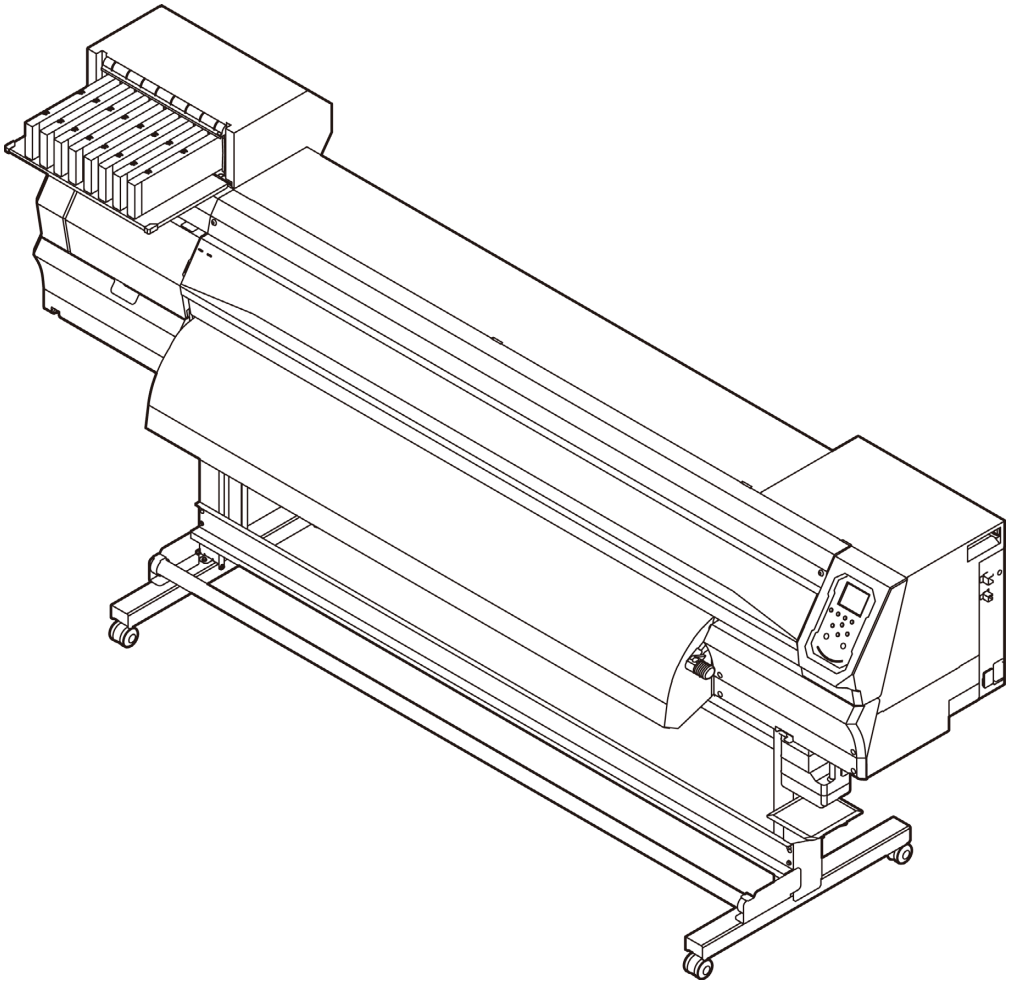
Operation Manual

COLOR INKJET PRINTER

JV300-130/160 A
JV300-130/160 A Plus

Operation Manual



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MIMAKI ENGINEERING CO., LTD.

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D202740-34

Original instructions

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Foreword

Congratulations on your purchase of MIMAKI color ink jet printer “JV300-130/160 A”, “JV300-130/160 A Plus” (called as this machine hereafter).

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 manual is describing the operations and maintenance of this machine.
- The illustrations used in this manual may vary depending on the machine.
- This 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.
- The contents of this Operation Manual are subject to change for improvement without notice.
- You can also download the latest manual from our website.

FCC Statement (USA)

This machine 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 printer is operated in a commercial environment. this machine 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 machine in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.
The limits stipulated by FCC rules might be exceeded if Mimaki-recommended cable is not used for connections of this machine.
To prevent this, use of Mimaki-recommended cable is essential for connecting this machine.

Interference to televisions and radios

The printer described in this manual generates high frequency when operating.
This machine can interfere with the reception of radios and televisions if set up or used under improper conditions.
This machine is not guaranteed against any damage to specific-purpose radios and televisions.
If you feel that this machine might be causing reception interference with your radio or television, check by turning this machine's power switch on and off. If the reception interference disappears when the printer's power is turned off, it is likely that this machine is the cause of the interference.
If this is the case, try to eliminate it by performing any or a combination of the following procedures.

- Change the direction of the receiving antenna of your radio/television until there is no reception interference.
- Move the receiver away from the product.
- Plug the power cord of this machine into an outlet which is isolated from power circuits connected to the television set or radio.

About usable ink

You can use aqueous sublimation dye ink (Sb53/Sb54) for this machine.

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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	
	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.
	Failure to observe the instructions given with this symbol can result in injuries to personnel or damage to property.
	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 the action shown is prohibited. A sign representing a prohibited action (the sign shown at left prohibits disassembly) is shown in or around the circle.
	The symbol " ● " indicates that the action shown must be taken without fail or the instructions must be observed without fail. A sign representing a particular instruction (the sign shown at left instructs to unplug the cable from the wall outlet) is shown in the circle.

Warning for Use

⚠WARNING

- The set of power cables provided with this machine is for use with this machine only. It cannot be used with other electrical devices. Do not use any power cables other than the ones provided with the machine. It may cause a fire or electric shock.
- Do not 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 may be damaged, resulting in fire or electric shocks.
- Avoid use in humid places. Also, do not pour water on the unit. It may cause a fire, electric shock, or malfunction.
- Use of the machine under an abnormal condition where it produces smoke or strange smell can result in fire or electric shocks. Be sure to turn off the power switch immediately and unplug the cable from the power outlet. Check first that the machine no longer produces smoke, and then contact your distributor or our sales office for repair.
- Never disassemble or modify your machine or ink cartridge by yourself. It may cause an electric shock or malfunction.
- Do not use extension cables. It may cause a fire or electric shock.
- Keep the power plug prong clear of any foreign object such as a piece of metal. It may cause a fire or electric shock.
- Do not use multi-outlet extension. It may cause a fire or electric shock.
- If the power cable is damaged or the core wire is exposed or broken, ask your service representative to replace it. Using it as it is may cause a fire or electric shock.
- Do not handle the power plug with wet hands. It may cause an electric shock.
- Grasp by holding the plug itself when removing the power plug from power outlet. Do not pull the power cable. The cable may be damaged, resulting in a fire or electric shock.
- Do not use a voltage other than the displayed. It may cause a fire or electric shock.
- Do not use a power frequency other than the indicated. It may cause a fire or electric shock.
- If a foreign object such as metal, water, or liquid enters this machine, turn it off immediately. After that, be sure to remove the power plug from the outlet and contact your service representative. Using it as it is may cause a fire or electric shock.
- If ink leaks, turn off the main power switch, disconnect the power plug, and contact your local distributor, our sales office, or call center.

- Do not use a flammable spray or solvent inside or around the machine. It may cause a fire or electric shock due to ignition.
- Do not place containers or small metal objects containing vases, flower pots, cups, cosmetics, medicines, water, etc. on or near the machine. If it spills or gets inside, it may cause a fire or electric shock.

⚠WARNING

- Keep children away from this machine.

Precautions in Use

⚠CAUTION

Handling of the power cable

- Connect to a socket-outlet with determinate polarity.
- For Inlet 1 and 2, be sure to supply power from the outlet of the same voltage.
- Be sure to connect it to a power outlet near the machine so that it can be easily removed.
- Unplug the cable from the power outlet and clean the blade of the plug and the surrounding area, at least once a year. If dust accumulates, it may cause a fire.
- Do not use a voltage other than the displayed.
- Check the voltage of the power outlet and the capacity of the circuit breaker before you plug the power cable. Plug each power cable to different outlet that has independent circuit breaker. If you plug more than one power cable to power outlets that share the same circuit breaker, the power may be cut off by the breaker.

Power supply

- Leave the breaker turned ON at all times.
- Do not turn off the main power switch on the right side.

Note on maintenance

- Pay close attention to ventilation and be sure to wear the included safety glasses and gloves provided, and the filtering face mask, when handling ink, maintenance cleaning solution, waste ink, or other solutions used in this machine. Failure to do so may result in ink or other liquids splashing and coming into contact with the skin, eyes, or mouth.
- Gloves are consumables. Use a commercial product when the attached gloves are used up.

Be careful with the movable parts

- Keep fingers and other parts of the body away from dangerous moving parts.
- Do not touch the rolling grit roller; otherwise, you may hurt your fingers or tear off your finger nails.
- Keep your head and hands away from any moving parts during cutting operation; otherwise, you may get your hair caught in the machine or get injuries.
- Wear proper clothes. (Do not wear loose-fit clothes or accessories). Bind a long hair.

⚠CAUTION

Notes When Handling the Main Unit

- Do not use in poorly ventilated or sealed rooms.
- Provide sufficient ventilation when using.
- Contact your service representative for cleaning inside the unit. If dust is accumulated inside the projector and it is not cleaned for a long time, it may cause a fire or malfunction.

Caution with cutters

- Do not touch the cutter blade, which is very sharp.
- 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.

Handling of ink

- There are precautionary notes on ink on the ink cartridge. Read it carefully and fully understand it before using it.
- Before using ink and cleaning solution, be sure to read the Safety Data Sheet (SDS).
- Keep ink away from fire. Also, be sure that the room is well ventilated when using or handling ink.
- Immediately wipe off any ink, maintenance washing liquid, waste ink, or other liquid used with the product that contacts your skin. Wash using soap and rinse with plenty of water. Failure to wash off liquid may result in skin inflammation. If your skin becomes irritated or painful, seek medical attention immediately.
- If ink, maintenance washing liquid, waste ink, or any other liquid used in the product comes into contact with your eyes, rinse immediately with plenty of clean water. Rinse for at least 15 minutes. If you wear contact lenses and they can be easily removed, remove after rinsing for at least 15 minutes with clean water. Be sure to rinse the undersides of your eyelids. Failure to rinse off liquid may result in blindness or impaired vision. If your eyes become irritated or painful, seek medical attention immediately.
- If ink, maintenance washing liquid, waste ink, or any other liquid used in the product enters your mouth or is swallowed, gargle with water immediately. Do not induce vomiting. Seek medical attention promptly. Inducing vomiting may cause liquid to enter the airway.
- If a large amount of vapor is inhaled, move to a well-ventilated area, keep warm, and rest in a posture that allows easy breathing. If the condition does not improve, seek medical attention promptly.

Notes on handling media

- When setting the roll media, set it by two or more people. The weight of the roll media may hurt your back.
- When changing media, be careful not to get your fingers caught or injured.
- There is a media cutter inside the machine. When replacing or replenishing media or removing a media jam, do not touch anything other than the locations specified in this manual. It may cause injury.

CAUTIONS and NOTES

⚠WARNING

Clump lever

- Do not raise the clamp lever during printing. Printing will end.

Periodic replacement parts

- Some parts of this machine must be replaced with a new one regularly. In order to use the machine for a long time, be sure to subscribe to an annual maintenance contract.

Notes on maintenance

- Use in a room with as little dust as possible.
- Dust can also cause ink drops to fall from the head to the media during printing. In this case, clean around the head.
- Clean the capping station and wiper frequently(removal of dust and paper powder).
- Keep the front cover closed even when not printing. Dust may accumulate on the head nozzles.

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. Dust will adhere on the media.

Handling of ink cartridges

- Safety is evaluated by our recommended ink. Please use our recommended ink for safe use.
- If the ink cartridge 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 cartridge just before installation. If the ink is left open for a long time, normal printing performance may not be ensured.
- Make sure to store ink cartridges in a cool and dark place.
- Keep ink cartridges and waste ink tank out of reach of children.
- Be sure to thoroughly consume the ink cartridge within 3 months after opening it. If it has passed for a long time after opening, the print quality would be poor.
- When you no longer need ink cartridges, ink packs, and waste ink, please hand them over to your distributor or service representative. If you dispose them by yourself, please followthe regulations stipulated by the industrial waste disposer or the local regulations of each country.
- Do not hit the ink cartridge strongly or shake it violently. Ink may leak from the cartridge.
- Do not refill ink in the ink pack or ink cartridge. We are not responsible for any problems caused by using refilled ink.
- Do not touch or stain the contact area of the ink cartridge PCB. It may cause a PCB failure.

Disposition of this machine

- Consult your sales or service representative for proper disposal of this machine. Otherwise, commission an industrial waste disposal company.

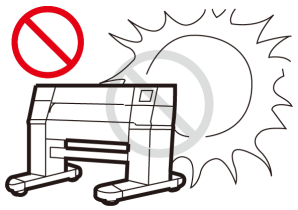
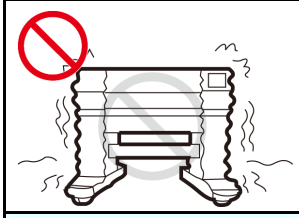
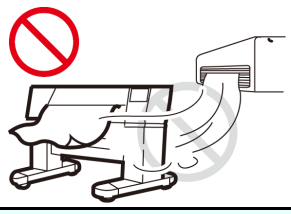
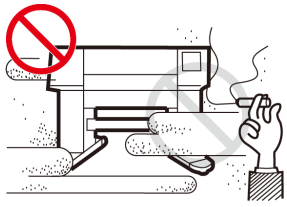
⚠WARNING

Handling of media

- Use recommended media.
  Use our recommended media to print with stable and high image quality.
- Pay attention to the expansion and contraction of the media.
  Do not use media that has just been opened. The media may expand and contract depending on the room temperature and humidity. Open the package and expose it to the place of use for at least 30 minutes before attaching it to the unit.
- Do not use curled media.
  In addition to causing media jams, it also affects the image quality.
  Also, use media with tight curls after removing the curls. 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 media.
  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.

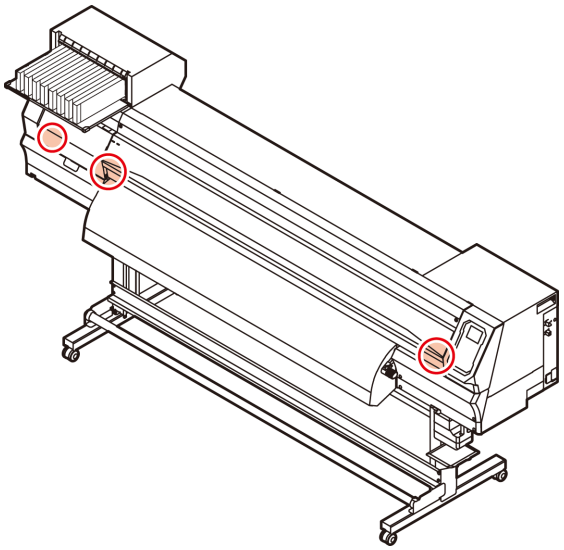
Cautions on Installation

⚠CAUTION

A place exposed to direct sunlight	On an inclined surface
	
A place that vibrates	**A place exposed to direct air flow from an air conditioner or the like.**
	
A place where temperature or humidity varies significantly	**Around a place where fire is used**
• Use the machine under the following environmental conditions: • Operating environment: 20 to 30 °C (68 to 86 °F) 35 to 65 % (Rh)	

