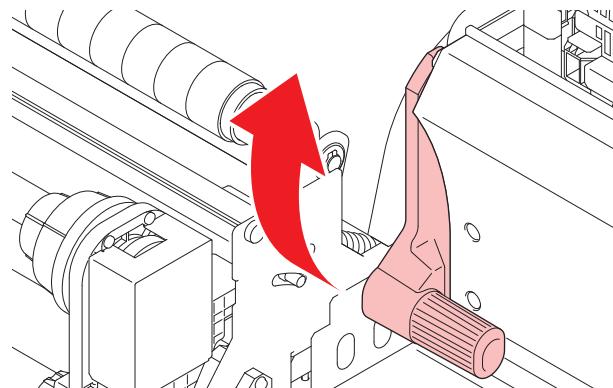


- When cutting release paper with a Top Sheet Cutter, slide the pressure adjuster to adjust blade pressure. Reposition the adjuster as needed for the media, and only cut the release paper. Adjust in a range between (1) and (2) as follows.
 - Minimum: Approx. 13 mm from the adjuster MIN end
 - Maximum: Approx. 7 mm from the adjuster MAX end

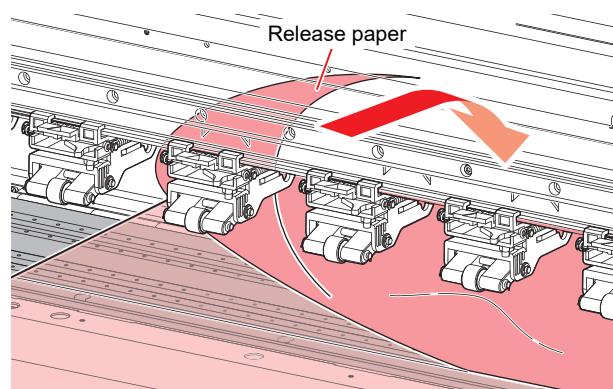


16 Route the rear side of the cut release paper behind the pinch rollers.

(1) Raise the clamp lever.

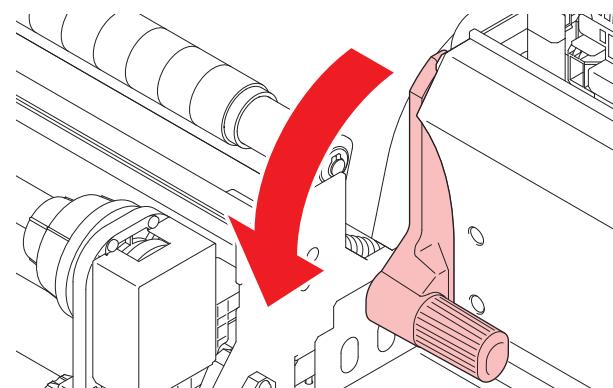


(2) Take the side of the cut release paper that faces the rear of the machine and route it between the pinch and grit rollers. (This is to move it out of the way, behind the machine.)

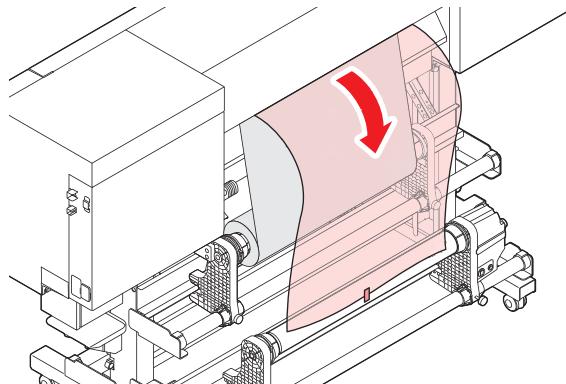


(3) Lower the clamp lever.

- Do not peel away the side of the cut release paper that faces the front of the machine.

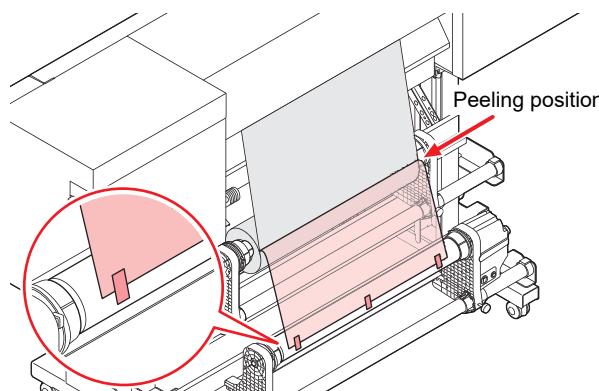


17 Move to the rear of the machine and secure the middle part of the release paper to the paper core of the release paper take-up unit.

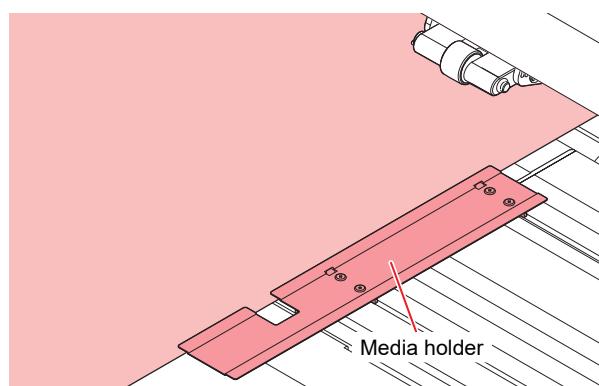


(Important!)

- Manually take up and peel off the release paper up to the position shown below. Pull the lower edge of the taken-up release paper evenly on the left and right sides, making sure it is not loose or wrinkled, then secure it to the paper core with tape. Assuming that the edge of the release paper is cut straight, secure both sides of the release paper to the paper core.



18 Secure the media in the media holder.



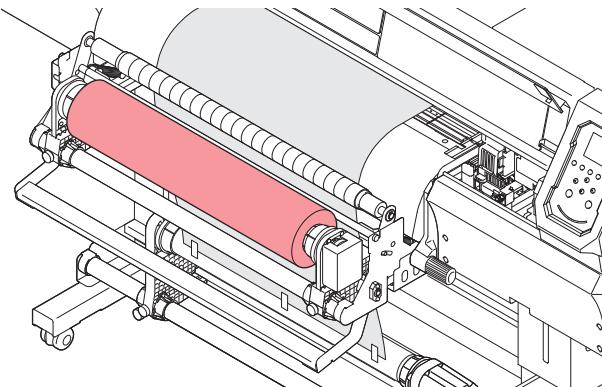
- Do not use the media holder when printing on thicker media. However, when performing media detection, the media should be clamped with a media holder to detect the media width.



- Do not use the media retainer for media with A Film (Adhesive Film) within 6 mm of the media edge. A Film (Adhesive Film) The adhesive may stick to the media holder and cause media jams. Keep the media holder away from either side of the platen when not in use.
- If not using the media holder, change [Machine Setup P. 88] > [Media Detect] > [Detection Type] to "MANUAL".

19 Go to the front of the machine and press  to start media detection.

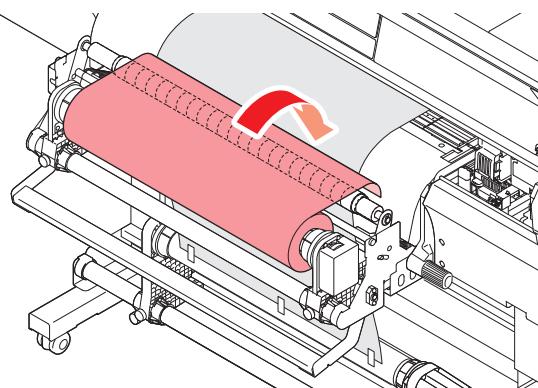
- (1) This starts media width detection.
- (2) A screen is displayed to enter the media length if [Machine Setup] > [Media Detect] > [Media Remain] is set to "ON".

20 Load a roll of application film in the B Film (Application Film) feeding unit.

- (1) Secure the left roll holder to suit the media width.
- (2) Insert a roll of B Film (Application Film) in the left roll holder unit.
- (3) Insert the right roll holder into the paper core to secure it.

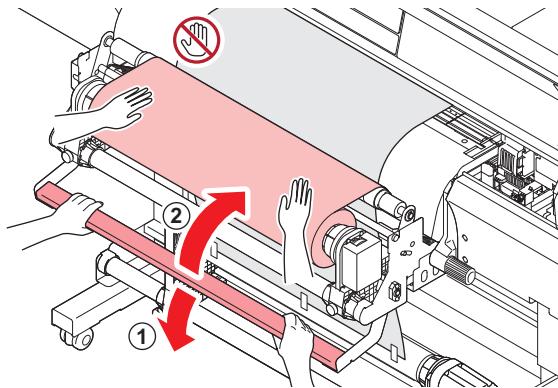
21 Insert the B Film (Application Film).

- If one person applies the B Film (Application Film) to the media, refer to  "If you work alone"(P. 68).



- (1) Insert between the bonding roller and post-heater.
 - Be careful about how much B Film (Application Film) you insert. Inserting too much may cause it to become caught on the Bonding roller and interfere with take-up. (Guideline: To the extent that it covers the crimping rollers).
- (2) Make sure the B Film (Application Film) is not loose or wrinkled.

22 Lower the Bonding rollerl to apply the B Film (Application Film) to the media.



- (1) Have one person hold the B Film (Application Film) down with their hands.
- (2) While one person holds down the film, the other lowers the bonding roller lever.
 - Use both hands to move the bonding roller lever.
 - Avoid getting your hands or fingers pinched by the bonding roller.

23 Set the heater temperature to 60°C or higher.

- (1) Select [SEL] > [FUNC1], then press the [ENTER] key.
- (2) Set the heater temperature to at least 60°C.



- Before use, wait until the heater temperature reaches at least 60°C. Before use, wait until the heater temperature reaches at least 60°C. Otherwise, B Film (Application Film) may get caught on the Bonding roller.

If you work alone

1 Insert the B Film (Application Film).

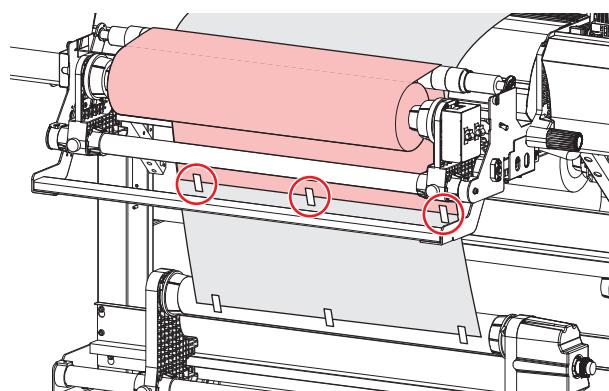
- Insert the B Film (Application Film) between the crimping roller and the post heater.

 • Insert the roller about halfway between the crimping roller and the take-up unit.

2 Tape the B Film (Application Film) to the media.

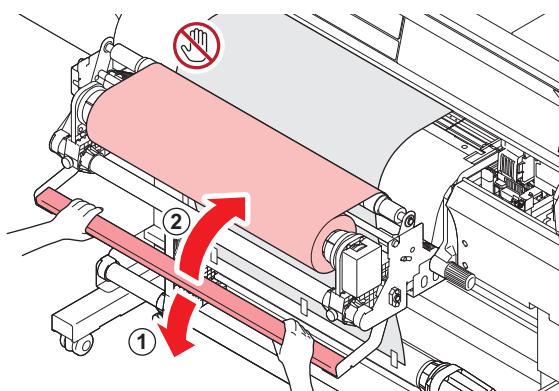
- (1) Turn the B Film (Application Film) roll holder counterclockwise to apply tension to the B Film (Application Film) and tape it in one place in the center of the media.
- (2) Make sure the B Film (Application Film) is not loose or wrinkled.

3 Apply tape to the left and right sides of the B Film (Application Film) as well, for a total of three places to secure it to the media.



4 To lower the Bonding roller.

- Use both hands to move the bonding roller lever.
- Avoid getting your hands or fingers pinched by the bonding roller.



5 Set the heater temperature to 60°C or higher.

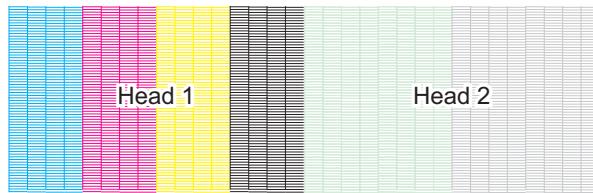
- (1) Select [SEL] > [FUNC1], then press the [ENTER] key.
- (2) Set the heater temperature to at least 60°C.



- Before use, wait until the heater temperature reaches at least 60°C. Otherwise, B Film (Application Film) may get caught on the Bonding roller.

2.3 Test Printing

Print a test pattern to confirm that the ink prints correctly. Perform head cleaning if you observe any ejection failures (e.g., nozzle clogging or deflection).  ["Head Cleaning"\(P. 71\)](#)



Check beforehand

- Was the print head adjusted?  ["Adjusting Print Head Height"\(P. 52\)](#)
- Is media loaded?  ["Loading the Media"\(P. 53\)](#)



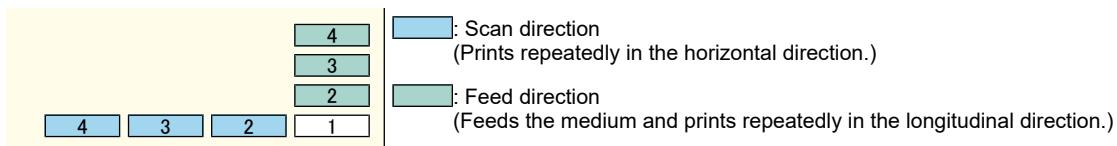
- Load media at least 300 mm wide. You cannot print the entire pattern if media less than 300 mm wide is used.



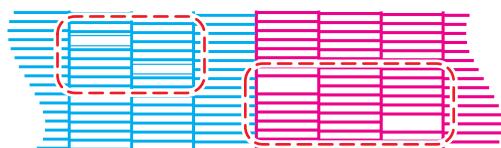
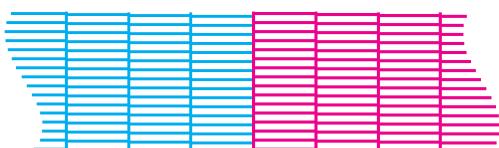
- Select [Maintenance] > [Nozzle Recovery] > [Test Print], then select "ON" to perform nozzle recovery and test printing.
Registration is required to perform nozzle recovery.  ["Registering Nozzle Recovery"\(P. 86\)](#)

Changing the Layout Direction for Test Printing

You can change the layout direction for test printing.



- On the LOCAL mode screen, select [TEST PRINT/CLEANING] > [Test Print], then press the [ENTER] key.
 - The Test Print menu is displayed.
- Select [Scan Dir.] or [Feed Dir.], then press the [ENTER] key.
 - Test printing starts.



- Check the print results.

Checking White Ink Ejection

The following two methods are available for checking white ink:

- Print on clear film.
- Print the background for the test pattern using black ink.

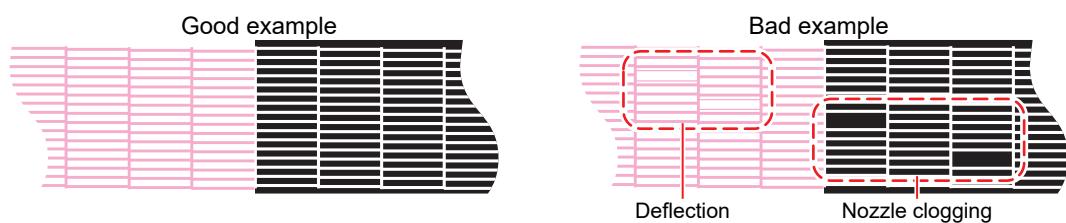
● Method for printing the background using black ink

1 On the LOCAL mode screen, select [TEST PRINT/CLEANING] > [Test Print], then press the [ENTER] key.

- The Test Print menu is displayed.

2 Select [SpotColor Check], then press the [ENTER] key.

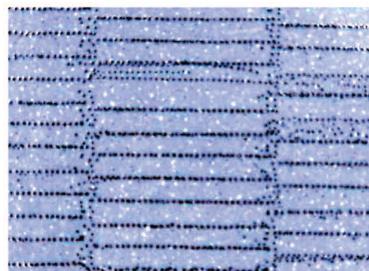
- Test printing starts.
- The layout direction is fixed at [Scan direction].



3 Check the print results.

Ejection Failures

Typical examples of ejection failures (e.g., nozzle clogging, deflection) are as shown below. In order to prevent printing in such a state, check whether the ink has been properly ejected regularly before printing.



Nozzle Deflection



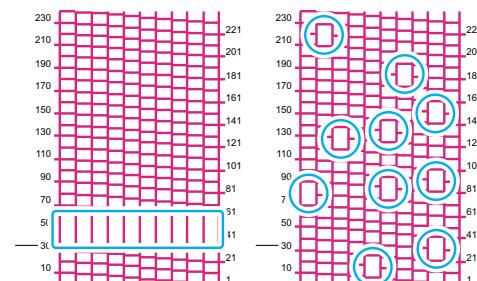
Nozzle clogging



Ink drips



Mist



Mixed air

2.4 Head Cleaning

The following head cleaning methods are available. Choose the method based on test results.

Item	Details
Soft	If the print shows bent lines (nozzle deflection)
Normal	If the print shows missing lines (nozzle clogging)
Hard	If soft cleaning and normal cleaning fail to resolve ejection failures (e.g., nozzle clogging or deflection).
Ultra	If hard cleaning fails to resolve ejection failures (such as nozzle clogging or deflection) or color mixing



- Cleaning is not possible when [Ink Near End] or [Ink End] are displayed. Replace with new ink.
 ["Ink Replacement Method"\(P. 43\)](#)



- The ink used in the machine is warmed before printing. Printing and cleaning is disabled while the ink is being warmed.

1 On the LOCAL mode screen, select [TEST PRINT/CLEANING] > [Cleaning], then press the [ENTER] key.

- The Cleaning menu is displayed.

2 Select the cleaning type, then press the [ENTER] key.

3 Select the Head to clean, then press the [ENTER] key.

- Check the check box. Heads with checked check boxes will be cleaned.

4 Run another test print and check the print results.

- Repeat the cleaning and test printing process until the print results appear normal.



- Do the following if head cleaning fails to resolve ejection failures such as nozzle clogging or deflection.
 -  ["Wiper Cleaning"\(P. 97\)](#)
 -  ["Cap Rubber Cleaning"\(P. 100\)](#)
 -  ["Print Head Nozzle Washing"\(P. 131\)](#)

2.5 Feed Correction

Changing the media may affect the feed amount due to various factors, including the weight and thickness of the media and whether the take-up unit is used. Correct the drop position to suit the type of media used. Image defects (e.g., dark or light streaks) will result if the feed is not properly corrected.

Check beforehand

- Is media loaded?  "Loading the Media"(P. 53)
- For roll media, is the rear roll media free of sagging?
- When using the take-up unit, was the media mounted on the paper core of the take-up unit?  "Loading the Roll Media"(P. 57)

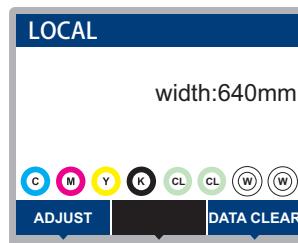
Feed Correction Procedure

Print a correction pattern, then enter the correction value. The value corrected here will also be updated on the setup menu.



- When using the take-up unit, load media on the take-up unit before correcting.

1 On the LOCAL mode screen, select [ADJUST].

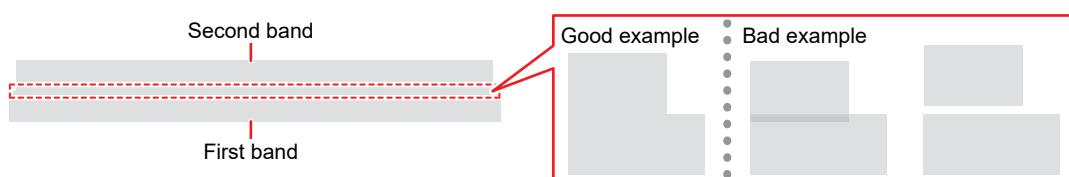


2 Select [Feed Comp.], then press the [ENTER] key.

- Correction pattern printing starts.

3 Check the print results.

- A correction value input screen appears.
- Adjust the bands so that the region between them is evenly colored.



4 Enter the correction value, then press the [ENTER] key.

- "+" input: Increases the separation between bands.
- "-" input: Reduces the separation between bands.
- Increment the correction value by "30" to move the bands by approximately 0.1 mm.

5 Press the [ENTER] key.

- Print another correction pattern to check.



- Once adjustment is complete, the medium will be fed to the print origin. Sagging may occur in the rear roll medium. Rewind roll media by hand to eliminate any sagging.

Correcting the Media Feed During Printing

You can also correct the media feed amount in REMOTE mode or while printing.

- 1 Press [ADJUST] in REMOTE mode or while printing.
- 2 Enter the correction value, then press the [ENTER] key.
 - Correction value: -9999 to 9999
 - The value entered here will be updated immediately.

2.6 Correcting the Drop Position

Changing the media and print head height will also alter the drop positions. Correct the drop position to suit the type of media used. Image defects (e.g., overlaid lines or blurred images) will result if the drop position is not properly corrected.

Check beforehand

- Was the print head adjusted?  "Adjusting Print Head Height"(P. 52)
- Is media loaded?  "Loading the Media"(P. 53)

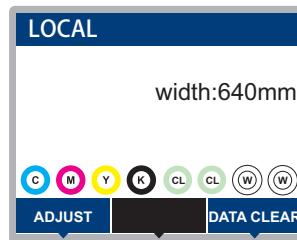


- Load media at least 500 mm wide. You cannot print the entire pattern if media less than 500 mm wide is used.

Drop Position Correction Procedure

Print a correction pattern, then enter the correction value. The value corrected here will also be updated on the setup menu.

- On the LOCAL mode screen, select [ADJUST].



- Select [Drop.PosCorrect], then press the [ENTER] key.

