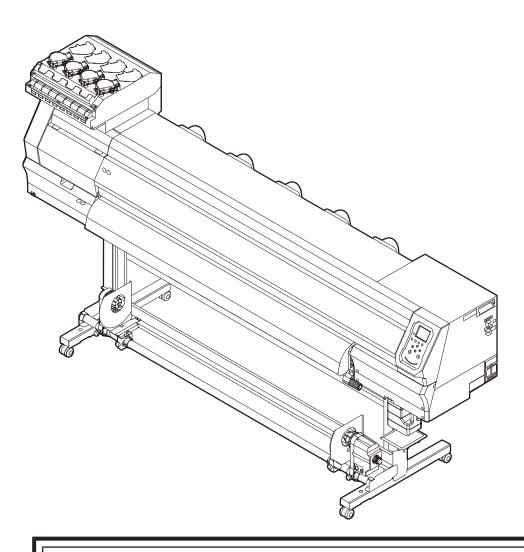


INKJET PRINTER **TS100-1600**

Operation Manual



4)

You can also download the latest manual from official website.

MIMAKI ENGINEERING CO., LTD.

https://mimaki.com/

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Introduction

Thank you for purchasing the Inkjet printer TS100-1600.

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 TS100-1600 ("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.
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• 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	Indicates a potential hazard that may result in death or serious injury if handled improperly or if instructions are disregarded.	
	Caution	Indicates a potential hazard that may result in minor or moderate injury if handled improperly or if instructions are disregarded.	
NOTICE	Notice	Indicates a potential hazard that may result in property damage if handled improperly or if instructions are disregarded.	
	Warning sign	Indicates something that requires attention. Warning specifics are drawn inside the symbol.	
0	Mandatory action sign	Indicates an action that must be carried out. The specifics of the mandatory action are drawn inside the symbol.	
\bigcirc	Prohibition sign	Indicates a prohibited action. The specifics of the prohibited action are drawn inside the symbol.	
(Important!)	Important	Indicates important information related to use of this machine.	
	Tip	Indicates useful reference information.	
	Reference information	Indicates the corresponding page for related information.	

Usage Precautions

• In the event of abnormal conditions

 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.



- 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

- 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.

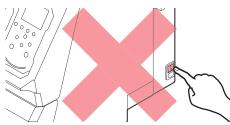


• Plug the power cable plug into a grounded power outlet. Otherwise there is a risk of failure, electric shock, or fire.

• 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



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



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

• 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

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

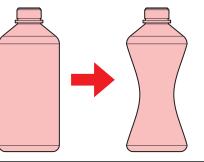
Precautions regarding ink, maintenance liquid, or other liquids used with this machine are included with the containers. Thoroughly read them and make sure you understand the contents.

	Be sure to read the safety data sheet (SDS) before use. https://mimaki.com/supply/sds/
	• 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.
\bigcirc	• Do not subject cases containing ink to strong shock or violent shaking. Do not attempt to refill the ink. Leaking ink may adhere to the skin or get into your eyes or mouth.
	• Do not disassemble cases containing ink. Leaking ink may adhere to the skin or get into your eyes or mouth.
	 Do not store ink, maintenance liquid, or other liquids used with the machine in locations where children may enter.
0	• 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
\bigcirc	 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.

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

• 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

lte	em	Details
Туре		Sublimation transfer ink (MIMAKI product)
Color		Blue (BL) Magenta (M) Yellow (Y) Black (K)
Form		Bottle
Ink capacity		1,000 ml
Expiration date		As indicated on the ink bottle However, within one month after opening, even before the expiration date
Storage temperature	When stored	10 to 35 °C (daily mean temperature)Ink quality may deteriorate if stored outside these conditions.
	During transportation	0 to 40 °C • Ink quality may deteriorate if stored outside these conditions.

Restrictions Concerning the Expiration Date of Ink Used in the Machine

Example: When the expiration date is April 20xx

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

	The message appears on the display.
(Important!)	• The ink expiration date is indicated on the ink 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

• 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.



- 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

 \bigcirc

- 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.

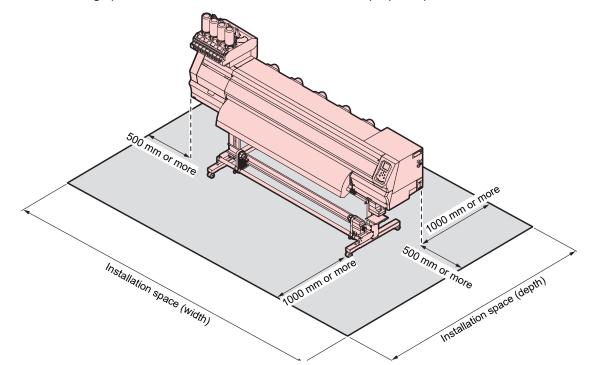


• Operating environment: 20 to 30 °C (68 to 86 °F), 35 to 65 %RH (no condensation)

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	TS100-1600
Width ^{*1}	At least 3,775 mm (2,775 mm)
Depth ^{*1}	At least 2,700 mm (700 mm)
Height ^{* 1,*2}	(1,475 mm)
Weight	168 kg

*1. The figures in parentheses indicate machine dimensions.

*2. Excluding the Ink bottle height

When Relocating This Machine

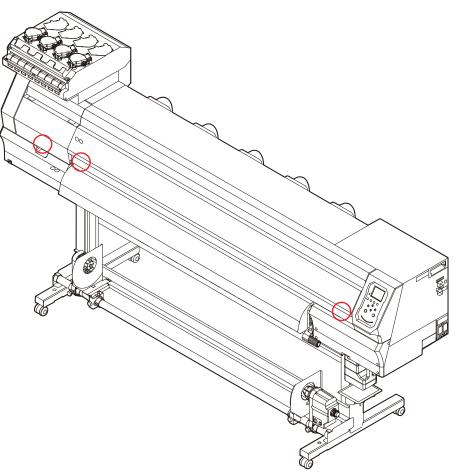
Contact your local dealer or our service office. Attempting to handle relocation yourself may result in failure or damage.

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.

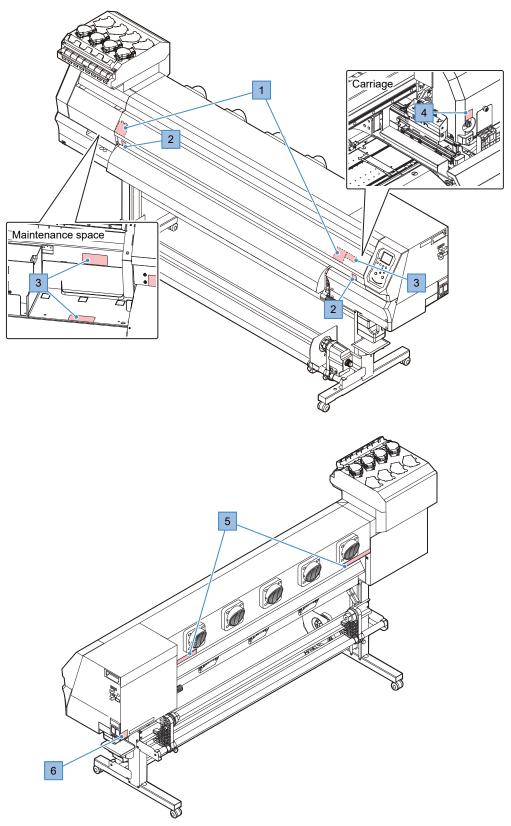
Safety interlock locations



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 entrained de graves blessures. Lors de Touverture ou de la fermeture du couverde, item / a cover end, basta 8/3 m. カバーの第年 あり 能を残まれると、ケガや骨折 のが一つ例有に、最終まで手 を添えて行ってくだたい。	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	M905811		Indicates dangerous moving parts.
6	M907935		Indicates dangerous live parts.

Chapter 1 Before Use



This chapter

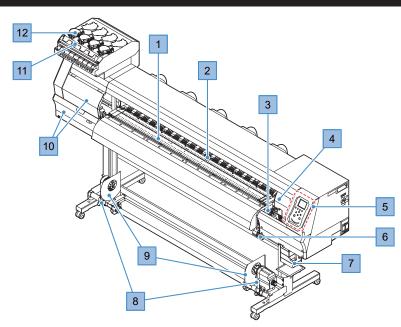
This chapter describes information essential before use, such as part names.

Part Names and Functions Front	-
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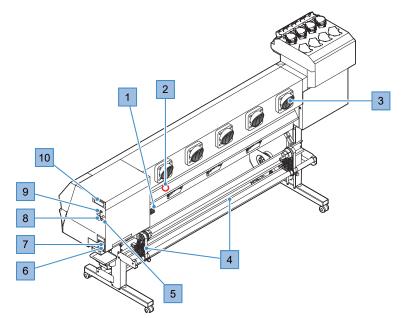
1.1 Part Names and Functions

Front



No.	Name	Overview			
1	Platen	Print area. 🐲 "Platen"(P. 23)			
2	Pinch roller Grit roller	The pinch rollers and grit rollers are used to grip and feed the media. (2) "Pinch Rollers and Grit Rollers"(P. 22)			
3	Capping station	Includes caps, wipers, and an NCU for monitoring print head nozzle conditions. (P. 22)			
4	Carriage	Consists of a print head, the jam sensor, and the media cutter. (P. 22)			
5	Operating Panel	Includes operating keys and displays indicating various settings and other items. (Ref. "Operating Panel"(P. 25)			
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. 115)			
8	Take-up unit	Rolls up the printed roll media. 🕾 "Take-up unit"(P. 53)			
9	Media edge guides	Prevents the roll media from shifting sideways as it is taken up. Using the edge guides prevents the roll media from becoming offset. (Berne Using the Edge Guides"(P. 54)			
10	Maintenance cover	Open the cover to perform maintenance on the carriage underside. Printing and automatic maintenance are not possible while the covers are open.			
11	Ink wipe filter	Filter for soaking up ink droplets from the ink bottle caps.			
12	Ink supply unit	The Ink bottle is inserted here to supply ink to the print head. I "Ink Replacement Method"(P. 37)			

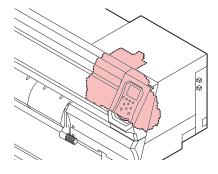
Rear and Right Side View



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. 23)
3	Blowing fan	Blows air to dry ink after printing.
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. (Replacing Ink"(P. 38)
6	AC inlet	Use the power cable provided. 🐲 "Connecting the Power Cable"(P. 29)
7	Main power switch	Main power supply for the product 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. 29) Turning Off the Power"(P. 30)
8	LAN port	Used when using the network function. 🕾 "Using a LAN Cable"(P. 32)
9	USB port	Connects to PC via a USB interface cable. 🕾 "Using a USB Cable"(P. 32)
10	Maintenance liquid cartridge	Used to automatically feed maintenance liquid to the cap, to drip liquid on to the wiper to prevent ink solidification, and to prevent ink solidifying inside the ink discharge channel during maintenance.

Carriage

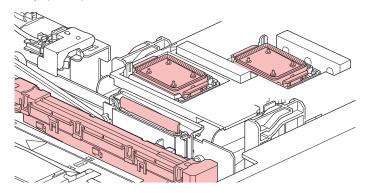
The carriage includes a print head for ejecting ink, and a jam sensor for stopping the carriage when media clogs. Printing occurs as ink is ejected while traversing left and right.



