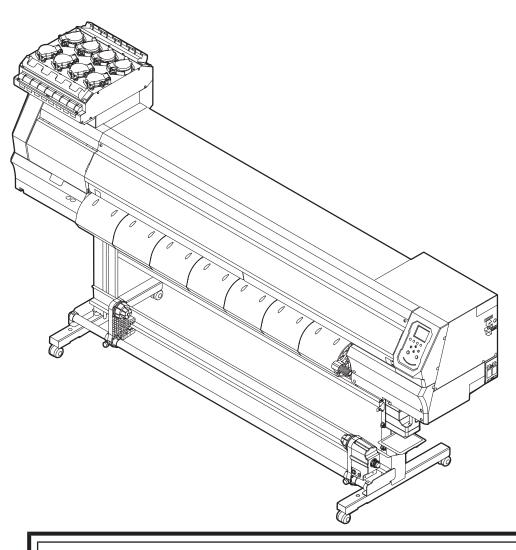
UV INKJET PRINTER

UJV100-160 UJV100-160PIu5

Operation Manual



You can also download the latest manual from official website.

MIMAKI ENGINEERING CO., LTD.

https://mimaki.com/

D203466-20
Original instructions

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Introduction

Thank you for purchasing the UV-LED curable inkjet printer UJV100-160, UJV100-160plus.

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 UJV100-160, UJV100-160plus ("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

Symbols

In this manual, the symbols indicate and explain precautions. Make sure you fully understand the meaning of each symbol and use the machine safely and correctly.

Explanation				
∆WARNING	Warning	Indicates a potential hazard that may result in death or serious injury if handled improperly or if instructions are disregarded.		
<u> </u>		Indicates a potential hazard that may result in minor or moderate injury if handled improperly or if instructions are disregarded.		
Notice Indicates a potential hazard that may result in property dama handled improperly or if instructions are disregarded.		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 spedrawn inside the symbol.		Indicates something that requires attention. Warning specifics are drawn inside the symbol.		
1		Indicates an action that must be carried out. The specifics of the mandatory action are drawn inside the symbol.		
		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.		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

MARNING



- 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.

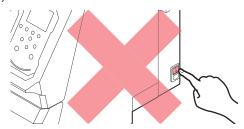


- Plug the power cable plug into a grounded power outlet. Otherwise there is a risk of failure, electric shock, or fire.
- When installing electrical outlets, perform grounding work to prevent electric shock. All electrical work (Class C grounding work; formerly Type 3 grounding work) must be handled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

MARNING



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

Handling the cutter

♠ CAUTION



· Avoid touching the cutter blade. Failure to do so may result in injury.

Ultraviolet light (UV) and the UV-LED unit

MARNING



- 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 safety glasses, face shields, masks, gloves, and long-sleeved clothing to protect the eyes and skin from ultraviolet light.
 - (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.



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.



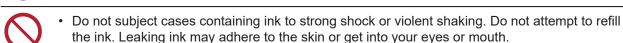
Be sure to read the safety data sheet (SDS) before use. https://mimaki.com/supply/sds/

♠ 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 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 the container or paper towel to which ink or other liquid is attached, 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.



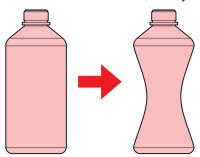
- Store ink, maintenance liquid, or other liquids used with the machine at a height of up to 1 m from the floor level. Otherwise there is a risk of scattering if the containers fall.
- Store in tightly sealed containers.
- Store in a cool, dark place.
 - (1) Store ink in a place where ink does not freeze. 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		
Туре		UV curing ink (MIMAKI product)		
Color		Cyan (C) Magenta (M) Yellow (Y) Black (K) White (W) Clear ink (CL)		
Form		Bottle		
Ink capacity		1,000 ml		
Expiration date		As indicated on the ink bottle However, within three months after opening, even before the expiration date		
Storage When stored temperature		5 °C to 30 °C (daily mean temperature) However, not more than 1 month at 30 °C • Ink quality may deteriorate if stored outside these conditions.		
	During transportation	1 °C to 60 °C However, not more than 120 hours at 60 °C, and not more than 1 month at 40 °C • 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.



• The ink expiration date is indicated on the ink container. 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

MARNING



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

NOTICE



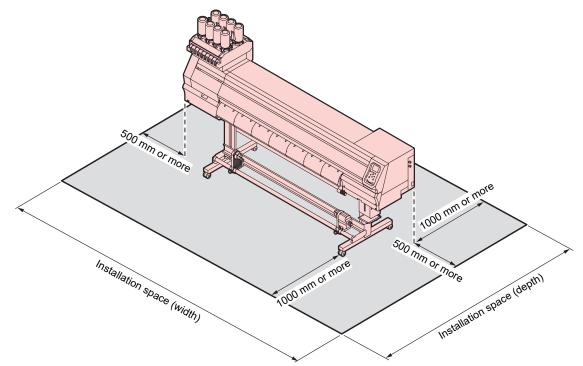
- Do not install this machine in locations where dust or powder is present. Failure or printing defects may result (e.g., nozzle clogging, deflection) if dust gets inside this machine.
- Do not install this machine in locations exposed to drafts (e.g., from air conditioning). Disregarding this precaution may result in dust or powder getting inside this machine.
- Do not install this machine in unstable locations or locations subject to vibration. This will increase the risk of failure or printing defects (e.g., nozzle clogging, deflection).
- Do not install this machine in locations exposed to direct sunlight.
- Do not install this machine in locations subject to sudden temperature changes. This will increase the risk of failure or printing defects (e.g., nozzle clogging, deflection).
- Do not install this machine in locations exposed to excessive noise from large machinery.
- Do not install this machine in locations where photographic fixing agents generate vapor or acid gas (e.g., acetic acid, hydrochloric acid) or locations filled with metal working fluids or highly volatile substances (e.g., amines, amine-modified alcohols). Malfunctions or printing defects may result (e.g., nozzle clogging, deflection) as print head ink is more likely to harden under such environments.



- 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	UJV100-160
Width ^{*1}	3775 mm or more (2,775 mm)
Depth*1	At least 2,700 mm (700 mm)
Height ^{* 1,*2}	(1,475 mm)
Weight	167 kg

^{*1.} The figures in parentheses indicate machine dimensions.

When Relocating This Machine

Contact your local dealer or our service office. Attempting to handle relocation yourself may result in failure or damage.

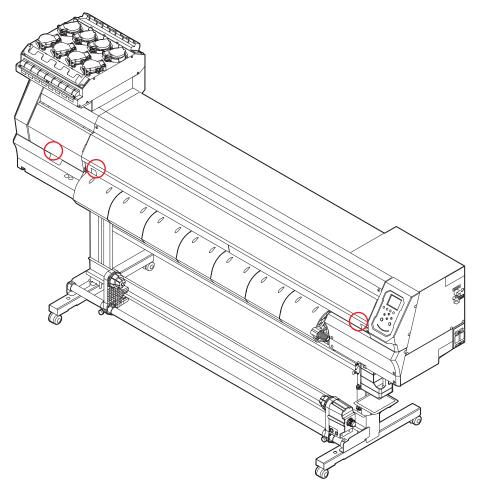
^{*2.} Excluding the Ink bottle height

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.

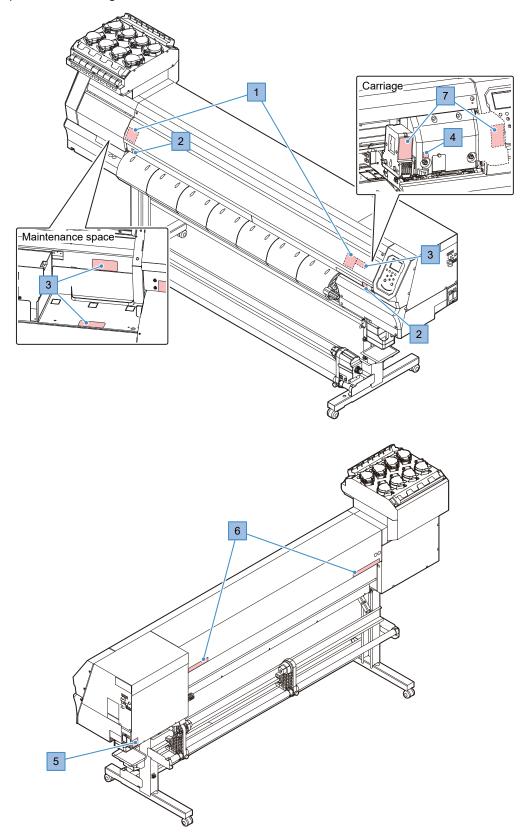
· Safety interlock locations



Warning Labels

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

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



No.	Order code	Label	Details
1	M910931	COVER HAZARD May result in severe injury. When open and close the cover, hold a cover until the end. COUVERCLE-DANGER Peut entrainer de graves blessures. Lors de l'ouverture ou de la fermeture du couvercle, tenir le couverel jusqu'à la fin. カバー海港下あり 消を検索れると、ケガや骨折 のおれるり。 カバーの開閉は、最後まで手 を放えて行ってください。	Beware of opening and closing parts. Injury may result if hands become trapped.
2	M907833		Indicates dangerous moving parts.
3	M903330		Wear safety glasses and gloves while working.
4	M903405		Beware of the cutter.
5	M907935	4	Indicates dangerous live parts.
6	M905811	本学 会 学 会 会 会 会 会 会 会 会 会 会 会 会 会 会 会 会 会	Indicates dangerous moving parts.
7	M913419	WARNING AVERTISSEMENT 管在 ULTRAVIOLET RADIATION RAYONS ULTRAVIOLETS 整件系统过 整件系统过 整件系统过 整件系统过 整件系统过 要性,是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是是	Beware of ultraviolet light.
8	M906144		Indicates hot parts. (This nameplate is attached to the option.)

Chapter 1 Before Use



This chapter

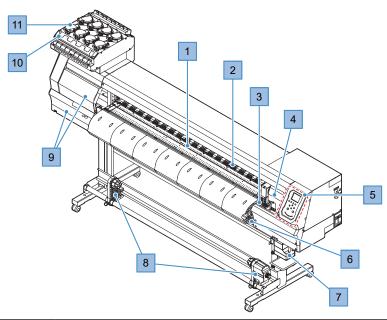
This chapter describes information essential before use, such as part names.

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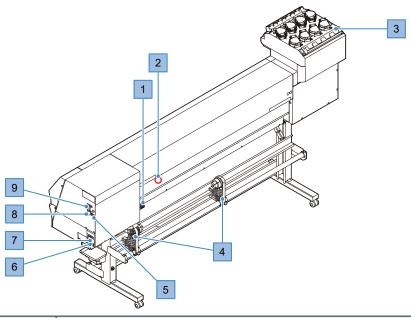
1.1 Part Names and Functions

Front



No.	Name	Overview		
1	Platen	Print area. 🕾 "Platen"(P. 25)		
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. 24)		
3	Capping station	ncludes caps, wipers, and an NCU for monitoring print head nozzle conditions. © "Capping station"(P. 24)		
4	Carriage	Consists of a print head, a UV-LED lamp, the jam sensor, and the media cutter. Tarriage"(P. 24)		
5	Operating Panel	Includes operating keys and displays indicating various settings and other items. Toperating Panel"(P. 27)		
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. 119)		
8	Take-up unit	Rolls up the printed roll media. 💝 "Take-up unit"(P. 56)		
9	Maintenance cover	Open the cover to perform maintenance on the carriage underside. Printing and automatic maintenance are not possible while the covers are open.		
10	Ink wipe filter	Filter for soaking up ink droplets from the ink bottle caps.		
11	Ink supply unit	The ink bottle is inserted here to supply ink to the print head. This ink method Ink met		

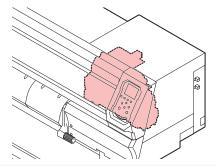
Rear and Right Side View



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. 25)		
3	Ink wipe filter	Filter for soaking up ink droplets from the ink bottle caps.		
4	Feeding unit	Holds the roll media before printing. Compatible with 2-inch and 3-inch paper rolls		
5	Ink IC chip slot	The ink IC chip provided with the Ink bottle is inserted here to register Ink bottle information. Tepplacing Ink"(P. 40)		
6	AC inlet	Use the power cable provided. Tonnecting the Power Cable (P. 31)		
7	Main power switch	The main power supply for the machine. To prevent print defects attributable to the print head (e.g., nozzle clogging, deflection), do not turn off the main power supply. Turning On the Power"(P. 31) Turning Off the Power"(P. 32)		
8	LAN port	Used when using the network function. Tusing a LAN Cable (P. 34)		
9	USB port	Connects to PC via a USB interface cable. Tusing a USB Cable (P. 34)		

Carriage

The carriage includes a print head for ejecting ink, a UV-LED lamp for curing UV ink, and a jam sensor for stopping the carriage when media clogs. Printing occurs as ink is ejected while traversing left and right.



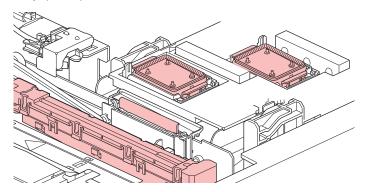


 Be sure to use the UV safety glasses provided. Disregarding this precaution may result in eye pain or damage to eyesight.

Capping station

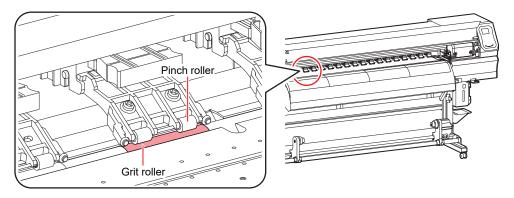
The capping station includes caps for keeping the print head nozzle surface from drying out, a wiper required for print head maintenance, and an NCU for monitoring print head nozzle conditions.

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. The "Nozzle check menu" (P. 92) Registering Nozzle Recovery (P. 84)



Pinch Rollers and Grit Rollers

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



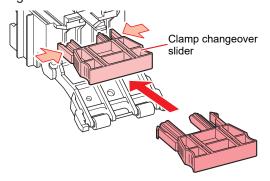


When the machine is not in use, raise the clamp lever to <u>separate the pinch rollers from the grit</u> rollers.

- 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.

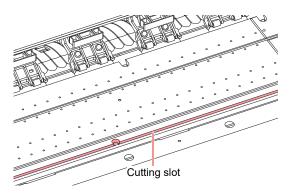


 Attach the clamp changeover sliders to the pinch rollers at the left and right-hand ends of the media. The pinch rollers can be raised by attaching clamp changeover sliders. This prevents gripping the left and right-hand ends of the media for consistent feeding.



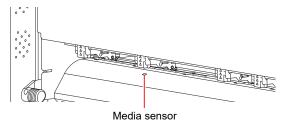
Platen

Print area. The platen secures the media under vacuum pressure. This also features a cutting slot for cutting the media.



Media Sensor

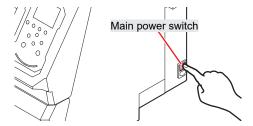
The media sensor detects the presence/absence of media. The sensor must be covered by the media to detect the media width.



Power Supply Switch

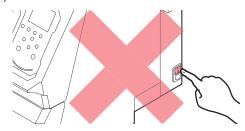
Main power switch

This is located on the right-hand side of the product.





• 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.