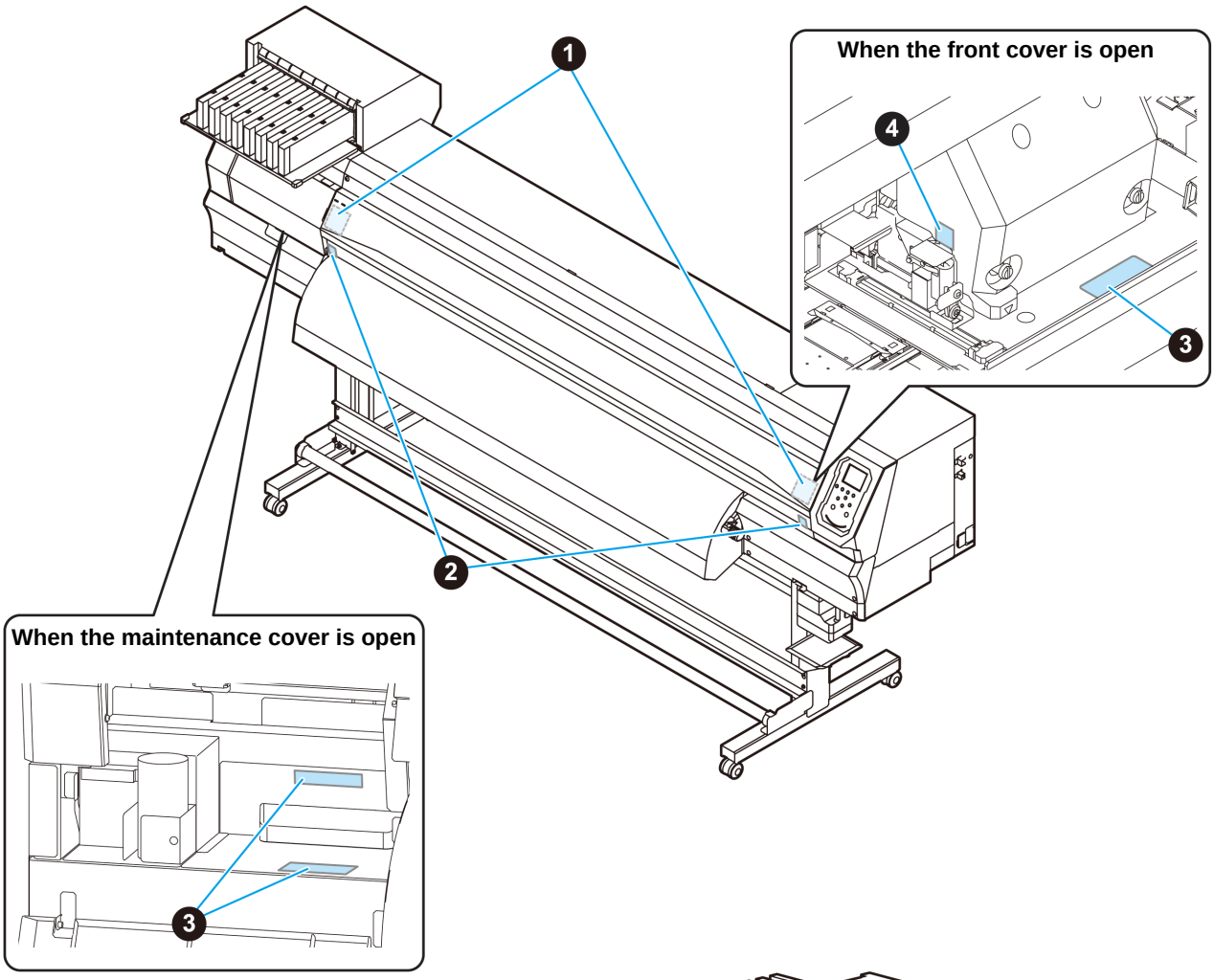
Safety interlock

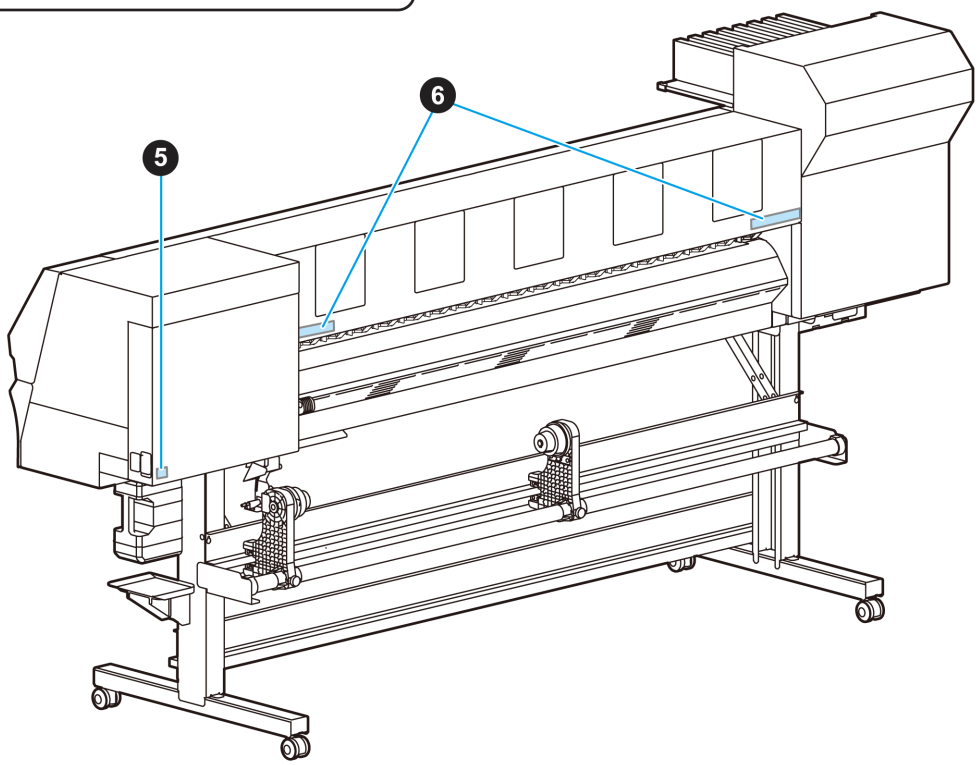
This machine is equipped with interlocks to terminate the operation for your safety when the cover opens during printing etc. (red circle parts in the figure below).



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.





No.	Reorder	Label
1	M910931	
2	M907833	
3	M903330	
4	M903405	
5	M907935	
6	M905811	

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.

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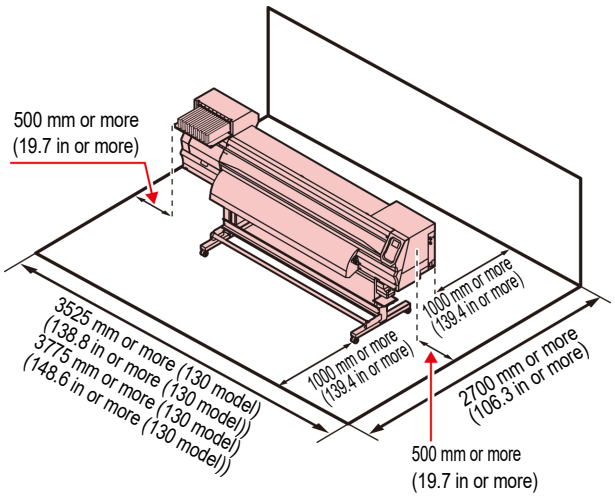
Moving This Machine

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
JV300-130 A JV300-130 A Plus	2525mm (99.4in)	700mm (27.6in)	1392mm (54.8in)	170kg (374.8lb)
JV300-160 A JV300-160 A Plus	2775mm (109.3in)	700mm (27.6in)	1392mm (54.8in)	200kg (440.9lb)



Working Environmental Temperature

Use this machine in an environment of 20 to 30°C to ensure reliable printing.

Moving This Machine

Move this machine according to the following steps when this machine needs to be moved on the same step-free floor.

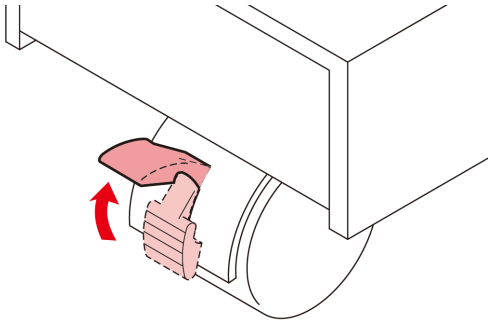
Important!

- 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.

Caution

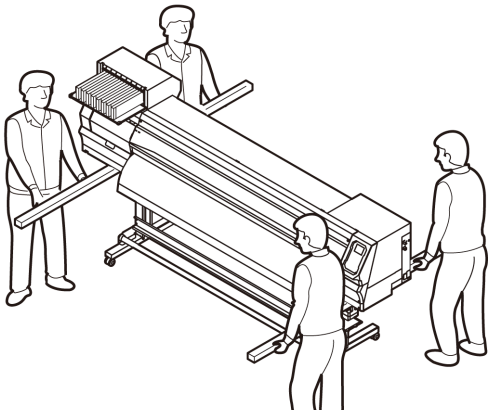
- When moving this machine, take care that it does not receive a significant impact.
- Be sure to lock the casters after moving of this machine.

1 **Release the lock of caster.**

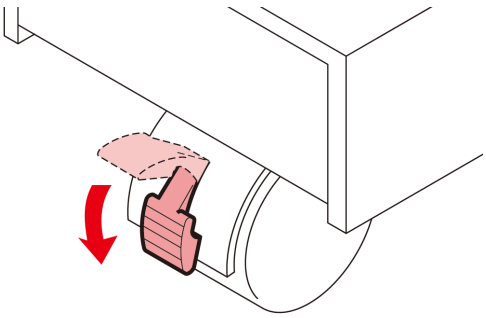


2 **Move this machine as shown in the figure.**

- For safety, be sure to operate it with 4 people or more.
- Do not push the cover to move this machine since the cover may be broken.



3 **Lock the caster.**



Names of Parts and Functions

Front Side of the Machine

Maintenance cover (upper)

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

Ink cartridges
Each cartridge contains an ink of a particular color.

Cartridge protection cover
This prevents an injury or breakage of the machine due to a protrusion of the ink cartridge. (It is located under the ink cartridge.)

Front cover

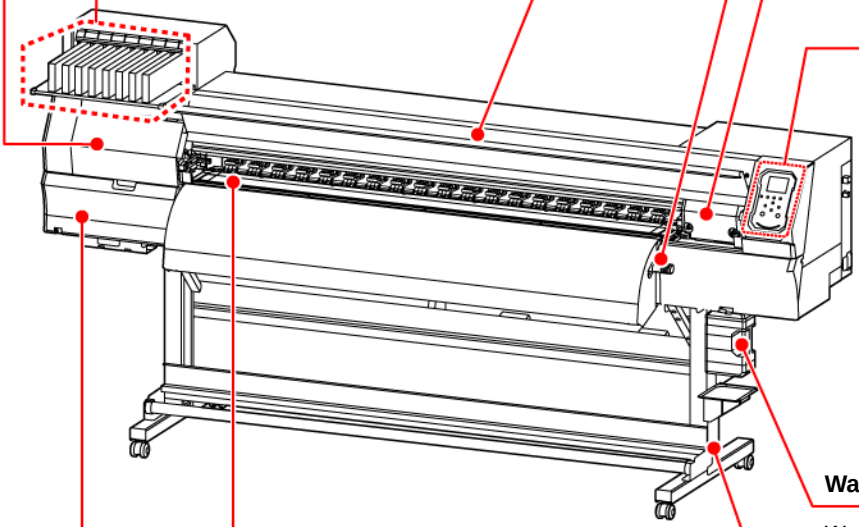
Open the cover in setting of medias, taking of measures against jamming of medias or in maintenance inside the station.
Even when the power switch is off, keep this cover and the other covers closed.

Clamp lever (front)

Moves the pinch rollers up and down to hold or release the media.

Carriage

Move the print head unit from side to side.



Operation panel

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

Waste ink tank

Waste ink gathers in this tank.

Stand

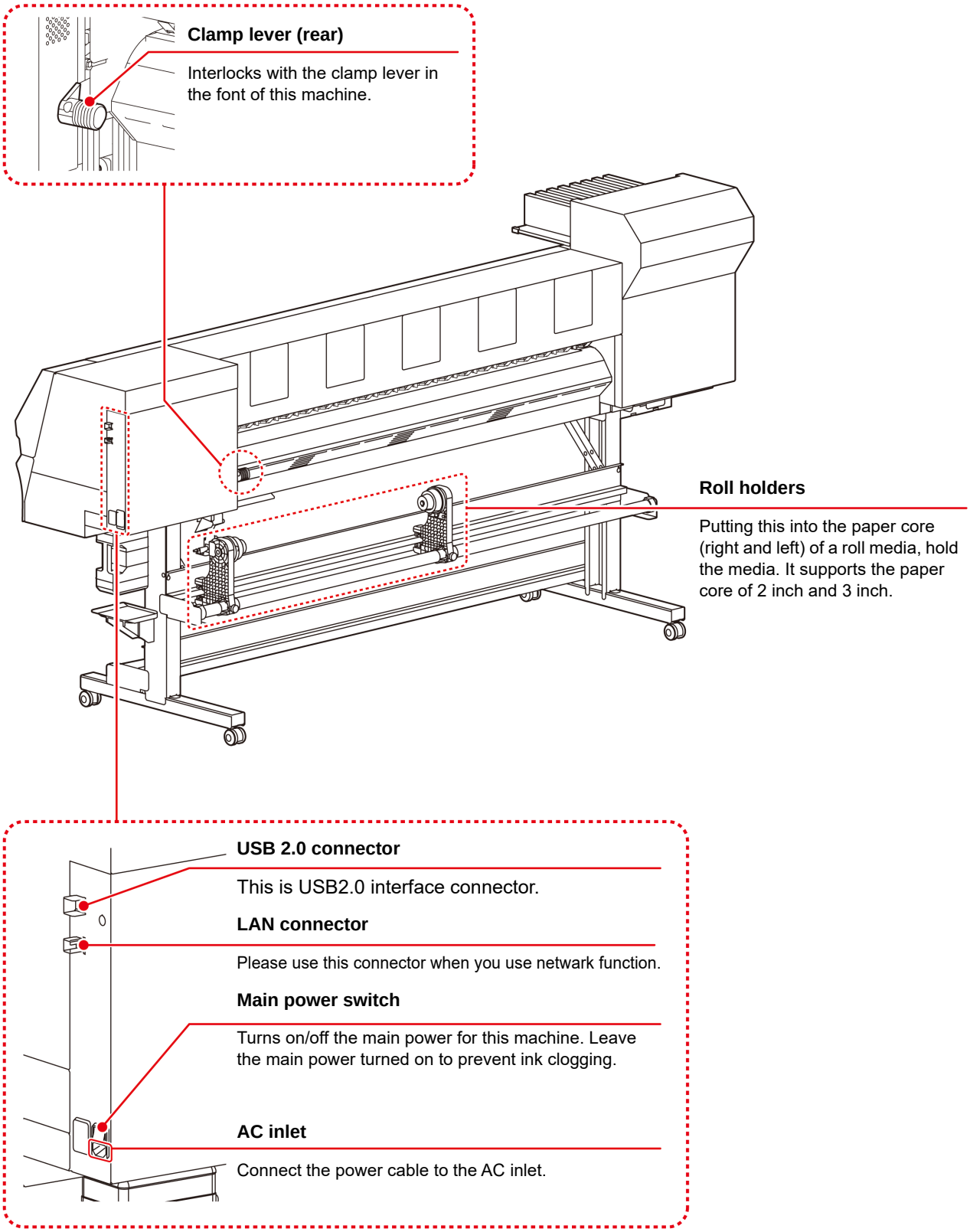
Supports the main body of the machine. It is provided with casters that are used to move this machine.

Platen
Print area.

Maintenance cover (lower)

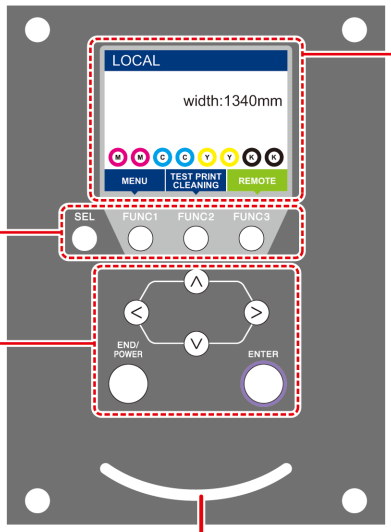
Open the cover in maintenance.
Even when the power switch is off, keep all covers closed.

Rear Side and Right Side of the Machine



Operation Panel

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



SEL key

Changes over the functions of the function keys ([FUNC1]–[FUNC3]).

FUNC1 / FUNC2 / FUNC3 key

Press this to set various functions or to do test printing. The function keys' functions are changed each time [SEL] key is pressed.

Display

Displays the following items:

- Printer status
- Set media width
- Ink status *1
- Functions assigned to [FUNC1] to [FUNC3] *2

JOG key

Use these keys to shift the carriage or the media in [LOCAL]. Also use them to select an item of printing conditions.

END/POWER key

Cancels the last input value or returns the setting menu to the immediate higher level of the hierarchy. Also, press this to turn the power on or off. (Give it a long press to turn the power off.)

ENTER key

Registers the last input value as the setting value or goes to the immediate lower level of the hierarchy.

Status indicator lamp

Indicates the machine's status (printing, error occurred, etc).

Condition of Lamp	Condition of machine
OFF	Machine is in LOCAL mode, no print data has been received, and no errors have occurred.
Lit steady Light blue	Switched to REMOTE mode.
Flashing Light blue	Currently printing.
	In test printing: printing a pattern stored inside the machine.
Lit steady blue	Print data still remains in the machine.
Flashing red	Error has occurred.
Lit steady red	Error (SYSTEM HALT) has occurred.

- The power switch under the operation panel lights in blue when the power is turned on, and off when the power switch is turned off. The ink clogging prevention function is periodically operated even when the power switch is OFF if the main power switch keeps being ON. (Auto maintenance function) P.1-4

*1 : Ink Status

Ink status (e.g., remaining ink levels) and ink errors are indicated by icons.

Icon	Details
M	The ink remaining levels will be indicated with the nine types of the following icons.

Ink full	Approx. 1/8 used	Approx. 1/4 used	Approx. 3/8 used	Approx. 1/2 used	Approx. 5/8 used	Approx. 3/4 used	Approx. 7/8 used	Near end

Icon	Details
M	Displayed when ink near end. The remaining ink is little, so provide new ink.
	Displayed when ink end or ink error occurs. The printing cannot be performed.
!	Displayed when the ink expiration date expires. Replace with new ink or use it up as soon as possible. It is possible to print.

*2 : Functions assigned to [FUNC1] to [FUNC3]

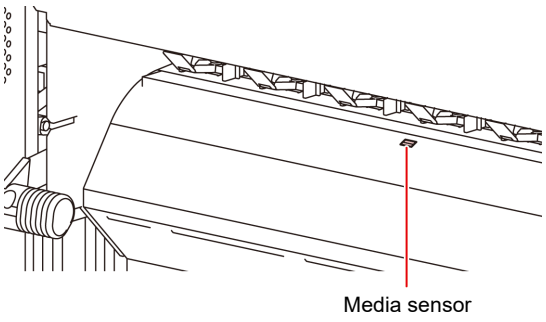
Contents of functions assigned to [FUNC1] to [FUNC3] are described below.

Icon	Contents
MENU	Displays “MENU” for setting functions.
TEST PRINT CLEANING	Displays maintenance functions such as test print, cleaning, etc.
REMOTE	Shifts to REMOTE from LOCAL and starts printing.
ADJUST	Displays adjustment functions such as FEED COMP, DROP.POScorrect, etc.
DATA CLEAR	Executes data clear.
LOCAL	Suspends printing in REMOTE and shifts to LOCAL.
CUT	Executes media cut.
<<	When there are multiple items on the MENU screen or other screens, it moves to the previous page.
>>	When there are multiple items on the MENU screen or other screens, it moves to the next page.
OK	Used for completing confirmation when warning message has been displayed and so on.
OFF	Used for turning functions OFF or cancelling them.
↓	Some kind of setting or function is assigned. Operate according to the description of each function.
✓	Switches between enable/disable when selecting multiple items, for example, when selecting target head for cleaning and so on.

- The color of icons changes according to the state of the printer.
  When the icon is green : The printer is in REMOTE mode.
  When the icon is dark blue : The printer is in LOCAL mode.
  When the icon is yellow : A warning has been issued.
  When the icon is red : An erroe has been issued.

