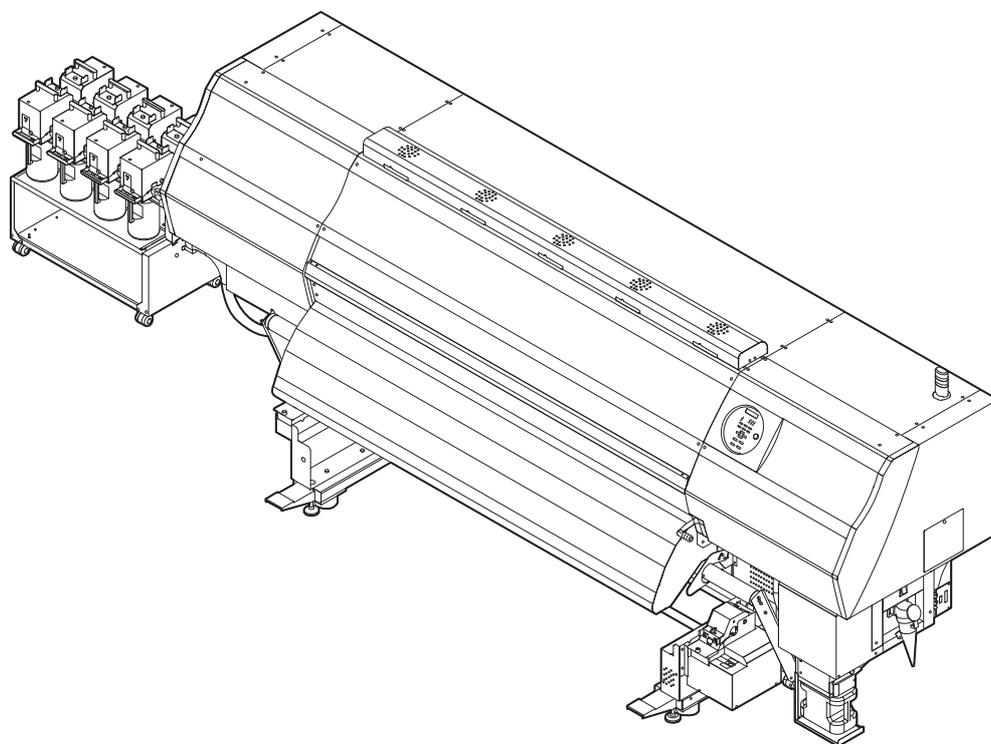**Mimaki**™

COLOR INKJET PRINTER

TS500-1800

OPERATION MANUAL

> **You can also download the latest manual from our website.**

MIMAKI ENGINEERING CO., LTD.

URL: http://mimaki.com/

OPERATION MANUAL

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Chapter 4   Maintenance

Chapter 5   Troubleshooting

Chapter 6   Appendix

CAUTION

DISCLAIMER OF WARRANTY

THIS LIMITED WARRANTY OF MIMAKI SHALL BE THE SOLE AND EXCLUSIVE WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS, AND MIMAKI NEITHER ASSUMES NOR AUTHORIZES DEALER TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY OR MAKE ANY OTHER WARRANTY OR MAKE ANY OTHER WARRANTY IN CONNECTION WITH ANY PRODUCT WITHOUT MIMAKI'S PRIOR WRITTEN CONSENT.
IN NO EVENT SHALL MIMAKI BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR LOSS OF PROFITS OF DEALER OR CUSTOMERS OF ANY PRODUCT.

Requests

- This Operation manual has been carefully prepared for your easy understanding.
  However, please do not hesitate to contact a distributor in your district or our office if you have any inquiry.
- Description contained in this Operation manual are subject to change without notice for improvement.

FCC Statement (USA)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the Operation manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
In the case where MIMAKI-recommended cable is not used for connection of this device, limits provided by FCC rules can be exceeded.
To prevent this, use of MIMAKI-recommended cable is essential for the connection of this printer.

Interference to televisions and radios

The product described in this manual generates high frequency when operating.
The product can interfere with radios and televisions if set up or commissioned under improper conditions.
The product is not guaranteed against any damage to specific-purpose radio and televisions.
The product's interference with your radio or television will be checked by turning on/off the power button of the product.
In the event that the product is the cause of interference, try to eliminate it by taking one of the following corrective measures or taking some of them in combination.
- Change the orientation of the antenna of the television set or radio to find a position without reception difficulty.
- Separate the television set or radio from this product.
- Plug the power cord of this product into an outlet which is isolated from power circuits connected to the television set or radio.

Foreword

Congratulations on your purchase of MIMAKI color ink jet printer "TS500 Series" .
"TS500 Series" is a color inkjet printer that can print with Sublimation dye ink realizing high speed and high image quality.

About usable ink

Usable ink for this machine is Sublimation dye ink (four-color / six-color model).

- 4-colors version   : 2 each of Blue, Magenta, Yellow and Black color ink bottle are use.
- 6-colors version   : 1 each of Blue, Magenta, Yellow, Black, Light blue and Light magenta color ink bottle
                                (2 each of Yellow and Black only) are use.

On This Operation manual

- This Operation manual is describing the operations and maintenance of "Color inkjet printer TS500 Series" (called as this machine hereafter)
- TS500-1800 is identical with models SGPR656-180.
- Read this Operation manual carefully and understand them thoroughly to use.
- It is also necessary to keep this Operation manual on hand.
- This Operation manual has been carefully prepared for your easy understanding, however, please do not hesitate to contact a distributor in your district or our office if you have any inquiry.
- Descriptions contained in this Operation manual are subject to change without any notice for improvement.
- You can also download the latest manual from our website.

Safety Precautions

Symbols

Symbols are used in this Operation Manual for safe operation and for prevention of damage to the machine.
The indicated sign is different depending on the content of caution.
Symbols and their meanings are given below. Please follow these instructions as you read this manual.

Examples of symbols

	Meaning
Warning	Failure to observe the instructions given with this symbol can result in death or serious injuries to personnel. Be sure to read it carefully and use it properly.
Caution	Failure to observe the instructions given with this symbol can result in injuries to personnel or damage to property.
(Important!)	Important notes in use of this machine are given with this symbol. Understand the notes thoroughly to operate the machine properly.
	Useful information is given with this symbol. Refer to the information to operate the machine properly.
	Indicates the reference page for related contents.
	The symbol " △ " indicates that the instructions must be observed as strictly as the CAUTION instructions (including DANGER and WARNING instructions). A sign representing a precaution (the sign shown at left warns of hazardous voltage) is shown in the triangle.
	The symbol "○" indicates that it is the forbidden action. If there is a concrete instruction, it is indicated in or around the symbol "○ ".
	The symbol "●" indicates that the action is forced to be done or the instruction must be observed. If there is a concrete instruction, it is indicated in the symbol "●".

Warning for Use

⚠ **WARNING**
• Do not use the machine in a poorly ventilated room or a closed room.   • Take care not to damage, break or work upon the power cable. If a heavy material is placed on the power cable, or if it is heated or pulled, the power cable can break, thus resulting in fire or electric shocks.   • Avoid locating the machine in a damp environment. Do not splash water onto the machine. Use in such an environment can give rise to fire, electric shocks or breakdown of the machine.   • Use it with the displayed power supply specifications. The power-supply voltage of this machine shall be single-phase 200 to 240 Vac 20 A and less. (You cannot use this machine in the 100V system.)   • Use of the machine under an abnormal condition where it produces smoke or strange smell can result in fire or electric shocks. If such an abnormality is found, be sure to turn off the power button immediately and unplug the cable from the wall outlet. Check first that the machine no longer produces smoke, and then contact your distributor or a sales office of MIMAKI for repair. Never repair your machine and ink bottle by yourself since it is very dangerous for you to do so.   • Never disassemble or remodel the main unit of the machine or the ink bottle. Disassembly or remodeling can result in an electric shock or breakdown of the machine.   • Take care that no dust or dirt sticks to platen heaters. Dust and dirt sticking heaters can cause fire.
Hazardous Moving Parts   Keep Fingers and Other Body Parts Away

Precautions in Use

⚠ **CAUTION**	
Power supply	**Handling of the power cable**
• Leave the breaker turned ON. • Do not turn off the main power switch on the right side of this machine.	• Use a power cable attached to this unit. • Take care not to damage, break or work on the power cable. If a heavy matter is placed on the power cable, heated or drawn, the power cable can break to cause fire or electric shocks. • Connect to a socket-outlet with determinate polarity.
Heater	**Handling of ink**
• Do not spill liquid on the platen as this may cause failure of the heater or firing. • Do not touch platen heaters with bare hand while it is hot; otherwise, you can get burned.	• If you get ink in your eyes, immediately wash your eyes with a lot of clean water for at least 15 minutes. In doing so, also wash eyes to rinse ink away completely. Then, consult a doctor as soon as possible. • If anyone drinks ink by mistake, keep him or her quiet and see a doctor immediately. Do not allow him or her to swallow the vomit. After that, contact the Poison Control Center. • If you inhale a lot of vapor and feel bad, immediately move to a location of fresh air and then keep yourself warm and quiet. Then, consult a doctor as soon as possible.
Note on maintenance	
• When cleaning the External ink supply unit or the heads, make sure to wear the attached gloves.	

CAUTIONS and NOTES

⚠ Warning

Handling of ink bottles	Front cover and lever
• Use the TS500 genuine ink. Remember that the user shall be filled for a repair to correct any damage resulting from the use of ink other than the exclusive type. • The machine does not operate with any ink other than the TS500 genuine ink. • Do not use the TS500 genuine ink with other printers, as doing so may cause damage to such machines. • If the ink bottle is moved from a cold place to a warm place, leave it in the room temperature for three hours or more before using it. • Open the ink bottle just before installing it in the machine. If it is opened and left for an extended period of time, normal printing performance of the machine may not be ensured. • Make sure to store ink bottles in a cool and dark place. • Store ink bottles and waste ink tank in a place that is out of the reach of children. • Be sure to thoroughly consume the ink in the ink bottle, once it is opened, within three months. If an extended period of time has passed away after opening the ink bottle, printing quality would be poor. • Neither pound the ink bottle nor shake it violently, as doing so can cause leakage of ink. • Do not touch or stain the contacts of the IC chip, as doing so may cause damage to the print circuit board. • Waste ink is equivalent to waste oil of industrial waste. Request an industrial waste disposal company for disposal of waste ink.	• Never open the front cover or raise the lever during printing. Opening the cover or raising the lever will abort printing.
	Handling of media
	• Use media recommended by MIMAKI to ensure reliable, high-quality printing. • Set the temperature of the Print heater and Post-heater according to the type and characteristics of the media used. Automatic temperature setting can be made on the operation panel by setting the profile on the dedicated RIP. For setting on the RIP, refer to the instruction manual for your RIP. • Pay attention to the expansion and contraction of the media. Do not use media immediately after unpacking. The media can be affected by the room temperature and humidity, and thus it may expand and contract.The media have to be left in the atmosphere in which they are to be used for 30 minutes or more after unpacked. • Do not use curled media. The use of curled media can not only cause a media jam but also affect print quality. Straighten the sheet of media, if significantly curled, before using it for printing. If a regular-sized coated sheet of media is rolled and stored, the coated side has to face outside. • Do not leave the media with the heater ON for a long time.
	Protection of media from dust
	• Store media in a bag. Wiping off dust accumulated on media will adversely affect the media due to static electricity. • When leaving the workshop after the working hours, do not leave any media on the roll hanger. If any media is left on the roll hanger, it can get dusty.

⚠ Warning

Notes on maintenance

• It is strongly recommended to use the machine in a room that is not dusty.
• Keep the front cover closed even when the machine is not printing. If not, dust can accumulate on the nozzles in the heads.
• Dust in the heads can also cause drops of ink to fall suddenly down on the media during printing. In such a case, be sure to clean up the heads. (P.4-14 "Cleaning the Head and the Area around It")
• When cleaning the ink-station or the heads, make sure to wear the attached gloves.
• Perform wiping (removal of dust and paper powder) of the capping station and wiper frequently.

Periodic replacement parts

• Some parts of this machine must be replaced with a new one periodically by service personnel. Be sure to make a contract with your distributor or dealer for After sale service to ensure a long life of your machine.

Disposition of this machine

• When discarding this machine, request the treatment of it for an industrial waste disposal contractor.
• Treat it properly in compliance with regulation in the local area.

Cautions on Installation

<table>
<tr><td colspan="3" align="center">⚠ CAUTION</td></tr>
<tr>
<td>A place exposed to direct sunlight</td>
<td>On an inclined surface</td>
<td>A place where temperature or humidity varies significantly</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Use the machine under the following environmental conditions:
• Operating environment:
20 to 30 °C (68 to 86 °F)
35 to 65 % (Rh)</td>
</tr>
<tr>
<td>A place that vibrates</td>
<td>A place exposed to direct air flow from an air conditioner or the like.</td>
<td>Around a place where fire is used</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A place with much dust</td>
<td>A place with chemicals around</td>
<td></td>
</tr>
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<td></td>
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<td></td>
</tr>
</table>
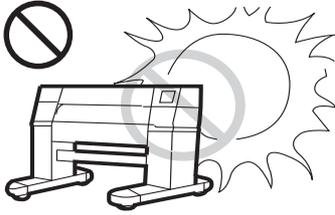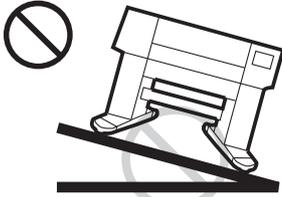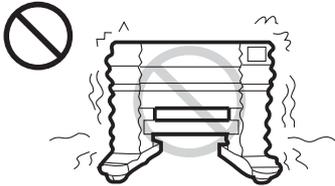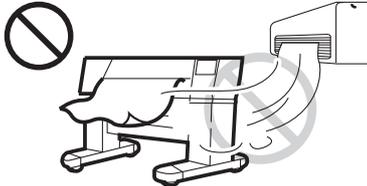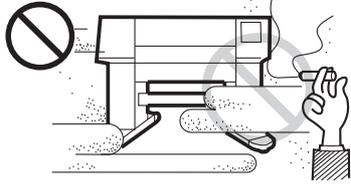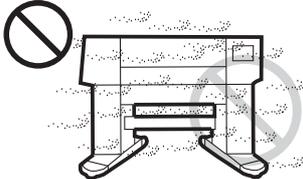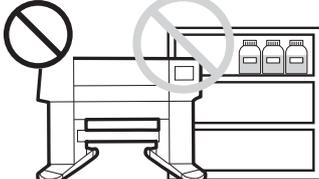
Safety interlock

This machine is equipped with interlocks to terminate the operation for your safety when the cover opens during printing etc. (red circle parts in the figure below).
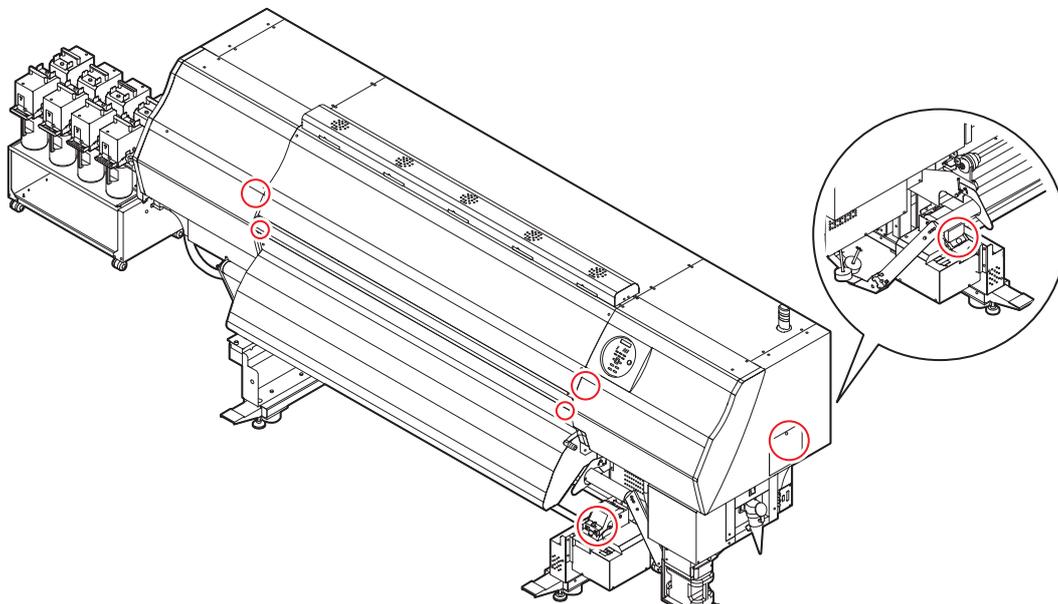
Chapter 1
Before Use

This chapter

describes the items required to understand before use, such as the name of each part of the machine or the installation procedures.

About installing this machine

Where to Install This Machine

Secure a suitable installation space before assembling this machine.
The place of installation must have enough space for not only this machine itself, but also for the printing operation.

Model	Width	Depth	Height	Gross weight
TS500-1800	3830mm	1440mm [*1]	1700mm	750kg
External ink supply unit	775mm	490mm	785mm	30kg

*1. When the tension bar is flat
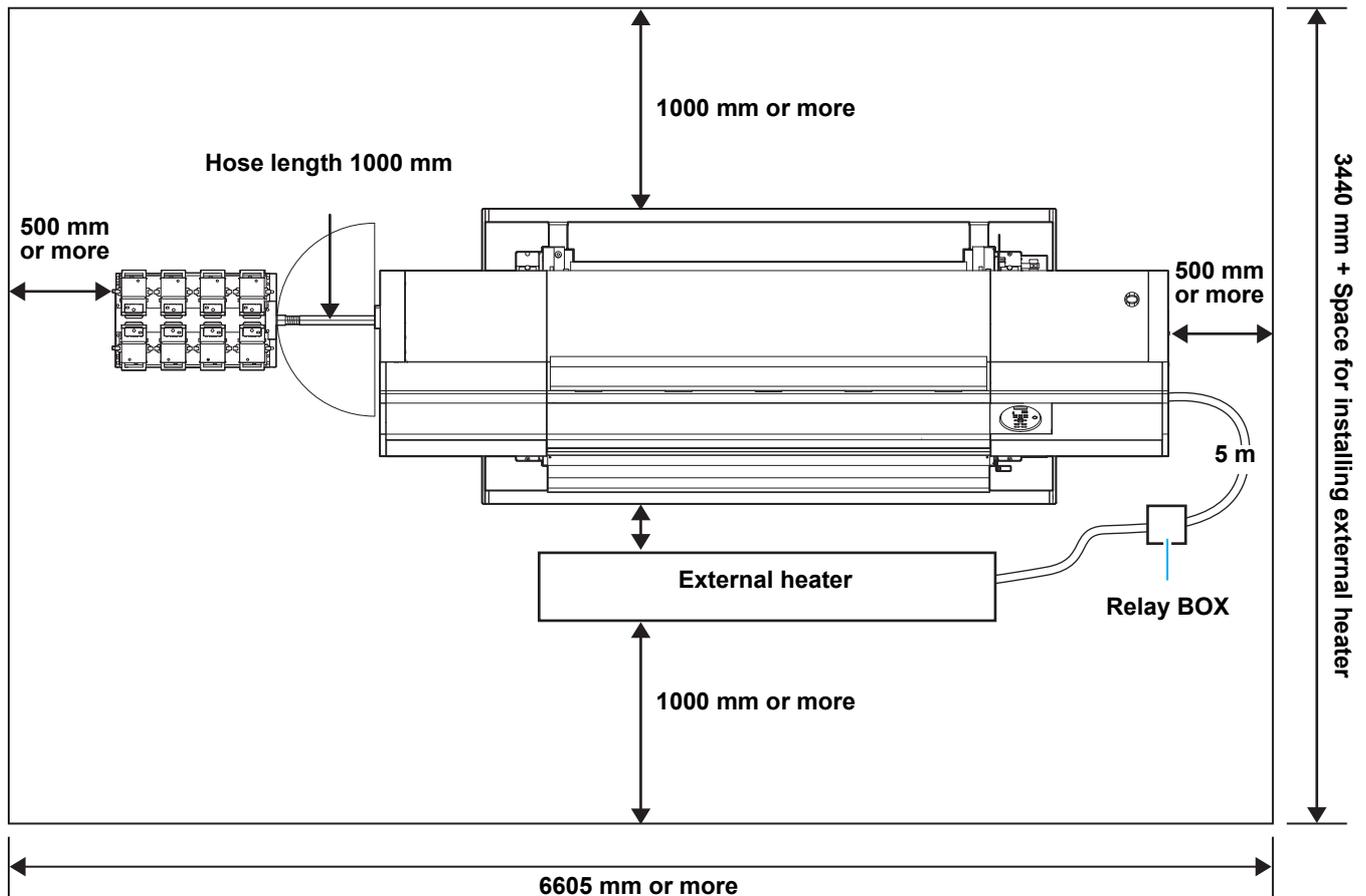
Important!
- The external heater is not attached to this machine. It is necessary to prepare it separately.
- Install the external heater in the proper place considering the usage environment and the specifications of the external heater.

Working Environmental Temperature

Use this machine in an environment of 20 to 30°C to ensure reliable printing.
The heater temperature may not reach the set value, depending on the ambient temperature.

1-2

About fixing machine

The leg of this machine has the level foot to fix the machine.
Before turning the power ON, make sure that the printer body is fixed with the leveling feet. The printer body may start moving during operation if it is not fixed with the leveling feet.
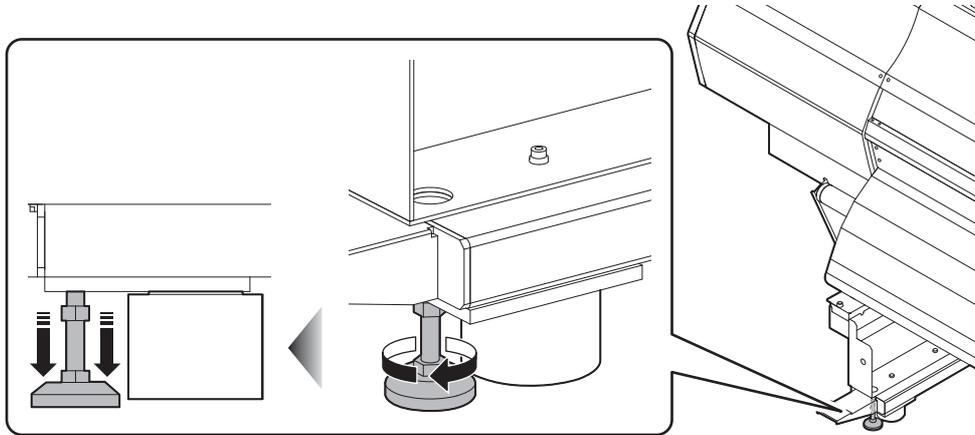
• Put the supplied iron base plate (black) between each leveling foot and the floor. To hold the weight of the printer, using plate is recommended.

Moving This Machine

(Important!) • When the machine is moved to any place other than on the same step-free floor, contact your distributor or our service office.
If you move it by yourself, failure or damage may occur.
Be sure to request your distributor or our service office to move this machine.

Names of Parts and Functions

Front Side of the Machine

Platen
The printed media is sent out, sliding on the platen. Three heaters are installed inside the platen.

Print heater/ Post①-heater/ Post②-heater
Fixes and dries the ink on the currently produced print. (Located inside the platen)

Left maintenance cover
Open the cover in maintenance.
Even when the power button is off, keep all covers closed.

Front cover
Open the cover in setting of medias, taking of measures against jamming of medias or in maintenance inside the station.
Even when the power button is off, keep this cover and the other covers closed.

External ink supply unit
Set the ink bottle.

Operation panel
This panel has the operation keys required for operating the machine and the LCDs for displaying setting items, etc.

Ink bottle
Each bottle contains an ink of a particular color.

Right maintenance cover
Open the cover in maintenance.

Stand
Supports the main body of the machine.

Waste ink tank
Waste ink gathers in this tank.

Clamp lever (front)
Moves the pinch rollers up and down to hold or release the media.

Take-up device
Take up the output drawn with a roll medium automatically.

Rear Side and Right Side of the Machine
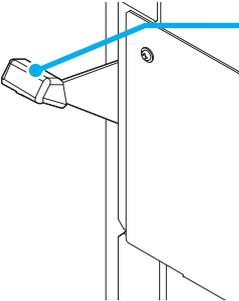
Clamp lever (rear)

Interlocks with the clamp lever in the font of this machine.
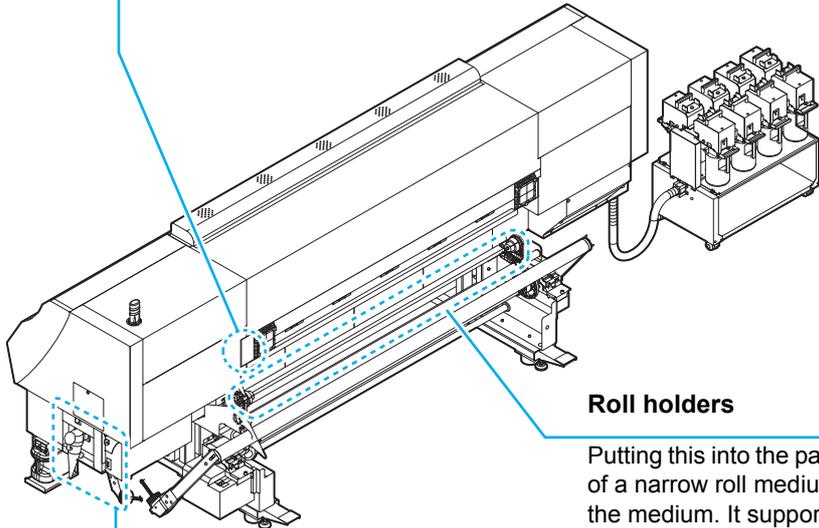
Roll holders

Putting this into the paper core (right and left) of a narrow roll medium (less than 1m), hold the medium. It supports the paper core of 2 inch and 3 inch.

Main power switch

Turns on/off the main power for this machine. Leave the main power turned on to prevent ink clogging.

AC inlet

Connect the power cable to the AC inlet.

USB 2.0 connector

This is USB2.0 interface connector.

LAN connector

Please use this connector when you use event mail function.

1

Before Use
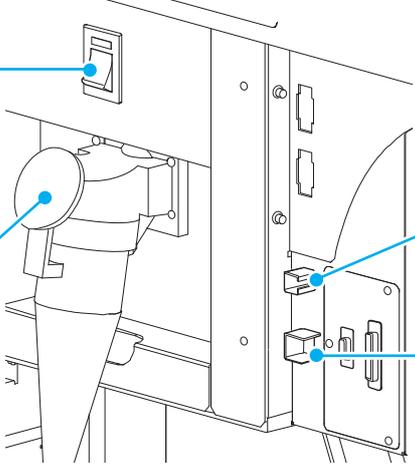
Operation Panel

Use the operation panel to make settings for printing or operate this machine.

CONSTANT lamp
Lights in green when the heater temperature reaches the set temperature.

HEAT lamp
Lights in orange during heating up of the heater.

ACTIVE lamp
When the power supply is turned on, it lights.

Display
Displays the status of the machine, set items and errors.
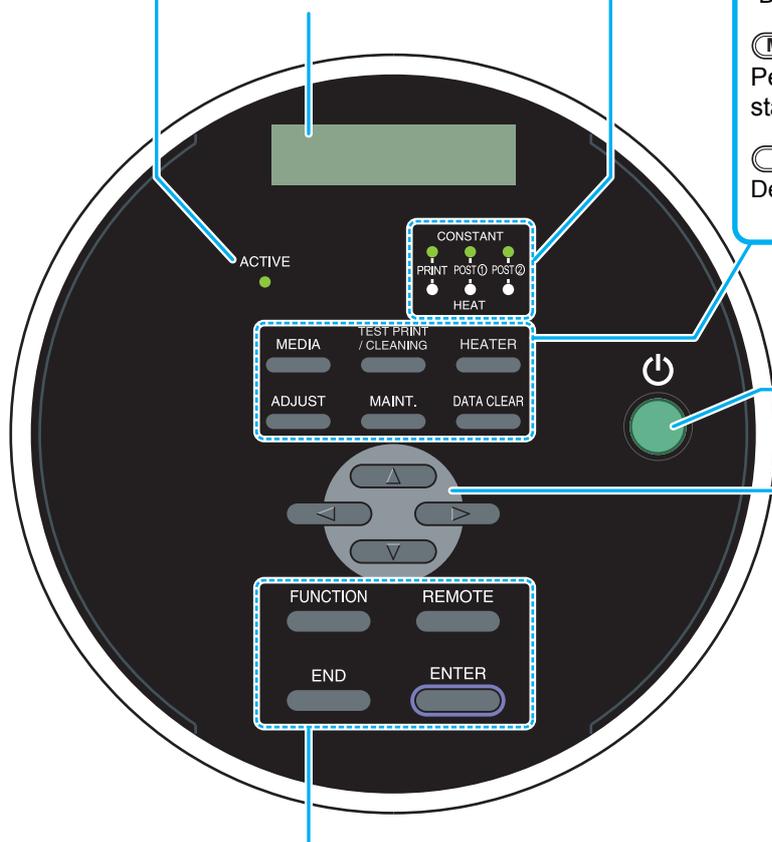
(MEDIA) **key**
Use this when setting media cut and the head gap.

(TEST PRINT/CLEANING) **key**
Draws test patterns to check if there are any drawing failures such as ink clogging.
Or executes Head cleaning at ink clogging.

(HEATER) **key**
Use this key to set the temperatures of the Print-heater and Post-heater ①② or check the current temperature of the platen.

(ADJUST) **key**
Performs the adjusting function such as "Drop.POScorrect" and "Feed COMP."

(MAINT.) **key**
Performs the maintenance function such as station maintenance.

(DATA CLEAR) **key**
Deletes the data that have been received.

power button *1
Turns on/off the power to the machine.

JOG key (◄) (►) (▲) (▼)
Use these keys to shift the carriage or the media in [LOCAL]. Also use them to select an item of printing conditions.

(FUNCTION) **key**
Use this key to display function setting menu.

(END) **key**
Cancels the last input value or returns the setting menu to the immediate higher level of the hierarchy.

(REMOTE) **key**
Use this key to switch between [REMOTE] and [LOCAL].

(ENTER) **key**
Registers the last input value as the setting value or goes to the immediate lower level of the hierarchy.

*1 : When the power supply button is turned ON, it lights in green, and when it is OFF, it goes out. The ink clogging prevention function is periodically operated even when the power button is OFF if the main power switch keeps being ON. (Auto maintenance function) ☞ P.1-5

Heater

Print heater and Post-heater ①② are equipped on the platen.

Print-heater	Improves the image quality in printing.
Post-heater ①	Dries ink after printing. When you control cockling, turn OFF the Post-heater ①) and use the Post-heater ②) only,
Post-heater ②	or, set the temperature of the Post-heater ①) lower than that of the Post-heater ②). If you put the priority on drying ink, turn ON both heaters and use.

⚠️ **Caution**
- While the heater is on, the platen is very hot.When the front cover is to be opened or media is to be replaced, lower the heater temperatures and wait until the platen temperature drops;otherwise, you can get burned.
- When the media is to be replaced with a thin one, lower the heater temperatures and wait until the platen temperature drops adequately.Setting a thin sheet of media while the platen is hot may cause the media to stick to the platen or cause wrinkling or curling of the media.
- Do not heat the media for a long time with the heater in the status not performing printing. The media surface may float as wave, and it may be the cause of the head rubbing the media.
  If the media floats as wave, press the (▼) button on the operation panel to feed the media, or, perform test feeding (P.2-28).

Post-heater②   **Post-heater①**   **Print heater**
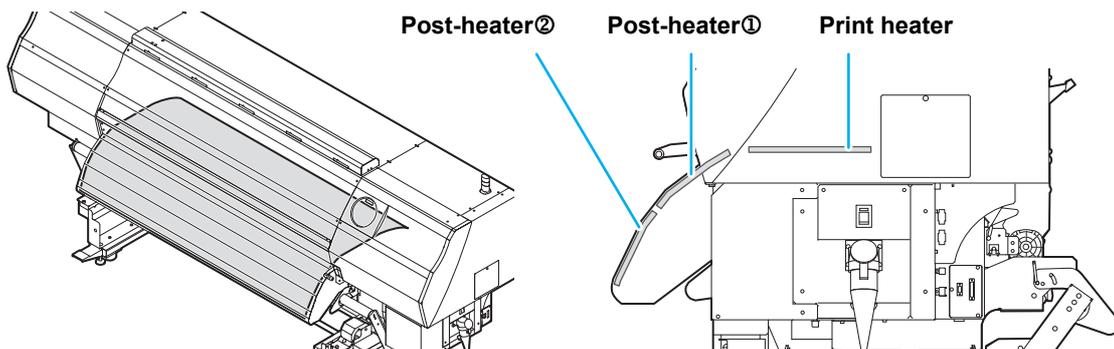
Media sensor

The media sensor detects the presence of the media and the media length.
This machine has two media sensors on the platen (in the rear).

Important!
- When setting a medium, be sure to cover either of the medium sensors located on the rear of the platen.
  The media cannot be detected unless it is placed over the sensor.

Media sensor

1

Before Use
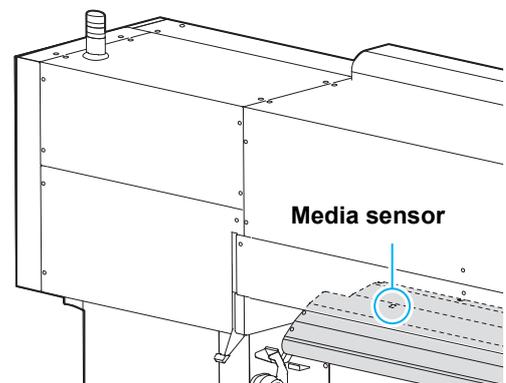
Carriage

The carriage is provided with the heads for printing, the cutter unit for cutting off the sheet of media, etc.
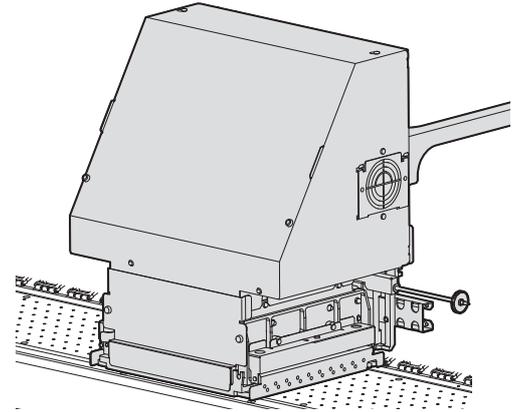
Cutter blade and slot for cutting

The carriage is provided with a cutter unit for cutting off the media that has been printed on.
The cutter cuts off the sheet of media along the slot for cutting on the platen.
The cutter blade is consumables. If it gets dull, replace it with new one.   (☞ P.4-28)
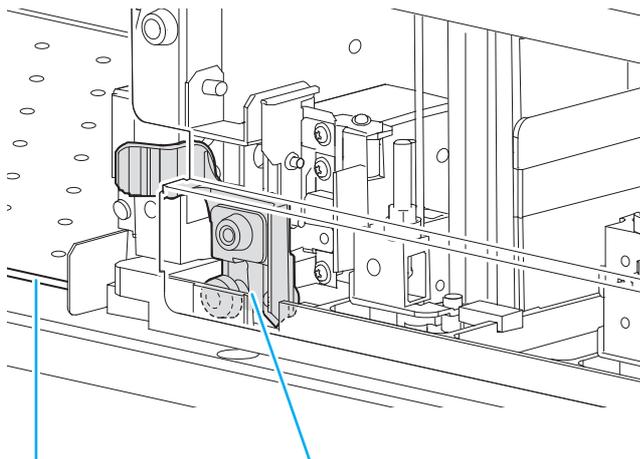
slot for cutting   **Cutter unit**   **Cutter blade**
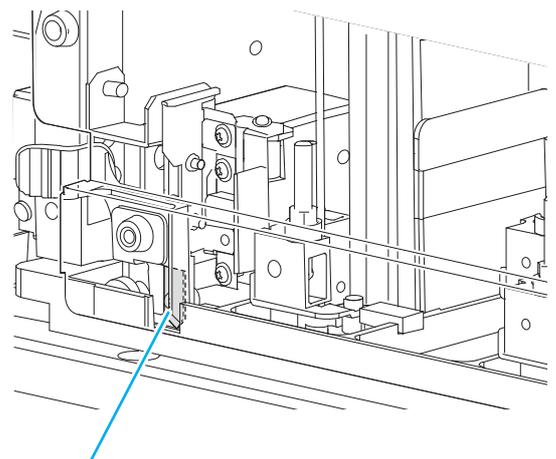
Indicator

Functions of the Indicator on the top right of this unit are described here.
The indicator has a green and a red lamp.

Red
Green

Color of lamp	State of lamp	State of machine
Green	Lighting	REMOTE
	Blinking	REMOTE (printing)
	Off	LOCAL
Red	Lighting	Error has occurred (system down)
	Blinking	Error or warning has occurred
	Off	Normal
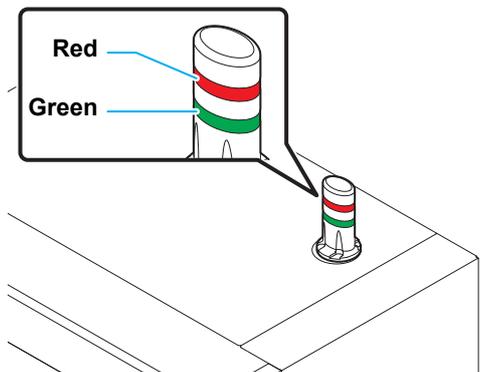
Capping station

> • Be sure to wear the attached goggles in cleaning within the capping station to protect your eyes against ink. Otherwise, you may get ink in your eyes.

The capping station consists of the ink caps, the wiper for cleaning the heads, etc.
The ink caps prevent the nozzles in the heads from drying up.
The wiper cleans the nozzles in the heads.
The wiper is consumable.If the wiper is deformed or the media is stained, replace the wiper with a new one. (☞ P.4-25)
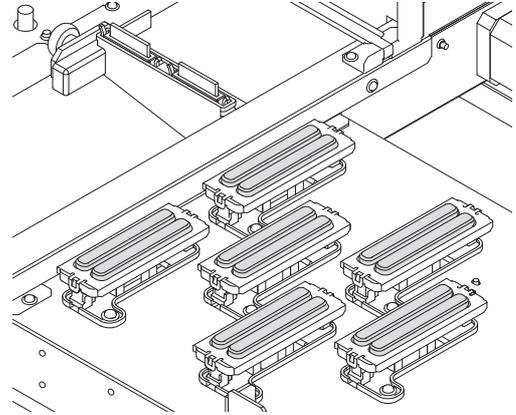
Pinch rollers and Feed rollers

> (Important!) • Keep the pinch rollers lifted up when this machine is not in use. If the pinch rollers are left lowered for an extended period of time, they can be deformed and fail to securely retain the media.

This machine retains the media with the pinch rollers and feed rollers. During printing operation, the feed rollers feed the media forward.

Pinch roller

Feed roller

1

Before Use
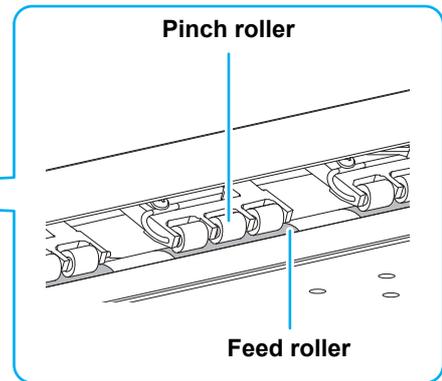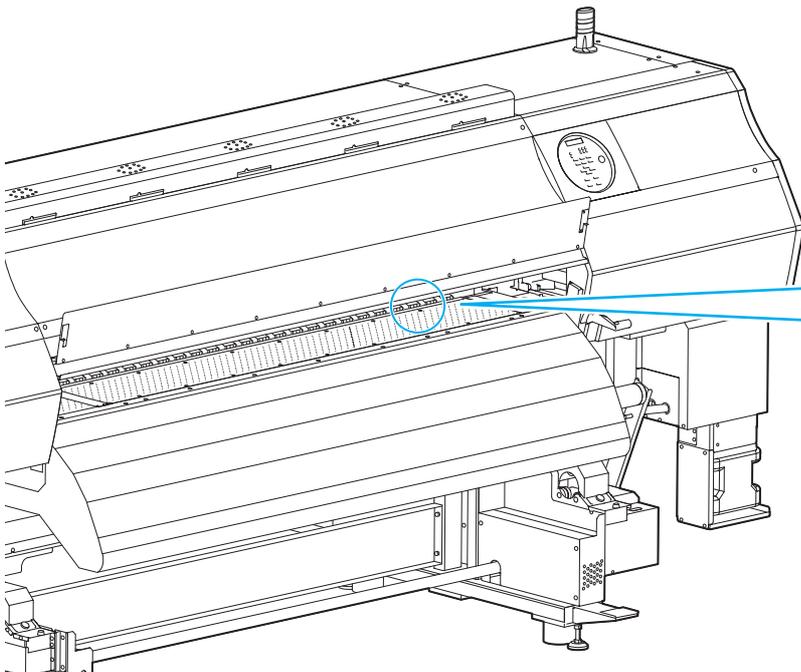
Connecting Cables

Connecting USB2.0 Interface Cable

Connect the PC and this machine with the USB2.0 interface cable.

⚠ Caution

- Your RIP must be compatible with USB 2.0.
- Contact a RIP maker near your location or our office when the USB2.0 interface is not attached to the PC.

USB cable
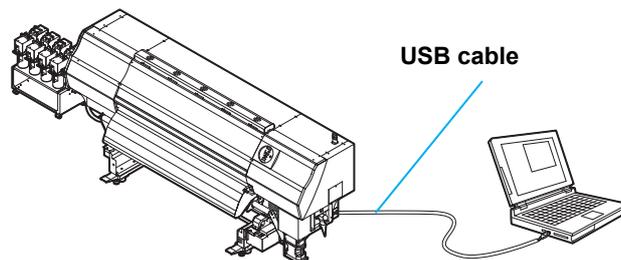
Notes on USB 2.0 Interface

Important!

- Your RIP must be compatible with USB 2.0.

● **When two or more TS500 machines are connected to one personal computer**

When two or more TS500 machines are connected to one personal computer, the personal computer may not recognize all the TS500 machines normally.
Reconnect the unrecognized TS500 machine to another USB port, if available, and check to see if it is recognized.If the TS500 machine is not recognized by the newly connected USB port, use USB 2.0 repeater cables available on the market.

USB 2.0 repeater cable
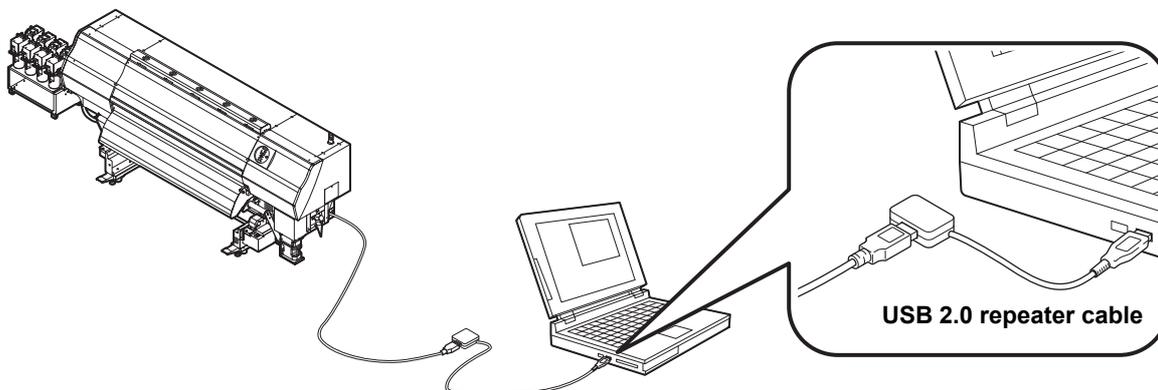
● **Notes on peripheral devices in USB high speed mode**

When a peripheral device (USB memory or USB HDD) to be operated in USB high speed mode is connected to the same personal computer that a TS500 machine is connected to, the USB device may not be recognized.
When TS500 is connected to the personal computer to which an external HDD is connected via USB, the speed of data output to TS500 may drop.That can cause the head unit to stop temporarily at the right or left end during printing.