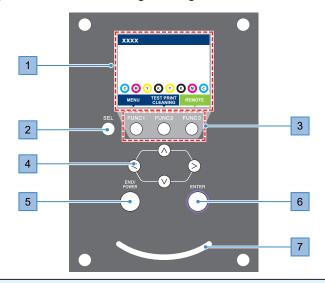




Close the front cover and maintenance covers. Leaving any of the covers open will disable the automatic maintenance function (including nozzle clogging prevention function and waste ink draining channel cleaning function). This will increase the risk of failure or ejection failures (e.g., nozzle clogging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

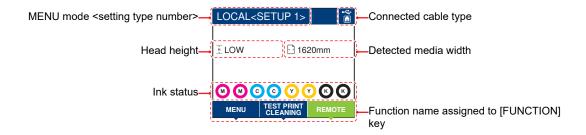
Operating Panel

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



No.	Name	Outline			
1	Display	© "Display"(P. 28)			
2	[SEL] key	Selects t	Selects the function for the corresponding [FUNCTION] key.		
3	[FUNCTION] key	1	Used for test printing, head cleaning, and editing settings @ "[FUNCTION] key"(P. 29)		
4	[JOG] key ▲ • •	Used to	Used to move the carriage, feed media, and select settings		
5	[END/POWER] key	menu, or	Jsed to cancel the last setting entered, return to the previous level of the setting nenu, or to turn power on and off Illuminates in blue when the power is on. "Turning On the Power"(P. 31) To turn off the power, hold down the key. "Turning Off the Power"(P. 32)		
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. 30)			
7	Status lamp	This lam	p indicate	s the product status.	
		Off Indicates LOCAL mode. Used for test printing, maintenance, and settings			
		Light Illumina Indicates REMOTE mode. The product is in standby to blue ted print data.		l ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
		1 1 1		Indicates printing is underway. This also flashes to indicate test printing—for example, when printing built-in patterns.	
ted mode and start printing Red Flashin An error has occurred. Refer to the		l	'		
		An error has occurred. Refer to the error code list and take appropriate action. Terror Message"(P. 132)			
		Illumina An error (SYSTEM HALT) has occurred. Contact our sted office. SYSTEM HALT"(P. 136)			

Display



MENU mode

Four menu modes are available.

Name	Outline
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								
M	Displays remaining ink levels using a 9-stage icon.								
	M	M	M	M´-	(M (-	(M/-	M'-	- M -	
	Full	1/8 used	1/4 used	3/8 used	1/2 used	5/8 used	3/4 used	7/8 used	
- M -	Displayed when ink is nearly depleted Very little ink remains. Prepare fresh ink.								
	Printing is not possible. Displayed when ink is depleted or an ink error has occurred. This error"(P. 131)								
1	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. 13)								

[FUNCTION] key

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

Icon	Outline
MENU	Displays the various menu screens. © "Setup"(P. 79)
TEST PRINT CLEANING	Displays maintenance functions such as test printing and cleaning.
REMOTE	Used to switch from LOCAL mode to REMOTE mode.
ADJUST	Displays adjustment functions such as feed adjustment and drop position adjustment.
DATA CLEAR	Clears received data.
LOCAL	Used to switch from REMOTE mode to LOCAL mode
СИТ	Used to cut media
<<	Used to move to the previous menu screen
>>	Used to move to the next menu screen
ок	Used to close the confirmation screen in response to prompts or other messages
OFF	Used to disable functions
$\overline{\psi}$	Indicates that the function is assigned. Displays settings and functions.
*	Used to enable or disable multiple items

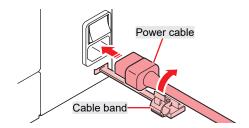
Displaying Machine Information (Local Guidance)

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

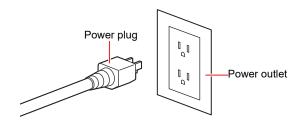
- Ink information: Displays ink type, remaining ink levels, and ink errors.
- Ink IC chip registration information: Displays the information registered on the ink IC chip.
- · Warning: Displays all warnings issued.
- Information: Displays information such as media width, head height, product serial number, 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.
- Insert the cable band to the machine.
- 3 Plug the power cable into the inlet of the machine.
- **▲** 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.

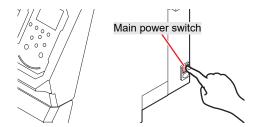




 Do not handle the power plug with wet hands. Disregarding this precaution may result in electric shock.

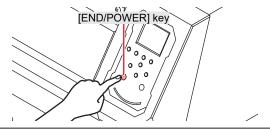
Turning On the Power

- 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".



? 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.





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

3 Turn on the power for the connected PC.



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).

Turning Off the Power



- · Check the following when turning off power:
 - (1) 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).
 - (2) 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).
 - (3) Data is not being received
 - (4) No errors have occurred.
 - Problems Causing Messages to Appear"(P. 129)

Turn off the power to the PC connected.

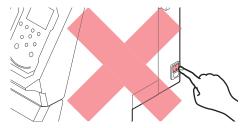
9 Hold down the [END/ POWER] key.

· 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.



· Use RIP software that supports the USB interface.



 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 UJV100-160 to a PC

The UJV100-160 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.

Data transfer speeds to this product may be reduced if the USB cable is extended. This may cause the carriage to temporarily stop at the left-hand or right-hand 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 this product may be reduced if external USB hard disk drives or similar devices are connected. This may cause the carriage to temporarily stop at the left-hand or right-hand 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 ** 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.



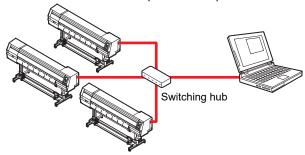
Do not unplug the cable while data is being transferred.

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 higher LAN cable.

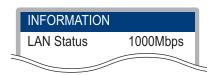
- The PC used to transfer print data must be located on the same network as this product. This product cannot be connected via a router.
- Use a 1000BASE-T compatible computer or switching hub. Printing requires 1000BASE-T support.



• Checking the LAN connection

Check the display on this product.

- Local guidance can be used for checking. Tiplical playing Machine Information (Local Guidance)"(P. 30)
- Printing is not possible if "100Mbps", "10Mbps", or "No Connect" is displayed. Event email can be used. Tevent Email Function Settings"(P. 90)



? Check the lamp on the LAN connector.

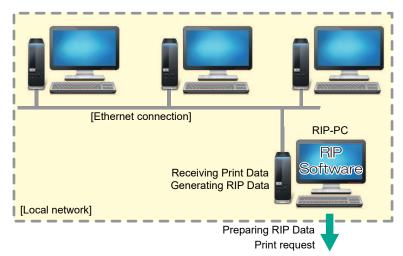
· The LAN connector lamp illuminates when the machine is running.

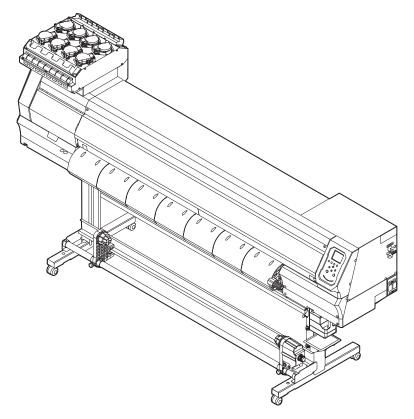


Color	Status	Overview
Green	Illuminated	Connected via 1000BASE-T
	Off	Connected via a network other than 1000BASE-T • 1,000 Mbps is not supported if only the orange lamp is illuminated or flashing. Check the specifications for the PC, peripheral devices, and cable.
Orange	Illuminated	Linked up (connected).
	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 [UJV100-160, UJV100-160plus] > [Driver/Utility]
- Install the MIMAKI driver.

Installing RIP Software

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.

- In RasterLink series, we offer the function to download and install color profiles directly from the Internet.
 For more information, refer to "Profile Installation" in the RasterLink installation guide.
 https://mimaki.com/download/software.html
 [RasterLink series in use] > [Manual]
- Our website provides color profiles for MIMAKI RIP software (RasterLink). https://mimaki.com/download/inkjet.html [UJV100-160, UJV100-160plus] > [Profile]

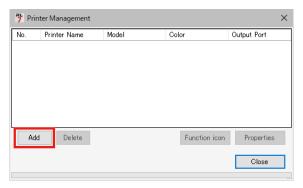
Setting Up RIP Software

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

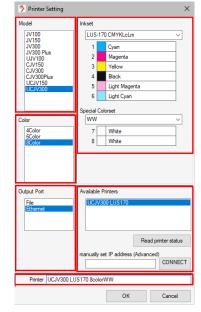
- Launch RasterLink.
 - · The [Printer Management] screen appears.
 - To add a new model, launch RasterLink, then select [Environment] > [Printer Management].

2 Register UJV100-160, UJV100-160plus.

(1) Click [Add].



(2) Set the specifics for UJV100-160, UJV100-160plus.



- Model: Select the model.
- · Color: Select the ink set filled.
- Output Port: Select the cable connected.
- Available Printers: Select UJV100-160, UJV100-160plus 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. 30)

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. 12)



• 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.





Ink Replacement Process

Mount a new ink bottle.

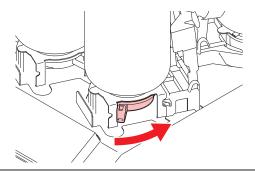
Register the ink IC chip provided with the ink bottle on this machine.

^{*} Mount a new ink bottle, clear the error (ink end or ink near-end), and register the ink IC chip.

Replacing Ink

Removing the lnk bottle

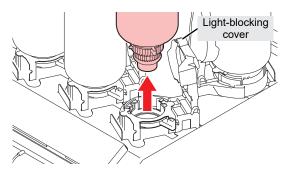
1 Rotate the lever on the tank section from left to right.





· 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.

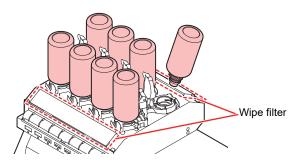


• The O-rings fitted to the bottle caps may become detached when removing ink bottles. Refit the O-ring if it becomes detached.



3 Soak up any ink droplets on the ink bottle caps.

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

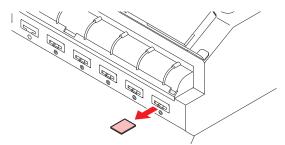


■ Wipe off any ink on the ink bottle caps with paper wipes.





- Check to confirm that there is no foreign matter, such as paper towel 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 ink bottle caps from the ink bottles.
 - If the ink bottle caps are tight, remove using a tightening tool.
- 6 Remove the ink IC chip.



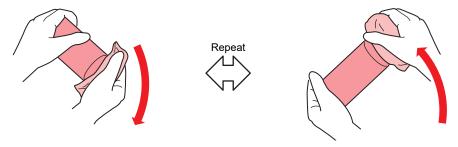


When disposing of ink, maintenance liquid or other liquid used with the product, or the
container or paper towel to which ink or other liquid is attached, contact an industrial
waste disposal operator or dispose of the product in accordance with the local laws and
regulations.

Preparing the lnk bottle

Shake the lnk 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 paper towel.





- · 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.

Remove the ink bottle lid.



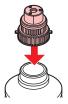
If the mouth of the ink bottle is fitted with a seal

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

Attach the ink bottle caps to the ink bottle.



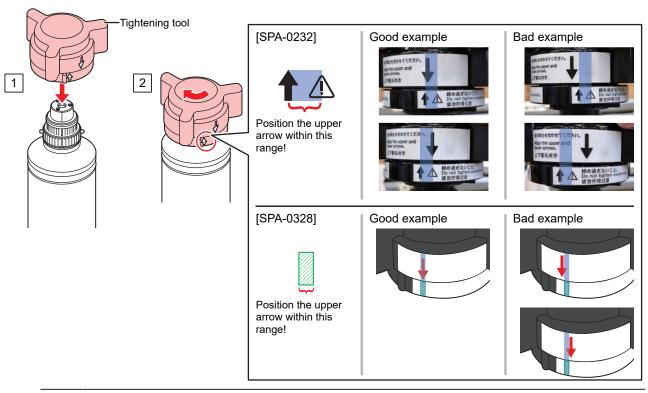


Wipe off any ink or maintenance liquid remaining on the ink bottle or the bottle cap.
 Otherwise there is a risk of ink leakage due to loosening of the ink bottle cap.



 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.

■ Use the tightening jig to tighten the ink bottle caps in place.





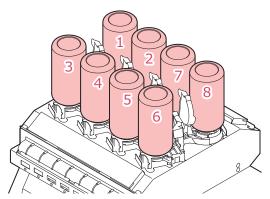
- Do not overtighten the ink bottle caps. Disregarding this precaution may result in damage, idling or ink leakage. If the arrow goes beyond the range indicated above, loosen the bottle cap, and repeat the steps again.
- Do not leave ink bottles with the ink bottle caps fitted for extended periods. Disregarding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

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



Mounting the lnk bottle

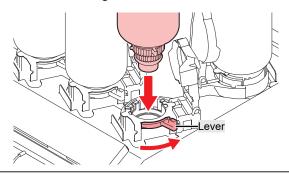
The order of lnk bottle to be set depends on the ink set you are currently using. Check the ink slot numbers, then insert the correct color lnk bottle.



Ink set	Ink bottle positions (specified by color)							
	1	2	3	4	5	6	7	8
4-color	М	С	Υ	K	М	С	Υ	K
4-color, W	М	С	Υ	K	-	-	W	W
4-color, W, CL	М	С	Υ	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.



7 Turn the lever from right to left to secure the bottle.



· 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.

Registering the lnk IC Chip

Printing is not possible unless the ink IC chip has been registered.



• 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.



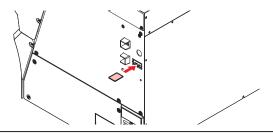
• Insert the ink IC chip with the metal side facing up. Inserting it in the wrong way may cause failure of the machine or damage the ink IC chip.

1 Switch to LOCAL mode.

• Chip registration is possible only in LOCAL mode.

1 Insert a new ink IC chip into the ink IC chip slot on the right-hand side of the product.

• A registration screen appears when the ink IC chip is inserted.





• When replacing two lnk bottle with the same color at the same time, select the slot number to be registered. Be careful to avoid registering a wrong slot number. Doing so may overwrite the ink IC information, and the ink will no longer be able to be used.

3 Press the OK button.

· The information on the ink IC chip is registered.





• Do not dispose of the ink IC chip. It is needed to rewrite the ink registration information on the ink IC chip.

• If the warning message appears, take appropriate actions by referring to the following.

Message	Cause	Corrective action
Color: Magenta Expiration: 2021/01/01 Caution: XX days until expiration	The ink expiration date is approaching.	Use the ink before the expiration period.
Registered IC chip	The ink IC chip inserted is already registered.	Replace with a new ink IC chip. "Registering the Ink IC Chip"(P. 45)
Unable to register. The registration limit was exceeded.	More than one was registered for each slot.	Use up the equivalent of one bottle before registering.
Unable to register. XXXXXXX (Error name)	 The ink IC chip could not be registered due to an error. 	Insert the correct ink IC chip. "Registering the Ink IC Chip"(P. 45)

Message	Cause	Corrective action
Expiration Over	The ink is two months past its expiration date and cannot be used.	Replace with new ink. Printing is not possible. "When Ink End is Displayed"(P. 39)
Ink Type	A different ink type is registered on the ink IC chip.	Insert an ink IC chip for the correct ink type. "Registering the Ink IC Chip"(P. 45)
Ink Color	A different ink color is registered on the ink IC chip.	Insert an ink IC chip for the correct ink color. "Registering the Ink IC Chip"(P. 45)
Wrong Ink IC	An error occurred with the information on the ink IC chip.	1. Check to confirm the ink IC chip was inserted correctly. Tegistering the Ink IC Chip"(P. 45)
	,	Turn off the main power and wait a while before turning back on.
		3. Replace with new ink. The "When Ink End is Displayed" (P. 39)
Replace Ink	The ink IC chip was registered when an ink end or ink near-end error occurred.	Mount new ink and register the ink IC chip.