Media sensor

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

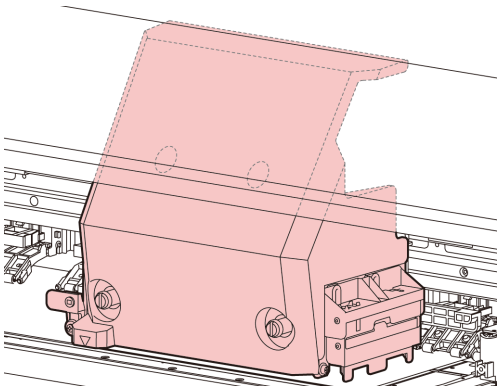


Important!

- 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.

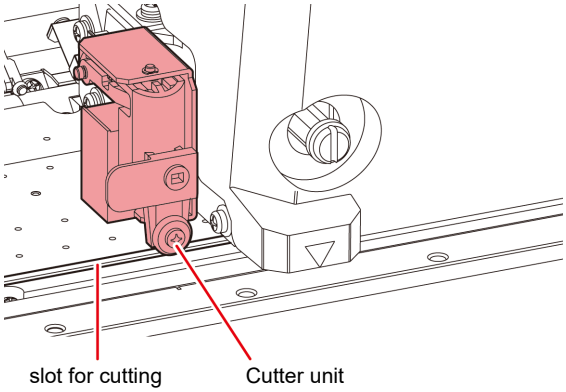
Carriage

The carriage is provided with the ink heads for printing, the cutter unit for cutting off the sheet of media, etc.
A lever is also provided to adjust the height of Head in 3 stages according to the thickness of media. (☞ P.2-4)



Cutter blade and slot for cutting

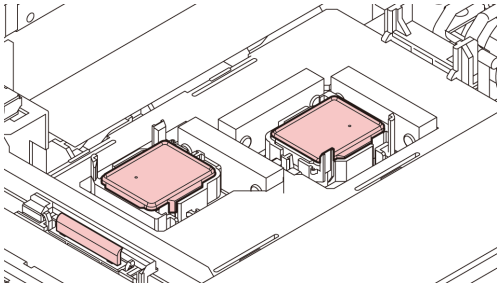
The carriage is provided with a cutter unit for cutting off the media that has been printed on.
The cutter cuts off the sheet of media along the slot for cutting on the platen.



Capping station

The capping station consists of the ink caps, the wiper for cleaning the heads, etc.
The ink caps prevent the nozzles in the ink 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.

- Be sure to wear the attached safety glasses in cleaning within the capping station to protect your eyes against ink. Otherwise, you may get ink in your eyes.

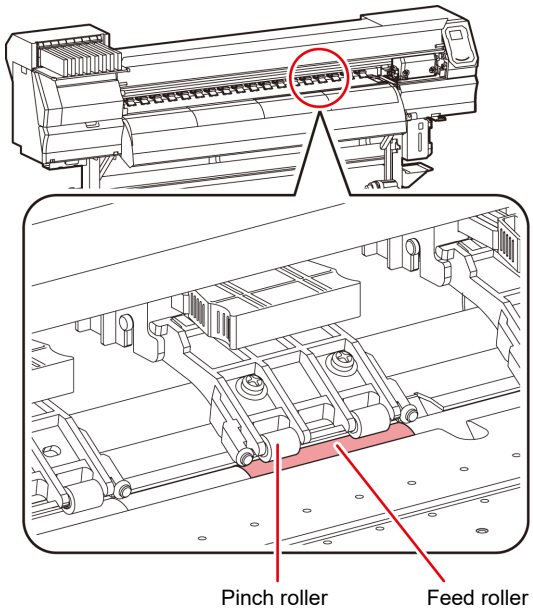


Pinch rollers and Feed rollers

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

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.



Connecting Cables

Connecting the LAN cable

When connecting LAN cable, be sure to follow the note below:

Important!
- Surely insert LAN cable until clicking noise sounds.
- Do not plug in or unplug any cable during data transferring.

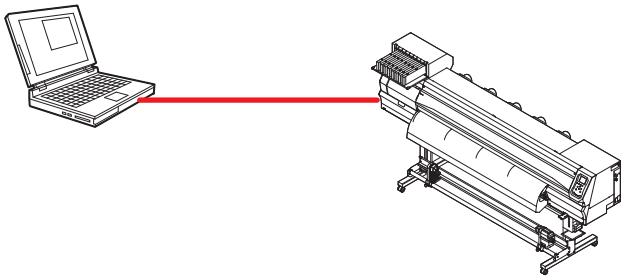
Printing Via a Network

● Applicable model: Plus series

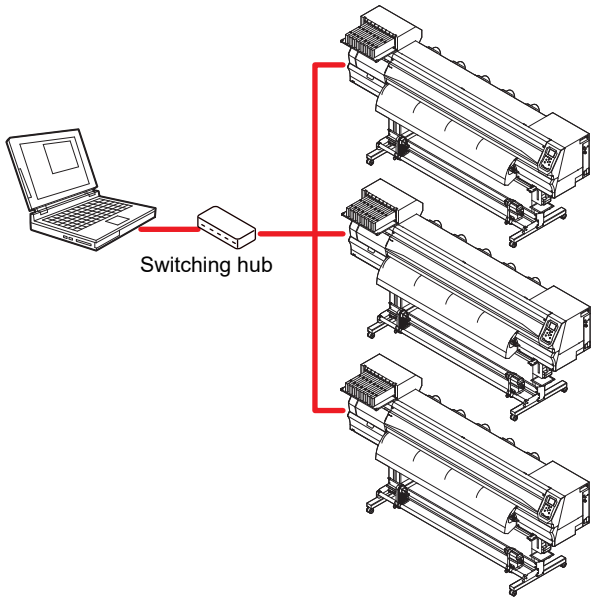
If printing via a network, you need to configure your network with the following environment.
If you configure it with an inappropriate environment, it could cause printing to stop.
- Use LAN cables that are category 6 or higher.
- Use a switching hub and PC that support 1000BASE-T.

Important!
- Set the PC sending the print data and the printer to the same network.
- You cannot connect via a router.

● If connecting directly to the printer



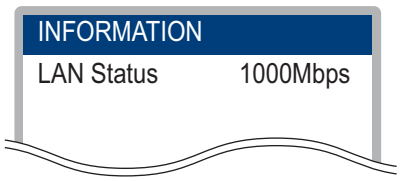
● If connecting via a switching hub



If the PC or device connected to the printer is not 1000BASE-T, you cannot perform printing.
After connecting, check the following.

(1) Check the printer screen display.
- On the local screen or the media detection screen, press the [Enter] key several times to display the information screen.
- Check that "1000 Mbps" is displayed for the LAN status item.

- If "100 Mbps", "10 Mbps", or "No connect" is displayed, you cannot print using the LAN.
- If "100 Mbps" or "10 Mbps" is displayed, you can use event mail (Chapter 3 “Enable the event mail function”).

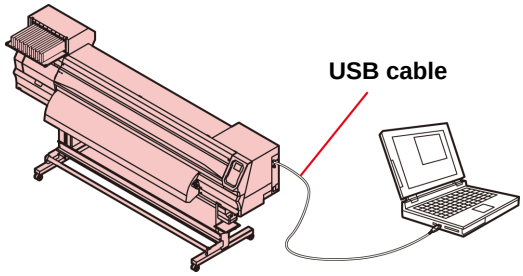


(2) Check the green light of the LAN connector.
- After turning on the machine, the lamp for the LAN connector will light up as follows.

Color	State	Condition
Green	Lighting	Connected with 1000 BASE-T
	OFF	Connected without 1000 BASE-T
Yellow	Lighting	Link-up
	Blinking	Receiving data
	OFF	Link-down

- If the yellow light only lights up, or is blinking, the status is not 1000 Mbps. Check the specifications of the PC, device, and cables.

Connecting USB2.0 Interface Cable



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

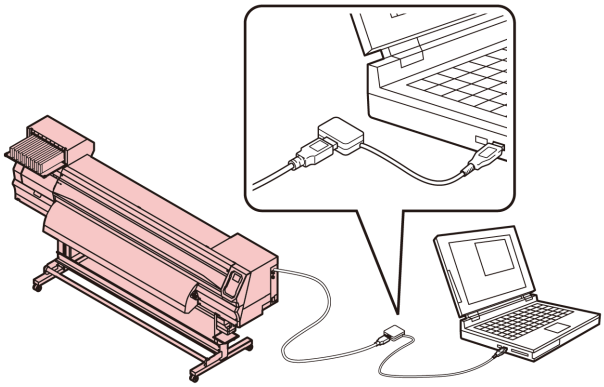
Caution
- Your RIP must be compatible with USB 2.0.
- Contact a RIP maker near your location or our office when the USB2.0 interface is not attached to the PC.

Notes on USB 2.0 Interface

Important! • Your RIP must be compatible with USB 2.0.

When two or more JV300 machines are connected to one personal computer

When two or more JV300 machines are connected to one personal computer, the personal computer may not recognize all the JV300 machines normally.
Reconnect the unrecognized JV300 machine to another USB port, if available, and check to see if it is recognized.If the JV300 machine is not recognized by the newly connected USB port, use USB 2.0 repeater cables available on the market.

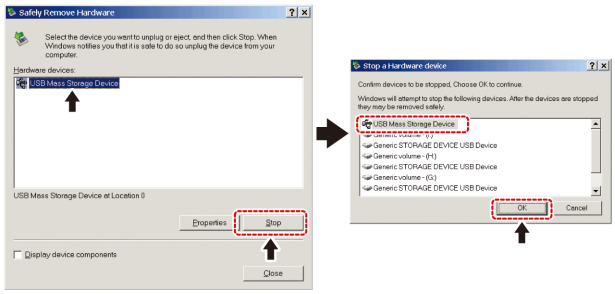


Notes on peripheral devices in USB high speed mode

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 JV300A machine is connected to, the USB device may not be recognized.
When JV300A is connected to the personal computer to which an external HDD is connected via USB, the speed of data output to JV300A may drop.That can cause the head unit to stop temporarily at the right or left end during printing.

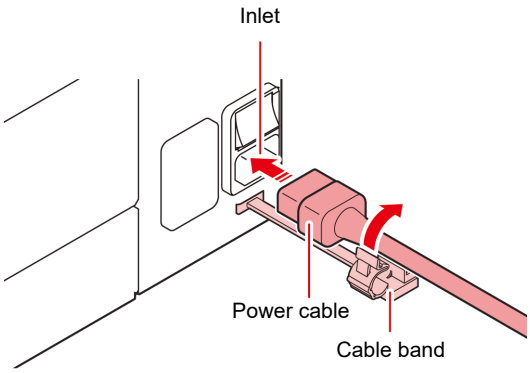
Removing USB memory

If a USB memory module is inserted in the personal computer to which a JV300A 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 10 COMMAND ERROR].
Copy the data onto the hard disk before outputting it for printing.



Connecting the power cable

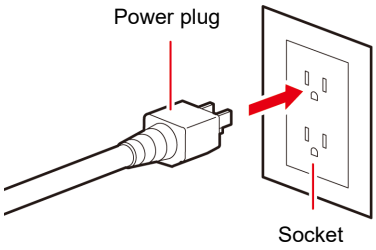
1 Insert the power cable into an inlet of the machine.



2 Secure a cable band.

• Secure the cable with the cable band attached to this machine.

3 Insert the power plug into a plug socket.



Warning • Do not use any power cables other than the attached power cable.

Important! • Be sure to connect the power cable to the outlet near this machine, and make sure that the power cable can be easily removed.
• Connect the power cable to the grounded outlet.Otherwise, it may result in fire or an electric shock.

Inserting ink cartridges

Caution in handling of ink cartridges

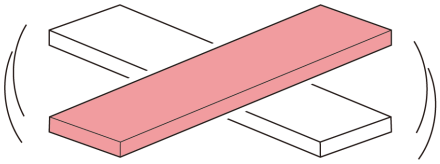
- There are precautionary notes on ink on the ink cartridge. Read it carefully and fully understand it before using it.
- Before using ink and cleaning solution, be sure to read the Safety Data Sheet (SDS).
- Keep ink away from fire. Also, be sure that the room is well ventilated when using or handling ink.
- Immediately wipe off any ink, maintenance washing liquid, waste ink, or other liquid used with the product that contacts your skin. Wash using soap and rinse with plenty of water. Failure to wash off liquid may result in skin inflammation. If your skin becomes irritated or painful, seek medical attention immediately.
- If ink, maintenance washing liquid, waste ink, or any other liquid used in the product comes into contact with your eyes, rinse immediately with plenty of clean water. Rinse for at least 15 minutes. If you wear contact lenses and they can be easily removed, remove after rinsing for at least 15 minutes with clean water. Be sure to rinse the undersides of your eyelids. Failure to rinse off liquid may result in blindness or impaired vision. If your eyes become irritated or painful, seek medical attention immediately.
- If ink, maintenance washing liquid, waste ink, or any other liquid used in the product enters your mouth or is swallowed, gargle with water immediately. Do not induce vomiting. Seek medical attention promptly. Inducing vomiting may cause liquid to enter the airway.
- If a large amount of vapor is inhaled, move to a well-ventilated area, keep warm, and rest in a posture that allows easy breathing. If the condition does not improve, seek medical attention promptly.
- Safety is evaluated by our recommended ink. Please use our recommended ink for safe use.
- If the ink cartridge 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 cartridge just before installation. If the ink is left open for a long time, normal printing performance may not be ensured.
- Make sure to store ink cartridges in a cool and dark place.
- Keep ink cartridges and waste ink tank out of reach of children.
- Be sure to thoroughly consume the ink cartridge within 3 months after opening it. If it has passed for a long time after opening, the print quality would be poor.
- When you no longer need ink cartridges, ink packs, and waste ink, please hand them over to your distributor or service representative. If you dispose them by yourself, please followthe regulations stipulated by the industrial waste disposer or the local regulations of each country.

- Do not hit the ink cartridge strongly or shake it violently. Ink may leak from the cartridge.
- Do not refill ink in the ink pack or ink cartridge. We are not responsible for any problems caused by using refilled ink.
- Do not touch or stain the contact area of the ink cartridge PCB. It may cause a PCB failure.

- Do not disassemble the ink cartridges.

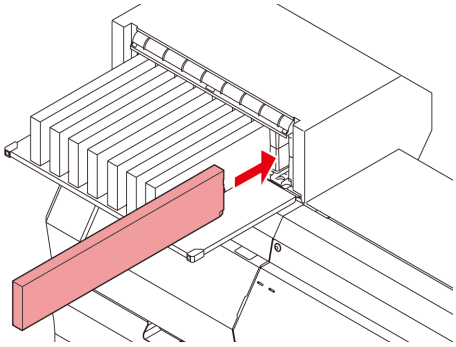
Inserting ink cartridges

1 **Shake the ink cartridge as shown on the right.**



- If you do not shake the ink periodically, the print quality may deteriorate rapidly. Shake about once a week.

2 **Insert the ink cartridge.**



- Insert the ink cartridge lengthwise with the surface having ink IC chip pointing to the left side.
- Colors are displayed on the display as follows. Black: K, Blue: B, Magenta: M, Yellow: Y, Light blue: b, Light magenta: m
- For ink cartridge setting order, refer to P.6-4 "Setting orders of ink cartridges".

Changing an ink cartridge

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

When [INK END] is displayed

(1) Pull out an ink cartridge to be replaced.
(2) Insert a new ink cartridge, paying attention to the direction of ink IC chip.

When [INK NEAR END] is displayed

There is a little of ink left. It is recommended to replace the ink cartridge soon since ink may become empty in printing while printing is continuously enabled.

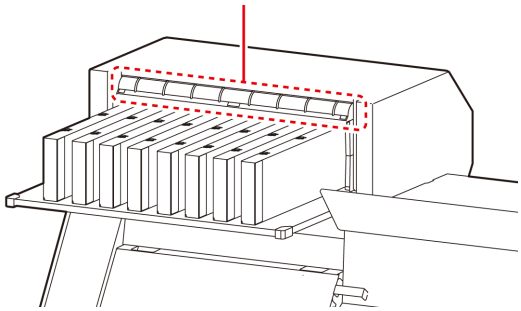
Important!

- During [INK NEAR END] is displayed, Auto cleaning does not operate.(☞ P.3-9)

For Ink cartridge lamps

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

Ink cartridge lamps



Condition of Lamp	Description
Lit to green	No error (ink is being supplied)
OFF	No error
Lit or blinks to yellow	One of the following errors occurs. • Ink near-end • Ink end • Expiration of a term of ink validity (one month)
Blinks to red	Expiration of a term of ink validity (two months)
Lit to red	One of the following errors occurs. • No ink left • No ink cartridge inserted • Other ink errors (☞ P.5-6)

Restrictions concerning the product

The ink expiration date is indicated on the Ink cartridge. Expired ink may cause printing defects or alter the color tone. Printing is possible even if the ink has passed its expiration date. Nevertheless, we recommend replacing with new ink or use up as quickly as possible.

Example: The expiration date is April.
May: Replace with new ink or use up as quickly as possible. Printing is possible.
June (Yellow lamp illuminated): Replace with new ink or use up as quickly as possible. Printing is possible.
July (Red lamp flashing): Printing is not possible.

- The message appears on the display.

Media

Usable media sizes and notes for handling are described.

Usable sizes of media

Model		JV300-130A	JV300-160A	JV300-130A Plus	JV300-160A Plus
Type of Recommended media		Photo-paper/ Synthetic paper/ Duplex paper			
Maximum width		1371mm	1620mm	1371mm	1620mm
Minimum width		210mm	210mm	210mm	210mm
Maximum printing width		1361mm	1610mm *1	1361mm	1610mm *1
Roll media	Thickness	1.0mm or less			
	Roll outside diameter	Φ250mm or less (paper media) Φ210mm or less (others)			
	Roll weight	40kg or less		45kg or less	
	Roll inside diameter	3 or 2 inches			
	Side printed	Side facing outward			

*1. When "MARGIN(RIGHT/LEFT)" in the Setup menu has been set to the minimum (-10 mm).

Caution in handling of medias

Pay attention to the followings for handling of medias.

Important!