- Select the resolution, then press the [ENTER] key.

- Select the resolution to be adjusted. If you select "All", correction patterns for all resolutions will be printed.



- The indicated resolutions are those in the scan direction.

- Select the color to use with the media type, then press the [ENTER] key.

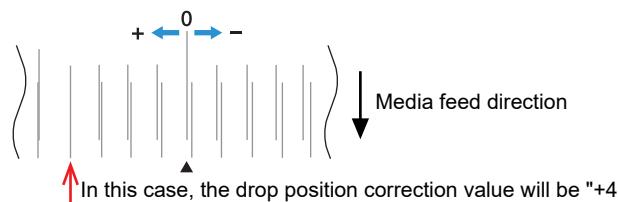
- Pressing the [FUNC2] key switches the color to use.



- Select Wh for transparent media and Cy for white-based media.

- Check the print results.

- A correction value input screen appears.
- Enter the position where the two upper and lower lines coincide.



6 Enter the correction value, then press the [ENTER] key.

- Correction value: -40 to 40



- If the lines do not coincide when the correction value is within the range -40 to 40, the print head height may have been improperly adjusted. Adjust the print head height.
 ["Adjusting Print Head Height"\(P. 52\)](#)

7 Enter the correction value in the same way for pattern 2 and subsequent patterns.

2.7 Preparing RIP data

The explanation here applies to MIMAKI RIP software (RasterLink).



- Prepare suitable image data for printing.

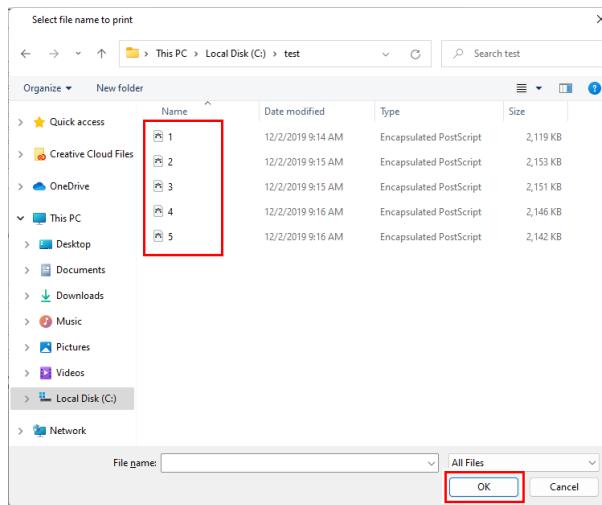
1 Launch RasterLink.

- Click the icon on the PC desktop.



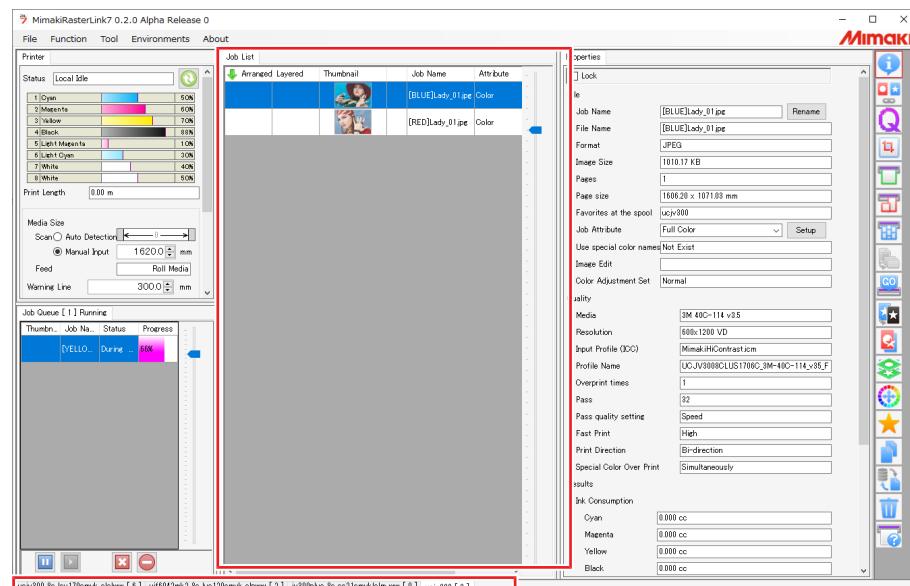
2 Select the image data to print.

- (1) Select [File] > [Open].
- (2) Select the desired image data, then click [Open].
 - If multiple printers are registered, select UJV300DTF-75 in "Printer Name".



3 Select the image data imported.

- The image is displayed in the tab for UJV300DTF-75 selected in "Printer name".



4 Check and adjust the settings as needed.

- Specify the following settings by clicking the function icons shown on the right-hand side of the screen:



(Normal printing): Specifies settings such as enlargement/reduction and number of copies.



(Quality): Selects a color profile for the media and ink set loaded in this machine.



- For more information, refer to the RasterLink reference guide. <https://mimaki.com/download/software.html>

5 Print image data.

- Click (execute) from the function icons on the right-hand side of the screen. Select "Immediate Print" or "RIP and Print", then click [Start].



- Media width must be reacquired after replacing media.

(1) Select the tab for UJV300DTF-75 in the main window.

(2) Click (Update the printer status) in the Printer tab.

(Important) When printing data with a total length not exceeding 60mm, the end of the B film (application film) may not be detected.

- If the image data to be printed is 60mm or smaller in size, create the data so that the total length of a single print data exceeds 60mm by using functions such as "adding margin at the rear end" or "multiple data placement using the copy function".

2.8 Printing

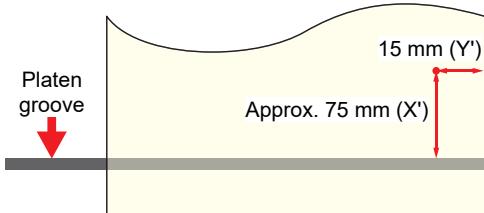
Check beforehand

- Was the head gap adjusted?  "Adjusting Print Head Height"(P. 52)
- Is media loaded?  "Loading the Media"(P. 53)
- For roll media, is the rear roll media free of sagging?
- When using the take-up unit, was the media mounted on the paper core of the take-up unit?  "Loading the Roll Media"(P. 57)

Changing the origin

The print start position can be altered. Use the LED pointer to set the origin.

- Print origin default value
 - Feed (longitudinal, X') direction: Approx. 75 mm to rear from platen cutting slot
 - Scan (lateral, Y') direction: 15 mm from right edge of media



1 On the LOCAL mode screen, press .

- The Origin Setup screen appears.

2 Press to move the origin to the desired position.

- The carriage moves left and right and feeds the medium.

3 Press the [ENTER] key.

- The origin is updated.

Starting Printing

1 Press [REMOTE].

- The machine switches to REMOTE mode and is ready for printing.

2 Send the RIP data from the PC.

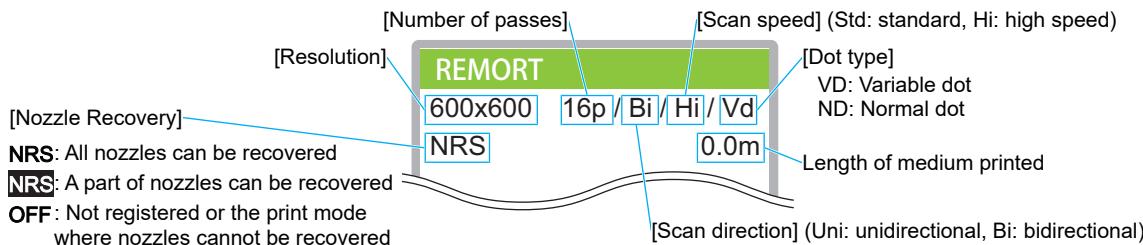
-  "Preparing RIP data"(P. 76)



- If an error message appears, check the appropriate action by referring to the error number. Error messages

3 Start printing.

- Printing starts once RIP data is received.



- Print speeds may differ for the same image data, depending on the width of the medium loaded, print origin position, and resolution.
- If an error occurs, the machine switches to LOCAL mode once printing is completed. Further printing is not possible.

Pausing Printing

1 Press [LOCAL] while printing is in progress.

- Printing is paused.
- If data is being sent from a PC, data transmission is paused at the PC.

2 Press [REMOTE].

- Printing resumes.



- No other functions can be used when printing is paused.

Stopping Printing (Data Clear)

1 On the LOCAL mode screen, select [DATA CLEAR].



2 Press the [ENTER] key to clear the received data.

- The receive buffer is cleared.

Chapter 3 Setup



This chapter

This chapter describes the [MENU] functions.

Setup Menu	82	Machine Setup Menu	88
Maintenance Menu	85	Nozzle Check Menu	90
Registering Nozzle Recovery	86	Information Menu	91

3.1 Setup Menu

Print conditions (settings 1 to 4) can be saved in advance for specific media.

● Menu List

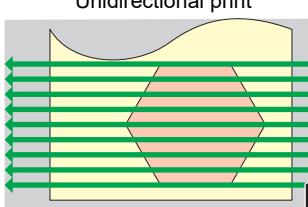
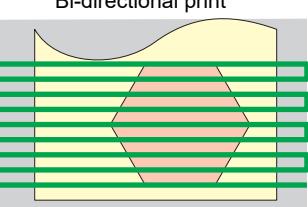
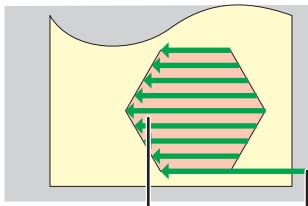
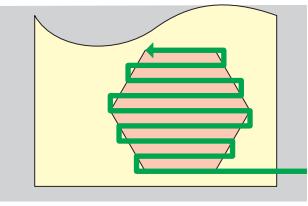
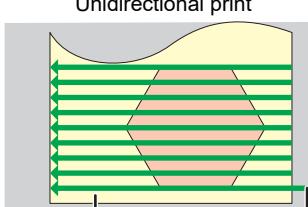
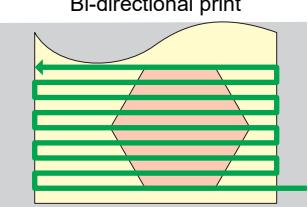
The user can select to prioritize the settings on the machine or the settings on the PC. Setting individual menus to "Host" prioritizes PC settings. To prioritize settings for this machine, select a setting other than "Host".



- For more information on how to specify RIP software, refer to the RIP software operating manual.

*1. The default settings are shown underlined.

*2. Settings applied if no settings can be made in the RIP software (host) or if this machine is prioritized.

Item	Setting		Details
	*1	*2	
Feed Comp.	-9999 to <u>0</u> to 9999	-	Corrects the media feed amount. • Print a pattern and enter the correction amount.
Drop.PosCorrect	-40.0 to <u>0</u> to 40.0	-	Corrects the drop position for bi-directional printing. • Print a pattern and enter the correction amount.
Logical Seek	Host/OFF/ON/ Media Width	OFF	<p>Sets the range of carriage movement.</p> <ul style="list-style-type: none"> • OFF: Machine size area <p>Unidirectional print</p>  <p>Bi-directional print</p>  <p>Carriage movement</p> <ul style="list-style-type: none"> • ON: Print data area <p>Unidirectional printing</p>  <p>Bi-directional printing</p>  <p>Print data</p> <p>Carriage movement</p> <ul style="list-style-type: none"> • Media width: Media size area (This is supported in firmware version 2.8 and later) <p>Unidirectional print</p>  <p>Bi-directional print</p>  <p>Media</p> <p>Carriage movement</p>

Item	Setting		Details
	*1	*2	
Heater	AFTER	OFF /20 to 70 °C	Preheats media to make bonding easier.
	OFF time	None/0 to 90 min	Sets the time before turning the heater off after printing.
Margin/Left	Host/0 to 85 mm	0 mm	<p>Sets the offset value from the media left and right standard margins (15 mm).</p> <ul style="list-style-type: none"> The Mimaki RIP software (RasterLink) does not allow the user to specify margins. If the machine is set to "Host", the offset value will be "0 mm" for the left and right margins.
Margin/Right			
Vacuum Fan	Strong/Weak/Standard/Host	Strong	<p>Sets the force with which the medium is held down.</p> <ul style="list-style-type: none"> This can be used to prevent media jamming and print head damage caused by the media lifting up.
Continuous Running	ON/OFF		<ul style="list-style-type: none"> ON: The media is constantly held down under vacuum. OFF: The media is held down by vacuum only when required, such as during printing and feeding.
Feed Speed	Host/10 to 100 to 200 %	100	<p>Sets the media feed speed.</p> <ul style="list-style-type: none"> Depending on print conditions, the speed may not vary for certain settings. Setting to 100 % or more reduces the time required to complete printing but may affect print quality due to insufficient drying time.
Auto Cleaning	-	-	<p>Sets the conditions to start head cleaning automatically.</p> <ul style="list-style-type: none"> Use this setting in case of ejection failures (such as nozzle clogging or deflection).
Setup	File/Length/Time/OFF	-	Starts head cleaning Timing conditions are exceeded.
Interval	-	-	-
(File)	1 to 1000	-	Sets the interval when a "file" is selected. After printing a set number of files, cleaning is performed at the start of printing the next file.
(Length)	0.1 to 100.0 m	-	Sets the interval when "Length" is selected. Cleaning is executed when the set print length is exceeded.
(Time)	10 to 120 min	-	Sets the interval at which the "Time" is selected. Cleaning is executed when the set print time is exceeded.
Type	Normal/Soft/Hard	-	Sets the head cleaning type.
Cleaning Check	ON/OFF	-	Sets whether nozzle checking is performed after head cleaning is completed.
Interval Wiping	3 to 255 min	-	<p>Sets the time to automatically start print head wiping. The print head is wiped once the printing time exceeds the preset value, even if printing is in progress.</p> <ul style="list-style-type: none"> Use this setting in case of problems such as ink droplets dripping.

Item	Setting		Details
	*1	*2	
UV mode	<u>ON/OFF/</u> NoPrint	ON	Sets whether to turn on the UV-LED lamp. <ul style="list-style-type: none">ON: Turns on the UV-LED lamp.OFF: Does not turn on the UV-LED lamp.NoPrint: Turns on the UV-LED lamp without printing. (Not used under ordinary conditions)
UV AdjVal	-50 to 0 to 50 %	-	You can change the preset UV lamp brightness. <ul style="list-style-type: none">Minus direction: Reduces hardness.Plus direction: Increases hardness. <p>* Check the print results for stickiness and odor.</p>
MAPS4	-	-	MAPS: Mimaki Advanced Pass System <ul style="list-style-type: none">This function disperses the boundaries between passes to make feed streaks between passes less visible.Altering MAPS may alter the color. This function may be less effective with certain types of images.
MAPS4	<u>AUTO/</u> MANUAL	-	This should normally be set to "AUTO". When set to "MANUAL", the following items are displayed:
Smoothing Level	0 to 100 %	-	Increasing smoothing makes streaks less visible.
Speed	50 to 100 %	-	Reducing speed will make streaks less visible. However, printing will be slower.
Ionizer	-	-	Sets the ionizer (optional). For more information, refer to the operating manual for the ionizer. <ul style="list-style-type: none">Displayed when an option is connected.
Setup Reset	-	-	Initializes the details set.

3.2 Maintenance Menu

This menu is used for maintenance actions. It also lets the user perform nozzle recovery if nozzle clogging persists even after cleaning and nozzle washing.

● Menu List

*1. The default settings are shown underlined.

Item	Setting ^{*1}	Details
Station Maint.	-	This moves the carriage to allow station and print head maintenance.
Carriage Out	-	
Station Maint.	-	Cleans around the station, including the cap, wiper, and NCU. "Wiper Cleaning"(P. 97) "Cap Rubber Cleaning"(P. 100) "NCU Cleaning"(P. 101)
Head Maint.	-	Cleans around the print head. "Carriage Underside Cleaning"(P. 101) "Media Sensor Cleaning"(P. 105) "Cleaning the Mist Filter"(P. 103) "Mist Filter Replacement"(P. 119)
Nozzle Wash	-	Washes the print head nozzle surface with maintenance liquid to resolve ejection failures (such as nozzle clogging or deflection). "Print Head Nozzle Washing"(P. 131)
Pump Tube Cleaning	-	Washes the suction pump tube (below the cap). "Ink Discharge Channel Cleaning"(P. 104)
Custody Wash	-	Perform this step if the machine will not be used for extended periods. Washes nozzles and drainage channels to keep the machine operating smoothly. "When this Printer is Left Unused for a Long Time"(P. 114)
Replace Wiper	-	Use this function when replacing the wiper. Replacing the wiper resets the wiper usage counter. "Wiper Replacement"(P. 116)
Pinch roller	-	Clean or replace the pinch roller when the message appears and when the A Film (Adhesive Film) is disturbed or stuck to the pinch roller.
Cleaning	-	Used to clean pinch rollers. When pinch roller cleaning is performed, the pinch roller usage distance is initialized from the last time it was cleaned. "Pinch roller Cleaning"(P. 108)
Replacement	-	Used to replace pinch rollers. When the pinch roller is replaced, the pinch roller usage distance managed by the machine is initialized. "Pinch Roller Replacement"(P. 121)
Nozzle Recovery	-	Allows other nozzles to be used for printing if nozzle washing or other maintenance fails to resolve ejection failures (such as nozzle clogging or deflection).
Print	-	Prints a pattern to check nozzle condition and register the nozzle. "Registering Nozzle Recovery"(P. 86)
Entry	-	Registers the nozzle without printing a pattern.
Reset	-	Initializes the details set.

Item	Setting ^{*1}	Details
Test Printing	ON/OFF	Sets whether to perform nozzle recovery before test printing.
Auto Maint.	-	Sets various maintenance actions to be performed automatically. Set the interval between individual maintenance actions. <ul style="list-style-type: none"> If the warning message "Replace Wasteinktank" appears, the automatic maintenance function is disabled.  "Waste Ink Tank Replacement"(P. 125) Beside the automatic maintenance function, the function for reapplying the negative pressure during sleep is executed in sleep mode. This maintains negative pressure inside the head during sleep by regularly applying negative pressure. This is executed every 15 minutes in the first one hour, and then at intervals of 30 minutes.
Refresh	0.5 to <u>4.0</u> h	Sets the refresh interval. <ul style="list-style-type: none"> Ejects a small amount of ink from the print head nozzles. This will help prevent nozzle clogging.
Cleaning Interval	1 to <u>12</u> h	Sets head cleaning intervals. <ul style="list-style-type: none"> Cleans the print head. This will help prevent nozzle clogging.
Cleaning Type	Normal/ <u>Soft</u> / Hard	Sets the cleaning type for head cleaning.
Fill Up Ink	-	Fills the ink to resolve ejection failures (such as nozzle clogging or deflection).
Replace Wasteinktank	-	Resets or corrects the waste ink tank usage count.  "Waste Ink Tank Replacement"(P. 125)
Overflow	-	Performed when the "InkOverflow" error is displayed. <ul style="list-style-type: none"> Drains excess ink from the sub tank to resolve ink overflows. If the error is not cleared, execute this operation repeatedly. If it persists even after three attempts, contact your local dealer or our service office.
Air PG	-	Use this if ink colors are mixed or if the mixed air causes nozzle clogging. Purge ink and air inside the print head from the port in front of the carriage.  "Ink colors are mixed."(P. 132)

Registering Nozzle Recovery

Allows other nozzles to be used for printing if maintenance actions like nozzle washing fail to resolve print defects (e.g., nozzle clogging, deflection).



- Nozzle recovery can be specified for up to 10 nozzles per row. The time taken for printing remains unchanged even when nozzle recovery is set.



- Load media at least 500 mm wide. You cannot print the entire pattern if media less than 500 mm wide is used.

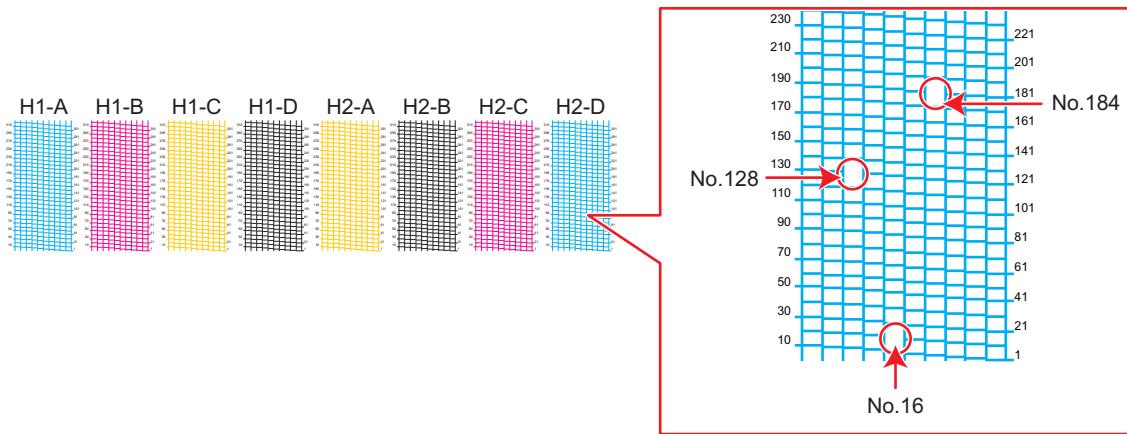
1 Position the media.

2 On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.

- The Maintenance menu is displayed.

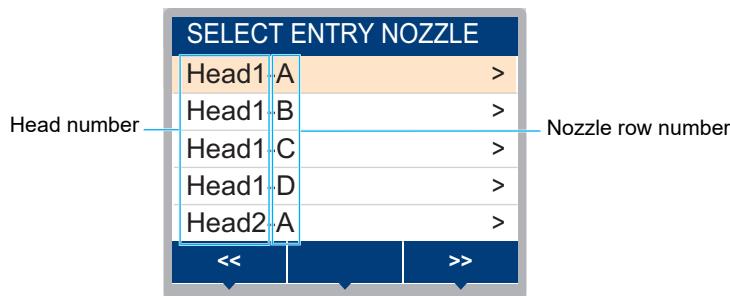
3 Select [Nozzle Recovery] > [Print], then press the [ENTER] key.