● **Removing USB memory**

If a USB memory module is inserted in the personal computer to which a TS500 machine is connected, click "Stop" in the "Safely Remove Hardware" window by following the instructions given there first and then remove the module.
Leaving a USB memory module inserted can cause [ERROR 201 COMMAND ERROR].
Copy the data onto the hard disk before outputting it for printing.
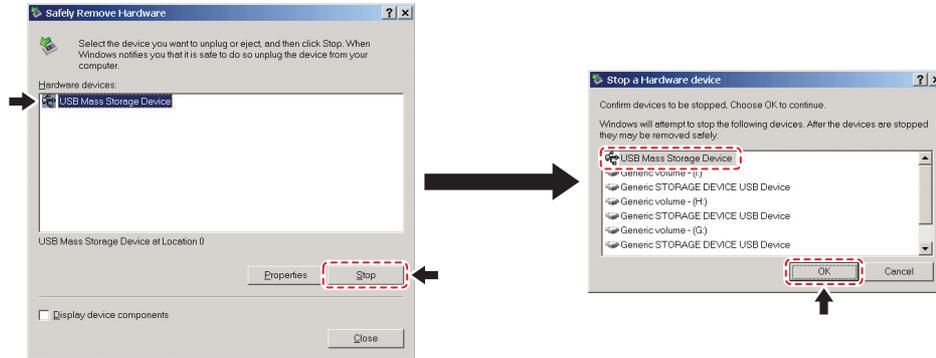
Connecting Power Supply Cable

You are not allowed to install the printer by yourself. Be sure to request MIMAKI's service personnel and an electrician to install the printer.

⚠ Warning
- The power supply specifications of this machine is as below:
  Single-phase 200 to 240 Vac 20 A or less (cannot be used with 100 V system)
- For the power supply to the main body of the printer, electrical work is required as described below. Request an electrician to perform electrical work.
  Socket installation onto the circuit breaker
  Grounding work
- Ensure that a wall outlet is available near the printer. Also ensure that the power cable can be easily unplugged whenever necessary.
- To prevent electrical shock hazard, it is prohibited for anyone other than electrician licensees to perform the electrical work for this printer.
- Take care not to miswire, which can result in a fire or an electric shock.

⚠ Caution
- When any power cable other than the supplied one is to be used, make sure that the cable is equivalent to one of the following types. Connect the cable as shown below.
  VCT-5.5m m^2 x33 cores (600 V)
  UL-AWG10x3C (600V)

For power supply connection, this printer uses the Type B plug and socket in compliance with IEC 60309.
When a socket construction meeting the plug of the power cable of this printer is required, use the supplied socket and perform construction between your switchboard and the socket.

Socket construction

Side of the printer body

Socket

Socket construction

Switchboard

AC200V～240V

Supplied socket

Power cable: UL AWG10 or the equivalent

Switchboard

Circuit breaker
1φ 200V to 240V 30A

Neutral
Line
Ground

AC200V～240V
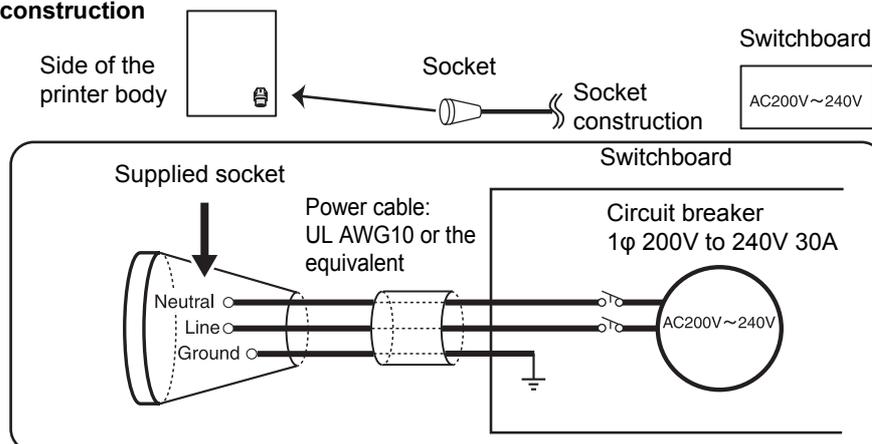
1

Before Use

Setting ink bottles

Set the ink bottle on the external ink supply unit.

1 Remove the ink cover.

- Remove both catches of the ink cover and remove the cover.
- The rear surface of the ink cover has the nozzle (stick shape) for ink absorption and the float sensor for detecting remaining amount of ink.

Catches

Nozzle

Float sensor
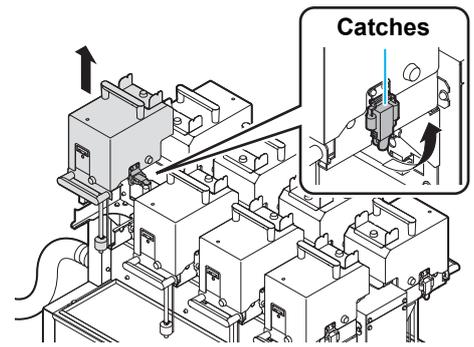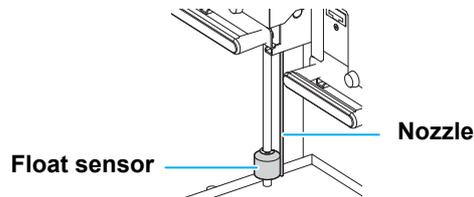
2 Put the removed ink cover on the ink cover of the rear surface side.

B part

Handle

A part

ink cover catch

Hook A part of lower part of the cover onto the rear surface ink cover catch.

Hook B part of cover rear surface onto the handle at the rear surface.
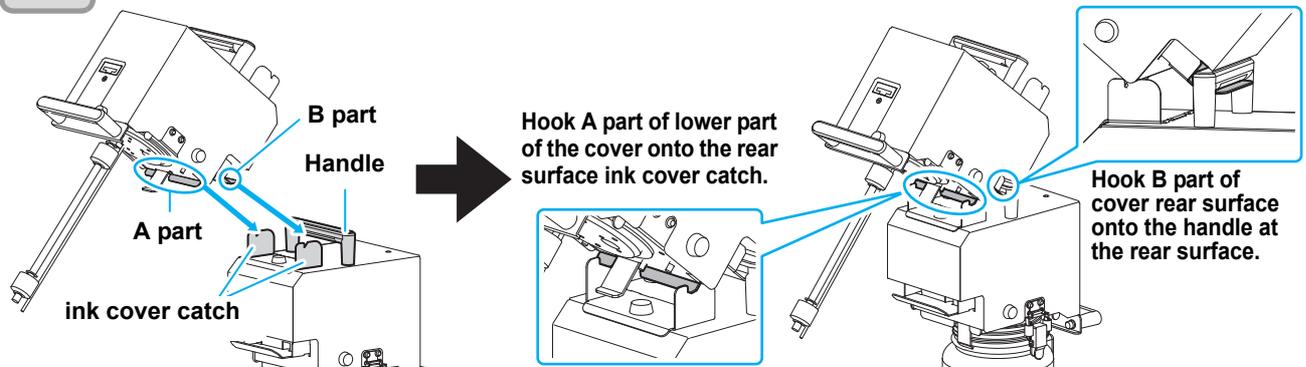
3 Take out the ink bottle, and slowly shake it twenty times and more.

- To prevent ink from leaking when you shake it, wear gloves and cover the ink bottle cap with a paper towel etc. Being in that status, slowly shake it twenty times and more by flowing ink.

  - If you shake it too strong, it may cause ink leakage. Therefore, perform this carefully.
  - If the remaining amount of ink is less, ink in the bottle cannot be beaten enough. Tilt the ink bottle until it becomes vertical.

Before shaking it, check that the cap is firmly closed.

Repeat this

Cover with paper towel firmly and shake ink slowly
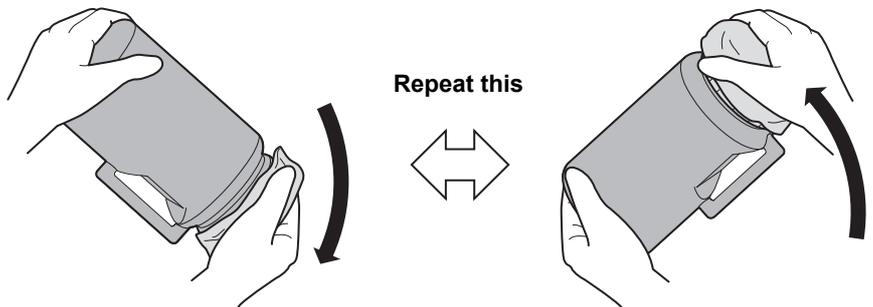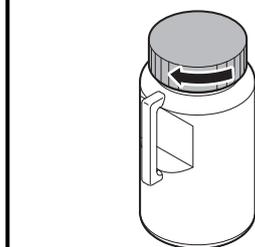
4 Remove the cap of the ink bottle.
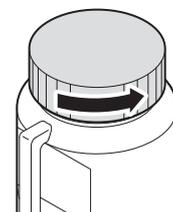
5 **Make slits in the top surface of the bottle as the figure, and push the aluminum sheet downward.**

• Use a cutter etc. to make slits in the top surface.

💡 **How to make slits**
• When you make slits in the aluminum sheet, divide it into eight parts as shown in the figure, or, cut off the aluminum sheet along the inner side of the bottle.

Divide into eight parts.
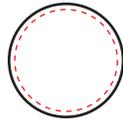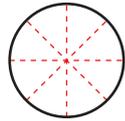
Cut off the inner side of the bottle (dotted-line part).
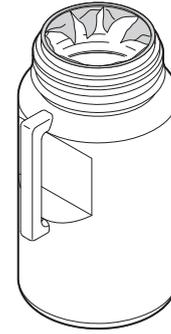
6 **Set the ink bottle on the bottle holder, and attach the ink cover.**

• Make the nozzle (stick shape) for absorbing ink and the float sensor for detecting remaining amount of ink so that they may be in the ink bottle.
• When ink plate gets dirty with ink etc., wipe it off with a waste cloth.

Catches

Ink plate
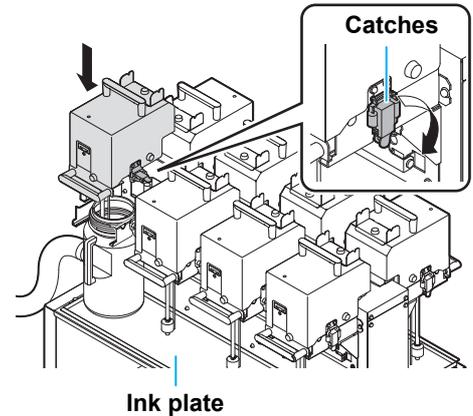
7 **Insert the IC chip.**

• Insert the IC chip with the surface with metal upward. If you insert the wrong side by accident, it causes faulty or damage of the IC chip.
• Do not touch the metal part of the IC chip. It may break the IC chip by static, or may cause read error by stain or flaw.
• For the setting orders of the ink bottles, refer to P.6-4.
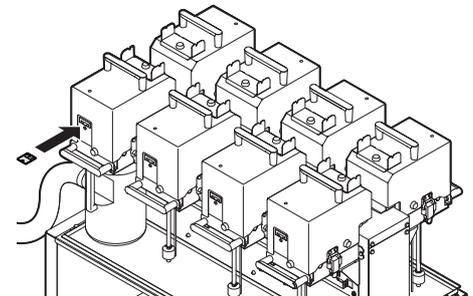
⚠️ **Important!** **About IC chip**
• The IC chip has information of ink color, remaining amount of ink, expiration data, etc.
  When setting the ink bottle, insert the IC chip packed with the ink bottle into the IC chip inserting port attached with the ink cover.
• If you set the IC chip not being the pair of the ink bottle, image quality defect etc. may occur.
• The mark indicating color information is pasted on the IC chip.

Ink color and indication mark

Ink color	Indication mark
Black	● (one black circle)
Blue	●● (one blue circle and one red circle)
Magenta	● (one red circle)
Yellow	○ (one yellow circle)
Light blue	●●● (two blue circles and one red circle)
Light magenta	●● (two red circles)

IC chip
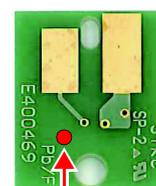
Mark indication position

Changing an ink bottle

Perform as follows when [INK END] or [INK NEAR END] is displayed on the display.

● **When [INK END] is displayed**

1

Remove the ink cover of the ink bottle to be changed, and remove the empty (used) ink bottle.

Catches

⚠ **Caution**

- Transfer any remaining ink into the new bottle. Make sure that no ink spills out from the ink bottle while doing so.
- When replacing the ink bottle, ink may spatter. Be careful not to get ink into your eyes.
- Before replacing the ink bottle, cover around it with a waste cloth etc. Ink may drop from the float part and may stain around the part.
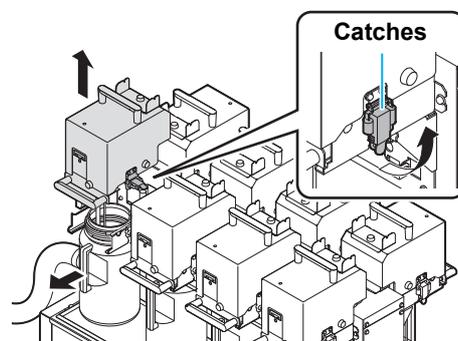
2

Check the up/ down movement of the float.

• If there is an abnormality on the float movement because dry ink adhered to it etc., perform the following procedures:

(1) Place a few drops of washing liquid on the upper part of the float.
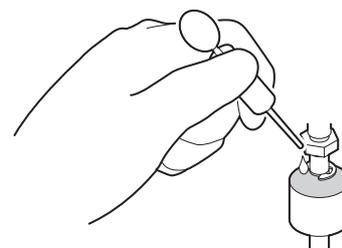
(2) Move the float up/ down to spread washing liquid evenly.
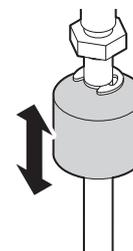
(3) When the float comes to move smoothly, wipe washing liquid adhering to the float and the pipe with a waste cloth etc.
- Move the float up/ down again and check that there is no abnormality.
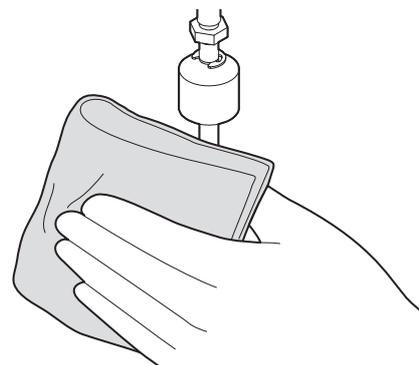
3

Remove the cap of the new ink bottle, make slits in the top surface of the bottle as shown in the figure, and push the aluminum sheet downward.

• For the way to make slits in the aluminum sheet, refer to the Step 5 of "Setting ink bottles" (☞ P.1-13).
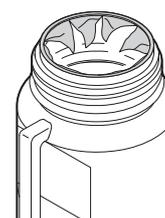
4 Set the ink bottle on the ink holder, and attach the ink cover.

Catches
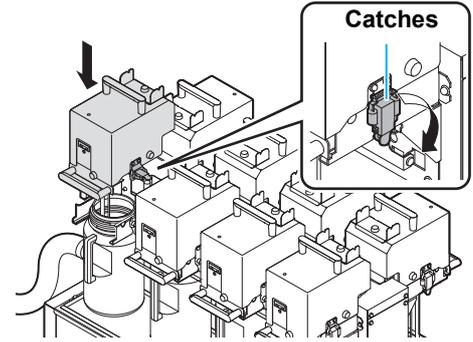
5 Insert the IC chip.
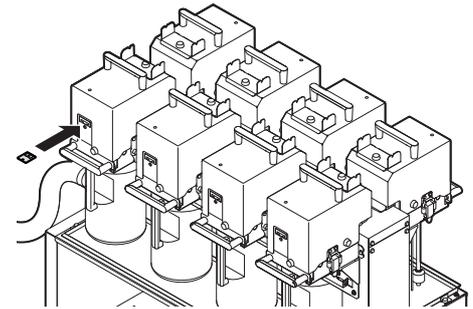
● **When [INK NEAR END] is displayed**

There is a little of ink left. It is recommended to replace the ink bottle soon since ink may become empty in printing while printing is continuously enabled.
When you press the (ENTER) key in LOCAL, you can check the bottle to be replaced in the local guidance. (☞ P.3-46)

(Important!) • There is approximately 200 cc of ink remaining in the bottle when [INK END] is displayed. Transfer the remaining ink into the new ink bottle when replacing the ink.

For Ink bottle lamps

The condition of the ink bottles set in the machine is confirmable with lamps located over the ink bottles.

Ink bottle lamps
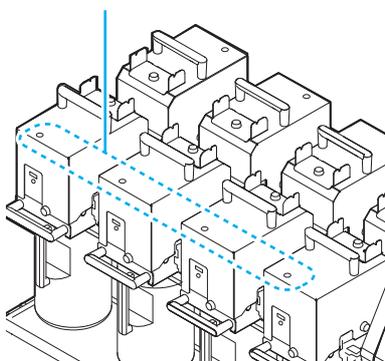
Condition of Ink bottle lamp	Description
OFF	No error
Blinks in red.	There is less ink in the ink bottle (Near End). Or, one month has passed from the expiration date of ink. It will become unusable soon.
Lights in red.	There is no ink in the ink bottle, or the ink bottle cannot be used due to other ink error. (☞ P.5-5)
Blinks in red (fast).	As two months have passed from the expiration date of ink, you cannot use the ink bottle.
Lights in green.	Indicates that ink is supplied. When you use four-color ink set, this machine first supplies ink from the ink bottle whose ink expires soon.
Blinks in red and green alternately.	It blinks in red and lights in green alternately.

About ink expiration date

The ink bottle has its expiration date.
You can use the bottle in two months after the expiration date indicated on it, however, you cannot use it when three months have passed from the expiration date.
When it becomes unusable, the ink bottle lamp blinks fast in red to inform you of it. At this time, replace it with new one.

Ex.) When the expiration date is April 2012
     May : Usable
     June : Usable (Ink bottle lamp blinks in red.)
     July : Unusable (Ink bottle lamp blinks fast in red.)

About ink end and ink near end

When it becomes Ink near end (remaining amount of ink is less), the ink bottle lamp blinks in red to inform you of it. It is recommended to replace it with new one as soon as possible.
When it becomes Ink end (remaining amount of ink is none), the ink bottle lamp lights in red to inform you of it. Replace the ink bottle.

Caution in handling of ink bottles

- If you get ink in your eyes, immediately wash your eyes with a lot of clean running water for at least 15 minutes. In doing so, also wash the eyes to rinse ink away completely. Then, consult a doctor as soon as possible.
- Use genuine ink bottles for this machine. This machine functions by recognizing the genuine ink bottles. In case of troubles caused by modified ink bottles or the like, it shall be out of the warranty even within the warranty period.
- If the ink bottle is moved from a cold place to a warm place, leave it in the room temperature for three hours or more before using it.
- Make sure to store ink bottles in a cool and dark place.
- Store ink bottles and waste ink tank in a place that is out of the reach of children.
- Request an industrial waste processor for processing of empty ink bottles.
- Be sure to thoroughly consume the ink in the ink bottle, once it is opened, within three months. If an extended period of time has passed away after opening the ink bottle, printing quality would be poor.
- Do not shake ink bottles violently. This may result in ink leakage from the ink bottles.
- Do not touch or stain the contacts of the IC chip. This may cause damages on printed circuit boards.

Media

Usable media sizes and notes for handling are described.

Usable sizes of media

Model		TS500-1800
Type of Recommended media		Photo paper
Maximum width		1910mm
Minimum width		297mm
Maximum printing width		1890mm
Roll media	Thickness	0.2mm or less
	Roll outside diameter	Φ300mm or less
	Roll weight[*1]	60kg or less (when using standard take-up/ feeding unit)
	Roll inside diameter	3 inches
	Side printed	Side facing outward
	Roll end treatment	The roll end is gently fixed to the core with weak-adhesive tape or weak glue for easy removal.

*1. When holding the right and left side of roll media and when there is no deflection on the roll

Caution in handling of medias

Pay attention to the followings for handling of medias.

Important!

- **When handling media, wear the gloves.**
  If you touch the media with your bare hand, the media may be stained due to fingerprints or oil of your finger. Be careful about it.
- **Do not leave the media with the heater ON for a long time.**
  Waviness may occur on the media and it may cause media clogging.
- **Use media recommended by MIMAKI to ensure reliable, high-quality printing.**
  Set the heater temperature to meet the characteristics of the media.
- **Set the temperature of the Print-heater and Post-heater ①/② according to the type and characteristics of the media used.**
  Automatic temperature setting can be made on the operation panel by setting the profile on the dedicated RIP. For setting on the RIP, refer to the instruction manual for your RIP.
- **Pay attention to the expansion and contraction of the media.**
  Do not use media immediately after unpacking. The media can be affected by the room temperature and humidity, and thus it may expand and contract.
  The media have to be left in the atmosphere in which they are to be used for 1 day or more after unpacked.
- **Do not use curled media.**
  This may result in paper jamming.
  If a regular-sized coated sheet of media is rolled and stored, the coated side has to face outside.
- **Be careful to dusts on the edge face of the medium.**
  Some rolls have dusts contained in the package gathered on the edge surface of the roll. If you use as it is, the drawing quality may be degraded due to nozzle missing or ink drops. Be sure to set the roll after removing dusts adhering on the edge face of the roll.

1

Before Use

Chapter 2
Basic Operations

This chapter

describes procedures and setting methods for ink and media preparation, and printing.

Workflow

1	**Turning the Power ON/OFF**	Referring to "Turning the Power ON/OFF" (☞ P.2-3).
2	**Setting a Media**	Referring to "Setting a Media" (☞ P.2-5).
3	**Preparing for the Heaters**	Referring to "Preparing for the Heaters" (☞ P.2-26).
4	**Test Feeding**	Referring to "Test Feeding" (☞ P.2-28).
5	**Test Printing**	Referring to "Test Printing" (☞ P.2-29).
6	**Head Cleaning**	Referring to "Head Cleaning" (☞ P.2-31).
7	**Set the media feeding**	Referring to "Set the media feeding" (☞ P.2-32).
8	**Correct the ink drop position for bidirectional printing**	Referring to "Correct the ink drop position for bidirectional printing" (☞ P.2-34).
9	**Printing Data**	Referring to "Printing Data" (☞ P.2-36).

Turning the Power ON/OFF

Turning the Power ON

(Important!) • Turn the power ON after the front cover and maintenance cover are closed.

1
Turn the main power switch ON.
• Set the main power switches located on the side of this machine to the "I" side.

Main power switch
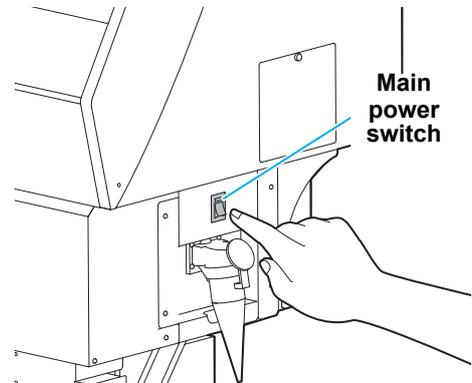
2
Push the power button.
• Push the power button located on the operation panel.

Power button
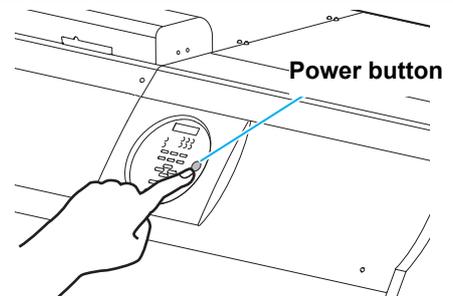
• The firmware version is displayed when the power is turned ON.

• The machine performs its initial operation.

```
TS500        Start-up
Ver 1.00
```

3
The machine enters LOCAL.

```
<LOCAL>
```

4
Turn ON the power of the connected PC.

• Always make the main power switch ON. If you leave it OFF, it may cause nozzle clogging of the head. In some cases, recovery may become difficult.

(Important!) • When the power is turned on, flushing or cleaning are carried out automatically, and then one minute of deaeration is performed before the next operation.
While performing deaeration, "SEARCHING ORIGIN" flashes on the second line and the buzzer sounds at regular intervals.

```
PLEASE WAIT
SEARCHING ORIGIN
```

Turning the Power OFF

When having ended the operation of the machine, turn the power OFF by pressing the power button located on the front side.
Check the following items when turning the power OFF.
- If the machine is receiving data from the PC or if there is any data that has not been output yet
- If the head has returned to the capping station
- If any error has occurred （☞ P.5-18 "Error messages"）

1 **Turn OFF the power of the connected PC.**

2 **Press the power button to turn the power OFF.**
- The power supply button goes out.
- Do not turn OFF the main power switch located on the side of the machine.
- To use this machine again, light the green lamp by pressing the power button.

Power button
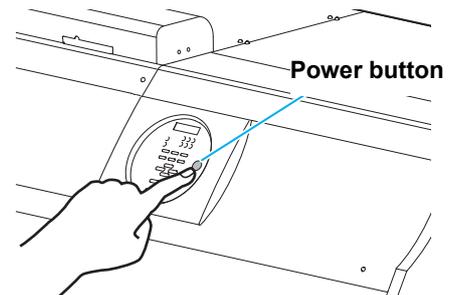
Cautions about Turning the Power OFF

● **Do not turn the main power switch OFF.**

When the main power switch is ON, the power periodically turns ON and the nozzle clogging prevention function (flushing function) and the pressure adjusting function operate.
When the main power switch has been turned OFF, the auto maintenance functions, such as flushing, do not operate, and this may cause nozzle clogging.

● **Keep the front cover and the maintenance cover closed.**

If the cover is opened, the auto maintenance function such as the flushing function does not work.

● **Turn the power OFF after having checked the position of the head.**

If the power is turned OFF in a state where the head has not returned to the capping station, the head dries, which may cause nozzle clogging.
In this case, turn the power ON again and check that the head has returned to the capping station, and then turn the power OFF.

● **Do not turn the power OFF during printing.**

The head may not return to the capping station.

● **After having turned the power button OFF, turn the main power switch OFF.**

When turning the main power switch off for moving the machine or for solving the error or the like, press the power button on the front of the machine, check the display is turned off on the operation panel, and then turn the main power switch off.

Setting a Media

This machine can be used with a roll media and leaf media.
For usable medias, refer to P.1-17 "Usable sizes of media".

Setting the Head Gap

Set the head gap (height from the media to the nozzle plane of the heads).
When the carriage is to move above the platen for printing or maintenance, it moves while keeping the head gap at the preset value.
The upper limit of the head gap varies with media thickness.
Available setting values: [1.5 mm to 7.0 mm] (in units of 0.1 mm / Default : 2.0 mm)

1 Press the (MEDIA) key in LOCAL.

```
HEAD GAP
                    [ENT]
```

2 Press the (ENTER) key.

```
HEAD GAP
=              2.0mm
```

3 Press (▲)(▼) to set a value of the head gap.
   • **Set value** : 1.5 to 7.0mm

```
HEAD GAP
=              2.0mm
```

4 Press the (ENTER) key.

```
SETUP
HEAD GAP       [ENT]
```

5 Press the (END) key several times to end the setting.

How to check the value of the head gap

When you check the head gap value currently set, perform the following procedures:

Press the (ENTER) key in Local.

Press the (ENTER) key several times to display [HEAD GAP].
• The head gap value currently set is displayed.

Setting the head gap without (MEDIA) key

You can set the head gap by using the (FUNCTION) key in the Local without pressing the (MEDIA) key.

Press the (FUNCTION) key in Local.

Press (▲)(▼) to select [SETUP], and press the (ENTER) key.

Press (▲)(▼) to select [HEAD GAP], and press the (ENTER) key.
• The screen in the Step 2 is displayed. Perform the procedures from the Step 3.

Note for media setting

When setting media, read the following notes carefully.

⚠ Caution

- Take care not to drop the media on your foot when setting the media.It may cause an injury due to the media.
- When setting a roll media, work by two or more people. Otherwise, you may hurt your back by the weight of the roll media.
- In the cases below, be sure to fix tension-bars on both sides of the printer. If you leave the tension-bars unfixed, the bars supported by media may fall down. Please be careful.
  (1) When lifting up the clamp lever
  (2) When cutting media manually
  (3) When cutting media with tools you have (cutter, scissors, etc.)

Important!

- In the following cases, the media may not be detected correctly.
  When setting a transparent media / when a media is exposed to direct sunshine.
- Do not use a printed media. Otherwise, ink can adhere to the pinch rollers and media may be stained or may not be detected.
- Straighten the significantly or internally curled media to be fed along the platen.
- If the media is left set on the machine for a long time, the media may form an irregular surface for the heat from the print-heater. If printing on such an irregular surface, the head may rub on the media. If an irregular surface is found on the media, feed the media with the ▼ key to avoid printing on the irregular surface, and set a new origin. (☞ P.2-25)
- Set the media based on the right side of the main body.
- Periodically replace the paper core for taking up the media. If you use the one whose inner has been peeled due to long-term use as shown in the right photo, taking up the media cannot be performed normally in some cases.

Setting a roll media

Prepare for the take-up device first

Prepare for the take-up device before setting the roll media.

Caution
- Handle the roll shaft with care, since it is very heavy with media. To avoid an accident or injury, be sure to grip the handles on both ends.

Handle

---
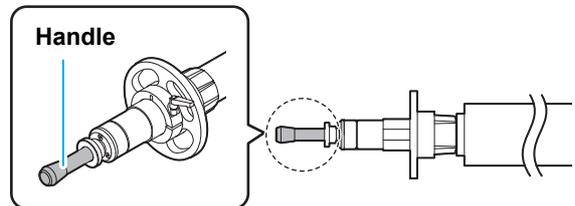
1 **Fix the tension-bars on the front and the back of this machine at the lock position.**

- The locks are on the right front and the left back of this machine.
- Lift the tension-bars and fix them with the locks.

Lock

Tension-bar
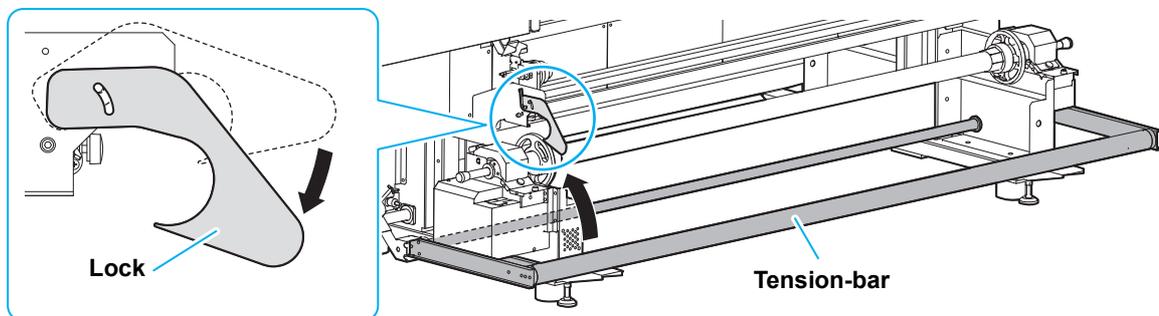
Caution
- Grip the outside of the lock of the tension-bar. If gripping the other parts, your hand may get stuck in.

---

2 **Remove the roll shaft on the take-up device at the front of this machine.**

(1) Loosen the cover fixing screw attached to the cover of right/ left of take-up device and unlock the AMF lock by sliding it.
(4) Open the covers.
(5) Remove the roll shaft.
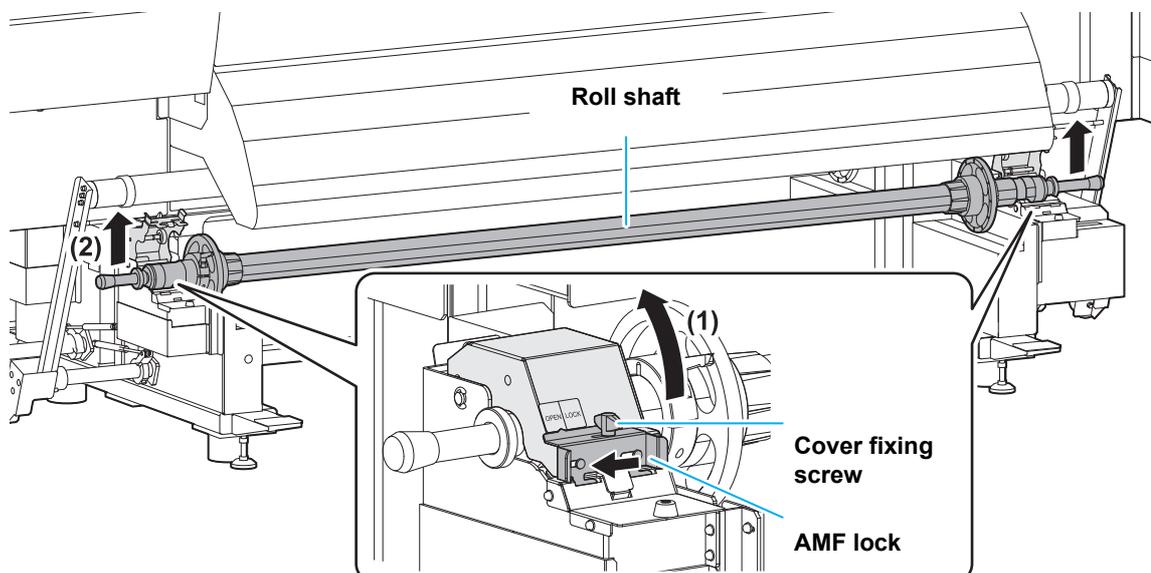
Roll shaft

(2)

(1)

Cover fixing screw

AMF lock

---

3 Remove the roll holders.

• The roll holders are on both for the right and left of the roll holder. Remove both with the procedures below:

(1) While lifting the lever of the roll holder stopper, rotate it to the position indicated in the figure.

Roll holder stopper

(2) Get off of the lever once, and rotate it to the direction indicated in the figure to loosen it.

Loosen it by rotating anticlockwise.

(3) Repeat the Step (1) and (2) to release the lock of the roll holder.

(4) After rotating the handle of the roll holder counterclockwise, take out the roll holder.

Roll holder stopper
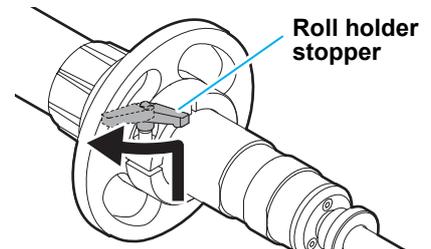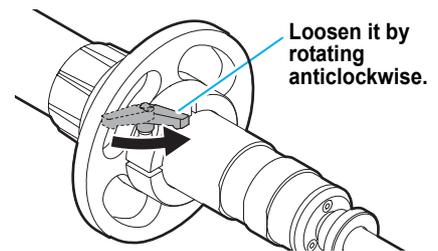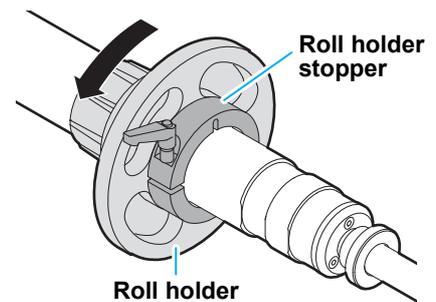
Roll holder

4 Attach the paper core.

(1) Put the roll shaft through a paper core.
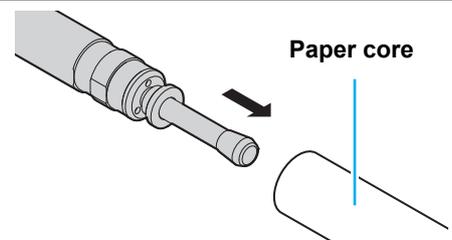
Paper core

(2) Adjust the paper core so that it comes to the right side of the roll shaft.
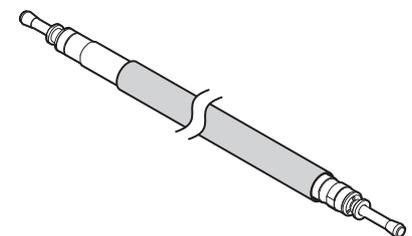
(3) Push right and left roll holders into the paper core, and rotate the handle of the roll holder clockwise.
  • Firmly insert it so that the paper core does not run idle.
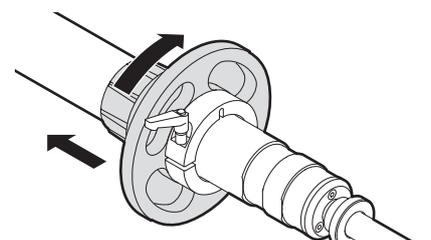
5

Set the roll shaft with the paper core on the take-up device, and close the covers on the right and left sides of the roll shaft.

• Fitting the A part of the roll shaft to the B part bearing of the machine, put it on.
• After closing the cover, slide the AMF lock to the locking position and tighten the cover fixing screw.

(1)

(2)

B part

A part

6

Fix the roll holder.

• The roll holders are at both of right and left. Fix both with the procedures below.

(1) While lifting the lever of the roll holder stopper, rotate it to the position indicated in the figure.

Roll holder stopper

(2) Get off of the lever once, and rotate it to the direction indicated in the figure to tighten it.

Tighten it by rotating clockwise.
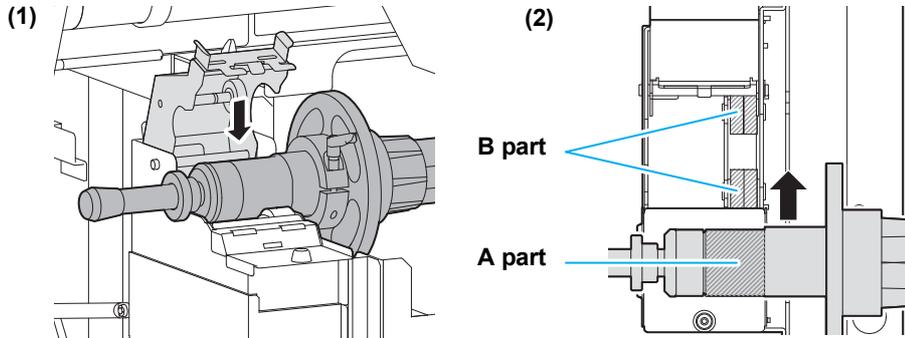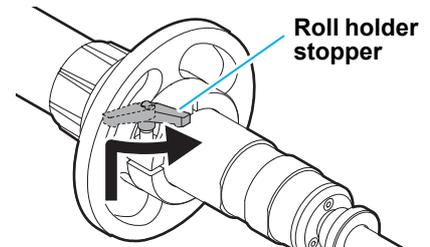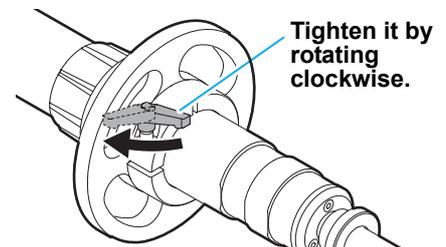
(3) Repeat the Step (1) and (2) to lock the roll holder.

2

Basic Operations

Setting a Roll Media

Set a roll media to the feeding device on the back.
When setting a roll media, set "Setting the feeding and take up" of the machine setting to "ON".

Caution
- Take care not to drop the media on your foot when setting the media.
- Handle clamp levers carefully.
  Do not push the lever up when tension-bar is lifted. Be sure to fix the tension-bar with the lock and push up / down the lever.

Important!
When using the media take-up machine, be careful about the points below:
- At the feeding side, set the printed surface to "revoluted" (inside out).
- At the take-up side, set the printed surface to "involuted". (If you set it to "revoluted", it may adversely affect the media feeding.)

---

1 **Set both of "FEED" and "ROLL" in "Setting the feeding and take up" of the machine setting to "ON".(☞ P.3-15)**

Important!
- When the media is set on the narrow roll holder, remove the media. In addition, move the narrow roll holder to the both edges of the machine. It may cause media feeding defect.

---

2 **Remove the roll shaft on the feeding device at the back of this machine.**

(1) Loosen the cover fixing screw attached to the cover of right/ left of media feeding device and unlock the AMF lock by sliding it.
(6) Open the covers.
(7) Remove the roll shaft.

Roll shaft

Cover fixing screw

AMF lock
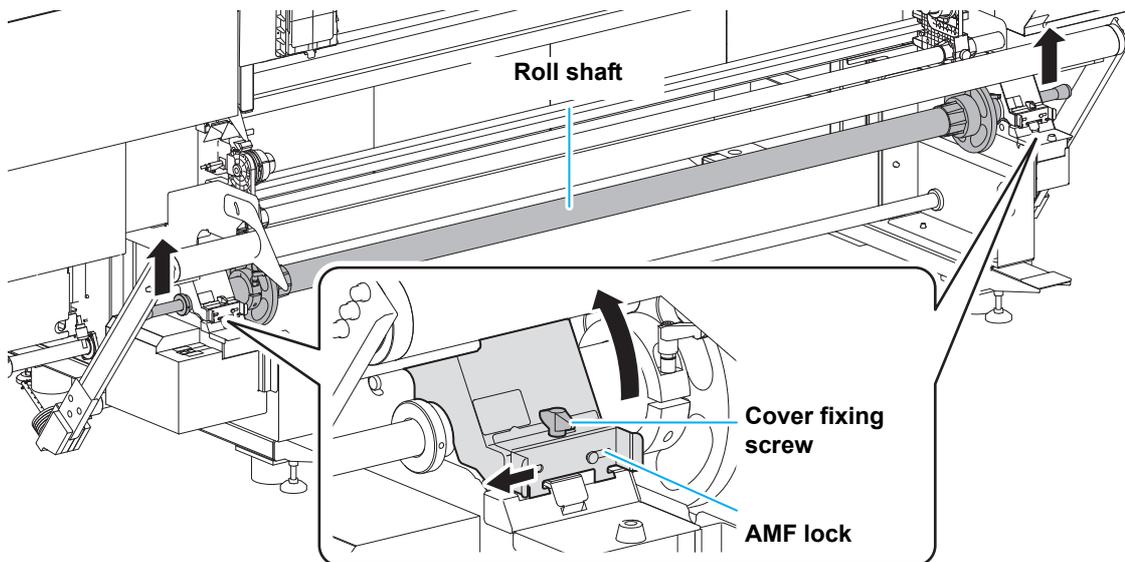
Caution
- When carrying the roll shaft, be sure to grip handles on the both ends. Gripping other parts, your hand may get stuck in the printer.

- To prevent dust, set paper core or media to the roll shaft on the table or sheet.
  Dust on the paper core or the media may cause defective print.

3 **Remove the roll holders.**

• The roll holders are on both for the right and left of the roll holder. Remove both with the procedures below:

(1) While lifting the lever of the roll holder stopper, rotate it to the position indicated in the figure.

Roll holder stopper

(2) Get off of the lever once, and rotate it to the direction indicated in the figure to loosen it.

Loosen it by rotating anticlockwise.

(3) Repeat the Step (1) and (2) to release the lock of the roll holder.

(4) After rotating the handle of the roll holder counterclockwise, take out the roll holder.