Capping station

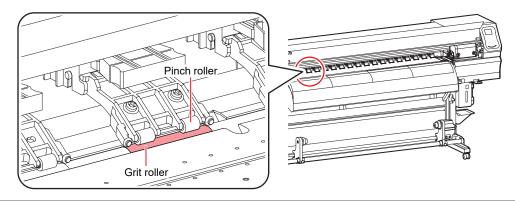
The capping station includes caps for keeping the print head nozzle surface from drying out, a wiper required for print head maintenance, and an NCU for monitoring print head nozzle conditions.

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. (Registering Nozzle check menu"(P. 86) (Registering Nozzle Recovery"(P. 78)



Pinch Rollers and Grit Rollers

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

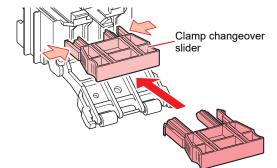




When the machine is not in use, raise the clamp lever to <u>separate the pinch rollers from the grit</u> rollers.

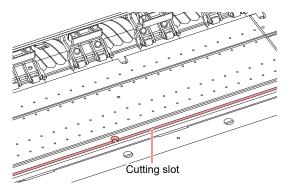
- Leaving the pinch rollers lowered may cause them to become deformed and prevent media from being fed correctly.
- Leaving media loaded will subject it to force from the pinch rollers, which may leave pinch roller marks on it.

• 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.



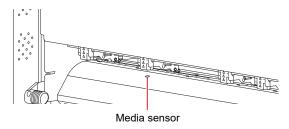
Platen

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



Media Sensor

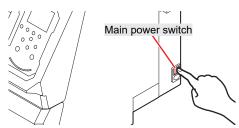
The media sensor detects the presence/absence of media. The sensor must be covered by the media to detect the media width.



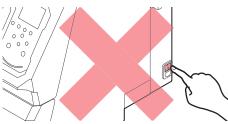
Power Supply Switch

• 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.

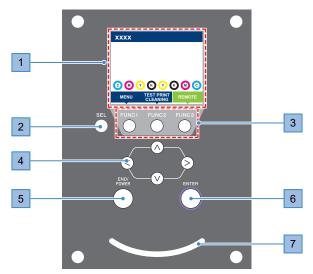




• Close the front cover and maintenance covers. Leaving any of the covers open will disable the automatic maintenance function (including nozzle clogging prevention function and waste ink draining channel cleaning function). This will increase the risk of failure or ejection failures (e.g., nozzle clogging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

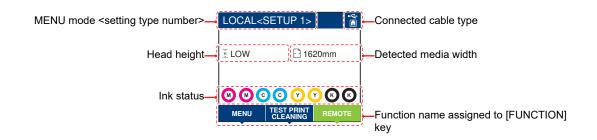
Operating Panel

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



No.	Name	Outline					
1	Display	☞ "Display"(P. 26)					
2	[SEL] key	Selects t	he functio	n for the corresponding [FUNCTION] key.			
3	[FUNCTION] key	Used for key"(P. 2		ng, head cleaning, and editing settings 🖙 "[FUNCTION]			
4	[JOG] key ▲♥●►	Used to	move the	carriage, feed media, and select settings			
5	[END/POWER] key	menu, or • Illum	 Used to cancel the last setting entered, return to the previous level of the setting menu, or to turn power on and off Illuminates in blue when the power is on. Illuminates in blue when the power is on. Illuminates in blue when the power is on. Illuminates is on the power is on. Illuminates is on the power is on the p				
6	[ENTER] key	Used to move to the next level menu and to confirm settings. This can also be used to display product information. The "Displaying Machine Information (Local Guidance)"(P. 28)					
7	Status lamp	This lamp indicates the product status.					
		С	Off	Indicates LOCAL mode. Used for test printing, maintenance, and settings			
		Light blue	Illumina ted	Indicates REMOTE mode. The product is in standby to receive print data.			
			Flashin g	Indicates printing is underway. This also flashes to indicate test printing—for example, when printing built-in patterns.			
		Blue	Illumina ted	Indicates that data remains to be printed. Switch to REMOTE mode and start printing			
		Red	Flashin g	An error has occurred. Refer to the error code list and take appropriate action. (2) "Error Message"(P. 128)			
			Illumina ted	An error (SYSTEM HALT) has occurred. Contact our service office. (2) "SYSTEM HALT"(P. 132)			

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.

lcon	Overview							
M	Displays remaining ink levels using a 9-stage icon.							
		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. I "Ink error"(P. 127)							
	Displayed when the ink has passed its expiration date. Replace with new ink or use up as quickly as possible. Printing is possible. It is poss							

[FUNCTION] key

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

lcon	Outline						
MENU	Displays the various menu screens. ("Setup" (P. 73)						
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						
$\underline{\Psi}$	Indicates that the function is assigned. Displays settings and functions.						
8	Used to enable or disable multiple items						

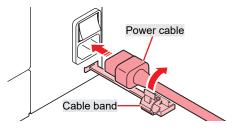
Displaying Machine Information (Local Guidance)

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

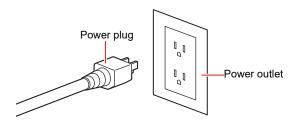
- Ink information: Displays ink type, remaining ink levels, and ink errors.
- Ink IC chip registration information: Displays the information registered on the ink IC chip.
- Warning: Displays all warnings issued.
- Information: Displays information such as media width, head height, product serial number, 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

- Check to confirm that the main power supply is turned off.
- **2** Insert the cable band to the machine.
- **3** Plug the power cable into the inlet of the machine.
- **A** 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.

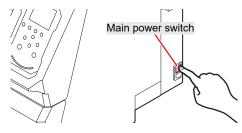




• Do not handle the power plug with wet hands. Disregarding this precaution may result in electric shock.

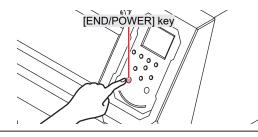
Turning On the Power

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



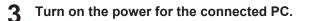
Press the [END/POWER] key to turn on power.

• 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.





 If a rapid temperature change (±10°C or more) is detected while the power is turned off, maintenance will be performed automatically when the unit is started up again. Perform the test print to check the nozzle status when a warning message is displayed after starting up the machine.



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

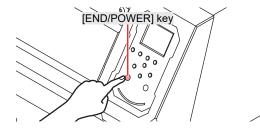


Check the following when turning off power:

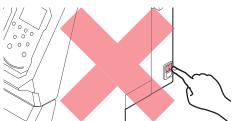
- (1) The front cover and maintenance covers are closed.
 - Leaving any of the covers open will disable the automatic maintenance function (including nozzle clogging prevention function and waste ink draining channel cleaning function).
- (2) The carriage has returned to the capping station.
 - If not, 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.
 - (3) "Problems Causing Messages to Appear"(P. 125)
- Turn off the power to the PC connected.

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 TS100-1600 to a PC

The TS100-1600 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.



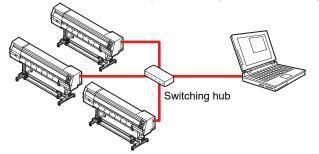
• Do not unplug the cable while data is being transferred.

• 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.

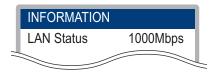
- The PC used to transfer print data must be located on the same network as this product. This product cannot be connected via a router.
- Use a 1000BASE-T compatible computer or switching hub. Printing requires 1000BASE-T support.



• Checking the LAN connection

1 Check the display on this product.

- Local guidance can be used for checking. ⁽²⁾ "Displaying Machine Information (Local Guidance)"(P. 28)
- Printing is not possible if "100Mbps", "10Mbps", or "No Connect" is displayed. Event email can be used. I Event Email Function Settings" (P. 84)



2 Check the lamp on the LAN connector.

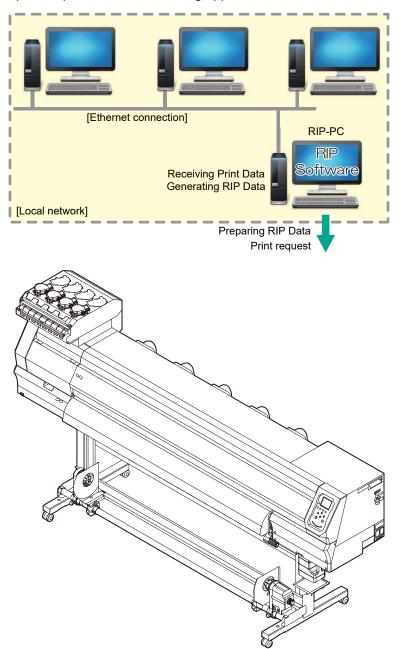
• The LAN connector lamp illuminates when the machine is running.



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

1.4 System Configuration

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



Installing the Mimaki Driver

1

- Download the Mimaki driver from our website.
- https://mimaki.com/download/inkjet.html [TS100-1600] > [Driver/Utility]
- Install the MIMAKI driver.

Installing RIP Software

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

(montant!) • If using TxLink, refer to the TxLink operating manual.

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 / TxLink). https://mimaki.com/download/inkjet.html [TS100-1600] > [Profile]

Setting Up RIP Software

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

(montant!) • If using TxLink, refer to the TxLink operating manual.

Launch RasterLink.

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

2 Register TS100-1600.

(1) Click [Add].

	Printer	Name	Model	Color	Output Port
Ac		Delete		Function icon	Properties

(2) Set the specifics for TS100-1600.

🏞 Printer Setting					
Model	Inkset				
JV100 JV150	LUS-170 CMYKLcLm V				
JV300 JV300 Plus	1 Cyan				
UJV100	2 Magenta				
CJV150 CJV300	3 Yellow				
CJV300Plus UCJV150	4 Black 5 Light Magenta				
UCJV300	5 Light Magenta 6 Light Cyan				
Color	Special Colorset				
4Color					
6Color	7 White 8 White				
8Color	o vinte				
Output Port Available Printers					
File	UCJV300 LUS170				
Ethernet					
	Read printer status				
	manually set IP address (Advanced)				
	CONNECT				
Printer UCJV300 LUS170 8colorWW					
OK Cancel					

- Model: Select the model.
- Color: Select the ink set filled.
- Output Port: Select the cable connected.
- Available Printers: Select TS100-1600 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. 28)

When Ink End is Displayed

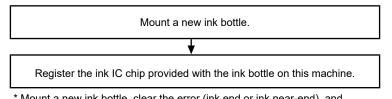
The ink has run out. Replace with new Ink bottle.

Thoroughly read the following and make sure you understand its contents. "Notes on Handling Ink or any Other Liquid Used with the Machine"(P. 11)



• 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.

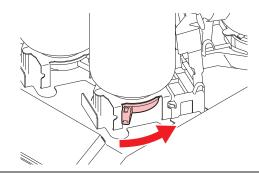
• Ink Replacement Process



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

Replacing Ink

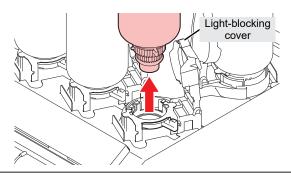
- Removing the lnk bottle
 - **1** Rotate the lever on the tank section from left to right.





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

2 Lift the ink bottles vertically.

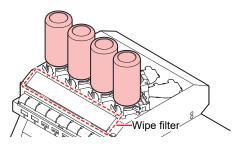


• The O-rings fitted to the bottle caps may become detached when removing ink bottles. Refit the O-ring if it becomes detached.



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

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



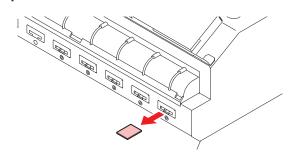
Wipe off any ink on the ink bottle caps with paper wipes.



• 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.

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.