- Use recommended media.
  Use our recommended media to print with stable and high image quality.
- Pay attention to the expansion and contraction of the media.
  Do not use media that has just been opened. The media may expand and contract depending on the room temperature and humidity. Open the package and expose it to the place of use for at least 30 minutes before attaching it to the unit.
- Do not use curled media.
  In addition to causing media jams, it also affects the image quality.
  Also, use media with tight curls after removing the curls. 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 media.
  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.
- Be careful to dusts on the edge face of the media.
  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.

Menu mode

This machine has 4 modes. Each menu mode is described below.

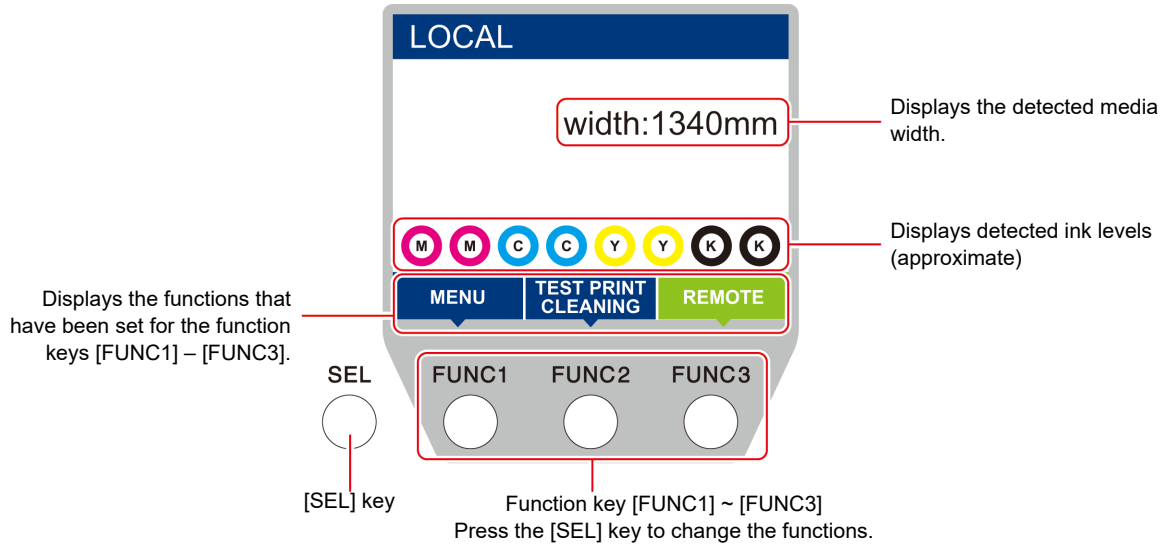
NOT-READY mode

This is the mode in which the media has not been detected yet.

LOCAL mode

Local mode is the mode for the drawing preparation state.
All the keys are effective.
The machine can receive data from the computer.However, it does not perform printing.

Screen display in Local mode



This mode permits the following operations:

- Pressing the JOG keys to set up a drawing origin and drawing area.
- Pressing the [ENTER] key to check the remaining amount of ink, the description of the cartridge error, the model name, the firmware version, and so on.

MENU mode

To set MENU mode, press the [FUNC1] key when this machine is in LOCAL mode.
In this mode, each function can be set.

REMOTE mode

This machine prints the data it receives.

Chapter 2
Basic Operations

This chapter

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

Workflow 2-2
Turning the Power ON/OFF 2-3
Turning the Power ON 2-3
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Setting a Media 2-4
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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.2-4).

3 Test Printing

Referring to “Test Printing” (☞ P.2-9).

4 Head Cleaning

Referring to “Head Cleaning” (☞ P.2-11).

5 Printing Data

Referring to “Printing Data” (☞ P.2-12).

Turning the Power ON/OFF

Turning the Power ON

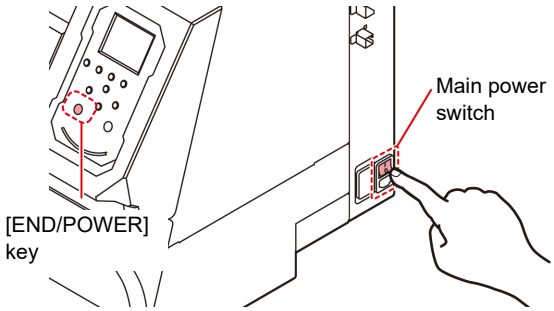
This machine is provided with the following two power switches:

Main power switch :
It is located on the side of this machine.Keep this switch ON all the time.

[END/POWER] key :
Normally, use this key to turn the power ON/OFF.
The nozzle clogging prevention function periodically operates even with the [END/POWER] key turned OFF when the main power switch is turned ON.

1 **Turn the main power switch ON.**

- Set the main power switch located on the side of this machine to the “I” side.



- The firmware version is displayed when the power is turned ON, and then the machine performs its initial operation.

2 **Turn the power on, by pressing the END/POWER key.**

- The machine enters LOCAL.

3 **Turn ON the power of the connected PC.**

Important!
- Turn the power ON after the front cover and maintenance cover are closed.
- The head nozzle may result in nozzle clogging if the main power switch is left OFF for a long time.

Turning the Power OFF

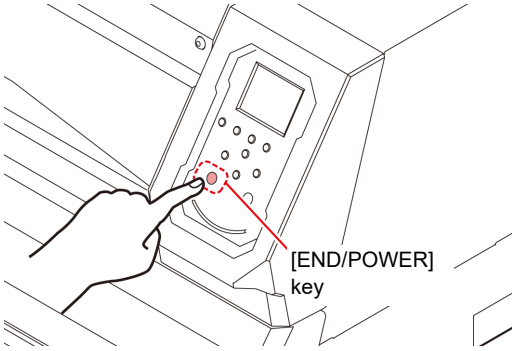
When having ended the operation of the machine, turn the power OFF by pressing the power switch located on the front side.
Check the following items when turning the power OFF.

- 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.5-7 “Error messages”)

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

2 **Turn the power off, by giving the END/POWER key a long press.**

- Do not turn OFF the main power switch located on the side of the machine.
- To use this machine again, press the [END/POWER] key .



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) operates.
  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 ink 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 switch OFF by pressing [END/POWER] key, 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 [END/POWER] key a long time 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.1-11 “Usable sizes of media”.

Important!

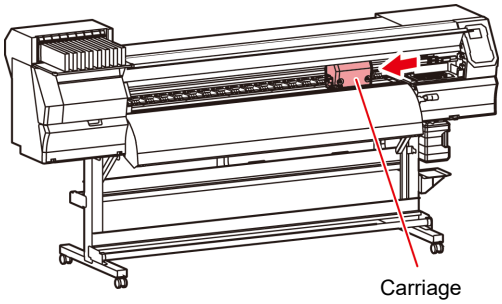
- Take care not to drop the media on your foot when setting the media.It may cause an injury due to the media.
- When setting a roll media, work by two or more people. Otherwise, you may hurt your back by the weight of the roll media.
- Adjust the head height prior to setting the media.If the head height is adjusted after the media is set, this may cause a media jamming, deterioration of the print quality or head damage.
- The range of the initial head height is adjustable by 2 levels according to the purpose of use.
- The range of the printing height of this machine is from L range (2 mm/3 mm) to H range (3 mm/4 mm). (Set to L range 2 mm at shipping)

Adjusting the Head Height

Adjust the head height according to the thickness of the media you use.

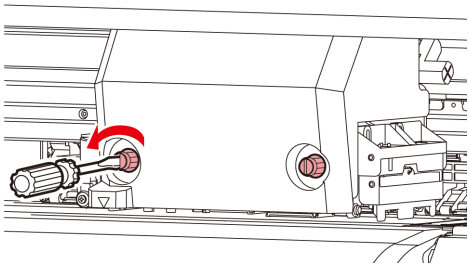
1 Move the carriage to the platen.

- When the machine is turned ON
  :Execute [ST.MAINTENANCE - CARRIAGE OUT] of the Maintenance functions.(☞ P.4-7 Step1,2)
- When the machine is turned off :
  Open the front cover, then move the carriage by hand.



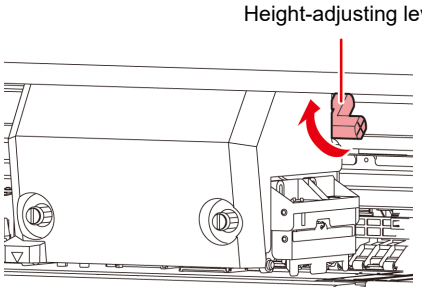
2 Loosen the screw in front.

- Loosen the screws, rotating each by one turn of a standard screwdriver.



3 Adjust the height-adjusting lever according to the media.

- Adjust the position of the lever, referring to P.2-4 “For the Adjusting Lever and the Range”.
- Set the height-adjusting lever to the highest stage or the lowest stage.Setting it to the intermediate height, a printing fault can result.

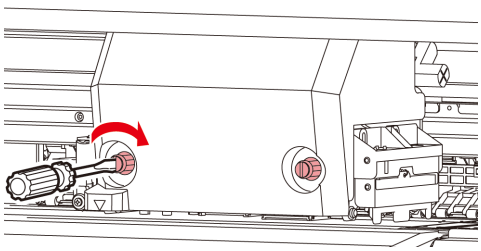


4 Fix the carriage.

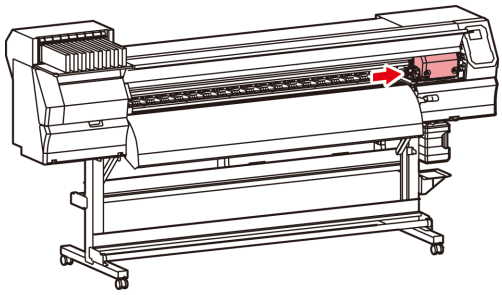
- Fasten the screw securely.

Important!

- Please do not press, and do not push up Height-adjusting lever up below when you tighten the screw when Height-adjusting lever is set to L range or H range.



5 Return the carriage to the station position.



For the Adjusting Lever and the Range

Range	Head height	Note
L range	2mm (The set position at shipping)	You can raise the base of the head height 1 to 2 mm higher. To do this, contact one of our sales representatives.
M range	2.5mm	
H range	3mm	

- Set the lever to "H range" when the media is prone to gather dust in the head or is often stained with ink traces.

Caution

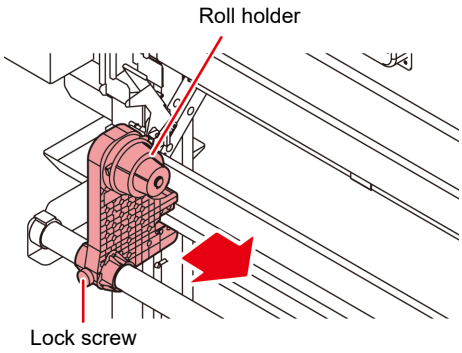
- When the ink is changed from dye ink to other aqueous ink, or on the contrary, after the machine is installed, the adjustment is required for the head initial height (H/L range). Consult with our sales office about it.

Setting a roll media

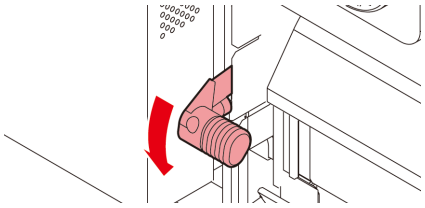
Set a roll media to the roll media hanger located on the back of this machine.

1 **Move the roll holder located in the back of the device to the direction of the middle of the device.**

- Loosen the roll holder fixing screw and then move it.

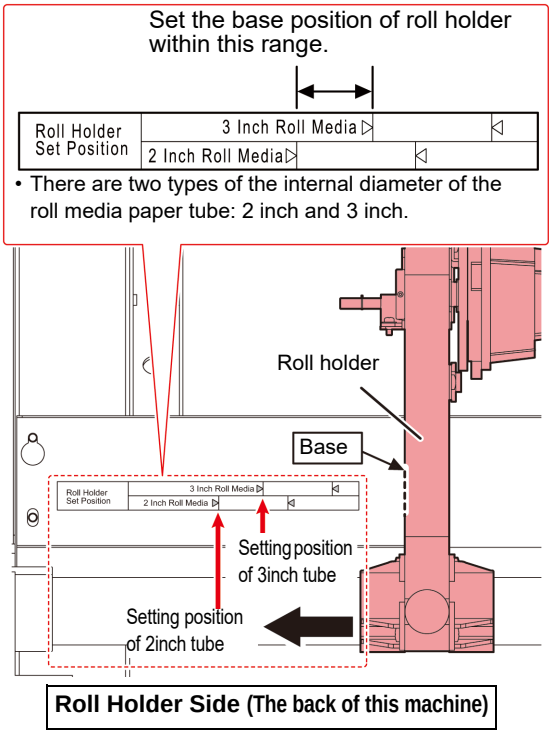


2 **Check the clamp lever is lowered.**



3 **Move the roll holder to the roll setting position.**

- Check the roll stopper is not caught between the roll stopper arm and this machine.

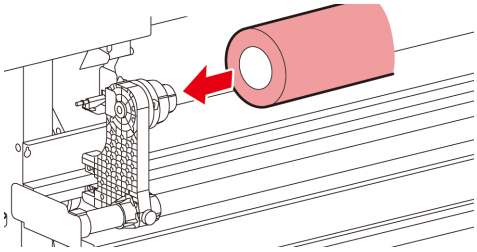


4 **Tighten the roll holder fixing screw.**

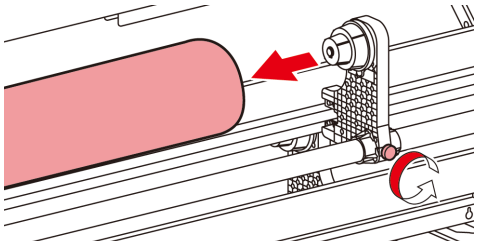
- Check the Step 2 to 3 again.

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

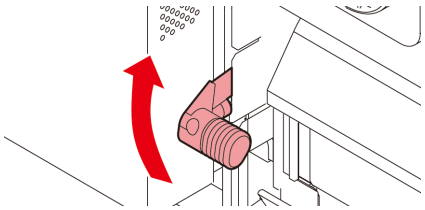
- Push the roll media onto the roll holder until the roll core is all the way seated.



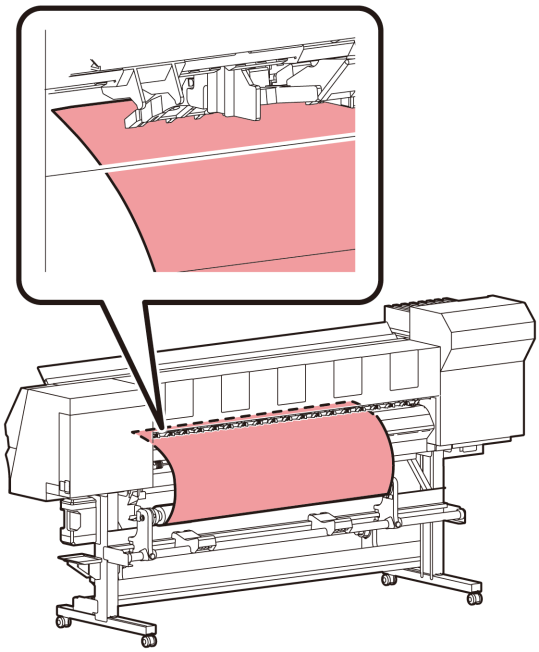
6 **Loosen the screw of the right side roll holder then insert the holder into the core of the roll media.**



7 **Raise the clamp lever in the rear of this machine.**



8 Insert the roll media in this machine.



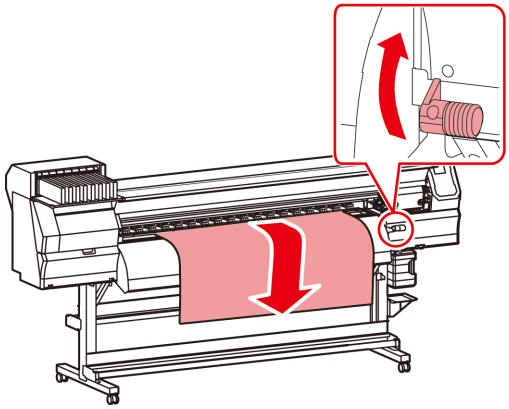
- The roll media can be smoothly inserted by slanting the media.

(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.

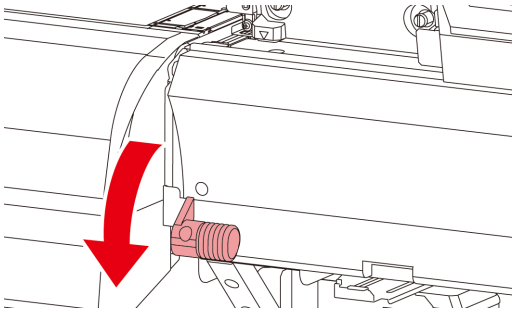
9 Pull out the roll media out.

(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.



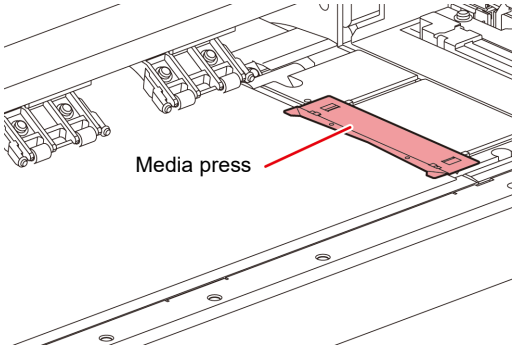
10 Make the roll media even then lower the clamp lever.

- Pulling several positions of the media lightly, Lower the clamp lever after confirming that the amount of the roll media pulled out is almost even.



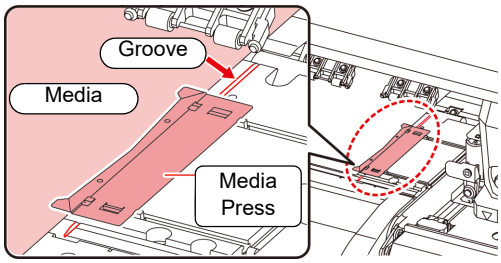
11 Hold the media with the media press gently.

- 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.