Roll holder stopper
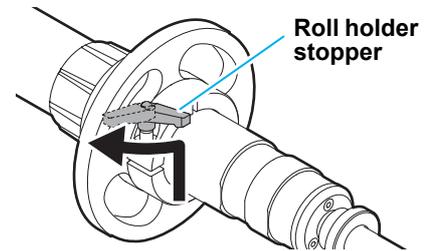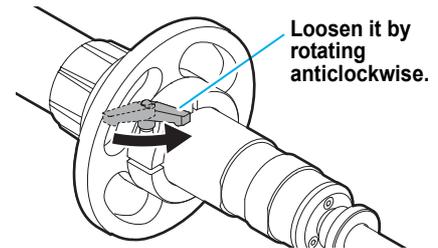
Roll holder
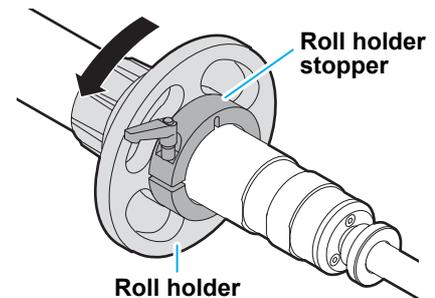
4 **Set a media on the roll shaft.**

(1) Put the roll shaft through the paper core of the media.
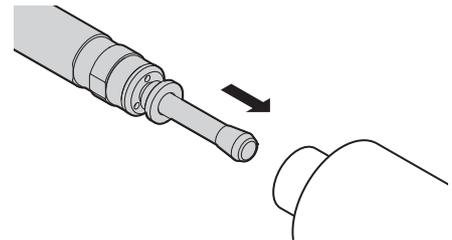
(2) Adjust the media so that it comes to the right side of the roll shaft.
  • Set the media on the machine so that it may come to the right side seen from the front. When you perform the work at the rear side of the machine, set the media on the left side of the roll shaft.
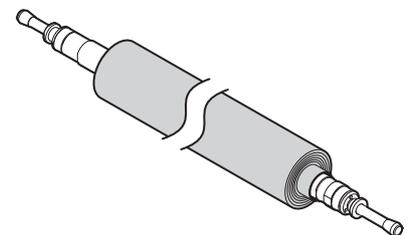
(3) Push right and left roll holders into the paper core, and rotate the handle of the roll holder clockwise.
  • Firmly insert it so that the paper core does not run idle.

2

Basic Operations
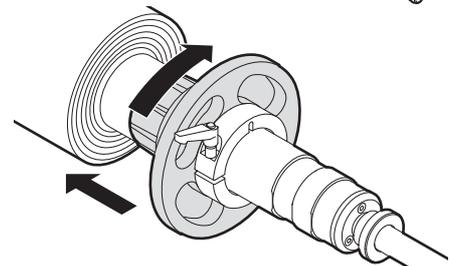
5 Put the roll shaft with the media on the feeding device.

• Fitting the A part of the roll shaft to the B part bearing of the machine, put it on.
• Do not close the cover yet.

(1)

(2)

B part

A part
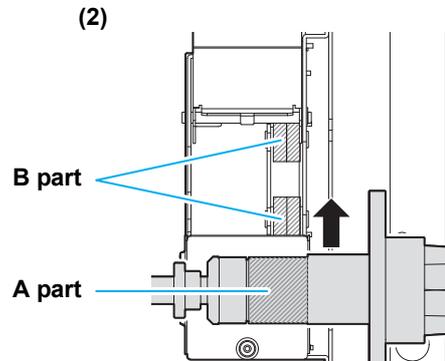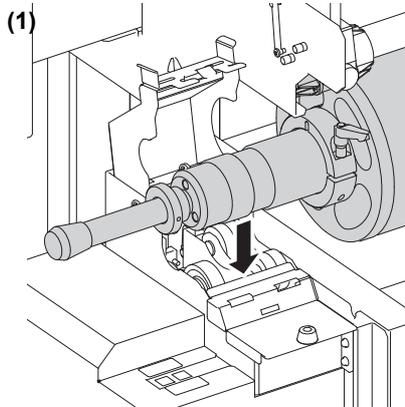
⚠ **Caution**   • Put the shaft on gently, not roughly.

6 Fix the roll holder.

• The roll holders are at both of right and left. Fix both with the procedures below.

(1) While lifting the lever of the roll holder stopper, rotate it to the position indicated in the figure.

Roll holder stopper

(2) Get off of the lever once, and rotate it to the direction indicated in the figure to tighten it.

Tighten it by rotating clockwise.
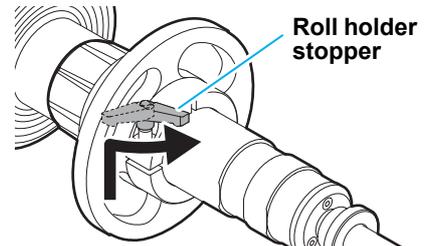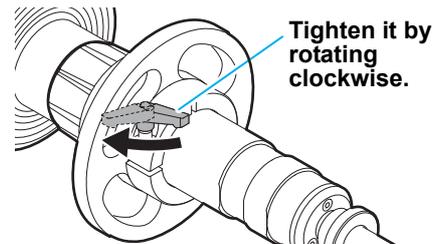
(3) Repeat the Step (1) and (2) to lock the roll holder.

7 **Open the front cover and raise the clamp lever at the front of this machine.**

Clamp lever

Front cover
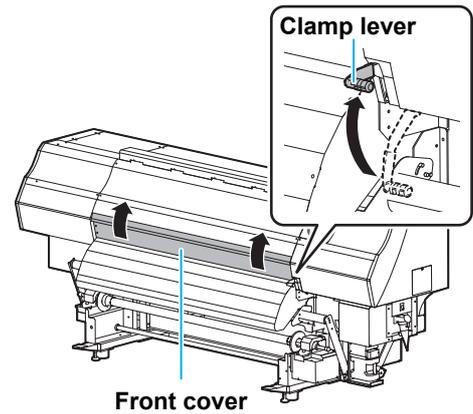
8 **Slide the media from the back to the front.**

- Insert the roll media between the platen and the pinch roller, and slide it to the front.
- Pull the media out to the front of this machine with enough length.

(Important!) • When setting a media, be sure to cover the media sensors located on the rear of the platen. The media cannot be detected unless it is placed over the sensor.
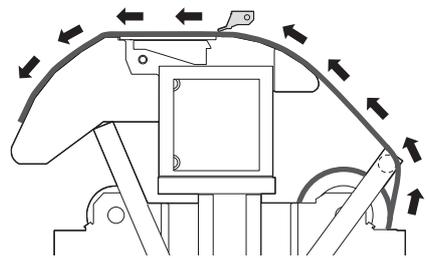
9 **Push down the clamp lever from the back of this machine.**

- Lock the media temporarily.
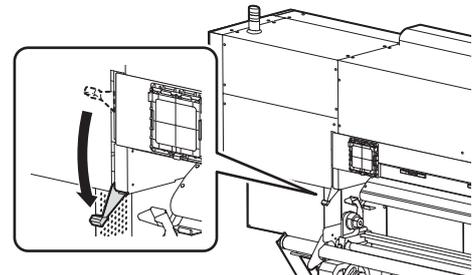
10 **Raise the clamp lever at the front of this machine.**

- Temporary lock of the media is released.

2

Basic Operations
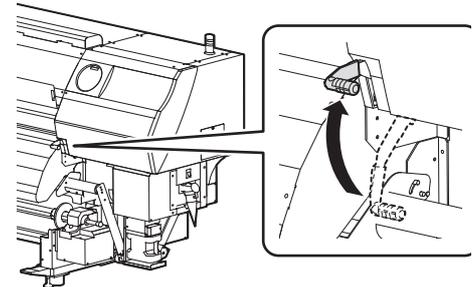
11 Pull out the media.

- Holding both sides of the media, pull it out so that the media top edge comes below the floor by about 50cm.
- To set the media straight, pull out the media long.
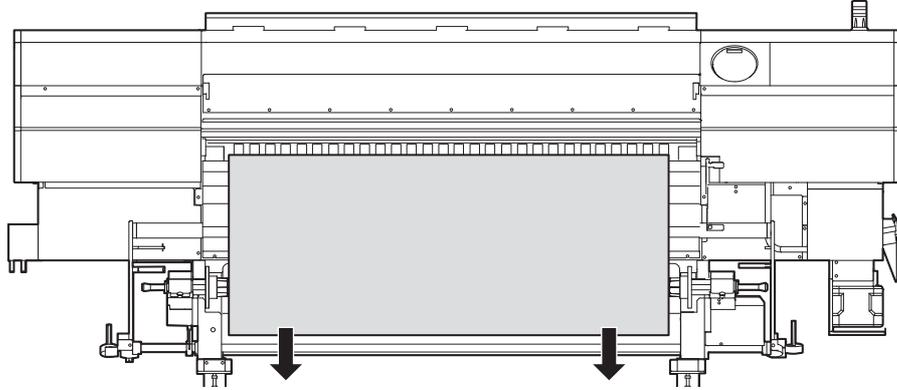
(Important!) **Check the position of the media edge surface and the feed roller.**
- When you clamp the media edge surface with the pinch roller and the feed roller, the quality of transferring media may be degraded. Before setting media, adjust the position of the roll holder fixing the media.

NG Media   **OK** Media

Feed roller
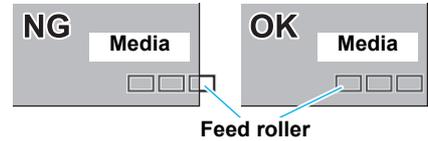
12 Close the covers on the right and the left sides of the feeding device at the back of this machine.

- After closing the cover, slide the AMF lock to the locking position and tighten the cover fixing screw.

Cover fixing screw

AMF lock
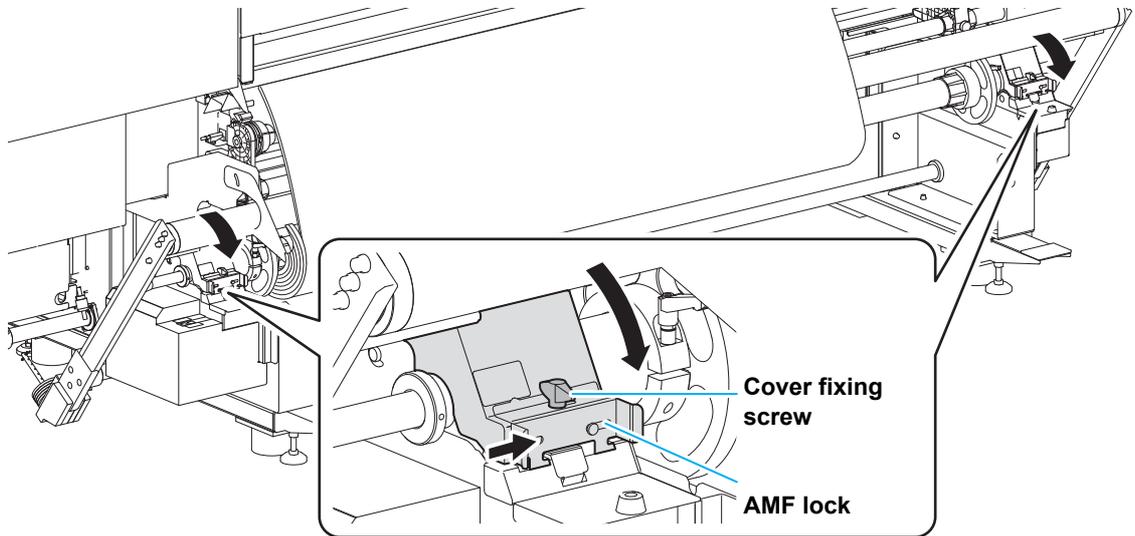
13 At the back, lift the tension-bar down to the stopper slowly to tighten the media.

- Unlock the tension-bar, and then lift it down.

Rock
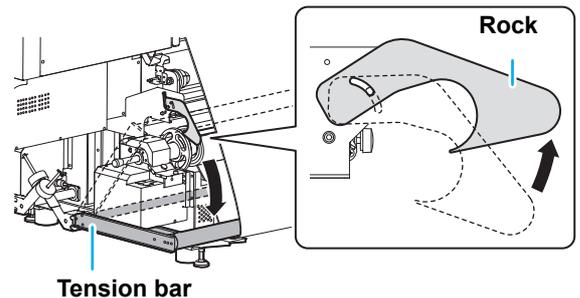
Tension bar

14 **Push down the clamp lever.**

15 **Adjust the position of the tension-bar with the switches on the left of the feeding device.**

(1) Set the ↑↓ switches to the take-up direction of the media.
(2) Turn the left switch to [MANUAL].
   • The tension-bar is lifted, reeling the media. At this time, when the tension bar does not move upward even if the media is fed, change the ↑↓ switch.
(3) When the tension-bar arm becomes parallel to the floor, turn the left switch to [AUTO] to stop the tension-bar.
(4) Turn the ↑↓ switch to the feeding direction of the media.
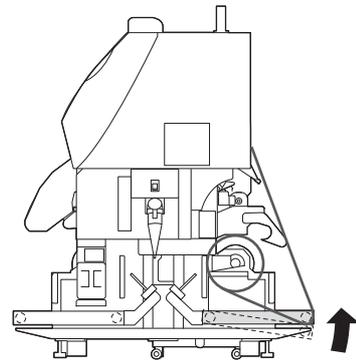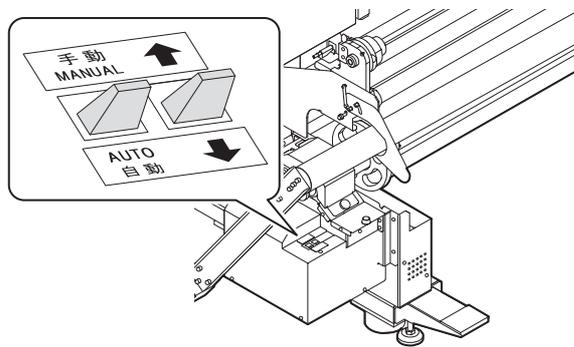
16 **Hold the media with the media press gently.**

• Set the media so that no media sticks out from the right end pinch roller to the right side.
• When using a thick media, remove the media press from the media before printing.

Media press

⚠ **Caution**
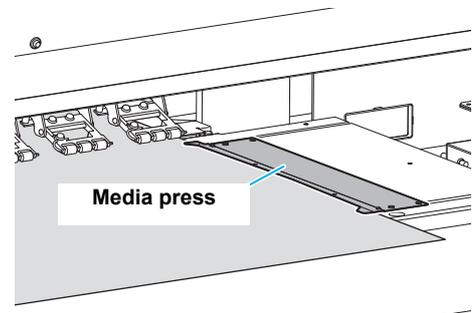
• If the media gets near to the right side too much, the warning on the right is displayed after media detection. Set the media again.

```
ERROR 516
MEDIA SET POSITION R
```

17 **Close the front cover.**

2

Basic Operations

2-15
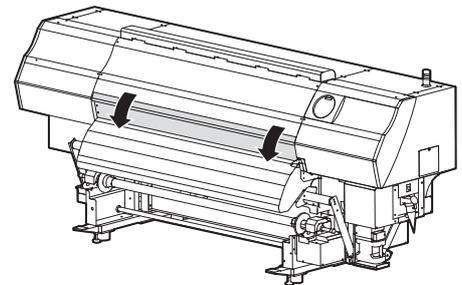
18 **Press ◀ to select "ROLL" .**

```
MEDIA SELECT
ROLL<        >LEAF
```

• Detects the media width and thickness.
• If the media thickness could not be detected, the error message is displayed. Enter the media thickness by referring to P.2-17 "When media thickness could not be detected".
• When you set "Media remaining amount display" and "Media detection" to "ON" and "MANUAL" (☞ P.3-16,P.3-23) in the machine setting, input screen for the media thickness and the remaining amount is displayed after detecting the media width. (☞ P.2-18)

19 **Secure the media on the take-up device.**

(1) Feed the media up to the core of the roll media of the take-up device by pressing ▼.

(2) As indicated, fix the media on the paper core with tape so that the printed surface may be "involuted".
  • Along the paper core, fix the media on several positions with tape in the order in the figure so that the media may not wrinkle.

⑤ ④ ① ② ③
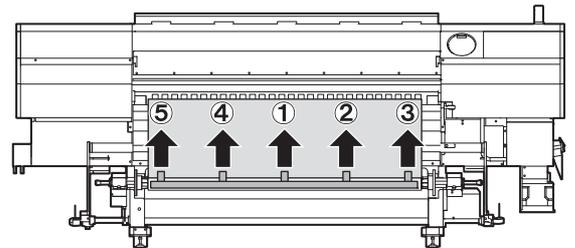
  • Surface waviness or ruck may affect the quality of currently printed image.
    When fixing media with tape, align the media along the direction indicated with an arrow in the figure.
  • If you pull the media too much when fixing with tape, the media tension may not be even. And, it may negatively affect the media feeding.

20 **Press ▲ ▼ to loosen the media.**

• Loosen the media until it reaches to the floor.

21 **With switches of the take-up device, roll up the media about once.**

(1) Making the left switch to [MANUAL] and the right ↑↓ switch to the direction taking up the media, take up the media.
(8) Just before the media stretched tight, turn the left switch to [AUTO] to stop.

  • Rolling up the media too tight, covers of take-up device opens and an error [Cover Open] appears. In this case, open the right cover of the take-up device, and loosen the tension of the media.

2-16

22 **Press ▲ ▼ again to loose the media.**

• Loosen the media until it reaches to the floor.

23 **At the front, lift the tension- bar down slowly.**

• Unlock the tension-bar, and then lift it down.

Tension bar

Rock

24 **Press ▲ ▼ to lift the tension-bar up and to stretch the loosened media.**

• Turn the switch to [AUTO]. Tension-bar lifts, taking up the media, and automatically stops at the proper position.

💡 • **When the tension bar does not move upward even if you press the ▲ ▼ switch, stretch the slack media by operating the switch.**
(1) Set the ↑↓ switch to the take-up direction of the media, and turn the switch to [MANUAL]. (The tension-bar is lifted.)
  • When the media is fed and the tension-bar is not lifted, turn the ↑↓ switch to the other side.
(2) When the tension bar arm becomes parallel with the floor, turn the switch to [AUTO] to stop the tension bar.
(3) Turn the ↑↓ switch to the take-up direction of the media.

• The media between the take-up device and carriage cannot be printed.

When media thickness could not be detected

There may be a case where the media thickness cannot be detected properly depending on the media.
In such a case, the media thickness must be input manually.

1 **An error is displayed, and the carriage returns to the station.**

```
ERROR510
THICKNESS DETECT
```

2 **Press ▲ ▼ to enter the media thickness (0.1 to 1.0mm).**

```
MEDIA THICKNESS
=            0.1mm
```

3 **Press the ENTER key.**

• The media selection screen is displayed.

```
   MEDIA SELECT
ROLL<        >LEAF
```

4 **Press ◀ ▶ to select "ROLL" or "LEAF".**

• Detects the media width.
• Thickness detection is also performed here if the END key is pressed at step 2 above.

2

Basic Operations

About entering media thickness and remaining amount

When you set "Media remaining amount display" and "Media detection" to "ON" and "MANUAL" (☞ P.3-16?P.3-23), input screen for the media thickness and the remaining amount is displayed after detecting the media width.

---

1 **Display the screen for entering media thickness.**

• When you set the MEDIA THICKNESS to "AUTO" in the "Media detection" of the machine setting, this screen is not displayed. (☞ P.3-23)

```
MEDIA THICKNESS
=              0.1mm
```

---

2 **Press** ▲ ▼ **to enter the media thickness (0.1 to 1.0mm).**

```
MEDIA THICKNESS
=              0.1mm
```

---

3 **Press the** ENTER **key.**

---

4 **Display the screen for entering media remaining amount.**

• When you set "Media remaining amount display" of the machine setting to "OFF", this screen is not displayed. (☞ P.3-16)

```
Input of MediaLength
=              **.*m
```

---

5 **Press** ▲ ▼ **to enter the media remaining amount.**

```
Input of MediaLength
=              **.*m
```

---

6 **Press the** ENTER **key.**

Installing the counter weight for adjusting the take-up/ feeding tension-bar weight

Install the proper number of the counter weight depending on the media type.
Depending on the attaching position of the counter weight, you can adjust the tension bar weight. (If you attach it on the A part in the next pages figure, it may be heavier, and on the B part, it may be lighter.)
You can attach the counter weight up to 5 each for right and left.

Media condition	Solution
Ruck is generated in the media feeding direction.	The tension applied on the media is too strong. According to your media, attach the counter weight on the B part.
The media skews at printing.	
The media sags and the machine cannot take it up beautifully.	The tension applied on the media is too weak. According to your media, attach the counter weight on the A part.
The media floats on the platen.	

Attach the weight on the top edge of the tension bar when you want to make the take-up tension bar and the feeding tension bar heavier.

A part

B part
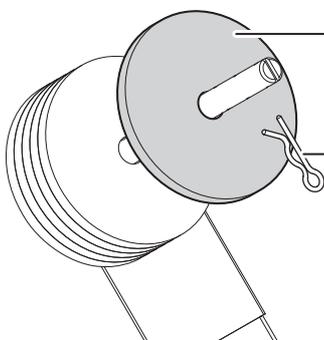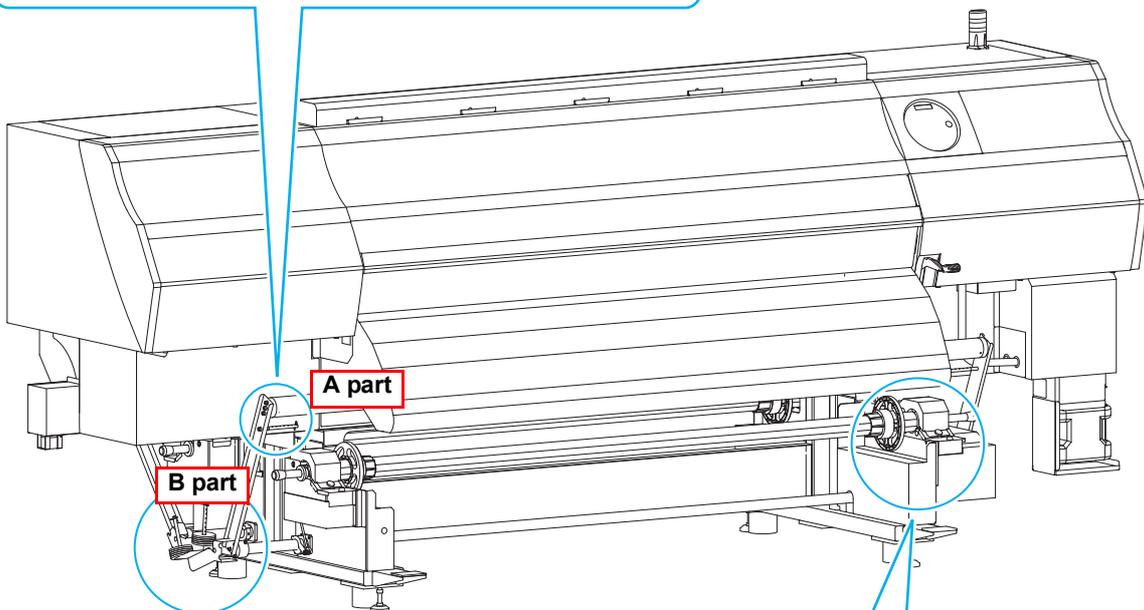
Attach the weight on the rear side of the machine when you want to make the take-up tension bar lighter. In addition, when you want to make the feeding tension bar lighter, attach the weight on the rear side of the machine.

After attaching the counter weight, clip it to prevent falling.
Insert the clip into the hole on the stick to attach the counter weight.

Caution
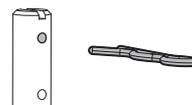
• The counter weight is very heavy. Handle it with care.
  If your finger or foot is stuck in the weight, you may be injured.

Important!

• Not to lose the unused counter weight, put it in the storage box.

2

Basic Operations

Setting a narrow roll media

When you use narrow roll media (up to 1m), set the media on the narrow roll holder.

(Important!) **When using the media take-up machine, be careful about the points below:**
- At the feeding side, set the printed surface to "revoluted" (inside out).
- At the take-up side, set the printed surface to "involuted". (If you set it to "revoluted", it may adversely affect the media feeding.)

1 **Fix the tension bar of the rear surface side on the locking position.**

- The tension bar lock is on the left side of the machine rear surface. Raise the tension bar and fix it with the lock.

(Caution) • Be sure to handle the tension-bar gripping outside of the lock. Gripping other parts, your hand may get stuck in.

Tension bar
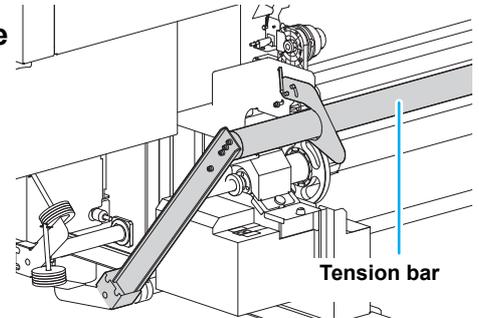
2 **Set the setting of the feeding unit to "OFF" in "Setting the feeding and take up" of the machine setting. (☞ P.3-15)**

3 **Move the roll holder on the back of this machine.**

- Loosen the roll holder fixing screw and then move it.
- Move the roll holder to the position where the media may be right seen from the front of the machine.

Roll holder

Roll holder fixing screw
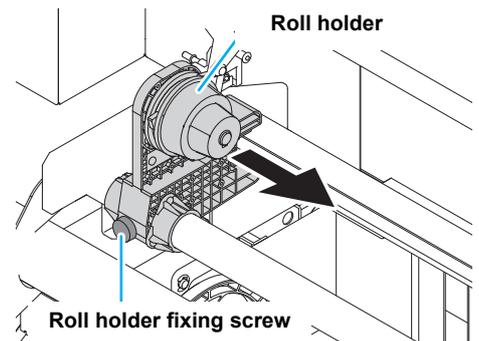
4 **Tighten the roll holder fixing screw.**

- Check the Steps 2 to 3 again.

5 **Set the left end of the core of the roll media on the left roll holder.**

- Push the roll media onto the roll holder until the roll core is all the way seated.
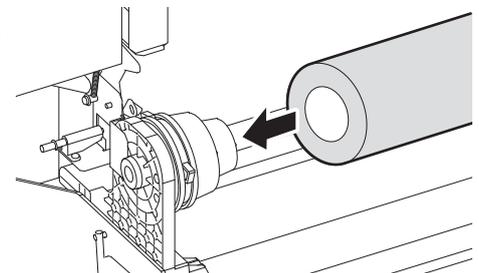
6 **Loosen the screw of the right roll holder, and insert the holder into the paper core.**
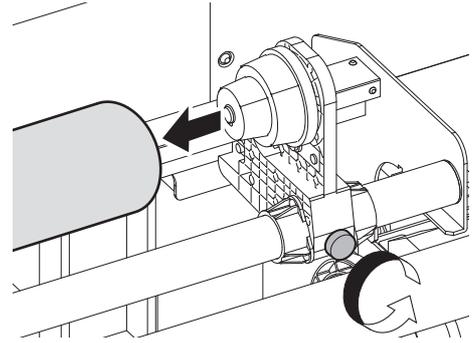
7 **Raise the clamp lever in the rear side of this machine.**
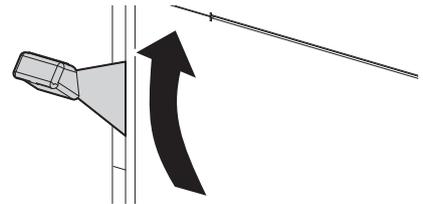
8 **Insert the roll media in this machine.**
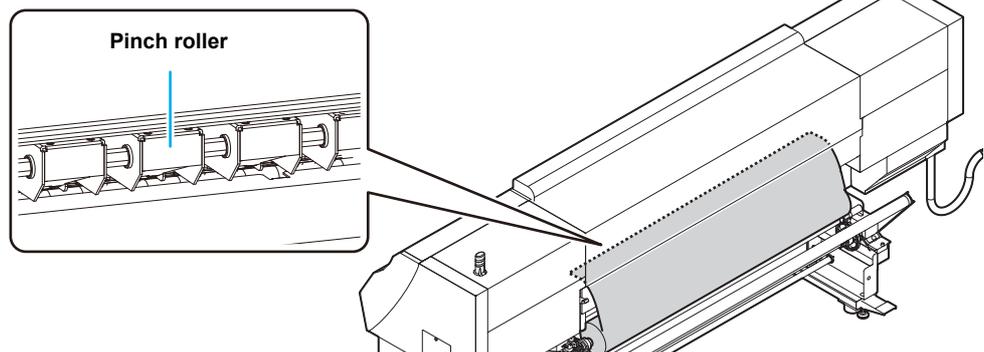
Pinch roller

• The roll media can be smoothly inserted by slanting the media.

(1) Pull the media out of the roll to the head of the platen.
(2) Insert the media between the platen and the pinch roller.
   • Pull the media out of the roll so that the media can be grasped from the front of the machine.
(3) Push down the clamp lever from the back of this machine.
   • The media is held.

9 **Locking the roll stopper.**

(1) Pull the roll stopper in the directionshown right.
(2) Press the lock pin to hold the roll stopper.

Roll stopper

Lock pin

2

Basic Operations
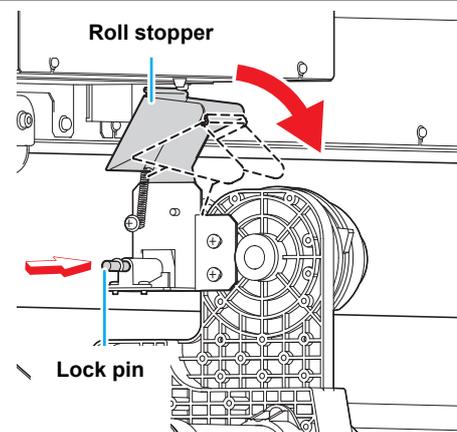
10 Pull out the roll media out.

(1) Open the front cover.
(2) Raise the clamp lever from the front of this machine.
(3) Pull out the roll media gently and then stop pulling when locked lightly.
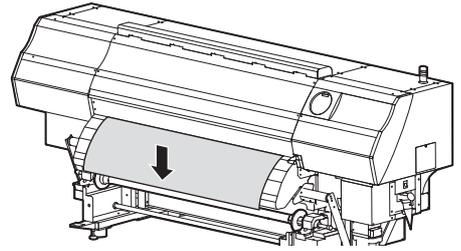
Important! **Check the position of the media edge surface and the feed roller.**
• When you clamp the media edge surface with the pinch roller and the feed roller, the quality of transferring media may be degraded. Before setting media, adjust the position of the roll holder fixing the media.

NG | Media
OK | Media
Feed roller
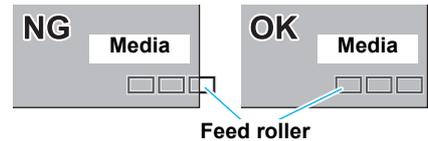
11 Push down the clamp lever from the front of this machine.

12 Hold the media with the media press gently.

• Set the media so that no media sticks out from the right end pinch roller to the right side.
• When using a thick media, remove the media press from the media before printing.

Media press
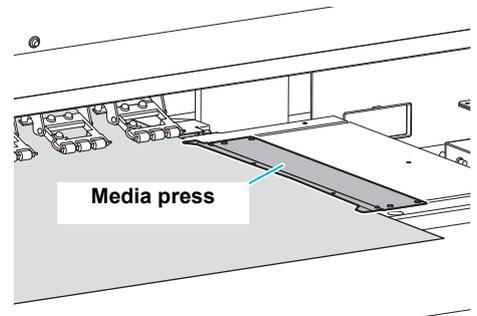
13 Close the front cover.

14 Press the ◄ key to select "ROLL" .

• Detects the media width.
• When [MEDIA RESIDUAL] of the machine setup is "ON" (☞ P.3-16), the screen for entering media remaining amount is displayed after detecting the media width.(☞ P.2-18)

```
    MEDIA SELECT
ROLL<          >LEAF
```

15 Secure the media on the take-up device.

(1) Feed the media up to the core of the roll media of the take-up device by pressing ▼.

(2) As indicated, fix the media on the paper core with tape so that the printed surface may be "involuted".
  • Along the paper core, fix the media on several positions with tape in the order in the figure so that the media may not wrinkle.

⑤ ④ ① ② ③
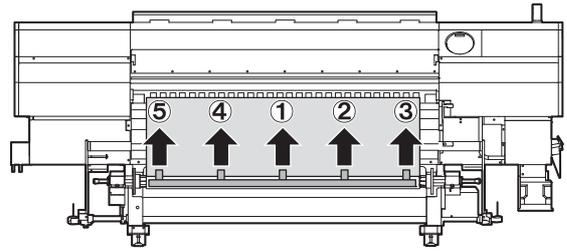
> • Surface waviness or ruck may affect the quality of currently printed image.
>   When fixing media with tape, align the media along the direction indicated with an arrow in the figure.
> • If you pull the media too much when fixing with tape, the media tension may not be even. And, it may negatively affect the media feeding.

---

16 **Press ▲▼ to loosen the media.**

• Loosen the media until it reaches to the floor.

---

17 **With switches of the take-up device, roll up the media about once.**

(1) Making the left switch to [MANUAL] and the right ↑↓ switch to the direction taking up the media, take up the media.
(2) Just before the media stretched tight, turn the left switch to [AUTO] to stop.

> • Rolling up the media too tight, covers of take-up device opens and an error [Cover Open] appears. In this case, open the right cover of the take-up device, and loosen the tension of the media.

---

18 **Press ▲▼ again to loose the media.**

• Loosen the media until it reaches to the floor.

---

19 **At the front, lift the tension- bar down slowly.**

• Unlock the tension-bar, and then lift it down.

Tension bar

Rock

---

20 **Press ▲▼ to lift the tension-bar up and to stretch the loosened media.**

• Turn the switch to [AUTO]. Tension-bar lifts, taking up the media, and automatically stops at the proper position.

> • **When the tension bar does not move upward even if you press the ▲▼ switch, stretch the slack media by operating the switch.**
>   **(1)** Set the ↑↓ switch to the take-up direction of the media, and turn the switch to [MANUAL]. (The tension-bar is lifted.)
>   • When the media is fed and the tension-bar is not lifted, turn the ↑↓ switch to the other side.
>   **(2)** When the tension bar arm becomes parallel with the floor, turn the switch to [AUTO] to stop the tension bar.
>   **(3)** Turn the ↑↓ switch to the take-up direction of the media.
>
> • The media between the take-up device and carriage cannot be printed.

2

Basic Operations

Setting leaf media

Unlike roll media, leaf media does not need to be retained with the roll holders.

1 **Open the front cover.**

Clamp lever

Front cover

2 **Raise the clamp lever.**
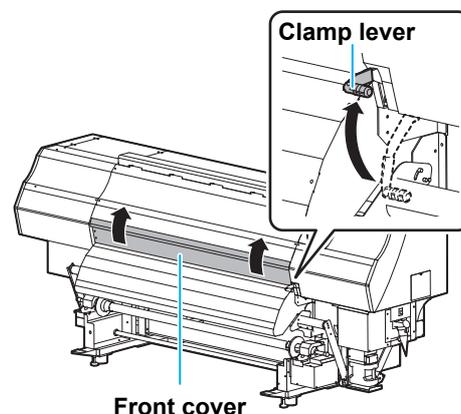
3 **Insert the leaf media between the platen and the pinch rollers.**

- Set the media so that no media sticks out from the right end pinch roller to the right side.
- Set the media so that the media end does not reach the slot of the post-heater.
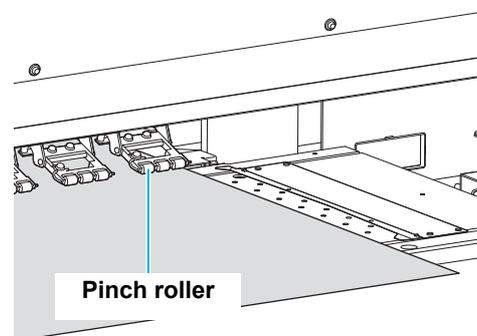
Pinch roller

4 **Hold the media with the media press gently.**

- Set the media so that no media sticks out from the right end pinch roller to the right side.
- When using a thick media, remove the media press from the media before printing.

Media press

⚠ **Caution**
- If the media gets near to the right side too much, the warning on the right is displayed after media detection. Set the media again.
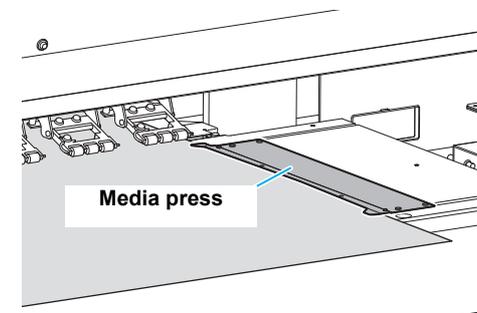
ERROR 516
MEDIA SET POSITION R

5 **Push down the clamp lever.**

- Set the media straight.

6 **Close the front cover.**
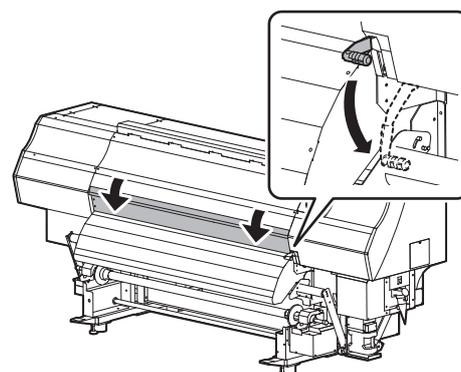
| 7 | Press the `ENTER` key. | |

| 8 | Press the `▶` key to select "LEAF" . | ``` MEDIA SELECT ROLL<   >LEAF ``` |

| 9 | **The media detection is started.**
(1) The media width is detected.
(2) It returns to the LOCAL when the detection is completed. | ``` ** MEDIA DETECT ** ``` |

Changing the printing origin

The position of the printing origin can be changed.

| 1 | **In Local, Press `▲` `▼` `◀` `▶`.**
• It enters into the origin setting mode. | ``` ORIGIN SETUP 0.0   ---- ``` |

| 2 | **Press `▲` `▼` `◀` `▶` to set the origin to a desired position.**
• Select the carriage and media, moving the point with `▲` `▼` `◀` `▶`.
• When you press the `CUT` key here, you can perform media cutting. | ``` ORIGIN SETUP 0.0   0.0 ```
Origin   **Origin**
(Length)   **(Width)** |

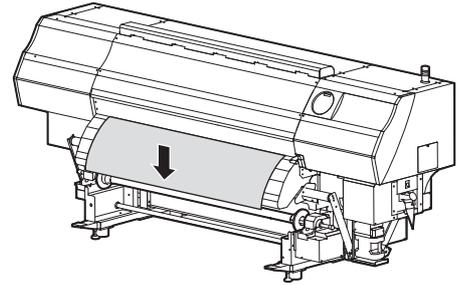| 3 | **After determining the origin, press the `ENTER` key.**
• The printing origin is changed. | ``` ORIGIN SETUP ** ORIGIN ** ``` |
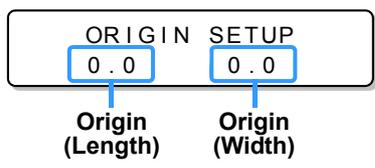
Typical setting position of printing origin

The printing origin in the depth direction (X') is positioned at about 75 mm rearward from the slot for cutting on the platen. The printing origin in the scanning direction (Y') is positioned at 15 mm from the right end of the media. The value in the scanning direction (Y') can be changed using [MARGIN] in FUNCTION mode.
(☞ P.3-2) This can be changed by using the Jog key.

25 mm (Y')

approx. 75 mm (X')

2

Basic Operations
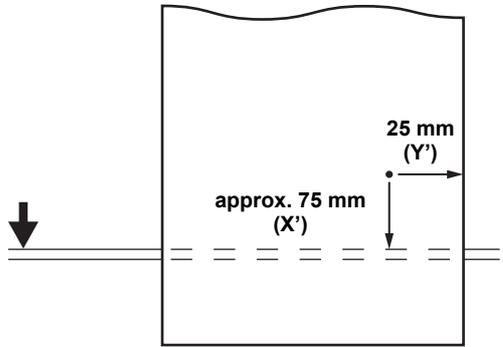
Preparing for the Heaters

Changing the Temperature Settings for the Heaters

Set the heater temperature.
Depending on the media and the profile to use, set the heater temperature.

- It may take several minutes to tens of minutes for the set temperature to be reached, depending on the ambient temperature.

💡 • You can change the temperature set here also in [HEATER] of the [SETUP] menu. (☞ P.3-3)

---

1 **Press the (HEATER) key.**

```
PRT      POST1  POST2
35°C     40°C   50°C
```
Heater temperature confirming display

---

2 **Press the (HEATER) key.**

Heater temperature set in this machine

```
OFF      OFF        OFF
( 23°C    23°C       23°C )
```

Current heater temperature

---

3 **Press (▲)(▼)(◀)(▶) to set the temperature of each heater.**

Heater selecting   : Select with (◀)(▶)
Temperature setting : Set with (▼)(▼)

- The heater starts to get hot.(The [HEAT] lamp lights in orange.)
- When the heater temperature reaches the set temperature, the [HEAT] lamp goes off and the [CONSTANT] lamp lights in green.

The settable temperature of PRT and POST1: 20 to 60°C

The settable temperature of POST2: 20 to 70°C

```
40°C    40°C       50°C
( 23°C    23°C       23°C )
```

---

4 **Press the (ENTER) key.**

- The display is shifted to the external heater setting.

```
EXTERNAL HERTER
:OFF
```

---

5 **Press the (ENTER) to select ON/OFF.**

- When using the external heater, set this to "ON".

```
EXTERNAL HERTER
:ON
```

---

6 **Press the (ENTER) key to end the setting.**

💡 • The Heater temperature is controllable at the RIP side if the RIP in use has a function controllable. (For the setting procedures, refer to the instruction manual of the RIP in use.)

Important! • Use this machine under 20 to 30°C. The temperature may not reach the set value due to the environmental temperature condition.

Checking the Heater Temperature

1 | **Press the** [HEATER] **key.**
• The current heater temperature is displayed.

```
 PRT      POST1  POST2
 35°C     40°C    50°C
```

2 | **Press the** [END] **key at the end of confirmation.**
• The screen returns to LOCAL.

2

Basic Operations

Test Feeding

Since heater is used at high temperature, cockles may occur in some of your media. (☞ P.5-13)
Perform this function before printing, and check whether the media can be fed normally.

1 Press the (TEST PRINT/CLEANING) key in LOCAL three times.

```
TEST  FEED
                    [ENT]
```

2 Press the (ENTER) key.

```
BACKWARD  FEED
:ON
```

3 Press (▲)(▼) to select ON/OFF.

• When setting "ON", rewind the roll media to take up the slack before printing.

```
BACKWARD  FEED
:ON
```

4 Press the (ENTER) key.

```
TEST  FEED
START            [ENT]
```

5 Press the (ENTER) key.
• Start test feeding.

```
**  TEST  FEED  **
    PLEASE:WAIT
```

6 Press the (END) key.
• The feeding operation is continued until you press the (END) key.
• Feed it to some extent and check the feeding status, and then press the (END) key to terminate.

Test Printing

Print a test pattern to check that there are no discharging defects such as nozzle clogging (slight touching of ink or nozzle missing).