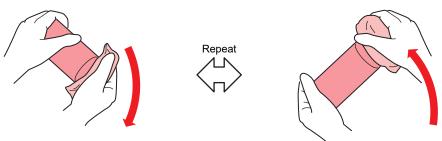
• Preparing the lnk bottle



5

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.





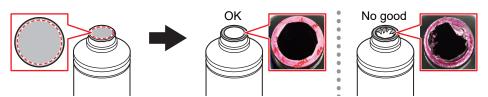
• Shake slowly. If the bottle is shaken too violently, ink may leak out or the air mixed in the ink may cause nozzle clogging.

- If the ink bottle is partially used, tilt it slowly until the ink bottle is upright.
- **?** Remove the ink bottle lid.

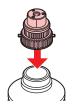


(montant!) If the mouth of the ink bottle is fitted with a seal

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

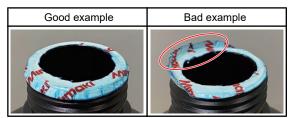


- Take care not to damage the mouth of the ink bottle. There is a risk of ink leakage if the mouth is damaged.
- Be careful not to drop any of the seal fragments into the ink bottle. If the ink bottle is used with seal fragments inside, these may clog the bottle cap, preventing ink from being supplied.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





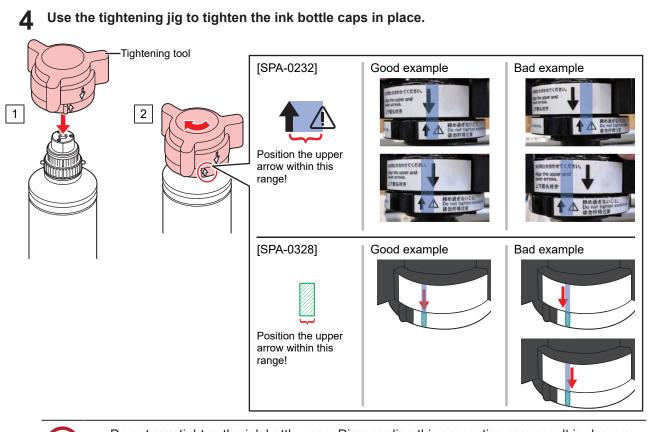
• If the seal fitted to the mouth of the ink bottle is lifting up, press it back down as shown in the figure below before attaching the ink bottle caps. Attaching the ink bottle caps with the seal left lifted up may result in ink leakage.



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



• 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.



 \bigcirc

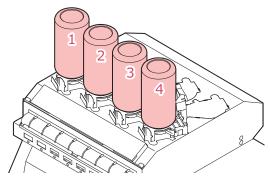
• Do not overtighten the ink bottle caps. Disregarding this precaution may result in damage, idling or ink leakage. If the arrow goes beyond the range indicated above, loosen the ink bottle caps, and repeat the steps again.

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



• Mounting the lnk bottle

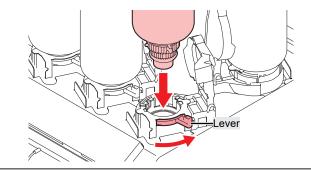
The order of Ink bottle to be set depends on the ink set you are currently using. Check the ink slot numbers, then insert the correct color Ink bottle.



Ink set Ink bottle positions (specified by colo		color)		
	1	2	3	4
4-color	М	BL	Y	К

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.



Turn the lever from right to left to secure the bottle. 2



• 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 Ink 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.

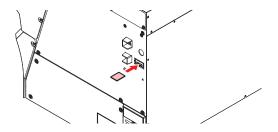
· Insert the ink IC chip with the metal side facing up. Inserting it in the wrong way may cause failure of the machine or damage the ink IC chip.

Switch to LOCAL mode. 1

· Chip registration is possible only in LOCAL mode.

2 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.



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. 42)
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. (2) "Registering the Ink IC Chip"(P. 42)
Expiration Over	• The ink is two months past its expiration date and cannot be used.	 Replace with new ink. Printing is not possible. I "When Ink End is Displayed"(P. 37)
Ink Type	A different ink type is registered on the ink IC chip.	 Insert an ink IC chip for the correct ink type. I Registering the Ink IC Chip"(P. 42)
Ink Color	A different ink color is registered on the ink IC chip.	 Insert an ink IC chip for the correct ink color. Image: "Registering the Ink IC Chip"(P. 42)
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. Certain Registering the Ink IC Chip"(P. 42)
		Turn off the main power and wait a while before turning back on.
		3. Replace with new ink. ("When Ink End is Displayed" (P. 37)

Message	Cause	Corrective action
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.



Ink Color	Marking
Blue	(One blue circle/one red circle)
Magenta	(One red circle)
Yellow	One yellow circle)
Black	(One black circle)



 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. (Figure 10) To check ink IC chip registration (Local Guidance)" (P. 28)

- 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.



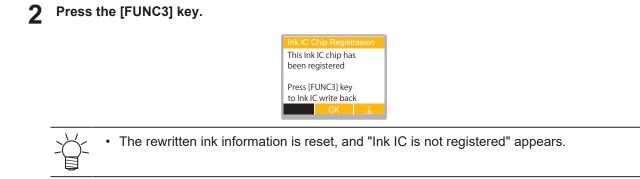
• Rewrite the ink registration information on the ink IC chip

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.



Chapter 2 Printing



This chapter

This chapter describes printing procedures and settings.

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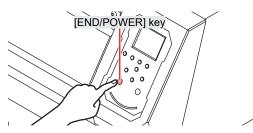
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2.1 Print Process



Turn on the power.

"Turning On the Power"(P. 29)





"Using a USB Cable"(P. 32)
"Tusing a LAN Cable"(P. 32)

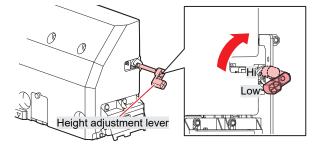
3. Setting Up RIP Software

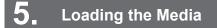
"Installing RIP Software"(P. 35) (required first time only)
 "Obtaining Color Profiles"(P. 35)

("Setting Up RIP Software" (P. 35) (required first time only)

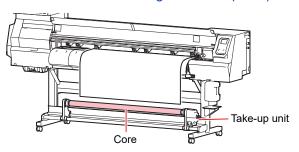
4 Adjust print head height.

Adjust the height adjustment lever to suit the media. (27 "Adjust Print Head Height"(P. 51)



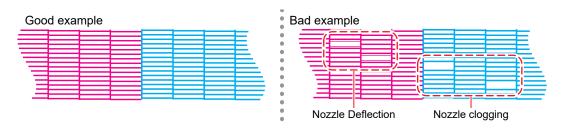


This machine can be used with roll media. (P. 53)



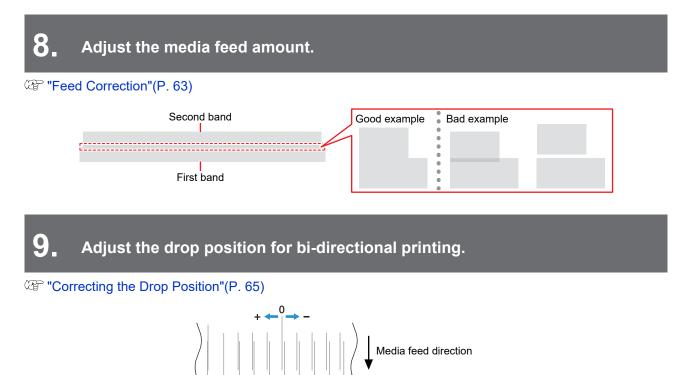
6 Check the state of the print head nozzles.

Test Printing"(P. 60)



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. 62)



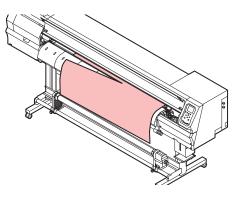
In this case, the drop position correction value will be "+4



(P. 69)



^{CP} "Cutting the media"(P. 71)



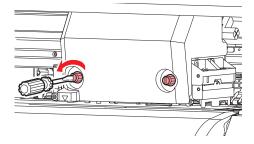
2.2 Adjust Print Head Height

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	3.0 mm (default setting)
High	3.5 mm



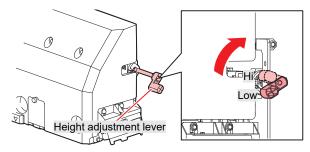
- Be sure to correct the dot position after altering the print head height. (P. 65)
- Adjust the print head height to suit the media. With inkjet printers, if the gap between the print
 and media increases, the ink droplets may vaporize before they reach the media. Vaporized ink
 may adhere to the print head nozzle surface and media, affecting print quality and causing
 failure of the print head.
- 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.
- **1** Unscrew the carriage cover screws.
 - Use a flathead screwdriver to unscrew by approximately one turn.



5

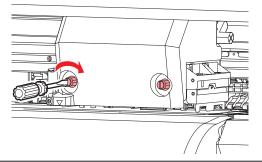
Use the height adjustment lever to adjust the height.

• 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.





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

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

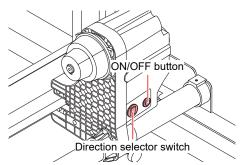
• Assign at least two people to load roll media. Otherwise there is a risk of back injury due to the weight of the media.

	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. 					
\bigcirc	 Do not leave media loaded in the machine. This may cause dust to collect on media. Also, do not use media after wiping off dust. The static electricity generated by wiping may impair print quality. Do not use media immediately after removing from the packaging. The media may expand or shrink depending on the ambient temperature and humidity at the storage location. Allow to sit for at least 30 minutes in the same room conditions as this machine before loading. Do not use curled media. Doing so may result in damage to the print head and impaired print quality. 					
(Important!)	 The underside of the media may be soiled depending on how the printed media has been stored (due to weight when laying printed media rolls horizontally, for example) and the media type. Perform a test beforehand to check that the media does not transfer ink to the underside of the 					

Take-up unit

adjacent media.

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



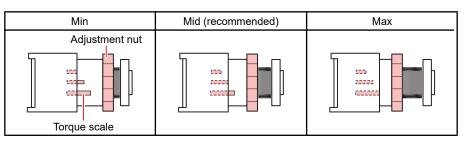
Name	Overview	
Direction selector	Up	To take up media with printed surface on the inside
switch	Down	To take up media with printed surface on the outside

Name	Overview	
	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. (Ref. Machine setup menu"(P. 81)	

Adjusting the Torque Limiter

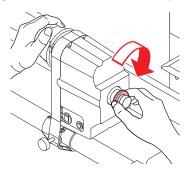
The take-up unit is fitted with a torque limiter.

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.

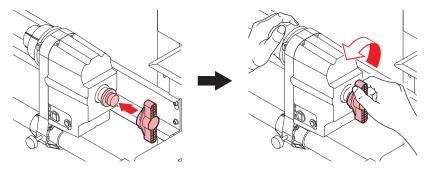




• Do not use the torque adjustment handle. Using the torque adjustment handle will cause overtightening. Overtightening may damage the take-up unit.

• Decrease tension (counterclockwise).

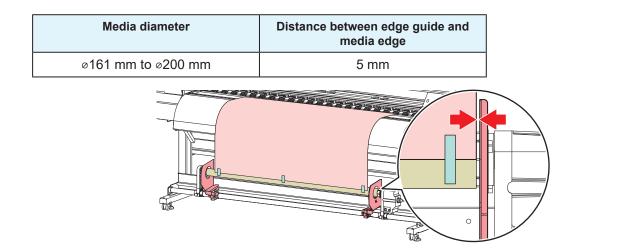
Decrease tension when using lightweight media. Use the "torque adjustment handle" provided.