- Print a nozzle recovery pattern.
- The Select Entry Nozzle screen appears once printing is complete.



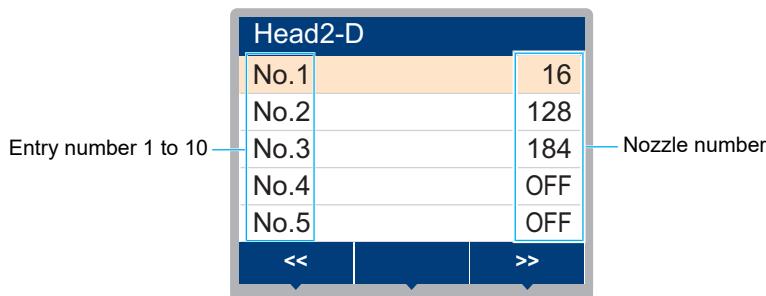
- For 6-color ink sets, "H1-B" and "H1-D" are not printed.

4 Select the "head number and nozzle row" for nozzle recovery, then press the [ENTER] key.



5 Enter the "nozzle number" for nozzle recovery, then press the [ENTER] key.

- Select the entry number before entering the nozzle number.
- Nozzle recovery is set.



6 Press the [ENTER] key once entry is complete.



- Select [Maintenance] > [Nozzle Recovery] > [Test Print], then select "ON" to perform nozzle recovery and test printing. "Test Printing"(P. 69)

3.3 Machine Setup Menu

This is used to set various operations to ensure optimal machine performance.

● Menu List

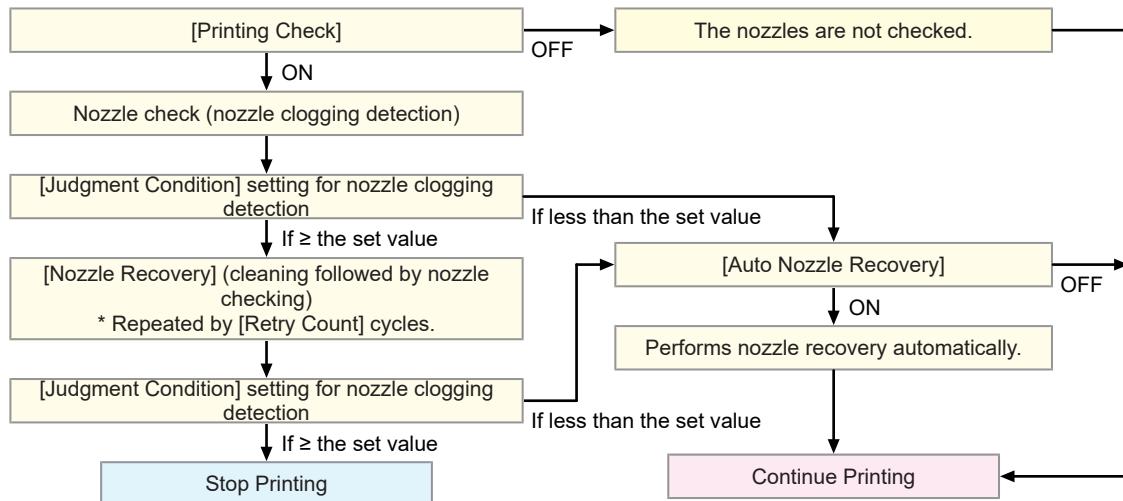
*1. The default settings are shown underlined.

Item	Setting *1	Details
Auto Power-off	10 to <u>60</u> mins	Sets the time until the power is automatically turned off.
Take-up Unit	-	Sets the take-up unit operation.
Take-up Unit	<u>ON</u> /OFF	Set to "OFF" if the take-up unit is not used.
Take-up SW	<u>Continuous</u> / Temporary	Sets the function performed by the ON/OFF button on the take-up unit in LOCAL mode. <ul style="list-style-type: none"> Continuous: Press the button to start/stop the take-up unit. Temporary: The take-up unit operates only while the button is pressed. The unit stops when the button is released.
Media Remain	<u>ON</u> / <u>OFF</u>	The remaining roll media amount can be displayed and printed out in REMOTE mode. <ul style="list-style-type: none"> ON: An input screen appears once the media width is detected. ① Press to set the media length. Press the [FUNC3] key on the "Origin Setup" screen to print the date and remaining media amount. OFF: The remaining media amount is not displayed.
Media detect	-	Sets the media width detection method.
Detection Type	<u>AUTO</u> / MANUAL	<ul style="list-style-type: none"> AUTO: The media width is automatically detected with the sensor. MANUAL: Press to set the media width manually. <ul style="list-style-type: none"> Set the method to "MANUAL" when the media holder is not used.
Time Set	-20h to <u>0</u> to +4h	Sets the current time and date. (With respect to JST) <ul style="list-style-type: none"> This can be set within the range of -20 to +4 hours.
UNIT / TEMP	<u>°C</u> / <u>°F</u>	Sets the display unit for temperature (Celsius/Fahrenheit).
UNIT / LENGTH	<u>mm</u> /inch	Sets the display units for length and area. <ul style="list-style-type: none"> Some items are displayed in "mm" even if "inch" is selected.
Key Buzzer	<u>ON</u> /OFF	Sets an audible tone when keys are pressed. <ul style="list-style-type: none"> Audible signals indicating errors, warnings, and operation end cannot be muted, even if "OFF" is selected for this setting.
View Feed	<u>ON</u> /OFF	Sets whether or not to feed the media forward to view the print results—for example, during test printing.
Bonding Feed	<u>ON</u> /OFF	Sets whether the machine automatically feeds to the bonding roller position if the next print data is not sent after online printing.

Item	Setting ^{*1}	Details
Network	-	Sets the network address. The machine must be restarted to enable this setting.
Check IP Address	-	Displays the machine's current IP address. <ul style="list-style-type: none"> It may take some time to determine the IP address. If the IP address cannot be determined, the display will indicate "0.0.0.0".
Check MAC Address	-	Displays the machine's current MAC address.
DHCP	ON/OFF	Select "ON" to use the IP address assigned by the DHCP server.
AutoIP	ON/OFF	Select "ON" to use the IP address set by the AutoIP protocol. Note that DHCP takes priority if DHCP is set to "ON".
Ip Address	-	Sets the IP address used by the machine. <ul style="list-style-type: none"> This can be set when both [DHCP] and [AutoIP] are disabled.
Default Gateway	-	Sets the default gateway used by the machine. <ul style="list-style-type: none"> This can be set when both [DHCP] and [AutoIP] are disabled.
DNS Address	-	Sets the DNS server address used by the machine. <ul style="list-style-type: none"> This can be set when both [DHCP] and [AutoIP] are disabled.
Sub Net Mask	-	Sets the subnet mask used by the machine. <ul style="list-style-type: none"> This can be set when both [DHCP] and [AutoIP] are disabled.
Auto Remote	ON/OFF	Sets whether to automatically switch to REMOTE mode and start printing if data is received locally.
Remote Control	-	An application (MRA: Mimaki Remote Access) is required to use the remote control function. MRA is a remote access tool installed on a computer or smartphone that allows viewing of product information and panel operation from a remote location away from the machine (within the same network segment).
Setup	Enable/Disable	Enable/disable remote control.
PIN code	<u>0000</u> to 9999	Enter the same PIN code as MRA. The PIN code is used for authentication between the machine and MRA. <ul style="list-style-type: none"> When the machine is set to "0000", MRA can access the machine with any PIN code.
KeyLife	5 to <u>30</u> to 120 min	Sets the time interval before disconnecting the machine and MRA if no operations are performed using MRA.

3.4 Nozzle Check Menu

This is used to check if the nozzles are clogged before printing. Sets whether to perform maintenance functions automatically if nozzle clogging is detected.



● Menu List

- *1. The default settings are shown underlined.
- *2. Nozzle recovery is not available for certain print conditions.



- If an error occurs during the nozzle check operation, the next print will be automatically stopped, and [Printing Check] will be set to "OFF". Clear the error, then set [Printing Check] to "ON" manually.

Item	Setting *1	Details
Printing Check	ON/ <u>OFF</u>	Performs nozzle clogging detection before printing starts.
Check Interval	-	Sets the nozzle clogging detection timing.
Length	0.1 to <u>30.0</u> to 50.0 m	Performs nozzle clogging detection after the length set is reached and before the next print starts.
File	1 to <u>30</u> to 100 files	Performs nozzle clogging detection after the preset number of files has been printed and before the next print starts.
Action	-	Performs nozzle recovery (cleaning followed by nozzle checking) if "nozzle clogging" is detected.
Cleaning	<u>Soft</u> /Normal/Hard	Sets the cleaning type.
Retry Count	<u>0</u> to 3 times	Performs nozzle recovery (cleaning followed by nozzle checking) for the specified number of times.
Auto Nozzle Recovery	ON/ <u>OFF</u>	Performs nozzle recovery automatically if "nozzle clogging" is detected. See below if you wish to perform nozzle recovery manually.  "Registering Nozzle Recovery"(P. 86)
Judgment Condition *2	OFF/ <u>1</u> to 64 nozzles	Set the number of nozzles to be detected as clogged before "nozzle clogging" is detected. Up to 16 nozzles per row can be set. The next print will not start if "nozzle clogging" is detected during continuous printing.

3.5 Information Menu

This is used to check machine information.

● Menu List

Item		Details
Usage	WIPING	Displays the wiping count. • To reset this count, press the [FUNC2] key while the count is displayed.
	Waste Ink Tank	Displays the approximate level of waste ink in the waste ink tank as a percentage. • To reset waste ink levels, press the [FUNC1] key while the level is displayed.
	Print Length	Displays the total length printed.
	Print Area	Displays the total area printed.
	Use Time	Displays the total time the power has been turned on.
	UV Lamp	Displays the total time the UV lamp has been used.
	Pinch roller	The accumulated print length of the pinch rollers is displayed.
Version		Displays the machine firmware and other versions.
Ink replacement report		Prints the ink history.
Error History		Displays the error and warning history. • These are listed in chronological order. Use the keys to cycle through occurrence time/date and error/warning information.
List		This is used to print machine information.

Chapter 4 Maintenance



This chapter

To ensure years of precise performance, maintain the machine periodically based on frequency of use.

Read the maintenance precautions thoroughly before maintaining this product.

Maintenance Precautions	94	Replacement of Consumable Item	116
Maintenance Methods	95	Wiper Replacement	116
Maintenance Items and Timing	95	Cap Absorber Replacement	117
Ink Maintenance	97	Mist Filter Replacement	119
Wiper Cleaning	97	Exhaust Fan Filter Replacement	120
Cap Rubber Cleaning	100	Pinch Roller Replacement	121
NCU Cleaning	101	Media Holder Replacement	123
Carriage Underside Cleaning	101	Waste Ink Tank Replacement	125
Cleaning the Mist Filter	103	Ink Bottle Cap Replacement	127
Ink Discharge Channel Cleaning	104		
Media Sensor Cleaning	105		
Media Holder Cleaning	106		
Jam Sensor Cleaning	106		
Platen Cleaning	107		
Cover (Exterior) Cleaning	108		
Pinch roller Cleaning	108		
Bonding Roller Maintenance	111		
When this Printer is Left Unused for a Long Time	114		

4.1 Maintenance Precautions



- This machine includes parts that must be replaced periodically. We therefore recommend taking out a maintenance contract. Carry out maintenance periodically and replace consumable items to prevent quality defects and accidents.

⚠ WARNING



- Clean periodically. Debris and dust will accumulate on electrical components when the machine is used for extended periods. There is a risk of failure, electric shock, or fire due to current leakage.
- Do not clean by blowing—e.g., avoid using air blowers. Doing so may lead to failure, electric shock, or fire involving the machine if airborne debris or dust gets inside electrical components. Wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out. A vacuum cleaner may also be used for cleaning.
- Be careful to prevent liquids from getting inside the machine. Otherwise there is a risk of failure, electric shock, or fire.

⚠ CAUTION



- The UV-LED unit becomes extremely hot. Be careful not to touch the LED after it has been turned off until it has sufficiently cooled.



- For heavy soiling, wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out.



- Pay close attention to ventilation and be sure to wear safety glasses, gloves, and a mask when handling ink, maintenance liquid, waste ink, or other solutions used with the machine. Leaking ink may adhere to the skin or get into the eyes or mouth.



NOTICE



- Never touch the print head nozzle surface. Do not allow water or alcohol to come into contact with the print nozzle surface. This will increase the risk of machine failure or ejection failures (e.g., nozzle clogging or deflection).
- Do not use cotton swabs to clean around the head or carriage. Fibers from cotton swabs may adhere to the head nozzle surface and lead to ejection failures (e.g., nozzle clogging or deflection).
- Do not splash ink or maintenance liquid on the covers. Exposure to splashing ink or maintenance liquid may damage or deform the cover.
- Do not use benzine, thinner, or any chemical agent containing abrasives. Use of these chemicals may result in damage to or deformation of parts.
- Do not use organic solvents such as acetone and IPA. Doing so may damage the machine.
- Do not move the carriage by hand. To move the carriage, use the carriage out function on the menu.

4.2 Maintenance Methods

Maintenance Items and Timing

Timing	Item
At the end of the work day	Clean the wiper and wiper bracket.  "Wiper Cleaning"(P. 97)
	Clean the wiper cleaner.  "Wiper Cleaning"(P. 97)
	Clean the cap rubber.  "Cap Rubber Cleaning"(P. 100)
	Clean the NCU.  "NCU Cleaning"(P. 101)
	Clean the underside of the UV-LED lamp.  "Carriage Underside Cleaning"(P. 101)
	Clean the underside of the carriage.  "Carriage Underside Cleaning"(P. 101)
	Mist filter 1 Soak up ink with a paper towel.  "Cleaning the Mist Filter"(P. 103)
	Clean the media sensor.  "Media Sensor Cleaning"(P. 105)
	Clean the media holder.  "Media Holder Cleaning"(P. 106)
	Clean the jam sensor.  "Jam Sensor Cleaning"(P. 106)
At the end of the week's work	Ink pad in the ink-receiving pan under the wiper Soak up ink with a paper towel.  "Wiper Cleaning"(P. 97)
	Mist filter 2 Soak up ink with a paper towel.  "Cleaning the Mist Filter"(P. 103)
	Clean the ink discharge channel.  "Ink Discharge Channel Cleaning"(P. 104)
	Clean the platen.  "Platen Cleaning"(P. 107)
	Clean the cover (exterior).  "Cover (Exterior) Cleaning"(P. 108)
	Check the waste ink levels in the waste ink tank.
When noticeably dirty	Replace with new exhaust fan filter.  "Exhaust Fan Filter Replacement"(P. 120)
	Replace the exhaust fan box.
When gaps are noticeable	In case of gaps between the foam material on the bonding roller, adjust the position.  "Bonding Roller Maintenance"(P. 111)
	Replace the exhaust fan box.

Timing	Item
When not used for more than a week	Clean the wiper and cap and wash the ink discharge channel. After cleaning, store without turning off the main power supply.  "When this Printer is Left Unused for a Long Time"(P. 114)
Periodically	Shake the Ink bottle.  "Ink Maintenance"(P. 97)
	Replace the caps on the ink bottles.  "Ink Bottle Cap Replacement"(P. 127)
When a message is displayed	Clean the pinch rollers.  "Pinch roller Cleaning"(P. 108)
	Replace the pinch roller.  "Pinch Roller Replacement"(P. 121)

Items Required for Maintenance

To order replacement consumable items, contact your local dealer or our service office. For more information on consumable items, refer to our website (<https://mimaki.com/supply/inkjet.html>).



- Do not store consumable items in locations where children may enter.

Ink Maintenance

If ink constituents are sedimented, the ink density may become uneven. We recommend shaking the Ink bottle periodically to keep printing consistent.

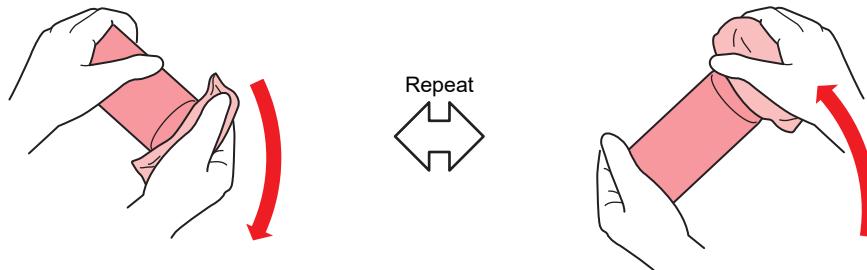
UV ink: once a month.

White ink: once a day.

● Shaking the Ink bottle

1 Shake the Ink bottle to the left and right slowly at least 20 times.

- Tighten the ink bottle lid securely, then shake the bottle slowly from left to right to ensure that the ink moves inside, holding the ink bottle lid with a piece of recommended non-woven fabric.



- Shake slowly. If the bottle is shaken too violently, ink may leak out or the air mixed in the ink may cause nozzle clogging.
- If the ink bottle is partially used, tilt it slowly until the ink bottle is upright.

Wiper Cleaning

The wiper wipes off ink adhering to the print head nozzle surface. Using a dirty wiper with dried ink or dust on it may cause the wiper to rub against the nozzle surface and lead to ejection failures (such as nozzle clogging or deflection).



- Be careful to avoid leaving fragments from the cleaning stick behind when cleaning. These fragments will increase the risk of ejection failures (e.g., nozzle clogging or deflection).

1 On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.

- The Maintenance menu is displayed.

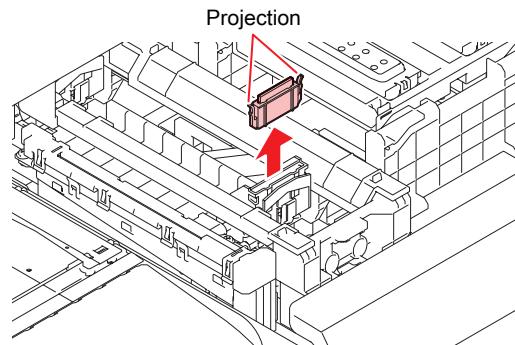
2 Select [Station Maint.] > [Carriage Out] > [Station Maint.], then press the [ENTER] key.

- The carriage moves over the platen.

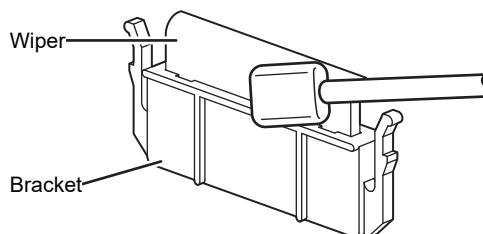
3 Open the front cover.

4 Remove the wiper.

- Hold the lugs on both sides of the wiper bracket, then pull out the wiper.

**5 Clean the wiper and bracket.**

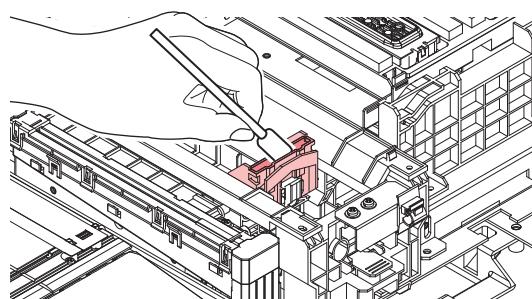
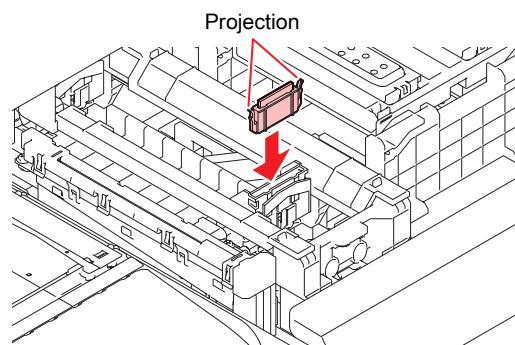
- Wipe off any ink and dust adhering using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.



- Replace dirty or warped wipers with new ones.  ["Wiper Replacement"\(P. 116\)](#)

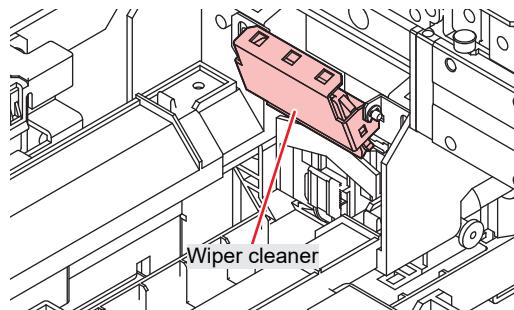
6 Clean the wiper slider.

- Wipe off any ink and dust adhering using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.

**7 Reattach the wiper at the original position.**

8 Clean the wiper cleaner.

- Wipe off any ink and dust adhering using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.



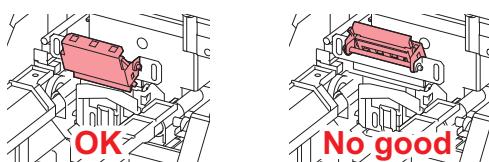
- Only clean the front side of the wiper cleaner. There is no need to clean the backside.



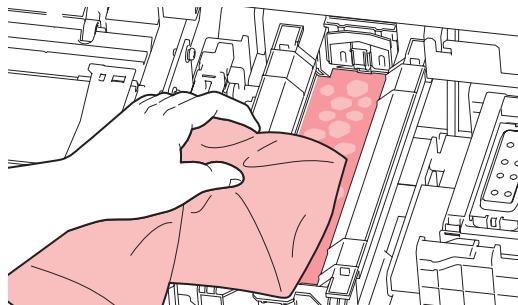
- Do not remove the wiper cleaner from the bracket.



- After cleaning is completed, check to confirm that the wiper cleaner is not facing up.



- Soak up ink in the ink-receiving pan with a paper towel once a week. Failure to do so may result in leaking ink.



- Do not remove the pad in the pad case. Failure to do so may result in leaking ink.