Relationship between head row and test pattern

The relations between head row and test pattern print position are as follow.
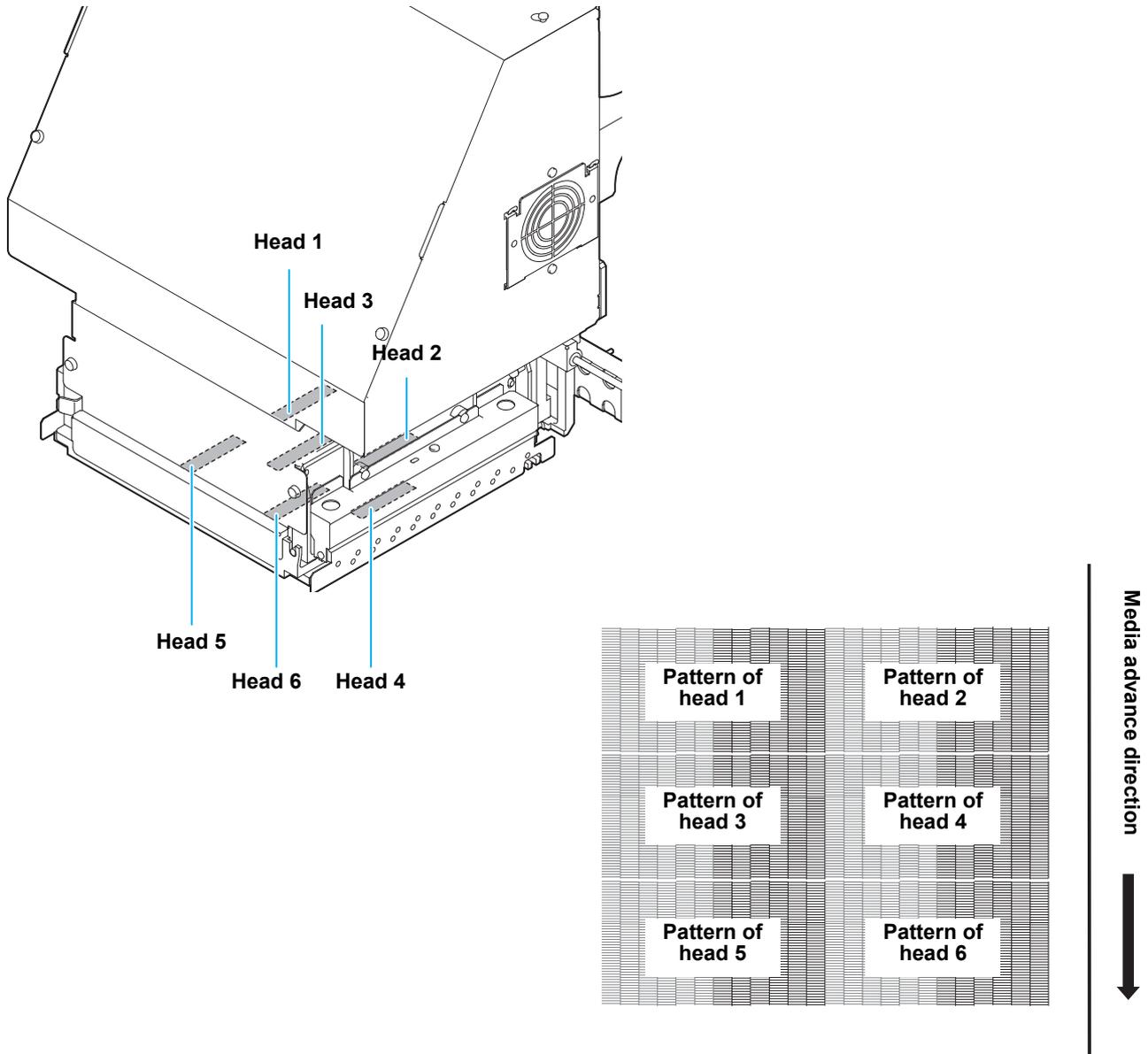
Test Printing

Print a test pattern to check that there are no discharging defects such as nozzle clogging (slight touching of ink or nozzle missing).

In addition, you can select the orientation of the test pattern to print from two types in order to perform test printing repeatedly. Select one depending on your use.

: When the set value is "FEED DIR."

: When the set value is "SCAN DIR."

Media-feeding direction
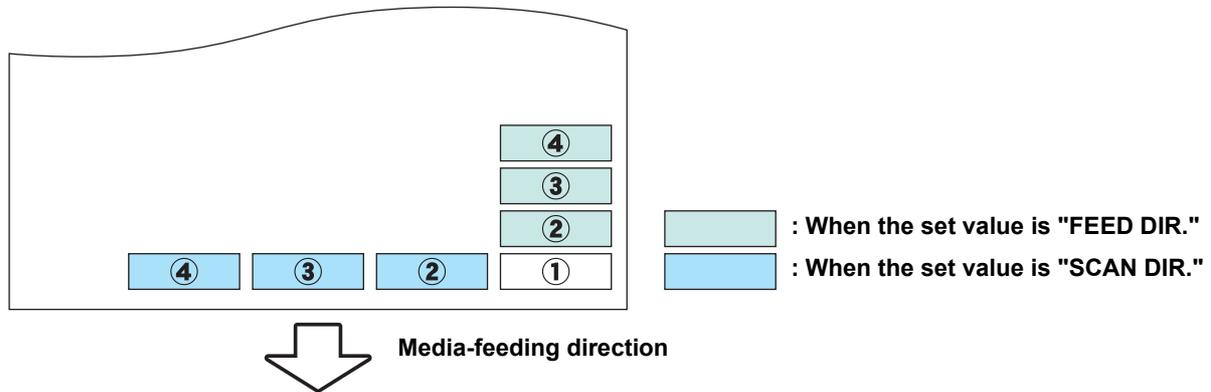
Check before test printing.	• If a media has been set ☞ P.2-5	• If the origin position has been set
	• If the head height has been adjusted ☞ P.2-5	

1 Press the `TEST PRINT/CLEANING` key in LOCAL.
• Press ▲ ▼ to change the test pattern orientation.

```
TEST PRINT
(FEED DIR.)     [ENT]
```

2 Press the `ENTER` key.
• Test printing starts.

```
** PRINTING **
  PLEASE WAIT
```

• When the printing has been completed, the screen returns to step1.

```
TEST PRINT
(FEED DIR.)     [ENT]
```

3 Check the printed test pattern.
• When the result is normal, end the operation.
• When the result is abnormal, perform head cleaning. (☞ P.2-31)

Nozzles are dirty   Clogged with ink

Normal pattern   **Abnormal pattern**
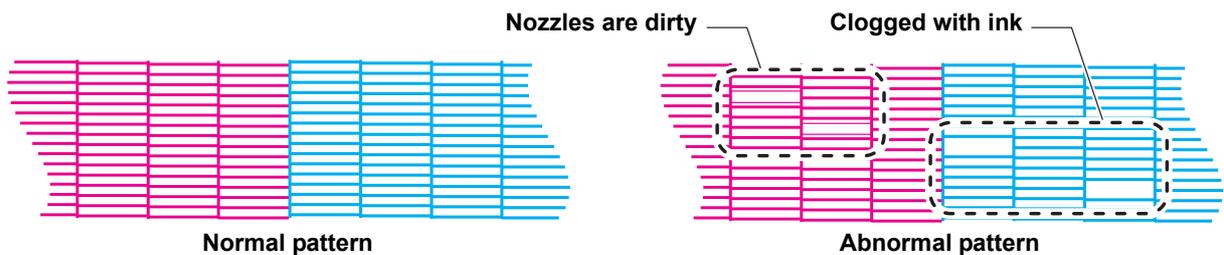
Head Cleaning

About head cleaning

Check the printed test pattern result and perform cleaning depending on the status.
Select one from the three types below:

SOFT : When lines are bent, when any line is missing
NORMAL : When any line is missing, when colors are mixed
HARD : When poor image quality cannot be improved even by NORMAL or SOFT cleaning

Perform head cleaning depending on the test printing result

There are three types of head cleaning. Use one by checking the test pattern.

1 In Local, Press the (TEST PRINT/CLEANING) key twice.

```
CLEANING
SOFT            [ENT]
```

2 Press (▲)(▼) to select the cleaning type.

SOFT : When lines are bent, when any line is missing
NORMAL : When any line is missing, when colors are mixed
HARD : When poor image quality cannot be improved even by NORMAL or SOFT cleaning

```
CLEANING
NORMAL          [ENT]
```

3 Press the (ENTER) key.

```
SELECT HEAD
:12
```

4 Press (▲)(▼) to select a head to cleaning.

```
SELECT HEAD
:1_
```

• Set Value : 12 (Cleaning all heads.)
　　　　　　　 1_ (Head of Group 1)
　　　　　　　 _2 (Head of Group 2)

Head1　Head2
Head3　Head4
Head5　Head6

Rear side of machine

Group 1　Group 2
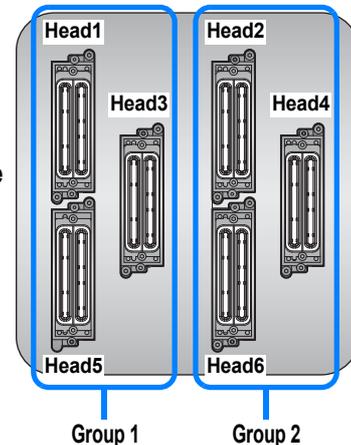
5 Press the (ENTER) key.

```
**  CLEANING  **
      00:00:00
```

6 Perform test printing again, and check the result.

• Repeat the cleaning and the test printing until the drawing result becomes in normal.

When the image quality is not improved after the head cleaning.
• Clean the wiper and ink cap. (☞ P.4-5)
• By referring to "When Nozzle Clogging Cannot Be Solved", set the head nozzle washing (☞ P.4-16) and the nozzle recovery (☞ P.4-18).

Set the media feeding

Correct the feeding rate of media.
If the correction value is not appropriate, stripes may appear on the printed image, thus resulting in a poor printing.

(Important!) • When you have changed the media type, check the pattern and perform adjustment depending on the status.
• When you have changed the temperature of the heaters, make sure that the [CONSTANT] lamp lights up and that the preset temperature is reached, and then start the correction.
• When printing with a take-up device, set the media first and then perform media correction.

Setting Feed Correction

A pattern for media correction is printed and a media-feeding rate is corrected.

• Two bands are printed in the correction pattern.
• Make adjustment so that an even color density is obtained in the boundary between the two bands.

Second band ———
Media advance direction
First band

---
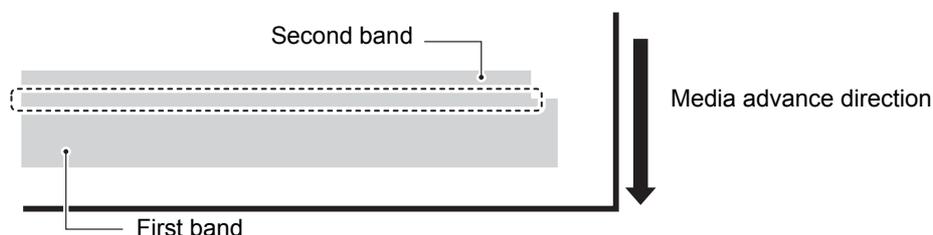
1 | **Set a media. (☞ P.2-5)**

---

2 | **Press the (ADJUST) key in LOCAL.** | FEED COMP.
                                                             [ENT]

---

3 | **Press the (ENTER) key.** | FEED COMP.
                                      PRINT   [ENT]

---

4 | **Press the (ENTER) key to print a correction pattern.** | ** PRINTING **
                                                                      PLEASE WAIT

---

5 | **Check the correction pattern and enter a correction value.** | FEED COMP.
                                                                         =   0

Enter a correction value in "+": The boundary between the two bands is widened.
Enter a correction value in "-": The boundary between the two bands is narrowed.

• When you change the correction value by "20", the band moves about 0.01mm. By referring to this correction amount, determine the correction value.

6 **Press the** `ENTER` **key.**

- Print a correction pattern again and check it.
- When media correction is needed, perform the operation in Step 5 to make correction.

```
FEED COMP.
PRINT          [ENT]
```

7 **Press the** `END` **key several times to end the setting.**

Performing the station maintenance without `ADJUST` key

You can select "FEED COMP." by using the `FUNCTION` key in the Local without pressing the `ADJUST` key.

| **Press the** `FUNCTION` **key in Local.** | **Press** ▲ ▼ **to select [SETUP].** | **Press the** `ENTER` **key twice.**
• The screen in the Step 3 is displayed. Perform the procedures from the Step 4. |

Correcting Media-feeding during Printing

A media-feeding rate can be corrected even in the remote mode or when image data is printed.

1 **Press the** `FUNCTION` **key in the Remote.**

```
*REMOTE*
            **.**mm
```

```
FEED COMP.
    0   ▶    0
```

Current [FEED COMP.] value

2 **Press** ▲ ▼ **to enter a corrected feeding rate.**

- Corrected feeding rate: -255 to 255
- The value entered here is reflected in the corrected feeding rate soon.

3 **Press the** `ENTER` **key.**

- The changed value is registered.
- When you press the `ENTER` key instead of the `END` key, the value entered here will be invalid.

```
*REMOTE*
            **.**mm
```

2

Basic Operations

Correct the ink drop position for bidirectional printing

When the condition for printing (media thickness/head height/etc.) has been changed, perform the following operation to correct the ink drop position for bidirectional (Bi) printing and obtain the proper printing result.

Example of a Drop Position correct Printed Pattern

Output direction

±0

+ −
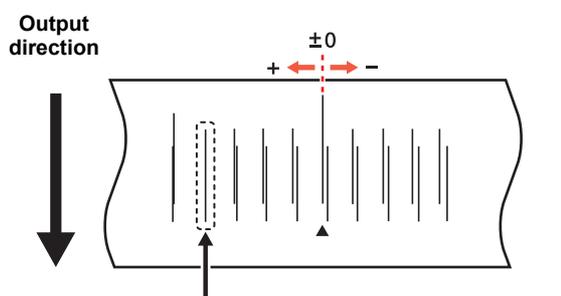
The dots at the fourth position counted from the zero position in the positive direction form a straight line. In this case, the dot position correction value is 4.0.

1 **Set a media on the machine and set a printing origin. (☞ P.2-5)**

2 **Press the (ADJUST) key in LOCAL twice.**

```
DROP.POScorrect
                    [ENT]
```

3 **Press the (ENTER) key.**

```
DROP.POScorrect
PRINT            [ENT]
```

4 **Press the (ENTER) key to start pattern printing.**
- Multiple test patterns are printed. (The printed patterns are called Pattern 1, Pattern 2, Pattern 3... in the order of printing.)

```
** PRINTING **
   PLEASE WAIT
```

5 **Press ▲ ▼ to correct the dot position of Pattern 1~.**
- **Corrected feeding rate**: -40.0 to 40.0
- Check the test patterns. The position where an outward feeding line and a return feeding line become one straight line is the correction value.
- When the correction value in not between -40.0 and 40.0, adjust the head gap and then perform the operations in Step 2 and later.

```
PATTERN1
=               0.0
```

6 **By pressing the ⟨ENTER⟩ key, register the correction value.**

• The screen to correct the next pattern is displayed. Repeat the procedures from the Step 5 to correct all patterns.
• After correcting all patterns, perform the procedures in the Step 7.

```
PATTERN2
=                    0.0
```

7 **Press the ⟨END⟩ key several times to end the setting.**

Performing to correct the dot position without ⟨ADJUST⟩ key

You can select "DROP.POScorrect" by using the ⟨FUNCTION⟩ key in the Local without pressing the ⟨ADJUST⟩ key.

Press the ⟨FUNCTION⟩ key in Local. → **Press ⟨▲⟩⟨▼⟩ to select [SETUP], and press the ⟨ENTER⟩ key.** → **Press ⟨▲⟩⟨▼⟩ to select [DROP.POScorrect], and press the ⟨ENTER⟩ key twice.**
• The screen in the Step 3 is displayed. Perform the procedures from the Step 4.

2

Basic Operations

2-35
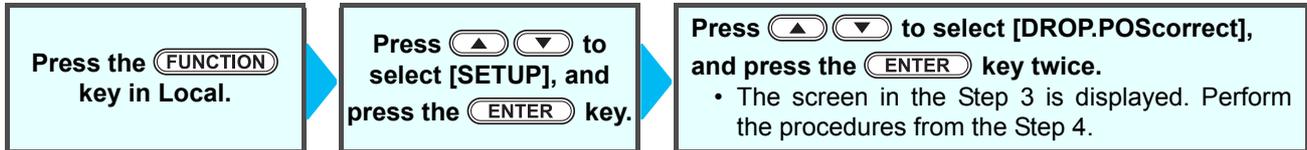
Printing Data

Starting a Printing Operation

Important!
- When using a roll media, rewind the media by hand before printing so that it is not loose.When the roll media has not been rewound tightly, it may cause the image quality to deteriorate.

1 Setting a Media (P.2-5)
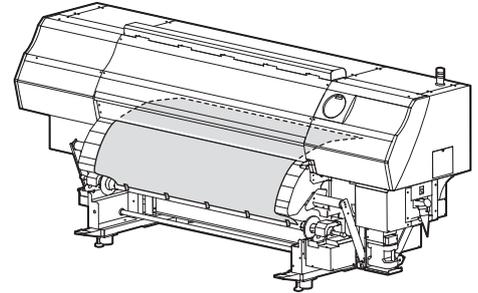
2 Checking the Heater Temperature
- Check the CONSTANT lamp lights in [PRINT], [POST①], and [POST②] below the display.

CONSTANT
ACTIVE
PRINT POST① POST②
HEAT

3 Press the REMOTE key in LOCAL.
- If the heater temperature has not reached the setting value, the right screen is displayed.
  Even if it has not reached, you can move to REMOTE when pressing the ENTER key.
- The screen changes to REMOTE, and data can be received from the PC.

```
TEMPERATURE  CONTROL !
      PLEASE  WAIT
```

4 Transmit data to be printed from the PC.
- The printing conditions are displayed.
- For the method of data transmission, see the instruction manual for the output software.

Resolution : 600 /900 DPI

With/ without nozzle recovery setting (Operates with nozzle recovery enabled when "R" is displayed)

With/ without MAPS setting

Heads used for printing

5 Start printing.

```
600x900    R /MP  /ALL
  6.Bd.Nd.x2     xx.xxm
```

The length of media drawn

Scanning speed
x1 : Standard speed
x2 : Double speed

Data type
VD : Variable data
ND : Normal data

Scan direction
Ud : Unidirectional
Bd : Bidirectional

Number of passes
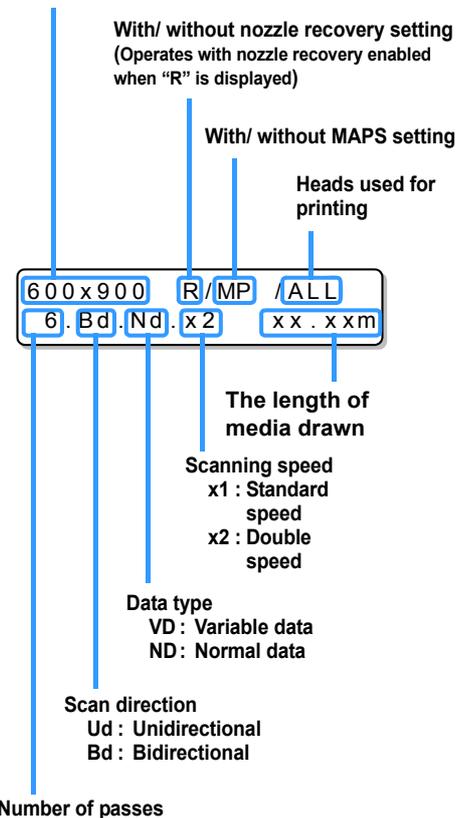
Stopping a printing operation halfway

Perform the following operation when stopping a printing operation halfway.

1 **Press the (REMOTE) key during printing.**
  • The printing operation stops.
  • Interrupt data sending at the PC side during the data is sent from the PC.
  • Printing restarts from the interrupted data by repressing the (REMOTE) key.

```
<LOCAL>
       DATA REMAIN
```

Deleting Received Data (Data Clear)

When you want to stop printing, delete the already received data.

1 **Press the (DATA CLEAR) key in LOCAL.**

```
DATA CLEAR
                [ENT]
```

2 **Press the (ENTER) key.**
  • The received data is erased then it returns to the local mode.

```
** DATA CLEAR **
```

Behavior after printing has been completed

Drying Feed

When printing has been completed, the feeding operation is performed to dry the printed surface with the drying heater.
  • Perform the feeding operation until the back edge of printing passes the drying heater.
  • When you press the (END) key, the operation is terminated.
  • When the machine has been received next data continuously, it will operate after the last data is received.
  • Depending on the position of your drying fan, set the feeding amount. (☞ P.3-25 "Setting a View Feed")

Screen display during drying feeding

```
Drying
Please Wait
```

2

Basic Operations

Cutting a media

When you cut the media after printing of roll media has been completed, cut it with the key on the operation panel.

(Important!)
- When a media is cut, be careful that the printed side does not touch the floor or the printed side of other already cut media.
- When using the take-up device, take up a cut medium using the switch of the take-up device.
- Before performing cut, fix the tension bars on the front and the rear surfaces of the machine at the locking position.

1 Press the (MEDIA) key twice.

```
MEDIA CUT
                    [ENT]
```

2 Press the (ENTER) key.

```
MEDIA CUT
CUT POSITION    [▲▼]
```

3 Press (▲)(▼) to specify the cutting position.

```
   CUT POSITION
   0.0      ----
```

4 Press the (ENTER) key.

- The media is cut.
- When the cutting has been completed, the current mode returns to LOCAL.

```
 ** CUTTING **
  PLEASE WAIT
```

- During the origin setting with the jog keys, you can also perform media cutting by pressing the (MEDIA) key. (☞ P.2-25)

Chapter 3
Extended Functions

This chapter

describes the operation procedures for using the machine more conveniently and each setting procedure.

This section describes the overview of each function to be set and set values that can be registered in user types.

Important!
- **About default "HOST" function**
  You can operate this by the setting value specified in RIP software.
  When you set to other than "HOST", it operates by that setting value, not by the instruction from RIP software.
  Depending on RIP software, there are some functions that cannot be instructed by software. In such a case, it operates by the setting value of "When no instruction from RIP exists".
- For the specifying method with the RIP software, refer to the operation manual of the RIP software.

Function name		Set value	Default	When no instruction from RIP exists [1]	Outline
FEED COMP. (☞ P.2-32)		-9999 ~ 0 ~ 9999	0	————	Used to print a pattern for correcting a media-feeding rate and correct it.
DROP. POS CORRECT (☞ P.2-34)		-40.0 ~ 0 ~ 40.0	0	————	Used to adjust the dot position in go and return printing.
HEATER (☞ P.2-26)	PRINT	OFF/ 20 ~ 60°C (OFF/ 68 ~ 140°F)	OFF	————	Sets heater conditions.
	POST①	OFF/ 20 ~ 60°C (OFF/ 68 ~ 140°F)	OFF	————	
	POST②	OFF/ 20 ~ 70°C (OFF/ 68 ~ 158°F)	OFF	————	
	EXTERNAL HEATER	OFF/ON	OFF		Sets ON/OFF of the external heater.
LOGICAL SEEK(☞ P.3-4)		HOST / ON / OFF	HOST	ON	Sets the scan movable area during printing.
INK LAYERS (☞ P.3-11)		HOST /1 ~ 9	HOST	1	Sets the number of layers in which ink is to be applied.
DRYING TIME (☞ P.3-4)		HOST /0.0 ~ 9.9 sec	HOST	0 sec	Sets the drying time of ink per scan.
MARGIN (☞ P.3-6)	LEFT	HOST / -10 ~ 85mm (1mm unit)	HOST	0 mm	Sets a non-printing area along the right and left edges of the media.
	RIGHT	HOST / -10 ~ 85mm (1mm unit)	HOST	0 mm	
REFRESH (☞ P.3-11)		HOST / Lv.0 (Refresh interval long) ~ 3 (Refresh interval short)	HOST	Lv.3	Refreshes the print heads during printing.
VACUUM (☞ P.3-11)		HOST / STANDARD / STRONG	HOST	STANDARD	Sets the absorbability of the media.
FEED SPEED (☞ P.3-11)		HOST / 10 ~ 200% [2]	HOST	100%	Changes the media feeding speed in printing.
MAPS (☞ P.3-7)	OFF/ON		OFF	————	Perform setting to reduce stripes between passes.
	PRINT SPEED ADJUST	-50 to +50%	0%	————	
AUTO CLEANING (☞ P.3-9)	OFF, PAGE, LENGTH, TIME		OFF[3]	————	Sets the automatic cleaning operation for the head performed before printing or during printing.
	PAGE INTERVAL	1 to 1000 page	1 page	————	
	TYPE	NORMAL / SOFT / HARD	SOFT	————	
	LENGTH INTERVAL	0.1 to100.0m	0.5m	————	
	TYPE	NORMAL / SOFT / HARD	SOFT	————	
	TIME INTERVAL	10 to 120 min	10 min	————	
	TYPE	NORMAL / SOFT / HARD	SOFT	————	
INTERVAL WIPING (☞ P.3-10)		3 to 255 minutes, OFF	OFF	————	Sets the wiping operation during printing.
HEAD GAP (☞ P.2-5)		1.5 to 7.0mm	2.0 mm	————	Sets the head gap.

*1. This is the setting value to be used for printing when setting value is not specified at the RIP software (host) side, or, you give priority to the setting value at the machine side, even if you set "Host" to the type registration of this machine.

*2. When you set this to "100%" or more, required time for completion of printing will be shortened. However, enough drying time cannot be ensured and it may affect the image quality.

*3. The initial value is "Separated (20.0 mm), SOFT" only during Sb300 filling.

Setting Heater

Set the heater temperature (PRINT/ POST ①/ POST ②) and ON/ OFF of the external heater.

💡 • You can change the heater temperature and ON/ OFF of the external heater by pressing the
(HEATER) key. (☞ P.2-26)

---

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP           [ENT[
```

---

2 Press the (ENTER) key.

```
SETUP
FEED COMP.      [ENT]
```

---

3 Press △▽ to select [HEATER].

```
SETUP
HEATER          [ENT]
```

---

4 Press the (ENTER) key.

• The PRINT heater temperature setting screen appears.

```
PRINT
=               OFF
```

---

5 Press △▽ to set the temperature of PRINT heater (20°C to 60°C).

```
PRINT
=               30°C
```

---

6 Press the (ENTER) key.

• The POST1 heater temperature setting screen appears.

```
POST1
=               OFF
```

---

7 Press △▽ to set the temperature of POST1 heater (20°C to 60°C).

```
POST1
=               30°C
```

---

8 Press the (ENTER) key.

• The POST2 heater temperature setting screen appears.

```
=               OFF
```

---

9 Press △▽ to set the temperature of POST2 heater (20°C to 70°C).

```
POST2
=               30°C
```

---

10 Press the (ENTER) key.

• The external heater setting screen appears.

```
EXTERNAL HERTER
=OFF
```

---

11 Press △▽ to select ON/OFF.

• When you set this "ON", the external heater is lit during printing.

```
EXTERNAL HERTER
=ON
```

---

12 Press the (ENTER) key.

```
SETUP
HEATER          [ENT]
```

---

13 Press the (END) key several times to end the setting.

Setting Logical Seek

The motion of Head varies depending on the set of Logical-seek.

| Important! | • You cannot specify the logical seek at the RasterLink side. When you set this machine to "Host", printing will be performed in "LOGICAL SEEK=ON" status. |
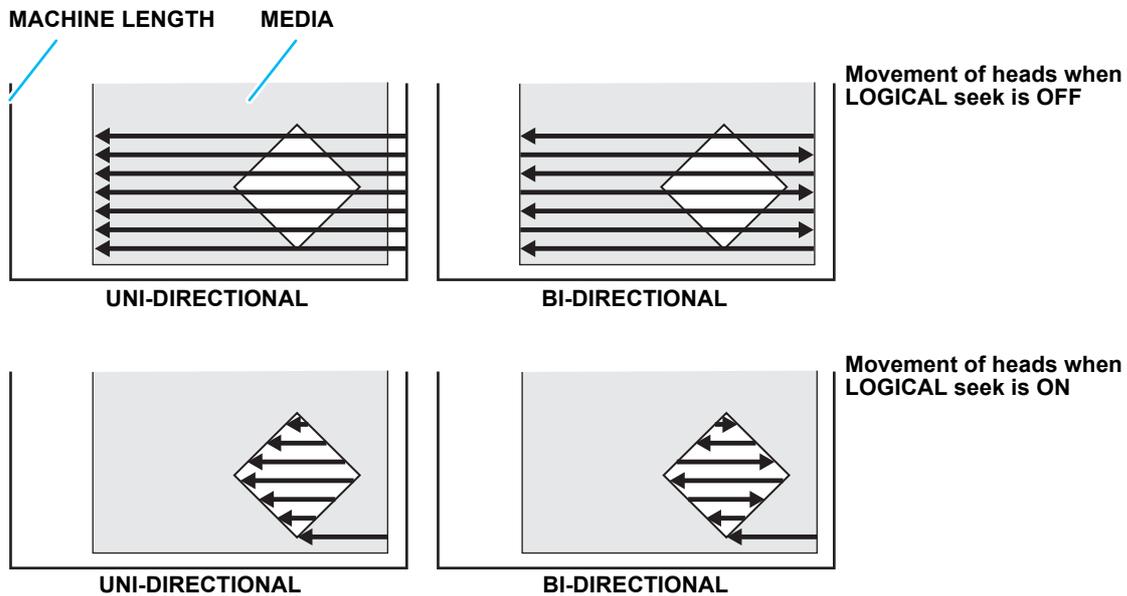
MACHINE LENGTH   MEDIA

Movement of heads when
LOGICAL seek is OFF

UNI-DIRECTIONAL   BI-DIRECTIONAL

Movement of heads when
LOGICAL seek is ON

UNI-DIRECTIONAL   BI-DIRECTIONAL

---

1 | **Press the (FUNCTION) key in LOCAL.** | FUNCTION
SETUP   [ENT[

---

2 | **Press the (ENTER) key.** | SETUP
FEED COMP.   [ENT]

---

3 | **Press ▲▼ to select [LOGICAL SEEK].** | SETUP
LOGICAL SEEK   [ENT]

---

4 | **Press the (ENTER) key.** | LOGICAL SEEK
:HOST

---

5 | **Press ▲▼ to select a set value.**
• **Set value** : HOST / ON / OFF | LOGICAL SEEK
:ON

---

6 | **Press the (ENTER) key.** | SETUP
LOGICAL SEEK   [ENT]

---

7 | **Press the (END) key several times to end the setting.** |

Setting Drying Time

In the drying time setting, the ink drying time for each scanning is set. (During bidirectional printing, the machine stops for a certain period of time specified for each of the outward and return scanning.).

> **Important!**
> • When you give priority to the setting at the RasterLink side, make the setting value "Host".
> • "SCAN" set in this machine is displayed as "Pause Time per Scan" in the RasterLink.

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP            [ENT]
```

2 Press the (ENTER) key.

```
SETUP
FEED COMP.       [ENT]
```

3 Press ▲▼ to select [DRYING TIME].

```
SETUP
DRYING TIME      [ENT]
```

4 Press the (ENTER) key.

```
SCAN
=                HOST
```

5 Press ▲▼ to set drying time for scanning.
• To enable the drying time specified in your RIP, select "Host".
• **Scanning setting value** : Host or 0.0 sec. to 9.9 sec.

```
SCAN
=                HOST
```

6 Press the (ENTER) key.

```
SETUP
DRYING TIME      [ENT]
```

7 Press the (END) key several times to end the setting.

Setting Margins

Set a non-printing area along the right and left edges of the media.
The offset value against the standard margin 15mm is set hereupon.

Important!	• When you give priority to the setting at the RIP software side, make the setting value "Host". • You cannot specify the margins at the attached RIP software (RasterLink). When you use the RasterLink, if you set this machine to "Host", printing will be performed in "Margins for right and left off set value= 0 mm" status.

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP             [ENT]
```

2 Press the (ENTER) key.

```
SETUP
FEED COMP.        [ENT]
```

3 Press (▲)(▼) to select [MARGIN].

```
SETUP
MARGIN            [ENT]
```

4 Press the (ENTER) key.

```
LEFT
=                  0mm
```

5 Press (▲)(▼) to set the left margins.

• This was set to "HOST" (RIP software side setting has priority) before shipping. Change this when you want to set the left margin of media to the setting value of this machine.
Set Value : HOST or -10 to 85mm (in 1mm increment)

```
LEFT
=                 HOST
```

6 Press the (ENTER) key.

```
RIGHT
=                  0mm
```

7 Press (▲)(▼) to set the right margins.

• This was set to "HOST" (RIP software side setting has priority) before shipping. Change this when you want to set the right margin of media to the setting value of this machine.
Set Value : HOST or -10 to 85mm (in 1mm increment)

```
RIGHT
=                 HOST
```

8 Press the (ENTER) key.

```
SETUP
MARGIN            [ENT]
```

9 Press the (END) key several times to end the setting.

⚠ Caution	• Pay attention to that printing may start on the media press if a right and left margin is set to 5 mm or less when the media press is used in printing.

In case that feeding stripes cannot be resolved even though media correction (P.2-32) is performed, make "MAPS" (Mimaki Advanced Pass System) valid. Feeding stripes become less visible by distributing the pass boundary. (Supported from the firmware ver.1.10)

- MAPS effect differs depending on the set value of the printing speed. Use it after checking effect in advance.
- When you speed up the printing speed, it takes shorter time to print. However, MAPS effect becomes weak.
- When you slow down the printing speed, it takes longer time to print. However, MAPS effect becomes strong and feeding stripes become less visible.
- When printing, if you set the printing speed to 0% and more, MAPS becomes invalid. In addition, it prints at 0% speed. When you use MAPS, set the printing speed to "minus (-)".

For 4-color

Resolution	Pass	Scan speed
300 x 300	1 pass	Normal speed
300 x 300 HQ	2 pass	Normal speed
300 x 450 HQ	3 pass	Normal speed
600 x 600	2 pass	Normal speed
	4 pass	High speed
600 x 900	3 pass	Normal speed
	6 pass	High speed
600 x 1200	4 pass	Normal speed
	8 pass	High speed

For more than 6-color

Resolution	Pass	Scan speed
300 x 300	2 pass	Normal speed
300 x 300 HQ	4 pass	Normal speed
600 x 450	3 pass	Normal speed
	6 pass	High speed
600 x 600	4 pass	Normal speed
	8 pass	High speed
600 x 900	6 pass	Normal speed
	12 pass	High speed
600 x 1200	8 pass	Normal speed
	16 pass	High speed

1 **Press the** (FUNCTION) **key in LOCAL.**

```
FUNCTION
SETUP          [ENT]
```

2 **Press the** (ENTER) **key.**

```
SETUP
FEED COMP.     [ENT]
```

3 **Press** (▲)(▼) **to select [MAPS].**

```
SETUP
MAPS           [ENT]
```

4 **Press the** (ENTER) **key.**

```
MAPS
:OFF
```

5 **Press** (▲)(▼) **to set ON/OFF.**
- Set Value : ON/OFF

```
MAPS
:ON
```

6 **Press the** (ENTER) **key.**
- When you select OFF, proceed to the Step 9.

```
PRINT SPEED ADJUST
=              0%
```

7 **Press** (▲)(▼) **to change print speed.**
- Set Value : -50 to +50%

```
PRINT SPEED ADJUST
=             10%
```

Important! • When you change the speed, nozzle recovery effect cannot work in some cases. Use it after checking.

3

Convenient use

8 Press the (ENTER) key.

SETUP
MAPS   [ENT]

9 Press the (END) key several times to end the setting.

Setting Auto Cleaning

You can set the machine so that it counts the number of printed files or the length or time after printing has been completed, and performs cleaning automatically if required.
You can select the auto cleaning setting from three types below:
- PAGE : Set the cleaning intervals by the number of printed files.
- LENGTH : Set the cleaning intervals by the printed length.
- TIME : Set the cleaning intervals by the printed time.

The machine can perform a stable printing operation with its heads always kept clean.

1　**Press the (FUNCTION) key in LOCAL.**

```
FUNCTION
SETUP          [ENT]
```

2　**Press the (ENTER) key.**

```
SETUP
FEED COMP.     [ENT]
```

3　**Press (▲)(▼) to select [AUTO CLEANING] and press the (ENTER) key.**

```
AUTO CLEANING
:OFF
```

4　**Press (▲)(▼) to select the type of auto cleaning.**

```
AUTO CLEANING
:LENGTH
```

- There are "PAGE", "LENGTH" and "TIME" for auto cleaning.
  - PAGE : When the set number of prints has been completed, the machine performs head cleaning automatically.
  - LENGTH : When the set length has passed, the machine performs head cleaning automatically.
  - TIME : When the set time has passed, the machine performs head cleaning automatically.
- If you do not set auto cleaning, first select "OFF" and then proceed to the Step 10.

5　**Press the (ENTER) key.**

6　**Press (▲)(▼) to set the cleaning interval.**

```
INTERVAL
=          10.0m
```

- Depending on the auto cleaning type selected in the Step 5, the setting value differs.
  - For PAGE : 1 to 1000 page
  - For LENGTH : 0.1 to 100.0m (in 0.1m increment)
  - For TIME : 10 to 120min (in 10min increment)

7　**Press the (ENTER) key.**

```
TYPE
:SOFT
```

8　**Press (▲)(▼) to set the cleaning type.**

```
TYPE
:NORMAL
```
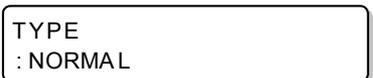
Set Value : NORMAL/ SOFT/HARD

9　**Press the (ENTER) key.**

10　**Press the (END) key several times to end the setting.**

Important!
- Depending on the state of the heads, etc., the image quality deterioration may not be improved even with this function performed.In this case, contact our service office or the distributor in your region.

Setting nozzle face cleaning time

When the set time has passed, nozzle face of the head is cleaned automatically to remove ink droplets on the nozzle face.
In case that deflection, nozzle missing, or symptom which ink droplets fall down occurred, make the interval between each operation shorter.

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP            [ENT]
```

2 Press the (ENTER) key.

```
SETUP
FEED COMP.       [ENT]
```

3 Press ▲ ▼ to select [INTERVAL WIPING].

```
SETUP
 INTERVAL WIPING[ENT]
```

4 Press the (ENTER) key.

```
INTERVAL WIPING
:OFF
```

5 Press ▲ ▼ to set intervals.

• Set Value : 3 to 255 Minutes, OFF
• When [OFF] is set, periodical wiping is not executed.

```
INTERVAL WIPING
:OFF
```

6 Press the (ENTER) key.

```
SETUP
INTERVAL WIPING[ENT]
```

7 Press the (END) key several times to end the setting.

Other Settings

Change the settings according to the types of use.

1 **Press the (FUNCTION) key in LOCAL.**

```
FUNCTION
SETUP          [ENT]
```

2 **Press the (ENTER) key.**

```
SETUP
FEED COMP.     [ENT]
```

3 **Press (▲)(▼) to select an item for setting.**

• Select it, referring to P.3-2 "List of Functions".

4 **Press the (ENTER) key.**

5 **Press (▲)(▼) to select the setting value.**

• Select it, referring to P.3-2 "List of Functions".

6 **Press the (ENTER) key.**

7 **Press the (END) key several times to end the setting.**

(Important!) • The set value is retained even when the power is turned "OFF".

Machine settings are functions for using this machine easily.
The following items can be set in Machine settings.

Item		Set value	Default	Meaning
AUTO Power-off (☞ P.3-14)		NONE/ 10 ~ 600min	NONE	When no operation has been performed for the set time, the power supply is automatically turned "OFF".
Feeding/ TakeUp (☞ P.3-15)	FEED	ON / OFF	OFF	Set whether you use the take-up/ feeding unit or not. When you print on the leaf media or you want to use the take-up unit only, perform setting of Feeding and TakeUp separately.
	ROLL	ON / OFF	OFF	
MEDIA REMAIN (☞ P.3-16)		ON / OFF	OFF	You can control the remaining amount of media.
TIME SET (☞ P.3-18)		+4h ~ -20h	Japan time	Time difference is corrected.
UNIT (☞ P.3-19)	TEMP.	°C (Centigrade) /°F (Fahrenheit)	°C	A unit for displaying temperature is set.
	LENGTH	mm / inch	mm	A unit for displaying length and area is set.
KEY BUZZER (☞ P.3-20)		OFF / ON	ON	A buzzer sound when keys are pressed is set.
HEAD SELECT (☞ P.3-21)		ALL HEAD line 1 HEAD line 2 HEAD line 3 HEAD line 1 & 2 HEAD line 2 & 3	ALL	If a trouble such as nozzle clogging cannot be solved, you can print only with the head without the trouble.
MEDIA DETECT (☞ P.3-23)	THICKNESS DETECT	AUTO/MANUAL	AUTO	When you enter any media thickness at setting the media or when the media thickness sensor has an error, set this to "MANUAL".
DRYING FEED (☞ P.3-24)		OFF/100 to 1000mm	OFF	To dry evenly up to the back edge of the printing data, set the length to be fed after printing has been completed.
	BACKWARD FEED	ON/OFF	ON	
View Feed (☞ P.3-25)		OFF/100 ~ 1000mm	OFF	Set to feed media to check the print results such as test prints.
	BACKWARD FEED	ON/OFF	ON	
SPACE BTWN PP. (☞ P.3-26)		OFF/10 to 500mm	OFF	Sets the amount of blank space between printed lines.
Space Feed Mode (☞ P.3-27)		INTERMITTENT/ CONTINUOUS	INTERMITTENT	Change the feed mode of the margin included in the image data.
NETWORK & MAIL	NETWORK (☞ P.3-28)	Set the network.		
		IP Address		The IP address currently used by this machine is displayed.
		MAC Address		The IP address currently used by this machine is displayed.
		DHCP	ON / OFF		When it is ON, the IP address given by the DHCP server is used.
		AutoIP	ON / OFF		When it is ON, the IP address is determined by the AutoIP protocol. However, DHCP is ON, DHCP has priority.
		IP Address *1	Set the IP address used by this machine.	
		Def. Gateway *1	Set the default gateway used by this machine.	
		DNS Address *1	Set the DNS server address used by this machine.	
		SubNet Mask *1	Set the digit number of the subnet mask used by this machine.	

Item			Set value		Default	Meaning
NETWORK & MAIL	EVENT MAIL (☞ P.3-30)	Mail Deliverry	ON / OFF		OFF	Set whether you send/ do not send the e-mail when the set event occurs.
		Select Event	Print Start Event	ON / OFF	OFF	Set whether you send/ do not send the e-mail at the start of printing.
			Print End Event	ON / OFF	OFF	Set whether you send/ do not send the e-mail at the end of printing.
			Warning Event	ON / OFF	OFF	Set whether you send/ do not send the e-mail when a warning occurs.
			Other Event	ON / OFF	OFF	Set whether you send/ do not send the e-mail when an event other than the above occurs.
		Mail Address	Set the e-mail address to which you send the event mail.		Alphanumeric characters and symbols (within 96 characters)	
		Message Subject	Set the characters to write in the subject of the event mail.		Alphanumeric characters and symbols (within 8 characters)	
		Server Setup	SMTP Address		Set the SMTP server.	
			SMTP PORT No.		Set the SMTP port number.	
			SENDER ADDRESS		Set the e-mail address to be used as the sender mail address.	
			Auth.	POP before SMTP	Set the SMTP server authentication method (SMTP authentication).	
				SMTP Auth		
				OFF		
			USER NAME *2		Set the user name used for the authentication.	
			PASS WORD *2		Set the password used for the authentication.	
			POP3 ADDRESS *3		Set the POP server.	
			APOP *3		Set ON/ OFF of APOP.	
		Transmit Test	Send the test e-mail.			
	SETTING LOCK (☞ P.3-40)	LOCK (Password is not set)	0000 to 9999		0000	You can freely specify a four digit password so that no one other than an administrator can perform network and mail settings.
		UNLOCK (Password is set)				
LANGUAGE (☞ P.3-22)			English ニホンゴ Deutsch Français Español Italiano Português		English	Displayed language is changed.
RESET(☞ P.3-42)			———————		———	All setting values are returned to the status default.

*1. Settable when both of DHCP and AutoIP are [OFF]
*2. Settable only when Auth. is not OFF
*3. Settable only when Auth. is POP before SMTP

3

Convenient use

Setting a AUTO Power-off

When no operation has been performed for the set time, the power supply is automatically turned "OFF".

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP          [ENT]
```

2 Press ▲▼ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP  [ENT]
```

3 Press the (ENTER) key twice.

```
AUTO Power-off
=              30min
```

4 Press ▲▼ to set time to turn OFF the power supply.

• Set Value : none, 10 to 600min

```
AUTO Power-off
=              60min
```

5 Press the (ENTER) key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

6 Press the (END) key several times to end the setting.

(Important!) • If it has received data from the PC in the auto-power-off status, the power supply is turned on, however, the printing operation does not start automatically.

Setting the feeding and take up

Set whether you use the take-up/ feeding unit or not. When you print on the leaf media or you want to use the take-up unit only, perform setting of Feeding and TakeUp separately.