Using the Edge Guides

Adjust the edge guide position to suit the roll media diameter.

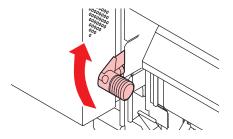
Media diameter	Distance between edge guide and media edge
Not more than ⌀120 mm	1 mm
ø121 mm to ø160 mm	3 mm



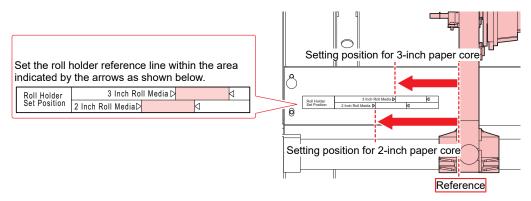
1

Loading the Roll Media

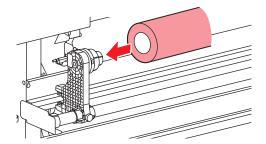
Raise the clamp lever.



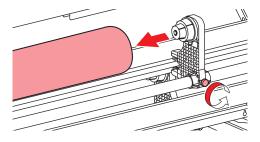
- **2** Move the rear left roll holder to the roll setting position.
 - · Unscrew the roll holder retaining screw before moving.



- **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.

8

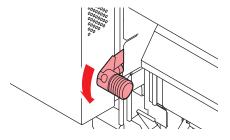
Insert the media.

· 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.

9 Lower the clamp lever.

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



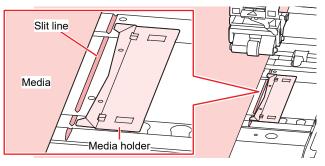
1 Move to the front of the machine and open the front cover.

1 Raise the clamp lever and pull out the media.

• Make sure the media does not fall to the rear.

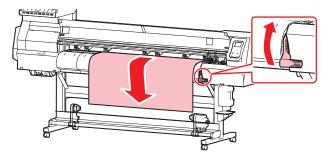


• Adjust the rear roll holder position so that the media does not cover the right-hand slit line on the platen. Movement at an angle may result in damage to the print head.



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

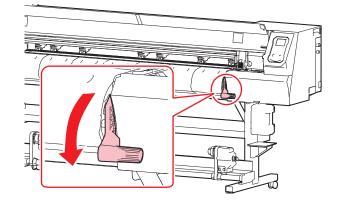
12 Gently pull out the media and stop at the position where it is gently locked in place.



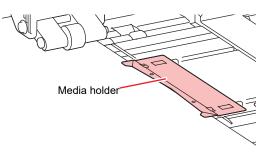
13 Check how far the media was pulled out.

• 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.



 \bigcirc

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

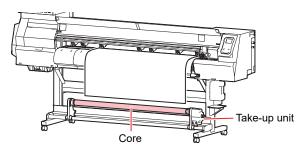
16 Press \bigcirc , then select "Roll".

•

- 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.

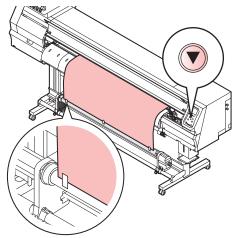
 A notification reading "Media Set Position R" will appear after media width detection if the media is too far to the right of the specified position. Reload media in the specified position.

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

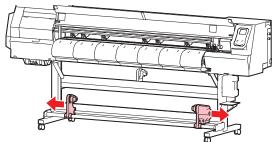


18 Secure the media to the take-up unit.

- (1) Press \bigcirc 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.

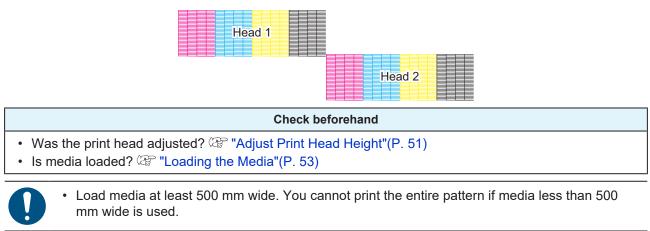


• Move the take-up unit to the left or right when it is not in use. Print quality may be affected if the front edge of the media hits the take-up unit.



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. 62)

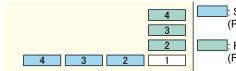


Select [Maintenance] > [Nozzle Recovery] > [Test Print], then select "ON" to perform nozzle recovery and test printing.

Registration is required to perform nozzle recovery. (27 "Registering Nozzle Recovery" (P. 78)

Changing the Layout Direction for Test Printing

You can change the layout direction for test printing.

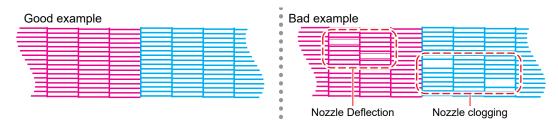


Scan direction
 (Prints repeatedly in the horizontal direction.)
 Feed direction
 (Feeds the medium and prints repeatedly in the longitudinal direction.)

- 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.



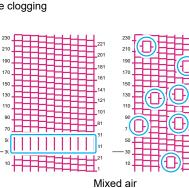
Check the print results.

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.







221 201

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. 37)

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

• The Cleaning menu is displayed.

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

3

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

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

4 Run another test print and check the print results.

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

Do the following if head cleaning fails to resolve the ejection failures (e.g., nozzle clogging or deflection).
 "Wiper Cleaning"(P. 92)
 "Cap Rubber Cleaning"(P. 94)
 "Print Head Nozzle Washing"(P. 122)

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? ^{Content} "Loading the Media"(P. 53)
- · For roll media, is the rear roll media free of sagging?
- When using the take-up unit, was the media mounted on the paper core of the take-up unit? (P. 56)

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.

On the LOCAL mode screen, select [ADJUST].



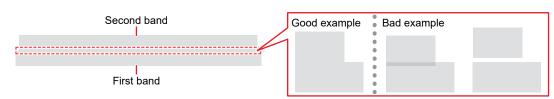
Select [Feed Comp.], then press the [ENTER] key.

· Correction pattern printing starts.



Check the print results.

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



L 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.



Press the [ENTER] key.

• Print another correction pattern to check.



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

Correcting the Media Feed During Printing

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

1 Press [ADJUST] in REMOTE mode or while printing.



- 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

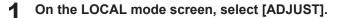
- Was the print head adjusted? (2) "Adjust Print Head Height"(P. 51)
- Is media loaded? (P. 53)



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

Drop Position Correction Procedure

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





2 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. I Setup Menu" (P. 74)



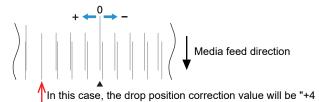
• The indicated resolutions are those in the scan direction.

4

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Check the print results.

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



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. 51)

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.



2 Select the image data to print.

- (1) Select [File] > [Open].
- (2) Select the desired image data, then click [Open].
 - If multiple printers are registered, select TS100-1600 in "Printer Name".

Select file name to print						
\leftarrow \rightarrow \checkmark \uparrow $\stackrel{\bullet}{\frown}$ > This PC > Local Disk (C:) > test			✓ C			
Organize 👻 New folder				= • 💷 🔮		
Ouick access	Name	Date modified	Туре	Size		
> 🌟 Quick access	n 1	12/2/2019 9:14 AM	Encapsulated PostScript	2,119 KB		
> 😸 Creative Cloud Files	n 2	12/2/2019 9:15 AM	Encapsulated PostScript	2,153 KB		
OneDrive	in 3	12/2/2019 9:15 AM	Encapsulated PostScript	2,151 KB		
This PC	🖻 4	12/2/2019 9:16 AM	Encapsulated PostScript	2,146 KB		
> E Desktop	it 5	12/2/2019 9:16 AM	Encapsulated PostScript	2,142 KB		
> 📑 Documents						
> 🛓 Downloads						
> 👩 Music						
> 🛃 Pictures						
> 🔀 Videos						
> 🟪 Local Disk (C:)						
🚈 Network						
File <u>n</u> ar	ne:		~ All Files	~		
			ОК	Cancel		

3 Select the image data imported.

• The image is displayed in the tab for TS100-1600 selected in "Printer name".

MimakiRasterLink7 0.2.0 Alpha Release 0								- 🗆 ×
File Function Tool Environments Abo	out							Mimaki
Printer	Job List					operties		
Status Local idle	🐥 Arranged Layered	Thumbnail	Job Name	Attribute -] Lock		^ V
1 Oyan 50%				Color -		le		
2 Magenta 50% 3 Yellow 70%		1	(man)			Job Name	[BLUE]Lady_01jpg Rename	
4 Block 888N			[RED]Lady_01.jpc	Color	• 11	File Name	[BLUE]Lody_01 jpg	<u>u</u>
5 Light Magenta 108 6 Light Gran 306						Format	JPEG	11
6 Light Cyan 30% 7 White 40%						Image Size	1010.17 KB	
8 White 50N						Pages	1	
Print Length 0.00 m						Page size	1606.20 × 1071.03 mm	57
Media Size						Favorites at the spool	ucjv300	<u> </u>
Scan Auto Detection						Job Attribute	Full Color ~ Setup	188
● Manual Input 1620.0 🐳 mm						Use special color name:	Not Exist	
Feed Roll Media						Image Edit		
Warning Line 300.0 🐳 mm						Color Adjustment Set	Normal	CO
						Jality		
Job Queue [1] Running						Media	3M 40C-114 v3.5	8 *
Thumbn. Job Na Status Progress						Resolution	600×1200 VD	
[YELLO., During ., 66%						Input Profile (ICC)	MimakiHiContrast.icm	
						Profile Name	UCJV3008CLUS1706C_3M-40C-114_v35_F	
						Overprint times	1	
						Pass	32	
						Pass quality setting	Speed	
						Fast Print	High	
						Print Direction	Bi-direction	
				1.1		Special Color Over Print	Simultaneously	83
						sults		
						Ink Consumption		THE
							0.000 cc	
							0.000 cc	
							0.000 cc	
	1151			_	114	Black	0.000 cc	~
ucjv800_8c_lsu170cmyk_clckwv [6] ujf6042mk2_8c_lus1	20cmyk_cloww [2] jv300p	lus_8c_ss21cmyk.lc1m						

A 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 TS100-1600 in the main window.
 - (2) Click 🙆 (Update the printer status) in the Printer tab.

2.9 Printing

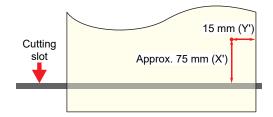
Check beforehand

- Was the print head adjusted? ("Adjust Print Head Height" (P. 51)
- Is media loaded? I Loading the Media"(P. 53)
- · For roll media, is the rear roll media free of sagging?
- When using the take-up unit, was the media mounted on the paper core of the take-up unit? (P. 56)

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 O O O.
 - The Origin Setup screen appears.
- **Press** \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc 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

Send the RIP data from the PC.

- Comparing RIP data"(P. 67)
- - If the message "Attention20A Driver version" appears, install the latest Mimaki driver. https://mimaki.com/download/inkjet.html

2 Start printing.

• Printing starts once RIP data is received.

[Number o	passes] [Scan speed] (Std: standard, Hi: high speed)				
[Resolution] REN	ORT [Dot type] VD: Variable dot				
[Nozzle Recovery] 600>					
NRS: All nozzles can be recovered NRS: A part of nozzles can be recovered OFF : Not registered or the print mode	0.0m Length of medium printed				
where nozzles cannot be recovered	[Scan direction] (Uni: unidirectional, Bi: bidirectional)				
Print speeds may differ for the same image data, depending on the width of the medium loaded, print origin position, and resolution.					

If an error occurs, the machine switches to LOCAL mode once printing is completed.
 Further printing is not possible.