· Ink IC chips

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



Marking locatio

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.

Checking Ink IC Chip Registration

To check ink IC chip registration information, press the [ENTER] key in LOCAL mode screen. To check ink IC chip registration information, press the [ENTER] key in LOCAL mode screen. Displaying Machine Information (Local Guidance)"(P. 30)

• The expiration date and total amount of ink registered is displayed.

• "---" will appear if no ink IC chip is registered or if no ink remains. If "---" appears, a new ink IC chip can be registered.



• Rewrite the ink registration information on the ink IC chip

You can replace with a new lnk bottle even if ink remains. If circumstances make it unavoidable to replace the ink bottle, rewrite the ink information registered in this machine on the ink IC chip. Rewriting allows the lnk bottle to be reused.

Insert the ink IC chip for the replacement lnk bottle.



- Use the ink IC chip on which the Ink bottle is registered. Other ink IC chips cannot be used.
- **?** Press the [FUNC3] key.





• The rewritten ink information is reset, and "Ink IC is not registered" appears.

Chapter 2 Printing



This chapter

This chapter describes printing procedures and settings.

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Feed Correction Procedure......65

2.1 Print Process

1. Turn on the power.

"Turning On the Power"(P. 31)



2. Connect a RIP PC to the machine.

"Using a USB Cable"(P. 34)

"Using a LAN Cable"(P. 34)

3. Setting Up RIP Software

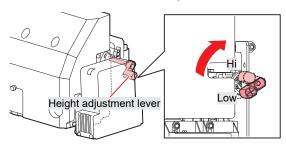
"Installing RIP Software"(P. 37) (required first time only)

"Obtaining Color Profiles"(P. 37)

"Setting Up RIP Software"(P. 37) (required first time only)

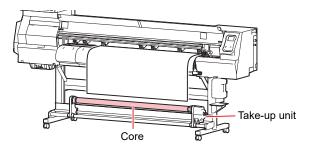
4. Adjust print head height.

Adjust the height adjustment lever to suit the media. The Head Height (P. 53)



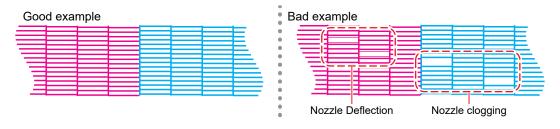
5. Loading the Media

This machine can be used with roll media. This machine can be used with roll media. Use "Loading the Media" (P. 55)



6. Check the state of the print head nozzles.

Test Printing"(P. 62)

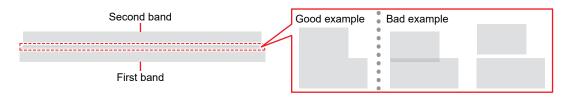


7. Clean the head to clear malfunctioning nozzles.

There are three different head cleaning methods. Choose the head cleaning method based on test print results. ** "Head Cleaning"(P. 64)

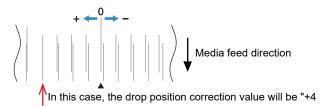
8. Adjust the media feed amount.

"Feed Correction"(P. 65)



9. Adjust the drop position for bi-directional printing.

"Correcting the Drop Position"(P. 67)

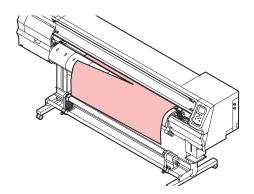


10. Printing RIP Data

(P. 71)

11 Cutting the Media

"Cutting the media"(P. 73)



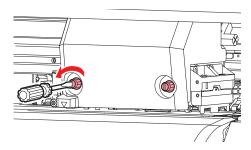
2.2 Adjust Print Head Height

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

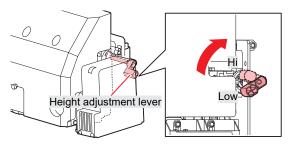
Range	Gap between print head and platen		
Low	2 mm (default setting)		
High	2.5 mm		



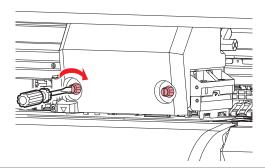
- Be sure to correct the dot position after altering the print head height. (P. 67)
- The print head height should normally be set to 2.0 mm. With inkjet printers, if the gap between the print and media increases, the ink droplets may vaporize before they reach the media. Vaporized ink will adhere to 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.
- **↑** On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- **9** Select [Station] > [Carriage Out] > [Move To Platen Right End], then press the [ENTER] key.
 - · The carriage moves over the platen.
- 3 Open the front cover.
- **4** Unscrew the carriage cover screws.
 - Use a flathead screwdriver to unscrew by approximately one turn.



- 5 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.



6 Retighten the carriage cover screws.





- Do not touch the height adjustment lever.
- 7 Once adjustment is complete, close the cover, then press the [ENTER] key.

2.3 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.



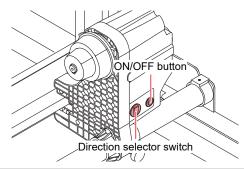
- Do not leave the media in the machine when not in use. Otherwise dust may accumulate on the media. Do not use media that has been wiped free of dust. Wiping media can generate static electricity, possibly affecting print quality.
- Do not use media immediately after removing it from the package. The 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.



 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.

Take-up unit

Use the switch on the take-up unit to change the media take-up direction.

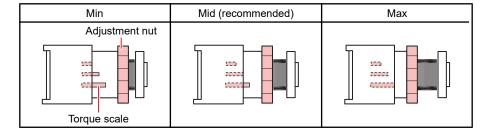


Name	Overview		
Direction selector	Up	To take up media with printed surface on the inside	
switch Down To take up media with printed surface on the outside		To take up media with printed surface on the outside	
ON/OFF button	Press the button to start/stop the take-up unit. The setting can be altered so that the take-up unit operates only while the button is depressed. "Machine setup menu"(P. 87)		

Adjusting the Torque Limiter

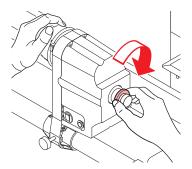
The take-up unit is fitted with a torque limiter.

Turn the torque limiter adjustment nut to adjust take-up tension. The torque limiter is initially set to "Medium" when shipped.



Increase tension (clockwise)

Increase tension when using with heavy or thick media, such as tarpaulin. Perform adjustments manually.

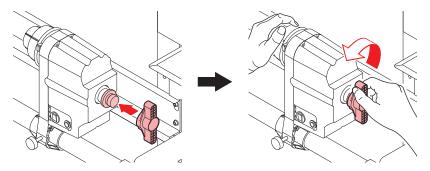




• Do not use the torque adjustment handle. Using the torque adjustment handle will cause overtightening. Overtightening may damage the take-up unit.

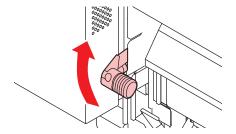
• Decrease tension (counterclockwise).

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

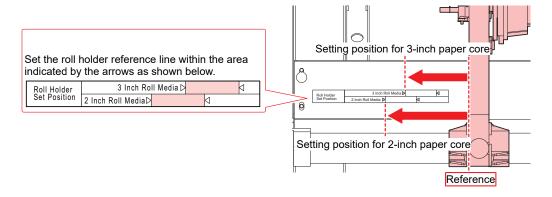


Loading the Roll Media

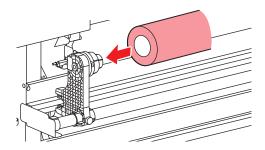
1 Raise the clamp lever.



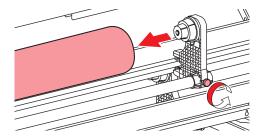
- **9** Move the rear left roll holder to the roll setting position.
 - · Unscrew the roll holder retaining screw before moving.



- 3 Tighten the retaining screw on the rear left roll holder.
- ⚠ Place roll media on the roll media hanger.
- 5 Insert the paper core of the roll media on to the rear left roll holder.
 - · Push in until the paper core moves no farther.



- 6 Insert the rear right roll holder into the paper core.
 - · Unscrew the roll holder retaining screw before moving.



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

R Insert the media.

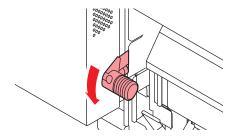
· Insert into the gap between the pinch rollers and the grit rollers.



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

Q Lower the clamp lever.

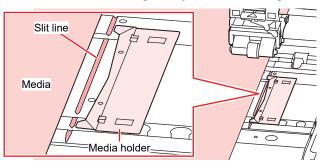
· Hold the media with the pinch roller and grit rollers.



- 1 Nove to the front of the machine and open the front cover.
- 1 Raise the clamp lever and pull out the media.
 - · Make sure the media does not fall to the rear.



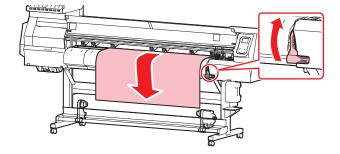
 Adjust the rear roll holder position so that the media does not cover the right-hand slit line on the platen. Movement at an angle may result in damage to the print head.





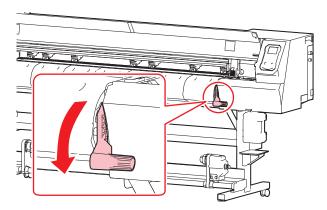
• The areas extending 5 mm from both sides of the media are margins.

12 Gently pull out the media and stop at the position where it is gently locked in place.

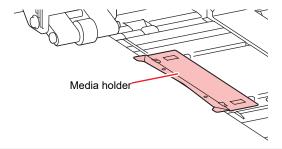


- 13 Check how far the media was pulled out.
 - Pull the front edge of the media gently at several points to confirm that the media was pulled out by the same amount.

14 Lower the clamp lever.



15 Secure the media in the media holder.





Do not use the media holder when printing on thicker media.

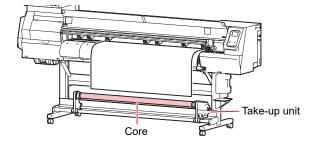
16 Press **③**, then select "Roll".

- · This starts media width detection.
- If the setting for [Machine Setup] > [Media Detect] > [Detection Type] is "MANUAL", the area for printing must be determined manually.
- If the setting for [Machine Setup] > [Media Detect] > [Media Remain] is "ON", the media length input screen will be displayed.



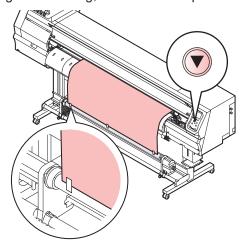
 A notification reading "Media Set Position R" will appear after media width detection if the media is too far to the right of the specified position. Reload media in the specified position.

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



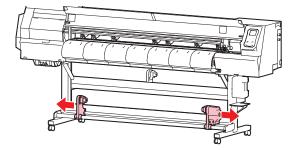
18 Secure the media to the take-up unit.

- (1) Press v to feed the media until it reaches the core on the take-up unit.
- (2) Secure the middle of the media with adhesive tape.
- (3) Secure the media on the right and left in the same way.
 - Pull the lower edge of the media evenly on both the left and right sides, check to confirm that it is free of sagging and creasing, then affix the tape.



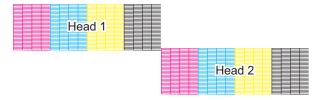


• Move the take-up unit to the left or right when it is not in use. Print quality may be affected if the front edge of the media hits the take-up unit.



2.4 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. 64)



Check beforehand

- Was the print head adjusted? The Adjust Print Head Height (P. 53)
- Is media loaded? The Media (P. 55)



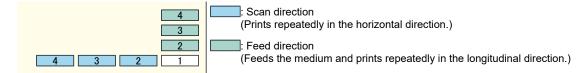
Load media at least 500 mm wide. You cannot print the entire pattern if media less than 500 mm wide is used.



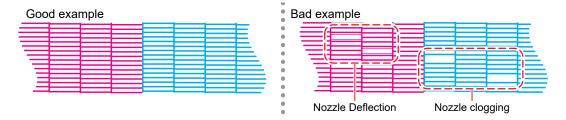
- Select [Maintenance] > [Nozzle Recovery] > [Test Print], then select "ON" to perform nozzle recovery and test printing.
- Registration is required to perform nozzle recovery. Tegistering Nozzle Recovery"(P. 84)
- The ink used in this machine is warmed before printing. Printing is disabled while the ink is warmed.

Changing the Layout Direction for Test Printing

You can change the layout direction for test printing.



- 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 [Scan Dir.] or [Feed Dir.], then press the [ENTER] key.
 - · Test printing starts.



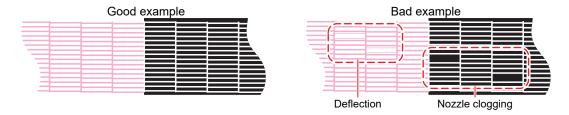
3 Check the print results.

Checking White Ink Ejection

The following two methods are available for checking white ink:

· Print on clear film.

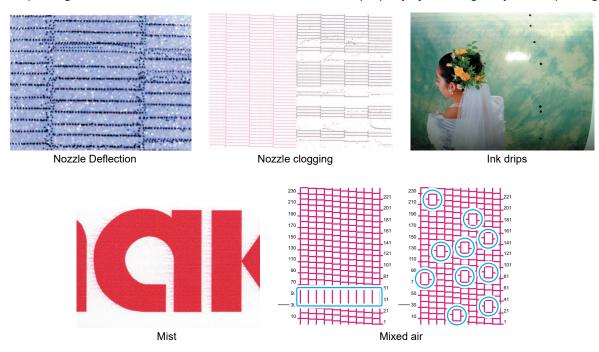
- Print the background for the test pattern using black ink.
- Method for printing the background using black ink
 - 1 On the LOCAL mode screen, select [TEST PRINT/CLEANING] > [Test Print], then press the [ENTER] key.
 - The Test Print menu is displayed.
 - **9** Select [SpotColor Check], then press 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.



2.5 Head Cleaning

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

Item	Details
Soft	If the print shows a bent line (deflection)
Normal	If the print shows a missing line (nozzle clogging)
Hard	If soft cleaning and normal cleaning fail to resolve print defects (e.g., nozzle clogging, deflection)



Cleaning is not possible when [Ink Near End] or [Ink End] are displayed. Replace with new ink.
 "Ink Replacement Method"(P. 39)



- The ink used in the machine is warmed before printing. Printing and cleaning are 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.
- **9** 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.
- A 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 the ejection failures (e.g., nozzle clogging or deflection).
 - "Wiper Cleaning"(P. 99)
 - "Cap Rubber Cleaning"(P. 100)
 - "Print Head Nozzle Washing"(P. 126)

Refill with ink ([MENU] > [Maintenance] > [INK FILL]).

2.6 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? The Media"(P. 55)
- · 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. 58)



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

Pullback Printing (UCJV100Plus)



· UJV100Plus exclusive function.

Adjust [FeedComp./Pull-backPrint] when performing pullback printing. This correction value is applied when performing pullback printing.



For more information, refer to "UJV100Plus White Clear Printing Guide". https://mimaki.com/download/software.html

The adjustment procedure is the same as for [Feed Comp.]. Feed Correction Procedure"(P. 65)

- Performing [FeedComp./Pull-backPrint]:
- (1) Starts feeding the media backward and forward.
 - This causes the media to become slack.
- (2) Print a correction pattern.