1 **Press the (FUNCTION) key in LOCAL.**

```
FUNCTION
SETUP          [ENT]
```

2 **Press (▲)(▼) to select [MACHINE SETUP].**

```
FUNCTION
MACHINE SETUP  [ENT]
```

3 **Press the (ENTER) key.**

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 **Press (▲)(▼) to select [Feeding/TakeUp].**

```
MACHINE SETUP
Feeding/TakeUp [ENT]
```

5 **Press the (ENTER) key.**

```
FEED
:OFF
```

6 **Press (▲)(▼) to select ON/OFF.**

```
FEED
:ON
```

7 **Press the (ENTER) key.**

```
ROLL
:OFF
```

8 **Press (▲)(▼) to select ON/OFF.**

```
ROLL
:ON
```

9 **Press the (ENTER) key.**

10 **Press the (END) key several times to end the setting.**

3

Convenient use

Setting the Display of Media Residual

Whether the screen displays the remaining amount of a media is set.

When the media remaining amount display is turned to "ON"	the remaining amount of a media is displayed in Remote. (However, when a leaf media is used, the length of the media to be printed is displayed.)
When the media remaining amount display is turned to "OFF"	the remaining amount of a media is not displayed in the Remote.

- The amount of a media that has been fed by the printing and jog keys is reflected in the remaining amount of a media.
- The length of a media (initial value of the remaining amount) is entered when a roll media is detected.(P.2-18)
- The setting configured here does not become effective unless media detection is performed after the setting has been complete.

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP            [ENT]
```

2 Press △ ▽ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP   [ENT]
```

3 Press the (ENTER) key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press △ ▽ to select [MEDIA REMAIN].

```
MACHINE SETUP
MEDIA REMAIN    [ENT]
```

5 Press the (ENTER) key.

```
MEDIA REMAIN
:OFF
```

6 Press △ ▽ to select ON/OFF.

```
MEDIA REMAIN
:ON
```

7 Press the (ENTER) key.

```
MACHINE SETUP
MEDIA REMAIN    [ENT]
```

8 Press the (END) key several times to end the setting.

Printing the Remaining Amount of a Media

The present remaining amount of a media can be printed.

- Set "Remaining amount of a media to display" to "ON".
- When you replace the media you use now with another, it is recommended that you print the remaining amount of the media on it. With the remaining amount of a media having been printed beforehand, when you use the replaced media again, you can enter an accurate value in the screen for entering the remaining amount of a media (☞ P.2-18) that appears after media detection.

1 In LOCAL, Press ▲▼◀▶.
- LOCAL changes to the origin setting mode.

```
ORIGIN SETUP
0.0      ----
```

2 Press ▲▼◀▶ to change the value of the origin.
- Move the carriage and media with ▲▼◀▶ and set the origin.
- When you do not change the origin, do not press ▲▼◀▶ and proceed to Step 3.
- When you press the ENTER key here, the origin is changed, and the screen returns to LOCAL.

```
ORIGIN SETUP
0.0       0.0
```
Origin (Length)   Origin (Width)

3 Press the REMOTE key.
- When you press ▲▼◀▶ , the screen returns to Step 2.
- When you press the END key, the screen returns to LOCAL.

```
MEDIA REMAIN PRINT
           [ENT]
```

4 Press the ENTER key.
- The remaining amount of a media starts to be printed.
- When the printing has been completed, the screen returns to LOCAL.

Important! • When the remaining amount of a media has been printed with the origin changed, the origin set here is effective even when subsequent data are printed.

Setting Time

You can set time of your country (time difference).

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP          [ENT]
```

2 Press ▲▼ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP  [ENT]
```

3 Press the (ENTER) key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press ▲▼ to select [TIME SET].

```
MACHINE SETUP
TIME SET       [ENT]
```

5 Press the (ENTER) key.

```
TIME SET
2012.10.05  21:30:00
```
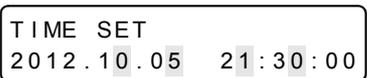
6 Press ▲▼◄► to enter time.

　Year/Month/Day/Time selecting : by the ◄► keys.
　Year/Month/Day/Time inputting : by the ▲▼ keys.

7 Press the (ENTER) key.

　• The entered date is displayed.

```
TIME SET
2012.10.05  15:30:00
```
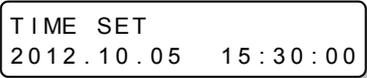
8 Press the (END) key several times to end the setting.

• -20 hours to +4 hours can be set.

3-18

Setting Units

Units used by this machine are set.

1 Press the key (FUNCTION) in LOCAL.

```
FUNCTION
SETUP            [ENT]
```

2 Press (▲)(▼) to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP    [ENT]
```

3 Press the (ENTER) key.

```
MACHINE SETUP
AUTO Power-off  [ENT]
```

4 Press (▲)(▼) to select [UNIT].

```
MACHINE SETUP
UNIT             [ENT]
```

5 Press the (ENTER) key.

```
TEMP.
: °C
```

6 Press (▲)(▼) to select a unit of the temperature.

  • **Set value** : °C / °F

7 Press the (ENTER) key.

```
LENGTH
: mm
```

8 Press (▲)(▼) to select a unit of the length.

  • **Set value** : mm / inch

9 Press the (ENTER) key.

```
MACHINE SETUP
UNIT             [ENT]
```

10 Press the (END) key several times to end the setting.

3

Convenient use

Setting a KEY BUZZER

You can turn off the buzzer sound when pressing the key.

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP          <ENT>
```

2 Press ▲▼ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP  [ENT]
```

3 Press the (ENTER) key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press ▲▼ to select [KEY BUZZER].

```
MACHINE SETUP
KEY BUZZER     [ENT]
```

5 Press the (ENTER) key.

```
KEY BUZZER
:ON
```

6 Press ▲▼ to select ON/OFF.

```
KEY BUZZER
:OFF
```

7 Press the (ENTER) key.

```
MACHINE SETUP
KEY BUZZER     [ENT]
```

8 Press the (END) key several times to end the setting.

💡 • When the key buzzer is set to "OFF", the buzzer sound for errors, warnings, operation completion, etc. cannot be shut off.

Selecting the head line to use

If troubles such as the nozzle clogging is not solved, you can print with another head which has no error.

1 Press the (FUNCTION) key in LOCAL.
```
FUNCTION
SETUP          <ENT>
```

2 Press ▲▼ to select [MACHINE SETUP].
```
FUNCTION
MACHINE SETUP  [ENT]
```

3 Press the (ENTER) key.
```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press ▲▼ to select [HEAD SELECT].
```
MACHINE SETUP
HEAD SELECT    [ENT]
```

5 Press the (ENTER) key.
```
HEAD SELECT
:ALL
```

6 Press ▲▼ to select a head to use.
```
HEAD SELECT
:HEAD line1
```
Set value:ALL/ HEAD line 1/ HEAD line 2/ HEAD line 3/ HEAD line 1 & 2/ HEAD line 2 & 3

7 Press the (ENTER) key.
```
MACHINE SETUP
HEAD SELECT    [ENT]
```

8 Press the (END) key several times to end the setting.

3

Convenient use

Setting a LANGUAGE

You can change the displayed language.

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP          [ENT]
```

2 Press ▲▼ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP  [ENT]
```

3 Press the (ENTER) key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press ▲▼ to select [LANGUAGE].

```
MACHINE SETUP
LANGUAGE       [ENT]
```

5 Press the (ENTER) key.

```
LANGUAGE
:English
```

6 Press ▲▼ to select language.

• **Set Value**： ニホンゴ / English / Deutsch / Français / Español / Italiano / Português

```
MEDIA SIDUAL
:ニホンゴ゛
```

7 Press the (ENTER) key.

```
MACHINE SETUP
LANGUAGE       [ENT]
```

8 Press the (END) key several times to end the setting.

Setting a MEDIA DETECT

When you enter any media thickness at setting the media or when the media thickness sensor has an error, set this to "MANUAL".

1	Press the FUNCTION key in LOCAL.	``` FUNCTION SETUP <ENT> ```
2	Press ▲▼ to select [MACHINE SETUP].	``` FUNCTION MACHINE SETUP [ENT] ```
3	Press the ENTER key.	``` MACHINE SETUP AUTO Power-off [ENT] ```
4	Press ▲▼ to select [MEDIA DETECT].	``` MACHINE SETUP MEDIA DETECT [ENT] ```
5	Press the ENTER key.	``` THICKNESS DETECT :AUTO ```
6	Press ▲▼ to select "AUTO" or "MANUAL".	``` THICKNESS DETECT :MANUAL ```
7	Press the ENTER key.	``` MACHINE SETUP MEDIA DETECT [ENT] ```
8	Press the END key several times to end the setting.	

3

Convenient use

Setting a DRYING FEED

To dry evenly up to the back edge of the printing data, set the length to be fed after printing has been completed. Depending to your external heater position, set it so that the data end may be fed until it passes the external heater.

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP          <ENT>
```

2 Press ▲▼ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP  [ENT]
```

3 Press the (ENTER) key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press ▲▼ to select [DRYING FEED].

```
MACHINE SETUP
DRYING FEED    [ENT]
```

5 Press the (ENTER) key.

```
DRYING FEED
=          300mm
```

6 Press ▲▼ to select the feeding length.

　• **Set value** : OFF / 100 to 1000mm

```
DRYING FEED
=          600mm
```

7 Press the (ENTER) key.

```
BACKWARD FEED
:ON
```

8 Press ▲▼ and set whether you perform backward feed after dry feed or not.

　• **Set value** : ON/OFF

```
BACKWARD FEED
:OFF
```

9 Press the (ENTER) key.

```
MACHINE SETUP
DRYING FEED    [ENT]
```

10 Press the (END) key several times to end the setting.

3-24

Setting a View Feed

Set to feed media to check the print results such as test prints.

1 Press the _____ key in LOCAL.

```
FUNCTION
SETUP          <ENT>
```

2 Press _____ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP  [ENT]
```

3 Press the _____ key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press _____ to select [View Feed].

```
MACHINE SETUP
View Feed      [ENT]
```

5 Press the _____ key.

```
View Feed
=              OFF
```

6 Press _____ to select ON or OFF.

• **Set value** : ON / OFF

```
View Feed
=              ON
```

7 Press the _____ key.

```
BACKWARD FEED
:ON
```

8 Press _____ and set whether you perform backward feed after dry feed or not.

• **Set value** : ON/OFF

```
BACKWARD FEED
:OFF
```

9 Press the _____ key.

```
MACHINE SETUP
View Feed      [ENT]
```

10 Press the _____ key several times to end the setting.

3

Convenient use

Setting the amount of blank space between printed lines

Sets the amount of blank space between printed lines.

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP          <ENT>
```

2 Press ▲ ▼ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP   [ENT]
```

3 Press the (ENTER) key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press ▲ ▼ to select [SPACE BTWN PP.].

```
MACHINE SETUP
SPACE BTWN PP. [ENT]
```

5 Press the (ENTER) key.

```
SPACE BTWN PP.
=               OFF
```

6 Press ▲ ▼ to set the amount of blank space.
 • **Set value** : OFF / 10 to 500mm

```
SPACE BTWN PP.
=             100mm
```

7 Press the (ENTER) key.

```
MACHINE SETUP
SPACE BTWN PP. [ENT]
```

8 Press the (END) key several times to end the setting.

Important! **Back-feed operation is performed when printing ends if the amount of blank space is set in the decreasing direction.**
Be careful of the following in such cases.
 • If media is set in the roll holder without using the feeding device on the back of the printer, the media tension of the next printing will change due to back-feed, possibly causing the feed rate of the media of only the leading edge of the printed image to change. In such cases, manually rewind the media.
 • This function is disabled if back-feed after drying feed is set to OFF in the machine settings "DRYING FEED" (P.3-24).
 • If the printed data already has a blank space, using this function will result in "Blank space of the data + Amount of blank space set by using this function" being output as a blank space.

Setting the feed mode of the space of no data to be printed

Change the feed mode of the margin included in the image data (the space of no data to be printed). If print data with much margin, set to "CONTINUOUS", then the print time can be shorten.

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP          <ENT>
```

2 Press ▲▼ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP   [ENT]
```

3 Press the (ENTER) key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press ▲▼ to select [SPACE BTWN PP.].

```
MACHINE SETUP
Space Feed Mode[ENT]
```

5 Press the (ENTER) key.

```
Space Feed Mode
=        INTERMITTENT
```

6 Press ▲▼ to set the feed mode.

  INTERMITTENT : Perform intermittent feed operation of the path division unit
  CONTINUOUS **:** Feed the no data part at a time

```
Space Feed Mode
=        CONTINUOUS
```

7 Press the (ENTER) key.

```
MACHINE SETUP
SPACE BTWN PP. [ENT]
```

8 Press the (END) key several times to end the setting.

Set the network

You can also perform network setting with "Network Configurator", the tool to perform network setting of Mimaki's product. To download the Network Configurator, check " Driver / Utility" on the download page at Mimaki Engineering (http://mimaki.com/download/).

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP              [ENT]
```

2 Press ▲▼ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP   [ENT]
```

3 Press the (ENTER) key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press ▲▼ to select [NETWORK & MAIL].

```
MACHINE SETUP
NETWORK & MAIL [ENT]
```

5 Press the (ENTER) key twice.

```
NETWORK
Check IP Addr. [ENT]
```

6 Press the (ENTER) key.
• The IP address currently used by this machine is displayed.

```
Check IP Address
 10. 16.168.235
```

💡 • After connecting with the network, it takes time until the IP address is determined.
If the IP address has not been determined, "0.0.0.0" is displayed.

7 Press the (ENTER) key.

```
NETWORK
Check IP Addr. [ENT]
```

8 Press ▲▼ to select [Check MAC Addr.].

```
NETWORK
Check MAC Addr.[ENT]
```

9 Press the (ENTER) key.
• The MAC address currently used by this machine is displayed.

```
Check MAC Address
00:0d:1b:00:00:00
```

10 Press the (ENTER) key.

```
NETWORK
Check MAC Addr.[ENT]
```

11 Press ▲▼ to select [DHCP].

```
NETWORK
DHCP              [ENT]
```

12 **Press the ⟨ENTER⟩ key.**

• Press ⟨▲⟩⟨▼⟩ to set ON/ OFF.
• When it is ON, the IP address given by the DHCP server is used.

```
DHCP
: ON
```

13 **Press the ⟨ENTER⟩ key.**

```
NETWORK
DHCP            [ENT]
```

14 **Press ⟨▲⟩⟨▼⟩ to select [AutoIP].**

```
NETWORK
AutoIP          [ENT]
```

15 **Press the ⟨ENTER⟩ key.**

• Press ⟨▲⟩⟨▼⟩ to set ON/ OFF.
• When it is ON, the IP address is determined by the AutoIP protocol. However, DHCP is ON, DHCP has priority.

```
AutoIP
: ON
```

16 **Press the ⟨ENTER⟩ key.**

```
NETWORK
AutoIP          [ENT]
```

17 **Press ⟨▲⟩⟨▼⟩ to select the set values.**

• Both of DHCP and AutoIP is OFF, you can set IP Address/ Default Gateway/ DNS Address/ Sub Net Mask. For other than above, proceed to the Step 21.

18 **Press the ⟨ENTER⟩ key.**

19 **Press ⟨▲⟩⟨▼⟩⟨◀⟩⟨▶⟩ to select the set values.**

20 **Press ⟨ENTER⟩ to confirm the value.**

21 **Press the ⟨END⟩ key several times for terminating this function.**

• To reflect network setting, once turn off the power supply and then turn it on again.

Setting event mail function

Set the function to send e-mails to the set e-mail address when events such as cutting start/ end and stop due to an error.

You can also perform event mail function setting with "Network Configurator", the tool to perform network setting of Mimaki's product. To download the Network Configurator, check " Driver / Utility" on the download page at Mimaki Engineering (http://mimaki.com/download/).

Disclaimer
- The customer is responsible for the communication fee for Internet communication such as e-mail notification.
- The notification by the event mail function may not be delivered due to Internet environment, failure of the device/ the power supply, etc. Mimaki has absolutely no responsibility for any damages or loss resulting from non-delivery or delays.

Important!
- You can use event mail function by connecting LAN to this machine. Please prepare for LAN cable connection beforehand.
- Not compatible with SSL communication.

Enable the event mail function

1   Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP           [ENT]
```

2   Press ▲▼ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP   [ENT]
```

3   Press the (ENTER) key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4   Press ▲▼ to select [NETWORK & MAIL].

```
MACHINE SETUP
NETWORK & MAIL [ENT]
```

5   Press the (ENTER) key.

```
NETWORK & MAIL
NETWORK         [ENT]
```

6   Press ▲▼ to select [EVENT MAIL].

```
NETWORK & MAIL
EVENT MAIL      [ENT]
```

7   Press the (ENTER) key.

```
EVENT MAIL
Mail Delivery   [ENT]
```

8   Press the (ENTER) key.

```
Mail Delivery
:OFF
```

9	Press ⬆⬇ to select "ON".	`Mail Delivery` `:ON`
10	Press the (ENTER) key.	`EVENT MAIL` `Mail Delivery  [ENT]`
11	Press the (END) key several times for terminating this function.	

Set the event to send an event mail

1	Press the (FUNCTION) key in LOCAL.	`FUNCTION` `SETUP          [ENT]`
2	Press ⬆⬇ to select [MACHINE SETUP].	`FUNCTION` `MACHINE SETUP  [ENT]`
3	Press the (ENTER) key.	`MACHINE SETUP` `AUTO Power-off [ENT]`
4	Press ⬆⬇ to select [NETWORK & MAIL].	`MACHINE SETUP` `NETWORK & MAIL [ENT]`
5	Press the (ENTER) key.	`NETWORK & MAIL` `NETWORK        [ENT]`
6	Press ⬆⬇ to select [EVENT MAIL].	`NETWORK & MAIL` `EVENT MAIL     [ENT]`
7	Press the (ENTER) key.	`EVENT MAIL` `Mail Delivery  [ENT]`
8	Press the jog key ⬆ or ⬇ to select [Select Event] .	`EVENT MAIL` `Select Event   [ENT]`
9	Press the (ENTER) key. • Set whether you send/ do not send the e-mail at the start of plotting. • Press ⬆⬇ to set ON/ OFF.	`Print Start Event` `:OFF`

3

Convenient use

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10 Press the ⟨ENTER⟩ key.

• Set whether you send/ do not send the e-mail at the end of plotting.
• Press ⟨▲⟩⟨▼⟩ to set ON/ OFF.

```
Print End Event
:OFF
```

11 Press the ⟨ENTER⟩ key.

• Set whether you send/ do not send the e-mail when the printing operation stops because an error occurs.
• Press ⟨▲⟩⟨▼⟩ to set ON/ OFF.

```
Error Evenn
:OFF
```

12 Press the ⟨ENTER⟩ key.

• Set whether you send/ do not send the e-mail when a warning occurs during printing.
• Press ⟨▲⟩⟨▼⟩ to set ON/ OFF.

```
Warning Event
:OFF
```

13 Press the ⟨ENTER⟩ key.

• Set whether you send/ do not send the e-mail when an event other than the above occurs.
• Press ⟨▲⟩⟨▼⟩ to set ON/ OFF.

```
Other Event
:OFF
```

14 Press the ⟨ENTER⟩ key.

```
EVENT MAIL
Select Event   [ENT]
```

15 Press the ⟨END⟩ key several times for terminating this function.

Set the e-mail address

1 Press the ⟨FUNCTION⟩ key in LOCAL.

```
FUNCTION
SETUP          [ENT]
```

2 Press ⟨▲⟩⟨▼⟩ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP   [ENT]
```

3 Press the ⟨ENTER⟩ key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press ⟨▲⟩⟨▼⟩ to select [NETWORK & MAIL].

```
MACHINE SETUP
NETWORK & MAIL [ENT]
```

5 Press the (ENTER) key.

```
NETWORK & MAIL
NETWORK        [ENT]
```

6 Press (▲)(▼) to select [EVENT MAIL].

```
NETWORK & MAIL
EVENT MAIL     [ENT]
```

7 Press the (ENTER) key.

```
EVENT MAIL
Mail Delivery  [ENT]
```

8 Press (▲)(▼) to select [Mail Address] .

```
EVENT MAIL
Mail Address   [ENT]
```

9 Press the (ENTER) key.

```
Mail Address
```

10 Press (▲)(▼)(◀)(▶) to set mail address.

• Set the e-mail address to which you send the event mail.
• Set it with alphanumeric characters and symbols within 96 characters.

11 Press the (ENTER) key.

```
EVENT MAIL
Mail Address   [ENT]
```

12 Press the (END) key several times for terminating this function.

3

Convenient use

Set the subject

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP            [ENT]
```

2 Press ▲ ▼ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP   [ENT]
```

3 Press the (ENTER) key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press ▲ ▼ to select [NETWORK & MAIL].

```
MACHINE SETUP
NETWORK & MAIL [ENT]
```

5 Press the (ENTER) key.

```
NETWORK & MAIL
NETWORK          [ENT]
```

6 Press ▲ ▼ to select [EVENT MAIL].

```
NETWORK & MAIL
EVENT MAIL       [ENT]
```

7 Press the (ENTER) key.

```
EVENT MAIL
Mail Delivery   [ENT]
```

8 Press ▲ ▼ to select [Masseage Subject] .

```
EVENT MAIL
Massage Subject[ENT]
```

9 Press the (ENTER) key.

```
Massage Subject
TS500-#1         [ENT]
```

10 Press ▲ ▼ ◀ ▶ to set subject

• Set the characters to write in the subject of the event mail.
• Set it with alphanumeric characters and symbols within 8 characters.

11 Press the (ENTER) key.

```
EVENT MAIL
Massage Subject[ENT]
```

12 Press the (END) key several times for terminating this function.

Set the server

1 **Press the** (FUNCTION) **key in LOCAL.**

```
FUNCTION
SETUP          [ENT]
```

2 **Press** (▲)(▼) **to select [MACHINE SETUP].**

```
FUNCTION
MACHINE SETUP  [ENT]
```

3 **Press the** (ENTER) **key.**

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 **Press** (▲)(▼) **to select [NETWORK & MAIL].**

```
MACHINE SETUP
NETWORK & MAIL [ENT]
```

5 **Press the** (ENTER) **key.**

```
NETWORK & MAIL
NETWORK        [ENT]
```

6 **Press** (▲)(▼) **to select [EVENT MAIL].**

```
NETWORK & MAIL
EVENT MAIL     [ENT]
```

7 **Press the** (ENTER) **key.**

```
EVENT MAIL
Mail Delivery  [ENT]
```

8 **Press** (▲)(▼) **to select [Server Setup] .**

```
EVENT MAIL
Server Setup   [ENT]
```

9 **Press the** (ENTER) **key.**

```
SERVER SETUP
SMTP Address   [ENT]
```

10 **Press the** (ENTER) **key.**

• Press the jog key (▲)(▼)(◀)(▶) to set SMTP server.
• Input the SMYP server name.

```
SMTP Address
```

11 **Press the** (ENTER) **key.**

```
SERVER SETUP
SMTP Address   [ENT]
```

12 **Press** (▲)(▼) **to select [SMTP Port No.] .**

```
SERVER SETUP
SMTP Port No.  [ENT]
```

13 **Press the** (ENTER) **key.**

```
SMTP Port No.
:    25
```

3

Convenient use

14 Press ▲▼ to set [SMTP Port] .

• Set the SMTP port number.

15 Press the ⏎ENTER key.

```
SERVER SETUP
SMTP Port No.  [ENT]
```

16 Press the jog key ▲ or ▼ to select [Authentication] .

```
SERVER SETUP
Authentication [ENT]
```

17 Press the ⏎ENTER key.

```
Authentication
:POP before SMTP
```

18 Press ▲▼ to set authentication method .

• Set the authentication method of the SMTP server.
• When you select [OFF], proceed to the Step 32.

```
Authentication
:POP before SMTP
```

19 Press the ⏎ENTER key.

```
SERVER SETUP
Authentication [ENT]
```

20 Press ▲▼ to select [SENDER ADDRESS].

```
SERVER SETUP
SENDER ADDRESS [ENT]
```

21 Press the ⏎ENTER key.

• Press ▲▼◀▶ and set the e-mail address to be used as the sender mail address.
• Set it with alphanumeric characters and symbols within 64 characters.

```
SENDER ADDRESS
```

💡 • Depending on your server, if you do not set the e-mail address not supporting the account, sending/ receiving e-mails may be unavailable.

22 Press the ⏎ENTER key.

```
SERVER SETUP
SENDER ADDRESS [ENT]
```

23 Press ▲▼ to select [User Name].

```
SERVER SETUP
User Name      [ENT]
```

24 Press the ⏎ENTER key.

• Press ▲▼◀▶ to set the user name to use for the authentication.
• Set it with alphanumeric characters and symbols within 30 characters.

```
User Name
```

25 Press the ⏎ENTER key.

```
SERVER SETUP
User Name      [ENT]
```

26 Press ▲ ▼ to select [Pass Word] .

```
SERVER  SETUP
Pass  Word        [ENT]
```

27 Press the (ENTER) key.

• Press ▲ ▼ ◄ ► to set the password to use for the authentication.
• Set it with alphanumeric characters and symbols within 15 characters.

```
Pass  Word
* * * * * * * * * * * * * * *
```

💡 • On the password setting screen, you can only check the value that you are currently inputting.

28 Press the (ENTER) key.

• When you select [POP before SMTP] in the Step 16, set the items in the Step 27 to 31.

```
SERVER  SETUP
Pass  Word        [ENT]
```

29 Press ▲ ▼ to select [POP3 Addr.] .

```
SERVER  SETUP
POP3  Address    [ENT]
```

30 Press the (ENTER) key.

• Press the jog key ▲ ▼ ◄ ► to set POP server.
• Input the POP server name.

```
POP3  Address
```

31 Press the (ENTER) key.

```
SERVER  SETUP
POP3  Address    [ENT]
```

32 Press ▲ ▼ to select [APOP] .

```
SERVER  SETUP
APOP              [ENT]
```

33 Press the (ENTER) key.

• Press ▲ ▼ to set ON/ OFF of APOP.

```
APOP
: ON
```

34 Press the (ENTER) key.

```
SERVER  SETUP
APOP              [ENT]
```

35 Press the (END) key several times for terminating this function.

3

Convenient use

Send a test e-mail

1 Press the `FUNCTION` key in LOCAL.

```
FUNCTION
SETUP            [ENT]
```

2 Press ▲ ▼ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP   [ENT]
```

3 Press the `ENTER` key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press ▲ ▼ to select [NETWORK & MAIL].

```
MACHINE SETUP
NETWORK & MAIL [ENT]
```

5 Press the `ENTER` key.

```
NETWORK & MAIL
NETWORK          [ENT]
```

6 Press ▲ ▼ to select [EVENT MAIL].

```
NETWORK & MAIL
EVENT MAIL       [ENT]
```

7 Press the `ENTER` key.

```
EVENT MAIL
Mail Delivery   [ENT]
```

8 Press ▲ ▼ to select [Transmit Test] .

```
EVENT MAIL
Transmit Test   [ENT]
```

9 Press the `ENTER` key.

```
Transmit Test
EXECUTE          [ENT]
```

10 Press the `ENTER` key.

```
Transmit Test
Success          [ENT]
```

• The sent result is displayed.
• If sending test e-mail has failed, an error code is displayed.
  Refer to the next page to solve the problem.

```
Transmit Test
Failed: 12345    :ent
```

Error code

11 Press the `END` key several times for terminating this function.

Important!
- The sent result of the test e-mail is the result of e-mail sending process performed by this machine to the e-mail server. It does not indicate that the e-mail was received at the address.
- If the spam e-mail filter etc. has been set in the terminal in which e-mails are received, even if "Sending has been completed" is displayed, the e-mail cannot be received in some cases.
- If sending test e-mail has failed, the error code below is displayed.
- If the error cannot be solved, try again after a while.
- For the server setting etc., contact with the network administrator or the provider.

Error Code	The expected casus	Remedy
10	Network connection error	• Check that the machine is connected with the network. • Check that the machine IP address is correct. • Check that the machine is in the environment where DNS is available.
20	No valid e-mail address.	• Enter the correct e-mail address.
11003 11004	The POP server cannot be found. Or cannot access DNS server.	• Check the POP server address. • Check that the machine is in the environment where DNS is available.
11021	Cannot connect with the POP server.	• Check the POP server setting. • Check the firewall setting.
12010	An error returns from the POP server.	• Check the POP server setting.
13000	The POP authentication has failed.	• Check the user name and the password. • Check the APOP setting. • Confirm the authentication method.
10013 10014	The SMTP server cannot be found. Or cannot access DNS server.	• Check the SMTP server address. • Check that the machine is in the environment where DNS is available.
10021	Cannot connect with the SMTP server.	• Check the SMTP server setting. • Check the SMTP port number. • Check the firewall setting.
10∗∗∗ 11∗∗∗ 20∗∗∗ 21∗∗∗	An error returns from the SMTP server.	• Check the SMTP server setting. • Cannot communicate with a server that requires mandatory SSL communication. • Check protocol filter settings.
12∗∗∗	It is invalid sender address.	• Check that the e-mail address supporting the account entered in the user name/ the password is set in SENDER ADDRESS.
13∗∗∗	The e-mail address cannot be found.	• Check the e-mail address. • Even if there is a mistake in the e-mail address, this error cannot be detected in some cases.
22000 22008	SMTP authentication error	• Confirm the authentication method.
23∗∗∗ 24∗∗∗ 25∗∗∗	The SMTP authentication has failed.	• Check the user name and the password.

"∗∗∗" is the error code returned from the e-mail server.

3

Convenient use

Setting the Setting Lock function

You can freely specify a four digit password so that no one other than an administrator can perform network and mail settings.

Specifying the password for the network and event mail functions

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP          [ENT]
```

2 Press ▲▼ to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP  [ENT]
```

3 Press the (ENTER) key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press ▲▼ to select [NETWORK & MAIL].

```
MACHINE SETUP
NETWORK & MAIL [ENT]
```

5 Press the (ENTER) key.

```
NETWORK & MAIL
NETWORK        [ENT]
```

6 Press ▲▼ to select [SETTING LOCK].

```
NETWORK & MAIL
SETTING LOCK   [ENT]
```

7 Press the (ENTER) key.

```
SETTING LOCK
LOCK         :0000
```

8 Specify a freely chosen password (four digits) and press the (ENTER) key.

• A notification that setting has started is briefly displayed.

```
SETTING LOCK
LOCK START   :????
```

9 Press the (END) key several times for terminating this function.

Releasing the password for the network and event mail functions

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP          [ENT]
```

2 Press (▲)(▼) to select [MACHINE SETUP].

```
FUNCTION
MACHINE SETUP   [ENT]
```

3 Press the (ENTER) key.

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 Press (▲)(▼) to select [NETWORK & MAIL].

```
MACHINE SETUP
NETWORK & MAIL [ENT]
```

5 Press the (ENTER) key.

```
NETWORK & MAIL
NETWORK        [ENT]
```

6 Press (▲)(▼) to select [SETTING LOCK].

```
NETWORK & MAIL
SETTING LOCK    [ENT]
```

7 Press the (ENTER) key.

```
SETTING LOCK
UNLOCK         :****
```

8 Enter a four-digit password and press the (ENTER) key.

```
SETTING LOCK
Release Success
```

• The screen on the right is displayed if releasing is a success.

• The screen on the right is displayed to notify of failure if releasing is a failure.

```
SETTING LOCK
Release failure
```

9 Press the (END) key several times for terminating this function.

(Important!) • If you forget the password, you can press the (FUNCTION) key displayed in the screen of Step 7 to display the password forced release screen.
Be careful as although you can press the (ENTER) key to forcibly release the password, items set for the network and event mail also return to their initial values, making it necessary to re-specify them.

3

Convenient use

Initializing the Settings

You can return the setting of "SETUP", "MAINTENANCE" and "MACHINE SETUP" to the status before shipment.

1 **Press the** (FUNCTION) **key in LOCAL.**

```
FUNCTION
SETUP            [ENT]
```

2 **Press** (▲)(▼) **to select [MACHINE SETUP].**

```
FUNCTION
MACHINE SETUP  [ENT]
```

3 **Press the** (ENTER) **key.**

```
MACHINE SETUP
AUTO Power-off [ENT]
```

4 **Press** (▲)(▼) **to select [RESET].**

```
MACHINE SETUP
RESET          [ENT]
```

5 **Press the** (ENTER) **key.**

```
RSET ALL SETTING
OK?            [ENT]
```

6 **Press the** (ENTER) **key.**
• The already configured settings are initialized.

```
RESET
EXECUTE        [ENT]
```

7 **Press the** (END) **key several times to end the setting.**

Confirming Machine Information

The information of this machine can be confirmed.
The following items can be confirmed as machine information.

Item		Description
ERROR HISTORY		This displays the history of errors and warnings to date. When you press ▲ ▼, the date of occurrence (year/month/day/hour/minute) and the error/warning information are displayed alternately in the order of occurrence.
USAGE	WIPING	The information of this machine can be confirmed.
	PRINT LENGTH	
	PRINT AREA	
	USE TIME	
	HEAD MAINT.	
	STATION MAINT.	
	NOZZLE WASH	
	DISWAY WASH	
	CUSTODY WASH	
VERSION		This displays the firmware version for the machine and the information for the main PCB.
LIST		This allows you to print the settings of the machine.
Ink REPL. Report		This prints ink history of this machine.

Check the using status of the machine

You can check machine information such as wiping information and length printed by this machine.

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP              [ENT]
```

2 Press ▲ ▼ to select [INFORMATION].

```
FUNCTION
INFORMATION        [ENT]
```

3 Press the (ENTER) key.

```
INFORMATION
USAGE              [ENT]
```

4 Press the (ENTER) key.
- The wiping Information is displayed.
- Every time you press the (ENTER) key, machine information below are displayed in series.

```
WIPING
=                   0
```

WIPING

Displays wiping information.

```
WIPING
=                   0
```

PRINT LENGTH

Displays printed length up to now.

```
PRINT LENGTH
=                  0m
```

PRINT AREA

Displays printed area up to now.

```
PRINT AREA
=                 0m²
```

USE TIME

Displays used time information of machine.

```
USE TIME
=                  0h
```

3

Convenient use

3-43

HEAD MAINT.
The elapsed time is displayed when HEAD MAINT. is complete.

```
HEAD  MAINT.
=              0h
```

STATION MAINT.
The elapsed time is displayed when STATION MAINT. is complete.

```
STATION  MAINT.
=              0h
```

NOZZLE WASH
The elapsed time is displayed when NOZZLE WASH is complete.

```
NOZZLE  WASH
=              0h
```

DISWAY WASH
The elapsed time is displayed when DISWAY WASH is complete.

```
DISWAY  WASH
=              0h
```

CUSTODY WASH
The elapsed time is displayed when CUSTODY WASH is complete.

```
CUSTODY  WASH
=              0h
```

• When you reset the used count of the wiper, press the (MAINT.) key while WIPING is displayed.
When you press the (ENTER) key, the number of wipings is reset.

```
WIPING
RESET?            [ENT]
```

Check the machine version information

1 Press the (FUNCTION) key in LOCAL.

```
FUNCTION
SETUP          [ENT]
```

2 Press (▲)(▼) to select [INFORMATION].

```
FUNCTION
INFORMATION    [ENT]
```

3 Press the (ENTER) key.

```
INFORMATION
USAGE          [ENT]
```

4 Press (▲)(▼) to select [VERSION].

```
INFORMATION
VERSION        [ENT]
```

5 Press the (ENTER) key.
• The version Information is displayed.

```
TS500-1800    V3.30
MRL-III       V2.20
```

Check the Error History

This section describes how to read error history.

ERROR HISTORY

Displaying the
occurrence date

```
[00000]
 2014/09/26 22:13:00
```

(◀) (▶)

Displaying the contents
of error

```
ERROR  12a
HDC  SPEED
```

Check the Substrate Information

Explains the substrate information.

```
INFORMATION
VERSION         [ENT]
```

(ENTER)

```
TS500-1800    V3.30
MRL-III       V2.20
```
Displays the version information such as F/W or the like.

(ENTER)

```
MAIN PCB      EPL2B
```
Displays the Type of Substrate.

Displays the type of main PCB.
Displays the EPL, EPL2, or EPD2B.

3

Convenient use

3-45

Displaying the Information of this machine

1 | **Press the ⊂ENTER⊃ key in LOCAL.** |
```
Sb300        MMBBYYKK
REMAIN       99999999
```

2 **The information is displayed sequentially with the ⊂ENTER⊃ key .**

• The information shown on the below appear.

Remaining amount of ink	Error (when ink error occurs)	Warning (when warning occurs)

```
Sb300        MMBBYYKK
REMAIN       99999999
```
```
NON  INK  IC
MMBBYYKK
```
```
WARNING
Replace a Wiper[MNT]
```

Media width	Head gap	Media thick

```
MEDIA WIDTH
=            1000mm
```
```
HEAD  GAP
=            2.0mm
```
```
MEDIA  THICKNESS
=            0.1mm
```

Serial No.	Version	Main PCB Information

```
SERIAL No.
:********
```
```
TS500-1800   V3.30
MRL-III      V2.20
```
```
MAIN  PCB      EPL
```

RECOVERY NOZZLE

```
RECOVERY  NOZZLE:*
CONFIRM DETAILS[MNT]
```
Press the ⊂MAINT.⊃ key and confim
the description

3 **Press the ⊂ENTER⊃ key to return to LOCAL.**

Chapter 4
Maintenance

This chapter

describes the items required to use this machine more comfortably, which are the methods for the daily care, the maintenance of the ink unit etc.

Maintenance

Maintain the machine regularly or as necessary so that its accuracy will be maintained and it can continue to be used for a long time.

Precautions for Maintenance

Pay attention to the following items when maintaining this machine.

	• When using cleaning solution for maintenance, be sure to wear the supplied protective glasses.
	• Never disassemble the machine.Disassembling it can result in electric shock hazards or damage to the machine. Before maintenance, be sure to turn off the power button and main power switch, and unplug the power cable;otherwise, an unexpected accident may occur.
	• Prevent moisture from entering the machine.Moisture inside the machine can cause electric shock hazards or damage to the machine.
	• To ensure stable ink jetting, it is necessary for the machine to eject a small amount of ink (flushing) regularly when a printing (outputting) operation has not been performed for a long time. • When the machine is not to be used for a long time, turn off only the power button on the front side, leave the main power switch at the side turned ON (in the position of |), and leave the power cable connected.
	• Do not use benzene, thinner, or any chemical agent containing an abrasive.Such materials can deteriorate or deform the surface of the cover. • Do not apply a lubricant, etc. to any parts inside the machine. Doing so can cause printing failure. • Be careful that the cleaning solution, ink, etc. not to stick to the cover because this may cause the surface of the cover to deteriorate or deform.

About Cleaning Solution

Use the cleaning liquid dedicated for the ink being used.

Type of Ink	Applicable maintenance washings
Sublimation dye ink	Cleaning liquid 03 maintenance kit (ML003-Z-K1)

Cleaning the Exterior Surfaces

When the exterior surfaces of the machine are stained, dampen a soft cloth with water or a neutral detergent diluted with water, squeeze it, and wipe the surfaces with the cloth.
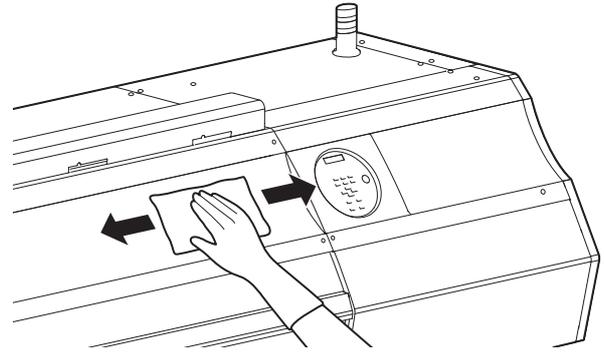
Cleaning the Platen

The platen easily gets dirty with lint, paper dust, etc. generated when a media is cut.
Wipe off conspicuous stains with a soft-hair brush, a dry cloth, a paper towel, etc.
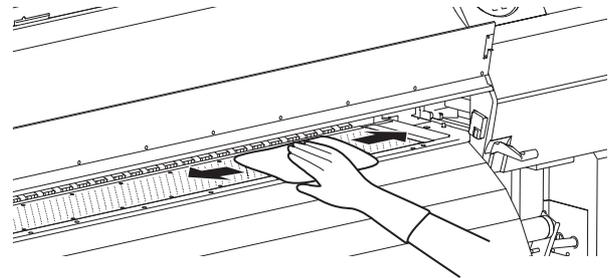
- When the platen is stained with ink, wipe it off with a paper towel containing a small amount of cleaning solution for maintenance.

(Important!)
- Before cleaning the platen, make sure that the platen has cooled adequately.
- Because dust and dirt are easily accumulated in the slots for holding a media and cutting paper (cutter slot), be sure to clean these parts carefully.

Cleaning of post heater cover and rear platen cover

The post heater cover and the rear platen cover are easy to be dirty because of the powder of the media etc.
If it shows dirt, wipe it with a soft cloth soaked in water or waterish mild detergent and wrung.

(Important!)
- Before cleaning the post heater cover, be sure to check that the heater temperature is low enough.
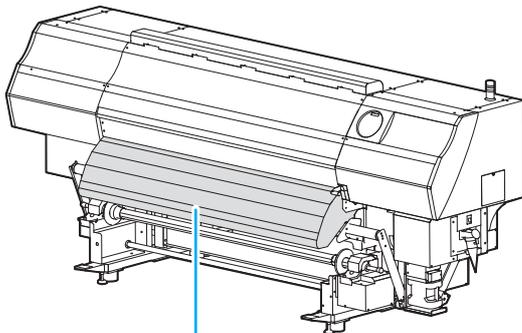
Post heater cover	Rear platen cover

4

Routine Maintenance
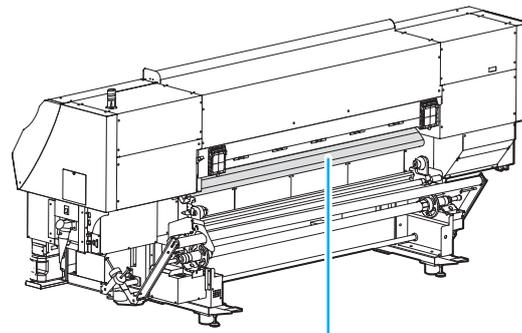
Cleaning the Media Sensor

The media sensors are located on the platen (for two positions) in the backside and the bottom surface of the head. When the sensor is covered with dust, etc., it may cause false detection of media.
Using a cotton swab, remove the dust, etc. accumulated on the surface of the sensor.

When cleaning the sensor on the lower surface of the head is cleaned, move the carriage to the left end by the operations of step 1 of P.4-14 "Cleaning the Head and the Area around It", and then clean it.

The backside of the machine

The lower surface of the head

Media sensor

Media sensor
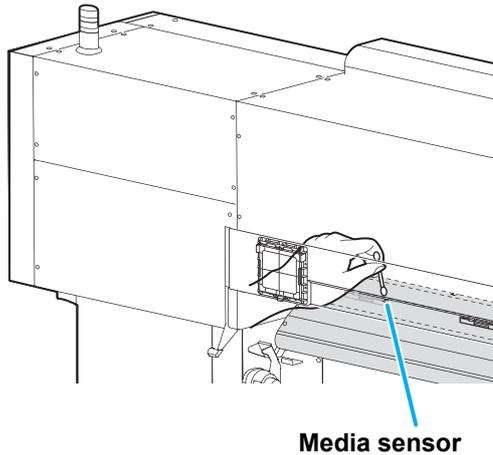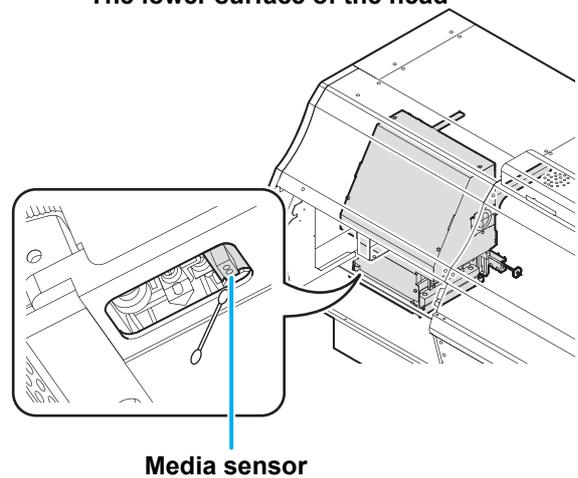
Cleaning the Media Press

When the media press is covered with lint, dust, etc., a media cannot be fed normally during printing or dust sticks to the nozzles, which may result in abnormal printing.
Clean the media press regularly.

Media press

Maintain the ink cap, wiper, wiper blade etc. located in the capping station. (SATION MAINT.)

The ink cap and wiper function as follows.
- **Wiper** : It wipes off ink sticking to the head nozzles.
- **Ink cap** : It prevents the head nozzles from clogging due to dryness.
- **Wiper blade** : It removes the ink that has adhered to the wiper.

As the machine is used repeatedly, the wiper and ink cap gradually become dirty with ink, dust, etc.
If nozzle missing cannot be corrected even after head cleaning (P.2-31) has been performed, use a Cleaning liquid 03 maintenance kit and clean stick.

Tools required for Maintenance	• Cleaning liquid 03 maintenance kit (ML003-Z-K1)		
	• Clean stick (SPC-0527)	• Gloves	• Goggles

⚠ **Caution**
- Be sure to wear the supplied goggles and gloves when maintaining the capping station.Otherwise, you may get ink in your eyes.
- Do not move the carriage out of the capping station by hand.When it is desirable to move the carriage, press the (MAINT.) key to execute the carriage-out. (P.4-5Steps 1 to 2)
- Be sure to perform maintenance for the ink cap and the wiper of capping station every day.
  If you leave it dirty, dirt may adhere to the nozzle surface, or, dust and dry ink may be rubbed against the nozzle. It may cause discharge defect.

Cleaning around the wiper

It is recommended that the wiper and cap be cleaned frequently in order to maintain the high image quality of the machine and keep the machine itself in good working order.

Important!
- Clean the wiper and the area around it at the end of the working day.
- Replace the wiper with a new one when it is extremely dirty or bent.(P.4-25)
- When cleaning the wiper, be careful that lint from the clean stick does not get left on the wiper.Remaining lint may cause image quality to deteriorate.

1 Press the (MAINT.) key in LOCAL.