Pausing Printing



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

Press [REMOTE].

- Printing resumes.
- Ť

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

Stopping Printing (Data Clear)

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

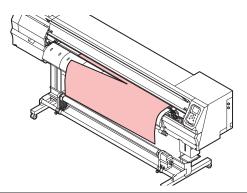


2 Press the [ENTER] key to clear the received data.

• The receive buffer is cleared.

2.10 Cutting the media

- **1** On the LOCAL mode screen, press O O O.
 - The Origin Setup screen appears.
- **Press (a) (b)** 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.

Chapter 3 Setup



This chapter This chapter describes the [MENU] functions.

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Changing the name of a setting type7	6
Maintenance Menu7	7
Registering Nozzle Recovery7	8

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Event Email Function Settings	84
Nozzle check menu	.86
Information menu	.87

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		
Feed Comp. -9999 to <u>0</u> to - 9999 9999 - -		-	 Corrects the media feed amount. Print a pattern and enter the correction amount. I "Feed Correction" (P. 63)
Drop.PosCorrect	-	-	Corrects the drop position for bi-directional printing.
(Resolution)	<u>All</u> /360std/720 std/720hi	-	Select the resolution to be corrected. When "All" is selected, correction patterns for all resolutions will be printed.
(Correction value)	-40.0 to <u>0</u> to 40.0	-	Check the pattern and enter correction values.
Auto 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	-	-	 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)	<u>All</u> /360std/720 std/720hi	-	Select the resolution to be corrected. When "All" is selected, correction patterns for all resolutions will be printed.
(Correction value)	-40.0 to <u>0</u> to 40.0	-	Check the pattern and enter correction values.
Logical Seek <u>HOST</u> /ON/ OFF OFF		OFF	Sets the range of carriage movement. • OFF: Machine size area Unidirectional print Bi-directional print Carriage movement

Item		Setting		Details	
	*1 *2		*2		
				ON: Print data area Unidirectional print Bi-directional print Print data Carriage movement	
DF	RYING TIME	-	-	Sets the ink drying time.	
	Scan	HOST/0.0 to 9.9 sec	0	 Sets the time to stop the carriage each time the carriage scans. In the MIMAKI RIP software (RasterLink), it is indicated as the "drying time after each scan". 	
	PRINT END	<u>HOST</u> /0 to 120 min	0	 Sets the stop time after printing. After the set time passes, the next data is printed. The Mimaki RIP software (RasterLink) does not allow the user to specify PRINT END. If the machine is set to "HOST", the time will be "0". 	
Ma	argin/Left	HOST/-10 to	0m	Sets the offset value from the media left and right standard	
Ma	argin/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. 	
Va	acuum fan	<u>HOST</u> /Weak/ Standard/ Strong	Stro ng	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.	
Fe	Feed Speed <u>HOST</u> /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. 	
Au	Auto Cleaning		-	Sets the conditions to perform auto head cleaning after the preset number of files are printed.	
SETUP File/Length/ - <u>Time</u> /OFF		-	Sets the conditions to perform auto head cleaning.		
	Interval		-	Sets auto head cleaning intervals.	
	(File) 1 to 1,000 -		-	Sets the interval at which the number of files is selected.	
(Length) 0.1 m to 100.0 - Sets the interval at wh		Sets the interval at which the print length is selected.			
(Time) 10 to <u>60</u> to - 240 min			-	Sets the interval at which the print time is selected.	

Item		Setting		Details
		*1	*2	
	Туре	Normal/Soft/ Hard	-	Sets the head cleaning type.
	Cleaning Check	ON/OFF	-	Sets whether nozzle checking is performed after auto head cleaning is completed.
This function make feed str Altering MAP		 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	<u>AUTO</u> / MANUAL	-	This should normally be set to "AUTO". When set to "MANUAL", the following items are displayed:
	Smoothing Level	0 to 100 %	-	Increasing smoothing makes streaks less visible.
	Speed	50 to 100 %	-	Reducing speed will make streaks less visible. However, printing will be slower.
co	ncentration rrection between sses	<u>OFF</u> /Weak/ Medium/ Strong	-	 This function makes periodic concentration variations less noticeable. Check by printing. Once set, does not need to be adjusted until the print head is replaced.
		<u>OFF</u> /100 to 500 mm	-	 Sets the distance the media is fed backward and forward before printing. Moving the media backward and forward prevents it sticking to the platen and minimizes wrinkles in the media.
Se	etup Reset	-	-	Initializes the details set.

*1. The default settings are shown underlined.

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

Changing the name of a setting type

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

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

- The setting types are displayed.
- **2** 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.

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
Station	-	This moves the carriage to allow station and print head maintenance.
Carriage Out	-	
Move To Platen Right End	-	Cleans around the station, including the cap, wiper, and NCU. ""Wiper Cleaning"(P. 92) "Cap Rubber Cleaning"(P. 94) ""NCU Cleaning"(P. 95)
Move To Maint. Space	-	Cleans around the print head. Cerriage Underside Cleaning"(P. 95) Cerriage Sensor Cleaning"(P. 98) Cerriade Sensor Cleaning"(P. 98)
Nozzle Wash	1 to 99 min	Washes the print head nozzle surface with maintenance liquid to resolve print defects (e.g., nozzle clogging, deflection).
Pump Tube Cleaning	-	Washes the suction pump tube (below the cap). "Ink Discharge Channel Cleaning"(P. 97)
Custody Wash	1 to 99 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.
Replace Wiper	-	Use this function when replacing the wiper. Replacing the wiper resets the wiper usage counter.
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. Prints a pattern to check nozzle condition and register the nozzle.
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. 79)
Test printing	ON/OFF	Sets whether to perform nozzle recovery before test printing.
Auto Maint.	-	 Sets various maintenance actions to be performed automatically. Set the interval between individual maintenance actions. If the warning message "Replace Wasteinktank" appears, the automatic maintenance function is disabled. I Waste Ink Tank Replacement"(P. 115)
Refresh	0.5 to <u>1.0</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>48</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	aste ink tank	-	Resets or corrects the waste ink tank usage count. (27) "Waste Ink Tank Replacement"(P. 115)
Fi			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).

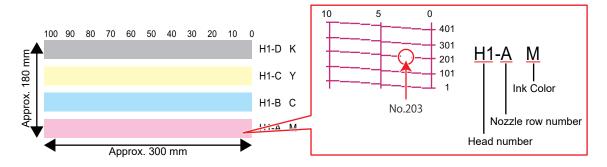


• Nozzle recovery can be specified for up to 10 nozzles per row. The time taken for printing remains unchanged even when nozzle recovery is set.

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

Position the media.

- **2** On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - The Maintenance menu is displayed.
- **3** Select [Nozzle Recovery] > [Print], then press the [ENTER] key.
- Select the head for nozzle recovery, then press the [ENTER] key.
- **5** Select "Print Start", then press the [ENTER].
 - Print a nozzle recovery pattern.
 - The Select Entry Nozzle screen appears once printing is complete.



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

	SELEC	T E	OZZLE	
	Head1	A	>	
Head number	Head1	В	>	– Nozzle row number
	Head1	С	>	
	Head1	D	>	
	Head2	Α	>	
	<<		>>	

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.

	Head2	-D		
	No.1		16	
	No.2		128	
Entry number 1 to 10	No.3		184	— Nozzle number
	No.4		OFF	
	No.5		OFF	
	<<		>>	

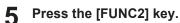
8 Press the [ENTER] key once entry is complete.

Select [Maintenance] > [Nozzle Recovery] > [Test Print], then select "ON" to perform nozzle recovery and test printing. ^(AP) "Test Printing"(P. 60)

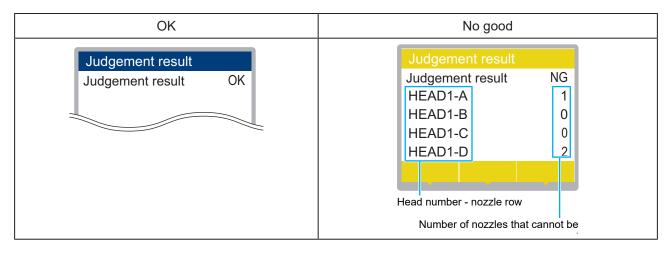
Checking whether nozzle recovery is set correctly

- **1** Load the media.
- **2** 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.
- **L** Enter the desired printing conditions.

Judgement Condition				
Resolution	720 x 720			
PASS	8			
Scan Speed	NORMAL			
MAPS 4	>			
OVER PRINT	1			
Ŧ				



• 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

ltem	Setting ^{*1}	Details
Auto Power-off	None/5 min to <u>15 min</u> to 600 min	Sets the time until the power is automatically turned off.
Auto Power-on	-	Sets the time to automatically turn on the power.
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	<u>0</u> to 3 times	Performs nozzle recovery (cleaning followed by nozzle checking) for the specified number of times.
Take-up Unit	-	Sets the take-up unit operation.
Take-up Unit	<u>ON</u> /OFF	Set to "OFF" if the take-up unit is not used.
Take-up SW	<u>Continuous</u> / Temporary	 Sets the function performed by the ON/OFF button on the take-up unit in LOCAL mode. 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.
Top blower	<u>ON</u> /OFF	Sets the blowing fan operation during printing.
STRENGTH	<u>AUTO</u> /Weak/ Standard	Sets the blowing fan wind strength.
Media 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.
Media Detect	-	Sets the media width detection method.
DETECTION <u>AUTO</u> / TYPE 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>OF</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.
Detect Speed <u>Fast</u> /Standard		 Fast: Clear or reflective media may not be detected. If detection is unsuccessful, select "Standard".

Item	Setting ^{*1}	Details
		 Standard: Select "Standard" if the medium is not detected successfully.
LANGUAGE	<u>English</u> / Japanese/ Chinese	Sets the display language.
Time 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.
UNIT / TEMP	<u>°C</u> /°F	Sets the display unit for temperature (Celsius/Fahrenheit).
UNIT / LENGTH	<u>mm</u> /inch	Sets the display units for length and area.Some items are displayed in "mm" even if "inches" is selected.
Key Buzzer	<u>ON</u> /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.
View Feed	<u>ON</u> /OFF	Sets whether or not to feed the media forward to view the print results—for example, during test printing.
Space 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.
Space Feed Mode	<u>Intermittent</u> / 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.
Network	-	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".
Event 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. The mail Function Settings"(P. 84)
Mail Delivery	ON/ <u>OFF</u>	Sets whether event emails are sent.

	ltem	Setting ^{*1}	Details
Se	elect 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.
Ma	ail Address	-	Sets the email address to which emails will be sent (not to exceed 96 alphanumeric characters or symbols).
Me	essage Subject	-	Sets the characters contained in a message subject (not to exceed 8 alphanumeric characters or symbols).
Se	erver 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".
Tra	ansmit Test	-	Sends a test email. 🕾 "Transmit Test"(P. 84)
to Remote <u>ON</u> /OFF		<u>ON</u> /OFF	Sets whether to automatically switch to REMOTE mode and start printing if data is received locally.
	ng Before Cut	ON/OFF	Sets whether to feed media before cutting the media.

ltem	Setting ^{*1}	Details
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.

DISCLAIMERS

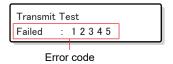
- Internet communication charges for email notifications, etc. are the responsibility of the customer.
- Event emails may not be delivered if problems arise with the Internet setup or equipment. Mimaki rejects all liability for damages resulting from delivery failure or delay.