Feed Correction Procedure

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

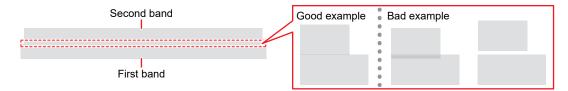


For pullback printing (UJV100plus):

• Select [Setup] > [FeedComp./Pull-backPrint].

Check the print results.

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



▲ 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.

- 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.

2.7 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? "Adjust Print Head Height"(P. 53)
- Is media loaded? The Media (P. 55)



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



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

Drop Position Correction Procedure

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

On the LOCAL mode screen, select [ADJUST].



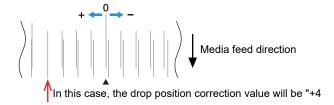
- **9** Select [Drop.PosCorrect], then press the [ENTER] key.
- 3 Select the resolution and press the [ENTER] key.
 - Select the resolution to be adjusted. When "All" is selected, correction patterns for all resolutions will be printed. "Setup Menu"(P. 80)



The indicated resolutions are those in the scan direction.
 (This is supported from firmware version 3.0.)

4 Check the print results.

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



- 5 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.

 "Adjust Print Head Height"(P. 53)
- 6 Enter the correction value in the same way for pattern 2 and subsequent patterns.

2.8 Preparing RIP data

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



Prepare suitable image data for printing.

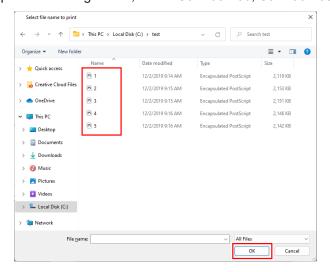
Launch RasterLink.

· Click the icon on the PC desktop.



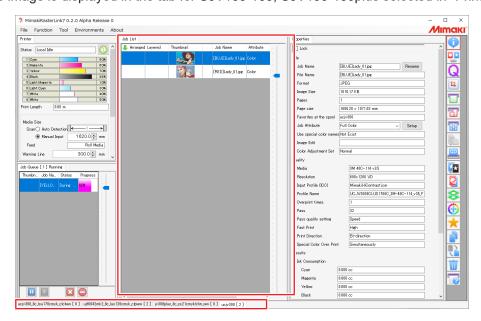
9 Select the image data to print.

- (1) Select [File] > [Open].
- (2) Select the desired image data, then click [Open].
 - If multiple printers are registered, select UJV100-160, UJV100-160plus in "Printer Name".



3 Select the image data imported.

• The image is displayed in the tab for UJV100-160, UJV100-160plus selected in "Printer name".



⚠ Check the settings and alter as necessary.

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

🔟 (normal printing): Specifies settings like enlargement/reduction and number of copies.

Q (print conditions): 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 UJV100-160, UJV100-160plus in the main window.
 - (2) Click (Update the printer status) in the Printer tab.

2.9 Printing

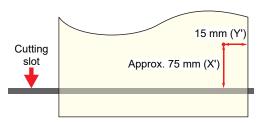
Check beforehand

- Was the print head adjusted? Tadjust Print Head Height (P. 53)
- Is media loaded? The Media (P. 55)
- · 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. 58)

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 **▲ ▼ ④ .**
 - · The Origin Setup screen appears.
- **?** Press ♠ ♥ ♦ b 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

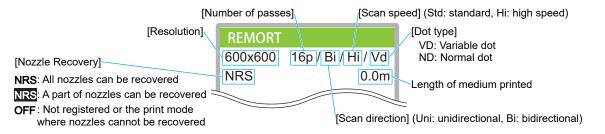
- 1 Send the RIP data from the PC.
 - # "Preparing RIP data"(P. 69)



 If the message "Attention20A Driver version" appears, install the latest Mimaki driver. https://mimaki.com/download/inkjet.html

9 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.
- The ink used in this machine is warmed before printing. Printing is disabled while the ink is warmed.

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.

Press [REMOTE].

· Printing resumes.



No other functions can be used when printing is paused.

Stopping Printing (Data Clear)

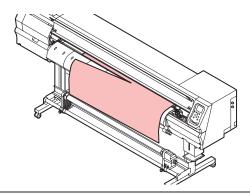
On the LOCAL mode screen, select [DATA CLEAR].



- **2** Press the [ENTER] key to clear the received data.
 - · The receive buffer is cleared.

2.10 Cutting the media

- **1** On the LOCAL mode screen, press **△ ▼ ④ .**
 - The Origin Setup screen appears.
- **2** Press (a) (v) to feed the media to the position required for cutting.
- 3 Select [CUT], then press the [ENTER] key.
 - · The media is cut.





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

2.11 Pullback Printing (UCJV100Plus)



• UJV100Plus exclusive function.



For more information, refer to "UJV100Plus White Clear Printing Guide". https://mimaki.com/download/software.html

Perform beforehand.

- Perform [FeedComp./Pull-backPrint] adjustment. (P. 65)
- Perform [Pull-back Origin Offset] adjustment. "When performing pullback printing with the register marks" (P. 74)

When performing pullback printing with the register marks

Follow the following instructions.



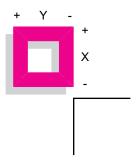
- · This is not applied to pullback printing without the register marks.
- 1 On the LOCAL mode screen, select [ADJUST].



- **?** Select [Pull-back Origin Offset], then press the [ENTER] key.
- 3 Select the resolution in the Y direction to be used for printing, then press the [ENTER] key.
 - Y resolution: 360Std, 720Hi, 1200Hi, 720Std, 1200Std
 - · Correction pattern printing starts.
- ⚠ Check the print results.
 - A correction value input screen appears.

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

- · Align the second layer with the first layer pattern.
- · Head 1 is filled with white ink: 1st layer (Magenta), 2nd layer (White).
- · Head 2 is filled with white ink: 1st layer (White), 2nd layer (Magenta).





- When the second layer pattern overlaps the register marks: Input a value of +.
- When the second layer pattern is away from the register marks: Input a value of -.

6 Press the [ENTER] key.

· Print another correction pattern to check.

If mark detection fails

Mark detection is performed once the first layer printing is complete. If mark detection fails, perform the following:



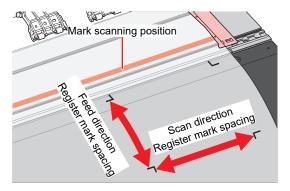
If mark detection fails when using transparent media

- Clean the platen (mark detection sensor position). Mark detection may fail if the platen is dirty.
- · Change the register marks to solid marks.
- Select the [SEL] key and press the [FUNC2] key.



9 Select [Mark detect] > [Semi Auto] and press [ENTER] key.

3 Press **③ ⑤** to feed so that the edge of printed register marks are at the bottom end of the platen.



⚠ Press the [ENTER] key.

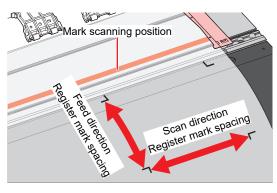
- · Register mark detection starts.
- The second layer printing starts once the register marks are successfully detected.
- · If mark detection fails, perform the following:

If Semi auto fails

Select the [SEL] key and press the [FUNC2] key.

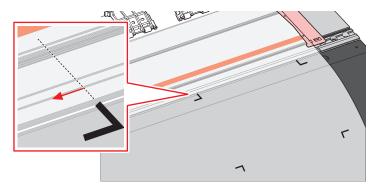


- 2 Select [Mark detect] > [Manual] and press [ENTER] key.
- Press **③ ▶** to feed so that the edge of printed register marks are at the bottom end of the platen.



4 Press **③ ▶** to move the carriage to the left side near the register marks position.

• Move the "↓" mark on the carriage cover to the left of the vertical register marks line.



5 Press the [ENTER] key.

- Register mark detection starts.
- The second layer printing starts once the register marks are successfully detected.

Chapter 3 Setup



This chapter

This chapter describes the [MENU] functions.

Setup Menu80	•	
Changing the name of a setting type 82	Event Email Function Settings	90
Maintenance Menu83		92
Registering Nozzle Recovery 84	Information menu	93

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.

Item		Setting		Details
		*1	*2	
Fe	ed Comp.	-9999 to <u>0</u> to 9999	-	Corrects the media feed amount. • Print a pattern and enter the correction amount. The print a pattern and enter the correction amount.
Dr	op.PosCorrect	-	-	Corrects the drop position for bi-directional printing. © "Correcting the Drop Position"(P. 67)
	(Resolution)	All/360std/720 std/720hi/120 0std/1200hi	-	Select the resolution to be corrected. When "All" is selected, correction patterns will be printed for all resolutions. (This is supported from firmware version 3.0.)
	(Correction Value)	-40.0 to <u>0</u> to 40.0	-	Check the pattern and enter correction values.
Αι	ito Correct		-	Detects a correction pattern with the sensor and automatically
	Feed Comp.	-	-	corrects the drop position (automatic correction function). • Check to confirm that the media does not lift up.
	Drop.PosCorrect	1	-	 Load white and clean media. Synthetic paper or cloth media may not be detected. Do not send the RIP data from the PC during pattern printing. If automatic correction is unsuccessful, correct the position manually. [MENU] > [Setup] > [Feed Comp.] or [Drop.PosCorrect]
	(Resolution)	All/720std/720 hi/1200std/12 00hi	-	Select the resolution to be corrected. When "All" is selected, correction patterns for all resolutions will be printed. (This is supported from firmware version 3.0.)
	(Correction value)	-40.0 to <u>0</u> to 40.0	-	Check the pattern and enter correction values.
FeedComp./Pull- backPrint		-9999 to <u>0</u> to 9999	-	Adjust this when performing pullback printing. Corrects the media feed amount specifically for pullback printing. • Print a pattern and enter the correction amount. * "Feed Correction"(P. 65)
Lo	gical Seek	HOST/ON/ OFF	OFF	Sets the range of carriage movement.

Item		Setting		Details	
		*1	*2		
				OFF: Machine size area Unidirectional print Bi-directional print	
				Carriage movement ON: Print data area	
				Unidirectional print Bi-directional print Print data Carriage movement	
Margin/l	Left	<u>HOST</u> /-10 to	0m	Sets the offset value from the media left and right standard	
Margin/Right		85 mm	m	 margins (15 mm). The left and right margins should be set to at least -5 mm when using the media holder. This eliminates the risk of printing on top of the media holder. 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. 	
Vacuum fan <u>HOST</u> /Weak/ Stro Standard/ ng Strong			Sets the force with which the medium is held down. This can be used to prevent media jamming and print head damage caused by the media lifting up.		
		HOST/10 to 100 to 200 %	100	 Sets the media feed speed. 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 Cle	eaning	-	-	Sets the conditions to perform auto head cleaning after the preset number of files are printed.	
SET	UP	File/Length/ <u>Time</u> /OFF	-	Sets the conditions to perform auto head cleaning.	
Inter	val	-	-	Sets auto head cleaning intervals.	
(F	ile)	1 to 1,000	-	Sets the interval at which the number of files is selected.	
(L	-ength)	0.1 m to 100.0 m	-	Sets the interval at which the print length is selected.	
Т)	Γime)	10 to <u>60</u> to 240 min	-	Sets the interval at which the print time is selected.	
Туре	•	Normal/Soft/ Hard	-	Sets the head cleaning type.	

Item		Setting		Details
		*1	*2	
Cleanin	ng Check	ON/OFF	-	Sets whether nozzle checking is performed after auto head cleaning is completed.
UV mode		ON/OFF/ NoPrint	ON	Sets whether to turn on or off the UV-LED lamp. ON: Turns on the UV-LED lamp. OFF: Turns off the UV-LED lamp. NoPrint: Turns on the UV-LED lamp without printing. (Not used under ordinary conditions)
MAPS4		-	-	MAPS: Mimaki Advanced Pass System 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	ļ	<u>AUTO</u> / MANUAL	-	This should normally be set to "AUTO". When set to "MANUAL", the following items are displayed:
Smo	oothing el	0 to 100 %	-	Increasing smoothing makes streaks less visible.
Spe	ed	50 to 100 %	-	Reducing speed will make streaks less visible. However, printing will be slower.
Expa	ansion	ON/OFF	-	Selecting "ON" will make streaks less visible. However, it may increase visible grain.
lonizer		ON/OFF	-	Sets the ionizer (optional). For more information, refer to the operating manual for the ionizer. • Displayed when an option is connected.
Setup Res	et	-	-	Initializes the details set.

^{*1.} The default settings are shown underlined.

Changing the name of a setting type

You can change the name of a setting type. The name can include alphanumeric characters or symbols.

- 1 On the LOCAL mode screen, select [MENU] > [Setup], then press the [ENTER] key.
 - The setting types are displayed.
- **9** Select Settings 1 to 4 and press the [FUNC2] key.
 - · The rename screen appears.
- 3 Enter the desired name, then press the [ENTER] key.
 - The setting type is renamed.

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

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

	Item Setting*1		Details
Sta	ation Maint.	-	This moves the carriage to allow station and print head maintenance.
	Carriage Out -		
	Move To Platen Right End	1	Cleans around the station, including the cap, wiper, and NCU. "Wiper Cleaning"(P. 99) "Cap Rubber Cleaning"(P. 100) "NCU Cleaning"(P. 101)
	Move To Maint. Space	1	Cleans around the print head. "Carriage Underside Cleaning"(P. 102) "Media Sensor Cleaning"(P. 105) "Automatic Correction Sensor (DAS) Cleaning"(P. 103)
	Nozzle Wash	1 to 60 min	Washes the print head nozzle surface with maintenance liquid to resolve ejection failures (e.g., nozzle clogging or deflection). "Print Head Nozzle Washing"(P. 126)
	Pump tube cleaning	-	Washes the suction pump tube (below the cap). "Ink Discharge Channel Cleaning"(P. 104)
	Custody Wash	1 to 60 min	Perform this step if the machine will not be used for extended periods. The function washes nozzles and drainage channels to maintain the machine in optimal condition. "When this Printer is Left Unused for a Long Time"(P. 107)
	Replace Wiper	-	Use this function when replacing the wiper. Replacing the wiper resets the wiper usage counter. "Wiper Replacement"(P. 110)
No	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).
	Print	-	Prints a pattern to check nozzle condition and register the nozzle. "Registering Nozzle Recovery"(P. 84)
	Entry	-	Registers the nozzle without printing a pattern.
	Reset	-	Initializes the details set.
	Check	-	Checks if nozzle recovery is possible for the registered nozzle. "Checking whether nozzle recovery is set correctly"(P. 85)
	Test printing	ON/OFF	Sets whether to perform nozzle recovery before test printing.
Au	Auto Maint		Sets various maintenance actions to be performed automatically. Set the interval between individual maintenance actions. • If the warning message "Replace Wasteinktank" appears, the automatic maintenance function is disabled. "Waste Ink Tank Replacement" (P. 119)
	Refresh	0.5 to <u>4.0</u> h	Sets the refresh interval. • 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.

	Item	Setting ^{*1}	Details
			Cleans the print head. This will help prevent nozzle clogging.
	Cleaning Type	Normal/ <u>Soft</u> / Hard	Sets the cleaning type for head cleaning.
W	Waste ink tank -		Resets or corrects the waste ink tank usage count. Tank Replacement (P. 119)
Fi	ll Up Ink	-	Fills the ink to resolve printing defects (e.g., nozzle clogging, deflection).