9 Once cleaning is complete, close the cover, then press the [ENTER] key.

Cap Rubber Cleaning

The cap prevents the print head nozzle surface from drying out. Continuing to use a dirty cap may affect ink take-up and lead to ejection failures (such as nozzle clogging or deflection).



- Be careful to avoid leaving fragments from the cleaning stick behind when cleaning. These fragments will increase the risk of ejection failures (e.g., nozzle clogging or deflection).

1 On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.

- The Maintenance menu is displayed.

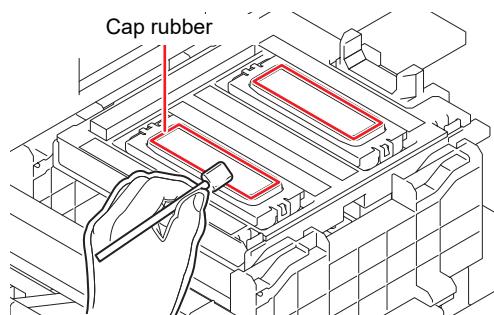
2 Select [Station Maint.] > [Carriage Out] > [Station Maint.], then press the [ENTER] key.

- The carriage moves over the platen.

3 Open the front cover.

4 Clean the cap rubber.

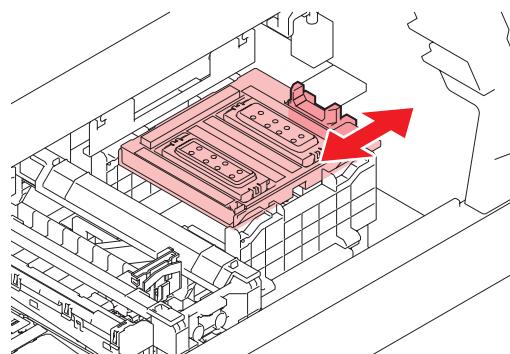
- Wipe off any ink and dust adhering using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.



5 Check to confirm that the cap slider is not tilted once cleaning is complete.



- If the cap slider is tilted, move the slider block to the left or right to correct the tilt.



6 Close the front cover, then press the [ENTER] key.

NCU Cleaning

The NCU uses a sensor to monitor the ink droplets ejected from the print head nozzles. Continuing to use the dirty NCU may prevent the nozzle check function from operating correctly.



- Be careful to avoid leaving fragments from the cleaning stick behind when cleaning. These fragments will increase the risk of ejection failures (e.g., nozzle clogging or deflection).

1 On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.

- The Maintenance menu is displayed.

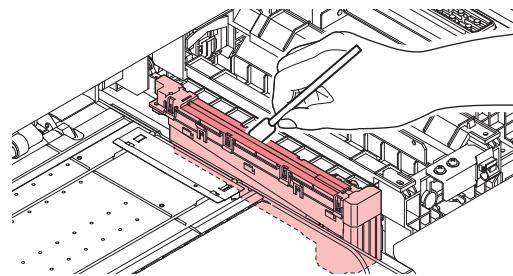
2 Select [Station Maint.] > [Carriage Out] > [Station Maint.], then press the [ENTER] key.

- The carriage moves over the platen.

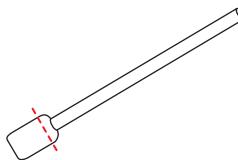
3 Open the front cover.

4 Clean the NCU.

- Wipe off any ink and dust adhering using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.



- Insert the cleaning stick as far as the line shown in the illustration.



5 Once cleaning is complete, close the cover, then press the [ENTER] key.

Carriage Underside Cleaning

The underside of the carriage becomes coated with ink wiped off by the wiper. Continuing to use the dirty carriage underside will rub dried ink and attached dust on to the media, resulting in contaminated prints.

The print head uses an extremely delicate mechanism. Take great care when handling it.



- Be careful to avoid leaving fragments from the cleaning stick behind when cleaning. These fragments will increase the risk of ejection failures (e.g., nozzle clogging or deflection).

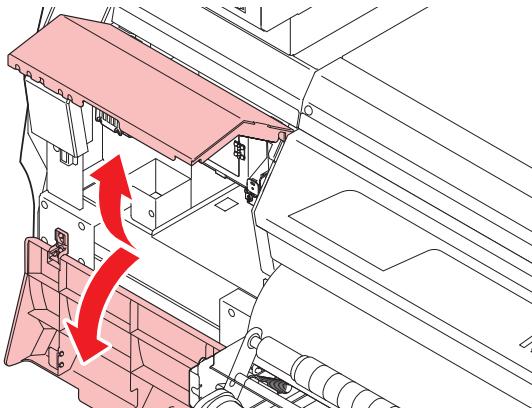
1 On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.

- The Maintenance menu is displayed.

2 Select [Station Maint.] > [Carriage Out] > [Head Maint.], then press the [ENTER] key.

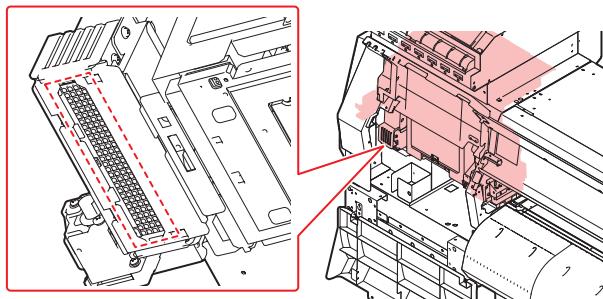
- The carriage moves to the maintenance space.

3 Open the maintenance covers.



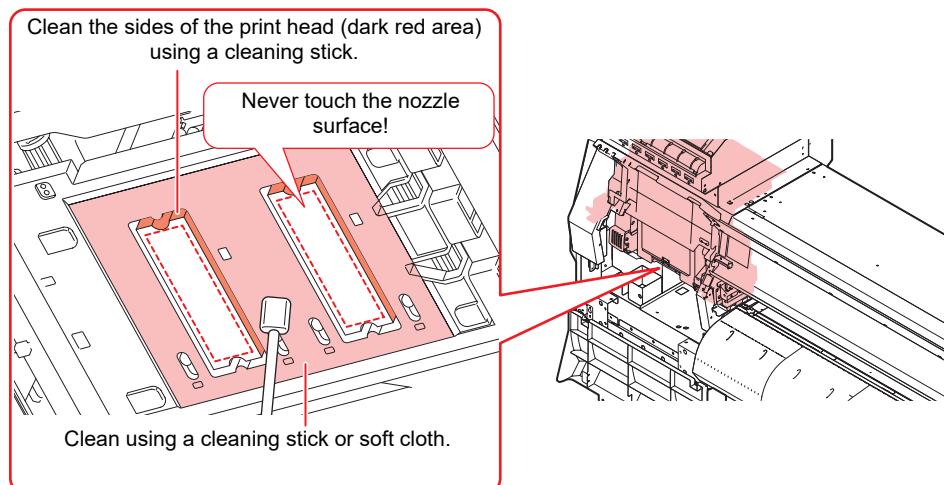
4 Clean the UV-LED lamp.

- Wipe off any adhering ink using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.



5 Clean around the print head.

- Wipe off any ink and dust adhering using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.

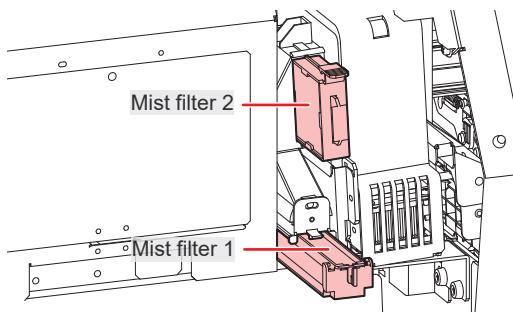


- Never touch the print head nozzle surface.

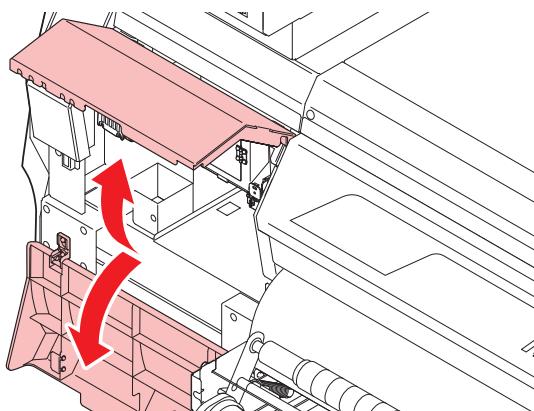
6 Once cleaning is complete, close the cover, then press the [ENTER] key.

Cleaning the Mist Filter

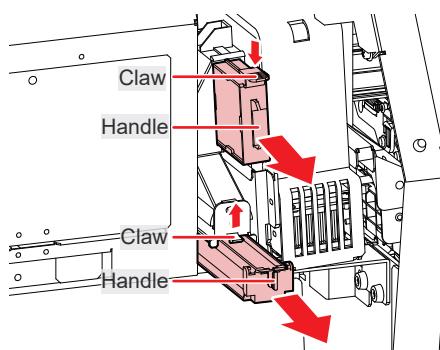
The mist filter absorbs the mist generated when ink droplets are discharged from the print head. Continuing to use it when it is dirty will result in contaminated prints.



- 1** On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.
 - The Maintenance menu is displayed.
- 2** Select [Station Maint.] > [Carriage Out] > [Head Maint.], then press the [ENTER] key.
 - The carriage moves to the maintenance space.
- 3** Open the maintenance covers.



- 4** Remove the mist filter.
 - To remove the mist filter, pull the knob to the front while pushing the tab in the direction indicated by the arrow.

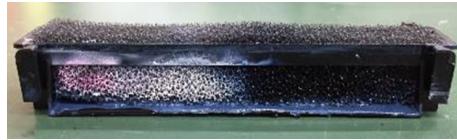


- 5** Clean the filter.
 - Remove the filter and press down on it with a paper towel to remove dirt.
 - Wipe off the dirt adhering to the filter case.



- Replace the mist filter if it gets very dirty—for example, due to liquefaction of ink adhering to the filter.

"Mist Filter Replacement"(P. 119)



6 Reinstall the mist filter in its original position.

7 Once cleaning is complete, close the cover, then press the [ENTER] key.

Ink Discharge Channel Cleaning

Clean the ink discharge channel regularly to prevent clogging of the ink discharge channel below the cap.

1 On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.

- The Maintenance menu is displayed.

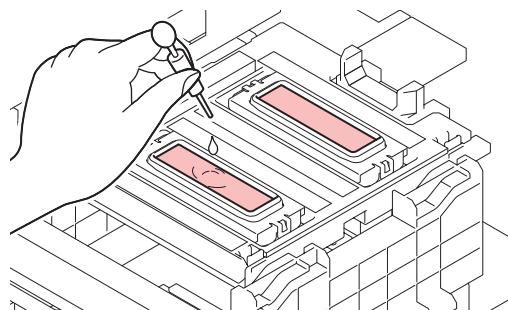
2 Select [Station Maint.] > [Pump tube cleaning], then press the [ENTER] key.

- The carriage moves over the platen.
- "Fill the Liquid. Exit Next [ENT]" appears on the display.

3 Open the front cover.

4 Fill the cap with maintenance liquid.

- Use a syringe to draw up some maintenance liquid and fill until it almost overflows from the cap.

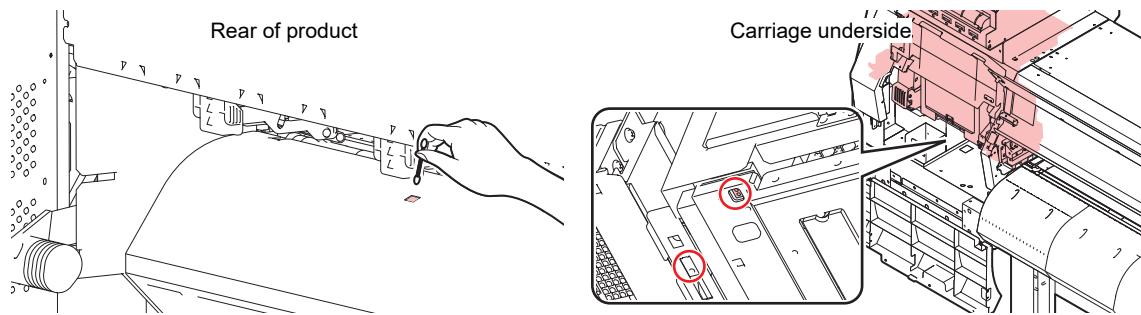


5 Close the front cover, then press the [ENTER] key.

- Pump tube (ink discharge channel below the cap) washing starts.

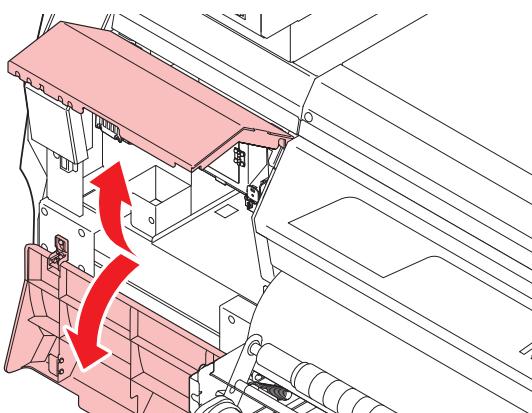
Media Sensor Cleaning

Media sensors are located on the rear cover and carriage underside. The media cannot be detected correctly if dust or debris accumulates on the sensors. Remove any debris using cotton swabs or a soft cloth.



● Cleaning the carriage underside sensor

- 1** On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.
 - The Maintenance menu is displayed.
- 2** Select [Station Maint.] > [Carriage Out] > [Head Maint.], then press the [ENTER] key.
 - The carriage moves to the maintenance space.
- 3** Open the maintenance covers.



- 4** Clean the media sensor.
- 5** Once cleaning is complete, close the cover, then press the [ENTER] key.

Media Holder Cleaning

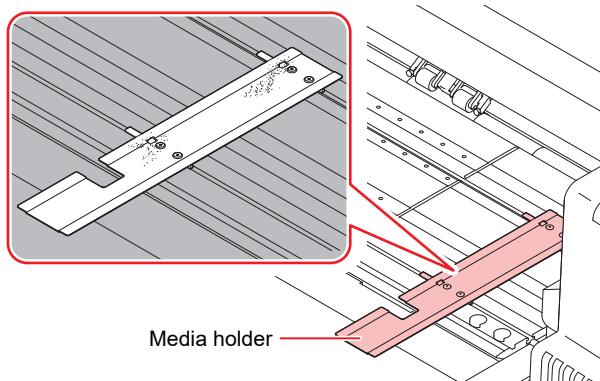


- Turn off the main power supply and unplug the power cable before carrying out maintenance.



- Be careful to prevent liquids from getting inside the machine. Otherwise there is a risk of failure, electric shock, or fire.

Continuing to use the dirty platen will prevent proper feeding of the media. It will also cause dried ink and attached dust to rub against the head nozzle surface and lead to ejection failures (e.g., nozzle clogging or deflection).



- For heavy soiling, wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out.



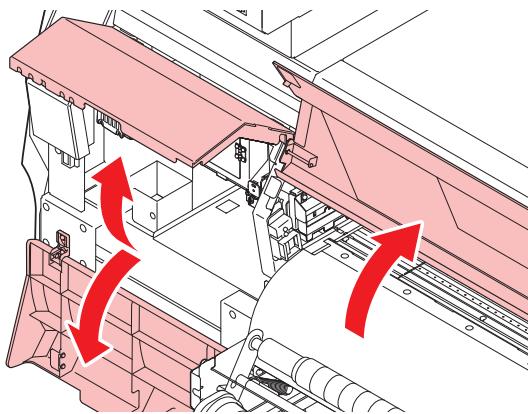
- Do not use organic solvents such as acetone and IPA. Doing so may damage the machine.

Jam Sensor Cleaning

Jam sensor units are located on the UV-LED units on both sides of the carriage. Ink or dust buildup on the sensor unit may cause media jams. Clean it with paper towels.

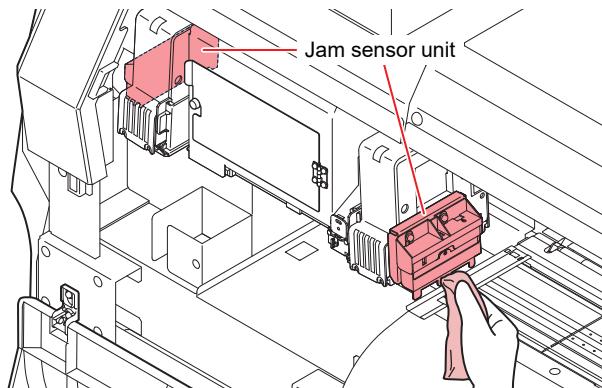
- On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.
 - The Maintenance menu is displayed.
- Select [Station Maint.] > [Carriage Out] > [Head Maint.], then press the [ENTER] key.
 - The carriage moves to the maintenance space.

3 Open the front cover and maintenance covers.



4 Clean the jam sensor units on both sides of the carriage.

- In particular, clean underneath the jam sensor, from both the front cover and maintenance cover sides.
- Wipe off any adhering ink or dust with a paper towel moistened with maintenance liquid. Wipe away any remaining maintenance liquid after cleaning.



5 Once cleaning is complete, close the cover, then press the [ENTER] key.

Platen Cleaning

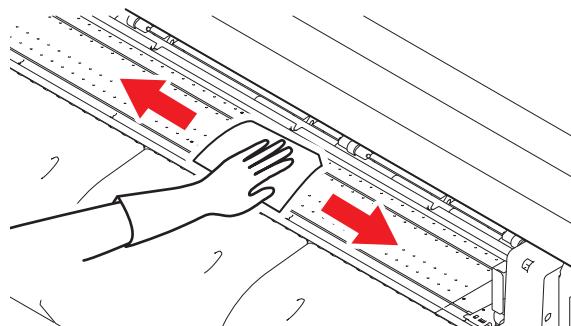


- Turn off the main power supply and unplug the power cable before carrying out maintenance.



- Be careful to prevent liquids from getting inside the machine. Otherwise there is a risk of failure, electric shock, or fire.

Continuing to use the dirty platen will prevent proper feeding of the media. It will also cause dried ink and attached dust to rub against the head nozzle surface and lead to ejection failures (e.g., nozzle clogging or deflection).



- The grooves in which the media holder slides and the media is cut are susceptible to dust accumulation. Remove any debris carefully.

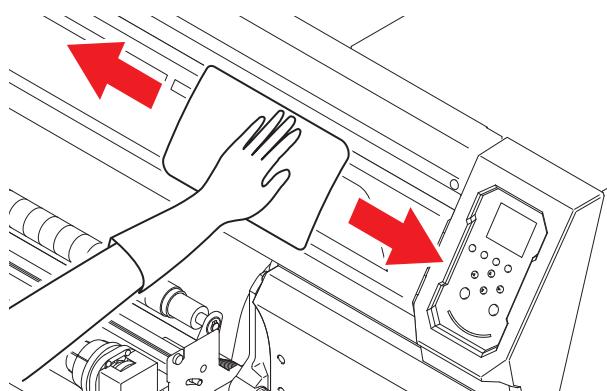


- For heavy soiling, wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out.
- Do not use organic solvents such as acetone and IPA. Doing so may damage the machine.

Cover (Exterior) Cleaning



- Be careful to prevent liquids from getting inside the machine. Otherwise there is a risk of failure, electric shock, or fire.



- For heavy soiling, wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out.

Pinch roller Cleaning

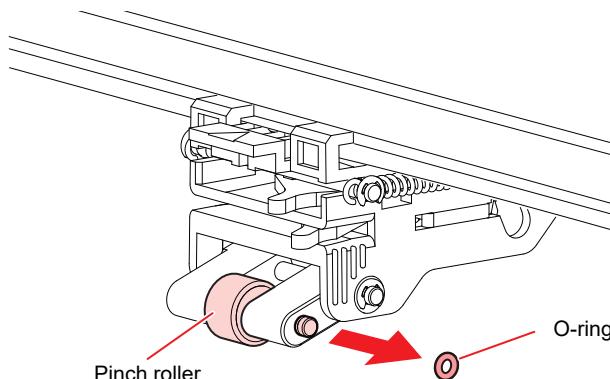
The machine counts the printing distance, and when it reaches the specified value, "Pinch roller Cleaning" will appear on the display.

Clean the pinch rollers also when the glue agent is disturbed or stuck to the pinch rollers.

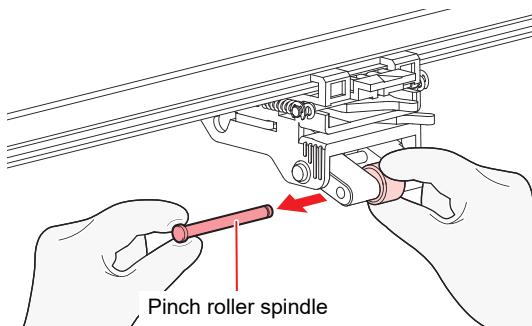


- Turn off the main power supply and unplug the power cable before carrying out maintenance.

1 Open the front cover.

2 Raise the clamp lever.**3** Remove the O-ring retaining the pinch rollers.

- The pinch rollers are small. Be careful to avoid dropping them into the product interior.

4 Remove the pinch roller spindle.

- Do not touch the pinch roller surface with bare hands. There is a risk that the adhesive of the glue sheet may easily stick to the pinch roller.

5 Clean pinch rollers with neutral or mild alkaline detergent.

6 Rinse detergent with water.

- Clean the surface with a sponge or similar tool to scrub off surface dirt.
- Allow to dry for at least 30 minutes after washing.

7 Set the cleaned pinch roller and secure it with an O-ring.**8** Close the front cover.**9** Turning On the Power.**10** On the LOCAL mode screen, select [MENU] > [Maintenance] > [Pinch Roller] > [Replace] and press [ENTER].