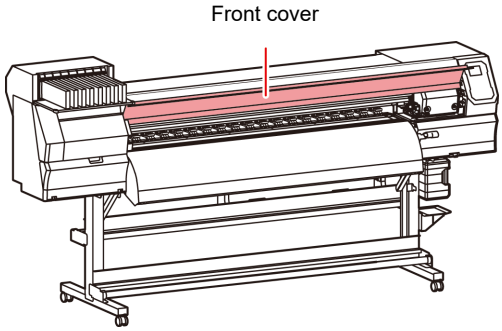


Caution

- When installing the media, align the media's right edge with the groove in the platen. Placing the media rightward of the groove will make it rise up if it moves obliquely, and this could cause damage to the head.
- If a media is misaligned to the right/left more than fixed position, a error message "MEDIA SET POSITION R" is displayed. Set the media again.



12 **Close the front cover.**



13 **Press the ◄ key to select “ROLL” .**

- Detects the media width.
- When [MEDIA RESIDUAL] of the maintenance function is “ON” (☞P.3-13), the screen for entering media remaining amount is displayed after detecting the media width.(☞P.2-7)

Entering the media remaining amount

When [MEDIA RESIDUAL] of the maintenance function is “ON” (☞P.3-13), the screen for entering media remaining amount is displayed after detecting the media width.

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

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

3 **Press the ENTER key.**

About the media residual print

When [MEDIA RESIDUAL] of the maintenance function is “ON” (☞P.3-13), You can print a list of print the current date and media remaining.

1 **In Local, Press ▲ ▼ ◄ ►.**

- It enters into the origin setting mode.

2 **Press the FUNC3 key.**

- Appear the confirmation screen of media remaining print.

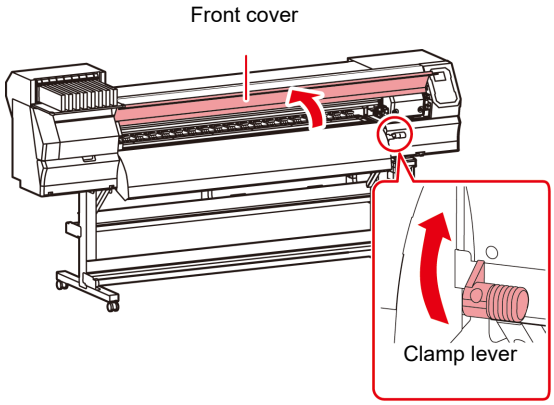
3 **Press the ENTER key.**

- Media residual print starts.

Setting leaf media

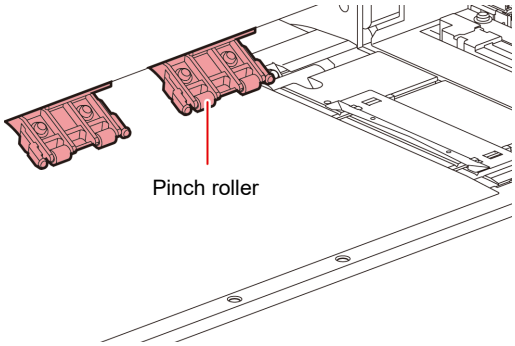
Unlike roll media, leaf media does not need to be retained with the roll holders.

1 **Open the front cover, and raise the clamp lever.**



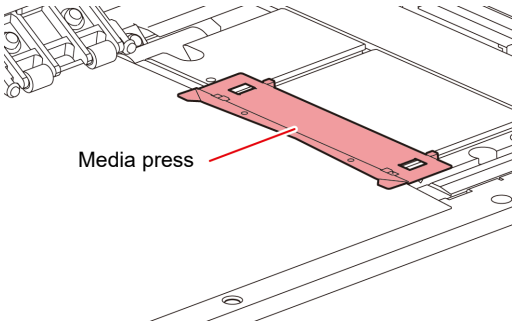
2 **Insert the leaf media between the platen and the pinch rollers.**

- Set the media so that no media sticks out from the right end pinch roller to the right side.



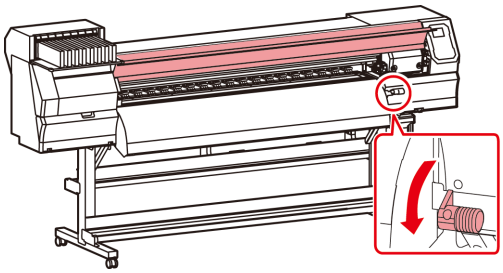
3 **Hold the media with the media press gently.**

- 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.



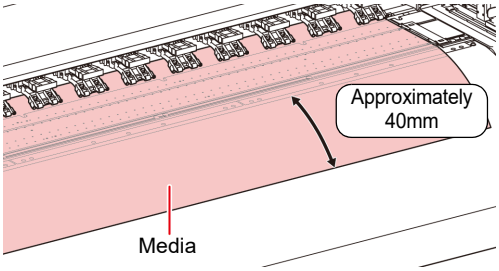
4 **Push down the clamp lever and close the front cover.**

- Set the media straight.



Important!

- Set the media on the black part of the platen so that it comes out approximately 40mm. If it is shorter than that, it may not be able to perform the media detection.



5 **Press the ENTER key.**

6 **Press the ▶ key to select "LEAF" .**

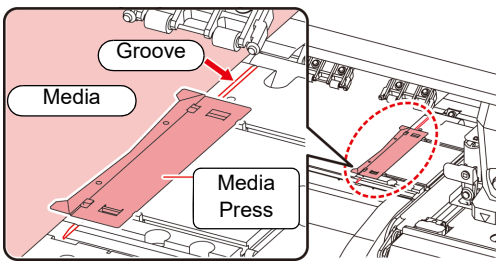
7 **The media detection is started.**

(1) The media width is detected.
(2) The media is fed then the rear end of media is detected.
(3) It returns to the Local when the detection is completed.

Notes when using media press

Caution

- When installing the media, align the media's right edge with the groove in the platen. Placing the media rightward of the groove will make it rise up if it moves obliquely, and this could cause damage to the head.
- If a media is misaligned to the right/left more than fixed position, a error message "MEDIA SET POSITION R" or is displayed. Set the media again.

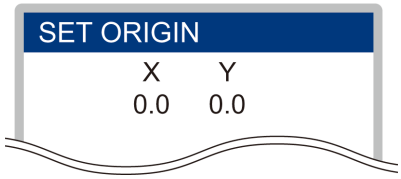


Changing the printing origin

The position of the printing origin can be changed.
Moving the LED pointer to the changing position and deciding the position.

1 **In Local, Press ▲ ▼ ◀ ▶.**

- It enters into the origin setting mode.



2 **Set a light point of the LED pointer to the changing position by pressing ▲ ▼ ◀ ▶.**

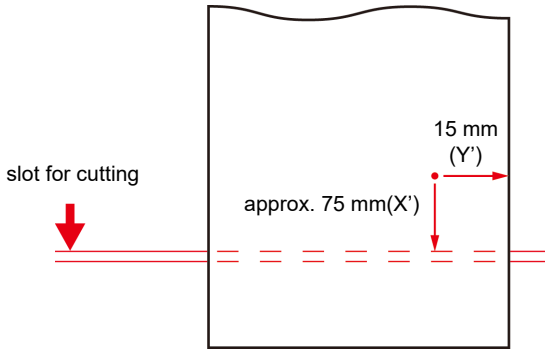
- Select the carriage and media, moving the point with [▲][▼][◀][▶].

3 **After determining the origin, press the ENTER key.**

- The printing origin is changed.

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.3-8)
This can be changed by using the Jog key.

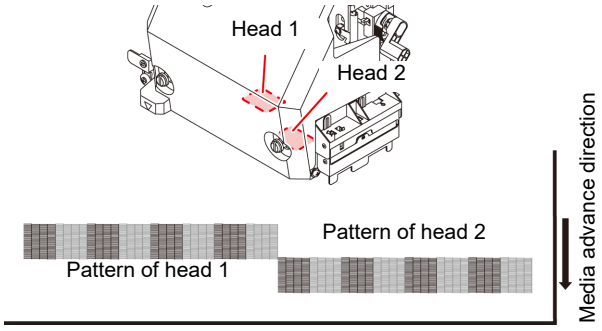


Test Printing

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.

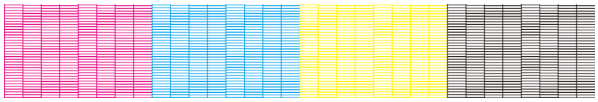


About test patterns

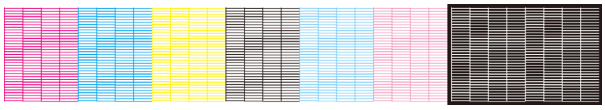
This machine provides you two test patterns.

● Normal test pattern (when using ink other than white ink)

When you use ink that you can check by printing a test pattern on a white media, print this test pattern.



● Test pattern for checking white ink



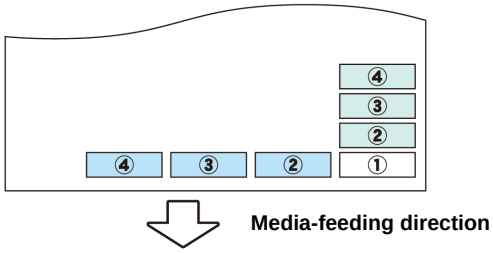
Note on test printing

Important!

- When using leaf media, set a media of more than A3 size put horizontally. If a media with narrow width is set, printing will only be conducted to midway.
- 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 image quality to deteriorate.

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."

Check before test printing.
• If a media has been set ☞ P.2-4
• If the origin position has been set
• If the head gap has been adjusted ☞ P.2-4

Perform test printing with the normal test pattern

1 **Press the FUNC2 (TEST PRINT/CLEANING), and press the ENTER key in LOCAL.**

- TEST PRINT MENU will be displayed.
- Press [▲][▼] to change the test pattern orientation.The orientation selected here will be reflected on when you will print next time.
- When performing test printing after having changed the orientation from "SCAN DIR." to "FEED DIR.", the line is fed to the position of the first test printing.

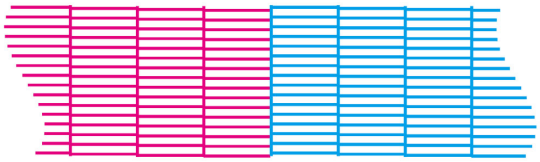
2 **Press the ENTER key.**

- Test printing starts.
- When the printing has been completed, the screen returns to LOCAL.

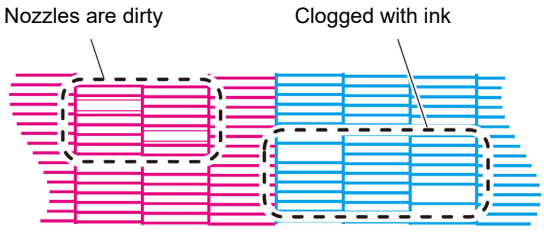
3 **Check the printed test pattern.**

- When the result is normal, end the operation.
- When the result is abnormal, perform head cleaning. (☞ P.2-11)

Normal pattern



Abnormal pattern



Perform test printing with the test pattern for checking white ink

It makes easier to check if print the background to the white ink locations in the pattern.

1 **Press the FUNC2 (TEST PRINT/CLEANING), and press the ENTER key in LOCAL.**

- TEST PRINT MENU will be displayed.

2 **Press ▲ ▼ to select “SpotColor Check”.**

3 **Press the ENTER key.**

- Print a test pattern in the following orders.

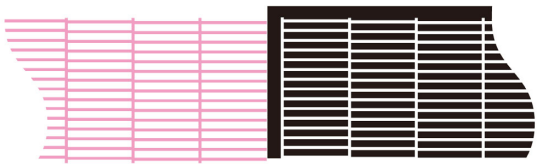
(1) Print the pattern daubed with black.
(2) Dry the pattern for thirty seconds.
- When press the [ENTER] key, cancel waiting time and shift to step (3).

(3) Return the media automatically and print the test pattern.

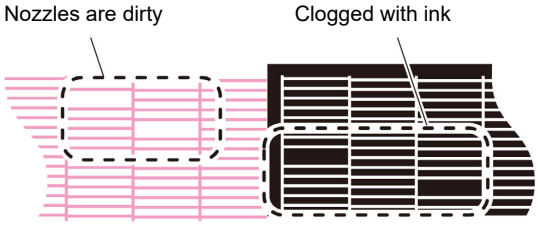
4 **Check the printed test pattern.**

- When the result is normal, end the operation.
- When the result is abnormal, perform head cleaning. (☞ P.2-11)

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 four types below:

NORMAL : When any line is missing
SOFT : When only head wiping is needed (when lines are bent)
HARD : When poor image quality cannot be improved even by NORMAL or SOFT cleaning
ULTRA : When poor image quality cannot be improved even by HARD cleaning

Perform head cleaning depending on the test printing result

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

1 **Press the (FUNC2) (TEST PRINT/CLEANING) ➡(▼)➡(ENTER) key in LOCAL.**

- CLEANING MENU will be displayed.

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

- **NORMAL** : Select this if any line is missing.
- **SOFT** : When only head wiping is desirable. (in case of bent lines)
- **HARD** : Select this if inferior printing cannot be improved even by [NORMAL] or [SOFT] cleaning.
- **ULTRA** : Select this if inferior printing cannot be improved even by [HARD] cleaning.

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

4 **Press (▲)(▼) to select the cleaning head, and press the (FUNC2) (✔).**

- After selecting the head, press the [FUNC2] key and put a check in the check box.
  The head whose box has been checked will be cleaned.
- To have both head 1 and head 2 cleaned, put a check in both their check boxes.

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

6 **Perform test printing again, and check the result.**

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

When the image quality is not improved after the head cleaning.

- Clean the wiper and ink cap. (☞ P.4-7)
- Wash the head nozzle. (☞ P.4-8)

Setting of Media Correction

Correct the media feed amount to match the type of media you are using.
If the correction value is not appropriate, stripes may appear on the printed image, thus resulting in a poor printing.

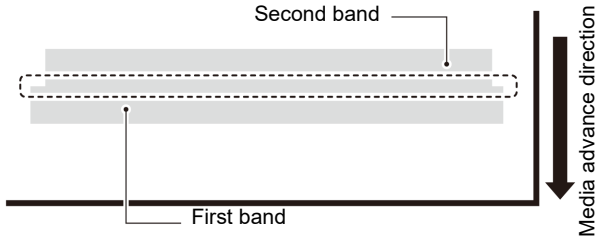
Important!

- On completion of [MEDIA COMP.] during use of a roll media, the media returns to the printing origin. Then the roll media in the rear of this machine will slacken.
  Before printing, take up the slack in the roll media by hand; a loose roll media can result in an inferior image quality.

Setting of Media 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.



1 **Set a media. (☞ P.2-4)**

2 **Press the (SEL) key, and press the (FUNC2) (ADJUST) in LOCAL.**

- ADJUST MENU will be displayed.

3 **Press the (ENTER) key twice to print the correction pattern**

4 **Check the correction pattern and enter a correction value.**

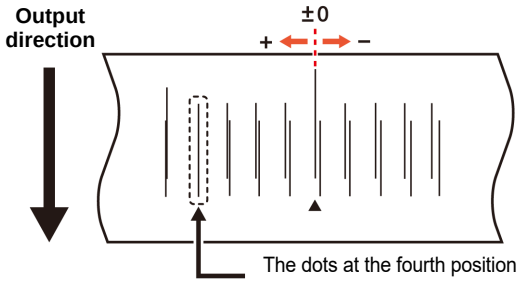
- A screen for entering the correction value will be displayed.
- **Enter a correction value in "+"**:
  The boundary between the two bands is widened.
- **Enter a correction value in "-"**:
  The boundary between the two bands is narrowed.
- When you change the correction value by "30", the width of the boundary changes by about 0.1 mm.

If the Positions of Dots Shift...

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

Important! • When using leaf media, set a media of more than A3 size put horizontally. If a media with narrow width is set, printing will only be conducted to midway.

Example of a Printed Pattern



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 **Press the SEL key, and press the FUNC1 (ADJUST) in LOCAL.**
- ADJUST MENU will be displayed.

2 **Press ▼, and press the ENTER key.**
- "DROP.POScorrect" will be selected.

3 **Press the ENTER key.**
- Printing of the Drop position correct printed pattern will start.
- Multiple test patterns are printed. (The printed patterns are called Pattern 1, Pattern 2, Pattern 3... in the order of printing.)

4 **Press ▲ ▼ to enter a correction value of Pattern 1, and press the ENTER key.**
- Corrected feeding rate: -40 to 40
- 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 and 40, adjust the height of the printing heads and then perform the operations in Step 2 and later.

5 **In the same way as in Step 4, enter a correction value of Pattern 2 and later, and press the ENTER key.**

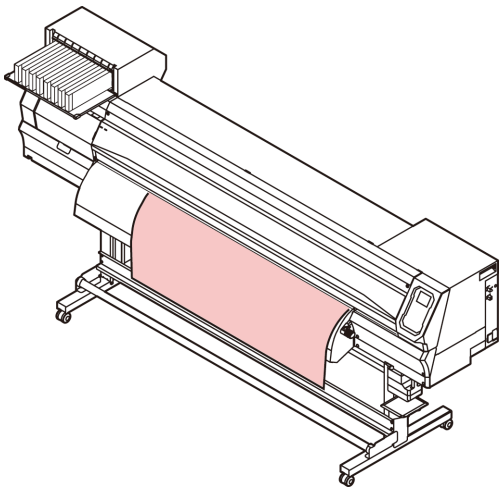
6 **Press the END/POWER key several times to end the setting.**

Printing Data

Starting a Printing Operation

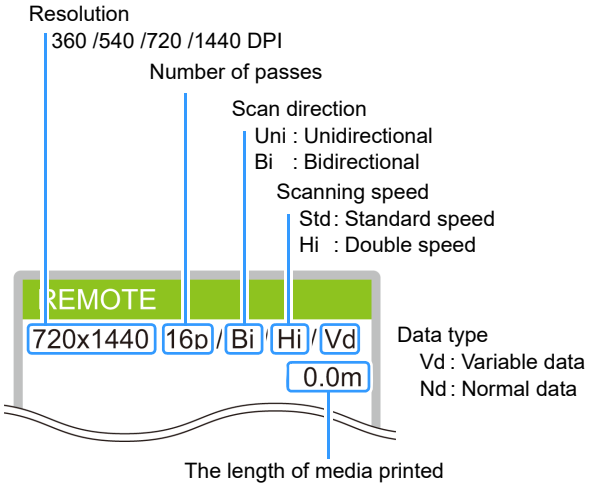
Important! • When using a roll media, rewind the media by hand before printing so that it is not loose.When the roll media has not been rewound tightly, it may cause the image quality to deteriorate.