^{*1.} The default settings are shown underlined.

Registering Nozzle Recovery

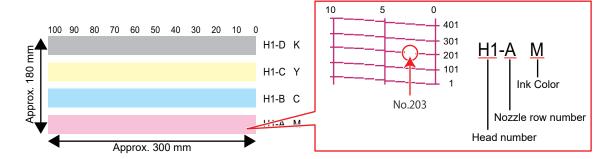
Allows other nozzles to be used for printing if maintenance actions like nozzle washing fail to resolve print defects (e.g., nozzle clogging, deflection).



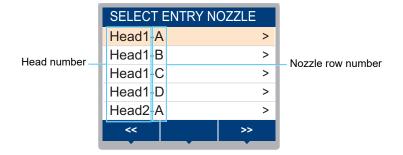
 Nozzle recovery can be specified for up to 10 nozzles per row. The time taken for printing remains unchanged even when nozzle recovery is set.



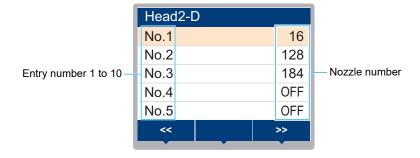
- Load media at least 500 mm wide. You cannot print the entire pattern if media less than 500 mm wide is used.
- 1 Position the media.
- **2** On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- Select [Nozzle Recovery] > [Print], then press the [ENTER] key.
- Select the head for nozzle recovery, then press the [ENTER] key.
- Select "Print Start", then press the [ENTER].
 - Print a nozzle recovery pattern.
 - · The Select Entry Nozzle screen appears once printing is complete.



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



- 7 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.



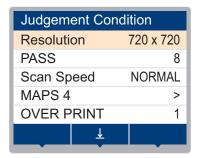
R Press the [ENTER] key once entry is complete.



 Select [Maintenance] > [Nozzle Recovery] > [Test Print], then select "ON" to perform nozzle recovery and test printing. "Test Printing"(P. 62)

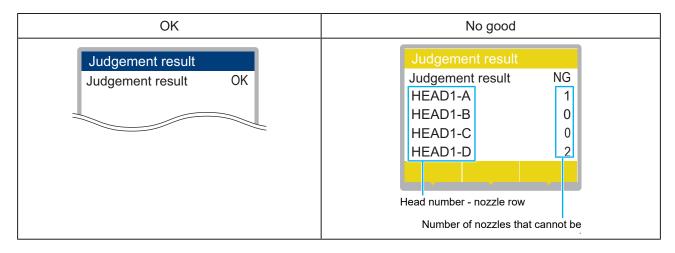
Checking whether nozzle recovery is set correctly

- 1 Load the media.
- In LOCAL mode, select [MENU] > [Maintenance], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- **3** Select [Nozzle Recovery] > [Check], then press the [ENTER] key.
 - · The Judgement screen will be displayed.
- ▲ Enter the desired printing conditions.



5 Press the [FUNC2] key.

• The judgment result is displayed.



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

3.3 Machine setup menu

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

Menu List

	Item	Setting ^{*1}	Details
Aut	Auto Power-off None/5 min to 15 min to 600 min		Sets the time until the power is automatically turned off.
Aut	to Power-on	-	Sets the time to automatically turn on the power and start warming the ink. Printing is disabled while the ink is warmed. Enabling auto power-on can reduce the time until the ink is warmed to the preset value. The machine goes to standby when no operation is performed for 20 minutes after the ink is warmed to the preset value. (This is supported from firmware version 3.0.)
	SETUP	ON/ <u>OFF</u>	Sets whether to turn on or off the power.
	Time	<u>0:00</u> to 23:59	Sets the time to turn on the power.
	Day of week	-	Sets whether to turn on or off the power on each day of the week.
	Nozzle check	ON/ <u>OFF</u>	Automatically executes the nozzle check function when the machine is started with auto power-on. 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	0 to 3 times	Performs nozzle recovery (cleaning followed by nozzle checking) for the specified number of times.
Tal	ake-up Unit -		Sets the take-up unit operation.
	Take-up Unit	ON/OFF	Set to "OFF" if the take-up unit is not used.
	Take-up SW	Continuous/ Temporary	Sets the function performed by the ON/OFF button on the take-up unit in LOCAL mode. • 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.
Me	dia Remain	ON/ <u>OFF</u>	The remaining roll media amount can be displayed and printed out in REMOTE mode. • ON: An input screen appears once the media width is detected. ▲ 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.
Ме	dia Detect	-	Sets the media width detection method.
1 1	DETECTION TYPE	<u>AUTO</u> / MANUAL	 AUTO: The media width is automatically detected with the sensor. MANUAL: Press to set the media width manually. When using media that cannot be detected using AUTO, set to "MANUAL".
	At Startup	ON/ <u>OFF</u>	The medium is detected automatically when the clamp lever is lowered after the machine starts up. Set to "OFF" if auto detection is not required.

	Item	Setting ^{*1}	Details
	Detect Speed	Fast/Standard	 Fast: Clear or reflective media may not be detected. If detection is unsuccessful, select "Standard". Standard: Select "Standard" if the medium is not detected successfully.
LA	NGUAGE	English/ Japanese/ Chinese	Sets the display language.
Ti	me Set	-20 h to <u>0</u> to +4 h	Sets the current time and date. (With respect to JST) • This can be set within the range of -20 to +4 hours.
U	NIT / TEMP	<u>°C</u> /°F	Sets the display unit for temperature (Celsius/Fahrenheit).
1U	NIT / LENGTH	mm/inch	Sets the display units for length and area. • Some items are displayed in "mm" even if "inches" is selected.
Ke	ey Buzzer	ON/OFF	Sets an audible tone when keys are pressed. • Audible signals indicating errors, warnings, and operation end cannot be muted, even if "OFF" is selected for this setting.
Vi	ew Feed	<u>ON</u> /OFF	Sets whether or not to feed the media forward to view the print results—for example, during test printing.
Sp	pace Btwn PP.	None/10 to 500 mm	 The space between prints can be eliminated for continuous printing. Reducing the space length may cause media sagging, resulting in discrepancies in the distance the media is fed. Depending on the data size or number of passes in the feed direction, the space may be wider than the setting.
Sp	pace Feed Mode	Intermittent/ Continuous	Alters the feed method for blank space included in the image data. Intermittent: Uses intermittent feeding based on the timing of a fraction of the pass. Continuous: Feeds forward by skipping blank parts.
Ne	etwork	-	Sets the network address. The machine must be restarted to enable this setting.
	Check IP Address	-	Displays the machine's current IP address. • 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/ <u>OFF</u>	Select "ON" to use the IP address assigned by the DHCP server.
	AutoIP	ON/ <u>OFF</u>	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 machine's IP address. • This can be set when both [DHCP] and [AutoIP] are set to "OFF".
	Default Gateway	-	Sets the machine's default gateway. • This can be set when both [DHCP] and [AutoIP] are set to "OFF".
	DNS Address	-	Sets the machine's DNS server address. • This can be set when both [DHCP] and [AutoIP] are set to "OFF".
	Sub Net Mask	-	Sets the number of subnet mask digits used by this machine. • This can be set when both [DHCP] and [AutoIP] are set to "OFF".

	Item	Setting ^{*1}	Details
Eve	nt Mail	-	An email can be sent to a specified email address when an event (e.g., print start, print end, and abort) occurs. The machine must be restarted to enable this setting. "Event Email Function Settings" (P. 90)
	/lail Delivery	ON/ <u>OFF</u>	Sets whether event emails are sent.
5	Select Event	-	
	Print Start Event	ON/ <u>OFF</u>	Sets whether an email is sent when printing starts.
	Print End Event	ON/ <u>OFF</u>	Sets whether an email is sent when printing ends.
	Plot Start Event	ON/ <u>OFF</u>	Sets whether an email is sent when cutting starts.
	Plot End Event	ON/ <u>OFF</u>	Sets whether an email is sent when cutting ends.
	Error	ON/ <u>OFF</u>	Sets whether an email is sent when an error occurs.
	Warning	ON/ <u>OFF</u>	Sets whether an email is sent when a warning occurs.
	Other Event	ON/ <u>OFF</u>	Set to send or not send an email when an event other than those listed above occurs.
N	//ail Address	-	Sets the email address to which emails will be sent (not to exceed 96 alphanumeric characters or symbols).
N	Message Subject	-	Sets the characters contained in a message subject (not to exceed 8 alphanumeric characters or symbols).
5	Server Setup	-	
	SMTP Address	-	Sets the SMTP server.
	SMTP Port No.	-	Sets the SMTP port number.
	Sender Address	-	Sets the sender address (not to exceed 64 alphanumeric characters or symbols). • Setting an email address corresponding to the server account allows emails to be sent.
	Authentication	OFF/POP before SMTP/ SMTP authentication	Sets the SMTP server authentication method.
	User Name	-	Sets the user name used for authentication (not to exceed 30 alphanumeric characters or symbols). • This can be set when [Authentication] is not set to "OFF".
	Pass Word	-	Sets the password used for authentication (not to exceed 15 alphanumeric characters or symbols). • This can be set when [Authentication] is not set to "OFF".
	POP3 Address	-	Sets the POP server. • This can be set when [Authentication] is set to "POP before SMTP".
	APOP	-	Enables or disables APOP. • This can be set when [Authentication] is set to "POP before SMTP".

Item	Setting ^{*1}	Details
Transmit Test	-	Sends a test email. Transmit Test"(P. 90)
Auto Remote	<u>ON</u> /OFF	Sets whether to automatically switch to REMOTE mode and start printing if data is received locally.
Feeding Before Cut ON/OFF		Sets whether to feed media before cutting the media.
Reset -		Initializes the details set.

^{*1.} The default settings are shown underlined.

Event Email Function Settings

An email can be sent to a specified email address when an event (e.g., print start, print end, and abort) occurs.



· SSL (Secure Socket Layer) encoding is not supported.



Connect the LAN cable to use the event mail function.

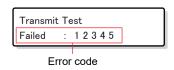
"Using a LAN Cable"(P. 34)

DISCLAIMERS

- Internet communication charges for email notifications, etc. are the responsibility of the customer.
- Event emails may not be delivered if problems arise with the Internet setup or equipment. Mimaki rejects all liability for damages resulting from delivery failure or delay.

Transmit Test

- In LOCAL mode screen, select [MENU] > [Machine Setup], then press the [ENTER] key.
 - · The Machine Setup menu is displayed.
- Select [Event Mail] > [Transmit Test], then press the [ENTER] key.
- 3 Press the [ENTER] key.
 - · The transmission results are displayed.
 - An error code will be displayed if the test email transmission is unsuccessful. Refer to the error code list and take appropriate action.





- Emails may not necessarily be delivered even if they have been sent. Check the terminal receiving the email for spam email filters.
- For more information on server settings or other topics, contact your network administrator or service provider.
- 4 Press the [ENTER] key once the test is complete.

Error Code List

Error code	Likely cause	Corrective action
10	Network connection error	 Check to confirm that this machine is connected to a network. Check the IP address for this machine. Check if the network setup allows this machine to use DNS.
20	No valid email address	Enter a valid email address.
11003 11004	No POP server could be found. or the DNS server could not be accessed.	 Check the POP server address. Check if the network setup allows this machine to use DNS.
11021	Unable to connect to POP server	Check the POP server settings.Check the firewall settings.
12010	An error was returned from the POP server.	Check the POP server settings.
13000	POP authentication failed.	Check the user name and password.Check the APOP settings.Check the authentication method.
10013 10014	No SMTP server could be found. or the DNS server could not be accessed.	 Check the SMTP server address. Check if the network setup allows this machine to use DNS.
10021	Unable to connect to SMTP server	Check the SMTP server settings.Check the SMTP port number.Check the firewall settings.
10*** 11*** 20*** 21***	An error was returned from the SMTP server. or there was no response.	 Check the SMTP server settings. Communication is not possible with a server that requires SSL communication. Check the protocol filter settings.
12***	The sender email address is invalid.	Set an email address corresponding to the server account.
13***	The email recipient could be found or the email address is invalid.	 Check the email address. This error may not always be detected even if the email address is incorrect. Set an email address corresponding to the server account.
22000 22008	SMTP authentication error	Check the authentication method.
23*** 24*** 25***	SMTP authentication failed.	Check the user name and password.

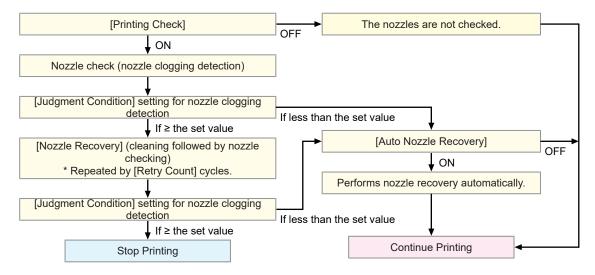
1. *** is the error code received from the mail server



• If the error persists, wait a while before retrying.

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

		Item	Setting ^{*1}	Details
Р	intii	ng Check	ON/ <u>OFF</u>	Performs nozzle clogging detection before printing starts.
	Cł	neck Interval	-	Sets the nozzle clogging detection timing.
		Length	0.1 m to <u>30.0</u> <u>m</u> to 100.0 m	Performs nozzle clogging detection after the length set is reached and before the next print starts.
		File	1 to <u>30</u> to 1,000 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. 84)
1	_	ment ition ^{*2}	OFF / 1 to 10 to 100 nozzles	Set the number of nozzles per row to be detected as clogged before "nozzle clogging" is detected. The next print will not start if "nozzle clogging" is detected during continuous printing.

^{*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.

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.
Version		Displays the machine firmware and other versions.
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.

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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 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
Periodically	Shake the Ink bottle. This Maintenance"(P. 98)
Before starting the week's work	Perform white ink maintenance. The "White Ink Maintenance" (P. 98)
At the end of the work	Clean the wiper and wiper bracket. Twiper Cleaning"(P. 99)
week	Clean the cap rubber. © "Cap Rubber Cleaning"(P. 100)
	Clean the NCU. TNCU Cleaning"(P. 101)
	Clean the underside of the carriage. Tarriage Underside Cleaning (P. 102)
	Clean the underside of the UV-LED lamp. Carriage Underside Cleaning
	Clean the DAS sensor. The "Automatic Correction Sensor (DAS) Cleaning" (P. 103)
	Clean the ink discharge channel. 🕾 "Ink Discharge Channel Cleaning"(P. 104)
	Clean the media sensor. The "Media Sensor Cleaning" (P. 105)
	Clean the media holder. The Media Holder Cleaning (P. 106)
	Clean the platen. Telaten Cleaning"(P. 106)
	Clean the cover (exterior). Tover (Exterior) Cleaning (P. 107)
	Check the waste ink levels in the waste ink tank. Tank"(P. 120)
When not used for more than a week	Clean the wiper and cap and wash the ink discharge channels. After cleaning, store without turning off the main power supply. The when this Printer is Left Unused for a Long Time"(P. 107)

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 lnk bottle periodically to keep printing consistent.

UV ink: once a month.

UV white ink: once a day.

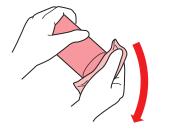


The machine counts the time elapsed after the white ink was stirred. The "Shake White Ink
Bottle" message appears when a preset count is reached. If the message appears, shake the
white ink by following the instructions below:

When the message appears: Every 24 hours (or when the power is turned on if the power was turned off).

Shaking the lnk bottle

- 1 Shake the lnk 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 paper towel.