```
CARRIAGE OUT
              [ENT]
```

2 Press the (ENTER) key.

```
MOVE POSITION
:STATION MAINT.
```

3 Press ▲▼ to select [STATION MAINT.].

```
MOVE POSITION
:STATION MAINT.
```

4 Press the (ENTER) key.
- The carriage moves onto the platen.

Carriage

4

Routine Maintenance

5 Open the right maintenance cover.

(1) Rotate the screws under the right maintenance cover (for three positions) to the left and remove them.
(2) Hold the bottom of the right maintenance cover and pull it to the front.
(3) While pulling the right maintenance cover downward, remove it.

• If the right maintenance cover is hard to remove, use the supplied screwdriver.

Right maintenance cover

Rotate it left.
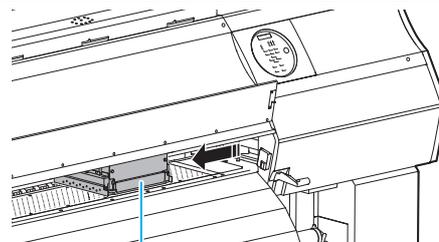
Screw

6 Remove the wiper.

• Pull out the wiper by holding the protrusions at its both ends.

Projection

7 Clean the wiper and bracket.

• Wipe off the ink sticking to the wiper and bracket with a clean stick dipped in cleaning solution for maintenance.
Wipe off so that cleaning solution for maintenance will not remain.

Wiper

Bracket

(Important!) • Clean the wiper and bracket until it looks as shown in the photo on the right.
• After cleaning, make sure that the bracket and wiper are aligned horizontally.
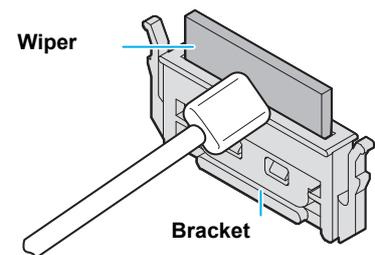
8 Clean the wiper slider.

• Wipe off the ink sticking to the wiper slider with a clean stick dipped in cleaning solution for maintenance.
Wipe off so that cleaning solution for maintenance will not remain.

Wiper slider

9 Set the wiper at the original position.

• Insert the wiper by holding both ends of the wiper.

Projection
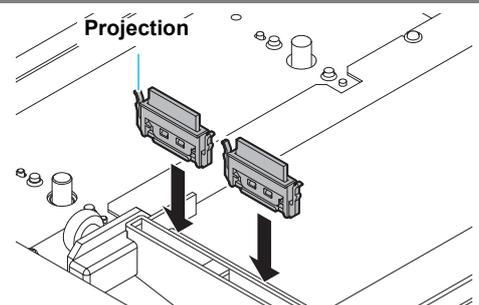
10 Clean the wiper blade.

Wiper blade

- Soak the clean stick in the maintenance cleaning liquid, and then remove the ink that has adhered to the wiper blade.

(Important!)
- Make sure to be careful with the edge of the wiper blade, and thoroughly clean the side (back side) where the wiper touches.
- Clean the wiper blade until it looks as shown in the photo below.
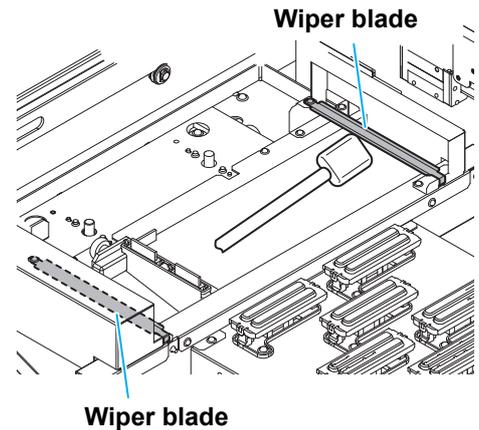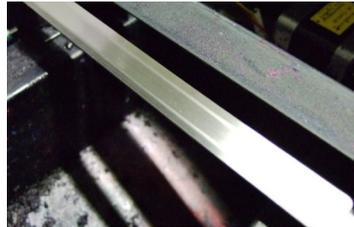
Wiper blade

11 Clean the cap rubber and cap rubber cover.

Cap rubber

Cap rubber cover

- Wipe off the ink sticking to the cap rubber and cap rubber cover with a clean stick dipped in cleaning solution for maintenance.
  Wipe off so that cleaning solution for maintenance will not remain.

(Important!)
- Clean the wiper until it looks as shown in the photo on the right.
- Make sure that the cap rubber and mesh inside the cap have not come off after cleaning.
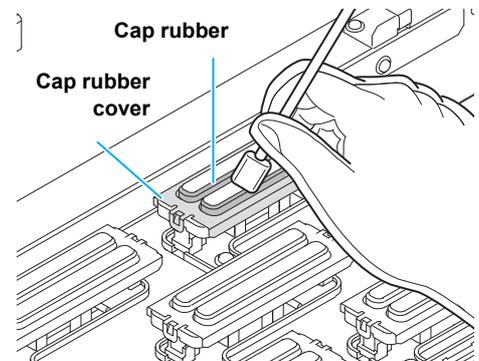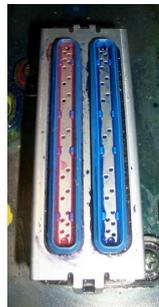
12 Press the (ENTER) key after the cleaning.

```
   C l o s e   a   c o v e r
COMPLETED          [ENT]
```

13 Close the right maintenance cover then press the (ENTER) key.

- After its initial operation, the machine returns to step1.

Performing the station maintenance without (MAINT.) key

You can select station maintenance by using the (FUNCTION) key in the Local without pressing the (MAINT.) key.

| **Press the (FUNCTION) key in Local.** | **Press (▲)(▼) to select [MAINTENANCE].** | **Press the (ENTER) key twice.**
 • It becomes the same condition as the (MAINT.) key is pressed from Local. |

Cleaning the wiper ink pan

Water-based ink does not flow easily. Ink dries, gets stuck, and accumulates. Use a rubber spatula or the like to frequently push the ink that piles up in the ink pan beneath the wiper towards the waste route.

1 **Press the** (MAINT.) **key in LOCAL.**

```
CARRIAGE OUT
                    [ENT]
```

2 **Press the** (ENTER) **key.**

```
MOVE POSITION
:STATION MAINT.
```

3 **Press** (▲)(▼) **to select [STATION MAINT.].**

```
MOVE POSITION
:STATION MAINT.
```

4 **Press the** (ENTER) **key.**
• The carriage moves onto the platen.
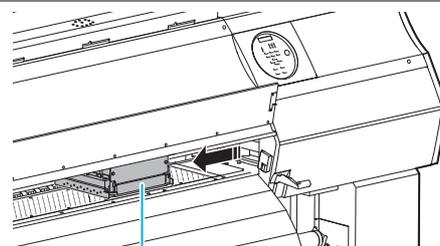
Carriage

5 **Open the right maintenance cover.**

(1) Rotate the screws under the right maintenance cover (for three positions) to the left and remove them.
(2) Hold the bottom of the right maintenance cover and pull it to the front.
(3) While pulling the right maintenance cover downward, remove it.

• If the right maintenance cover is hard to remove, use the supplied screwdriver.

Right maintenance cover

Rotate it left.
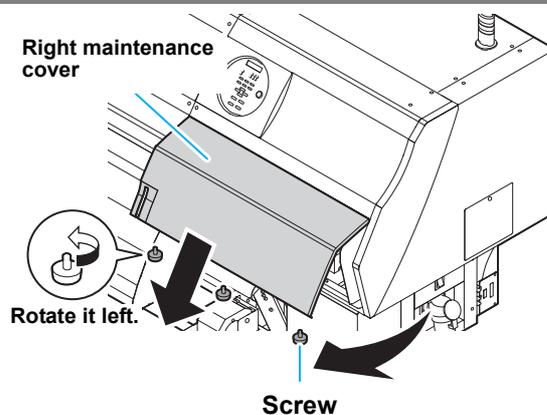
Screw

6 **Clean the wiper ink pan.**

• Use a rubber spatula or the like to frequently push the ink that piles up in the ink pan Beneath the wiper towards the waste route.
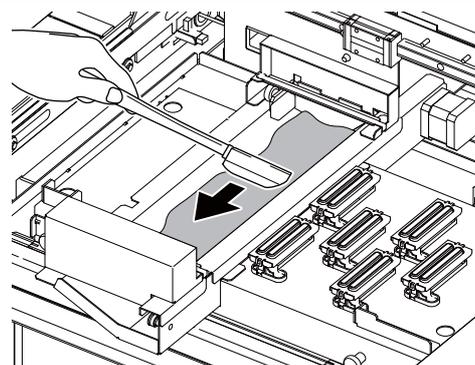
7 Press the ⟨ENTER⟩ key after the cleaning.

```
 Close a cover
COMPLETED      [ENT]
```

8 Close the right maintenance cover then press the ⟨ENTER⟩ key.

• After its initial operation, the machine returns to step1.

4

Routine Maintenance

Washing the Ink Discharge Passage (DISWAY WASH)

Wash the ink discharge passage regularly to prevent the head nozzles from clogging due to ink coagulation inside the passage.

1 Press the (MAINT.) key in LOCAL.

```
CARRIAGE OUT
                  [ENT]
```

2 Press (▲)(▼) to select [DISWAY WASH].

```
DISWAY WASH
                  [ENT]
```

3 Press the (ENTER) key.
- The carriage moves onto the platen.
- Dry suction operation is performed repeatedly until the washing work is completed.

```
DISWAY WASH
COMPLETED(NEXT)[ENT]
```

4 **Open the right maintenance cover.**

(1) Rotate the screws under the right maintenance cover (for three positions) to the left and remove them.
(2) Hold the bottom of the right maintenance cover and pull it to the front.
(3) While pulling the right maintenance cover downward, remove it.

- If the right maintenance cover is hard to remove, use the supplied screwdriver.

Right maintenance cover

Rotate it left.

Screw
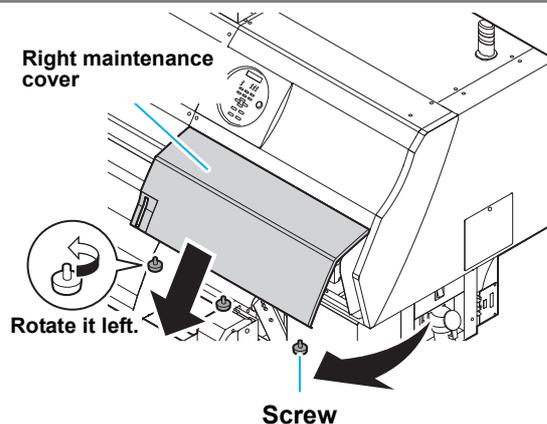
5 **Fill up the cap with cleaning solution for maintenance, using a dropper.**

- Fill the cap with the cleaning solution just before the solution overflows from the cap.
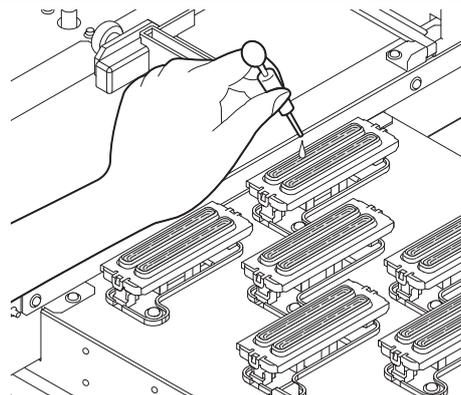
6 **Close the right maintenance cover and press the (ENTER) key.**

- After the idle absorbing operation has been performed for 30 seconds, the screen returns to step2.

```
DISWAY WASH
PLEASE WAIT
```

When the Machine Is Not Used for a Long Time (CUSTODY WASH)

When the machine is not going to be used for a week or more, use the cleaning function for custody to clean the head nozzles and ink discharge passage.After this, keep the machine in custody.

Check the items on the right beforehand.	**Is [INK END] displayed?** • The ink is absorbed when the nozzles are washed. At this time, if the state of "INK END" is detected, the nozzle washing operation cannot start. • Replace the ink bottle with another from which the state of "INK END" is not detected.

1 **Press the (MAINT.) key in LOCAL.**

```
CARRIAGE OUT
                    [ENT]
```

2 **Press (▲)(▼) to select [CUSTODY WASH].**

```
CUSTODY WASH
                    [ENT]
```

3 **Press the (ENTER) key.**

• The carriage moves onto the platen.

```
WIPER CLEANING
COMPLETED(NEXT)[ENT]
```

(Important!) • Until wiper/ bracket cleaning is competed, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the step 4 is completed, press the (ENTER) key. If you press the (ENTER) key before cleaning is completed, the machine moves to the next washing procedure.

4 **Clean the wiper and the bracket.**

(1) Open the right maintenance cover then pull out it by holding projections at both ends of the wiper.
(2) Clean the wiper and bracket with a clean stick dipped in cleaning solution for maintenance (ML003-Z-K1). Wipe off so that cleaning solution for maintenance will not remain.
(3) Insert it in the original position by holding the projections at both ends of the wiper.

Projection

4

Routine Maintenance

5

Press the [ENTER] key.

CAP CLEANING
COMPLETED(NEXT)[ENT]

• The carriage moves onto the platen.

Important! • Until wiper cleaning is competed, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the step 6 is completed, press the [ENTER] key. If you press the [ENTER] key before cleaning is completed, the machine moves to the next washing procedure.

6

Clean the cap rubber and cap rubber cover.

Cap rubber

Cap rubber cover

• Wipe off the ink sticking to the cap rubber and cap rubber cover with a clean stick dipped in cleaning solution for maintenance. Wipe off so that cleaning solution for maintenance will not remain.
• At this time, the discharge passage is cleaned automatically.

7

Press the [ENTER] key.

Fill the liquid.
COMPLETED(NEXT)[ENT]

Important! • Until washing liquid is filled, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the Step 8 is completed and you close the front cover, press the [ENTER] key. If you press the [ENTER] key before washing liquid is filled, the carriage returns to the original position.

8

Fill up the cap with cleaning solution for maintenance, using a dropper.

• Fill the cap with the cleaning solution just before the solution overflows from the cap.

9

Close the right maintenance cover and press the [ENTER] key.

LEAVING TIME
=   1min

10

Press [▲][▼] to set the time for the cleaning solution to be left as it is.

LEAVING TIME
=   2min

• Set Value:1 to 99 min (by the unit of 1 min)

11 Press the ENTER key.

• The nozzles are washed.
• When the nozzles have been completely washed, the head moves onto the platen.

```
PLEASE  WAIT
    00:00
```

↓

```
** CLEAMING **
PLEASE  WAIT
```

12 Open the right maintenance cover.

13 Fill up the cap with cleaning solution for maintenance, using a dropper.

• Fill the cap with the cleaning solution just before the solution overflows from the cap.
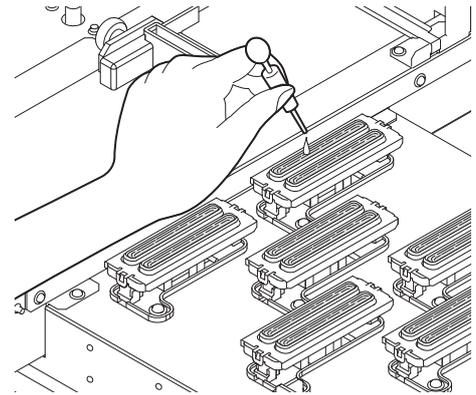
14 Close the right maintenance cover and press the ENTER key.

• After its initial operation, the machine returns to step2.

```
CUSTODY  WASH
PLEASE  WAIT
```

4

Routine Maintenance

Cleaning the Head and the Area around It

Because the head employs a very precise mechanism, due care needs to be taken when it is cleaned.
Using a clean stick, etc., rub off gelatinous ink or dust that may stick to the lower part of the slider and the area around the head.In doing so, never rub the nozzles of the head.

Tools required for cleaning	• Clean stick (SPC-0527)	• Gloves	• Goggles

⚠ **Caution**

- Be sure to wear the attached goggles and gloves when cleaning the area around the head.Otherwise, you may get ink in your eyes.
- If you get the ink on your skin or in your eyes, wash it away with plenty of water immediately.
- Clean the bottom of carriage every day so that it will not get dirt from inks or dusts. If you leave it dirty, dust and dry ink may be rubbed against the nozzle at wiping operation when performing head cleaning.
- When you clean the carriage bottom surface, fully be careful not to rub the nozzle surface.

1 Press the (MAINT.) key in LOCAL.

```
CARRIAGE OUT
              [ENT]
```

2 Press the (ENTER) key.

```
MOVE POSITION
:STATION MAINT.
```

3 Press (▲)(▼) to select [HEAD MAINT.].

```
MOVE POSITION
:HEAD MAINT.
```

4 Press the (ENTER) key.

- Carriage will move to the left end of this device.
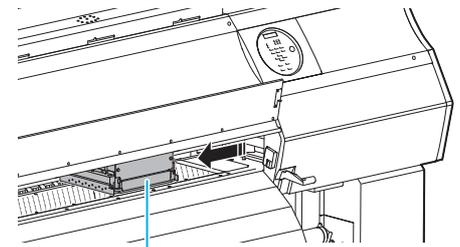
Carriage

5 Open the left maintenance cover.

(1) Rotate the screws under the left maintenance cover (for three positions) to the left and remove them.
(2) Hold the bottom of the left maintenance cover and pull it to the front.
(3) While pulling the left maintenance cover downward, remove it.

- If the left maintenance cover is hard to remove, use the supplied screwdriver.

Left maintenance cover

Rotate it left.

Screw
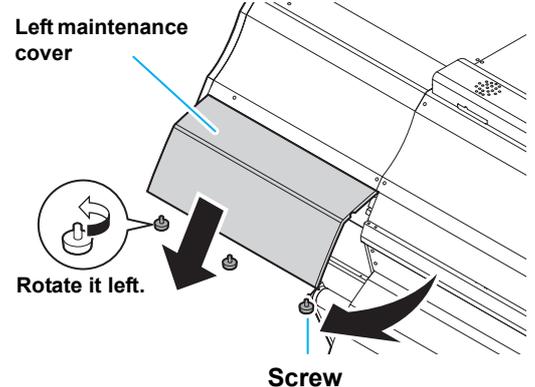
6 Soak the clean stick or the waste cloth in the maintenance cleaning liquid and wipe off an accumulated ink on the side of the head and on the bottom surface of the slider.

• Do not touch the nozzle surface, because the cleaning will be performed in the step 7.

Side surface of the head (shown in deep gray)

Nozzle part

Bottom surface of the slider
(shown in gray)
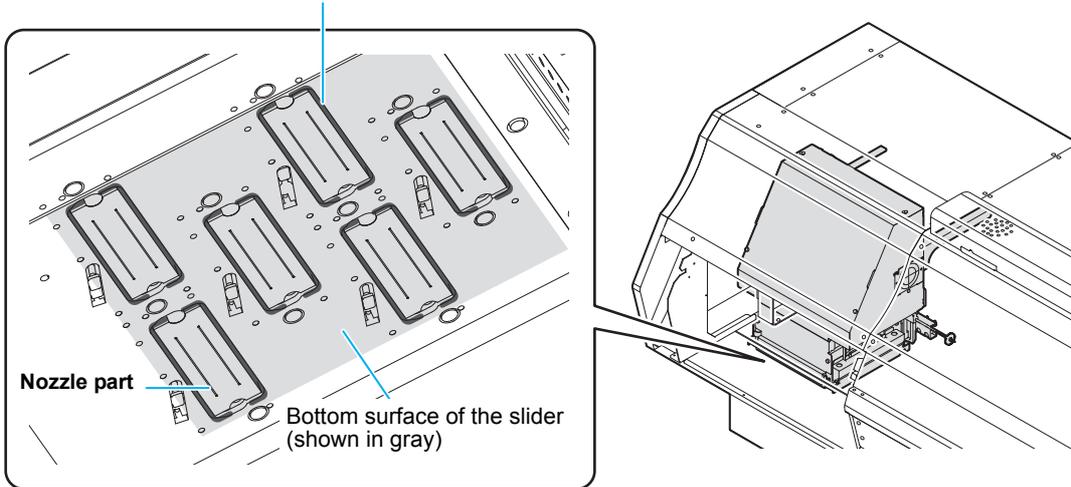
Important! • Clean the wiper until it looks as shown in the photo on the right.

7 Soak the COTTON CIEGAL® in the maintenance cleaning liquid and wipe off the mark of the cap rubber attached on the nozzle surface from the rear side to the front side.

COTTON CIEGAL®

[Before cleaning] **[After cleaning]**

Mark of the cap

Important! • Immerse much enough so that maintenance liquid may drip from it.
• Do not wipe the nozzle surface with dry COTTON CIEGAL®.
• If COTTON CIEGAL® has fluffed, replace it.
• If ink solid adheres to COTTON CIEGAL®, change the surface to use for cleaning or replace it.

8 Press the (ENTER) key after the cleaning.

• Close the left maintenance cover then press the (ENTER) key.

```
Close  a  cover
COMPLETED        [ENT]
```

4

Routine Maintenance

4-15

When nozzle clogging cannot be solved even after the head cleaning (☞ P.2-31) has been done, perform the following two functions:

NOZZLE WASH	• Wash the head nozzle. (☞ P.4-16)
NOZZLE RECOVERY	• Alternative nozzles for printing, when nozzles missing can not be improved. (☞ P.4-18)

Washing of Head nozzle

Perform cleaning of the nozzles in the heads to prevent them being clogged with coagulated ink.

Check the items on the right beforehand.	**Is [INK END] displayed?** • The ink is absorbed when the nozzles are washed. At this time, if the state of "INK END" is detected, the nozzle washing operation cannot start. • Replace the ink bottle with new one for which ink end has not been detected.

1 **Press the (MAINT.) key in LOCAL.**

```
CARRIAGE OUT
                    [ENT]
```

2 **Press (▲)(▼) to select [NOZZLE WASH].**

```
NOZZLE WASH
                    [ENT]
```

3 **Press the (ENTER) key.**
• The carriage moves onto the platen.

```
WIPER CLEANING
COMPLETED(NEXT)[ENT]
```

Important! • Until wiper cleaning is competed, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the step 4 is completed, press the (ENTER) key. If you press the (ENTER) key before cleaning is completed, the machine moves to the next washing procedure.

4 **Clean the wiper and the bracket.**

(1) Open the right maintenance cover then pull out it by holding projections at both ends of the wiper.
(2) Clean the wiper and bracket with a clean stick dipped in cleaning solution for maintenance. (ML003-Z-K1) Wipe off so that cleaning solution for maintenance will not remain.
(3) Insert it in the original position by holding the projections at both ends of the wiper.

Projection

5 **Press the (ENTER) key.**

```
CAP CLEANING
COMPLETED(NEXT)[ENT]
```

Important! • Until wiper cleaning is competed, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the step 6 is completed, press the (ENTER) key. If you press the (ENTER) key before cleaning is completed, the machine moves to the next washing procedure.
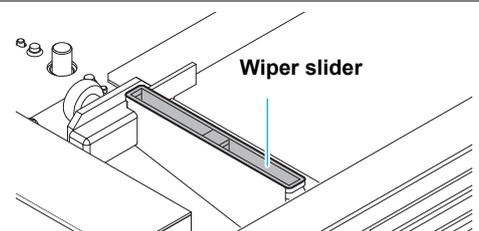
6 **Clean the cap rubber and cap rubber cover.**

- Wipe off the ink sticking to the cap rubber and cap rubber cover with a clean stick dipped in cleaning solution for maintenance. Wipe off so that cleaning solution for maintenance will not remain.
- At this time, the discharge passage is cleaned automatically.

Cap rubber

Cap rubber cover

7 **Press the (ENTER) key.**

```
Fill the liquid.
COMPLETED(NEXT)[ENT]
```

Important! • Until washing liquid is filled, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the Step 8 is completed and you close the front cover, press the (ENTER) key. If you press the (ENTER) key before washing liquid is filled, the carriage returns to the original position.

8 **Fill up the cap with cleaning solution for maintenance, using a dropper.**

- Fill the cap with the cleaning solution just before the solution overflows from the cap.

9 **Close the right maintenance cover then press the (ENTER) key.**

```
LEAVING TIME
=              1min
```

10 **Press (▲)(▼) to set the time for the cleaning solution to be left as it is.**

- **Set value** : 1 to 15 minutes (Unit: minute)

```
LEAVING TIME
=              2min
```

11 **Press the (ENTER) key.**

- The cleaning solution filled in the cap is absorbed.
- The screen on the right is displayed only for the duration set in the step 10.
- It returns to the step2 after the duration.

```
PLEASE WAIT
   00:00
```

```
** CLEAMING **
PLEASE WAIT
```

Important! • When nozzle missing is not cleared even after this washing is carried out several times, contact the distributor in your region or our service office.

4

Routine Maintenance

Alternative nozzles for printing, when nozzles missing can not be improved

NOZZLE RECOVERY: When nozzles missing can not be improved at specific points, other good nozzles can be used as alternatives for printing.

The head of this machine consists as the right figure.
You can set the recovery by specifying the nozzle line each for the H1-2 (Head 1-2), the H3-4 (Head 3-4) and the H5-6 (Head 5-6).

About nozzle line
• This machine is equipped with four nozzle lines (Line A, Line B, Line C and Line D) for one head.
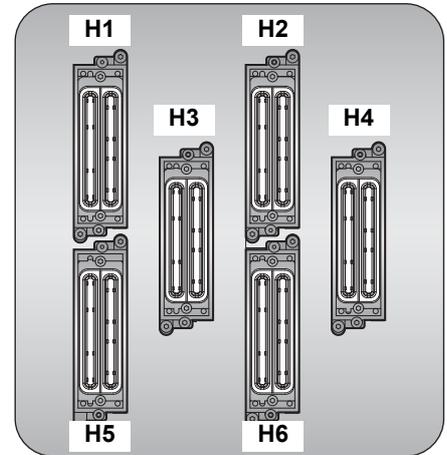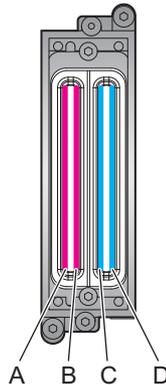
A   B   C   D

Rear side of machine

H1   H2
H3   H4
H5   H6

---

1 **Select [NOZZLE RECOVERY] of the maintenance menu.**

(1) Press the (FUNCTION) key in LOCAL.
(2) Press ▲▼ to select [MAINTENANCE] and press the (ENTER) key.
(3) Press ▲▼ to select [NOZZLE RECOVERY].
(4) Press the (ENTER) key.

---

2 **Press ▲▼ to select [PRINT] and press the (ENTER) key.**

```
NOZZLE RECOVERY
:PRINT
```
↓
```
SELECT HEAD
:H1-2
```

---

3 **Press ▲▼ to select the head (H1-2/ H3-4/ H5-6) for which you perform nozzle recovery.**

```
SELECT HEAD
:H3-4
```

---

4 **Press the (ENTER) key twice.**

• The nozzle pattern of selected unit is printed.
• When you select "ENTRY" in the Step 2, the machine moves to the nozzle line selection procedures (Step 5) without printing a nozzle pattern.

```
** PRINTING **
PLEASE WAIT
```

Nozzle pattern when selecting H1-2

H1-A   H1-B   H1-C   H1-D   H2-A   H2-B   H2-C   H2-D

4-18
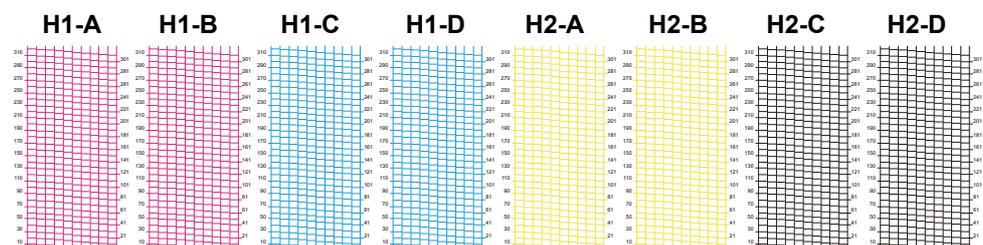
5 Press ▲ ▼ to select the Nozzle line that needs NOZZLE RECOVERY and press the ENTER key.

```
SELECT NOZZLE
:H1 A
```

Nozzle line: A,B,C,D

Head No.: H1 or H2
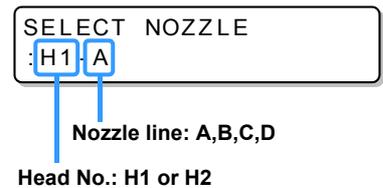
6 Register the Nozzle number that needs NOZZLE RECOVERY and press the ENTER key.
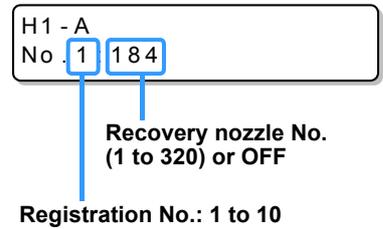
(1) Select the registration number from 1 to 10 by pressing ▲ ▼ and press the ENTER key.

(2) Register the nozzle number that needs recovery by pressing ▲ ▼ and press the ENTER key.

- If the registered nozzle cannot be recovered, the screen of the Step 3 in P.4-20 "Check the print condition for which nozzle recovery cannot be performed" is displayed.

```
H1-A
No.1 184
```

Recovery nozzle No. (1 to 320) or OFF

Registration No.: 1 to 10

Example of nozzle to be recovered

230 210 190 170 130 110 90 70 50 30 10

221 201 181 161 141 121 101 81 41 21 1

Nozzle missing No.184

Nozzle missing No.128

Nozzle missing No.16
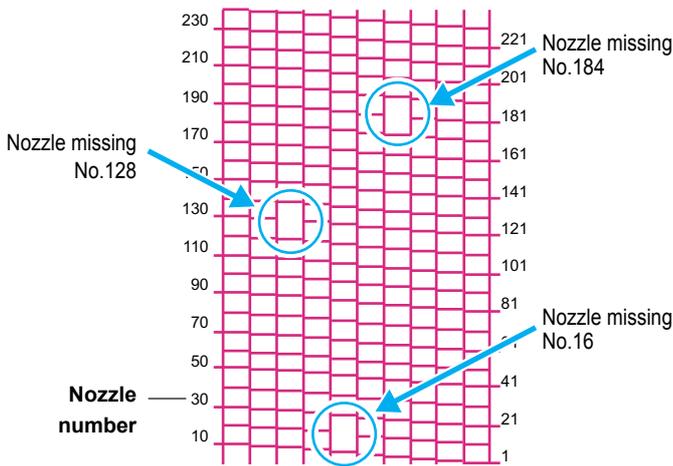
Nozzle number

Registration number	Recovery Nozzle No.	State
1	16	Target for nozzle recovery
2	128	Target for nozzle recovery
3	184	Target for nozzle recovery
4	OFF	No registration
5	OFF	No registration

7 Press the END key several times to end the setting.

Important!
- Up to 10 nozzles can be registered per 1 nozzle line.
- Even if you use this function, time required for drawing does not change.
- For the lowest number of paths of the drawing mode, the NOZZLE RECOVERY function is invalid.
- Even if you register the NOZZLE RECOVERY, the pattern of test print etc. is not recovered.

4

Routine Maintenance

Check the print condition for which nozzle recovery cannot be performed

Depending on the registered nozzle, there is a mode on which recovery is not reflected. Check the print condition for which recovery cannot be performed.

> • When there are many registered nozzles, it takes much time to display the checked result.

1 **Select [NOZZLE RECOVERY] of the maintenance menu.**

(1) Press the (FUNCTION) key in LOCAL.
(2) Press (▲)(▼) to select [MAINTENANCE] and press the (ENTER) key.
(3) Press (▲)(▼) to select [NOZZLE RECOVERY].
(4) Press the (ENTER) key.

2 **Press (▲)(▼) to select [CHECK].**

```
NOZZLE  RECOVERY
:CHECK
```

3 **Press the (ENTER) key.**

• The mode for which nozzle recovery is invalid is displayed.
• If there is no mode for which nozzle recovery is invalid, "NONE" is displayed.

```
UNRECOVERABLE  COND.
:  600x  900    6p  H
```

Scanning speed

Number of passes

Resolution

4 **Press (END) the key several times to end the setting.**

Clear the set value

1 **Select [NOZZLE RECOVERY] of the maintenance menu.**

(1) Press the (FUNCTION) key in LOCAL.
(2) Press (▲)(▼) to select [MAINTENANCE] and press the (ENTER) key.
(3) Press (▲)(▼) to select [NOZZLE RECOVERY].
(4) Press the (ENTER) key.

2 **Press (▲)(▼) to select [RESET] and press the (ENTER) key.**

```
NOZZLE  RECOVERY
:RESET
```
↓
```
SELECT  HEAD
:H1-2
```

3 **Press (▲)(▼) to select the head (H1-2/ H3-4/ H5-6) for which you reset nozzle recovery.**

```
SELECT  HEAD
:H3-4
```

4 **Press the (ENTER) key.**

```
SELECT  RESET  NOZZLE
:H1-A
```

5 **Press (▲)(▼) to select the Nozzle line that needs reset the setting value and press the (ENTER) key.**

```
SELECT  RESET  NOZZLE
:H1-A
```
↓
```
H1-A  RESET?
EXECUTE          [ENT]
```

6 **Press the (ENTER) key.**

7 **Press the (END) key several times to end the setting.**

4

Routine Maintenance

Automatic Maintenance Function

To use this machine comfortably, you can set various maintenances to be performed automatically.
Here, set performing intervals of various automatic maintenances.
You can prevent troubles such as ink clogging by performing automatic maintenance periodically (automatic maintenance function).
For the auto maintenance functions, the following items can be set:

> **Important!** • When you perform maintenance manually, after manual maintenance is completed and when time set with the automatic maintenance function has passed, maintenance starts automatically.

Function name	Descriptions
REFRESH	The interval between each refreshing operation is set.
CLEANING	The interval between each cleaning operation is set.

> **Important!** • During the right message is displayed, the operation set in the auto maintenance function is not carried out. Perform the operations of P.4-26 if required.
> • When the power button on the front of the machine is turned off, check the waste ink tank.

```
<LOCAL>
Waste ink full
```

Setting the Refreshing Intervals

The interval between each operation of ejecting a small amount of ink from the nozzles to prevent nozzle clogging is set.

1 **Select [AUTO MAINT.] of the maintenance menu.**

(1) Press the (FUNCTION) key in LOCAL.
(2) Press (▲)(▼) to select [MAINTENANCE] and press the (ENTER) key.
(3) Press (▲)(▼) to select [AUTO MAINT.].

2 **Press the (ENTER) key.**

```
AUTO MAINT.
REFRESH        [ENT]
```

3 **Press the (ENTER) key.**

```
REFRESH
:Lv.1
```

4 **Press (▲)(▼) to set the refreshing interval.**

• Set value : OFF, Lv.1, Lv.2, Lv.3
• As the LEVEL increases, the interval between each operation gets shorter.

```
REFRESH    .
:Lv.1
```

5 **Press the (ENTER) key.**

```
AUTO MAINT.
REFRESH        [ENT]
```

6 **Press (END) the key several times to end the setting.**

Setting the Cleaning Intervals

The cleaning type and the interval between each cleaning operation are set.

1 **Select [AUTO MAINT.] of the maintenance menu.**

(1) Press the (FUNCTION) key in LOCAL.
(2) Press ▲ ▼ to select [MAINTENANCE] and press the (ENTER) key.
(3) Press ▲ ▼ to select [AUTO MAINT.].
(4) Press the (ENTER) key.

2 **Press ▲ ▼ to select [CLEANING].**

```
AUTO MAINT.
CLEANING        [ENT]
```

3 **Press the (ENTER) key.**

```
CLEANING
: Lv.1
```

4 **Press ▲ ▼ to set the interval between each cleaning operation.**

• Set value : OFF, Lv.1, Lv.2, Lv.3
• As the LEVEL increases, the interval between each operation gets shorter.

```
CLEANING
: Lv.1
```

5 **Press the (ENTER) key.**

• When you set other than "OFF" in the Step 4, the cleaning type selection screen is displayed.

```
TYPE
: NORMAL
```

6 **Press ▲ ▼ to select a cleaning type.**

• **Set value** : NORMAL, SOFT, HARD

```
TYPE
: SOFT
```

7 **Press the (ENTER) key.**

```
AUTO MAINT.
CLEANING        [ENT]
```

8 **Press the (END) key several times to end the setting.**

4

Routine Maintenance

Cleaning Y motor

When the warning message [Y motor cleaning] is displayed, clean the Y motor with the procedures below:

1 **Turn off the power supply, and open the Y-motor maintenance cover.**

- Remove the screw of the Y-motor maintenance cover, and open the cover.

Screw

Y-motor maintenance cover
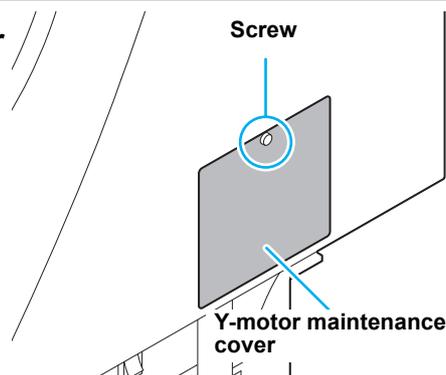
2 **Open the cover for absorbing abrasion powder, and absorb abrasion powder accumulating in the hole for absorbing abrasion powder with a vacuum.**

- Using a flat-blade screwdriver, open the cover.

Hole for absorbing

3 **Return the cover for absorbing abrasion powder to the original status, and turn on the power supply.**

- Warning message [Y motor cleaning] is displayed on the screen.

4 **Press the (MAINT.) key and clear the warning message.**

- The machine returns to LOCAL.

Replacing consumables

Replacing the wiper

The wiper is consumable.When the display indicates that it is necessary to replace the wiper, immediately replace the wiper with a new one.
Also, wipe ink sticking to the lower surface of the slider off.

```
<LOCAL>
Replace a WIPER[MNT]
```

Important!
- A cleaning wiper (SPA-0193) is an option.Buy one through the dealer in your region or at our service office.

1

When the message is displayed, press the (MAINT.) key.

```
REPLACE WIPER
EXECUTE        [ENT]
```

2

Press the (ENTER) key.
- The carriage moves onto the platen.

```
REPLACE WIPER
COMPLETED      [ENT]
```

Important!
- Until the replacement work is completed, [COMPLETED: ent] is displayed on the screen. After the work up to the Step 3 is completed and you close the right maintenance cover, press the (ENTER) key.

3

Open the rght maintenance cover then remove the wiper.
- Pull out the wiper by holding the protrusions at its both ends.

Projection
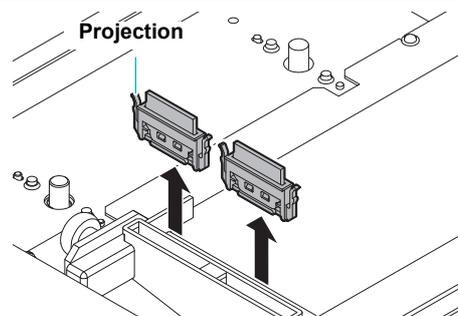
4

Insert a new wiper.
- Insert a new wiper by holding its both ends.

Projection
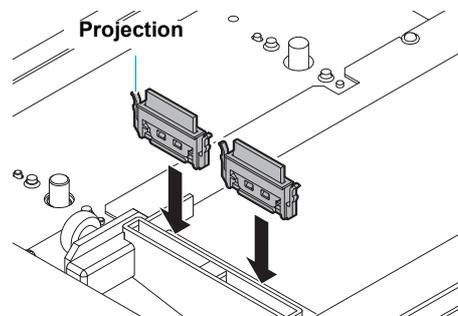
5

Close the right maintenance cover and press the (ENTER) key.
- After its initial operation, the machine returns to LOCAL.