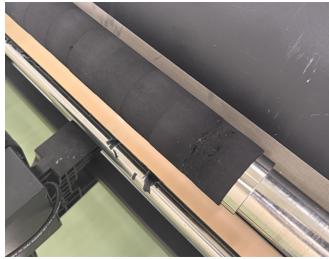
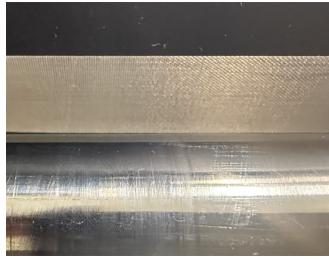
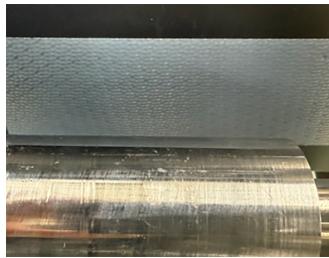
- Once executed, the cleaning message disappears.

Bonding Roller Maintenance

Bonding Roller Configuration

(Important)

- There are two different bonding roller sponge and tape configurations. Check the configuration and perform maintenance in accordance with the corresponding operating method.

Bonding roller	Sponge	Tape
Configuration 1	 Segmented type	 Nitoflon tape
Configuration 2	 Single type	 Fluoropolymer tape

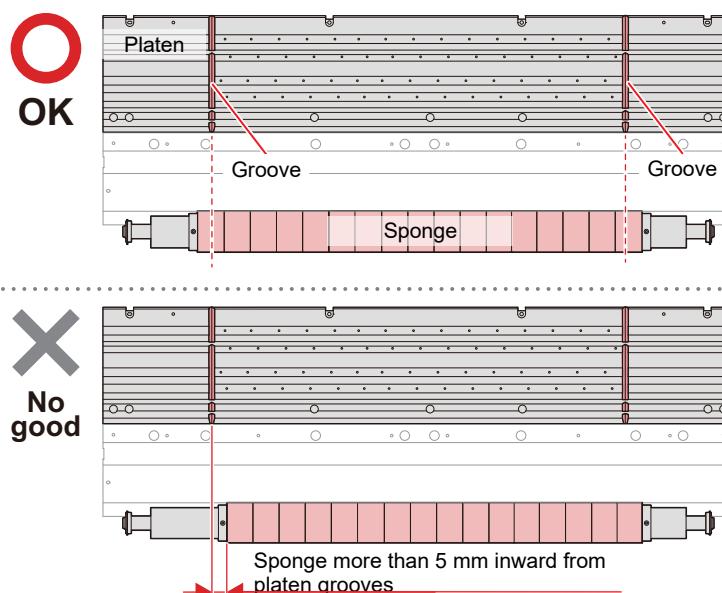
Checking and Adjusting the Bonding Roller Sponge Position

(Important!)

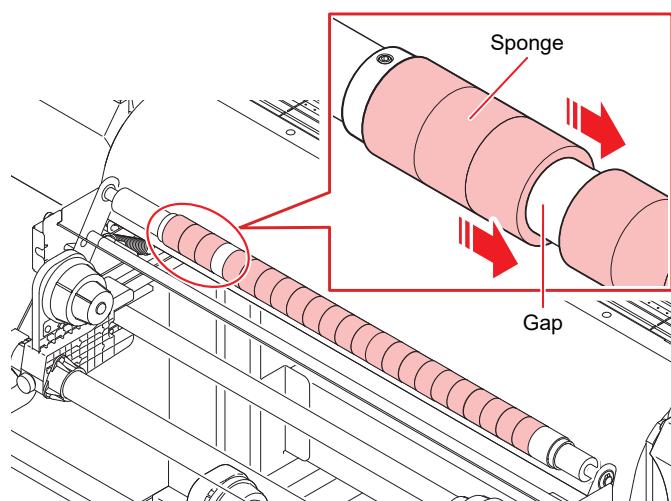
- This applies to printers with segmented sponge.
- This procedure is not required for single sponge type printers.
- Check to confirm that the sponge is correctly positioned.



(1) The sponge on the bonding roller is positioned correctly when both ends cover the platen grooves. It is also acceptable if the sponge does not cover the platen grooves, as long as the gap between the sponge and groove does not exceed 4 mm. If the sponge is more than 5 mm inward from the groove, it may interfere with media feeding.



(2) Also move the sponge if there are any gaps between individual sponge sections. If the sponge sections press against each other too hard, air bubbles are more likely to form during bonding. Do not press the sponge sections together any further once the gaps have been eliminated.



If the sponge on the bonding roller is not in the correct position, move it into position as follows.



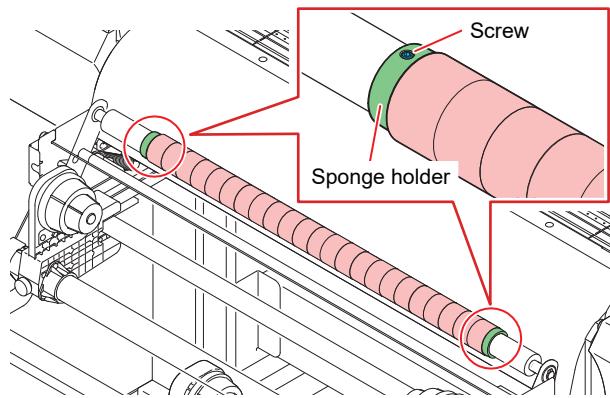
- Tools used
 - (1) Hexagon wrench (width across flats: 1.5 mm)
 - Included with the machine.

1 Loosen the sponge holder retaining screw.

- Loosen the screws with the included hexagon wrench.



- To position the sponge sections evenly, loosen the retaining screws on both ends of the sponge holder before adjustment.

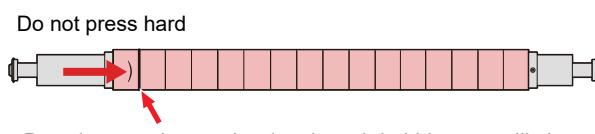


2 Move the sponge.

- Move the sponge sections to align them evenly and eliminate any gaps between them.
- Make sure the left and right sponge sections are correctly positioned relative to the platen grooves.



- If the sponge sections press against each other too hard, air bubbles are more likely to form during bonding. Do not press the sponge sections together any further once the gaps have been eliminated.



Pressing together too hard makes air bubbles more likely to form in this area during bonding.

3 With the sponge holders touching the sponge, tighten the holder retaining screws.

4 Manually rotate the bonding roller slowly to confirm there are no gaps between the sponge sections across the roller.

When this Printer is Left Unused for a Long Time

Clean as follows if the product is not used for one week or longer:

Check beforehand

Is [Near End] or [Ink End] displayed?

- Maintenance liquid and ink is aspirated during the washing operation. Washing is not possible if an error occurs during this process. Replace with new ink.

1 On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.

- The Maintenance menu is displayed.

2 Select [Station Maint.] > [Custody Wash], then press the [ENTER] key.

- The carriage moves over the platen.

3 Open the front cover.

4 Clean the wiper and bracket.

-  "Wiper Cleaning"(P. 97)

5 Press the [ENTER] key once cleaning is complete.

- "Cap Cleaning Completed (Next) [ENT]" appears on the display.

6 Clean the cap rubber.

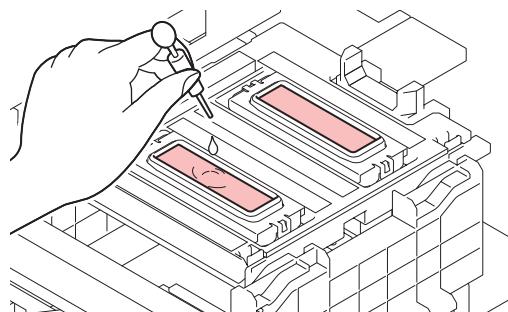
-  "Cap Rubber Cleaning"(P. 100)

7 Once cleaning is complete, close the cover, then press the [ENTER] key.

- "Fill the Liquid. Exit Next [ENT]" appears on the display.

8 Fill the cap with maintenance liquid.

- Use a syringe to draw up some maintenance liquid and fill until it almost overflows from the cap.



9 Press  to enter the leaving time. (Supported from firmware version 3.2 onward)

- The recommended leaving time is 1 minute.

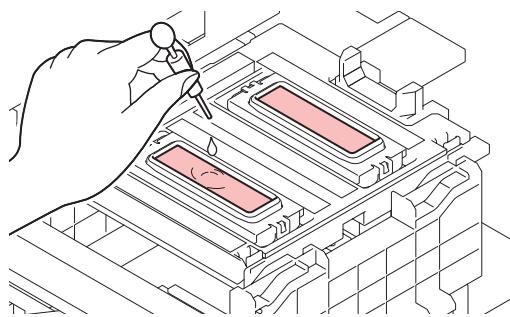
10 Close the front cover, then press the [ENTER] key.

- Print nozzle washing starts. The elapsed time is displayed on the display.
- Cleaning is performed automatically once print nozzle washing has ended.
- "Fill the Liquid. Exit Next [ENT]" appears on the display.

11 Open the front cover.

12 Fill the cap with maintenance liquid.

- Use a syringe to draw up some maintenance liquid and fill until it almost overflows from the cap.

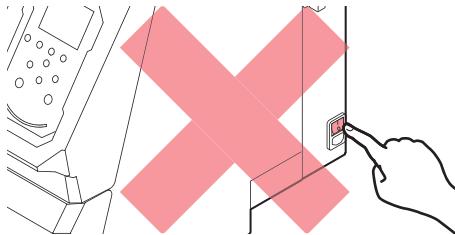


13 Close the front cover, then press the [ENTER] key.

- Pump tube (ink discharge channel below the cap) washing starts.



- Do not turn off the main power supply. Turning off the main power supply will disable the automatic maintenance function (including nozzle clogging prevention function and ink discharge channel cleaning function). This increases the risk of ejection failures (such as nozzle clogging or deflection).



- Do not leave media loaded on the platen. This may leave irregularities or ripples in the media.



When the machine is not in use, raise the clamp lever to separate the pinch rollers from the grit rollers.

- Leaving the pinch rollers lowered may cause them to become deformed and prevent media from being fed correctly.
- Leaving media loaded will subject it to force from the pinch rollers, which may leave pinch roller marks on it.



- Perform the following if the "Check Waste Ink Tank" message appears on the display.
 ["Waste Ink Tank Replacement"\(P. 125\)](#)



- When the machine is not in use, raise the bonding roller to separate the roller from the after cover.
Leaving the roller lowered may cause it to become deformed and prevent normal bonding.

4.3 Replacement of Consumable Item

To order replacement consumable items, contact your local dealer or our service office. For more information on consumable items, refer to our website (<https://mimaki.com/supply/inkjet.html>).



- Do not store consumable items in locations where children may enter.

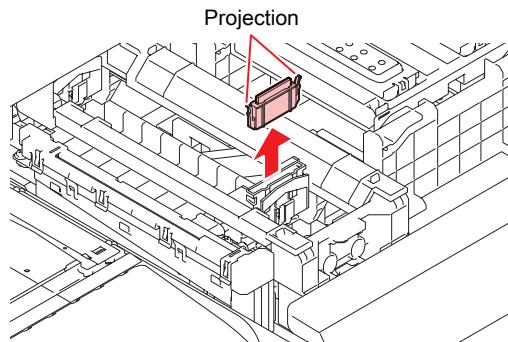


- When disposing of consumable items, contact an industrial waste disposal operator or dispose of the product in accordance with the local laws and regulations.

Wiper Replacement

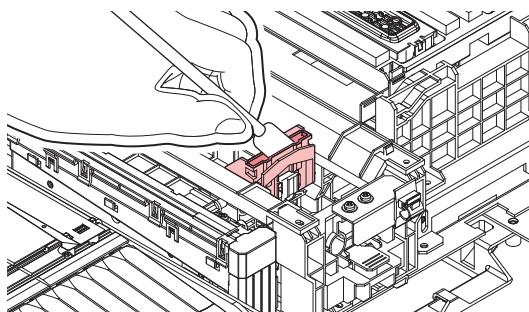
The machine maintains a count of the number of wiping cycles. The "Replace Wiper" message appears when a preset count is reached. Replace dirty or warped wipers with new ones.

- 1** "Replace Wiper" appears on the display.
- 2** On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.
 - The Maintenance menu is displayed.
- 3** Select [Station Maint.] > [Replace Wiper], then press the [ENTER] key.
 - The carriage moves over the platen.
- 4** Open the front cover.
- 5** Remove the wiper.
 - Hold the lugs on both sides of the wiper bracket, then pull out the wiper.

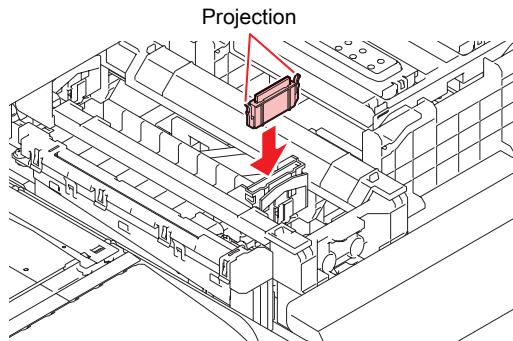


- 6** Clean the wiper slider.

- Wipe off any ink and dust adhering using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.



7 Mount a new wiper.



8 Once replacement is complete, close the cover, then press the [ENTER] key.

- The wiper usage count is reset.

Cap Absorber Replacement

The machine maintains a usage count. The "Replace Cap Absorber" message appears on the display when a preset count is reached.

If the cap absorber is very dirty or if ink drips on to the media, replace with a new cap absorber.

1 The "Replace Cap Absorber" message appears on the display.

2 On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.

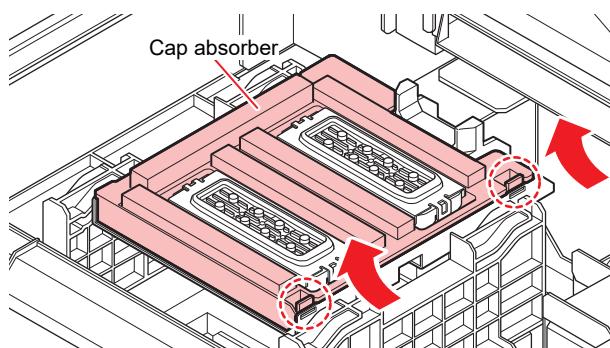
- The Maintenance menu is displayed.
- The carriage moves over the platen.
- The cap absorber usage count is reset.

3 Turn off the main power supply.

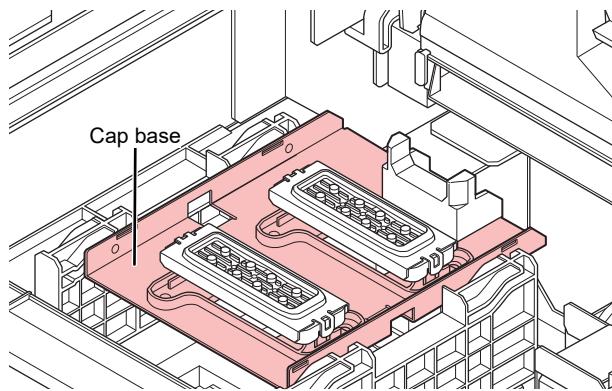
4 Open the front cover.

5 Remove the cap absorber.

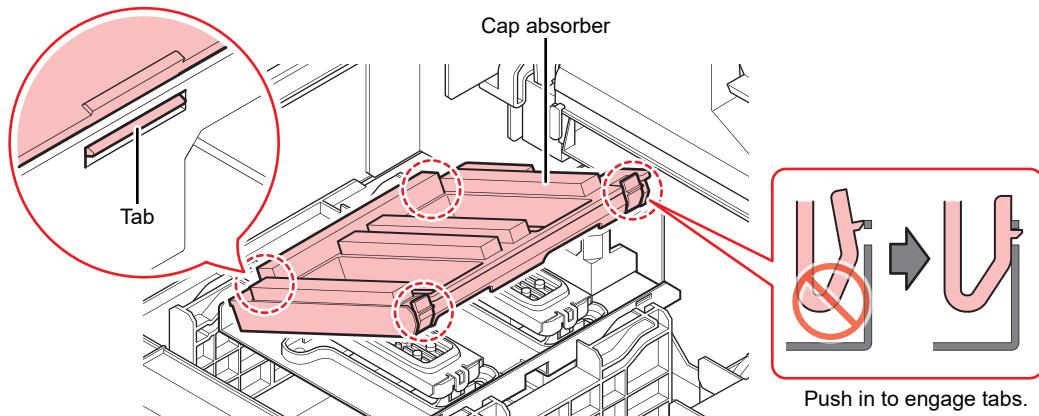
- Push up the two tabs at the front to remove the cap absorber.



- Avoid ink dripping when removing the cap absorbers.

6 Clean the cap base.**7** Mount a new cap absorber.

- Push the tabs on the cap absorber into the slits at the rear of the C slider, and clip in the tabs at the front.

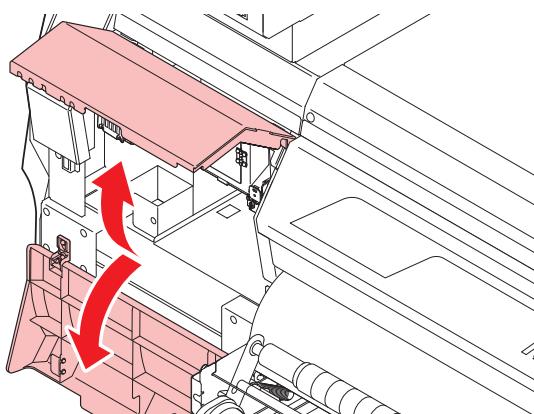
**8** Once replacement is complete, manually push the wiper back to the rear.**9** Close the front cover, then turn on the power.

- Confirm that the carriage returns to the station.

Mist Filter Replacement

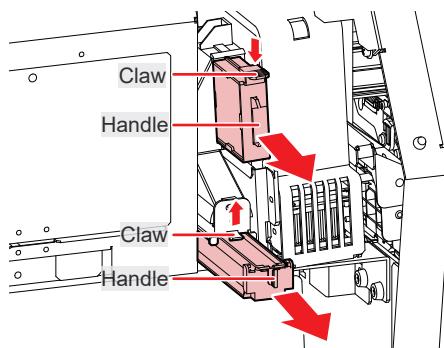
Check the mist filter. Replace if very dirty.

- 1** On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.
 - The Maintenance menu is displayed.
- 2** Select [Station Maint.] > [Carriage Out] > [Head Maint.], then press the [ENTER] key.
 - The carriage moves to the maintenance space.
- 3** Open the maintenance covers.



- 4** Remove the mist filter box.

- Push the tab in the direction indicated by the arrow and slide out in the direction of the arrow to remove.



- 5** Replace the mist filter with a new one.

- 6** Install the mist filter box.

- Insert until it clicks into place. Confirm that the tab is engaged.

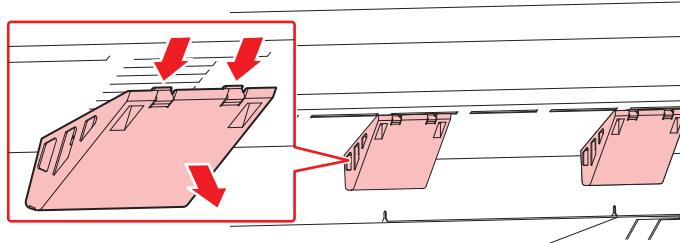
- 7** Once replacement is complete, close the cover, then press the [ENTER] key.

Exhaust Fan Filter Replacement

Check the exhaust fan filter condition. Replace if very dirty.

1 Remove the exhaust fan box.

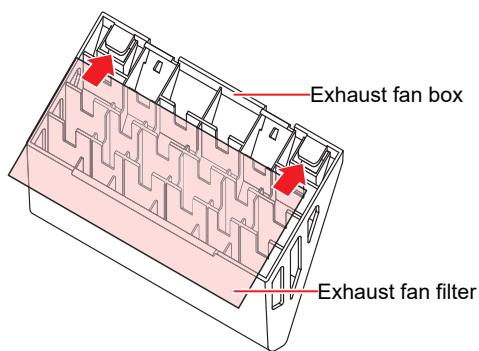
- Push the tabs at the front to remove the exhaust fan box.



- Replace the very dirty exhaust fan box with new one.

2 Mount a new exhaust fan filter in the exhaust fan box.

- Press the exhaust fan filter into the space under the tabs of the exhaust fan box.



3 Mount the exhaust fan box.

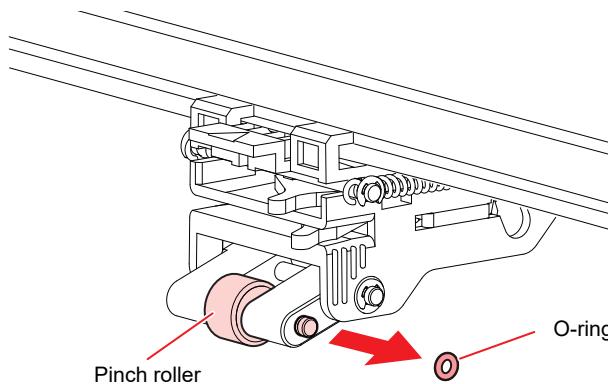
- Insert the tabs of the exhaust fan box into the slits of the machine, and clip in the tabs at the front.

Pinch Roller Replacement

The machine counts the printing distance, and when it reaches the specified value, "Pinch roller Replace" will appear on the display. If the adhesive layer of the glue sheet is disturbed or stuck to the pinch roller even after the pinch roller is cleaned, replace the pinch roller with a new one.

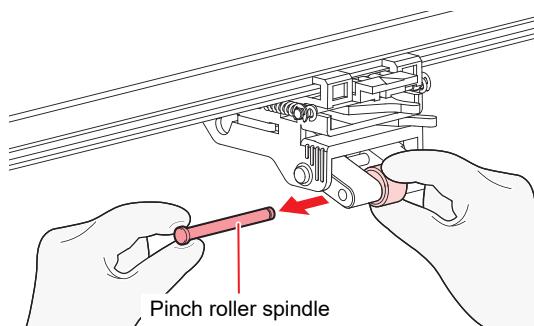
- Turn off the main power and unplug the power cable before replacement.