- 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.

White Ink Maintenance

White ink constituents are more easily sedimented than other ink colors. If ink constituents are sedimented, the ink density may become uneven. Perform maintenance once a week as follows before using the machine.

- **1** Shake the white ink lnk bottle.
 - @ "Ink Maintenance"(P. 98)
- **?** Close the front cover.



- · Be sure to close the front cover. Ink stirring starts.
- ? On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- **▲** Select [White Maintenance], then press the [ENTER] key.
- 5 Remove the media, then press the [ENTER] key.

6 Press the [ENTER] key.

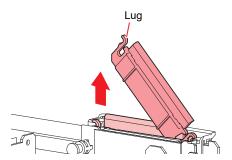
- · Discharging/filling/cleaning starts automatically.
- · The elapsed time is displayed.

Wiper Cleaning

The wiper wipes off ink adhering to the print head nozzle surface. Continuing to use the dirty wiper may cause the wiper to which dried ink and dust are attached to rub against the nozzle surface, leading to printing defects (e.g., nozzle clogging or deflection).

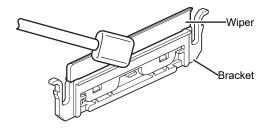


- Be careful to avoid leaving fragments from the cleaning stick behind when cleaning. These fragments will increase the risk of ejection failures (e.g., nozzle clogging or deflection).
- 1 On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- **?** Select [Station] > [Carriage Out] > [Move To Platen Right End], then press the [ENTER] key.
 - · The carriage moves over the platen.
- 3 Open the front cover.
- ▲ Remove the wiper.
 - · Hold the lug at the rear 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.

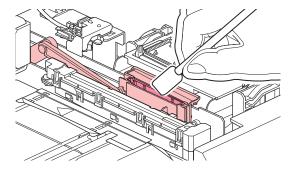




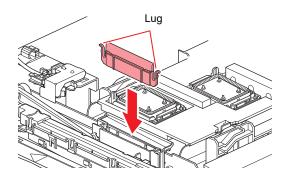
• Replace dirty or warped wipers with new ones. Twiper Replacement (P. 110)

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 the wiper at the original position.





- Do not remove the absorbent material in the absorbent material case. Doing so may result in leaking ink.
- Once cleaning is complete, close the cover, then press the [ENTER] key.

Cap Rubber Cleaning

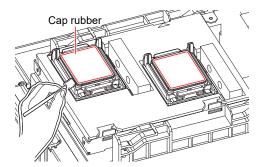
The cap prevents the print head nozzle surface from drying out. Continuing to use a dirty cap may affect ink take-up and lead to print defects (e.g., nozzle clogging, deflection).



- 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], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- 2 Select [Station] > [Carriage Out] > [Move To Platen Right End], then press the [ENTER] key.
 - · The carriage moves over the platen.
- **3** Open the front cover.

▲ Clean the cap rubber.

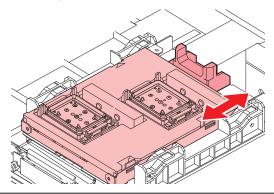
• Wipe off any ink and dust adhering using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.



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

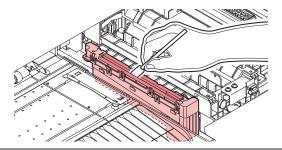
The NCU uses a sensor to monitor the ink droplets ejected from the print head nozzles. Continuing to use the dirty NCU may prevent the nozzle check function from operating correctly.



- 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], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- 2 Select [Station] > [Carriage Out] > [Move To Platen Right End], then press the [ENTER] key.
 - The carriage moves over the platen.
- 3 Open the front cover.

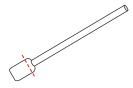
▲ Clean the NCU.

• 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.

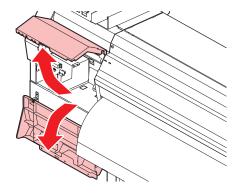
Carriage Underside Cleaning

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.

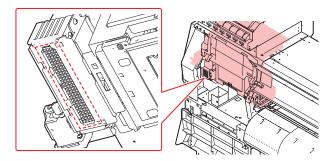


- Be careful to avoid leaving fragments from the cleaning stick behind when cleaning. These fragments will increase the risk of ejection failures (e.g., nozzle clogging or deflection).
- On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- **2** Select [Station] > [Carriage Out] > [Move To Maint. Space], then press the [ENTER] key.
 - The carriage moves to the maintenance space.
- **?** Open the maintenance covers.



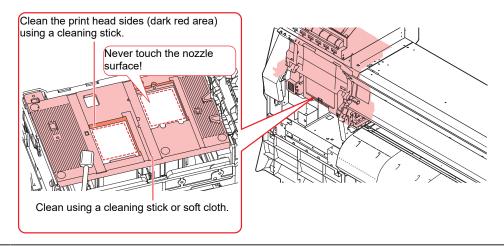
▲ Clean the UV-LED lamp.

• Wipe off any ink adhering 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.





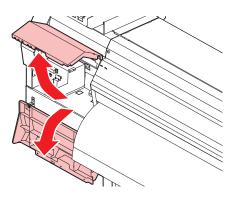
- Never touch the print head nozzle surface.
- 6 Once cleaning is complete, close the cover, then press the [ENTER] key.

Automatic Correction Sensor (DAS) Cleaning

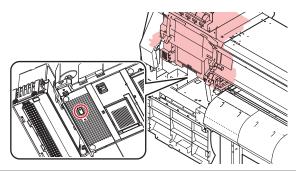
The DAS sensor is located on the carriage underside. If dust or debris accumulates on the sensor, an error may occur in the automatic correction function (Automatic correction of drop position).

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

3 Open the maintenance covers.



- ▲ Clean the DAS sensor.
 - · Wipe clean using cotton swabs or a soft cloth.





- For heavy soiling, wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out.
- 5 Once cleaning is complete, close the cover, then press the [ENTER] key.

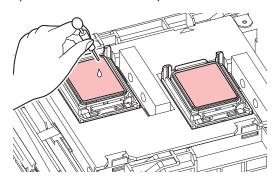
Ink Discharge Channel Cleaning

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], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- **2** Select [Station] > [Disway Wash], then press the [ENTER] key.
 - The carriage moves over the platen.
 - "Fill the Liquid. Exit Next [ENT]" appears on the display.
- **Q** Open the front cover.

⚠ Fill the cap with maintenance liquid.

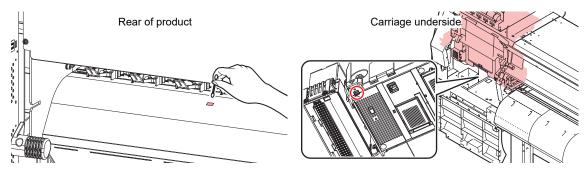
• Use a syringe to draw up some maintenance liquid and fill it until it almost overflows from the cap.



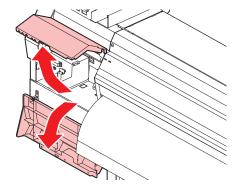
- 5 Close the front cover, then press the [ENTER] key.
 - Pump tube (ink discharge channel below the cap) washing starts.

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
 - - · The Maintenance menu is displayed.
 - **2** Select [Station] > [Carriage Out] > [Move To Maint. Space], then press the [ENTER] key.
 - The carriage moves to the maintenance space.
 - **3** Open the maintenance covers.



Clean the media sensor.

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

Media Holder Cleaning

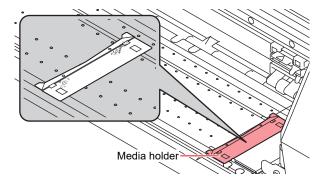


• Turn off the main power supply and unplug the power cable before carrying out maintenance.



• 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.

Platen Cleaning

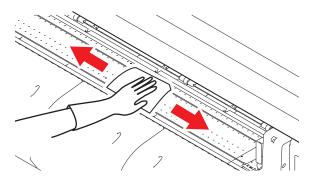


• Turn off the main power supply and unplug the power cable before carrying out maintenance.



• 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.

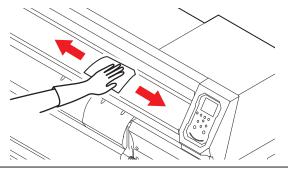


 For heavy soiling, wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out.

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.

When this Printer is Left Unused for a Long Time

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

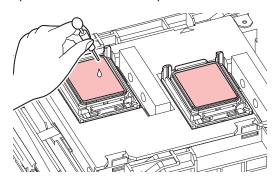
Check beforehand

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.
- ◆ On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - The Maintenance menu is displayed.
- **9** Select [Station Maint.] > [Custody Wash], then press the [ENTER] key.
 - · The carriage moves over the platen.
- 3 Open the front cover.
- ▲ Clean the wiper and bracket.
 - Wiper Cleaning"(P. 99)
- 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.

R Fill the cap with maintenance liquid.

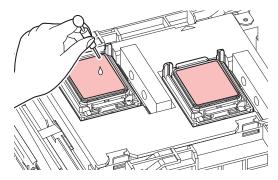
• Use a syringe to draw up some maintenance liquid and fill until it almost overflows from the cap.



- Q Close the front cover, then press the [ENTER] key.
- 1 Set the exposure time, then press the [ENTER] key.
 - Print nozzle washing starts. The elapsed time is displayed on the display.



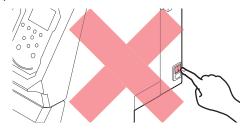
- The leaving time can be set on firmware version 6.3 or later.
- Cleaning is performed automatically once print nozzle washing has ended.
- "Fill the Liquid. Exit Next [ENT]" appears on the display.
- 1 1 Open the front cover.
- 19 Fill the cap with maintenance liquid.
 - Use a syringe to draw up some 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 <u>separate the pinch rollers from the grit rollers</u>.

- 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. 119)

4.3 Consumable Item Replacement

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.

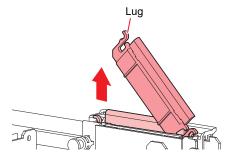


When disposing of consumable items, contact an industrial waste disposal operator or dispose
of the product in accordance with the local laws and regulations.

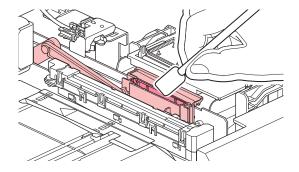
Wiper Replacement

This product 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.

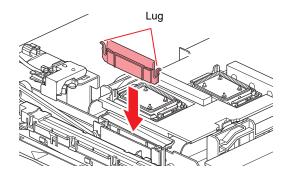
- "Replace Wiper" appears on the display.
- **9** On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- 3 Select [Station Maint.] > [Replace Wiper], then press the [ENTER] key.
 - · The carriage moves over the platen.
- 4 Open the front cover.
- 5 Remove the wiper.
 - Hold the lug at the rear 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.



- Once replacement is complete, close the cover, then press the [ENTER] key.
 - · The wiper usage count is reset.

Cap Replacement

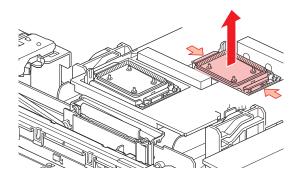
If ejection failures (e.g., nozzle clogging or deflection) remain unresolved even after cleaning, replace with a new cap.



• Be sure to replace the cap if you observe any scratches or other damage on the rim.

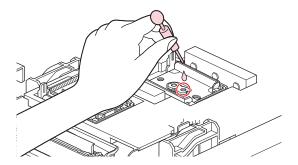


- 1 On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- **9** Select [Station] > [Carriage Out] > [Move To Platen Right End], then press the [ENTER] key.
 - The carriage moves over the platen.
- 3 Open the front cover.
- ▲ Remove the cap.
 - · Squeeze the lugs on either side of the cap and pull off.



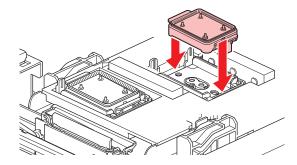
5 Apply maintenance liquid.

• Use a syringe to apply two or three drops of maintenance liquid to the hole at the front.



6 Mount a new cap.

Position with the slot at the front and push in until it clicks.



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

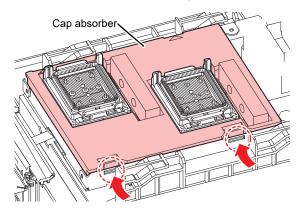
Cap Absorber Replacement

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

- ◆ On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- **9** Select [Station] > [Carriage Out] > [Move To Platen Right End], then press the [ENTER] key.
 - · The carriage moves over the platen.
- **3** Turn off the main power supply.
- ▲ Open the front cover.

5 Remove the cap absorber.

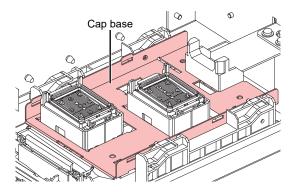
• Push up the two tabs at the front to remove the cap absorber.





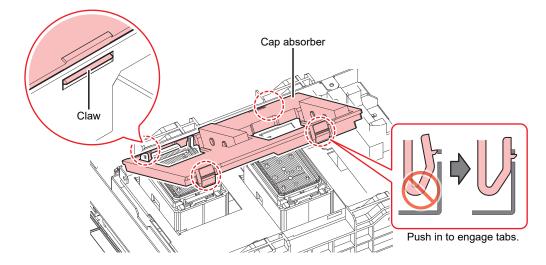
· Avoid ink dripping when removing the cap absorber.

6 Clean the carriage 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.

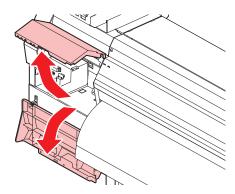


- Once replacement is complete, move the wiper back to the rear by hand.
- Q Close the front cover, then turn on the power.
 - Check to confirm that the carriage returns to the station.

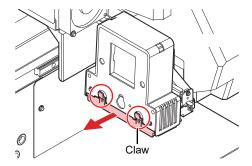
LED Glass Replacement

Replace with new LED glass if the ink hardens and the existing LED glass becomes dirty.

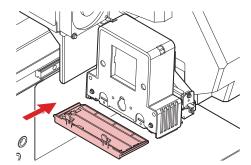
- 1 On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- **9** Select [Station] > [Carriage Out] > [Move To Maint. Space], then press the [ENTER] key.
 - · The carriage moves to the maintenance space.
- 3 Open the maintenance covers.



- A Remove the LED glass.
 - Unclip the tabs and slide the LED glass in the direction of the arrow to remove.
 - Be careful not to apply too much force when unclipping the tabs. Disregarding this precaution may result in breakage of the tabs.



- 5 Install a new LED glass.
 - Insert until it clicks into place. Confirm that the tabs are engaged.



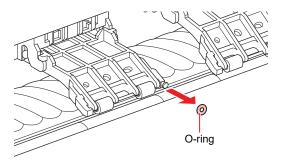
6 Once replacement is complete, close the cover, then press the [ENTER] key.

Pinch Roller Replacement

Replace worn or dirty pinch rollers with new ones.

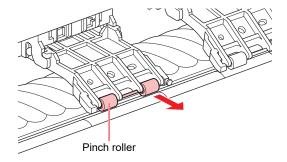


- Turn off the main power and unplug the power cable before replacement.
- 1 Open the front cover.
- **?** Raise the clamp lever.
- 3 Remove the O-ring retaining the pinch rollers.





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



- 5 Mount new pinch rollers, and secure them using the O-ring.
- 6 Close the front cover.