Transmit Test

- In LOCAL mode screen, select [MENU] > [Machine Setup], then press the [ENTER] key.
 - The Machine Setup menu is displayed.
- **2** 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.

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.

Error code	Likely cause	Corrective action
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.

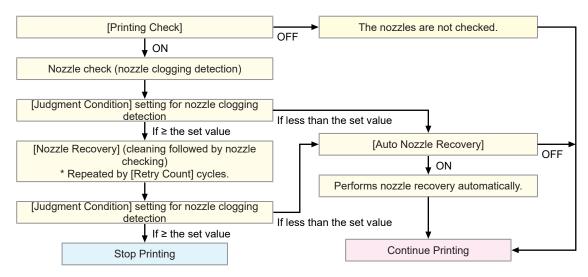
1. *** is the error code received from the mail server



• 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
Pr	Printing Check		ON/ <u>OFF</u>	Performs nozzle clogging detection before printing starts.
	Check 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.
	Ac	tion	-	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.
1	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.
Judgment Condition ^{*2}		*0	OFF / 1 to <u>10</u> 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.
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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·····	96
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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.



- 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.



 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. 🕾 "Ink Maintenance"(P. 92)
At the end of the work	Clean the wiper and wiper bracket. 🖙 "Wiper Cleaning"(P. 92)
week	Clean the cap rubber. 🕾 "Cap Rubber Cleaning"(P. 94)
	Clean the NCU. 🕸 "NCU Cleaning"(P. 95)
	Clean the underside of the carriage. 🕾 "Carriage Underside Cleaning"(P. 95)
	Clean the DAS sensor. (CP "Automatic Correction Sensor (DAS) Cleaning"(P. 96)
	Clean the ink discharge channel. 🖙 "Ink Discharge Channel Cleaning"(P. 97)
	Clean the media sensor. 🖙 "Media Sensor Cleaning"(P. 98)
	Clean the media holder. 🕾 "Media Holder Cleaning"(P. 99)
	Clean the platen. I Platen Cleaning"(P. 99)
	Clean the cover (exterior). (Cover (Exterior) Cleaning" (P. 100)
	Check the waste ink levels in the waste ink tank. 🖙 "Replacing the Waste Ink Tank"(P. 116)
At the end of two weeks' work	Clean the blowing fan filter. 🖙 "Blowing Fan Filter Cleaning"(P. 100)
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. (Ref "When this Printer is Left Unused for a Long Time"(P. 101)

Items Required for Maintenance

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



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

Ink Maintenance

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

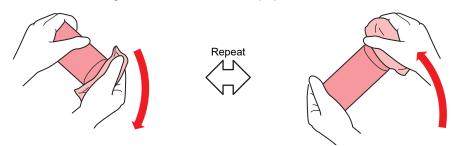
Dye sublimation ink: once a week.

• Shaking 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.

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).



1

• 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.

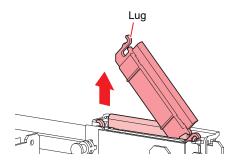
- The Maintenance menu is displayed.
- **2** Select [Station] > [Carriage Out] > [Move To Platen Right End], then press the [ENTER] key.
 - The carriage moves over the platen.

3 Open the front cover.



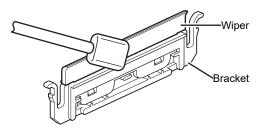
Remove the wiper.

• 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.

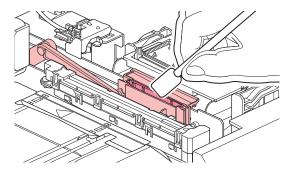




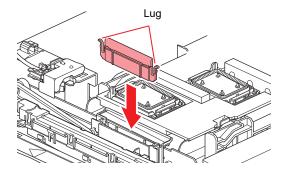
• Replace dirty or warped wipers with new ones. (Wiper Replacement" (P. 104)

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.

8 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).



Δ

• 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.

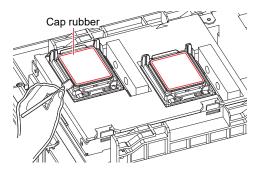


• The carriage moves over the platen.



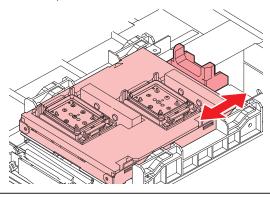
Clean the cap rubber.

• 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).

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.

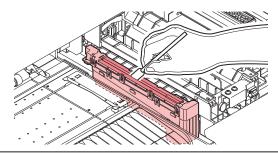


Δ

Open the front cover.

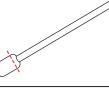
Clean the NCU.

• 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.



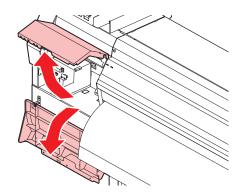
• Be careful to avoid leaving fragments from the cleaning stick behind when cleaning. These fragments will increase the risk of ejection failures (e.g., nozzle clogging or deflection).

- On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - The Maintenance menu is displayed.

Select [Station] > [Carriage Out] > [Move To Maint. Space], then press the [ENTER] key.

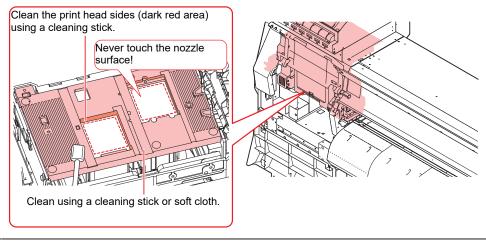
• The carriage moves to the maintenance space.

3 Open the maintenance covers.



L 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.

5 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.

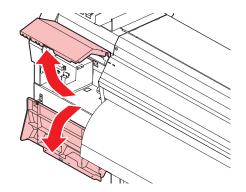


1

Select [Station] > [Carriage Out] > [Move To Maint. Space], then press the [ENTER] key.

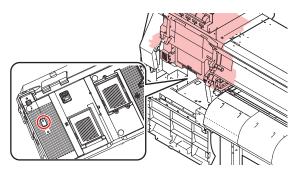
• The carriage moves to the maintenance space.

Q 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 cap is filled with maintenance liquid.



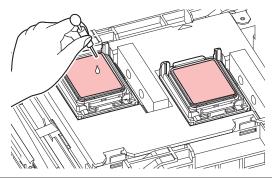
Close the front cover. The cap cannot be filled with maintenance liquid unless the front cover is closed. This is also true if the maintenance liquid cartridge is empty.

3 Open the front cover.

• Check to confirm that the cap is filled with maintenance liquid.



• If not, use a syringe to draw up some maintenance liquid and fill until it almost overflows from the cap.

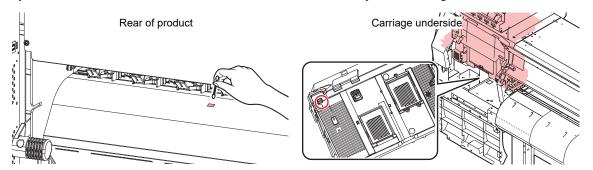


4 Close the front cover, then press the [ENTER] key.

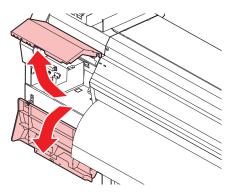
• Pump tube (ink discharge channel below the cap) washing starts.

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
 - 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.





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

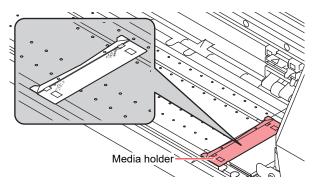
Media Holder Cleaning



• 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.

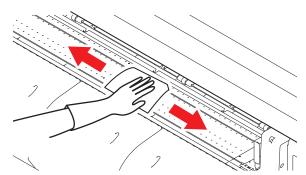
Platen Cleaning

• 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.

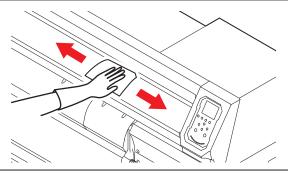


• For heavy soiling, wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out.

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.

Blowing Fan Filter Cleaning

Wash the blowing fan filter in water if it is dirty.

• Recommended cleaning guide

Check the filter for dirt every two weeks, and wash it in water if it is dirty.

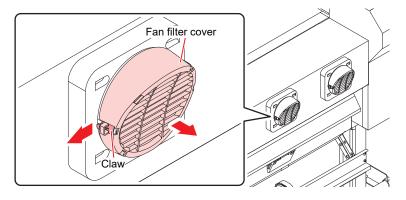


1

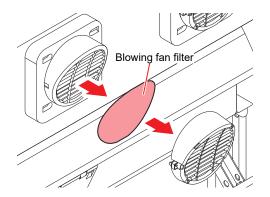
• Replace the filter every three months. (2) "Blowing Fan Filter Replacement" (P. 109)

Remove the fan filter cover.

• Push the fan filter cover claw outward, and pull the cover to the front.



2 Remove the filter.



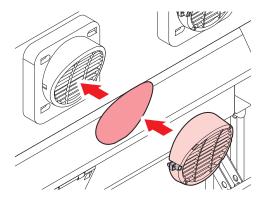
3 Wash the filter.



• Dry the filter after washing.

Attach the dry filter together with the fan filter cover.

• Push in the fan filter cover until the tab clicks.



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.
- **2** Select [Station Maint.] > [Custody Wash], then press the [ENTER] key.
 - The carriage moves over the platen.



1

A Clean the wiper and bracket.

• ⁽²⁷⁾ "Wiper Cleaning"(P. 92)

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. 94)

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

• The cap is filled with maintenance liquid.



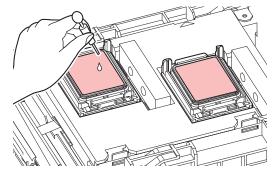
Close the front cover. The cap cannot be filled with maintenance liquid unless the front cover is closed. This is also true if the maintenance liquid cartridge is empty.

8 Open the front cover.

· Check to confirm that the cap is filled with maintenance liquid.



 If not, use a syringe to draw up some maintenance liquid and fill until it almost overflows from the cap.



Close the front cover.

1 Set the exposure time, then press the [ENTER] key.

- Print nozzle washing starts. The elapsed time is displayed on the display.
- · Cleaning is performed automatically once print nozzle washing has ended.
- The cap is filled with maintenance liquid.



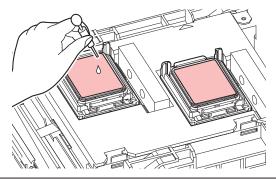
• Close the front cover. The cap cannot be filled with maintenance liquid unless the front cover is closed. This is also true if the maintenance liquid cartridge is empty.

1 Open the front cover.

• Check to confirm that the cap is filled with maintenance liquid.

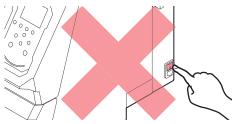


If not, use a syringe to draw up some maintenance liquid and fill until it almost overflows from the cap.



12 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</u> <u>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. 115)

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.

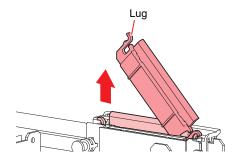
- **2** On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - The Maintenance menu is displayed.

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.

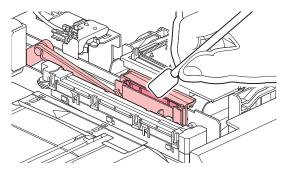
• Hold the lug at the rear of the wiper bracket, then pull out the wiper.



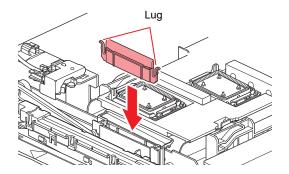
Clean the wiper slider.