```
*Being Initialized*
   PLEASE WAIT
```

If a Waste Ink Tank Confirmation Message Appears

Ink used in head cleaning, etc. is stored in the waste ink tank on the lower right side of the machine. The sensor monitors the discharged amount of ink in this machine. When that reaches a specified amount, the machine displays a confirmation message. (When this message is displayed, consider the replacement of the waste ink tank.)

Confirmation Message in LOCAL

1 **The message on the right is displayed.**

```
<LOCAL>
Waste ink near full
```

or

```
<LOCAL>
Waste ink full
```

or

```
<LOCAL>
Waste ink tank none
```

2 **Check the state of the waste ink tank**

Replace the waste ink tank with another

1 **Open the waste ink tank cover.**
- Remove the screw attaching to the waste ink tank cover and open the cover to the front.

Waste ink tank cover **Screw**
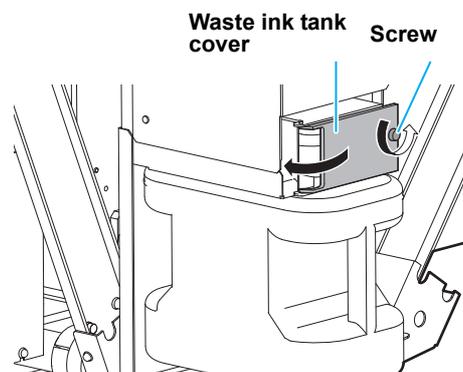
2 **Lift the waste ink tank a little.**
- Lift the waste ink tank up to the position where it does not hit the stopper.

Stopper
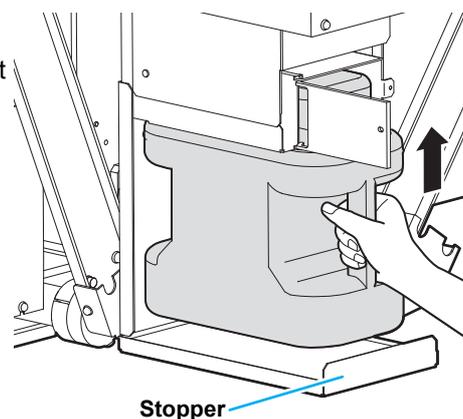
3 Take out the waste ink tank.

(1) Hold the handle of the waste ink tank and pull it out to the front.
(2) Raise the waste ink tank and take it out.

• Put a cap on the waste ink tank removed.

Cap
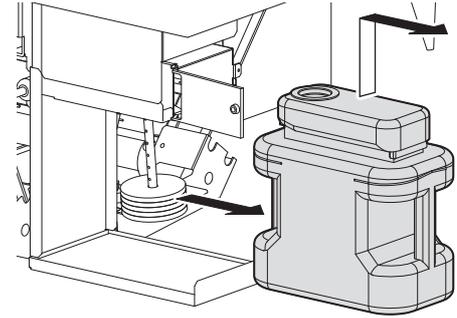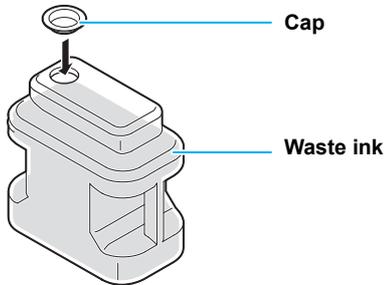
Waste ink

4 Replace the waste ink tank.

(1) Prepare a new waste ink tank (SPC-0197).
(2) Hold the handle of the waste ink tank and insert it along the rail.
(3) Raise the waste ink tank.

• Waste ink is equivalent to waste oil of industrial waste. Request an industrial waste disposal company for disposal of waste ink.

Rail
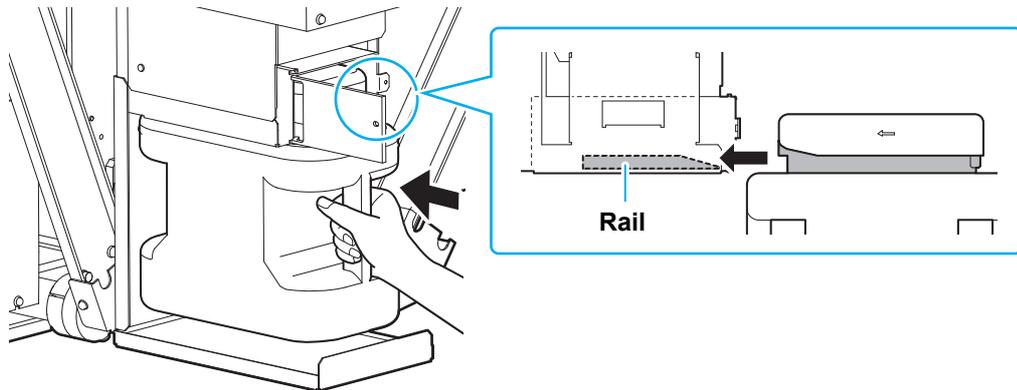
5 Close the waste ink tank cover.

• When the machine recognizes the new waste ink tank, the warning message is released.

4

Routine Maintenance
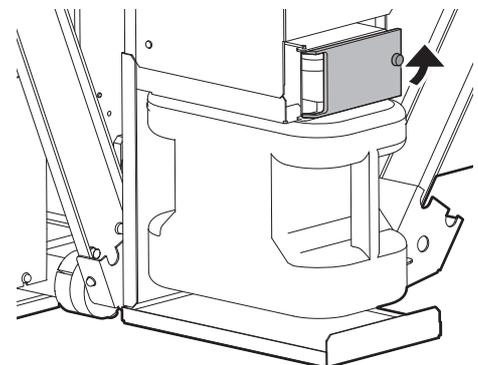
Replacing the Cutter Blade

The cutter blade is consumable.When the cutter blade gets dull, replace it with a new one (SPA-0192).

⚠ **Caution**
- The blade is sharp.Be careful not to hurt yourself or anyone else.
- Store the cutter blade in a place that is out of the reach of children.In addition, dispose of used cutter blades according to regional laws and regulations.

💡
- When replacing the cutter blade, it is recommended to place a sheet of paper under the cutter blade. This will help pick up the cutter blade if it drops.

1 **Press the** ⬭MAINT.⬭ **key in LOCAL.**

```
CARRIAGE OUT
                [ENT]
```

2 **Press the** ⬭ENTER⬭ **key.**

```
MOVE POSITION
:STATION MAINT.
```

3 **Press** ⬭▲⬭⬭▼⬭ **to select [STATION MAINT.].**

```
MOVE POSITION
:STATION MAINT.
```

4 **Press the** ⬭ENTER⬭ **key.**
- The carriage moves onto the platen.

5 **Open the front cover.**

Front cover
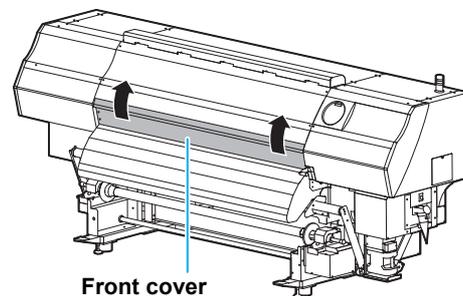
6 **Remove the maintenance cover at the front of the carriage.**
- Remove the screws of both edges of the maintenance cover, and remove the maintenance cover.

Maintenance cover
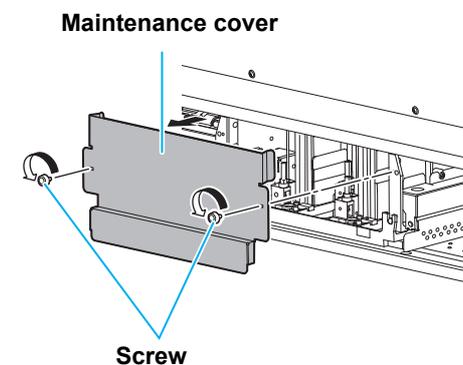
Screw

7 Replace the cutter unit by the carriage.

(1) Loosen the screw of the cutter unit.
(2) Remove the cutter unit.
(3) Mount a new cutter unit.
(4) Fasten the screw of the cutter unit to secure the cutter unit.
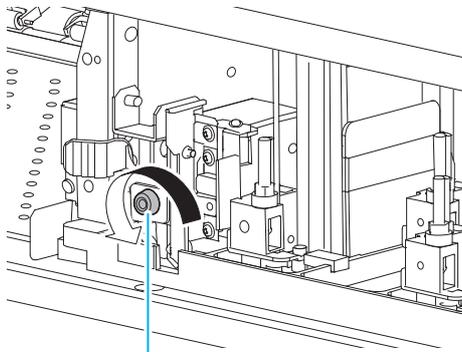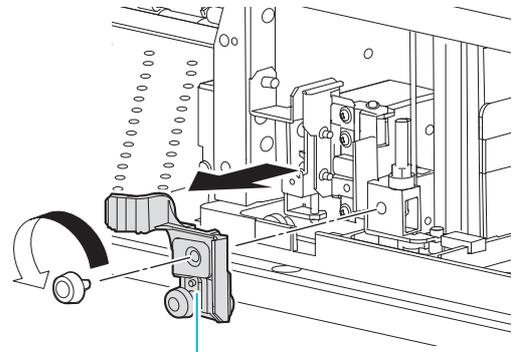
Screw   **Cutter unit**

8 Close the front cover.
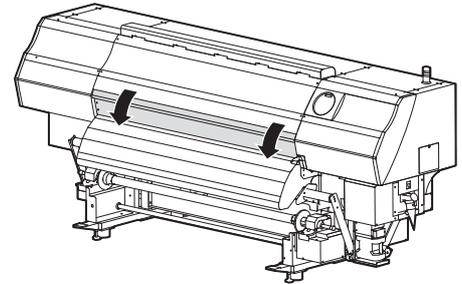
9 Press the ⟨ ENTER ⟩ key.

• The screen returns to step1.

4

Routine Maintenance

Chapter 5
Troubleshooting

This chapter

describes the corrective measures to be taken for a phenomenon suspected to be trouble and the procedures to clear the error number displayed on the LCD.

Troubleshooting

Take appropriate actions as described below before taking the trouble as a failure.
If still the problem is not solved after troubleshooting, contact your dealer or an office of MIMAKI.

Power does not turn on

In most cases, this is due to improper connection of the power cable for the machine or computer. Check that the power cable is connected properly.

Has the power cable been connected between the machine and a power plug socket ?	**No** →	Securely connect the power cable.

Is the main switch ON ?	**No** →	Turn on the main switch. (☞ P.2-3)

Is the power button located on the front of machine "ON" ?	**No** →	Turn on the power button on the front of the machine.
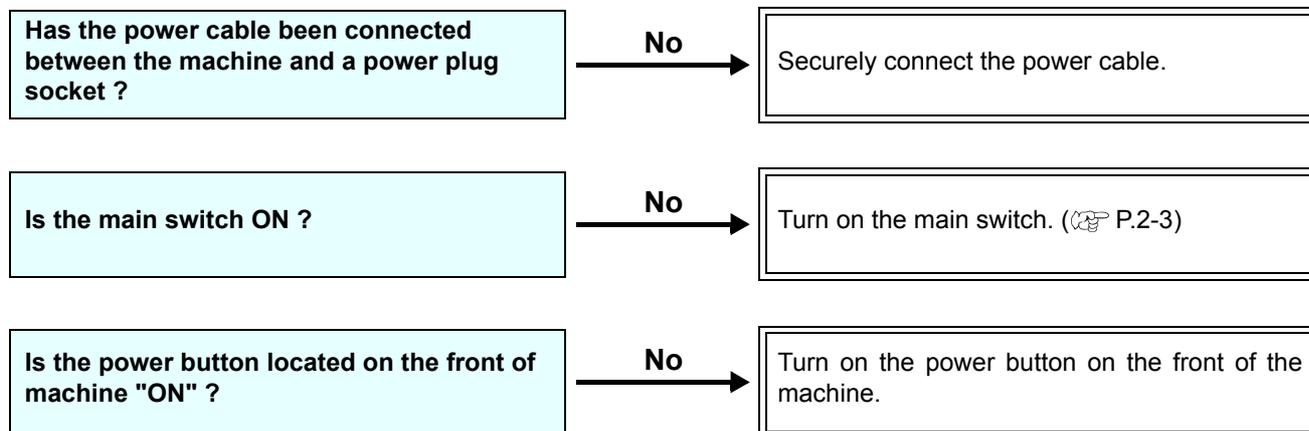
The machine does not start printing

This occurs when the data is not being transmitted to the machine properly.
It can also occur when the printing function does not work properly or the media is not set correctly.

Is the correct interface cable used ?	**No** →	Use the cable exclusive for the device.

Is the interface cable properly connected ?	**No** →	Securely connect the interface cable.

↓ **Yes**

Is the message on the display indicating that ink has run out ?	**Yes** →	Replace the ink bottle with a new one.
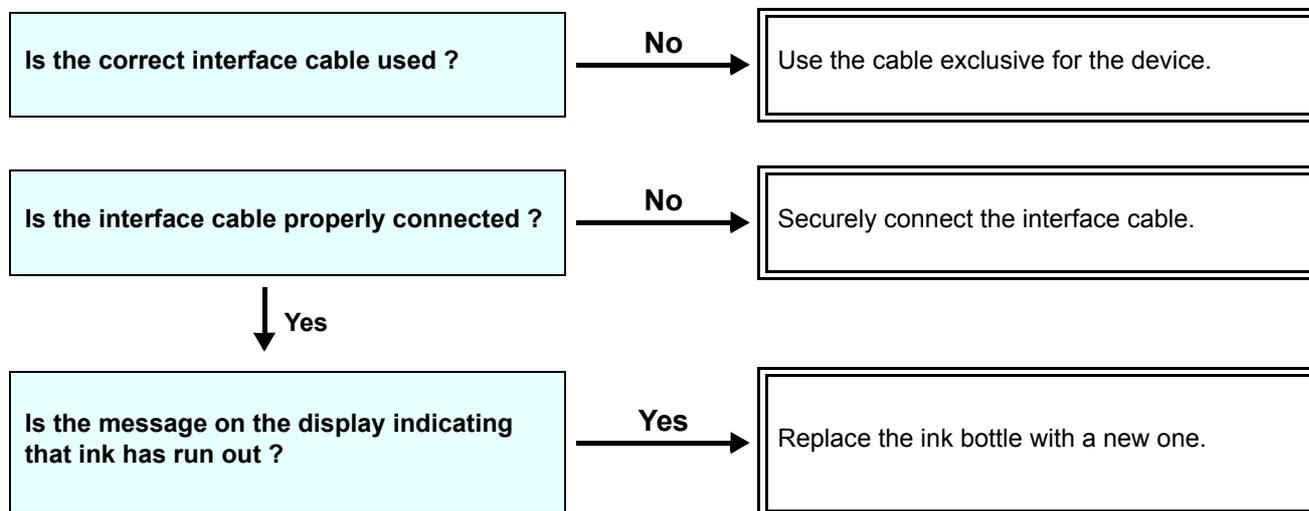
Media get jammed / media is soiled

Media jamming or stained media is considered to be due to the use of an unsuitable media or improper setting of media.

| Is a recommended media used ? | **No** → | Use recommended media. |

| Is the media not curled or bent ends ? | **No** → | Avoid using any media with curls or bent ends. |

↓ **Yes**

| Is the media hanging down along the platen ? | **No** → | Use a take-up device (☞ P.2-16 step 19) or re-load the media on the machine. (☞ P.2-5) |
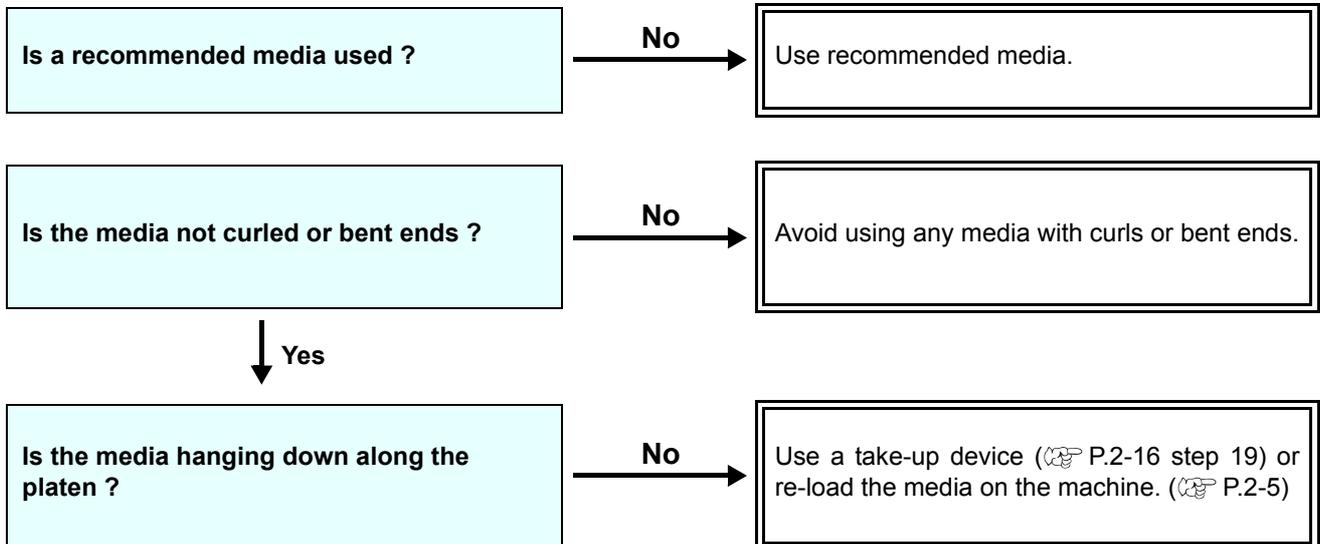
[HEAT] or [CONSTANT] LED does not light up

Check the basic operation.

| Is the power to the machine ON ? | **No** → | Turn on the power to the machine. (☞ P.2-3) |

↓ **Yes**

| Is the heater temperature setting effective ? | **No** → | Set the heater temperature. (☞ P.2-26) |

5

Troubleshooting
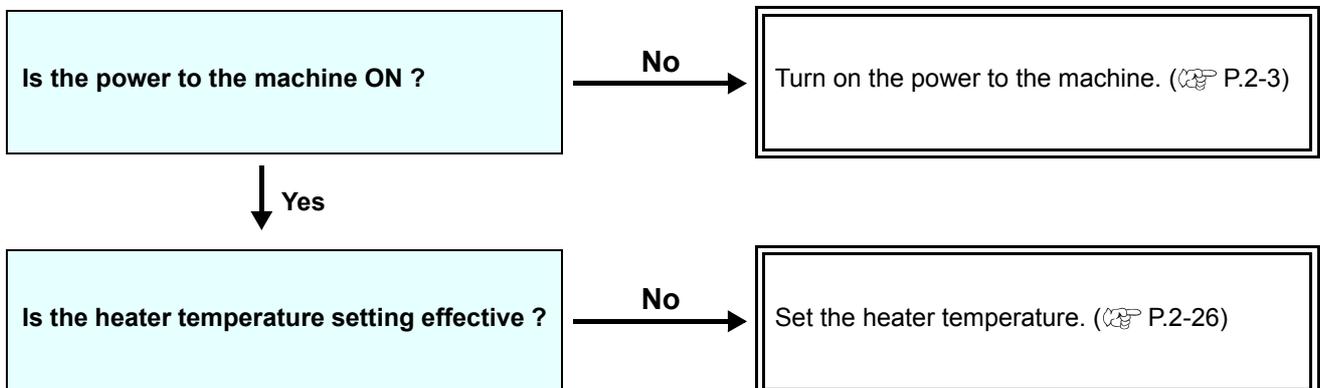
Image quality is poor

This section describes the corrective actions to be taken in case the image quality is not satisfactory.
Take remedy for particular problems with image quality. If the remedy does not work, contact your dealer or an office of MIMAKI.

Phenomenon	Measures
White lines / blur / dark stripes (in the direction of travel of the heads)	**(1)** Execute the head cleaning. (☞ P.2-31) **(2)** Perform maintenance of the inside of the station. (☞ P.4-5) **(3)** Execute the [MEDIA COMP.] function. (☞ P.2-32) **(4)** If any pieces of paper or dust is attached on the path of the heads such as media press, remove it.
Characters are double- or triple-printed in the media feed direction	**(1)** Execute the [MEDIA COMP.] function. (☞ P.2-32)
Disagreement in print positions between outward trip and homeward trip	**(1)** Execute the [DROP POSITION] function. (☞ P.2-34)
Ink drops falling on media during printing	**(1)** Execute the wiper cleaning. (☞ P.4-11) **(2)** Execute the ink cap cleaning. (☞ P.4-5) **(3)** Clean around the head. (☞ P.4-14) **(4)** Execute the head cleaning [NORMAL]. (☞ P.2-31) **(5)** Set a shorter interval of INTERVAL WIPING operation. (☞ P.3-10)

Nozzle is clogged

When nozzle clogging is not dissolved even after the head cleaning referring to P.2-31, make sure the following operations.

● **Wash the head nozzle by the operations of P.4-16.**

● **Recovery the nozzle by the operations of P.4-18.**

Ink bottle warning appears

If an ink bottle trouble is detected, the bottle LED "red" is lit, and a warning message appears.
None of printing, cleaning and all the other operations that use ink is available.
If an abnormality occurs, perform the following procedures:

- Check that the IC chip in the ink cover is correctly set.
- Replace the ink bottle in question immediately.

(Important!) • Once ink bottle trouble is displayed, do not leave the ink bottle without replacing it for a long time; otherwise, the machine will lose the nozzle clogging prevention function.
If nozzles are clogged, the machine must be repaired by MIMAKI's service engineer.

Displaying the description of ink bottle trouble

The contents of ink bottle error are confirmable by the following operations.

| **1** | **Press the (ENTER) key in LOCAL.** | Sb300   MMBBYYKK
REMAIN   34567899 |

| **2** | **Press the (ENTER) key.** | NON INC IC
MMBBYYKK |

• When multiple bottle defects occur and if you press the (ENTER) key or (◄)(►), they are displayed by turns.

If an error related to the sub tank occurs (Error 618 to 61b)

The Error 618 to 61b are related to the sub tank.
Execute following procedures when an error about sub tank occurs, or when the nozzle is not unclogged after cleaning.

1 **Select [SUB TANK] of the maintenance menu.**

(1) Press the (FUNCTION) key in LOCAL.
(2) Press (▲)(▼) to select [MAINTENANCE] and press the (ENTER) key.
(3) Press (▲)(▼) to select [SUB TANK].

2 **Press the (ENTER) key.**

```
SELECT SUBTANK
: MMBBYYKK
```

3 **Press (▲)(▼)(◀)(▶) and select a sub tank to be maintained.**

- (◀)(▶) : Select a sub tank.
- (▲)(▼) : Select whether you perform maintenance or not.
- If Error 61b occurs, an appropriate head is selected. Press (ENTER) key.

```
SELECT SUBTANK
: MMBB_YKK
```

4 **Press the (ENTER) key.**

```
SUB TANK
EXECUTE        [ENT]
```

5 **Press the (ENTER) key.**

- The automatic discharging operation and the filling operation are performed.

```
** FILL UP **
  PLEASE WAIT
```

- Then, cleaning is performed.

```
** CLEANING **
  PLEASE WAIT
```

6 **Press (END) the key several times to end the setting.**

If nozzle missing due to color mixture of ink or aeration

If nozzle missing occurs due to color mixture of ink in the head or aeration, push ink or air in the head out from the port.

(Important!) • While performing the work below, ink may leak from the cap part.
Using a waste cloth etc., prevent ink stain on the valve part.

1
Select [AIR PG] of the maintenance menu.

(1) Press the (FUNCTION) key in LOCAL.
(2) Press (▲)(▼) to select [MAINTENANCE] and press the (ENTER) key.
(3) Press (▲)(▼) to select [AIR PG].

2
Press the (ENTER) key.

```
PREPARE  AIR PG
COMPLETED        [ENT]
```

3
Remove the right front cover and the right maintenance cover, and then remove head cover.

Right front cover

Right maintenance cover
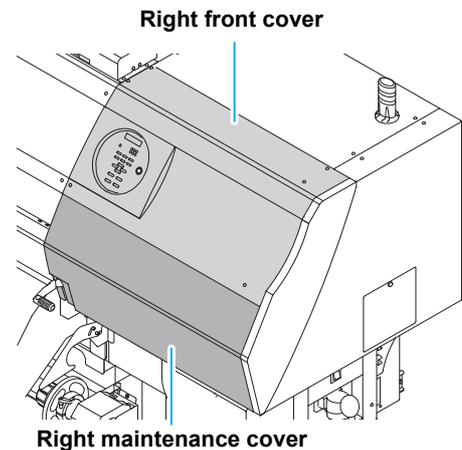
4
Press the (ENTER) key.

```
AIR PG
START            [ENT]
```

5
Discharge the ink from the valve of the Y-port.

• Insert the syringe into the valve of Y-port and then slowly withdraw about 10cc of the ink.

(Important!) • Be careful not to spatter the ink around during the work.
• Mask the around valves properly with the waste cloth or adequate materials in order to protect the circuit board that is closely placed.

6

Set the syringe with pressure damper to the ink port valve.

- Insert the syringe with pressure damper into the ink port valve and suck out ink of 5cc (at a speed of 3 sec. per cc) slowly.
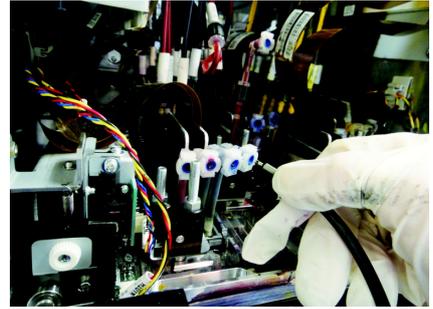
(Important!)
- Do not push the valve part of the syringe with pressure damper. Otherwise, ink absorption cannot be performed.
- When discarding ink in the syringe, remove the syringe part from the tube and then discard it. If you remove the syringe part, ink in the tube may run down. Before performing the work, it is recommended to cover around it with a waste close etc. to prevent it from stained.

Tube

Syringe

Valve part
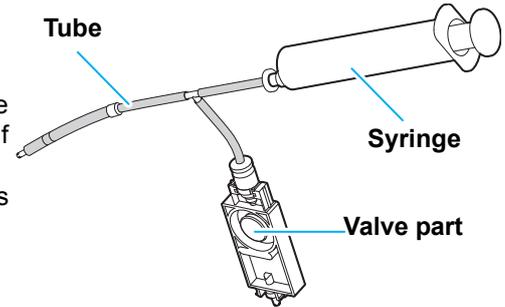
7

Discharge ink or purge air.

- The discharged ink or air is pooled in the bottle of the air purge jig.
- Discharge mixed ink or air completely. When it is discharged completely, clear ink (not mixed) is discharged.

8

Perform the procedures from 5 to 7 on all ports which have to be purged the air.

9

Press (ENTER) key after all procedures are completed.

```
AIR PG
COMPLETED        [ENT]
```

10

Terminate air purge by pressing the (ENTER) key.

- Close the port.
- When some port is skipped the air-purge, press (▶) to return to the step 4.

```
AIR PG
END <        > RETRY
```

11

Press (◀).

- Cleaning is performed.

```
** CLEANING **
   PLEASE WAIT
```

12

Press (END) the key several times to end the setting.

⚠ **Caution**
- Be aware that if you leave the device for a long time during the air purge, ink may leak from the cap section.
  If the air purge continues for 20 minutes or longer, this device forcibly shuts down the air purge in order to prevent ink leaks.

If negative pressure abnormality occurs

By the environment or aging, the pressure controlled in this machine may exceed the control range.
If an error related to pressure abnormality occurs, perform the procedures below:

(Important!) • If pressure abnormality occurs, immediately adjust the pressure with the following procedures and return it to the normal value.

1 **Select [PRESSURE ADJUST] of the maintenance menu.**

(1) Press the (FUNCTION) key.
(2) Press (▲)(▼) to select [MAINTENANCE] and press the (ENTER) key.
(3) Press (▲)(▼) to select [PRESSURE ADJUST].

2 **Press (▲)(▼) to select POSITIVE or NEGATIVE.**

```
PRESSURE ADJUST
:NEGATIVE
```

3 **Press the (ENTER) key.**

```
Open Throttle Valve
COMPLETED      [ENT]
```

4 **Remove the cover under the left maintenance cover.**

• Remove the screws (for five positions) in the part indicated with circles in the figure.
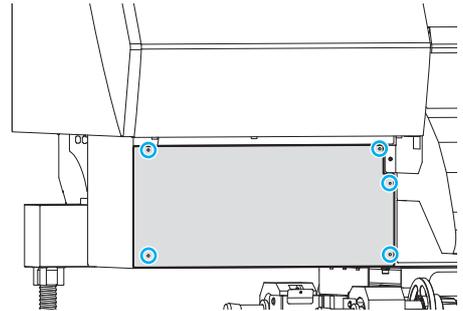
5 **Rotate the adjustment screw of the throttle valve to release it so that air can flow.**

• Rotate it until the adjustment screw of the throttle valve comes to the middle position.

Adjustment screw

Negative Pressure

Turn the adjustment screw to this position.

Positive pressure

Adjustment screw

5

Troubleshooting
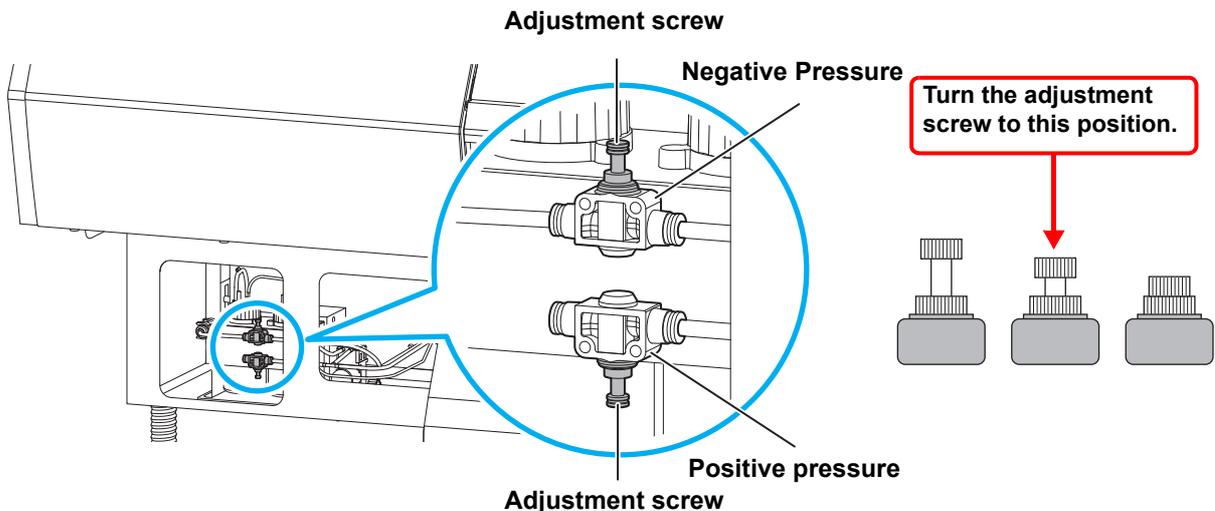
6 Press the (ENTER) key.

• Sensor adjustment starts.

```
** ADJUSTING **
   PLEASE WAIT
```

7 Rotate the adjustment screw of the throttle valve to adjust the pressure so that it becomes the proper value.

```
PRESSURE
-4.00kPa    (-4.00)
```

Current pressure value   **Target pressure value**

• Proper value of negative pressure: -4.00kPa
  Proper value of positive pressure: 15.00kPa
• As the negative pressure changes between ±0.1 kPa, adjust so that the intermediate value may become the target pressure.

• Pressure is informed with the buzzer and the ink bottle lamp as well as the screen display.
• For the negative pressure, the buzzer stops within the range of ±0.1kPa. For the positive pressure, the buzzer stops within the range of ±1.0kPa.

• Status of lamp and buzzer for each pressure value

Ink bottle lamp

Pressure		Ink bottle lamp	Buzzer
	Positive pressure	Negative pressure		
High	~ 8.49	~ -3.35	○○○○ ○○○●	Sounds
	8.50 ~ 9.49	-3.36 ~ -3.45	○○○○ ○○●●	
	9.50 ~ 10.49	-3.46 ~ -3.55	○○○○ ○●●●	
	10.50 ~ 11.49	-3.56 ~ -3.65	○○○○ ●●●●	
	11.50 ~ 12.49	-3.66 ~ -3.75	○○○● ●●●●	
	12.50 ~ 13.49	-3.76 ~ -3.85	○○●● ●●●●	
	13.50 ~ 13.49	-3.86 ~ -3.95	○●●● ●●●●	Stops
Proper value	14.50 ~ 15.49	-3.96 ~ -4.05	Y Y K K ●●●● / ●●●● B B M M	Stops
Low	15.50 ~ 16.49	-4.06 ~ -4.15	●●●○ ●●●●	Stops
	16.50 ~ 17.49	-4.16 ~ -4.25	●●○○ ●●●●	Sounds
	17.50 ~ 18.49	-4.26 ~ -4.35	●○○○ ●●●●	
	18.50 ~ 19.49	-4.36 ~ -4.45	○○○○ ●●●●	
	19.50 ~ 20.49	-4.46 ~ -4.55	●●●● ●●●○	
	20.50 ~ 21.49	-4.56 ~ -4.65	●●●● ●●○○	
	21.50 ~ 22.49	-4.66 ~ -4.75	●●●● ●○○○	
	22.50 ~ 23.49	-4.76 ~ -4.85	●○○○ ○○○○	
	23.50 ~	-4.86 ~	○○○○ ○○○○	
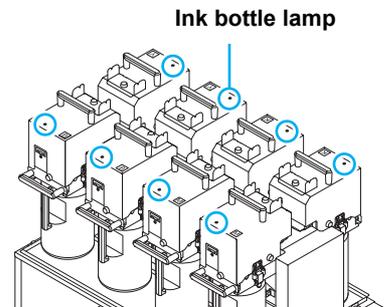
8 Press the (ENTER) key.

• The error is released and the negative pressure control starts.

```
PLEASE WAIT
```

Important!
• When an error occurs even after you adjusted the pressure, contact your local distributor to call for service.

If a head failure error is displayed

If the above errors occur when the power is turned on, you can use the following procedure to continue operation.

Head failure error to be subjected

If the head failure error that has not been described here has been displayed turn off the power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for service.

Error No.	Cause	Error No.	Cause
ERROR 108 (HD CONNECT)	Head connection can not be con-firmed.	**ERROR 1ab** (HD THERMIS)	Temperature of the head could not be read
ERROR 12e (HEAD Failed/ HDD)	Abnormality of the Driver of the Print head.	**ERROR 1ad** (HD TYPE)	Head type is different
ERROR 1ac (HD MEM EMP)	There is no data in the head memory		

Important! **During the head failure error occurs, printing is possible using a different head that is operating normally.**

- **For a partial head failure**
  - ⇨ printing is possible using a different head that is operating normally.
  - ⇨ Feed correction (P.2-32), correct the ink drop position (P.2-34), test print(P.2-29) are possible using heads other than the heads where the failure occurred.
- **For a total head failure**
  - ⇨ Only maintenance such as cleaning is possible.
  - ⇨ Flushing is not possible for the head where the failure occurred.
  - ⇨ Refresh(P.4-22) is not possible even if Refresh is selected during auto maintenance. (Cleaning is performed.)

5

What to do if an error occurs

1 **Error number is displayed on the display.**

```
      ERROR  108
HD  CONNECT[123456   ]
```

```
      ERROR  108
PRESS  [ENT]  KEY
```

2 **Press the** ENTER **key.**

```
ACT  LIMIT
HEAD  SELCT      [ENT]
```

Important! • If all heads are not usable, the right screen appears.
In this case, only maintenance is possible.

```
ACT  LIMIT
Can't PRINT/BTL  [ENT]
```

3 **Press the** ENTER **key.**
• Head line select screen appears.

```
HEAD  SELCT
:HEADline1&2
```

4 **Press** ▲ ▼ **, to select head line to use.**
• You cannot select a head where an error has occurred.
  (If there is a failure in head line 2, you cannot select head lines 1 & 3.)

```
HEAD  SELCT
:HEADline1&2
```

5 **When the operation is complete, the Select Media
screen appears and can be used.**