1 **Setting a Media (☞ P.2-4)**



2 **Press the FUNC3 (REMOTE) key in LOCAL.**
- The screen changes to REMOTE, and data can be received from the PC.

3 **Transmit data to be printed from the PC.**
- The ACTIVE lamp blinks and the printing conditions are displayed.
- For the method of data transmission, see the instruction manual for the output software.



4 **Start printing.**
- The printing speed may change, depending on the width of the set media or the position of the print origin even when the same data is printed. This is because of a difference in resolution.

Stopping a Printing Operation

Perform the following operation when stopping a printing operation halfway.

1 **Press the (FUNC3) (LOCAL) 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.

Deleting Received Data (Data Clear)

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

1 **Press the (SEL) key, and press the (FUNC3) (DATA CLEAR) in LOCAL.**

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

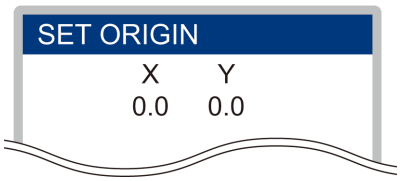
- The received data is erased then it returns to the Local.

Cutting a media

By using the keys on the operation panel, you can cut the media at any position.

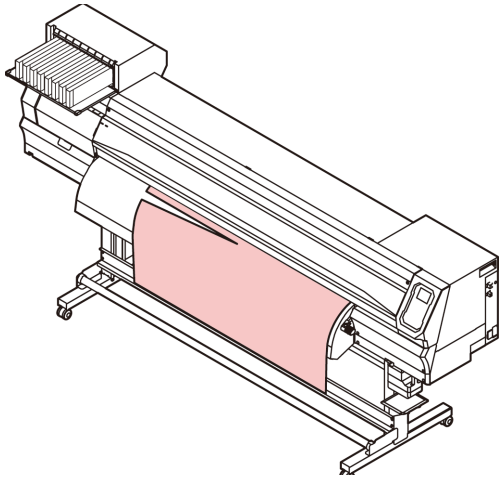
1 **In Local, Press (▲) (▼) (◀) (▶).**

- It enters into the origin setting mode.
- By pressing [▼] , feed the media to the cutting position.



2 **Press the (FUNC2) (ENTER) key.**

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



Chapter 3
Setup

This chapter

describes various settings of this machine.

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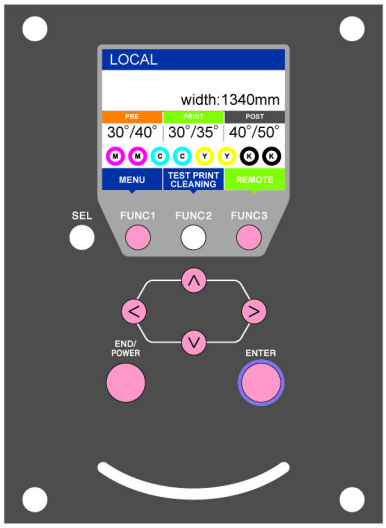
About SETUP MENU

On SETUP MENU, you can set the print conditions to match the media you usually use.



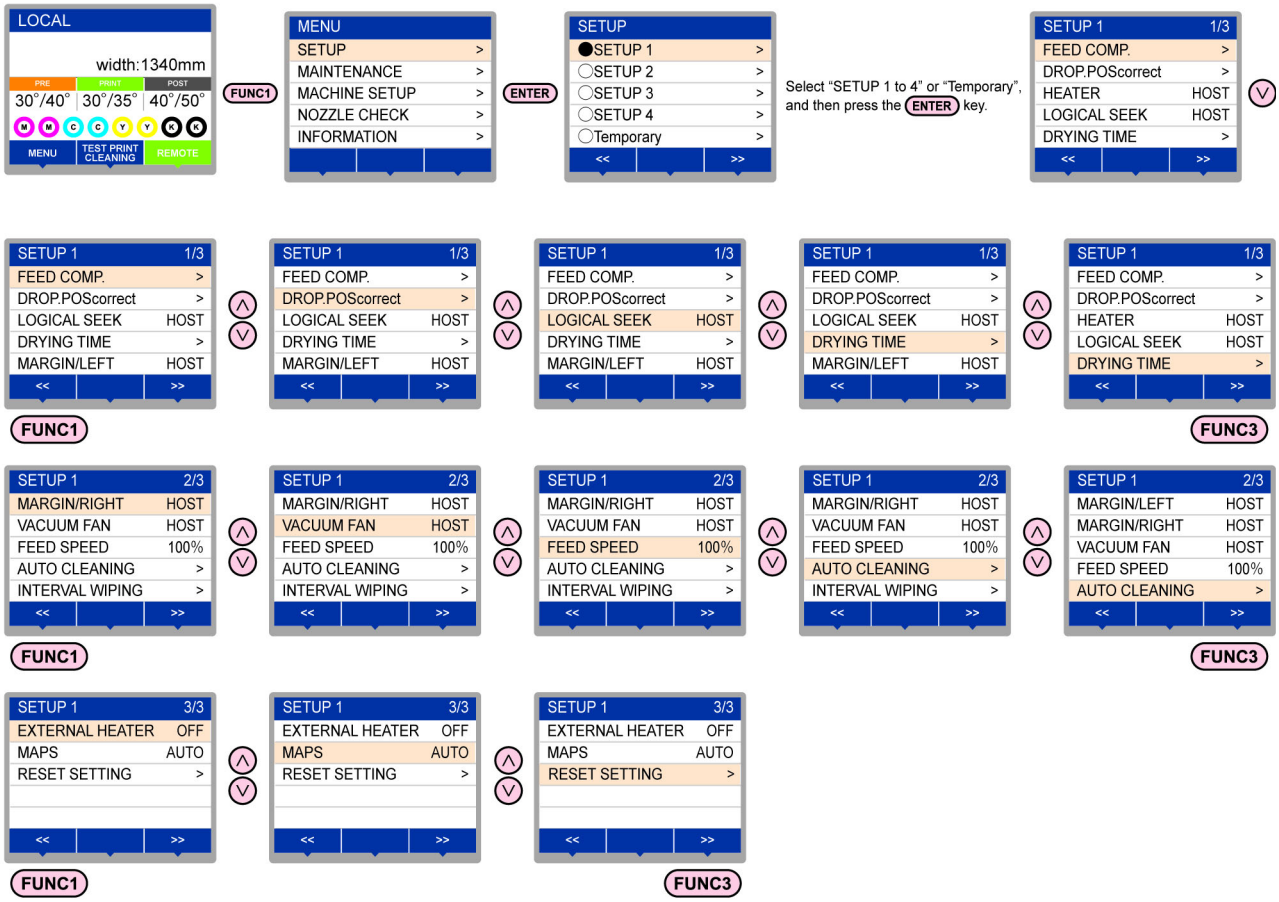
FUNC1 : Press this to select SETUP MENU, or to switch to the previous screen.

FUNC3 : Press this to switch to the next screen.

∧∨ : Use these to select a setting item.

ENTER : Press this to confirm a setting, etc..

◆SETUP MENUs at-a-glance



SETUP MENU table

Important!

- For each setting item below, you can set it so that the machine may operate according to the value specified when you printed from your RIP software in the connected host PC.
- **Set Item** : DRYING TIME/ MARGIN (LEFT and RIGHT)/ VACUUM FAN/ FEED SPEED
- When you operate the machine according to the contents specified with the RIP software, set each item to “Host” when registering this machine type. When you set it other than “Host”, the machine operates according to the machine setting.
- For the specifying method with the RIP software, refer to the operation manual of the RIP software.

Function name				Set value	When no instruction from RIP exists *1	Outline
FEED COMP. (☞ P.3-5)				-9999 to 0 to 9999	———	Used to print a pattern for correcting a media-feeding rate and correct it.
	Each Print Cond. (Plus series) (☞ P.3-6)			ON/OFF		You can perform feed correction and apply correction values for each print mode having different feed conditions.
				-255 to 0 to 255		
DROP.POScorrect (☞ P.3-6)				-40.0 to 0 to 40.0	———	Used to adjust the dot position in go and return printing.
LOGICAL SEEK (☞ P.3-7)				HOST/ON / OFF	OFF	Sets the scan movable area during printing.
DRYING TIME (☞ P.3-7)	SCAN			HOST/0.0 to 9.9 sec	0 sec	Sets the time to wait for ink drying.
	PRINT END			HOST/0 to 120 min	0 min	
MARGIN/LEFT (☞ P.3-8)				-10 to 85mm	0 mm	Sets a non-printing area along the right and left edges of the media.
MARGIN/RIGHT (☞ P.3-8)					0 mm	
VACUUM FAN (☞ P.3-8)				HOST/ WEAK/ STANDARD/ STRONG	STRONG	Sets the absorbability of the media.
FEED SPEED *2 (☞ P.3-8)				10 to 100 to 200 %	100 %	Changes the media feeding speed in printing.
AUTO CLEANING (☞ P.3-9)	OFF, FILE, LENGTH, TIME				———	Sets the automatic cleaning operation for the head performed before printing or during printing.
		FILE	INTERVAL	1 to 1000	———	
			TYPE	NORMAL/ SOFT/ HARD	———	
		LENGTH	INTERVAL	0.1 to100.0m	———	
			TYPE	NORMAL/ SOFT/ HARD	———	
		TIME	INTERVAL	10 to 120 min	———	
			TYPE	NORMAL/ SOFT/ HARD	———	
	Cleaning Check			ON/ OFF	———	Set to run or not a nozzle check after auto cleaning.
INTERVAL WIPING (☞ P.3-9)				3 to 255 min, OFF	———	Sets the wiping operation performed after printing is completed.
EXTERNAL HEATER				ON/OFF	———	Set to "ON" when use the external heater for drying the media. For more information, please refer to the separate manual, "Compact Relay BOX Operation Manual".
MAPS (☞ P.3-8)	AUTO					Change the effect of "MAPS".
	MANUAL	Speed		50 ～ 100%		
		Smoothing level		0 ～ 100%		
RESET SETTING (☞ P.3-5)				The configulation in the settings 1-4 can be reset ondividually.		

*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.

*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.

Register the optimal print conditions to match the use

In this machine, you will be able to register print conditions, SETUP 1 to 4 individually to match the media in advance.
For example, after print on different types of media, return to the media always use. In such case you can set the optimum printing conditions by simply selecting the registered SETUP 1 to 4.

- Print conditions that can be pre-registered with the machine are the four types, “SETUP 1” to “SETUP 4”.
- If you print with the print condition which do not often use, you will be able to set the print conditions by selecting "Temporary".
  If turn on the power again, settings in "Temporary" will return to the original state when it was purchased.
  Also if turn on the power again in “Temporary” state, it will be the state in selecting “SETUP 1”.

Register the print conditions to SETUP 1 to 4

1 **Press the FUNC1 (MENU) ➡ ENTER key in LOCAL.**

2 **Press ▲ ▼ to select SETUP 1 to 4, and press the ENTER key.**

- The item selected indicates ● and others show ○ .
- SETUP MENU will be displayed.

3 **Press ▲ ▼ to select and set each item in the setup menu list.**

- Please see the reference page in the setup menu list for detailed configuration procedure.

How to use [Temporary]

[Temporary] is not only to set the print condition to be used only once, but also can be used for partial change of the registered SETUP "1 to 4", or for reflecting the print conditions set by the [Temporary] to SETUP 1 to 4.

● Register the print conditions in [Temporary]

Registration of the print conditions to [Temporary] can be done as the same method as to SETUP 1 to 4.

1 **Press the FUNC1 (MENU) ➡ ENTER key in LOCAL.**

2 **Press ▲ ▼ to select “Temporary”, and press the ENTER key.**

- SETUP MENU will be displayed.

3 **Press ▲ ▼ to select and set each item in the setup menu list.**

- Please see the reference page in the setup menu list for detailed configuration procedure.

● Copy the contents of SETUP 1 to 4 to [Temporary]

You can use it with changing the part of registration contents of SETUP 1 to 4.
Select "RESET SETTING" then “COPY” from the registration screen of [Temporary], and specify the copy source (SETUP 1 to 4).

1 **Press the FUNC1 (MENU) ➡ ENTER key in LOCAL.**

2 **Press ▲ ▼ to select “Temporary”, and press the ENTER key.**

- SETUP MENU will be displayed.

3 **Press the FUNC1 (<<).**

4 **Press ▲ ▼ to select “RESET SETTING”, and press the ENTER key.**

5 **Press ▲ ▼ to select “COPY”, and press the ENTER key.**

- Selection screen of the copy source will be displayed.

6 **Press ▲ ▼ to SELECT the copy source (SETUP 1 to 4) and press the ENTER key.**

- Confirmation screen of the copy will be displayed.

7 **Press the ENTER key.**

- Settings selected in step 5 is copied to Temporary.

8 **Press ▲ ▼ to select the setting item to be changed, and press the ENTER key.**

- Please see the reference page in the setup menu list for detailed configuration procedure.

● Reflect The Content Set In [Temporary] To Setup 1 To 4

1 **Press the FUNC1 (MENU) ➡ ENTER key in LOCAL.**

2 **Press ▲ ▼ to select “Temporary”, and press the ENTER key.**

- SETUP MENU will be displayed.

3 **Press ▲ ▼ to select and set each item in the setup menu list.**

- Please see the reference page in the setup menu list for detailed configuration procedure.

4 **Display the last page of Temporary and select “SAVE SETTING”, and press the ENTER key.**

- Selection screen of the save location will be displayed.

5 **Press ▲ ▼ to select the location selected (SETUP 1 to 4), and press the ENTER key.**

- Save confirmation screen will be displayed.

6 **Press the ENTER key.**
- Settings of Temporary will be saved to the location selected in step 5.

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

Reset the registered contents

Reset the contents registered to SETUP 1 to 4.

1 **Press the FUNC1 (MENU) ➡ ENTER key in LOCAL.**

2 **Press ▲ ▼ to select SETUP 1 to 4 to be reset and press the ENTER key.**
- SETUP MENU will be displayed.

3 **Press the FUNC1 (<<).**

4 **Press ▲ ▼ to select "RESET SETTING", and press the ENTER key.**
- Confirmation screen of reset settings will be displayed.

5 **Press the END/POWER key several times to end the setting.**

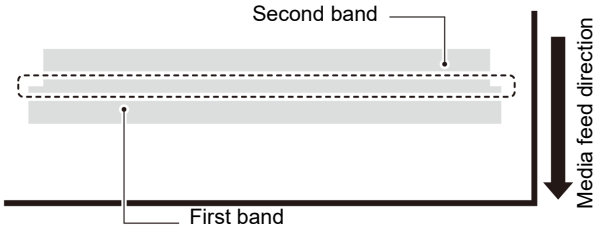
Setting of Media Correction

Correct the media feed amount to match the type of media you are using.
If the correction value is not appropriate, stripes may appear on the printed image, thus resulting in a poor printing.

Important!
- On completion of [MEDIA COMP.] during use of a roll media, the media returns to the printing origin. Then the roll media in the rear of this machine will slacken. Before printing, take up the slack in the roll media by hand; a loose roll media can result in an inferior image quality.

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.



1 **Set a media. (☞ P.2-4)**

2 **Press the FUNC1 (MENU) ➡ ENTER key in LOCAL.**

3 **Press ▲ ▼ to select SETUP 1 to 4, and press the ENTER key.**
- SETUP MENU will be displayed.

4 **Press ▲ ▼ to select "FEED COMP", and press the ENTER key.**

5 **Press ENTER the key twice to print a correction pattern.**

6 **Check the correction pattern and enter a correction value.**
- A screen for entering the correction value will be displayed.
- **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 "30", the width of the boundary changes by about 0.1 mm.

7 **Press the ENTER key.**
- Print a correction pattern again and check it.
- When media correction is needed, perform the operation in Step 6 to make correction.

8 **Press the END/POWER key several times to end the setting.**

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 FUNC1 (ADJUST) ➡ ENTER key in the Remote.**

2 **Press ▲ ▼ to enter a corrected feeding rate.**
- Corrected feeding rate: -9999 to 9999
- The value entered here is reflected in the corrected feeding rate soon.

3 **Press the ENTER twice key.**
- key. The changed value is registered.
- When you press the [ENTER] key instead of the [END] key, the value entered here will be valid temporarily.(When you perform media detection again or turn the power OFF, the correction value is cleared.)

Feed Comp by print condition

● **Applicable model: Plus series (FW Ver.1.20 or later)**

Conditions such as feed speed differ depending on the print mode.
By providing the correction value according to each mode, it is possible to reduce the work of changing correction values when outputting different print modes within the same setting.

1 **Set the media. (☞ P.2-4)**

2 **Press FUNC1 (MENU) ➡ ENTER key in local mode.**

3 **Press ▲ ▼ to select settings 1 to 4, and press the ENTER key.**

- The setting menu is displayed.

4 **Press ▲ ▼ to select "Feed Comp.", and press the ENTER key.**

5 **Press FUNC1 (MENU) on the screen waiting for "Print Start" to switch ON / OFF.**

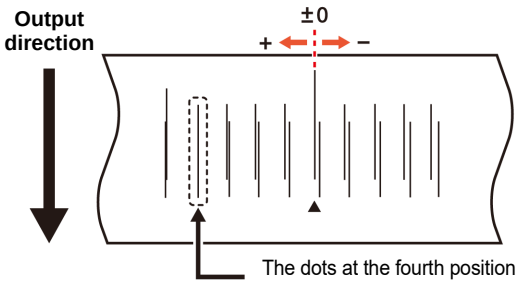
- When ON:
  You can correct for each condition and enter the correction value.
  Each correction value is applied according to the printing conditions.
  (1) 360x360
  (2) 540x360
  (3) All print modes except the above (resolution).
- When OFF:
  One correction value is applied to all print modes(resolution).