- 1 Open the front cover.
- 2 Raise the clamp lever.
- 3 Remove the O-ring retaining the pinch rollers.



- The pinch rollers are small. Be careful to avoid dropping them into the product interior.

- 4 Remove the pinch roller spindle.



- Do not touch the pinch roller surface with bare hands. There is a risk that the adhesive of the glue sheet may easily stick to the pinch roller.

- 5 Set a new pinch roller (SP-01015), pass it through the PR shaft, and secure it with an O-ring.
- 6 Close the front cover.
- 7 Turning On the Power.
- 8 On the LOCAL mode screen, select [MENU] > [Maintenance] > [Pinch Roller] > [Replace] and press [ENTER].
 - The exchange message disappears.



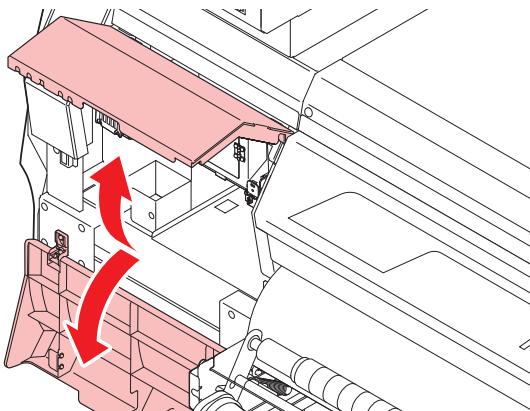
- Media adhesive sticks to the pinch rollers. Replace them regularly. Replace them regularly.
- Guideline for replacement: every 3 months

Media Holder Replacement

If the media holder becomes deformed and touches the carriage or print head, replace with a new media holder.

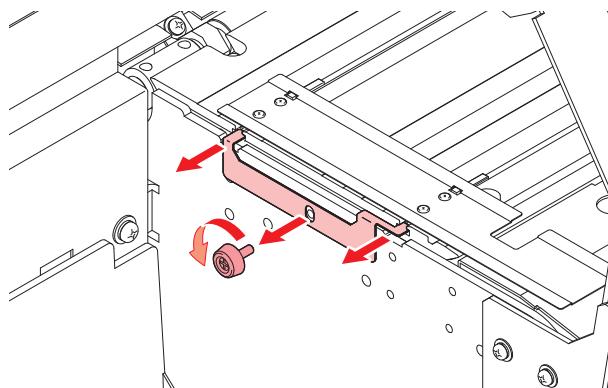
- Turn off the main power and unplug the power cable before replacement.

1 Open the maintenance covers.

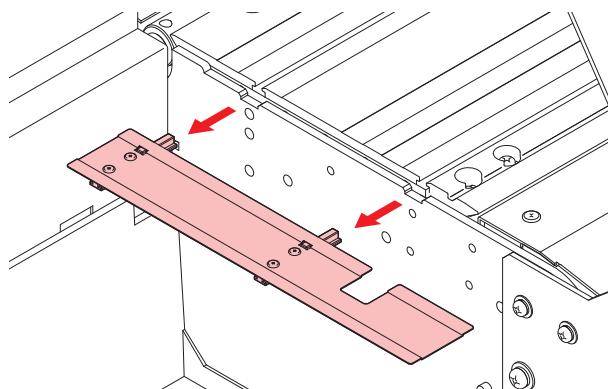


2 Remove the side screw, and detach the media holder stopper.

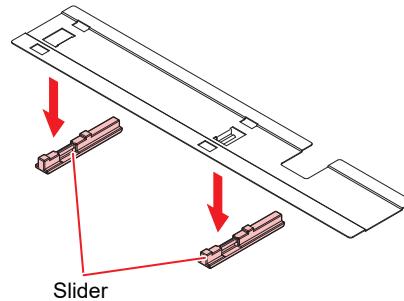
- As shown in the following figure, some types of media holders are not screwed in, but all types are removed from the platen the same way.



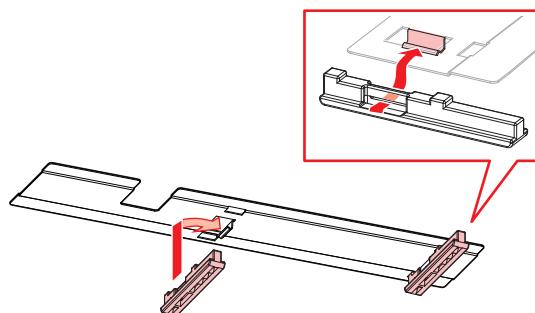
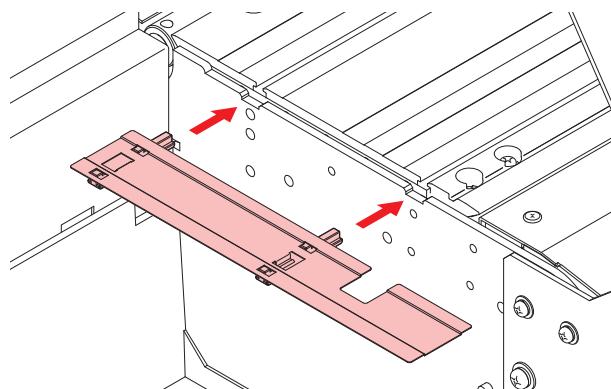
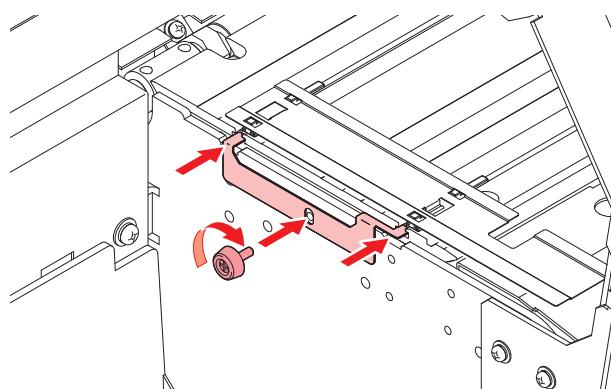
3 Remove the media holder.



- If sliders are screwed to the media holder, discard the removed media holder and replace it with the supplied one.

4 Remove the sliders from the media holder. (If not the type that is screwed in.)**5** Attach the sliders to the new media holder.

- Engage the holes in the sliders on to the lugs on the media holder.

**6** Mount the new media holder on to the platen.**7** Secure the media holder stopper with the screw.**8** Close the maintenance covers.

Waste Ink Tank Replacement

Ink used during head cleaning and other processes is collected in the waste ink tank at the lower right of the machine.

This product keeps track of the waste ink level. A "Check Waste Ink Tank" message appears when the preset level is reached. Use this a guide for replacing the waste ink tank.



- For a 2-liter tank, the preset level is 80 % (1.6 L).
- Continuing to use the product without disposing of the waste ink may result in waste ink overflowing from the waste ink tank. Visually check ink levels in the waste ink tank about once a week.



- Pay close attention to ventilation and be sure to wear safety glasses, gloves, and a mask when handling ink, maintenance liquid, waste ink, or other solutions used with the machine. Leaking ink may adhere to the skin or get into the eyes or mouth.

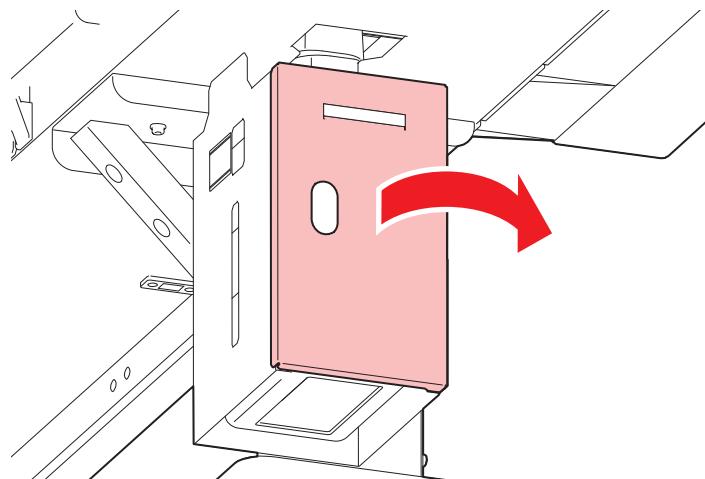
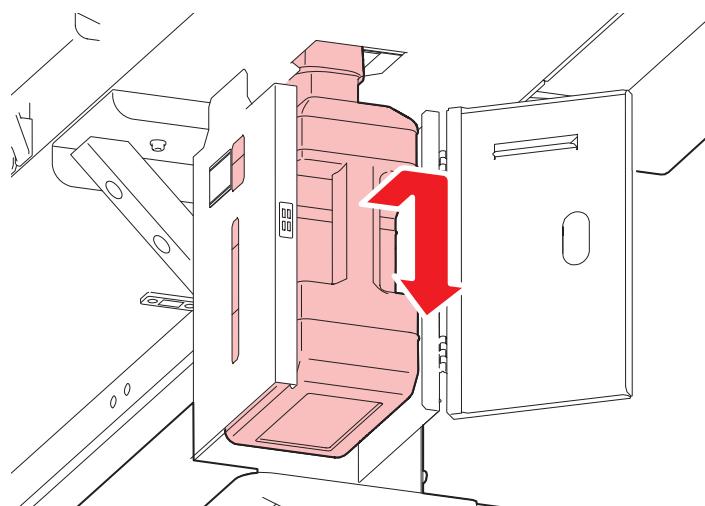
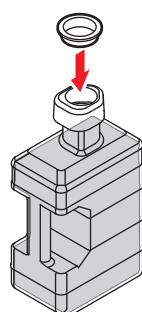


When "Check Waste Ink Tank" message appears

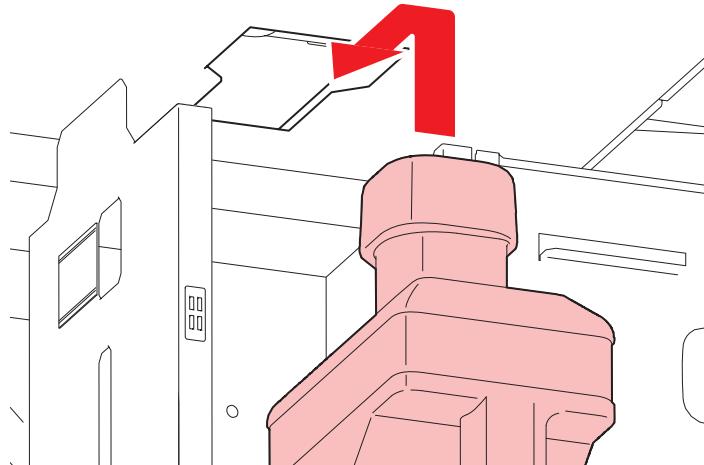
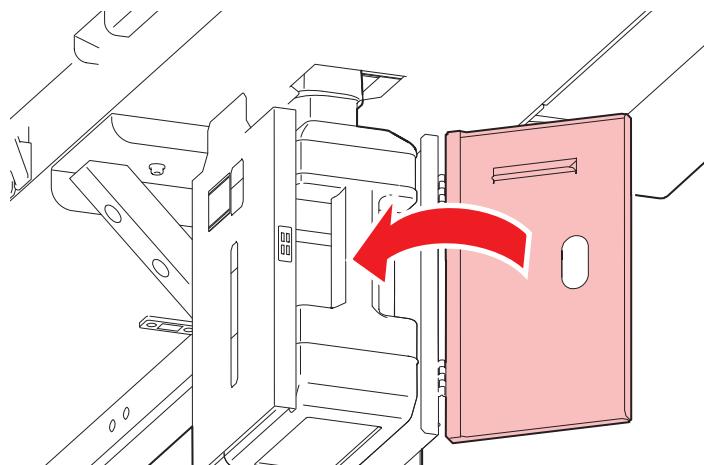
- 1 The "Check Waste Ink Tank" message appears on the display.
- 2 Check the waste ink levels in the waste ink tank.
 - If you note any discrepancies from actual levels, proceed to the next step.
 - If there is no discrepancy, replace (dispose of) the waste ink tank referring to "Replacing the Waste Ink Tank"(P. 125).
- 3 On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - The Maintenance menu is displayed.
- 4 Select [Replace Wasteinktank], then press the [ENTER] key.
 - "Replace Wasteinktank Level: 80 % (1.6 L)" appears on the display.
- 5 Press to adjust the level.
- 6 Press the [ENTER] key once adjustment is complete.

Replacing the Waste Ink Tank

- 1 On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - The Maintenance menu is displayed.
- 2 Select [Replace Wasteinktank], then press the [ENTER] key.
 - "Replace Wasteinktank Level: 80 % (1.6 L)" appears on the display.

3 Open the waste ink tank cover.**4** Hold the handle on the waste ink tank and slide out.**5** Attach the cap to the removed waste ink tank, and use tape to prevent leakage of waste ink.

- When disposing of ink, maintenance liquid or other liquid used with the product, or containers or non-woven fabric contaminated with ink or other liquid, contact an industrial waste disposal operator or dispose of the product in accordance with the local laws and regulations.

6 Mount a new waste ink tank.**7** Close the waste ink tank cover.**8** Press the [ENTER] key.

- The waste ink level will be reset.

Ink Bottle Cap Replacement

As a guideline, replace annually. For replacement instructions, see Replacing Ink.



- Pay close attention to ventilation and be sure to wear safety glasses, gloves, and a mask when handling ink, maintenance liquid, waste ink, or other solutions used with the machine. Leaking ink may adhere to the skin or get into the eyes or mouth.



Chapter 5 Troubleshooting



This chapter

This chapter describes corrective actions for troubleshooting and messages on the display.

Troubleshooting.....	130	A Film (Self-Adhesive Film) Adhesive Related Problems	139
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The media jams or the media is dirty.....	130	If a jam occurs on the A film (self-adhesive film) adhesive	143
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The ink has leaked out.....	135	Ink Error	147
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5.1 Troubleshooting

For information on troubleshooting, refer to this chapter. Refer to our website (<https://mimaki.com/support/>) for frequently asked questions (FAQs) about this product and customer support videos.

If the recommended corrective action does not resolve the problem, contact your local dealer or our service office.

The power does not turn on.

Points to check	Corrective action
Is the machine connected to the power outlet by the power cable?	Connect the power plug securely to the power outlet.  "Connecting the Power Cable"(P. 34)
Are you using the power cable provided?	Use the power cable provided.
Is the main power supply turned on?	Turn on the main power supply.  "Turning On the Power"(P. 35)
Is the [END/POWER] key on the operating panel turned on?	Turn the power on.  "Turning On the Power"(P. 35)

Printing is not possible.

Points to check	Corrective action
Is a USB interface cable connected?	Connect the cable securely to the USB 2.0 port.  "Using a USB Cable"(P. 37)
Is a LAN cable connected?	Connect the cable securely to the LAN port.  "Using a LAN Cable"(P. 37)
Are you using a LAN cable approved by Mimaki?	Check the LAN cable type.  "Using a LAN Cable"(P. 37)
Is the status lamp on the operating panel illuminated or flashing red?	An error has occurred. Check the message on the display.  "Operating Panel"(P. 30)

The media jams or the media is dirty.

Points to check	Corrective action
Are you using the recommended media?	Make sure you are using the recommended media. https://mimaki.com/supply/inkjet.html
Are you using curled media?	Do not use curled media or media with folded ends.
Is the media skewed?	Use the take-up unit to adjust the media or reload the media.  "Loading the Media"(P. 53)

Crimping is insufficient.

Points to check	Corrective action
Is the heater turned on?	Set the heater temperature to 60°C or higher before use. If the adhesion between Sheet A and Sheet B is insufficient and the prints cannot be peeled off properly, set the temperature higher (up to 70°C).

Image defects occur.

Symptom	Corrective action
White streaks, blurriness, and dark streaks occur. (Carriage scan direction)	<ol style="list-style-type: none"> 1. Remove any paper scraps or other debris adhering to areas over which the head passes (e.g., media holders).  "Media Holder Cleaning"(P. 106)  "Platen Cleaning"(P. 107) 2. Perform the procedure described in  "Head Cleaning"(P. 71). 3. Perform the procedure described in  "Feed Correction"(P. 72). 4. Perform the procedure described in  "Wiper Cleaning"(P. 97). 5. Perform the procedure described in  "Cap Rubber Cleaning"(P. 100). 6. Perform the procedure described in  "Carriage Underside Cleaning"(P. 101).
Text is double- or triple-printed in the media feed direction.	<ol style="list-style-type: none"> 1. Perform the procedure described in  "Feed Correction"(P. 72).
Offsetting occurs during bidirectional printing.	<ol style="list-style-type: none"> 1. Perform the procedure described in  "Correcting the Drop Position"(P. 74).
Ink droplets drip during printing.	<ol style="list-style-type: none"> 1. Perform the procedure described in  "Wiper Cleaning"(P. 97). 2. Perform the procedure described in  "Cap Rubber Cleaning"(P. 100). 3. Perform the procedure described in  "Carriage Underside Cleaning"(P. 101). 4. Perform the procedure described in  "Head Cleaning"(P. 71). 5. Set auto maintenance.  "Maintenance Menu"(P. 85)
Clear clogged nozzles.	<ol style="list-style-type: none"> 1. Perform the procedure described in  "Head Cleaning"(P. 71). 2. Perform the procedure described in  "Print Head Nozzle Washing"(P. 131). 3. Perform [MENU] > [Maintenance] > [Fill Up Ink]. 4. Perform the procedure described in  "Wiper Replacement"(P. 116). 5. Perform the procedure described in  "Registering Nozzle Recovery"(P. 86).

Print Head Nozzle Washing

If ejection failures (e.g., nozzle clogging or deflection) remain unresolved even after head cleaning ( "Head Cleaning"(P. 71)), apply nozzle wash to the print head.

- 1 **On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.**
 - The Maintenance menu is displayed.
- 2 **Select [Station Maint.] > [Nozzle Wash], then press the [ENTER] key.**
 - The carriage moves over the platen.
- 3 **Open the front cover.**
- 4 **Clean the wiper and bracket.**
 -  "Wiper Cleaning"(P. 97)
- 5 **Press the [ENTER] key once cleaning is complete.**
 - "Cap Cleaning Completed (Next) [ENT]" appears on the display.

6 Clean the cap rubber.

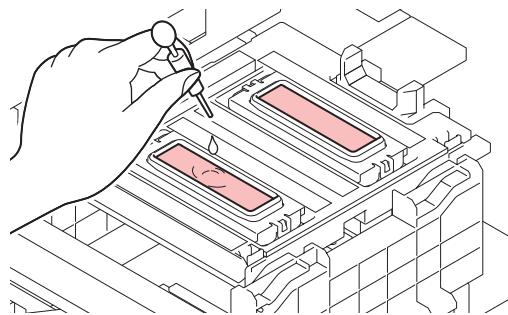
-  "Cap Rubber Cleaning"(P. 100)

7 Once replacement is complete, close the cover, then press the [ENTER] key.

- "Fill the Liquid. Exit Next [ENT]" appears on the display.

8 Fill the cap with maintenance liquid.

- Use a syringe to draw up some maintenance liquid and fill until it almost overflows from the cap.

**9** Press  to enter the leaving time.

- When using ML007 maintenance liquid: Recommended time is 1 minute.
- When using ML016 maintenance liquid: Soak for 5 to 10 minutes depending on the state of the nozzle, and soak for longer if not cleaned.

10 Close the front cover, then press the [ENTER] key.

- Print nozzle washing starts. The elapsed time is displayed on the display.
- Cleaning is performed automatically once print nozzle washing has ended.



- If ejection failures (e.g., nozzle clogging or deflection) remain unresolved even after washing the nozzles several times, contact your local dealer or our service office.

Ink colors are mixed.

- Pay close attention to ventilation and be sure to wear safety glasses, gloves, and a mask when handling ink, maintenance liquid, waste ink, or other solutions used with the machine. Leaking ink may adhere to the skin or get into the eyes or mouth.

**1** On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.

- The Maintenance menu is displayed.

2 Select [Air PG], then press the [ENTER] key.**3** Select check boxes for heads for air purging.

- The checked head becomes the air purge target.
- You can select both Head 1 and Head 2 at once.

Ink set	Head 1				Head 2			
4 colors + CL + W	C	M	Y	K	CL	CL	W	W

4 Press the [ENTER] key.

- The target head moves over the wiper.

5 Open the front cover.

6 Open the lid on the front of the carriage.

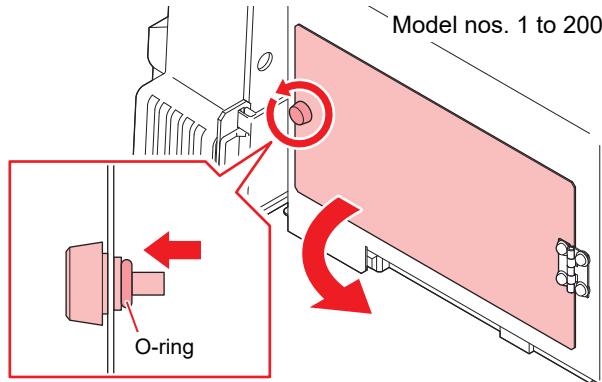


- The front carriage lid varies by model.

- Model nos. 1 to 200

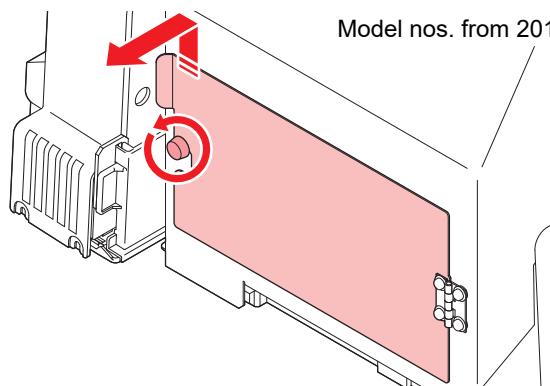
(1) Unscrew the decorative screw and remove it from the carriage cover.

- However, keep the screw attached to the lid.
- If the O-ring seems to come off the screw when the lid is opened, press it in the direction shown by the arrow.
- Be careful not to lose the screw, washer, or O-ring.