```
      MEDIA  SELECT
ROLL  <          >  LEAF
```

Important! • During printing, an "X" is displayed for the head line that includes the head where the failure
occurred.

When media heaves up at feeding

We call the status of heaving media at feeding "cockling".
When media cockling occurs, check the following items:

Note/ checking items	Measures
Checking media set status	**(1)** Check that the media is set straight and reset it.
Adjusting heater temperature	**(1)** Use the POST ② heater only. **(2)** Lower all heaters' temperatures. (When you lower the heater temperature, drying time may not be enough. Lower the FEED SPEED.)
Media feeding	**(1)** For roll media, feed the media by about tens of centimeters to one meter. **(2)** For leaf media, press ▲▼ and perform feed/ back feed.
Do not leave the media in the heater warming status	**(1)** Do not start printing with the media cockled because it may cause media jam.
Heighten the head	**(1)** For the thick media, make the head gap higher before printing.

5

Troubleshooting

Warning / Error Messages

If some trouble occurs, the buzzer sounds and the display shows a corresponding error message.
Take an appropriate remedy for the displayed error.

Warning messages

Errors when performing operations

Message	Cause	Solution
CAN'T OPERATE COVER OPEN	The front cover or the maintenance cover is opened.	• Check the front cover and maintenance covers. • If the same error message appears again even after closing all the covers, contact your local distributor to call for service.
CAN'T OPERATE MEDIA UNDETECTED	The media has not been detected.	• Perform media detection.
CAN'T OPERATE MOTOR POWER OFF	The motor is OFF after the cover was opened etc.	• Close the front cover and maintenance covers (right and left).
CAN'T OPERATE INK ERROR	An ink error occurred.	• Check the ink bottle for the supply path corresponding to the indicated color.
CAN'T OPERATE DATA REMAIN	Data was received.	• Perform data clear. (P.2-37)

Message displayed in LOCAL

Message	Cause	Solution
<LOCAL> Can'tPRINT/CART.[ENT]	Ink errors (unusable ink) occur in multiple ink bottles. Ink supply (print, cleaning, etc.) cannot be performed.	• Press the ENTER key to check the ink bottle generating the warning. Replace them with usable ink bottles.
<LOCAL> Waste ink full	The waste ink tank is full.	• Check the waste ink tank.
<LOCAL> Waste ink near full	The waste ink tank is nearly full.	
<LOCAL> Waste ink tank none	The waste ink tank is not set.	• Set the waste ink tank.
<LOCAL> Replace a WIPER[MNT]	Time to replace the wiper in the capping station with a new one has come. (The wiping count has reached the specified value.)	• Press the MAINT. key and replace the wiper with a new one. (P.4-25)
<LOCAL> ** NO MEDIA **	The media is not set. The sensor has been broken.	• Set the media. (P.2-7) If the same error message appears again, contact your local distributor to call for service.
<LOCAL> DATA REMAIN	The data has been received.	• Press the REMOTE key to perform printing. Or, perform data clear.

Message	Cause	Solution
`<LOCAL>` `NEGATIVE PRESSURE`	The value of the negative pressure sensor is abnormal.	• Perform "PRESSURE ADJUST" (☞ P.5-9) of the maintenance. If you cannot adjust it to the normal value, or, even if you perform, it may be displayed, contact your local distributor to call for service.
`<LOCAL>` `POSITIVE PRESSURE`	The value of the positive pressure sensor is abnormal.	
`<LOCAL>` `NEGATIVE P.ADJUST`	Pressure needs to be adjusted.	• Contact your local distributor to call for service.
`<LOCAL>` `INK NEAR END    [ENT]`	The ink of the ink bottle has been nearly used up.	• Press the (ENTER) key to check the relevant ink bottle. Be careful because it may be INK NEAR END soon.
`<LOCAL>` `EXPIRATION       [ENT]`	The specified expiration date of an ink bottle has passed.	The expiration date has passed. However, you can use it until the end of the following month.
`<LOCAL>` `EXPIRATION(1M) [ENT]`	The expiration date of an ink bottle has passed (one month has passed after the specified expiration date).	• One month has passed after the expiration date. However, you can use it until the end of this month. (The ink bottle lamp blinks in red.)
`<LOCAL>` `EXPIRATION(2M) [ENT]`	The expiration date of an ink bottle has passed (two months have passed after the specified expiration date).	Two months have passed after the expiration date. Replace the ink bottle generating the warning with a new one.
`<LOCAL>` `SUPPLY INK :MMBBYYKK`	Ink could not be supplied to the sub tank.	• Perform "SUB TANK" (☞ P.5-6) of the maintenance. Also check the remaining amount of ink in the ink bottle. Even if you performed this, when the message is displayed, contact your local distributor to call for service.
`<LOCAL>` `SubtankSens:MMBBYYKK`	The liquid level sensor abnormality of the sub tank has been detected.	• Turn off the power to the machine and turn it on after a while. • If the same error message appears again, contact your local distributor to call for service.
`<LOCAL>` `InkOverflow:MMBBYYKK`	Overflow from the sub tank has been detected.	• Perform "SUB TANK" (☞ P.5-7) of the maintenance. Even if you performed this, when the message is displayed, contact your local distributor to call for service.
`<LOCAL>` `TANKlevrlH :MMBBYYKK`	Though a certain amount was consumed, there is no change in the sub tank sensor High.	
`<LOCAL>` `TANKlevrlL :MMBBYYKK`	Though a certain amount was consumed, there is no change in the sub tank sensor Low.	
`<LOCAL>` `Replace DeAirModule`	The deaeration module in the ink path shall be replaced soon. (One year has passed since you started using it.)	• The deaeration module shall be replaced. Contact a distributor in your district, our office, or our call center.
`<LOCAL>` `MachineTEMP/Hi ***°C`	The machine temperature is high.	• Adjust the ambient temperature of the installation place.
`<LOCAL>` `MachineTEMP/Lo ***°C`	The machine temperature is low.	

Message	Cause	Solution
`<LOCAL>` `Ymotor Cleaning[MNT]`	Time to clean the Y motor has come.	• Turn off the power and vacuum debris of the Y motor from the vacuuming window. (☞ P.4-24) • After the replacement, press the (MAINT.) key on the local screen to clear the warning.
`<LOCAL>` `Replace Ymotor Brush`	Time to replace the brush of Y motor has come.	• The brush of Y motor shall be replaced. Contact a distributor in your district, our office, or our call center.
`<LOCAL>` `E.HEATER ERROR`	An abnormality of the external heater has been detected.	• Contact a distributor in your district, our office or our call center. • When you do not use the external heater, set the external heater to "OFF" in the "HEATER" of the Setting Mode (☞ P.3-3). By doing this, you can perform printing.
`<LOCAL>` `E.HEATER CONNECT`	The external heater is not connected correctly.	• Check the connection between this machine and the external heater. • Even if you performed this, if the same error is displayed, contact a distributor in your district, our office or our call center. • When you do not use the external heater, set the external heater to "OFF" in the "HEATER" of the Setting Mode (☞ P.3-3). By doing this, you can perform printing.
`<LOCAL>` `Take-UP CoverOPEN`	The cover of the media take-up machine was open was detected.	• Check the cover of the media take-up machine. Even if you close the cover, if the same error is displayed, contact a distributor in your district, our office or our call center.
`<LOCAL>` `Take-UP LimitDETECT`	The control limit sensor of the media take-up machine was detected.	• Lower the position of the tension bar at the take-up side. Even if you lower the position, if the same message is displayed, contact a distributor in your district, our office or our call center.
`<LOCAL>` `Take-UP WRONG`	An abnormality occurred in the take-up status of the media take-up machine.	• Check that the media is set on the media take-up machine correctly. • Check that the paper core for taking up media does not run idle.
`<LOCAL>` `Feeding CoverOPEN`	The cover of the media feeding machine was open was detected.	• Check the cover of the media feeding machine. Even if you close the cover, if the same error is displayed, contact a distributor in your district, our office or our call center.
`<LOCAL>` `Feeding LimitDETECT`	The control limit sensor of the media feeding machine was detected.	• Lower the position of the tension bar at the feeding side. Even if you lower the position, if the same message is displayed, contact a distributor in your district, our office or our call center.
`<LOCAL>` `Feeding WRONG`	An abnormality occurred in the feeding status of the media feeding machine.	• Check that the media is set on the media feeding machine correctly. • Check that the paper core of roll media does not run idle.
`Mist Filter` `Please Replace [ENT]`	Time to replace the mist filter has come.	• For replaceing the filter, refer to the separate "Requests for Daily Care and Maintenance".

Message	Cause	Solution
!PRT HEATER BRK !POST HEATER BRK !POST2 HEATER BRK	A platen heater is disconnected.	• Turn off the main power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for service.

Ink Error

Ink error is displayed also in the local guidance. (☞ P.3-46)

Message	Cause	Solution
NON INK IC :---- YYKK WRONG INK IC :---- YYKK	The IC chip of the ink bottle cannot be read normally.	• Remove the IC chip generating the warning once and install it again. • If the same warning message still appears, contact your local distributor to call for service.
KIND OF INK :---- YYKK	The ink of the ink bottle is different in type from the ink currently supplied.	• Check the ink type of the ink bottle generating the warning. • Check the IC chip.
COLOR OF INK :---- YYKK	The ink of the ink bottle is different in color from the ink currently supplied.	• Check the ink color of the ink bottle generating the warning. • Check the IC chip.
WRONG INK BOTTLE :---- YYKK	An error occurred in the IC chip information of the ink bottle.	• Check the ink bottle generating the warning.
NO INK BOTTLE :---- YYKK	The ink bottle is not set on the external ink supply unit.	• Set the ink bottle on the bottle holder with the warning.
INK END :---- YYKK	The ink of the ink bottle has been completely used up.	• Replace the ink bottle generating the warning with a new one.
INK NEAR END :---- YYKK	The ink of the ink bottle has been nearly used up.	• Replace the ink bottle generating the warning with a new one.
CHCK INK BOTTLE :---- YYKK	Even when there are enough ink, ink end has been detected.	• Check the ink bottle setting status.
EXPIRATION :---- YYKK	The specified expiration date of an ink bottle has passed.	The expiration date has passed. However, you can use it until the end of the following month.
EXPIRATION(1MONTH) :---- YYKK	The expiration date of an ink bottle has passed (one month has passed after the specified expiration date).	• One month has passed after the expiration date. However, you can use it until the end of this month. (The ink bottle lamp blinks in red.)
EXPIRATION(2MONTH) :---- YYKK	The expiration date of an ink bottle has passed (two months have passed after the specified expiration date).	Two months have passed after the expiration date. Replace the ink bottle generating the warning with a new one.

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Troubleshooting

Error messages

When an error message is displayed, eliminate the error according to the chart below.
If the same error message appears again, contact your dealer or an office of MIMAKI to call for service.

Message	Cause	Solution
`ERROR 108` `HD CONNECT[12345678]`	Head connection can not be confirmed.	• Turn off the power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for service.
`ERROR 108` `HD THERMIS[12345678]`	Head temperature can not be read.	
`ERROR 12a` `HDC SPEED`	Abnormality of the ink discharge waveforms.	
`ERROR 12e` `HeadFaild /HDC[xxxx]`	Abnormality of the Driver of the Print head.	
`ERROR 122` `CHECK:SDRAM`	There is no PRAM.	
`ERROR 128` `HDC FIFO OVER`	Data transmission speed is too fast. Control circuit board is defective.	
`ERROR 128` `HDC FIFO UNDER`	Data transmission speed is too slow. Control circuit board is defective.	
`ERROR 129` `BATTERY EXCHANGE`	The battery life end of the internal clock is detected.	• Contact your local distributor to call for service.
`ERROR 130` `HD DATA SEQ`	Head data transferring sequence error occurred.	• Turn off the power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for service.
`ERROR 146` `E-LOG SEQ`	Sequential number abnormality of the event log occurred.	
`ERROR 151` `Main PCB V12R`	An error occurred in the main PCB 1.2V power supply.	
`ERROR 152` `Main PCB V2R5`	An error occurred in the main PCB 2.5V power supply.	
`ERROR 153` `Main PCB V3R3`	An error occurred in the main PCB 3.3V power supply.	
`ERROR 154` `Main PCB V05`	An error occurred in the main PCB 5V power supply.	
`ERROR 155` `Main PCB V36-1`	An error occurred in the main PCB 36-1 power supply.	
`ERROR 156` `Main PCB V5B`	An error occurred in the main PCB 5VB power supply.	
`ERROR 157` `Main PCB VTT`	An error occurred in the main PCB VTT power supply.	
`ERROR 158` `Main PCB V36-2`	An error occurred in the main PCB 36-2V power supply.	

Message	Cause	Solution
ERROR 16e Main PCB V3R3B	An error occurred in the main PCB 3.3VB power supply.	• Turn off the power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for service.
ERROR 18a Main PCB V_CORE	An error occurred in the main PCB VCORE power supply.	
ERROR 18b Main PCB V1R5B	An error occurred in the main PCB 1.5V power supply.	
ERROR 18c Hain PCB V12	An error occurred in the main PCB 12V power supply.	
ERROR15f HEAD DRIVE HOT	COM driver becomes the high temperature.	
ERROR 171 NEW HEAD CONNECT	New Print Head was recognized.	
ERROR 172 Main PCB Q6 Check K	The main PCB Q6 is disabled (short mode).	
ERROR 186 HDC OVERFLOW	An error is detected on the waveform printed on.	
ERROR 186 HDC UNDERFLOW		
ERROR 187 HDC SLEW RATE		
ERROR 188 HDC MEMORY		
ERROR 18e FLS NOT COMP [12__]	Abnormality of the flushing control.	
ERROR 18f OFFSET START [12__]	Abnormality of the head voltage control.	
ERROR 18f OFFSET END [12__]		
ERROR 19d HDC V36 [xxxx]	Abnormality of the HDC substrate voltage.	
ERROR 201 COMMAND	The machine received some data other than command data.	• Securely connect the interface cable in position. • Use an interface cable conforming to the specifications.
ERROR 202 PARAMETER	Any parameter outside the range of acceptable numeric values was received.	
ERROR 203 Ment Command	A maintenance command error occurred.	
ERROR 304 USB INIT ERR	USB device initialization failure.	• Turn off the main power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for service.

Message	Cause	Solution
ERROR 305 USB TIME OUT	Occurrence of a time out error on a USB device.	• Turn off the main power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for service.
ERROR 401 MOTOR X	An excessive load was applied to the X motor.	
ERROR 402 MOTOR Y	An excessive load was applied to the Y motor.	
ERROR 403 X CURRENT	An error due to an excessive current of the X motor was detected.	
ERROR 404 Y CURRENT	An error due to an excessive current of the Y motor was detected.	
ERROR 423 TAKE-UP TENSION BAR	An error was detected in the take-up tension bar at media set check when starting printing.	• Check the media set status, and solve the problem.
ERROR 424 FEEDING TENSION BAR	An error was detected in the feeding tension bar at media set check when starting printing.	• Check the media set status, and solve the problem.
ERROR 425 Take-UP WRONG	An error occurred in the take-up status of the take-up unit.	• Check that the media can be taken up to the take-up unit. • Check that the paper core taking up the media does not run idle.
ERROR 426 Feeding WRONG	An error occurred in the feeding status of the feeding unit.	• Check that the media can be taken up to the feeding unit. • Check that the media does not run idle.
ERROR 427 Take-UP CoverOPEN	The take-up cover opened during printing.	• Close the take-up cover.
ERROR 428 Feeding CoverOPEN	The feeding cover opened during printing.	• Close the feeding cover.
ERROR 429 Take-UP LimitDETECT	The take-up limit sensor was detected during printing.	• Lower the tension bar or move it to the waiting position.
ERROR 42a Feeding LimitDETECT	The feeding limit sensor was detected during printing.	• Lower the tension bar or move it to the waiting position.
ERROR 42b Take-UP Bar Shelter.	The tension bar is in the upper position during printing.	• Lower the tension bar.
	The tension bar does not move to the waiting position at media cutting etc.	• Move the tension bar to the waiting position.
ERROR 42b Feeding Bar Shelter	The tension bar is in the upper position during printing.	• Lower the tension bar.
ERROR 447 CUTTER ENCODER ERR	An error occurred in the cutter encoder.	Turn off the main power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for service.
ERROR 44d STATION POS ERROR	An error occurred in the station position.	Turn off the main power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for service.

Message	Cause	Solution
ERROR 453 Take-UP Direction	The take-up direction of the media set on the media take-up machine is outside the recommended specification ("revoluted").	• Make the media take-up direction "involuted".
ERROR 505 MEDIA JAM	The media jam occurs.	• Remove the media and reset it.
ERROR 50c MEDIA WIDTH SENSOR	The media width has not been detected correctly.	• Check the media set position. (☞ P.2-24) • Clean the media sensor. (☞ P.4-4)
ERROR 510 THICKNESS DETECT	The media thickness could not be detected correctly.	• Enter the media thickness manually. (☞ P.2-18) • Perform media detection again.
ERROR 509 HDC POSCNT	A HDC position counter error occurred.	• Turn off the main power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for service.
ERROR 50a Y ORIGIN	Y-origin could not be detected.	
ERROR 50f L-SCALE BLACK	Abnormal linear scale.	
ERROR 519 NEGATIVE P.SENSOR	The value of the negative pressure sensor is abnormal.	• Perform "PRESSURE ADJUST" (☞ P.5-9) of the maintenance. If you cannot adjust it to the normal value, or, even if you perform, it may be displayed, contact your local distributor to call for service.
ERROR 51a POSITIVE P.SENSOR	The value of the positive pressure sensor is abnormal.	
ERROR 53c Print Pos HDC	An error occurred in the linear scale coordinates.	• Turn off the main power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for service.
ERROR 617 SUBTANK SNN:12345678	The liquid level sensor abnormality of the sub tank has been detected.	
ERROR 618 TANKlevelH :12345678	Though a certain amount was consumed, there is no change in the sub tank sensor High.	• Perform "SUB TANK" (☞ P.5-6) of the maintenance. Even if you performed this, when the message is displayed, contact your local distributor to call for service.
ERROR 619 TANKlevelL :12345678	Though a certain amount was consumed, there is no change in the sub tank sensor Low.	
ERROR 61a OVER FLOW :12345678	Overflow from the sub tank has been detected.	
ERROR 61b SUPPLY INK :12345678	Ink could not be supplied to the sub tank.	• Perform "SUB TANK" (☞ P.5-6) of the maintenance. Also check the remaining amount of ink in the ink bottle. Even if you performed this, when the message is displayed, contact your local distributor to call for service.
ERROR 61c NEGATIVE P.CONTROL	Starting of the negative pressure control has an abnormality.	• Perform "PRESSURE ADJUST" (☞ P.5-9) of the maintenance. If you cannot adjust it to the normal value, or, even if you perform, it may be displayed, contact your local distributor to call for service.
ERROR 61d NEGATIVE P.NotEnough	The negative pressure cannot be kept properly	
ERROR 61e NEGATIVE P. OVER		

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Troubleshooting

Message	Cause	Solution
ERROR 61f POSITIVE P.CONTROL	Starting of the positive pressure control has an abnormality.	• Perform "PRESSURE ADJUST" (☞ P.5-9) of the maintenance. If you cannot adjust it to the normal value, or, even if you perform, it may be displayed, contact your local distributor to call for service.
ERROR 620 POSITIVE P.NotEnough	The positive pressure cannot be kept properly.	
ERROR 621 POSITIVE P. OVER		
ERROR 627 INSERT CARTRIDGE	There is a slot in which the ink bottle has not been inserted more than a certain time.	• Set an ink bottle.
ERROR 637 INK LEAK 1--	The ink leakage is detected in the ink supply path.	• Turn off the main power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for service.
ERROR 649 NEGATIVE P.ADJUST	Pressure needs to be adjusted.	• Perform "PRESSURE ADJUST" (☞ P.5-9) of the maintenance. If you cannot adjust it to the normal value, or, even if you perform, it may be displayed, contact your local distributor to call for service.
ERROR 702 THERMISTOR	The thermistor of a heater is defective.	• Turn off the main power to the machine and turn it on after a while. • If the same error message appears again, contact your local distributor to call for service.
ERROR 707 !H1 HEATER BREAK	A head heater is disconnected.	
ERROR 901 INVZLID OPERATION	You have executed the operation that cannot be performed.	
ERROR 902 DATA REMAIN	There remains received data that has not yet been printed.	• Execute the data clear function. (☞ P.2-37)
ERROR 90d NO HEAD SELECT	The number of mounted heads is 0 (zero).	• Turn off the main power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for service.
ERROR 910 ENVIRONMENT TEMP(LO)	The ambient temperature is out of the usable temperature range (too low).	• Adjust the ambient temperature of the installation place.
ERROR 911 ENVIRONMENT TEMP(HI)	The ambient temperature is out of the usable temperature range (too high).	

SYSTEM HALT

Message	Solution
SYSTEM HALT 000: MESSAGE	Turn off the main power to the machine and turn it on after a while. Check the number and contact your local distributor to call for service. ("000" is the error No.)

Chapter 6
Appendix

This chapter

contains the lists of the specifications and functions of this machine.

Specifications

Machine specifications

Item		Specifications
Print head	Method	Drop-on-demand piezoelectric print heads
	Specification	6 heads: 3-layered staggered arrangement in 2-line
Drawing mode (scan x feed)	4 colors	300x300 : Bi/Uni 1/2/4 pass (only normal mode) 300x300HQ : Bi/Uni 2/4/8 pass (only normal mode) 300x450HQ : Bi/Uni 3/6/12 pass (only normal mode) 600x600 : Bi/Uni 4/8/16 pass 600x900 : Bi/Uni 6/12/24 pass 600x1200 : Bi/Uni 8/16/32 pass
	6 colors or more	300x300 : Bi/Uni 2/4/8 pass (only normal mode) 300x300HQ : Bi/Uni 4/8/16 pass (only normal mode) 600x450 : Bi/Uni 6/12/24 pass 600x600 : Bi/Uni 8/16/32 pass 600x900 : Bi/Uni 12/24/48 pass 600x1200 : Bi/Uni 16/32/64 pass
Usable inks	4 colors	Sb300 (Y,M,B,K) , Sb310 (Y,M,B,K)
	6 colors	Sb300 (Y,M,B,K,Lb,Lm) , Sb310 (Y,M,B,K,Lb,Lm)
Ink supply		Supplying 2L x 8 bottles (For 4-color, UISS switching is available/ for 6-color, UISS switching is available only for Y, K./ You can transfer the remaining ink in the used ink bottle to the new one.)
Capacity of ink bottle	4 colors	2L-bottle x 2 for each color
	6 colors	M, B, Lm, Lb: 2L-bottle x 1 for each color Y, K: 2L-bottle x 2 for each color
Media type		Photo paper
Max. printing width		1890mm
Roll Media size	Maximum	1910mm
	Minimum	297mm
	Thickness	0.2 mm or less
	Roll outside diameter	φ 300mm or less
	Roll weight [*1]	60kg or less
	Roll inside diameter	3 inches
	Printing surface	Side facing outward
	Roll end treatment	The roll end is gently fixed to the core with weak-adhesive tape or weak glue for easy removal.
Leaf media size	Maximum	1910mm
	Minimum	297mm
Margin	Leaf media	Left end and right end : 15 mm (Default) Front : 150.0 mm Rear : 400 mm
	Roll media	Left end and right end : 15 mm (Default) Front : 150.0 mm Rear : 0 mm
Distance accuracy	Absolute accuracy	Whichever the larger one of ± 0.3 mm or ± 0.3 % of the designated
	Reproducibility	Whichever the larger one of ± 0.2 mm or ± 0.1 % of the designated
Perpendicularity		± 0.5 mm / 1000 mm
Media skew		5 mm or less / 10 m variable
Head height adjustment		1.5mm to 7mm Single-step user setting (media thickness automatic recognition)
Cutting of media		Cutting of Y direction by the head cutter, Cutting accuracy (steps) : 1.0 mm or less.
Media delivery		Take-up device supplied as a standard accessory (switching possible between face in and face out [*2]).
Waste ink tank		Bottle type (3,200 cc)/ Detected by sensor
Interface		USB 2.0
Command		MRL- III
Noise [*3]	during standby	Less than 58 dB (FAST-A, Front & Rear & Left & Right 1 m)
	during continuous printing	Less than 65 dB
	during discontinuous printing	Less than 70 dB

Item		Specifications
Safety Standard		VCCI-Class A, FCC-Class A, UL 60950, CE Marking (EMC,Low Voltage Directive,Machinery Directive), CB Report, RoHS
Power		AC200 - 240 ± 10% , 50/60Hz ± 1Hz , 20A or less
Power consumption [*4]		4800 W or less
Recomended Environment	Available temp.	20 °C to 30 °C (68°F to 86°F)
	Humidity	35 to 65% Rh (No condensation)
	Guaranteed temp.	20 °C to 25 °C (68°F to 77°F)
	Temperature change	± 10 °C / h or less
	Dust	0.15mg/m^3 (Equivalent to normal office level)
	Highest operation height	2000 m
Weight	Printer main unit	750 kg
	External ink supply unit	30 kg
Outside dimensions [*5]	Printer main unit	3830 mm(W) x 1440 mm(D) x 1700mm(H)
	External ink supply unit	775 mm(W) x 490 mm(D) x 785mm(H)

*1. Without deflection of the roll when it is retained at both ends.
*2. "Involuted" for the media take-up direction is recommended.
*3. 67.7dB(A), Operating Condition: Full load Measuring Method: According to clause 1.7.4.2 of Machinery Directive 2006/42/EC
*4. Main unit and heater included.
*5. When take-up machine/ feeding machine are flat

Ink specifications

Item		Specifications
Supply		2L Ink bottle
Color	4 colors	Black ink Blue ink Magenta ink Yellow ink
	6 colors	Black ink Blue ink Magenta ink Yellow ink Light blue ink Light magenta ink
Ink capacity		2 liter
Shelf life		The period is printed on the ink bottle. Within three months after opening the package even in the available period.
Storage temperature	Storage	1 to 40˚C (Storage at temperature of 40˚C is permitted within a month.)
	Transportation	1 to 60˚C (Storage at temperature of 60˚C is only permitted within 120 hours, and at temperature of 40˚C is permitted within a month.)

(Important!)
● **Do not disassemble the ink bottle.**
● **Ink could freeze if kept in a cold place for an extended period.**
• If the ink freezes, thaw it at room temperature (25°C) spending more than three hours before use.However, when you use the frozen ink, the printing quality becomes degraded due to altered ink. Store ink in the environment where ink may not freeze.

The setting value and the setting orders of the ink bottles differ depending on the ink type you use.

Setting orders of ink bottles

The orders of ink bottles set in the ink station differ depending on the ink set you use.

- Set the ink bottle aligning with the label pasted on the top surface of the ink cover.

Label
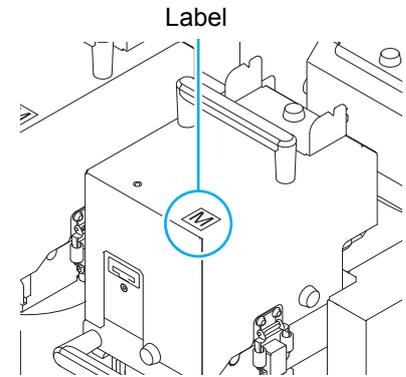
B	B	M	M	4 colors model	K	K	Y	Y
Lb	B	Lm	M	6 colors model	K	Y	K	Y
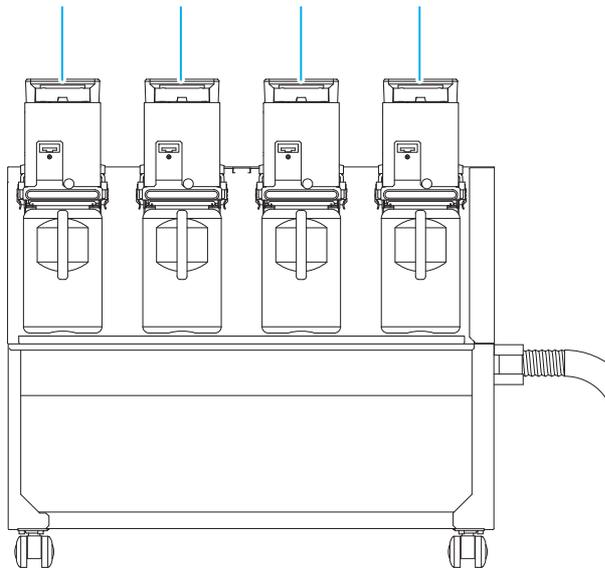
The front side
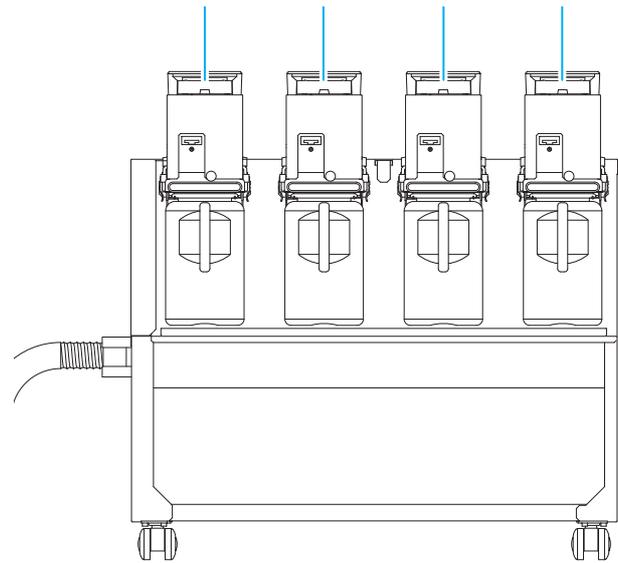
The front side

Sheet for inquiry

Use this sheet for troubles and abnormal functions of the machine.
Fill in the following necessary items, and then fax the sheet to our sales office.

Company name	
Person in charge	
Telephone number	
machine model	
Operating OS	
Machine information *1	
Error message	
Contents of inquiry	

*1. Refer to "Confirming Machine information" of "Convenient using" then fill in necessary information. (☞ P.3-43)

Warning labels

Warning labels are stuck on the machine. Be sure to fully understand the warning given on the labels.
If a warning label is illegible due to stains or has come off, purchase a new one from a distributor or our sales office.

1:**Reorder** .M903239	3:**Reorder** .M903330

4:**Reorder** .M901549

⚠ 注　意	⚠ 注　意	⚠ CAUTION	⚠ ACHTUNG	⚠ ATTENTION
滚轮转动时，请勿将手插入前面外盖的内部。	キャリッジ動作中は、フロントカバーの中に指を入れないでください。	-MOVING CARRIAGE- Do not put fingers inside this area	-Beweglicher Wagen- Finger nicht in diesen Bereich bringen.	-CHARIOT MOBILE- Ne pas mettre de doigts dans cette zone.

5:**Reorder** .M903404	6:**Reorder** .M908973

```
<LOCAL>
        WHIDTH:****mm
```

```
     ORIGIN SET UP
       0.0      ----
```
(ENTER)
```
     ORIGIN SET UP
     ** ORIGIN **
```

(MEDIA)

```
MEDIA CUT
                  [ENT]
```
(ENTER)
```
     ** CUTTING **
      PLEASE WAIT
```

(HEATER)
```
   PRT    POST1  POST2
   35°C   35°C   35°C
```
(ENTER)
```
   35°C   35°C   35°C
  (35°C   35°C   35°C)
```
(ENTER)

(END)

(TEST PRINT/CLEANING)
```
TEST PRINT
(FEED DIR.)      [ENT]
```
(ENTER)
```
     ** PRINTING **
      PLEASE WAIT
```
FEED DIR., SCAN DIR.

(TEST PRINT/CLEANING)

```
CLEANING
TYPE             :SOFT
```
(ENTER)
```
SELECT HEAD
:12
```
(ENTER)
SOFT, NORMAL, HARD

(TEST PRINT/CLEANING)

```
TEST FEED
                  [ENT]
```
(ENTER)
```
BACKWARD FEED
:ON
```
(ENTER)
ON, OFF

(MAINT.)
```
CARRIAGE OUT
                  [ENT]
```
(END)
CARRIAGE OUT
NOZZLE WASH
DISWAY WASH
COSTODY WASH

(DATA CLEAR)
```
DATA CLEAR
                  [ENT]
```
(ENTER)
```
     ** DARA CLEAR **
```
(END)

(MEDIA)
```
HEAD GAP
                  [ENT]
```
(ENTER)
```
HEAD GAP
=                 2.0mm
```

(MEDIA)

```
MEDIA CUT
                  [ENT]
```
(ENTER)
```
MEDIA CUT
CUT POSITION     [▲▼]
```
(▲)(▼)

(ENTER)
```
     ** CUTTING **
      PLEASE WAIT
```

To P.6-10

```
EXTERNAL  HEATER
:OFF
```
ON / OFF

```
  **  CLEANING  **
     00:00:00
```

```
TEST  FEED
START          [ENT]
```
ENTER
```
  **  TEST  FEED  **
    PLEASE  WAIT
```

```
  CUT  POSITION
   0.0      ----
```

ENTER

```
                    ┌─────────────────────┐           ┌─────────────────────┐
  ⟨ADJUST⟩─────────▶│ FEED  COMP.         │  ⟨ENTER⟩  │ FEED  COMP.         │  ⟨ENTER⟩
                    │              [ENT]  │           │ PRINT        [ENT]  │
                    └─────────────────────┘           └─────────────────────┘
                            │
                            ▼
                 ⟨▲⟩ ⟨▼⟩ ⟨ADJUST⟩
                    ┌─────────────────────┐           ┌─────────────────────┐
                    │ DROP.POScorrect     │  ⟨ENTER⟩  │ DROP.POScorrect     │  ⟨ENTER⟩
                    │              [ENT]  │           │ PRINT        [ENT]  │
                    └─────────────────────┘           └─────────────────────┘


                    ┌─────────────────────┐           ┌─────────────────────┐
  ⟨ENTER⟩──────────▶│ Sb300      MMBBYYKK │  ⟨ENTER⟩  │ INK  IC  CAN'T READ │  ⟨ENTER⟩
                    │ REMAIN     99999999 │           │ MMBBYYKK            │
                    └─────────────────────┘           └─────────────────────┘
```

```
  ** PRINTING **          FEED COMP.
    PLEASE WAIT    (ENTER) =                 0
```
-9999 to 9999

```
  ** PRINTING **          PATTERN1              PATTERN2
    PLEASE WAIT    (ENTER) =            0.0 (ENTER) =            0.0 (ENTER)
```
-40 to 40   -40 to 40

Pattern repeats for several minutes

```
WARNING                   MEDIA WIDTH           HEAD GAP
Replace a WIPER[MNT] (ENTER) =         1000mm (ENTER) =           2.0mm (ENTER)
```

```
MEDIA THICKNESS           SERIAL No.            TS500-1800    V2.20
=              0.5mm (ENTER) :********      (ENTER) MRL-III        V2.00 (ENTER)
```

```
RECOVERY NOZZLE:*         H1-A:**      No.1-5        H1-B:**      No.1-5
CONFIRM DETAILS[MNT] (MAINT.) 001/00x/---/---/---  (▲)(▼) 001/00x/---/---/---
```
When there is no recovery, it is not displayed.

```
┌─────────────────────┐          ┌─────────────────────┐          ┌─────────────────────┐
│ <LOCAL>             │  (FUNC)  │ FUNCTION            │ (ENTER)  │      SETUP           │ ──────────
│        WHIDTH:****mm│          │ SETUP        [ENT]  │          │                     │
└─────────────────────┘          └─────────────────────┘          └─────────────────────┘
                                         │ (▲)(▼)
                                         ▼
                                 ┌─────────────────────┐          ┌─────────────────────┐
                                 │ FUNCTION            │ (ENTER)  │    MAINTENANCE      │ ──────────
                                 │ MAINTENANCE  [ENT]  │          │                     │
                                 └─────────────────────┘          └─────────────────────┘
                                         │ (▲)(▼)
                                         ▼
                                 ┌─────────────────────┐          ┌─────────────────────┐
                                 │ FUNCTION            │ (ENTER)  │    MACHINE SET      │ ──────────
                                 │ MACHINE SETUP [ENT] │          │                     │
                                 └─────────────────────┘          └─────────────────────┘
                                         │ (▲)(▼)
                                         ▼
                                 ┌─────────────────────┐          ┌─────────────────────┐
                                 │ FUNCTION            │ (ENTER)  │ INFOMATION          │ (ENTER)
                                 │ INFOMATION   [ENT]  │          │ USAGE        [ENT]  │ ──────────
                                 └─────────────────────┘          └─────────────────────┘
                                                                          │ (▲)(▼)
                                                                          ▼
                                                                  ┌─────────────────────┐
                                                                  │ INFOMATION          │ (ENTER)
                                                                  │ VERSION      [ENT]  │ ──────────
                                                                  └─────────────────────┘
```

To P.6-14

To P.6-18

To P.6-22

WIPING	PRINT LENGTH	PRINT AREA
= 0	= 0m >	= 0m²

(ENTER) (ENTER) (ENTER)

USE TIME	HEAD MAINT.	STATION MAINT.
= 0h	= 0h	= 0h

(ENTER) (ENTER) (ENTER)

TS500-1800 V2.20	NOZZLE WASH	DISWAY WASH
MRL-III V2.00	= 0h	= 0h

(ENTER) (ENTER)

CUSTODY WASH
= 0h

```
            SETUP


SETUP                          FEED COMP.                     ** PRINTING **
FEED COMP.       [ENT]  ENTER  PRINT          [ENT]   ENTER       PLEASE WAIT        ENTER


      ▲ ▼

SETUP                          DROP.POScorrect                ** PRINTING **
DROP.POScorrect[ENT]    ENTER  PRINT           [ENT]  ENTER       PLEASE WAIT        ENTER



      ▲ ▼


SETUP                          PRINT                          POST1
HEATER           [ENT]  ENTER  =               OFF    ENTER    =              OFF    ENTER
      ▲ ▼                                   OFF / 20 to 60°C                    OFF / 20 to 60°C

SETUP                          LOGICAL SEEK
LOGICAL SEEK    <ent>    ENTER  :HOST
      ▲ ▼                              HOST / ON / OFF

SETUP                          OVER PRINT
OVER PRINT       [ENT]  ENTER  =              HOST
      ▲ ▼                               HOST, / 1 to 9

SETUP                          SCAN
DRYING TIME      [ENT]  ENTER  =              HOST
      ▲ ▼                              HOST / 0 to 9.9s

SETUP                          LEFT                           RIGHT
MARGIN           [ENT]  ENTER  =              HOST    ENTER    =              HOST
      ▲ ▼                          HOST / -15 to 85mm                    HOST / -150 to 85mm

SETUP                          REFRESH
REFRESH          [ENT]  ENTER  :HOST                  ENTER
      ▲ ▼                              HOST / Lv.3 to Lv.0

SETUP                          VACUUM
VACUUM           [ENT]  ENTER  :HOST                  ENTER

                                   HOST / WEAK / STANDARD /

SETUP                          FEED SPEED
FEED SPEED       [ENT]  ENTER  =              HOST
                                     HOST / 10 to 200%

      ▲ ▼

   To P.6-16
```

6-14

```
    ┌─────────────────────┐      ┌─────────────────────────┐
    │                     │      │ FEED COMP.     .        │
────┤     Print end       ├──────┤ =                 0     │
    │                     │      │                         │
    └─────────────────────┘      └─────────────────────────┘
                                         -9999 to 9999
```

```
    ┌─────────────────────┐   ┌─────────────────────────┐          ┌─────────────────────────┐
    │                     │   │ PATTERN1                │          │ PATTERN2                │
────┤     Print end       ├───┤ =              0.0      │ (ENTER)  │ =              0.0      │ (ENTER)
    │                     │   │                         │          │                         │
    └─────────────────────┘   └─────────────────────────┘          └─────────────────────────┘
                                     -40.0 to 40.0                         -40.0 to 40.0
```

▶ **Pattern repeats for several minutes**

```
    ┌─────────────────────────┐
    │ POST2                   │
▶───┤ =                  OFF  │
    │                         │
    └─────────────────────────┘
         OFF / 20 to 70°C
```

```
SETUP                        MAPS                         PRINT SPEED ADJUST
MAPS            [ENT]  ENTER  :OFF              ENTER      =            0%
                               OFF / ON                              -50% to +50%


SETUP                        AUTO CLEANING                INTERVAL
AUTO CLEANING   [ENT]  ENTER  :PAGE             ENTER      =         1page      ENTER
                                                                    1 to 1000page
                                 ▲  ▼

                             AUTO CLEANING                INTERVAL
                              :LENGTH           ENTER      =          0.1m       ENTER
                                                                    0.1 to 100.0m
                                 ▲  ▼

              ▲  ▼           AUTO CLEANING                INTERVAL
                              :TIME             ENTER      =         10min       ENTER
                                                                    0.1 to 100m
                                 ▲  ▼

                             AUTO CLEANING
                              :OFF


SETUP                        INTERVAL WIPING
 INTERVAL WIPING[ENT]  ENTER  =               OFF
                                        OFF / 3 to 255min
        ▲  ▼

SETUP                        HEAD GAP
HEAD GAP        [ENT]  ENTER  =            2.0mm
                                        1.5 to 7.0mm
```

```
TYPE
:SOFT
```
SOFT / NORMAL / HARD

```
TYPE
:SOFT
```
SOFT / NORMAL / HARD

```
TYPE
:SOFT
```
SOFT / NORMAL / HARD

```
MAINTENANCE
STATION          [ENT]
```
(ENTER)
```
STATION
CARRIAGE OUT    [ENT]
```
(ENTER)
```
MOVE POSITION
:STATION MAINT.
```
STATION MAINT. / HEAD MAINT.
(ENTER)

▲ ▼

```
STATION
NOZZLE WASH     [ENT]
```
(ENTER)
```
WIPER CLEANING
COMPLETED(NEXT)[ENT]
```
(ENTER)

▲ ▼

```
STATION
DISWAY WASH     [ENT]
```
(ENTER)
```
DISWAY WASH
COMPLETED       [ENT]
```
(ENTER)

▲ ▼

```
STATION
CUSTODY WASH    [ENT]
```
(ENTER)
```
WIPER CLEANING
COMPLETED(NEXT)[ENT]
```
(ENTER)

▲ ▼

```
MAINTENANCE
NOZZLE RECOVERY[ENT]
```
(ENTER)
```
NOZZLE RECOVERY
:PRINT          [ENT]
```
(ENTER)
```
SELECT HEAD
:H1-2
```
H1-2/H3-4/H5-6
(ENTER)

▲ ▼

```
NOZZLE RECOVERY
:ENTRY          [ENT]
```
(ENTER)
```
SELECT HEAD
:H1-2
```
H1-2/H3-4/H5-6
(ENTER)

▲ ▼

```
NOZZLE RECOVERY
:CHECK          [ENT]
```
(ENTER)
```
UNRECOVERABLE COND.
:1200x1200 24p/Hi
```

▲ ▼

```
NOZZLE RECOVERY
:RESET          [ENT]
```
(ENTER)
```
SELECT HEAD
:H1-2
```
H1-2/H3-4/H5-6
(ENTER)

```
CARRIAGE OUT
COMPLETED       [ENT]
```
(ENTER)
```
      Close a cover
COMPLETED       [ENT]
```
(ENTER)
To Local after initializing

```
CAP CLEANING
COMPLETED(NEXT)[ENT]
```
(ENTER)
```
Fill the liquid.
COMPLETED(NEXT)[ENT]
```
(ENTER)
```
LEAVING TIME
=                1min
```
1 to 99min
(ENTER)

```
    Close a cover
COMPLETED       [ENT]
```
(ENTER)
```
    ** CLEANING **
     PLEASE WAIT
```

Open the cover and fill up the cap with cleaning solution.
```
      Close a cover
COMPLETED       [ENT]
```
(ENTER)
```
     DISWAY WASH
     PLEASE WAIT
```

Open the cover and cleaning the wiper.
(ENTER)
```
CAP CLEANING
COMPLETED(NEXT)[ENT]
```
(ENTER)
Cleaning the cap.
(ENTER)

```
Fill the liquid.
COMPLETED(NEXT)[ENT]
```
(ENTER)
Fill up the cap with cleaning solution.
Close the cover
(ENTER)

```
LEAVING TIME
=                1min
```
1 to 99min
(ENTER)
Fill up the cap with cleaning solution.
Close the cover

```
     DISWAY WASH
     PLEASE WAIT
```

```
NOZZLE RECOVERY
PRINT           [ENT]
```
(ENTER)
```
    ** PRINTING **
     PLEASE WAIT
```
(ENTER)

```
SELECT NOZZLE
:H1-A
```
(ENTER)
```
H1-A
No.1:001
```
OFF / 1 to 320
(ENTER)

```
SELECT RESET NOZZLE
:H1-A
```
(ENTER)
```
H1-A RESET?
EXECUTE         [ENT]
```

```
MAINTENANCE
AUTO MAINT.      [ENT]
```
(ENTER)
```
AUTO MAINT.
REFRESH          [ENT]
```
(ENTER)
```
REFRESH
:Lv.1
```
OFF/Lv.1 to Lv.3

(▲)(▼)

```
AUTO MAINT.
CLEANING         [ENT]
```
(ENTER)
```
CLEANING
:OFF
```
(ENTER)

OFF/Lv.1 to Lv.3

(▲)(▼)

```
MAINTENANCE
PRESSURE ADJUST[ENT]
```
(ENTER)
```
PRESSURE ADJUST
:NEGATIVE
```
(ENTER)
```
Open Throttle Valve
COMPLETED        [ENT]
```
(ENTER)

NEGATIVE / POSITIVE

(▲)(▼)

```
MAINTENANCE
SUB TANK         [ENT]
```
(ENTER)
```
SELECT SUBTANK
:MMBBYYKK
```
(ENTER)
```
SUB TANK
EXECUTE          [ENT]
```
(ENTER)

(◄)(►) : Select subtank
(▲)(▼) : Select whether you perform maintenance or not.

(▲)(▼)

```
MAINTENANCE
AIR PG           [ENT]
```
(ENTER)
```
PREPARE AIR PG
COMPLETED        [ENT]
```
(ENTER)
```
AIR PG
START            [ENT]
```
(ENTER)

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```
TYPE
:NORMAL
```
NORMAL / SOFT / HARD

```
 ** ADJUSTING **
    PLEASE WAIT
```
(ENTER)
```
PRESSURE
=0.00kPa      (0.00)
```
(ENTER)
```
    PLEASE WAIT
```

```
  ** FILL UP **
    PLEASE WAIT
```
(ENTER)
```
   ** CLEANING **
    PLEASE WAIT
```

(▶)

```
AIR PG
COMPLETED      [ENT]
```
(ENTER)
```
AIR PG
END <        > RETRY
```
(◀)
```
   ** CLEANING **
    PLEASE WAIT
```

```
                  MACHINE SET
```

MACHINE SETUP
AUTO Power -off[ENT] —(ENTER)→ `AUTO Power -off` / `=          30min`
  none/ 10 to 600min

▲ ▼

MACHINE SETUP
Feeding/TakeUp [ENT] —(ENTER)→ `FEED.` / `:OFF` —(ENTER)→ `ROLL` / `:OFF`
  OFF/ON   OFF/ON

▲ ▼

MACHINE SETUP
MEDIA REMAIN [ENT] —(ENTER)→ `MEDIA REMAIN` / `:OFF`
  ON / OFF

▲ ▼

MACHINE SETUP
TIME SET [ENT] —(ENTER)→ `TIME SET` / `2011.10.05 21:36:00`

▲ ▼

MACHINE SETUP
UNIT [ENT] —(ENTER)→ `TEMP.` / `:°C` —(ENTER)→ `LENGTH` / `:mm`
  °C / °F   mm / inch

▲ ▼

MACHINE SETUP
KEY BUZZER [ENT] —(ENTER)→ `KEY BUZZER` / `:ON`
  ON / OFF

▲ ▼

MACHINE SETUP
HEAD SELECT [ENT] —(ENTER)→ `HEAD SELECT` / `:ALL`
  ALL / HEAD line1/HEAD line2/ HEAD line3/
  HEAD line1&2/HEAD line2&3

▲ ▼

MACHINE SETUP
MEDIA DETECT [ENT] —(ENTER)→ `THICKNESS DETECT` / `:AUTO`
  AUTO/ MANUAL

▲ ▼

MACHINE SETUP
DRYING FEED [ENT] —(ENTER)→ `DRYING FEED` / `=          300mm` —(ENTER)→ `BACKWARD FEED` / `:ON`
  OFF/100 to 1000mm   ON/OFF

▲ ▼

MACHINE SETUP
View Feed [ENT] —(ENTER)→ `View Feed` / `:ON` —(ENTER)→ `BACKWARD FEED` / `:ON`
  ON/OFF   ON/OFF

▲ ▼

MACHINE SETUP
SPACE BTWN PP. [ENT] —(ENTER)→ `SPACE BTWN PP.` / `=          OFF`
  OFF / 10 to 500mm

▲ ▼

MACHINE SETUP
Space Feed Mode[ENT] —(ENTER)→ `Space Feed Mode` / `=     INTERMITTENT`
  OIINTERMITTENT / CONTINUOUS

▲ ▼

To P.6-24

Appendix

6

```
MACHINE SETUP
NETWORK & MAIL [ENT]
```
(ENTER)
```
NETWORK & MAIL
NETWORK        [ENT]
```
(ENTER)
```
NETWORK
Check IP Addr. [ENT]
```
(ENTER)

```
NETWORK
Check MAC Addr.[ENT]
```
(ENTER)

(▲)(▼)

```
NETWORK
DHCP           [ENT]
```
(ENTER)

(▲)(▼)

```
NETWORK
AutoIP         [ENT]
```
(ENTER)

Settable when [DHCP] and [AutoIP] are both OFF

(▲)(▼)

```
NETWORK
IP Address     [ENT]
```
(ENTER)

(▲)(▼)

(▲) (▼)

(▲)(▼)

```
NETWORK
Default Gateway[ENT]
```
(ENTER)

(▲)(▼)

```
NETWORK
DNS Address    [ENT]
```
(ENTER)

(▲)(▼)

```
NETWORK
SubNet Mask    [ENT]
```
(ENTER)

```
NETWORK & MAIL
EVENT MAIL     [ENT]
```
(ENTER)
```
EVENT MAIL
Mail Delivery  [ENT]
```
(ENTER)

(▲)(▼)

```
EVENT MAIL
Select Event   [ENT]
```
(ENTER)

(▲) (▼)   (▲) (▼)

```
Check IP Address
  10. 16.168.235
```

```
Check MAC Address
00:0d:1b:00:00:00
```

```
DHCP
:ON
```

```
AutoIP
:ON
```
ON, OFF

```
IP Address
  0.  0.  0.  0.
```

```
Default Gateway
  0.  0.  0.  0.
```

```
DNS Address
  0.  0.  0.  0.
```

```
SubNet Mask
:24
```

```
Mail Delivery
:OFF
```
ON, OFF

```
Print Start Event
:OFF
```
ON, OFF
(ENTER)
```
Print End Event
:OFF
```
ON, OFF
(ENTER)
```
Error Event
:OFF
```
ON, OFF
(ENTER)

```
Warning Event
:OFF
```
ON, OFF
(ENTER)
```
Other Event
:OFF
```
ON, OFF

Appendix

6

```
EVENT MAIL
Mail Address    [ENT]
```
ENTER

▲▼

```
EVENT MAIL
Massage Subject[ENT]
```
ENTER

▲▼

```
EVENT MAIL
Server Setup    [ENT]
```
ENTER

▲▼   ▲▼   ▲▼

```
EVENT MAIL
Transmit Test   [ENT]
```
ENTER

```
NETWORK & MAIL
SETTING LOCK    [ENT]
```
ENTER
```
SETTING LOCK
LOCK            :0000
```

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```
Mail Address
```

```
Massage Subject
TS500_01
```

```
SERVER SETUP          SMTP Address
SMTP Address    [ENT]
```
△▽
```
SERVER SETUP          SMTP Port No.
SMTP Port No.   [ENT]  :    25
```
△▽
```
SERVER SETUP          SENDER ADDRESS
SENDER ADDRESS [ENT]
```
△▽
```
SERVER SETUP          Authentication
Authentication [ENT]  :OFF
```
OFF, POP before SMTP,
SMTP Authentication

```
SERVER SETUP          User Name
User Name      [ENT]
```
△▽
```
SERVER SETUP          Pass Word
Pass Word      [ENT]  ******************
```

When [Authentication] is [POP before SMTP] [SMTP Authentication], it is displayed.

△▽
```
SERVER SETUP          POP3 Address
POP3 Address   [ENT]
```
△▽
```
SERVER SETUP          APOP
APOP           [ENT]  :ON
```
ON, OFF

[Only when [Authentication] is [POP before SMTP], it is displayed.

```
Transmit Test
EXECUTE        [ENT]
```
The sent result is displayed.

Appendix

6

```
MACHINE  SETUP
LANGUAGE        [ENT]
```
(ENTER)
```
LANGUAGE
:English
```
English / ニホンゴ / Deutsch / Français /
Español / Italiano / Português

(▲) (▼)

```
MACHINE  SETUP
RESET           [ENT]
```
(ENTER)
```
RESET  ALL  SETTING
OK?             [ENT]
```
(ENTER)
```
RESET
EXECUTE         [ENT]
```
(ENTER)
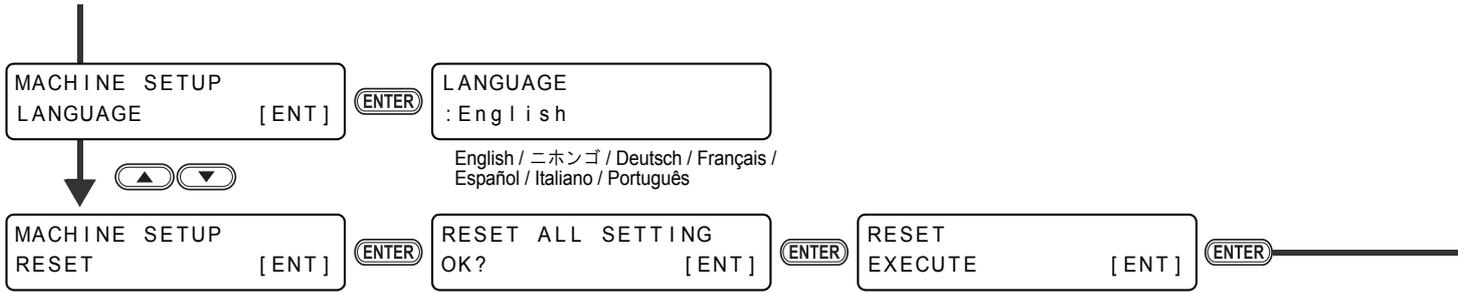
Settings are initialized

TS500-1800 Operation Manual

Sep 2016

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

Mimaki™