- If the advanced setting is set to "ON", perform adjustment in all print modes (resolution) used.

If the Positions of Dots Shift...

When the condition for printing (media thickness/ink type/ 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 Printed Pattern



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. (☞ P.2-4)**

- In order to print a pattern, a media that is 500 mm wide at least is necessary.

2 **Press the FUNC1 (MENU) ➡ ENTER key in LOCAL.**

3 **Press ▲ ▼ to select SETUP 1 to 4, and press the ENTER key.**

- In order to print a pattern, a media that is 500 mm wide at least is necessary.
- SETUP MENU will be displayed.

4 **Press ▲ ▼ to select “DROP.POS correct”, and press the ENTER key.**

5 **Press the ENTER key.**

- Start the pattern printing.
- Multiple test patterns are printed. (The printed patterns are called Pattern 1, Pattern 2, Pattern 3... in the order of printing.)

6 **Press ▲ ▼ to enter a correction value of Pattern 1, and press the ENTER key.**

- Corrected feeding rate: -40 to 40
- 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 and 40, adjust the height of the printing heads and then perform the operations in Step 2 and later.

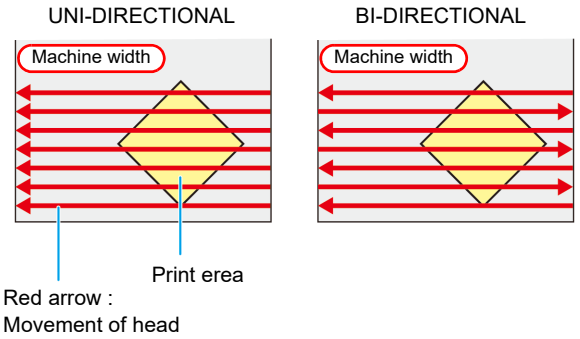
7 **In the same way as in Step 4, enter a correction value of Pattern 2 and later, and press the ENTER key.**

8 **Press the END/POWER key several times to end the setting.**

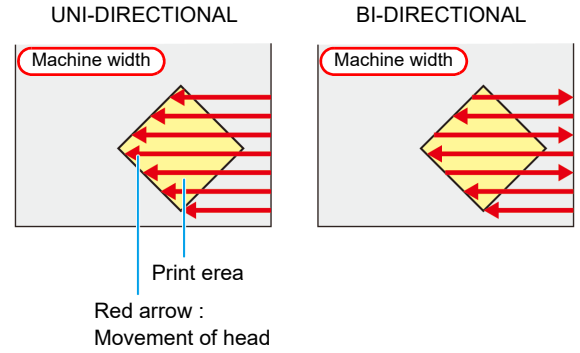
Setting of Logical Seek

The head's operation varies depending on the LOGICAL SEEK settings, as shown in the figure below.

Movement of heads when LOGICAL seek is OFF



Movement of heads when LOGICAL seek is ON



1 **Press the FUNC1 (MENU) ➡ ENTER key in LOCAL.**

2 **Press ▲ ▼ to select SETUP 1 to 4, and press the ENTER key.**

- SETUP MENU will be displayed.

3 **Press ▲ ▼ to select "LOGICAL SEEK", and press the ENTER key.**

4 **Press ▲ ▼ to select a set value, and press the ENTER key.**

- **Set value** : HOST / ON / OFF

5 **Press the END/POWER key several times to end the setting.**

Setting of Drying Time

In the drying time setting, the following items for ink drying time are set.

- **SCAN** : 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.)
- **PRINT END** : Ink drying time after printing has been complete is set.

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.
- You cannot specify the print end at the RasterLink side. When you set this machine to "Host", printing will be performed in "PRINT END= 0 min." status.

1 **Press the FUNC1 (MENU) ➡ ENTER key in LOCAL.**

2 **Press ▲ ▼ to select SETUP 1 to 4, and press the ENTER key.**

- SETUP MENU will be displayed.

3 **Press ▲ ▼ to select "DRYING TIME", and press the ENTER key.**

4 **Press the ENTER key.**

5 **Press ▲ ▼ ◀ ▶ to set drying time, and press the ENTER key.**

- Set the drying time for canning and after printing is completed. To enable the drying time specified in your RIP, select "Host".
- **Scanning setting value** : Host or 0.0 sec. to 9.9 sec.
- **Print end setting value**: Host or 0 sec. to 120 min.
- **Item selecting** : by the [▲][▼] keys
- **Time setting** : by the [◀][▶] keys

6 **Press the END/POWER key several times to end the setting.**

Setting of Left and Right Margins

Set a non-printing area along the left and right 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.
- The margin setting is reflected when the media width is detected.

1 **Press the FUNC1 (MENU) ➡ ENTER key in LOCAL.**

2 **Press ▲ ▼ to select SETUP 1 to 4, and press the ENTER key.**
- SETUP MENU will be displayed.

3 **Press ▲ ▼ to select “Margin/L” or “Margin/R”, and press the ENTER key.**

4 **Press ▲ ▼ to select a set value, and press the ENTER key.**
- **Set value** : HOST / -10 to 85 mm

5 **Press the END/POWER 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.

Setting of Vacuum Fan

Sets the absorbability of the media.
By setting the absorption power to match the media, you can prevent print errors due to media rise-up.

1 **Press the FUNC1 (MENU) ➡ ENTER key in LOCAL.**

2 **Press ▲ ▼ to select SETUP 1 to 4, and press the ENTER key.**
- SETUP MENU will be displayed.

3 **Press the FUNC3 (>>) .**

4 **Press ▲ ▼ to select “VACUUM FAN”, and press the ENTER key.**

5 **Press the ENTER key.**

6 **Press ▲ ▼ to select a set value, and press the ENTER key.**
- **Set value** : HOST/WEAK /STANDARD/ STRONG

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

Setting of Feed Speed

Changes the media feeding speed in printing.

1 **Press the FUNC1 (MENU) ➡ ENTER key in LOCAL.**

2 **Press ▲ ▼ to select SETUP 1 to 4, and press the ENTER key.**
- SETUP MENU will be displayed.

3 **Press the FUNC3 (>>) .**

4 **Press ▲ ▼ to select ““FEED SPEED”, and press the ENTER key.**

5 **Press the ENTER key.**

6 **Press ▲ ▼ to select a set value, and press the ENTER key.**
- **Set value** : HOST / 10 to 200%

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

Important!
- Some settings do not change the speed depending on the print conditions.

Setting of MAPS

The MAPS (Mimaki Advanced PassSystem) function to disperse the pass boundary to make the feeding stripes less visible.
With this function, the degree of application of MAPS can be changed.

Important!
- MAPS provides two setting options: “AUTO” and "MANUAL" MAPS applies the one most suitable for your printing conditions, so please normally use "AUTO" (default value).

- Changing the MAPS settings may change the color tone. Check the effects before use.
- MAPS may not be effective depending on image to be printed. Use it after checking effect in advance.

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.

Besides, automatic nozzle check after auto cleaning can be set. (Cleaning Check function)
The machine can perform a stable printing operation with its heads always kept clean.

1 **Press the FUNC1 (MENU) ➡ ENTER key in LOCAL.**

2 **Press ▲ ▼ to select SETUP 1 to 4, and press the ENTER key.**

- SETUP MENU will be displayed.

3 **Press the FUNC3 (>>) .**

4 **Press ▲ ▼ to select "AUTO CLEANING", and press the ENTER key.**

5 **Press ENTER key, and press ▲ ▼ to select the type of auto cleaning.**

- There are "PAGE", "LENGTH" and "TIME" for auto cleaning.
  FILE: 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 7.

6 **Press ENTER key, and press ▲ ▼ to select the cleaning interval.**

- Depending on the auto cleaning type selected in the Step 3, the setting value differs.
  For FILE : 1 to 1000 file
  For LENGTH : 0.1 to 100.0m (in 0.1m increment)
  For TIME : 10 to 120min (in 10min increment)

7 **Press ENTER key, and press ▲ ▼ to select the cleaning type.**

- **Set Value** : NORMAL/ SOFT/HARD

8 **Press ENTER key, and press ▲ ▼ to select "Cleaning Check".**

9 **Press ENTER key, and press ▲ ▼ to select set value.**

- **Set Value** : ON/ OFF

10 **Press the ENTER key.**

11 **Press the END/POWER 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 Interval wiping

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, set the interval between each operation shorter.

1 **Press the FUNC1 (MENU) ➡ ENTER key in LOCAL.**

2 **Press ▲ ▼ to select SETUP 1 to 4, and press the ENTER key.**

- SETUP MENU will be displayed.

3 **Press the FUNC3 (>>) .**

4 **Press ▲ ▼ to select "INTERVAL WIPING", and press the ENTER key.**

5 **Press ▲ ▼ to set intervals.**

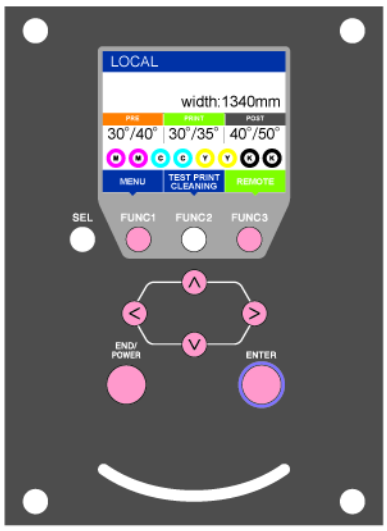
- Set Value : 3 to 255 Minutes, OFF
- When [OFF] is set, periodical wiping is not executed.

6 **Press the ENTER key.**

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

About MACHINE SETUP MENU

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



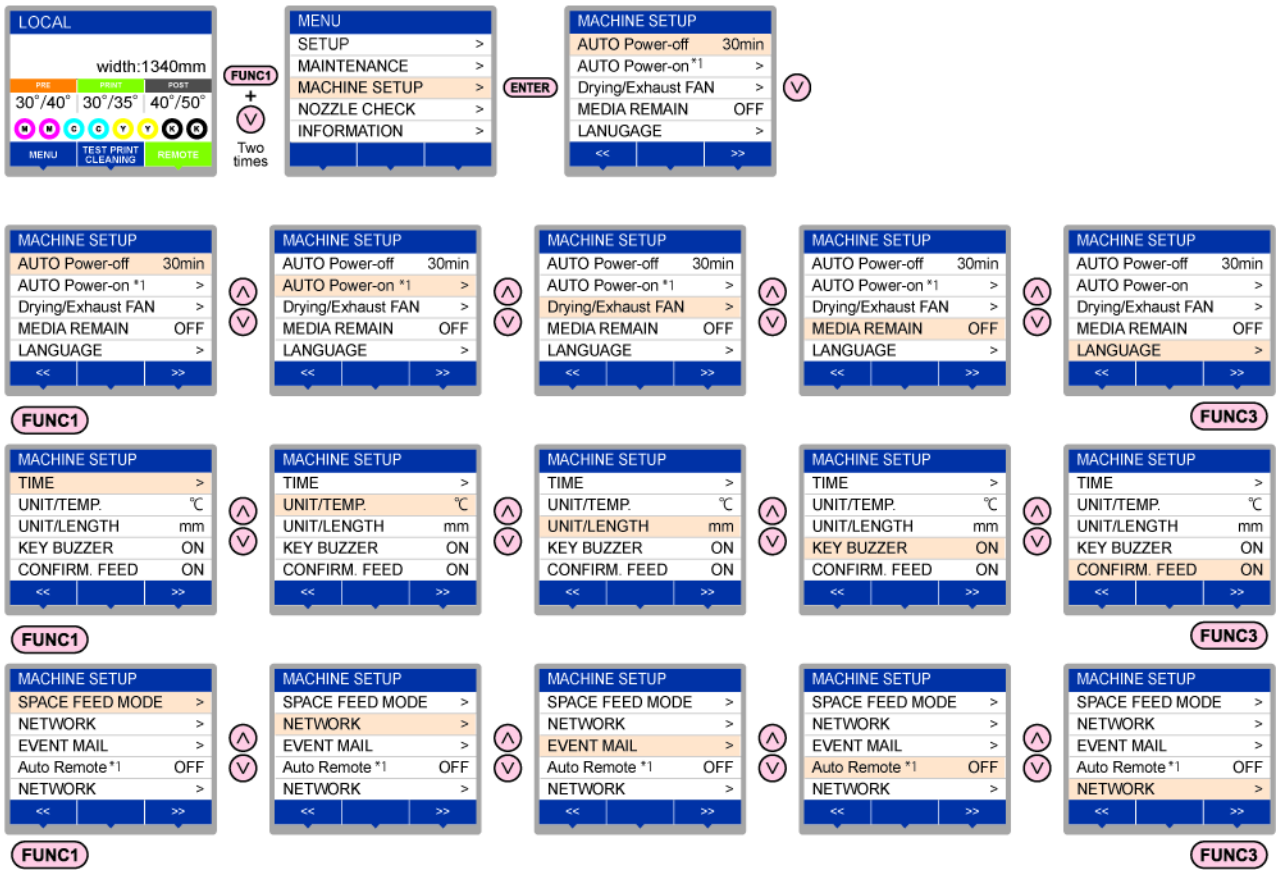
FUNC1 : Press this to select MACHINE SETUP MENU, or to switch to the previous screen.

FUNC3 : Press this to switch to the next screen.

∧∨ : Use these to select a setting item.

ENTER : Press this to confirm a setting, etc..

◆ MACHINE SETUP MENUs at-a-glance



*1: [AUTO POWER ON], [Auto Remote] Applicable model: Plus series

MACHINE SETUP MENU table

Function name		Set value		Default	Meaning
AUTO Power-off (☞ P.3-12)		NONE/ 10 ~ 600min		30min	When no operation has been performed for the set time, the power supply is automatically turned “OFF”.
AUTO Power-on (Plus series) (☞ P.3-12)	SETUP	ON/OFF		OFF	The machine starts automatically at the set day of the week and time.
	Time	0:00 ~ 23:59 [1 minute unit]		0:00	
	Day	Each day of the week. ON/OFF		ON (All)	
Drying/Exhaust FAN		Set when use the optional Drying / exhaust fan. For more information, please refer to the instruction manual that came with the Drying/exhaust fan.			
MEDIA REMAIN (☞ P.3-13)		ON/ OFF		OFF	You can control the remaining amount of media.
LANGUAGE (☞ P.3-13)				English	Displayed language is changed.
TIME (☞ P.3-13)		+4h ~ -20h		Japan time	Time difference is corrected.
UNIT/ TEMP. (☞ P.3-13)		°C (Centigrade)/°F (Fahrenheit)		°C	A unit for displaying temperature is set.
UNIT/ LENGTH (☞ P.3-13)		mm / inch		mm	A unit for displaying length and area is set.
KEY BUZZER (☞ P.3-14)		OFF / ON		ON	A buzzer sound when keys are pressed is set.
CONFIRM. FEED (☞ P.3-14)		ON / OFF		ON	Set whether media feeding is performed for checking the result of the test printing etc. or not.
SPACE FEED MODE (☞ P.3-14)		INTERMITTENT / CONTINUOUS		INTERMITTENT	Change the feed mode of the margin included in the image data.
NETWORK (☞ P.3-14)	Set the network.				
	Check IP Addr.	The IP address currently used by this machine is displayed.			
	Check MAC Addr.	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.			
	Default 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.			
EVENT MAIL	Mail Delivery (☞ P.3-15)	ON / OFF		OFF	Set whether you send/ do not send the e-mail when the set event occurs.
	Select Event (☞ P.3-16)	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.
		Error Event	ON / OFF	OFF	Set whether you send/ do not send the e-mail when a error occurs.
		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 (☞ P.3-16)	Set the e-mail address to which you send the event mail.		-	Alphanumeric characters and symbols (within 96 characters)
	Message Subject (☞ P.3-16)	Set the characters to write in the subject of the event mail.		-	Alphanumeric characters and symbols (within 8 characters)
	Server Setup (☞ P.3-17)	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.
	Server Setup (☞ P.3-17)	Authentication	POP before SMTP	-	Set the SMTP server authentication method (SMTP authentication).
			SMTP Authentication	-	
			OFF	-	
		User Name *2		-	Set the user name used for the authentication.
		Pass Word *2		-	Set the password used for the authentication.

Function name		Set value	Default	Meaning
EVENT MAIL	Server Setup (☞ P.3-17)	POP3 Address *3	-	Set the POP server.
		APOP *3	-	Set ON/ OFF of APOP.
	Transmit Test (☞ P.3-18)	Send the test e-mail.		
Auto Remote (Plus series) (☞ P.3-19)		ON / OFF	OFF	When data is received in the local mode, it automatically switches to the remote mode and sets whether to start printing.
RESET(☞ P.3-19)			-	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

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 FUNC1 (MENU) ➡ ▼ (twice) ➡ ENTER key in LOCAL.**
- MACHINE SETUP MENU will be displayed.

2 **Press ▲ ▼ to select “AUTO POWER OFF”, and press the ENTER key.**

3 **Press ▲ ▼ to select a set value, and press the ENTER key.**
- **Set Value** : none, 10 to 600min

4 **Press the END/POWER key several times to end the setting.**

Setting a AUTO Power-on

● **Applicable model: Plus series (FW Ver.1.30 or later)**

The machine starts automatically at the set day of the week and time.
Combining the "AUTO Power-on" setting with the heater setting shortens the waiting time until print preparation.

- If you want to turn off the power automatically, use the "AUTO Power-off" function.

1 **Press the FUNC1 (MENU) ➡ ▼(twice)➡ ENTER key in local mode.**
- MACHINE SETUP MENU will be displayed.

2 **Press ▲ ▼ to select “AUTO POWER ON”, and press the ENTER key.**

3 **With "SETUP" selected, press the ENTER key.**

4 **Press ▲ ▼ to select a set value, and press the ENTER key.**
- **Set Value**: ON/ OFF
  ON: Auto Power-on
  OFF: Not Auto Power-on

5 **Press ▲ ▼ to select “Time”, and press the ENTER key.**

6 **Press FUNC2 ▲ ▼ to set the auto power-on time and press the ENTER key.**
- **Set Value: 0:00 to 23:59 (24 hour system, 1 minute unit)**
  FUNC2: Change in hours.
  ▲ ▼: Change in minutes.