6

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



7 Mount a new wiper.



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

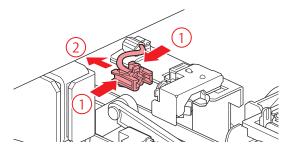
Wiper Cleaner Replacement

Replace with a new wiper cleaner once a year.

- 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.

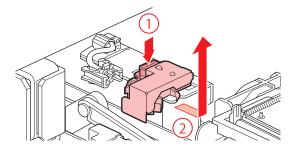
A Remove the fittings.

- Pull out the fitting by holding the protrusion.
- Take care to avoid losing the rubber seal.



5 Remove the wiper cleaner.

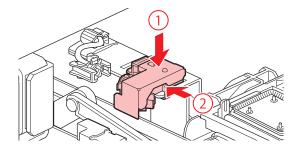
• Pull it forward to detach it.





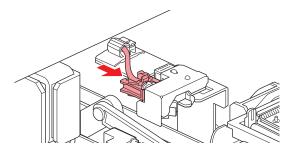
Mount a new wiper cleaner.

• Slide backward to attach.



Install the fitting.

• Improper attachment may result in leaking maintenance solution.



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

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.

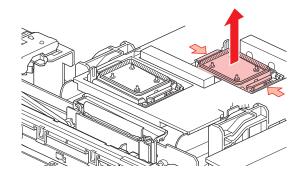


- On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - The Maintenance menu is displayed.
- **2** Select [Station] > [Carriage Out] > [Move To Platen Right End], then press the [ENTER] key.
 - The carriage moves over the platen.
- **3** Open the front cover.



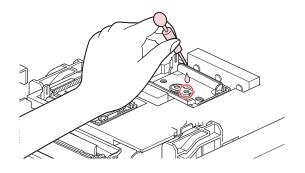
Remove the cap.

• Squeeze the lugs on either side of the cap and pull off.



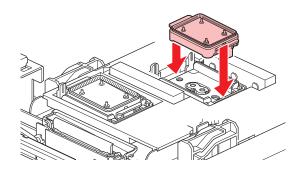
5 Apply maintenance liquid.

• 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.

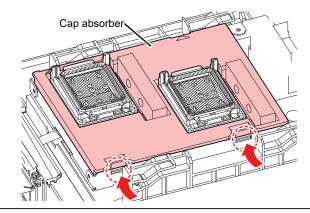
- **1** On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - The Maintenance menu is displayed.
- 2 Select [Station] > [Carriage Out] > [Move To Platen Right End], then press the [ENTER] key.
 - The carriage moves over the platen.
- **3** Turn off the main power supply.

5



Remove the cap absorber.

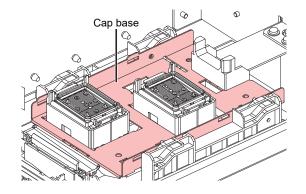
• Push up the two tabs at the front to remove the cap absorber.





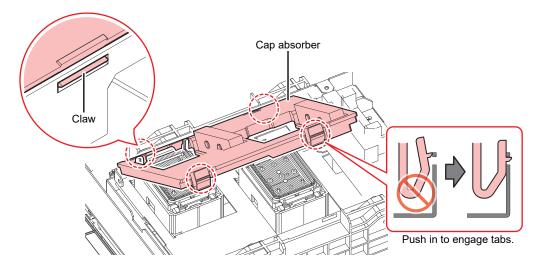
· Avoid ink dripping when removing the cap absorber.

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.



8 Once replacement is complete, move the wiper back to the rear by hand.

Q Close the front cover, then turn on the power.

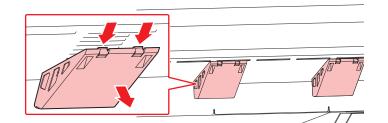
• Check to confirm that the carriage returns to the station.

Exhaust Fan Filter Replacement

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

1 Remove the exhaust fan box.

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

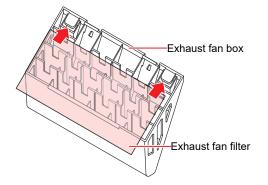




Replace the very dirty exhaust fan box with new one.

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

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



3 Mount the exhaust fan box.

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

Blowing Fan Filter Replacement

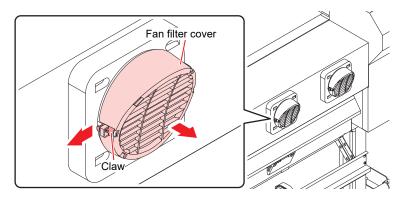
Replace the blowing fan filter if it is dirty.

• Recommended replacement guide

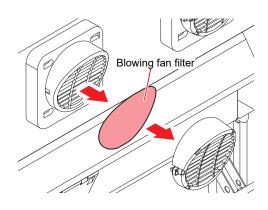
Replace the filter every three months.

Remove the fan filter cover.

• Push the fan filter cover claw outward, and pull the cover to the front.

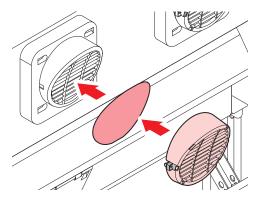


2 Remove the filter.



3 Mount a new filter and the fan filter cover.

• Push in the fan filter cover until the tab clicks.



Pinch Roller Replacement

Replace worn or dirty pinch rollers with new ones.

• Recommended replacement guide

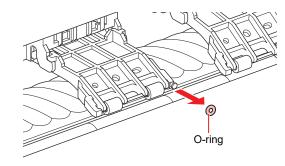
Replace the pinch rollers every month if used for approximately 12 hours per day. Replace the pinch rollers every two weeks if used 24 hours per day.



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

Open the front cover.

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

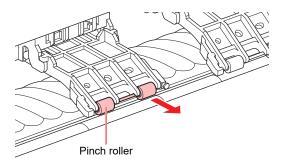




4

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

Remove the pinch rollers.



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

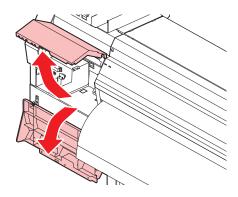
Media Holder Replacement

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

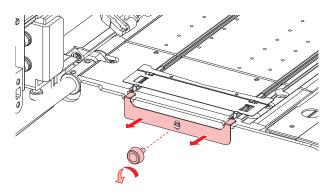


Turn off the main power and unplug the power cable before replacement.

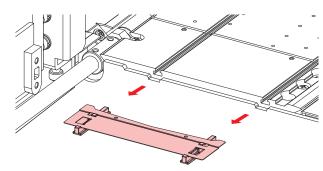
1 Open the maintenance covers.



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

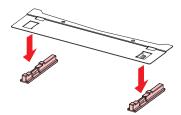


3 Remove the media holder.



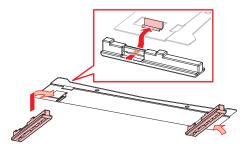
4 Remove the sliders from the media holder.

· Be careful to avoid misplacing the sliders.

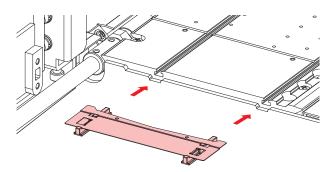


5 Mount the sliders on to the new media holder.

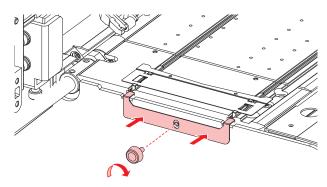
• Engage the holes in the sliders on to the lugs on the media holder.



6 Mount the new media holder on to the platen.



7 Secure the media holder stopper with the screw.



8 Close the maintenance covers.

Media Cutter Replacement

Replace cutters when blades are chipped or blunt.



3

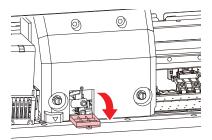
• Avoid touching the cutter blade. Failure to do so may result in injury.

- 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.
 - Open the front cover.



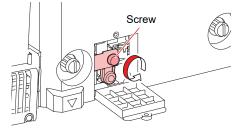
• The carriage can be moved by hand. Move the carriage slowly to a position allowing easy access while replacing.

Loosen the screws and open the carriage cover window.

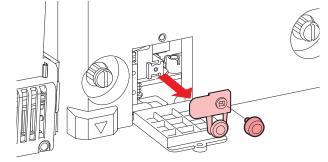


5 Replace the media cutter.

(1) Unscrew the cutter screw.



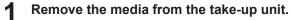
(2) Remove the cutter.



- (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.

Media Edge Guide Film Replacement

Replace the media edge guide film if it is creased or worn.

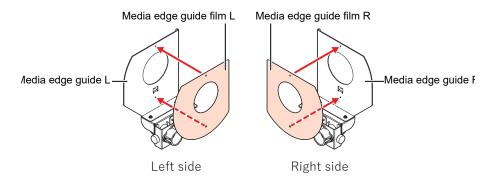




Make sure no parts of the double-sided tape remain.

Remove the media edge guide film from the media edge guide.

- **3** Remove the double-sided tape on the media edge guide film and attach it to the media edge guide.
 - Align and attach the film hole (x2) to the screw hole (x2) of the media edge guide.



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

The "Check Waste Ink Tank" message appears on the display.

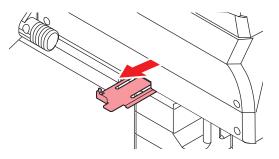
2 Check the waste ink levels in the waste ink tank.

- If you note any discrepancies from actual levels, proceed to the next step.
- If there is no discrepancy, replace (dispose of) the waste ink tank referring to (27 "Replacing the Waste Ink Tank"(P. 116).
- **3** 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.

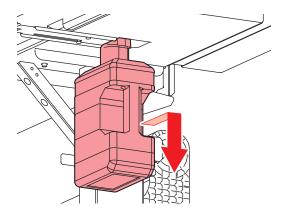
- Press () To adjust the level.
- **7** Press the [ENTER] key once adjustment is complete.

Replacing the Waste Ink Tank

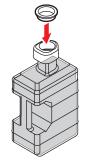
- On the LOCAL mode screen, select [MENU] > [Maintenance], then press the [ENTER] key.
 - The Maintenance menu is displayed.
 - Select [Waste Ink Tank], then press the [ENTER] key.
 - "Replace Wasteinktank Level: 80 % (1.6 L)" appears on the display.
- Select [Reset Waste Ink Volume], then press the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



5 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.

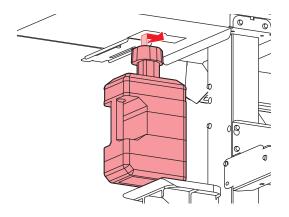




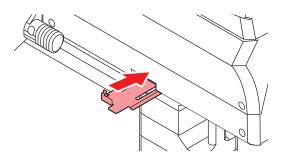
6

• 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.



8 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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SYSTEM HALT	

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. (P. 29)
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. 29)
Is the [END/POWER] key on the operating panel turned on?	Turn the power on. (Turning On the Power"(P. 29)

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. I Using a USB Cable"(P. 32)
Is a LAN cable connected?	Connect the cable securely to the LAN port. (Connect the cable securely to the LAN port.) Cable"(P. 32)
Are you using a LAN cable approved by Mimaki?	Check the LAN cable type. 🍲 "Using a LAN Cable"(P. 32)
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. 25)

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. (2) "Loading the Media"(P. 53)

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.

Image defects occur.