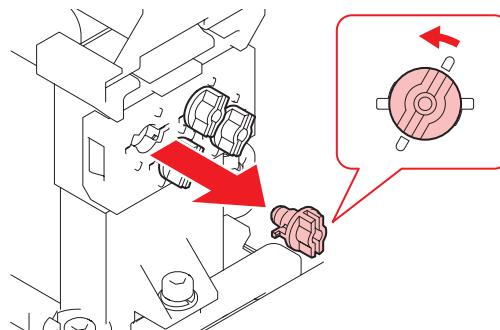
- Model nos. from 201

(1) Turn the decorative screw about once and gently raise the lid as shown by the arrow, then pull the lid toward you to open it.



7 Remove the cap on the target port.

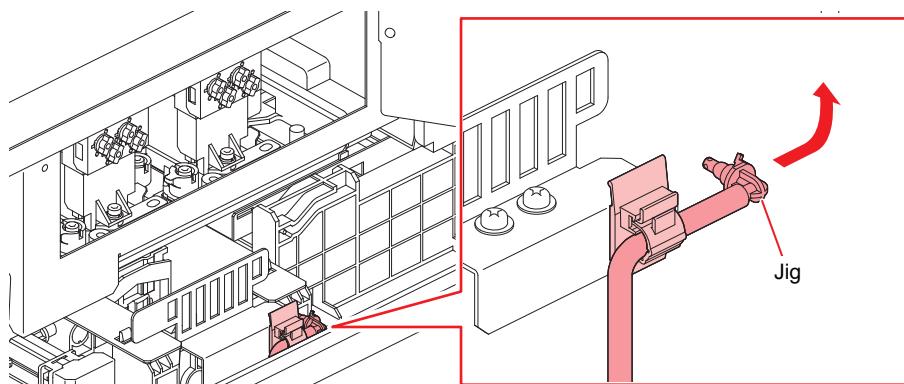
- If you select Head 1 and Head 2 simultaneously, remove the cap on the port of the head displayed at the upper right of the display.
- Turn the cap 30° counterclockwise and remove.
- No ink spills out even if the cap is removed.
- Ink adheres to the removed cap. Place on a paper towel to avoid contaminating the surrounding area.
- Purge air from the print heads one by one. Do not remove the cap on Head 2 when performing air purge for Head 1.



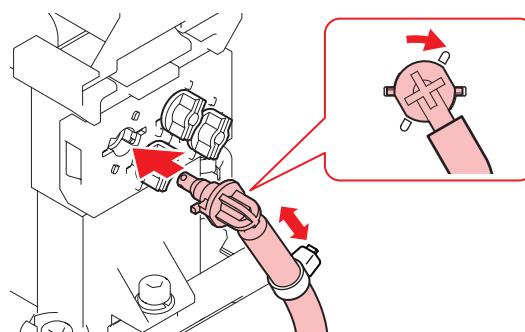
Ink set	Head 1	Head 2
4 colors + CL + W: CMYK CLCLWW	 C Y M K	 CL W CL W

8 Connect the jig to the port.

- Lift the lid on the front of the carriage and pull out the jig.



- Connect the jig by pushing the tip into the port and rotating 30° clockwise.



9 Press the [ENTER] key to start the air purge.

10 Check to confirm ink flows in the tube of the jig.

- Continue air purge until no mixed ink colors or air remains. Remove the jig and press the [ENTER] key to end the air purge.
- Air purge will stop automatically after 30 seconds. To continue the air purge, select [Retry].



- Do not repeat any of these operations for the same port. Doing so may lead to nozzle clogging. End the air purge when no mixed ink colors or air remains.



- During air purge, press [FUNC2] to force ink discharge for three seconds.

11 Repeat the above procedure for the other target ports.**12** Press the [ENTER] key once the air purge is complete.**13** Remove the jig from the port.

- Turn the jig 30° counterclockwise and remove.

14 Attach the cap to the port.

- Vertically lift the tip of the jig and drain the ink from the tube. Any ink left in the tube may harden.

15 Close the lid on the front of the carriage and tighten the decorative screw.

- Make sure the screw holds the lid securely in place.

16 Close the front cover, then press the [ENTER] key.

- Cleaning starts automatically.
- If you select Head 1 and Head 2 simultaneously, follow the instructions on the display to perform the air purge.

The ink has leaked out

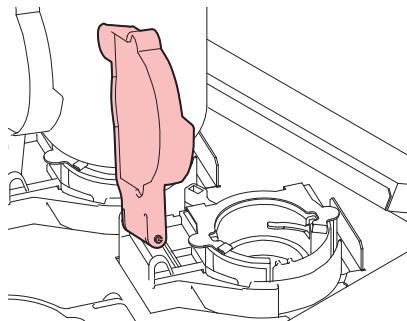
- If an ink leak occurs, turn off the main power immediately and unplug the power cable. Then, contact your local dealer or our service office.

The light-blocking cover comes off.

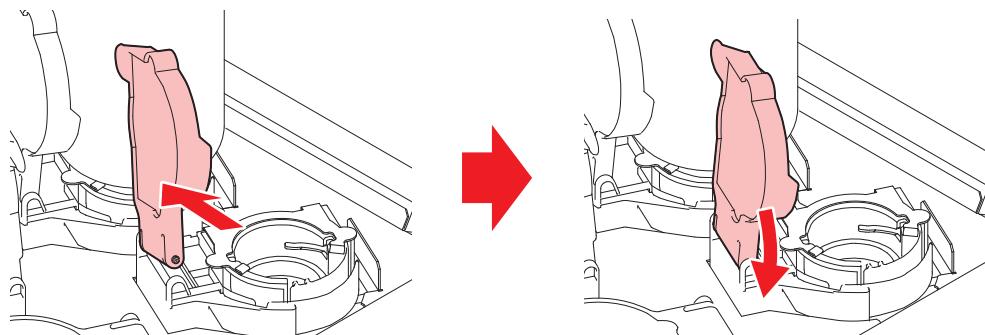
If the light-blocking cover comes loose, the ink inside the tank may be exposed to light and begin to harden.

If the light-blocking cover comes loose, reattach as follows:

- 1 Insert the lug on one side of the light-blocking cover into the corresponding hole in the tank.



- 2 Insert the lug on the other side while pushing in toward the first hole in Step 1.



Pinch roller rubber shifted

Make sure the pinch roller rubber is not displaced when loading media. If the elastic is misaligned, move the elastic to the normal position.

OK



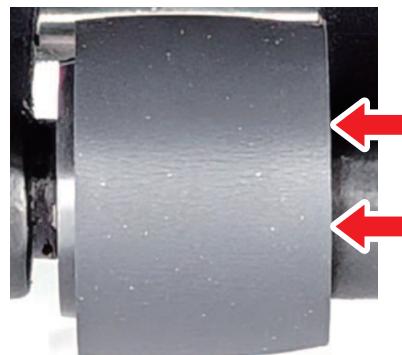
No good



- Do not touch the pinch roller surface with bare hands. There is a risk that the adhesive of the glue sheet may easily stick to the pinch roller.

● Procedure

- 1 Open the front cover.
- 2 Raise the clamp lever.
- 3 Push in the part of the pinch roller where the rubber is displaced with your finger.



- Rotate the pinch roller all the way around to make sure that the rubber has not shifted.

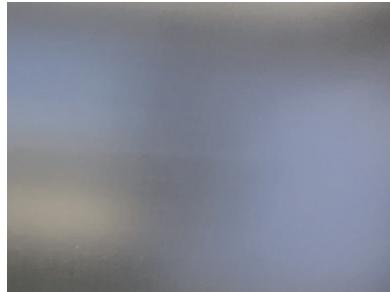
- 4 After checking and adjusting the position, close the front cover.

Fine Air Pockets Form in Prints

With certain media, fine air bubbles may form in prints if the heater temperature is set too high. If fine air bubbles occur, lower the heater temperature setting.



OK



No good



● Procedure

1 Select [SEL] > [FUNC1], then press the [ENTER] key.

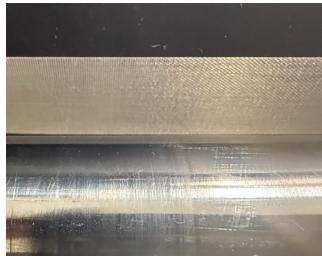
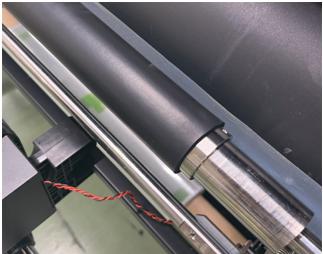
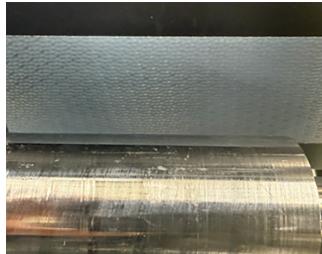
2 Lower the heater temperature.

(Important!) • If the heater temperature is set below 60 °C, bonding may be insufficient and prints may not peel off properly.

5.2 A Film (Self-Adhesive Film) Adhesive Related Problems

Important!

- There are two different bonding roller sponge and tape configurations. Check the configuration and perform maintenance in accordance with the corresponding operating method.

Bonding roller	Sponge	Tape
Configuration 1	 Segmented type	 Nitoflon tape
Configuration 2	 Single type	 Fluoropolymer tape

Adhesive from the A film (self-adhesive film) has adhered to the bonding roller sponge

If printing is continued with adhesive from the A film adhering to the bonding roller sponge, the media may become stuck, causing jams.

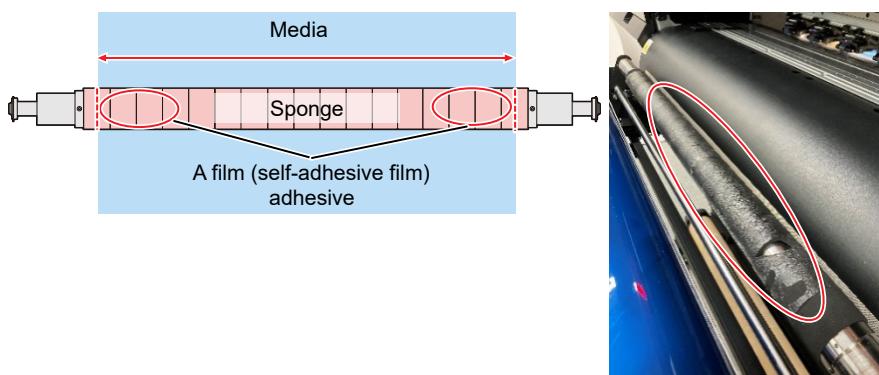
Take the following action according to the configuration used:

Configuration 1 (segmented sponge type)

Take the following action depending on where the adhesive is adhering.

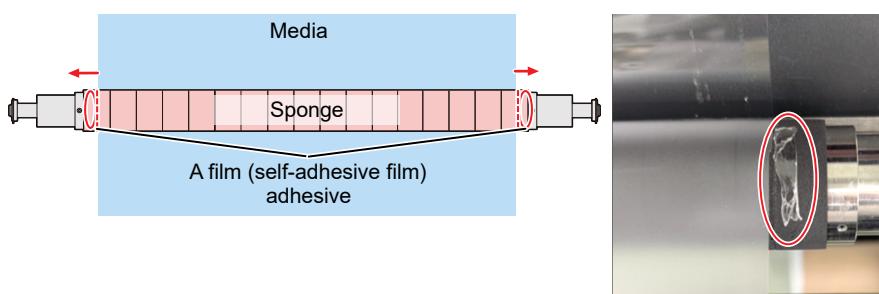
● If adhesive is adhering inside the media setting position

The sponge must be replaced. Contact your local distributor, our sales office, or service center.



● If adhesive is adhering outside the media setting position

Remove the adhesive adhering to the sponge as follows:



1 Remove the media, then raise the bonding roller.

2 Use the adhesive surface of a piece of tape to lift and remove the adhesive.



- Use easily removable tape such as masking tape. Using tape with strong adhesive may damage the sponge.



- Using fingernails or similar objects to remove the adhesive may damage the sponge.

Configuration 2 (single sponge type)

Take the following action when adhesive is adhering to the sponge.



- The adhesive can be removed in the same way regardless of where it is adhering.

● Procedure

- 1 Remove the media, then raise the bonding roller.
- 2 Remove the adhesive by gently rubbing the roller surface with the pad of your finger to gather it, or by lifting it off using the adhesive surface of a piece of tape.



- Use easily removable tape such as masking tape. Using tape with strong adhesive may damage the sponge.
- The adhesive can be efficiently removed by first gathering it together in one place and then removing it with the adhesive surface of a piece of tape.



- Using fingernails or similar objects to remove the adhesive may damage the sponge.

Adhesive from the A film (self-adhesive film) has adhered to the cover and carriage

● If adhesive is adhering to the cover



- Be careful to prevent liquids from getting inside the machine. Otherwise there is a risk of failure, electric shock, or fire.

Remove the adhesive using your finger or a piece of tape. If this does not remove all of the adhesive, wipe off using a soft cloth soaked in alcohol.

● If adhesive is adhering to the bottom of the carriage



- Be careful to avoid leaving fragments from the cleaning stick behind when cleaning. These fragments will increase the risk of ejection failures (e.g., nozzle clogging or deflection).

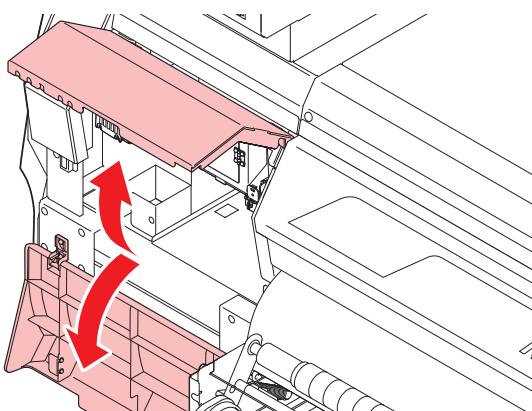
1 On the LOCAL mode screen, select [MENU] > [Maintenance] > [Station Maint.] > [Carriage Out], then press the [ENTER] key.

- The Maintenance menu is displayed.

2 Select [Station Maint.] > [Carriage Out] > [Head Maint.], then press the [ENTER] key.

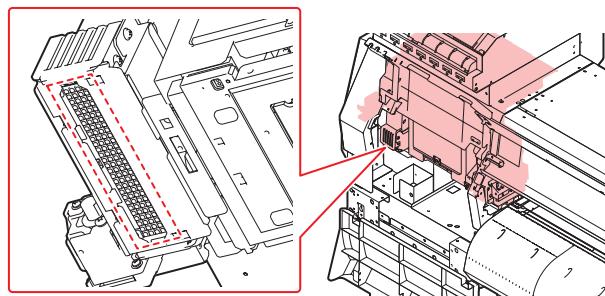
- The carriage moves to the maintenance space.

3 Open the maintenance covers.



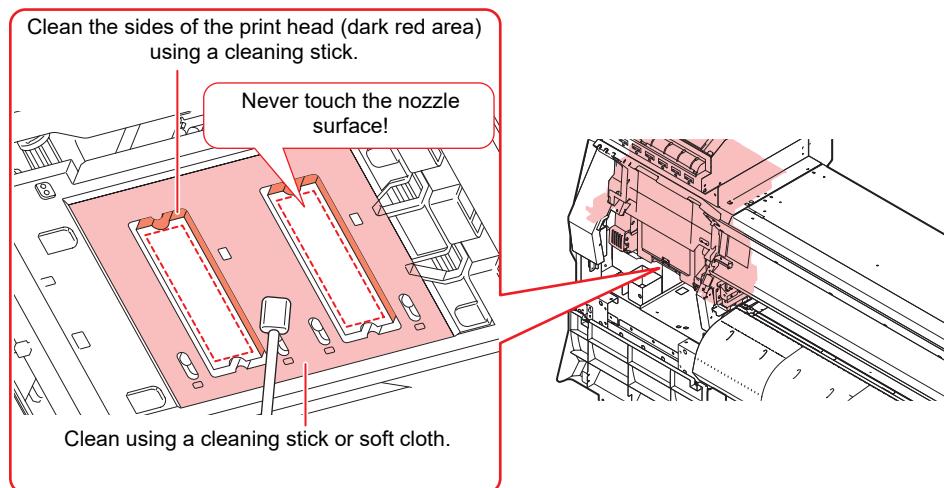
4 Clean the UV-LED lamp.

- Wipe off the adhesive using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.



5 Clean around the print head.

- Wipe off the adhesive using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.



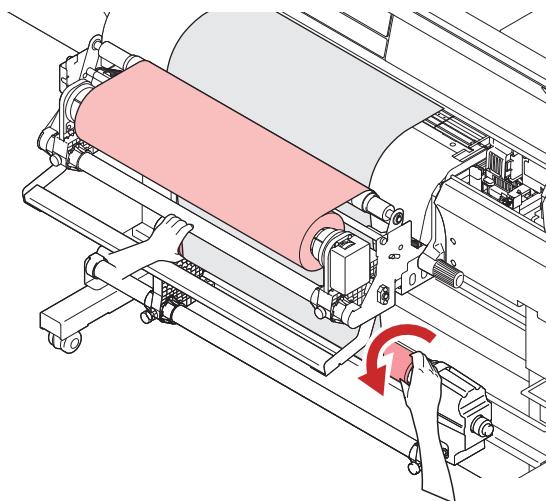
- Never touch the print head nozzle surface.

6 Once cleaning is complete, close the cover, then press the [ENTER] key.

If a jam occurs on the A film (self-adhesive film) adhesive

If a jam occurs on the A film (self-adhesive film) adhesive during printing, there is a risk of adhesive adhering to the bottom of the carriage. Remove the media as follows:

- 1 Open the front cover.
- 2 Raise the clamp lever.
- 3 Manually rotate the paper core to take up approximately 200 mm of media.



- Check to confirm that the media is not lifting up on the platen.
- Check for anything that may obstruct carriage movement.

4 Close the front cover, then press the [ENTER] key.

5 Check to confirm that you have returned to the local screen, then remove the media that was in contact.



- If adhesive has adhered to the pinch rollers, remove it with your finger.
- If adhesive has adhered to the carriage or jam sensor, clean it off.

"Adhesive from the A film (self-adhesive film) has adhered to the cover and carriage"(P. 142)

"Jam Sensor Cleaning"(P. 106)

5.3 Problems Causing Messages to Appear

If a problem arises, the buzzer sounds and a message appears on the display.

You can also check the local guidance.  "Displaying Machine Information (Local Guidance)"(P. 33)

Take the appropriate action in accordance with the content of the message. If a message reappears even after taking the prescribed action, contact your local dealer or our service office.

Warning Messages

Message	Cause	Corrective action
Check Waste Ink tank	<ul style="list-style-type: none"> The waste ink tank count exceeded the preset value (80%). 	<ol style="list-style-type: none"> Check the waste ink levels in the waste ink tank.  "When 'Check Waste Ink Tank' message appears"(P. 125) Replace the waste ink tank, then reset the waste ink level.  "Replacing the Waste Ink Tank"(P. 125)
Replace Wasteinktank	<ul style="list-style-type: none"> The waste ink tank count exceeded the preset value (90%). 	
Replace Wiper	<ul style="list-style-type: none"> The wiping count exceeded the preset value. 	<ul style="list-style-type: none"> Replace the wiper, then reset the count.  "Wiper Replacement"(P. 116)
No Media	<ul style="list-style-type: none"> No media is loaded, or the sensors are faulty. 	<ul style="list-style-type: none"> Load the media.  "Loading the Media"(P. 53) If the message remains even after media is loaded, contact your local distributor, our sales office, or service center.
Data Remain	<ul style="list-style-type: none"> Print (RIP) data was received. 	<ul style="list-style-type: none"> Switch to REMOTE mode and start printing or clear the data and abort printing.
MACHINE TEMP./H **°C	<ul style="list-style-type: none"> Ambient temperatures are too high. 	<ul style="list-style-type: none"> Adjust ambient temperature to within the specified range (25°C to 35°C). Consistent print quality may not be possible unless ambient conditions are within the specified range.
MACHINE TEMP./L **°C	<ul style="list-style-type: none"> Ambient temperatures are too low. 	
NCU Connect	<ul style="list-style-type: none"> A problem was detected with the NCU connection. Nozzle checking cannot be used. 	<ul style="list-style-type: none"> Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) If displaying again, contact your local distributor, our sales office, or service center.
Replace NCU	<ul style="list-style-type: none"> NCU sensor sensitivity is too low, and a problem occurred with the nozzle clogging detection. Nozzle checking cannot be used. 	<ul style="list-style-type: none"> The NCU must be replaced. Contact your local distributor, our sales office, or service center.
NCU Connect	<ul style="list-style-type: none"> A problem was detected with the NCU connection. Nozzle checking cannot be used. 	<ul style="list-style-type: none"> Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36)

Message	Cause	Corrective action
		<ul style="list-style-type: none"> If displaying again, contact your local distributor, our sales office, or service center.
NCU NZL CHK (HW) NozzleCheckOFF	<ul style="list-style-type: none"> A problem was detected with the nozzle clogging assessment. Nozzle checking cannot be used. 	<ul style="list-style-type: none"> Clean the NCU.  "NCU Cleaning"(P. 101)
NCU NZL CHK(MARK) NozzleCheckOFF		
NCU Center Pos NozzleCheckOFF	<ul style="list-style-type: none"> Printing position adjustment failed. Nozzle checking cannot be used. 	
NCU Flush Pos NozzleCheckOFF		
NCU SN Adjst NozzleCheckOFF	<ul style="list-style-type: none"> Sensor sensitivity adjustment failed. Nozzle checking cannot be used. 	<ul style="list-style-type: none"> Clean the NCU.  "NCU Cleaning"(P. 101) If displaying again, contact your local distributor, our sales office, or service center.
Replace NCU Ink Pad	<ul style="list-style-type: none"> The ink absorber needs to be replaced. 	<ul style="list-style-type: none"> The NCU ink absorber must be replaced. Contact your local distributor, our sales office, or service center.
NCU Sensor Lv Low	<ul style="list-style-type: none"> The sensor's sensitivity is impaired. 	<ul style="list-style-type: none"> Clean the NCU.  "NCU Cleaning"(P. 101)
NCU Sens Adj Err H	<ul style="list-style-type: none"> Sensor sensitivity adjustment failed. 	<ul style="list-style-type: none"> Replace the NCU if the error does not clear. Contact your local distributor, our sales office, or service center.
NCU Sens Adj Err L		
Nozzle Missing Print Stopped	<ul style="list-style-type: none"> Nozzle clogging was found upon checking the nozzles, and printing was stopped. 	<ul style="list-style-type: none"> Perform head cleaning or change the nozzle checking conditions. If the message is displayed again, perform nozzle recovery.  "Head Cleaning"(P. 71)  "Nozzle Check Menu"(P. 90)  "Registering Nozzle Recovery"(P. 86)
NCU ERROR NozzleCheckOFF	<ul style="list-style-type: none"> An NCU error occurred during nozzle checking, so printing was stopped and nozzle checking was deactivated. 	<ul style="list-style-type: none"> Contact your local distributor, our sales office, or service center.
Operation Error Media Undetected	<ul style="list-style-type: none"> The media has not been detected. 	<ul style="list-style-type: none"> Ensure that the media is detected.
Operation Error MOTOR POWER OFF	<ul style="list-style-type: none"> The motor is stopped due to an open cover, for example. 	<ul style="list-style-type: none"> Wait until initialization is finished.
Operation Error Ink Error	<ul style="list-style-type: none"> An ink error occurred. 	<ul style="list-style-type: none"> Replace with new ink cartridges.
Operation Error COVER OPEN	<ul style="list-style-type: none"> The cover is open. 	<ul style="list-style-type: none"> Close the cover.
Data Remain	<ul style="list-style-type: none"> Print (RIP) data was received. 	<ul style="list-style-type: none"> Switch to REMOTE mode and start printing or clear the data and abort printing.