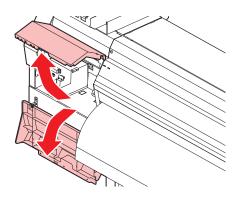
Media Holder Replacement

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

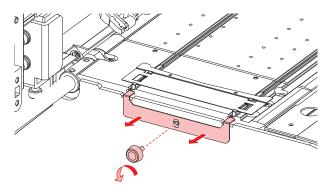


• Turn off the main power and unplug the power cable before replacement.

1 Open the maintenance covers.

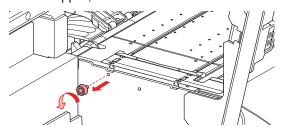


2 Remove the side screw, and detach the media holder stopper.

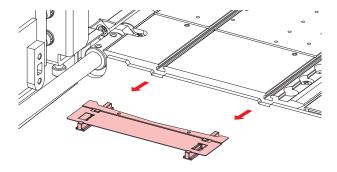




• If there is no media stopper, remove the screw shown in the figure.

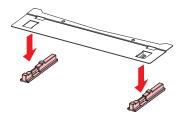


3 Remove the media holder.

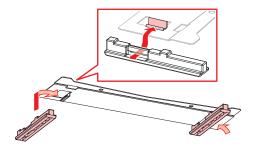


4 Remove the sliders from the media holder.

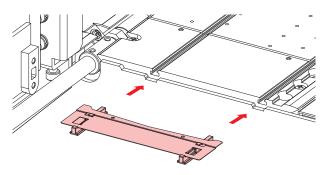
· Be careful to avoid misplacing the sliders.



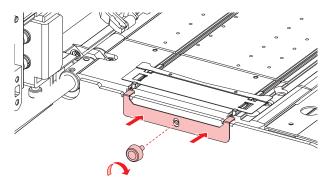
- 5 Mount the sliders on to the new media holder.
 - Engage the holes in the sliders on to the lugs on the media holder.



6 Mount the new media holder on to the platen.

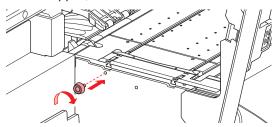


7 Secure the media holder stopper with the screw.





• If there is no media stopper, secure the screw in the screw hole shown in the figure.



8 Close the maintenance covers.

Media Cutter Replacement

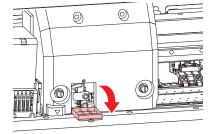
Replace cutters when blades are chipped or blunt.



- Avoid touching the cutter blade. Failure to do so may result in injury.
- 1 On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - The Maintenance menu is displayed.
- **9** Select [Station] > [Carriage Out] > [Move To Platen Right End], then press the [ENTER] key.
 - · The carriage moves over the platen.
- 3 Open the front cover.

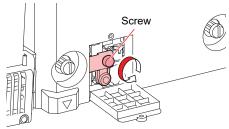


- The carriage can be moved by hand. Move the carriage slowly to a position allowing easy
 access while replacing.
- 4 Loosen the screws and open the carriage cover window.

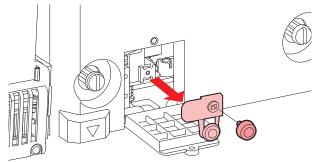


5 Replace the media cutter.

(1) Unscrew the cutter screw.



(2) Remove the cutter.



- (3) Mount a new cutter.
- (4) Tighten the screw to clamp the cutter.
- 6 Close the carriage cover window and retighten the screws.
- 7 Once replacement is complete, close the cover, then press the [ENTER] key.

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.



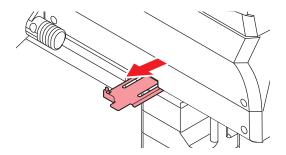


When "Check Waste Ink Tank" message appears

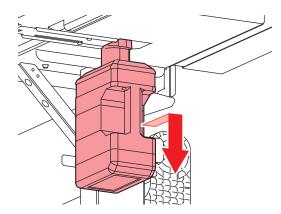
- 1 The "Check Waste Ink Tank" message appears on the display.
- Check the waste ink levels in the waste ink tank.
 - If you note any discrepancies from actual levels, proceed to the next step.
 - If there is no discrepancy, replace (dispose of) the waste ink tank referring to Replacing the Waste Ink Tank"(P. 120).
- **?** On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- ▲ Select [Waste Ink Tank], then press the [ENTER] key.
 - "Replace Wasteinktank Level: 80 % (1.6 L)" appears on the display.
- 5 Select [Adjust Waste Ink Volume], then press the [ENTER] key.
- **6** Press **● v** to adjust the level.
- 7 Press the [ENTER] key once adjustment is complete.

Replacing the Waste Ink Tank

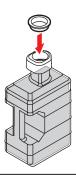
- 1 On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - · The Maintenance menu is displayed.
- **2** Select [Waste Ink Tank], then press the [ENTER] key.
 - "Replace Wasteinktank Level: 80 % (1.6 L)" appears on the display.
- **3** Select [Reset Waste Ink Volume], then press the [ENTER] key.
- ▲ Pull the waste ink tank stopper forward.



Hold the handle on the waste ink tank and slide out.

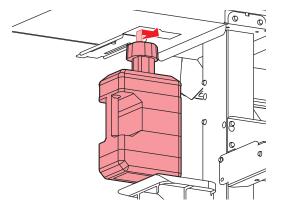


Attach the cap to the removed waste ink tank, and use tape to prevent leakage of waste ink.

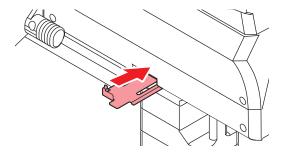




- When disposing of ink, maintenance liquid or other liquid used with the product, or the container or paper towel to which ink or other liquid is attached, contact an industrial waste disposal operator or dispose of the product in accordance with the local laws and regulations.
- 7 Mount a new waste ink tank.



Q Close the waste ink tank stopper.



9 Press the [ENTER] key.

• The waste ink level will be reset.

Chapter 5 Troubleshooting



This chapter

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

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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?	Insert the power plug securely into the power outlet. Tonnecting the Power Cable"(P. 31)
Are you using the power cable provided?	Use the power cable provided.
Is the main power supply turned on?	Turn on the main power. 🎏 "Turning On the Power"(P. 31)
Is the [END/POWER] key on the operating panel turned on?	Turn the power on. Turning On the Power"(P. 31)

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. The "Using a USB Cable" (P. 34)
Is a LAN cable connected?	Connect the cable securely to the LAN port. Tusing a LAN Cable (P. 34)
Are you using a LAN cable approved by Mimaki?	Check the LAN cable type. Tusing a LAN Cable (P. 34)
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. 27)

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. 55)

Points to check	Corrective action
Does the media have ripples/surface irregularities or lift up?	If you are using roll media, use a smooth section of the media for initial feeding. You can also improve this problem by attaching the NITOFLON® tape provided on the platen. Attach the tape, taking care not to block the vacuum hole.
	For more information, refer to the description on transporting media on the platen. https://mimaki.com/download/inkjet.html

Image defects occur.

Symptom	Corrective action	
White streaks, blurriness, and dark streaks occur. (Carriage scan direction)	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. 106)	
,	2. Perform the procedure described in Thead Cleaning"(P. 64).	
	3. Perform the procedure described in Feed Correction"(P. 65).	
	4. Perform the procedure described in "Wiper Cleaning" (P. 99).	
	5. Perform the procedure described in Tap Rubber Cleaning"(P. 100).	
	 Perform the procedure described in "Carriage Underside Cleaning" (P. 102). 	
Text is double- or triple-printed in the media feed direction.	1. Perform the procedure described in Feed Correction"(P. 65).	
Offsetting occurs during bidirectional printing.	 Perform the procedure described in "Correcting the Drop Position" (P. 67). 	
Ink droplets drip during printing.	1. Perform the procedure described in Tilder "Wiper Cleaning" (P. 99).	
	2. Perform the procedure described in Tap Rubber Cleaning"(P. 100).	
	 Perform the procedure described in "Carriage Underside Cleaning" (P. 102). 	
	4. Perform the procedure described in Thead Cleaning"(P. 64).	
	5. Set auto maintenance. The "Maintenance Menu" (P. 83)	
Clear clogged nozzles.	1. Perform the procedure described in 💝 "Head Cleaning"(P. 64).	
	 Perform the procedure described in "Print Head Nozzle Washing" (P. 126). 	
	3. Perform the procedure described in "Wiper Replacement"(P. 110).	
	 Perform the procedure described in "Registering Nozzle Recovery" (P. 84). 	

Symptom	Corrective action
Vertically uneven color	You can improve this problem by attaching the NITOFLON® tape provided on the platen. Attach the tape, taking care not to block the vacuum hole. For more information, refer to the description on transporting media on the platen. https://mimaki.com/download/inkjet.html
The white image is offset in the media feed direction.	1. Perform the procedure described in 💝 "Feed Correction"(P. 65).

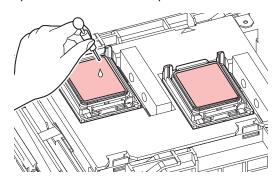
Print Head Nozzle Washing

If ejection failures (e.g., nozzle clogging or deflection) remain unresolved even after head cleaning ((Figure 1)) apply nozzle wash to the print head.

- - · The Maintenance menu is displayed.
- **9** Select [Station Maint.] > [Nozzle Wash], then press the [ENTER] key.
 - · The carriage moves over the platen.
- **3** Open the front cover.
- **⚠** Clean the wiper and bracket.
 - Wiper Cleaning"(P. 99)
- 5 Press the [ENTER] key once cleaning is complete.
 - "Cap Cleaning Completed (Next) [ENT]" appears on the display.
- 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.



- **Q** Close the front cover, then press the [ENTER] key.
- 1 Set the exposure time, then press the [ENTER] key.
 - Print nozzle washing starts. The elapsed time is displayed on the display.



- The leaving time can be set on firmware version 6.3 or later.
- 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.

The ink has leaked out

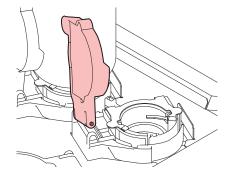


• If an ink leak occurs, turn off the main power immediately and unplug the power cable. Then, contact your local dealer or our service office.

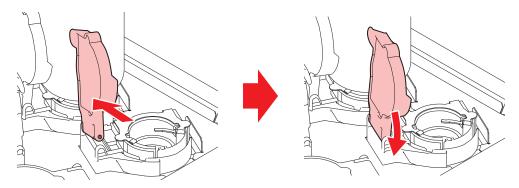
The light-blocking cover comes off.

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:

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.



5.2 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. Tipisplaying Machine Information (Local Guidance)"(P. 30)

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
MOTOR POWER OFF	The motor stops due to some action causing initialization—for example, opening the cover.	Wait until the initialization operation is complete.
Replace NCU Ink Pad	The ink absorber needs to be replaced.	 The NCU ink absorber must be replaced. Contact your local distributor, our sales office, or service center.
REPLACE NCU	A problem was detected with the nozzle clogging assessment.	The NCU must be replaced. Contact your local distributor, our sales office, or service center.
NCU Sensor Lv Low	The sensor's sensitivity is impaired.	Clean the NCU. "NCU Cleaning"(P. 101)
NCU Sens Adj Err H	Sensor sensitivity	 Replace the NCU if the error does not clear. Contact your local distributor, our
NCU Sens Adj Err L	adjustment failed.	sales office, or service center.
NCU Connect	A problem was detected with the NCU connection.	Turn off the power on the machine and turn it on after a while.
Ink IC is not registered	 The ink IC chip is not registered. The registered remaining ink level indicates the ink has run out. 	Replace with new ink. "When Ink End is Displayed"(P. 39)
Ink End M	The ink has run out.	Replace with new ink. "When Ink End is Displayed"(P. 39)
Ink Near End M	Ink levels are low.	The ink will run out soon. Have new ink ready.
Ink Error	An ink error occurred.	Check the ink error details. "Ink error"(P. 131)
COVER OPEN	The cover is open.	Close the cover.
Lower the clamp lever	The clamp lever is raised.	• Lower the clamp lever. 💝 "Front"(P. 22)
Data Remain	Print (RIP) data was received.	Switch to REMOTE mode and start printing or clear the data and abort printing.
Temporary Suspension	Printing has been paused.	Switch to REMOTE mode and resume printing or clear the data and abort printing.

Message	Cause	Corrective action
Printing not possible/ink IC	An unusable ink IC chip is used.	Replace with new ink and a new ink IC chip.
Shake the white ink bottle	White ink is more easily sedimented than other ink colors. The message is displayed every 24 hours.	Remove and shake the lnk bottle. "Ink Maintenance"(P. 98)
NO MEDIA	No media is loaded, or the sensors are faulty.	 Load the media. The Loading the Media" (P. 55) Clean the media sensor. The Media Sensor Cleaning (P. 105)
Please load media.	No media is loaded, or the sensors are faulty.	Load the media. "Loading the Media"(P. 55)
No media detected	The media width has not been detected.	Detect the media width. The Media"(P. 55)
Replace Wiper	The wiping count exceeded the preset value.	Replace the wiper, then reset the count. "Wiper Replacement"(P. 110)
Wiper Move Failure	The wiper is not operating correctly.	 Clean the wiper and around the wiper. Wiper Cleaning"(P. 99) Turn off the power on the machine and turn it on after a while.
Replace Waste ink tank	The waste ink tank count exceeded the preset value (90%).	Automatic maintenance is not possible while the covers are open. Perform the following steps: 1. Check the waste ink levels in the waste ink tank. "When "Check Waste Ink Tank" message appears"(P. 120) 2. Replace the waste ink tank, then reset the waste ink level. "Replacing the Waste Ink Tank"(P. 120)
Check Waste Ink Tank	The waste ink tank count exceeded the preset value (80%).	 Check the waste ink levels in the waste ink tank. "When "Check Waste Ink Tank" message appears" (P. 120) Replace the waste ink tank, then reset the waste ink level. "Replacing the Waste Ink Tank" (P. 120)
High ambient temp. ** ° C	Ambient temperatures are too high.	Adjust ambient temperatures to temperatures within the specified range.
Low ambient temp. ** ° C	Ambient temperatures are too low.	Optimum print quality may not be possible unless ambient conditions are within the specified range. © "Installation Precautions"(P. 15)
Auto-correction failed	 White media is not used. The media is dirty. The media lifts up. There is dirt around the sensor. 	 Load white and clean media. Load media so it does not lift up. Clean the area around the sensor. "Automatic Correction Sensor (DAS) Cleaning"(P. 103) If automatic correction fails repeatedly, correct the position manually. [MENU] > [Setup] > [Feed Comp.] or [Drop.PosCorrect]

Message	Cause	Corrective action
** days since last maintenance	Maintenance has not been done for a certain period of time.	Carry out maintenance. "" "Maintenance Items and Timing"(P. 97) The message disappears after executing [Station Maint.] > [Carriage Out].