Symptom		Corrective action	
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). (F "Media Holder Cleaning"(P. 99)(F "Platen Cleaning"(P. 99)	
	2.	Perform the procedure described in IP "Head Cleaning"(P. 62).	
	3.	Perform the procedure described in IP "Feed Correction"(P. 63).	
	4.	Perform the procedure described in 🕾 "Wiper Cleaning"(P. 92).	
	5.	Perform the procedure described in ("Cap Rubber Cleaning" (P. 94).	
	6.	Perform the procedure described in 🖙 "Carriage Underside Cleaning"(P. 95).	
Text is double- or triple-printed in the media feed direction.	1.	Perform the procedure described in CP "Feed Correction"(P. 63).	
Offsetting occurs during bidirectional printing.	1.	Perform the procedure described in 🐨 "Correcting the Drop Position"(P. 65).	
Ink droplets drip during printing.	1.	Perform the procedure described in 🕾 "Wiper Cleaning"(P. 92).	
	2.	Perform the procedure described in 🕾 "Cap Rubber Cleaning"(P. 94).	
	3.	Perform the procedure described in ("Carriage Underside Cleaning" (P. 95).	
	4.	Perform the procedure described in 🕾 "Head Cleaning"(P. 62).	
	5.	Set auto maintenance. (CP "Maintenance Menu"(P. 77)	
		Perform the procedure described in ("Head Cleaning" (P. 62).	
		Perform the procedure described in ⁽²⁾ "Print Head Nozzle Washing"(P. 122).	
	3.	Perform the procedure described in 🕾 "Wiper Replacement"(P. 104).	
	4.	Perform the procedure described in (Registering Nozzle Recovery" (P. 78).	

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

Print Head Nozzle Washing

If ejection failures (e.g., nozzle clogging or deflection) remain unresolved even after head cleaning ("Head Cleaning"(P. 62)), apply nozzle wash to the print head.

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

• The Maintenance menu is displayed.

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

- The carriage moves over the platen.
- **3** Open the front cover.

1

Clean the wiper and bracket.

• CP "Wiper Cleaning"(P. 92)

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. 94)

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

• The cap is filled with maintenance liquid.



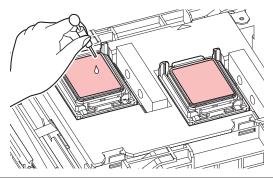
Close the front cover. The cap cannot be filled with maintenance liquid unless the front cover is closed. This is also true if the maintenance liquid cartridge is empty.

8 Open the front cover.

• Check to confirm that the cap is filled with maintenance liquid.



If not, use a syringe to draw up some maintenance liquid and fill until it almost overflows from the cap.



Q Close the front cover.

1 Set the exposure time, then press the [ENTER] key.

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



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

The ink has leaked out

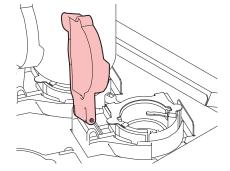


If an ink leak occurs, turn off the main power immediately and unplug the power cable. Then, contact your local dealer or our service office.

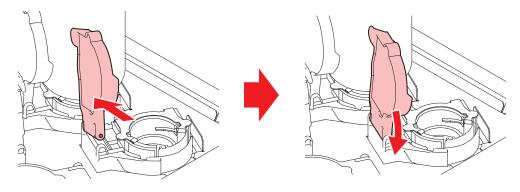
The light-blocking cover comes off.

If the light-blocking cover comes loose, 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. (P. 28) "Displaying Machine Information (Local Guidance)" (P. 28)

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. I "NCU Cleaning"(P. 95)
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 Error	An ink error occurred.	 Check the ink error details. If "Ink error" (P. 127)
COVER OPEN	The cover is open.	Close the cover.
Lower the clamp lever	• The clamp lever is raised.	 Lower the clamp lever. If The second s
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.
Printing not possible/ink IC	An unusable ink IC chip is used.	 Replace with new ink and a new ink IC chip.
NO MEDIA	• No media is loaded, or the sensors are faulty.	 Load the media. I Loading the Media"(P. 53) Clean the media sensor. I Media Sensor Cleaning"(P. 98)
Please load media.	• No media is loaded, or the sensors are faulty.	 Load the media. I Loading the Media"(P. 53)

Message	Cause	Corrective action
No media detected	The media width has not been detected.	• Detect the media width. 🐼 "Loading the Media"(P. 53)
Replace Wiper	 The wiping count exceeded the preset value. 	• Replace the wiper, then reset the count.
Wiper Move Failure	The wiper is not operating correctly.	 Clean the wiper and around the wiper. "Wiper Cleaning"(P. 92)
		2. 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. ⁽²⁾ "When "Check Waste Ink Tank" message appears"(P. 115)
		2. Replace the waste ink tank, then reset the waste ink level. (27) "Replacing the Waste Ink Tank"(P. 116)
Check Waste Ink Tank	• The waste ink tank count exceeded the preset value (80%).	1. Check the waste ink levels in the waste ink tank. The waste ink Tank "message appears" (P. 115)
		2. Replace the waste ink tank, then reset the waste ink level. 🐨 "Replacing the Waste Ink Tank"(P. 116)
No washing liquid cartridge	No maintenance liquid cartridge is loaded.	Load the maintenance liquid cartridge.
Replace the washing liquid cartridge	The maintenance liquid has run out.	Replace with a new maintenance liquid cartridge.
Washing liquid end	The maintenance liquid has run out.	Replace with a new maintenance liquid cartridge.
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. 13)
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. 96) If automatic correction fails repeatedly, correct the position manually. [MENU] > [Setup] > [Feed Comp.] or [Drop.PosCorrect]
** days since last maintenance	 Maintenance has not been done for a certain period of time. 	 Carry out maintenance. "Maintenance Items and Timing"(P. 91) The message disappears after executing [Station Maint.] > [Carriage Out].

Message	Cause	Corrective action
Cleaning was executed because a large ambient temp. change was detected Check the nozzle condition	 Temp. change of more than 10°C was detected. 	 Perform a test print to check the nozzle condition. Test Printing"(P. 60)

Ink error

Message	Cause	Corrective action
Ink End	The ink has run out.	 Replace with new ink. ⁽²⁾ "When Ink End is Displayed"(P. 37)
Ink Near End	 Ink levels are low. 	 The ink will run out soon. Have new ink ready. I "When Ink Near End is Displayed"(P. 37)
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. The Registering the Ink IC Chip"(P. 42)
		 Turn off the power on the machine and turn it on after a while.
		 Replace with new ink. ⁽²⁾ "Replacing Ink"(P. 38)
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. I Registering the Ink IC Chip"(P. 42)
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. I "Registering the Ink IC Chip"(P. 42)
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. 38)
Expiration:2MONTH	 The ink is two months past its expiration date and cannot be used. 	 Replace with new ink. Printing is not possible. I replacing Ink"(P. 38)

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. 42)
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. (2) "Registering the Ink IC Chip"(P. 42)

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. I When Ink End is Displayed"(P. 37)
Ink Type	 A different ink type is registered on the ink IC chip. 	 Insert an ink IC chip for the correct ink type. Image: "Registering the Ink IC Chip"(P. 42)
Ink Color	 A different ink color is registered on the ink IC chip. 	 Insert an ink IC chip for the correct ink color. I Registering the Ink IC Chip"(P. 42)
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. 42)
		Turn off the main power and wait a while before turning back on.
		 Replace with new ink. ⁽²⁾ "When Ink End is Displayed"(P. 37)
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.
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		

Error number	Message	Cause	Corrective action
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	Supply.	
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		
1e6	PRAM Size Shortage	Insufficient memory	 Turn off the power on the machine and turn it on after a while.
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. 32) Use a compliant USB cable. "USB Connection Precautions"(P. 32)
202	Parameter Error	 A problem was detected with the print (RIP) data received. 	4. 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. 32) 2. Use a compliant USB cable. I USB Connection Precautions"(P. 32)
			 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. ⁽²⁾ "Loading the Modia"(P. 53)
402	Motor Y	The Y motor was overloaded.	Media"(P. 53)

Error number	Message	Cause	Corrective action
403	X Current	An overcurrent error was detected in the X motor.	 Open the front cover and check for anything that may obstruct carriage movement.
404	Y Current	An overcurrent error was detected in the Y motor.	 Turn off the power on the machine and turn it on after a while.
406	Wiper Move Failure	 Wiper-origin could not be detected. 	 Clean the wiper and around the wiper. "Wiper Cleaning"(P. 92)
			2. 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. I contain the Roll Media"(P. 56)
			 Check to confirm the take-up unit switch functions properly. Take-up unit"(P. 53)
48a	Detect winding failure	 The take-up unit is unable to take up media. 	 Check to confirm the media is loaded correctly. I "Loading the Roll Media" (P. 56)
504	CLAMP UP	• The clamp lever is lifted.	Lower the clamp lever.
505	Media Jam	 The media jam sensor was triggered. 	 Remove the media in contact with the carriage and reload with fresh media. "Loading the Media"(P. 53)
			 Open the front cover and check for anything that may obstruct carriage movement.
509	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. 53)
		detection.	2. Clean the media width sensor. "Media Sensor Cleaning"(P. 98)
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.
516	Media Set Position R	The media was loaded outside the range of valid	1. Check the media loading position. "Loading the Media"(P. 53)
		positions.	 Clean the media width sensor. "Media Sensor Cleaning"(P. 98)
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. 38)

Error number	Message	Cause	Corrective action
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. Tregistering the Ink IC Chip"(P. 42) Turn off the power on the machine and turn it on after a while. Replace with new ink. Treplacing
64C	NCU Error	The function is disabled	Ink"(P. 38) • Turn off the power on the machine
		due to an error.	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. ಚ "NCU
653	NCU Nzk Chk (Mark)	with the nozzle clogging assessment.	Cleaning"(P. 95)
654	NCU Center Pos	Printing position	
655	NCU Flush Pos	adjustment failed.	
656	NCU SN Adjst	 Sensor sensitivity adjustment failed. 	
657	Replace NCU lnk Pad	The NCU ink absorber is full.	 The NCU ink absorber must be replaced. Contact your local distributor, our sales office, or service center.
658	NCU Sensor Lv Low	The sensor's sensitivity is impaired.	 Clean the NCU. I "NCU Cleaning"(P. 95)
65b	NCU Sens Adj Err H	Sensor sensitivity	Replace the NCU if the error does not clear. Contact your local
65c	NCU Sens Adj Err L	adjustment failed.	distributor, our sales office, or service center.
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.
b1b	BaselO 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		
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.

Error number	Message	Cause	Corrective action
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. 🖓 "Wiper Cleaning"(P. 92)
		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 X: 600 dpi, 900 dpi, 1,200 dpi	
Ink set	4-color	BL, M, Y, K	
Media	Туре	Transfer paper	
	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}	Feeding unit: max. 250 mm Take-up unit: max. 250 mm * Max. 200 mm when the edge guide is attached	
	Roll weight ^{*2, *3}	Max. 45 kg	
	Paper core internal diameter ^{*4}	2 inches or 3 inches	
	Printing face	Exterior	
	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	larity	±0.5 mm/1,000 mm	
Media skew	,	Not more than 5 mm/10 m	
Printing gap)	Manual, two settings (3.0, 3.5 mm)	
Media cuttir	ıg	Cutting precision (steps): Not more than 0.5 mm	
Origin align	ment	LED pointer	
Ink supply		Ink bottle	
Maintenance liquid feed		Cartridge	
Waste Ink Tank		Bottle type (2,000 ml)	
Take-up unit		Selectable inside/outside winding	
Media heate	er	N/A	
NCU (Nozzl detection)	le clogging	Provided	
UV unit		N/A	

	Item	Details	
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), CB certified, RoHS, 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 consumpti	Maximum ^{*7}	250W or less	
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}	168 kg (215kg)

*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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