Ink Error

Message	Cause	Corrective action
Wrong Ink IC	<ul style="list-style-type: none"> The ink IC chip cannot be read correctly. An error occurred with the information on the ink IC chip. 	<ul style="list-style-type: none"> Make sure there is no nozzle clogging (especially for white ink). Check to confirm the ink IC chip was inserted correctly. Reinsert the ink IC chip. Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) If displaying again, contact your local distributor, our sales office, or service center.
Ink Type	<ul style="list-style-type: none"> The ink type registered on the IC chip is different from the ink type filled. 	<ul style="list-style-type: none"> Insert an ink IC chip for the correct type of ink.
Ink Color	<ul style="list-style-type: none"> The ink color registered on the IC chip is different from the ink color filled. 	<ul style="list-style-type: none"> Insert an ink IC chip for the correct ink color.
Non Ink IC	<ul style="list-style-type: none"> No ink IC chip was detected (no ink bottle loaded). 	<ul style="list-style-type: none"> Insert the ink IC chip. Check to confirm the ink IC chip was inserted correctly. Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) If displaying again, contact your local distributor, our sales office, or service center.
Ink End	<ul style="list-style-type: none"> The ink has run out. 	<ul style="list-style-type: none"> Replace with new ink.  "When Ink End is Displayed"(P. 43) If you use UISS, you may perform cleaning.
Ink Near End	<ul style="list-style-type: none"> Ink levels are low. 	<ul style="list-style-type: none"> The ink will run out soon. Have new ink ready.  "When Ink Near End is Displayed"(P. 43)
Ink expiration	<ul style="list-style-type: none"> The ink has expired (but can be used). 	<ul style="list-style-type: none"> Replace with new ink or use up as quickly as possible. It can be used until the month after next.  "When Ink End is Displayed"(P. 43)
Expiration1Month	<ul style="list-style-type: none"> The ink is one month past its expiration date (but can be used). 	<ul style="list-style-type: none"> Replace with new ink or use up as quickly as possible. It can be used until the next month.  "When Ink End is Displayed"(P. 43)
Expiration2Month	<ul style="list-style-type: none"> The ink is two months past its expiration date (but cannot be used). 	<ul style="list-style-type: none"> Replace with new ink.  "When Ink End is Displayed"(P. 43)

Error Message

Error number	Message	Cause	Corrective action
108	Error 108 HD THERMIS[12]	• A problem was detected with print head temperature control.	• Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36)
108	Error 108 HD CONNECT [12]	• A problem was detected with the print head connection.	
108	Error 108 HD MEM EMP [12]	• A problem was detected with the print head.	
108	Error 108 HD TYPE [12]		
122	ERROR 122C HECK:SDRAM	• A problem was detected with the main PCB.	
128	Error 128 HDC FIFO OVER	• A problem was detected with the print head control.	• Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) • If displaying again, contact your local distributor, our sales office, or service center.
128	Error 128 HDC FIFO UNDER		
129	Error 129 BATTERY EXCHANGE	• Depletion of the main PCB battery was detected.	
12a	ERROR 12a HDC SPEED	• A problem was detected with the print head control.	
130	Error 130 HD DATA SEQ		
148	Error 148 E-LOG SEQ	• A log control abnormality was detected.	• Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) • If displaying again, contact your local distributor, our sales office, or service center.
151	Error 151 Main PCB V1R2	• A problem was detected with the main PCB power supply circuit.	• Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36)
152	Error 152 Main PCB V2R5		• If displaying again, contact your local distributor, our sales office, or service center.
153	Error 153 Main PCB V3R3		
154	Error 154 Main PCB V05		
155	Error 155 Main PCB V36-1	• A problem was detected with the main PCB power supply.	
157	Error 157 Main PCB VTT		
15f	ERROR 15f HEAD DRIVE HOT	• The COM drive has overheated.	• Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36)
171	Error 171 NEW HEAD CONNECT	• A new print head connection was detected.	

Error number	Message	Cause	Corrective action
18c	ERROR 18c Main PCB V12		<ul style="list-style-type: none"> If displaying again, contact your local distributor, our sales office, or service center.
18e	ERROR 18e FLS NOT COMP	<ul style="list-style-type: none"> A problem was detected with the print head control. 	
18f	ERROR 18f OFSET START		
18f	ERROR 18f OFSET END		
19f	ERROR 19f LED CONNECT	<ul style="list-style-type: none"> The UV- LED PCB could not be detected. 	<ul style="list-style-type: none"> Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) If displaying again, contact your local distributor, our sales office, or service center.
1dc	ERROR 1dc Station4 PCB V24	<ul style="list-style-type: none"> A problem was detected with the Station4 PCB power supply. 	<ul style="list-style-type: none"> Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) If displaying again, contact your local distributor, our sales office, or service center.
1dd	ERROR 1dd Station4 PCB V24-A		
1e1	ERROR 1e1 G5HDC PCB V5	<ul style="list-style-type: none"> A problem was detected with the G5HDC PCB power supply. 	
1e2	ERROR 1e2 G5HDC PCB V36		
1e6	ERROR 1e6 PRAM Size Shortage	<ul style="list-style-type: none"> Insufficient memory 	<ul style="list-style-type: none"> Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) If displaying again, contact your local distributor, our sales office, or service center.
201	Error 201 Command Error	<ul style="list-style-type: none"> Data other than print (RIP) data was received, or a problem was detected with the print (RIP) data received. 	<ol style="list-style-type: none"> Clear the data and resend. Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) Check the USB cable connection.  "Using a USB Cable"(P. 37) Use a compliant USB cable.  "USB Connection Precautions"(P. 37)
202	Error 202 Parameter Error	<ul style="list-style-type: none"> A problem was detected with the print (RIP) data received. 	
206	Error 206 Print Mode Error	<ul style="list-style-type: none"> Print (RIP) data was received with print parameters that do not allow printing. 	<ul style="list-style-type: none"> Change the output parameters and profile using RIP software. If displaying again, contact your local distributor, our sales office, or service center.
304	Error 304 USB INIT ERR	<ul style="list-style-type: none"> A problem was detected with the USB cable connection. 	<ol style="list-style-type: none"> Check the USB cable connection.  "Using a USB Cable"(P. 37) Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) Use a compliant USB cable.  "USB Connection Precautions"(P. 37)
305	Error 305 USB TIME OUT		

Error number	Message	Cause	Corrective action
318	Error 318 SDcard Connection ERR	• A problem was detected with the SD card connection.	<ul style="list-style-type: none"> • Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) • If displaying again, contact your local distributor, our sales office, or service center.
401	Error 401 MOTOR X	• The X motor was overloaded.	1. Check to confirm the media is loaded correctly.  "Loading the Media"(P. 53)
402	Error 402 MOTOR Y	• The Y motor was overloaded.	2. Open the front cover and check for anything that may obstruct carriage movement.
403	ERROR 403X Overcurrent	• An overcurrent error was detected in the X motor.	3. Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36)
404	ERROR 404Y Overcurrent	• An overcurrent error was detected in the Y motor.	4. If displaying again, contact your local distributor, our sales office, or service center.
44e	ERROR 44e UV UNIT FAN ERROR	• A problem was detected with the UV-LED unit fan.	<ul style="list-style-type: none"> • Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) • If displaying again, contact your local distributor, our sales office, or service center.
44f	ERROR 44f Take-up Roll Sns Err	• An error was detected in the take-up sensor of the take-up unit. (The take-up sensor cannot be scanned correctly.)	<ol style="list-style-type: none"> 1. Check to confirm the [Machine Setup] > [Take-up Unit] setting is "ON". 2. Check to confirm the media is loaded correctly.  "Loading the Roll Media"(P. 57) 3. Check to confirm the take-up unit switch functions properly.  "Take-up Units for Prints and Release Paper"(P. 54)
4b5	ERROR 4b5 Bonding Roller Up	• The bonding roller was detected as up during printing.	<ul style="list-style-type: none"> • To resume printing, lower the bonding roller before continuing. • To stop printing, clear the print job.
4b6	ERROR 4b6 B Film End	• The end of the B Film (Application Film) has been detected.	<ol style="list-style-type: none"> 1. Check how the B Film (Application Film) is loaded. 2. Replace the B Film (Application Film).
504	ERROR 504CLAMP UP	• The clamp lever is lifted.	<ul style="list-style-type: none"> • Lower the clamp lever. • If displaying again, contact your local distributor, our sales office, or service center.
505	Error 505 Media Jam	• The media jam sensor was triggered.	<ul style="list-style-type: none"> • Remove the media in contact with the carriage and reload with fresh media.  "Loading the Media"(P. 53) • Open the front cover and check for anything that may obstruct carriage movement.
509	Error 509 HDC POSCNT	• A problem was detected with position control.	<ul style="list-style-type: none"> • Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36)

Error number	Message	Cause	Corrective action
50a	ERROR 50a Y Org Detect Error	• A problem was detected with Y origin detection (initialization).	
50c	ERROR 50c Check Media Width Sensor	• A problem was detected with media width detection.	1. Check the media loading position.  "Loading the Media"(P. 53) 2. Clean the media width sensor.  "Media Sensor Cleaning"(P. 105)
50f	ERROR 50f L-SCALE BLACK	• A problem was detected with the linear scale.	• Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36)
516	Error 516 Media Set Position R	• The media was loaded outside the range of valid positions.	1. Check the media loading position.  "Loading the Media"(P. 53) 2. Clean the media width sensor.  "Media Sensor Cleaning"(P. 105) 3. Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36)
519	Error 519 NEGATIVE P. SENSOR	• Negative pressure sensor automatic recognition failed.	• Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) • If displaying again, contact your local distributor, our sales office, or service center.
525	Error 525 Wrong Ionizer	• The ionizer internal circuit is defective, or an abnormal discharge occurred.	• Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) • If displaying again, contact your local distributor, our sales office, or service center.
526	Error 526 Ionizer Ion Level	• The amount of generated ions was reduced by fouling and abrasion of the electrode needle.	• Refer to the instruction manual for the ionizer and clean the electrodes. • If the problems persist, replace the corresponding probes.
527	Error 529 Ionizer Condition	• Ambient conditions may cause ions to be absorbed by metals in the vicinity and affect discharge capability.	• Remove any conductors or discharge devices close to the ionizer.
528	Error 528 Pump Motor	• A problem was detected with the pump motor.	• Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) • If displaying again, contact your local distributor, our sales office, or service center.
549	LEnc. Count DIO	• A problem was detected with the linear scale wiring to the DIO PCB.	• Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) • If displaying again, contact your local distributor, our sales office, or service center.

Error number	Message	Cause	Corrective action
551	HDC DIO LENC count	<ul style="list-style-type: none"> A problem was detected with the HDC and DIO PCB encoder values. 	<ul style="list-style-type: none"> Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) If displaying again, contact your local distributor, our sales office, or service center.
608	Error 608 WRONG INK IC	<ul style="list-style-type: none"> An error occurred with the information on the ink IC chip. 	<ol style="list-style-type: none"> Check to confirm the ink IC chip was inserted correctly. Replace with new ink.  "Replacing Ink"(P. 44) Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) If displaying again, contact your local distributor, our sales office, or service center.
61A	ERROR 61A InkOverflow	<ul style="list-style-type: none"> The sub tank float sensor detected the limit. 	<ul style="list-style-type: none"> Execute [Maintenance] > [Overflow]. If displaying again, contact your local distributor, our sales office, or service center.
61B	ERROR 61B Ink Supply	<ul style="list-style-type: none"> Ink supply to the sub tank failed. 	<ul style="list-style-type: none"> Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36)
61d	ERROR 61D NEGATIVE P. NotEnough	<ul style="list-style-type: none"> Negative pressure cannot be properly maintained. (On the positive side) 	<ul style="list-style-type: none"> If displaying again, contact your local distributor, our sales office, or service center.
61e	ERROR 61E NEGATIVE P. OVER	<ul style="list-style-type: none"> Negative pressure cannot be properly maintained. (On the negative side) 	
620	Error 620 Positive P. NotEnough	<ul style="list-style-type: none"> Positive pressure cannot be properly maintained. (On the negative side) 	
621	ERROR 61A Positive P. Over	<ul style="list-style-type: none"> Positive pressure cannot be properly maintained. (On the positive side) 	
650	Error 650 NCU Connect	<ul style="list-style-type: none"> A problem was detected with the NCU connection. Nozzle checking cannot be used. 	<ul style="list-style-type: none"> Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) If displaying again, contact your local distributor, our sales office, or service center.
651	Error 651 Replace NCU	<ul style="list-style-type: none"> A problem was detected with the nozzle clogging assessment. Nozzle checking cannot be used. 	<ul style="list-style-type: none"> The NCU must be replaced. Contact your local distributor, our sales office, or service center.
652	Error 652 NCU NZL CHK (HW)	<ul style="list-style-type: none"> A problem was detected with the nozzle clogging assessment. 	<ul style="list-style-type: none"> Clean the NCU.  "NCU Cleaning"(P. 101)
653	Error 653 NCU NZL CHK (MARK)		

Error number	Message	Cause	Corrective action
654	Error 654 NCU Center Pos	• Printing position adjustment failed.	
655	Error 655 NCU Flush Pos		
656	Error 656 NCU SN Adjst	• Sensor sensitivity adjustment failed.	<ul style="list-style-type: none"> • Clean the NCU.  "NCU Cleaning"(P. 101) • If displaying again, contact your local distributor, our sales office, or service center.
657	Error 657 Replace NCU Ink Pad	• The NCU ink absorber is full.	<ul style="list-style-type: none"> • The NCU ink absorber must be replaced. Contact your local distributor, our sales office, or service center.
658	Error 658 NCU Sensor Lv Low	• The sensor's sensitivity is impaired.	<ul style="list-style-type: none"> • Clean the NCU.  "NCU Cleaning"(P. 101)
65b	ERROR 65b NCU Sens Adj Err H	• Sensor sensitivity adjustment failed.	<ul style="list-style-type: none"> • Replace the NCU if the error does not clear. Contact your local distributor, our sales office, or service center.
65c	ERROR 65c NCU Sens Adj Err L		
715	Error 715 InkHeater Thr	• A problem was detected with the ink heater thermistor.	<ul style="list-style-type: none"> • Turn off the power on the machine and turn it on after a while. • If displaying again, contact your local distributor, our sales office, or service center.
716	Error 716 InkHeater Tmp		
717	Error 717 InkHeater Brk		
901	Error 901 Operation Error	• The function is disabled due to an error.	<ul style="list-style-type: none"> • Check the error details.
902	ERROR 902 Data Remain	• An operation was performed that was not possible with the print data received.	<ul style="list-style-type: none"> • Clear the data and stop printing.
90d	ERROR 90d NO HEAD SELECT	• A problem was detected with the print head.	<ul style="list-style-type: none"> • Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) • If displaying again, contact your local distributor, our sales office, or service center.
90f	ERROR 90f Print Area Short	• The media is too small for the print.	<ul style="list-style-type: none"> • Replace with wider or longer media. • If the printable area is reduced due to a shift in the origin, move the origin to increase the size of the printable area.
B0A	ERROR B0A CTC PCB Vpow	• A problem was detected with the CTC PCB power supply voltage.	<ul style="list-style-type: none"> • Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) • If displaying again, contact your local distributor, our sales office, or service center.
B0B	ERROR B0B CTC PCB V24		
B0C	ERROR B0C CTC PCB V5R0		

Error number	Message	Cause	Corrective action
B0D	ERROR B0D CTC PCB V3R3		
B0E	ERROR B0E CTC PCB V2R5		
B0F	ERROR B0F DIO PCB Uvpow	<ul style="list-style-type: none"> A problem was detected with the UV-DRV PCB power supply voltage. 	<ul style="list-style-type: none"> Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) If displaying again, contact your local distributor, our sales office, or service center.
B19	ERROR B19 Station4 PCB V36	<ul style="list-style-type: none"> A problem was detected with the station IV PCB power supply. 	<ul style="list-style-type: none"> Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36) If displaying again, contact your local distributor, our sales office, or service center.

SYSTEM HALT

Error number	Message	Corrective action
406	WIPER ORG	<ol style="list-style-type: none">1. Clean the wiper and around the wiper.  "Wiper Cleaning"(P. 97)2. Turn off the power on the machine and turn it on after a while.  "Turning Off the Power"(P. 36)



- If any other SYSTEM HALT number is displayed, Turn off the power on the machine and turn it on after a while. "Turning Off the Power"(P. 36)

Chapter 6 Appendix



This chapter

This chapter describes the machine specifications.

6.1 Specifications

Item		UJV300DTF-75
Print head	Type	On-demand piezo head
	Specifications	Two in-line print heads arranged in 4 rows
	Resolution	Y: 300 dpi, 600 dpi, 1200 dpi X: 600 dpi, 900 dpi, 1200 dpi
Ink set	4-color, W, CL	C, M, Y, K, W, CL
Media	Type	UV DTF media
	Maximum printing width	620 mm
	Maximum width	650 mm ^{*1}
	Minimum width	210 mm
	Thickness	Max. 1.0 mm
	Roll external diameter ^{*2}	Max. 250 mm (paper media), max. 210 mm (other media)
	Roll weight ^{*2, *3}	Max. 45 kg
	Paper core internal diameter ^{*4}	2 inches or 3 inches
	Printing face	Exterior/interior
	Roll end	Taped or loosely affixed to paper core
Print margins	Left/right	15.0 mm (default), minimum: Left/right 15 mm
	Top end	120 mm
	Bottom end	150 mm
Distance accuracy ^{*5}	Absolute accuracy	±0.3 mm or ±0.3 % of specified distance, whichever is greater
	Duplicability	±0.2 mm or ±0.1 % of specified distance, whichever is greater
Perpendicularity		±0.5 mm/1,000 mm
Media skew		Not more than 5 mm/10 m
Printing gap		Manual, three settings (2.0, 2.5, 3.0 mm)
Origin alignment		LED pointer
Ink supply		Ink bottle
Maintenance liquid feed		N/A
Waste Ink Tank		Bottle type (2,000 ml)
Take-up unit		Selectable inside/outside winding
Release paper unit		Selectable inside/outside winding
Media heater		POST
NCU (Nozzle clogging detection)		Provided

Item		UJV300DTF-75
UV unit		Air-cooled LED UV emitters x2
Image buffer		SD-RAM: 2 GB
Interface	Data transfer function	USB 2.0 Hi-speed, Ethernet 1000BASE-T
Command		MRL-V
Languages		English, Japanese, Chinese, Turkish, Portuguese
Noise levels	During standby	Not more than 55 dB (FAST-A, 1 m on all sides)
	Continuous operation	Not more than 65 dB
	Non-continuous operation	Not more than 70 dB
Compliance with standards		VCCI Class A, FCC Class A, IEC 62368-1 ETL compliant, CE marking (EMC Directive, Low Voltage Directive, Machinery Directive, RoHS Directive), CB certified, REACH, EnergyStar, RCM mark, KC certified
Power supply specifications ^{*6}		Single-phase 100 to 120 V AC ±10%/12 A, single-phase 200 to 240 V AC ±10%/6 A, 50/60 Hz ±1 Hz
Power consumption	Standard	600 W
	Max	1,440 W
	Min	-
Installation environment ^{*7}	Permissible ambient temperature	20 to 30 °C
	Relative humidity	35 to 65 %RH (no condensation)
	Temperature range in which accuracy is guaranteed	20 to 25 °C
	Temp. range for guaranteed transfer	20 to 25 °C
	Temperature gradient	Not more than ±10 °C/h
	Dust	0.15 mg/m ³ (typical office)
	Maximum operating altitude	2000 m
External dimensions ^{*8}	Width	2,090 mm (2,380 mm)
	Depth	930 mm (1,150 mm)
	Height ^{excluding ink bottles}	1,475 mm (1,054 mm)
Weight ^{*8}		180 kg (250 kg)

*1. 640 mm if the B Film (Application Film) uses a 2-inch paper core

*2. External diameter and weight after winding media

*3. Free of sagging due to weight

*4. High-speed printing is possible only with 3-inch

*5. Excluding media size variation and fluctuations at initial loading

*6. Excluding options

*7. Ink discharge consistency will decrease in conditions outside this range

*8. Figures in parentheses indicate package dimensions

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MEMO

Operation manual

January, 2026

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MimakiTM

DH
KW

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FW : 1.3