Ink error

Message	Cause	Corrective action
Ink End	The ink has run out.	Replace with new ink. "When Ink End is Displayed"(P. 39)
Ink Near End	Ink levels are low.	The ink will run out soon. Have new ink ready. "When Ink Near End is Displayed"(P. 39) The ink will run out soon. Have new ink ready. "When Ink Near End is Displayed" The ink will run out soon. Have new ink ready. "When Ink Near End is Displayed" The ink will run out soon. Have new ink ready. "When Ink Near End is Displayed" The ink will run out soon. Have new ink ready. "When Ink Near End is Displayed" The ink will run out soon. Have new ink ready. "When Ink Near End is Displayed" The ink will run out soon. Have new ink ready. "When Ink Near End is Displayed" The ink will run out soon. Have new ink ready. "When Ink Near End is Displayed" The ink will run out soon. Have new ink ready. "When Ink Near End is Displayed" The ink will run out soon. "The ink Near End is D
Wrong Ink IC	An error occurred with the information on the ink IC chip.	1. Check to confirm the ink IC chip was inserted correctly. Registering the Ink IC Chip"(P. 45)
	·	Turn off the power on the machine and turn it on after a while.
		3. Replace with new ink. The "Replacing Ink" (P. 40)
Ink Color	 The ink color registered on the IC chip is different from the ink color filled. 	Insert an ink IC chip for the correct ink color. "Registering the Ink IC Chip"(P. 45)
Ink Type	The ink type registered on the IC chip is different from the ink type filled.	Insert an ink IC chip for the correct ink type. "Registering the Ink IC Chip"(P. 45)
Expiration	The ink has expired.	Replace with new ink or use up as
Expiration:1MONTH	The ink is one month past its expiration date and cannot be used.	quickly as possible. Printing is possible. "Replacing Ink"(P. 40)
Expiration:2MONTH	The ink is two months past its expiration date and cannot be used.	Replace with new ink. Printing is not possible. "Replacing Ink"(P. 40)

Messages displayed on the ink IC chip registration screen

Message	Cause	Corrective action
Color: Magenta Expiration: 2021/01/01 Caution: XX days until expiration	The ink expiration date is approaching.	Use the ink before the expiration period.
Registered IC chip	The ink IC chip inserted is already registered.	Replace with a new ink IC chip. "Registering the Ink IC Chip"(P. 45)
Unable to register. The registration limit was exceeded.	More than one was registered for each slot.	Use up the equivalent of one bottle before registering.

Chapter 5 Troubleshooting

Message	Cause	Corrective action
Unable to register. XXXXXXX (Error name)	The ink IC chip could not be registered due to an error.	Insert the correct ink IC chip. "Registering the Ink IC Chip"(P. 45)
Expiration Over	The ink is two months past its expiration date and cannot be used.	Replace with new ink. Printing is not possible. "When Ink End is Displayed"(P. 39)
Ink Type	A different ink type is registered on the ink IC chip.	Insert an ink IC chip for the correct ink type. "Registering the Ink IC Chip"(P. 45)
Ink Color	A different ink color is registered on the ink IC chip.	Insert an ink IC chip for the correct ink color. "Registering the Ink IC Chip"(P. 45)
Wrong Ink IC	An error occurred with the information on the ink IC chip.	1. Check to confirm the ink IC chip was inserted correctly. Registering the Ink IC Chip"(P. 45)
	'	Turn off the main power and wait a while before turning back on.
		3. Replace with new ink. The "When Ink End is Displayed" (P. 39)
Replace Ink	The ink IC chip was registered when an ink end or ink near-end error occurred.	Mount new ink and register the ink IC chip.

Error Message

Error number	Message	Cause	Corrective action
04	PARAM ROM	 A problem was detected with the main PCB. 	Turn off the power on the machine and turn it on after a while.
108	HD THERMIS [1234]	A problem was detected with print head temperature control.	Turn off the power on the machine and turn it on after a while.
108	HD CONNECT [1234]	 A problem was detected with the print head connection. 	
122	CHECK:SDRAM	A problem was detected with the SDRAM.	Turn off the power on the machine and turn it on after a while.
128	HDC FIFO OVER	A problem was detected with the print head control PCB.	
128	HDC FIFO UNDER		
129	Battery Exchange	 The internal clock battery is spent and must be replaced. 	Contact your local distributor, our sales office, or service center.
12a	HDC SPEED	A problem was detected	Turn off the power on the machine
130	HD DATA SEQ	with the print head control.	and turn it on after a while.
148	E-LOG SEQ	A log control abnormality was detected.	Turn off the power on the machine and turn it on after a while.

Error number	Message	Cause	Corrective action
151	Main PCB V1R2	A problem was detected	Turn off the power on the machine
152	Main PCB V2R5	with the main PCB power supply circuit.	and turn it on after a while.
153	Main PCB V3R3	cappiy circuit.	
154	Main PCB V05		
157	Main PCB VTT		
158	Main PCB V36-2		
15f	HEAD DRIVE HOT	The COM drive has overheated.	Turn off the power on the machine and turn it on after a while.
16e	Main PCB V3R3B	A problem was detected with the main PCB power supply circuit.	
171	NEW HEAD CONNECT	A new print head connection was detected.	
18a	Main PCB V_CORE	A problem was detected	Turn off the power on the machine
18b	Main PCB V1R5B	with the main PCB power supply.	and turn it on after a while.
18c	Main PCB V12		
18e	FLS NOT COMP	A problem was detected	Turn off the power on the machine
18f	OFSET START	with the print head control.	and turn it on after a while.
18f	OFSET END		
19f	LED CONNECT	The UV- LED PCB could not be detected.	Turn off the power on the machine and turn it on after a while.
1d9	Main PCB V48-1	 A problem was detected with the main PCB power supply. 	
1e6	PRAM Size Shortage	Insufficient memory	
201	Command Error	Data other than print (RIP) data was received, or a problem was detected with the print (RIP) data received.	 Clear the data and resend. Check the USB cable connection. "Using a USB Cable"(P. 34) Use a compliant USB cable. "USB Connection Precautions"(P. 34)
202	Parameter Error	 A problem was detected with the print (RIP) data received. 	Turn off the power on the machine and turn it on after a while.
206	Printing Mode	Print (RIP) data was received with print parameters that do not allow printing.	Change the output parameters and profile using RIP software.
20A	Driver Version	Printing is not possible because the Mimaki driver version is old.	Install the latest Mimaki driver available from: https://mimaki.com/download/ inkjet.html
304	USB INIT ERR	A problem was detected	1. Check the USB cable connection.
305	USB TIME OUT	with the USB cable connection.	"Using a USB Cable"(P. 34) 2. Use a compliant USB cable. ""USB Connection Precautions"(P. 34)

Error number	Message	Cause	Corrective action
			Turn off the power on the machine and turn it on after a while.
307	MCFD File IF Error	A problem was detected while accessing print parameter data.	Turn off the power on the machine and turn it on after a while.
401	Motor X	The X motor was overloaded.	 Check to confirm the media is loaded correctly. The Loading the Media" (P. 55)
402	Motor Y	The Y motor was overloaded.	Open the front cover and check for anything that may obstruct carriage
403	X Current	An overcurrent error was detected in the X motor.	movement.3. Turn off the power on the machine and turn it on after a while.
404	Y Current	An overcurrent error was detected in the Y motor.	turn it on alter a wrille.
406	Wiper Move Failure	Wiper-origin could not be detected.	Clean the wiper and around the wiper. "Wiper Cleaning"(P. 99) "Wiper Cleaning"
			Turn off the power on the machine and turn it on after a while.
44e	UV Unit Fan Error	 A problem was detected with the UV-LED unit fan. 	 Turn off the power on the machine and turn it on after a while.
44f	Take-up Roll Sns Err	 A problem was detected with the take-up unit sensor spindle. 	 Check to confirm the [Machine Setup] > [Feeding/Take-up] > [Take-up Unit] setting is "ON".
		·	 Check to confirm the media is loaded correctly. The Loading the Roll Media" (P. 58)
			 Check to confirm the take-up unit switch functions properly. "Take-up unit"(P. 56)
48a	Detect winding failure	The take-up unit is unable to take up media.	 Check to confirm the media is loaded correctly. The "Loading the Roll Media" (P. 58)
504	CLAMP UP	The clamp lever is lifted.	Lower the clamp lever.
505	Media Jam	The media jam sensor was triggered.	1. Remove the media in contact with the carriage and reload with fresh media. "" "Loading the Media"(P. 55) "" "Loading the Media"(P. 55)"
			Open the front cover and check for anything that may obstruct carriage movement.
509	HDC POSCNT	A problem was detected with position control.	Turn off the power on the machine and turn it on after a while.
50a	Y Org Detect Error	A problem was detected with Y origin detection (initialization).	
50c	Check Media With Sensor	A problem was detected with media width	1. Check the media loading position. "Loading the Media"(P. 55)
		detection.	2. Clean the media width sensor. (287 "Media Sensor Cleaning"(P. 105)
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.

Error number	Message	Cause	Corrective action
516	Media Set Position R	The media was loaded outside the range of valid positions.	 Check the media loading position. "Loading the Media"(P. 55) Clean the media width sensor. "Media Sensor Cleaning"(P. 105)
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.
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.
527	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	Pump Motor Sensor	 A problem was detected with the pump motor. 	Turn off the power on the machine and turn it on after a while.
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.
602	Ink End	The ink has run out.	Replace with new ink. "Replacing Ink"(P. 40)
608	Wrong Ink IC	An error occurred with the information on the ink IC chip.	Check to confirm the ink IC chip was inserted correctly. "Registering the Ink IC Chip"(P. 45)
		·	Turn off the power on the machine and turn it on after a while.
			3. Replace with new ink. Replacing Ink"(P. 40)
64C	NCU Error	 The function is disabled due to an error. 	Turn off the power on the machine and turn it on after a while.
650	NCU Connect	A problem was detected with the NCU connection.	
651	Replace NCU	A problem was detected with the nozzle clogging assessment.	The NCU must be replaced. Contact your local distributor, our sales office, or service center.
652	NCU Nzk Chk (Hw)	A problem was detected	Clean the NCU.
653	NCU Nzk Chk (Mark)	with the nozzle clogging assessment.	Cleaning"(P. 101)
654	NCU Center Pos	Printing position	
655	NCU Flush Pos	adjustment failed.	
656	NCU SN Adjst	 Sensor sensitivity adjustment failed. 	
657	Replace NCU Ink Pad	The NCU ink absorber is full.	The NCU ink absorber must be replaced. Contact your local distributor, our sales office, or service center.

Error number	Message	Cause	Corrective action
658	NCU Sensor Lv Low	The sensor's sensitivity is impaired.	 Clean the NCU. "NCU Cleaning"(P. 101) Replace the NCU if the error does not clear. Contact your local
65b	NCU Sens Adj Err H	Sensor sensitivity	
65c	NCU Sens Adj Err L	adjustment failed.	distributor, our sales office, or service center.
715	InkHeater Thr	A problem was detected	Turn off the power on the machine
716	InkHeater Tmp	with the ink heater thermistor.	and turn it on after a while.
717	InkHeater Brk		
71a	UV-DRV Fuse	A UV-DRV PCB fuse blew.	
901	Operation Error	The function is disabled due to an error.	Check the error details.
902	Data Remain	 Print (RIP) data was received. 	 Switch to REMOTE mode and start printing or clear the data and abort printing.
90d	No Head Select	A problem was detected with the print head.	Turn off the power on the machine and turn it on after a while.
90f	Print Area Short	The media is too small for the print.	 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.
b0f	DIO PCB Uvpow	 A problem was detected with the UV-DRV PCB power supply voltage. 	Turn off the power on the machine and turn it on after a while.
b1b	BaseIO PCB Vpow-s	A problem was detected	Turn off the power on the machine
b1c	BaselO PCB V24	with the Base IO PCB power supply.	and turn it on after a while.
b1d	BaselO PCB V24-A	рошог одрргу.	
b21	SLIDER1 PCB V3R3	A problem was detected	Turn off the power on the machine
b22	SLIDER1 PCB V2R5	with the slider PCB power supply.	and turn it on after a while.
b23	SLIDER1 PCB V1R8		
b24	SLIDER1 PCB V1R2		
d09	HD MEMORY [1234]	A problem was detected with head internal memory.	Turn off the power on the machine and turn it on after a while.

SYSTEM HALT

Error number	Message	Corrective action
406	WIPER ORG	1. Clean the wiper and around the wiper. Twiper Cleaning"(P. 99)
		2. Turn off the power on the machine and turn it on after a while.



• If any other SYSTEM HALT number is displayed, Turn off the power on the machine and turn it on after a while.

Chapter 6 Appendix



This chapter

This chapter describes the machine specifications.

6.1 Specifications

	Item	Details
Print head	Туре	On-demand piezo head
	Specifications	Two staggered heads with 420 nozzles × 4 rows each
	Resolution	Y: 360 dpi, 720 dpi, 1,200 dpi X: 900 dpi, 1,200 dpi
Ink set	4-color	C, M, Y, K
	4-color, W	C, M, Y, K, W
	4-color, W, CL	C, M, Y, K, W, CL
Media	Туре	Label paper (paper base), PVC sheet (not more than 0.25 mm in thickness, including laminating layer), fluorescent sheet, reflective sheet (excluding high-luminosity reflective sheet)
	Maximum printing width *1	1,610 mm
	Maximum width	1,620 mm
	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	Left/right	15.0 mm (default), minimum: Left/right 5 mm
margins	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
Perpendicul	arity	±0.5 mm/1,000 mm
Media skew		Not more than 5 mm/10 m
Printing gap		Manual, two settings (2.0, 2.5 mm)
Media cutting		Cutting precision (steps): Not more than 0.5 mm
Origin alignment		LED pointer
Ink supply		Ink bottle
Maintenanc	e liquid feed	N/A
Waste Ink Tank		Bottle type (2,000ml)
Take-up uni	t	Selectable inside/outside winding

	Item	Details
Media heate	er	N/A
NCU (Nozzle clogging detection)		Provided
UV unit		Air-cooled LED UV emitters x2
Interface	Data transfer function	USB 2.0 Hi-speed, Ethernet 1000BASE-T
	Email function	Ethernet 10BASE-T/100BASE-TX/1000BASE-T
Commands		MRL-V
Languages		English, Japanese, Chinese
Noise	During standby	Not more than 58dB (FAST-A, 1 m on all sides)
levels	Continuous operation	Not more than 65dB
	Non-continuous operation	Not more than 75dB
Compliance	with standards	VCCI Class A, FCC Class A, IEC 62368-1 ETL compliance, CE marking (EMC Directive, Low Voltage Directive, Machinery Directive, RoHS Directive), CB certified, REACH, EnergyStar, EAC marking, RCM marking
Power supp	ly specifications ^{*6}	Single-phase 100 to 120 V AC ±10 %/12 A, single-phase 200 to 240 V AC ±10 %/8 A, 50/60 Hz ±1 Hz
Power	Maximum ^{*7}	500W or less
consumpti on	Minimum ^{*8}	4.5 W or less
Installation environme nt*9	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
	Temperature gradient	Not more than ±10 °C/h
	Dust	0.15 mg/m ³ (typical office)
	Maximum operating altitude	2,000 m (6561.7 ft)
External	Width	2,775 mm (2,912 mm)
dimension s*10	Depth	700 mm (750 mm)
S	Height ^{*11}	1,475 mm (1,041 mm)

Item	Details
Weight*10	167kg (214kg)

- *1. Setup menu margins set to the minimum (5 mm) on either side
- *2. External diameter and weight after winding media
- *3. Free of sagging due to weight
- *4. 3 inch only for high-speed printing
- *5. Excluding media size variation and fluctuations at initial loading
- *6. Excluding options
- *7. Varies depending on print mode
- *8. In sleep
- *9. Ink printing consistency will decrease in conditions outside this range.
- *10. The figures in parentheses indicate package dimensions.
- *11. Excluding ink bottle

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MEMO

Operation manual

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MIMAKI ENGINEERING CO.,LTD. 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN



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