7 **Press ▲ ▼ to select “Day”, and press the ENTER key.**

8 **Press ▲ ▼ to select the day of the week to change the setting, and press FUNC2 key to switch ON/OFF.**
- **Set Value:** ON/ OFF (Each day of the week)
  ON: Auto power-on on the specified day of the week.
  OFF: Do not turn on auto power-on the specified day of the week.

9 **After setting ON/OFF for all days, press the ENTER key.**

10 **Press the END/POWER key several times to end the setting.**

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.2-7)
- The setting configured here does not become effective unless media detection is performed after the setting has been complete.

1 **Press the FUNC1 (MENU) ➡▼ (twice) ➡ ENTER key in LOCAL.**
- MACHINE SETUP MENU will be displayed.

2 **Press ▲▼ to select "MEDIA REMAIN", and press the ENTER key.**

3 **Press ▲▼ to select ON/OFF.**

4 **Press the ENTER key.**

5 **Press the END/POWER key several times to end the setting.**

- When set "ON" the media remaining display, you can print the list of current media remaining amount and the date. (☞ P.2-7)

Setting a LANGUAGE

You can change the displayed language.

1 **Press the FUNC1 (MENU) ➡▼ (twice) ➡ ENTER key in LOCAL.**
- MACHINE SETUP MENU will be displayed.

2 **Press ▲▼ to select "LANGUAGE", and press the ENTER key.**

3 **Press ▲▼ to select language, and press the ENTER key.**

4 **Press the END/POWER key several times to end the setting.**

Setting Time

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

1 **Press the FUNC1 (MENU) ➡▼ (twice) ➡ ENTER key in LOCAL.**
- MACHINE SETUP MENU will be displayed.

2 **Press ▲▼ to select "TIME", and press the ENTER key.**

3 **Press ▲▼◀▶ to enter time, and press the ENTER key.**
- **Year/Month/Day/Time selecting**: by the [◀][▶] keys.
- **Year/Month/Day/Time inputting**: by the [▲][▼] keys.

4 **Press the END/POWER key several times to end the setting.**

- -20 hours to +4 hours can be set.

Setting Unit (Temperature/ Length)

Units used by this machine are set.

1 **Press the FUNC1 (MENU) ➡▼ (twice) ➡ ENTER key in LOCAL.**
- MACHINE SETUP MENU will be displayed.

2 **Press the FUNC3 (>>) .**

3 **Press ▲▼ to select "UNIT/TEMP." or "UNIT/LENGTH", and press the ENTER key.**
- MACHINE SETUP MENU will be displayed.

4 **Press ▲▼ to select a set value, and press the ENTER key.**
- **Set value of tempture** : °C / °F
- **Set value of length** : mm / inch

5 **Press the END/POWER key several times to end the setting.**

Setting a KEY BUZZER

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

1 **Press the FUNC1 (MENU) ➡ ▼ (twice) ➡ ENTER key in LOCAL.**
- MACHINE SETUP MENU will be displayed.

2 **Press the FUNC3 (>>) .**

3 **Press ▲ ▼ to select "KEY BUZZER", and press the ENTER key.**

4 **Press ▲ ▼ to select a set value, and press the ENTER key.**
- **Set value** : ON/ OFF

5 **Press the END/POWER 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.

Setting the CONFIRM. FEED

Set whether media feeding is performed for checking the result of the test printing etc. or not.

1 **Press the FUNC1 (MENU) ➡ ▼ (twice) ➡ ENTER key in LOCAL.**
- MACHINE SETUP MENU will be displayed.

2 **Press the FUNC3 (>>) .**

3 **Press ▲ ▼ to select "CONFIRM. FEED", and press the ENTER key.**

4 **Press ▲ ▼ to select a set value, and press the ENTER key.**
- **Set value** : ON/ OFF

5 **Press the END/POWER key several times to end the setting.**

Setting the SPACE FEED MODE

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 FUNC1 (MENU) ➡ ▼ (twice) ➡ ENTER key in LOCAL.**
- MACHINE SETUP MENU will be displayed.

2 **Press the FUNC3 (>>) .**

3 **Press ▲ ▼ to select "SPACE FEED MODE" , and press the ENTER key.**

4 **Press ▲ ▼ to select a set value, and press the ENTER key.**

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

5 **Press the END/POWER key several times to end the setting.**

Set the network

1 **Press the FUNC1 (MENU) ➡ ▼ (twice times) ➡ ENTER key in LOCAL.**
- MACHINE SETUP MENU will be displayed.

2 **Press the FUNC3 (>>) .**

3 **Press ▲ ▼ to select "NETWORK", and press the ENTER key.**

4 **Press the ENTER key.**
- "CHECK IP ADDRESS" will be selected.
- The IP address currently used by this machine is displayed.
- When you have finished the check, press the [ENTER] key.

- 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.

5 **Press ▼, and press the ENTER key.**
- "CHECK MAC ADDRESS" will be selected.
- The MAC address currently used by this machine is displayed.
- When you have finished the check, press the [ENTER] key.

6 **Press ▼, and press the ENTER key.**
- "DHCP" will be selected.

7 **Press ▲ ▼ to select a set value, and press the ENTER key.**

- **Set value** : ON/ OFF
- When it is ON, the IP address given by the DHCP server is used.

8 **Press ▼, and press the ENTER key.**

- "AutoIP" will be selected.

9 **Press ▲ ▼ to select a set value, and press the ENTER key.**

- **Set value** : ON/ OFF
- When it is ON, the IP address is determined by the AutoIP protocol. However, DHCP is ON, DHCP has priority.

10 **Press ▼, and press the ENTER key.**

- "IP ADDRESS" will be selected.

11 **Press ▲ ▼ to select a set value, and press the ENTER key.**

- **Set value** : ON/ OFF
- Both of DHCP and AutoIP is OFF, you can set IP Address. For other than above, proceed to the Step 14.

12 **Press the FUNC3 key .**

- The setting items DEFAULT GATEWAY, DNS ADDRESS and SUBNET MASK will be displayed.
- Both of DHCP and AutoIP is OFF, you can set DEFAULT GATEWAY/ DNS ADDRESS/ SUBNET MASK. For other than above, proceed to the Step 14.

13 **Press the ▼ several times to select setting item, and press the ENTER key.**

14 **Press ▲ ▼ to select a set value, and press the ENTER key.**

15 **Press the END/POWER key several times to end the setting.**

- 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.

- 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 machine/ 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 FUNC1 (MENU) ➡ ▼ (twice times) ➡ ENTER key in LOCAL.**

- MACHINE SETUP MENU will be displayed.

2 **Press the FUNC1 (>>) .**

3 **Press ▲ ▼ to select "EVENT MAIL", and press the ENTER key.**

4 **Press the ENTER key.**

- "MAIL DELIVERY" will be selected.

5 **Press ▲ ▼ to select "ON", and press the ENTER key.**

6 **Press the END/POWER key several times to end the setting.**

Set the event to send an event mail

1 **Press the FUNC1 (MENU) ➡▼ (twice times) ➡ENTER key in LOCAL.**
- MACHINE SETUP MENU will be displayed.

2 **Press the FUNC1 (>>) .**

3 **Press ▲▼ to select “EVENT MAIL”, and press the ENTER key.**

4 **Press ▼, and press the ENTER key.**
- “SELECT EVENT” will be selected.

5 **Press ▲▼ to select the event, and press the FUNC2 (✔).**
- After selecting the event, press the [FUNC2] key and put a check in the check box.
  An email will be sent when the event whose box has been checked occurs.
- To select multiple events, use [▲][▼] to put the cursor over the events you want, and put a check in their boxes by pressing [FUNC2].

Event name	Outline
PRINT START	Sets sending/not sending of an email when printing starts.
PRINT END	Sets sending/not sending of an email when printing ends.
ERROR	Sets sending/not sending of an email when printing is stopped due to occurrence of an error.
WARNING	Sets sending/not sending of an email when a warning occurs during printing.
etc.	Sets sending/not sending of an email when an event other than the above occurs.

6 **Press the END/POWER key several times to end the setting.**

Set the e-mail address

1 **Press the FUNC1 (MENU) ➡▼ (twice times) ➡ENTER key in LOCAL.**
- MACHINE SETUP MENU will be displayed.

2 **Press the FUNC1 (>>) .**

3 **Press ▲▼ to select “EVENT MAIL”, and press the ENTER key.**

4 **Press ▼ twice, and press the ENTER key.**
- “MAIL ADDRESS” will be selected.

5 **Press ▲▼◀▶ to set mail address, and press the ENTER key.**
- Set the e-mail address to which you send the event mail.
- Set it with alphanumeric characters and symbols within 96 characters.

6 **Press the END/POWER key several times to end the setting.**

Set the subject

1 **Press the FUNC1 (MENU) ➡▼ (twice times) ➡ENTER key in LOCAL.**
- MACHINE SETUP MENU will be displayed.

2 **Press the FUNC1 (>>) .**

3 **Press ▲▼ to select “EVENT MAIL”, and press the ENTER key.**

4 **Press ▼ 3 times, and press the ENTER key.**
- “MASSAGE SUBJECT” will be selected.

5 **Press ▲▼◀▶ to set subject, and press the ENTER key.**
- Set the characters to write in the subject of the event mail.
- Set it with alphanumeric characters and symbols within 8 characters.

6 **Press the END/POWER key several times to end the setting.**

Set the server

1 **Press the FUNC1 (MENU) ➡▼ (twice times) ➡ENTER key in LOCAL.**
- MACHINE SETUP MENU will be displayed.

2 **Press the FUNC1 (>>) .**

3 **Press ▲▼ to select “EVENT MAIL”, and press the ENTER key.**

4 **Press ▼ 4 times, and press the ENTER key.**
- “SERVER SETUP” will be selected.

5 **Press the ENTER key.**
- “SMTP ADDRESS” will be selected.

6 **Press ▲▼◀▶ to set SMTP Address, and press the ENTER key.**
- Press the jog key [▲][▼][◀][▶] to set SMTP address.
- Input the SMTP address name.

7 **Press ▼, and press the ENTER key.**
- “SMTP PORT No.” will be selected.

8 **Press ▲▼ to set SMTP Port No., and press the ENTER key.**
- Set the SMTP port number.

9 **Press ▼, and press the ENTER key.**
- “SENDER ADDRESS” will be selected.

10 **Press ▲▼◀▶ to set SENDER ADDRESS, and 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.

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

11 **Press ▼, and press the ENTER key.**
- “AUTHENTICATION” will be selected.

12 **Press ▲▼ to set authentication method, and press the ENTER key.**
- Set the authentication method of the SMTP server.
- When you select [OFF], proceed to the Step 20.

13 **Press ▼, and press the ENTER key.**
- “USER NAME” will be selected.

14 **Press ▲▼◀▶ to set User Name, and 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.

15 **Press ▼, and press the ENTER key.**
- “PASSWORD” will be selected.

16 **Press ▲▼◀▶ to set Pass Word, and press the ENTER key.**
- Press [▲][▼][◀][▶] to set the password to use for the authentication.
- Set it with alphanumeric characters and symbols within 15 characters.

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

- When you select [POP before SMTP] in the Step 11, set the items in the Step 16 to 19.

17 **Press ▼, and press the ENTER key.**
- “POP3 ADDRESS” will be selected.

18 **Press ▲▼◀▶ to set POP3 Address, and press the ENTER key.**
- Press [▲][▼][◀][▶] to set POP server.
- Input the POP server name.

19 **Press ▼, and press the ENTER key.**
- “APOP” will be selected.

20 **Press ▲▼ to set ON/ OFF, and press the ENTER key.**

21 **Press the END/POWER key several times to end the setting.**

Send a test e-mail

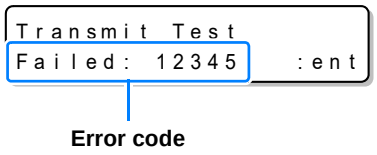
1 **Press the FUNC1 (MENU) ➡ ▼ (twice times) ➡ ENTER key in LOCAL.**
- MACHINE SETUP MENU will be displayed.

2 **Press the FUNC1 (>>) .**

3 **Press ▲ ▼ to select “EVENT MAIL”, and press the ENTER key.**

4 **Press the FUNC3 (>>) ➡ ENTER key.**
- “TRANSMIT TEST” will be selected.

5 **Press the ENTER key.**
- 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.



6 **Press the END/POWER key several times to end the setting.**

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. Or, there was no response.	• 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. Or, it is invalid sender address.	• Check the e-mail address. • Even if there is a mistake in the e-mail address, this error cannot be detected in some cases. • Check that the e-mail address supporting the account entered in the user name/ the password is set in SENDER ADDRESS.
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.

Automatic remote

● **Applicable model: Plus series (FW Ver.1.30 or later)**

When data is received in local mode, it automatically switches to remote mode and starts printing.

1. **Press (FUNC1) (MENU) ➡(▼)(twice)➡ (ENTER) key in local mode.**
   - MACHINE SETUP MENU will be displayed.
2. **Press (FUNC3) (>>).**
3. **Press (▲)(▼) to select "Auto Remote", then press the (ENTER) key.**
4. **Press (▲)(▼) to select "ON/OFF", then press the (ENTER) key.**
   - **ON:** When data is received in local mode, it automatically shifts to REMOTE and starts printing.
   - **OFF**: Remote transfer by pressing.
5. **Press the (END/POWER) key several times to end the setting.**

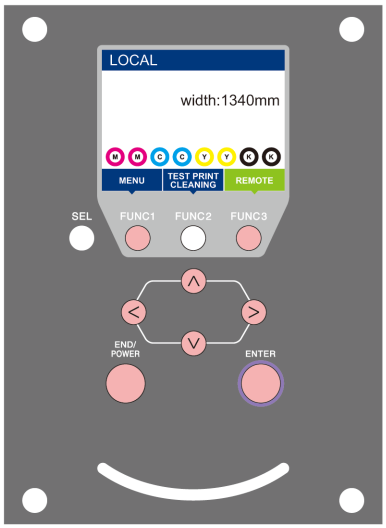
Initializing the Settings

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

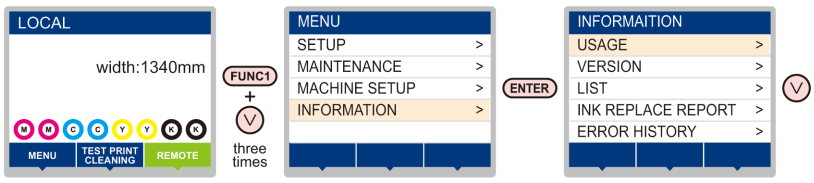
1. **Press the (FUNC1) (MENU) ➡(▼) (twice) ➡ (ENTER) key in LOCAL.**
   - MACHINE SETUP MENU will be displayed.
2. **Press the (FUNC1) (>>) .**
3. **Press (▲)(▼) to select “RESET”, and press the (ENTER) key.**
4. **Press the (ENTER) key.**
   - The already configured settings are initialized.
5. **Press the (END/POWER) key several times to end the setting.**

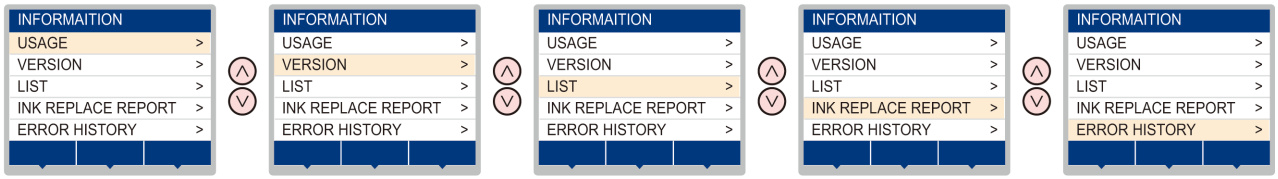
About INFORMATION MENU

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



FUNC1 : Press this to select INFORMATION MENU, or to switch to the previous screen.
FUNC3 : Press this to switch to the next screen.
∧∨ : Use these to select a setting item.
ENTER : Press this to confirm a setting, etc..





INFORMATION MENU table

Item		Description
USAGE	WIPING	This displays how many wipings have been done.
	WASTE TANK	This displays how much waste ink has built up in the waste ink tank, as a rough percentage of the tank capacity.
	PRINT LENGTH	This displays the total length of the printing done to date.
	PRINT AREA	This displays the total area of the printing done to date.
	USE TIME	This displays the total time for which the printer has been used to date.
	Spout Rubber	This displays the total time for which Spout Rubber has been used. (Only displayed when MBIS is used)
VERSION		This displays the version information of this machine.
LIST		This allows you to print the settings of this machine.
Ink REPL. Report		This prints ink history of this machine.
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.

Displaying the Information

1 **Press the (FUNC1) (MENU) ➡(▼) (3 times) ➡(ENTER) key in LOCAL.**

• INFORMATION MENU will be displayed.

2 **Press (▲)(▼) to select a information.**

• Refer to the “INFORMATION MENU”, and select the information to be displayed.

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

• If you selected [LIST] in step 2, the machine’s settings will be printed.

4 **Press the (END/POWER) key several times to end the setting.**

- When you reset the used count of the wiper, press the [FUNC2] key while [RESET?] is displayed. When you press the [ENTER] key, the number of wipings is reset.
- By pressing the function key during display of “WIPING information,” “WASTE TANK information” and “Spout Rubber” in USAGE, the used counts can be reset.

When resetting WIPING information : Press the [FUNC2]
When resetting WASTE TANK information : Press the [FUNC1]
When resetting Spout Rubber : Press the [FUNC3]

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 cartridges etc.

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Cleaning the Platen 4-2
Cleaning the Media Sensor 4-3
Cleaning the Media Press 4-3
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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.

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

	• Pay close attention to ventilation and be sure to wear the included safety glasses and gloves provided, and the filtering face mask, when handling ink, maintenance cleaning solution, waste ink, or other solutions used in this machine. Failure to do so may result in ink or other liquids splashing and coming into contact with the skin, eyes, or mouth.
	• 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 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 switch on the front side, leave the main power switch at the right side turned ON (in the position of |), and leave the power cable connected.
	• Do not wipe the nozzle face of the heads, wiper, caps, etc. with water or alcohol.Doing so can cause nozzle clogging or machine failure. • Do not use benzine, 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.

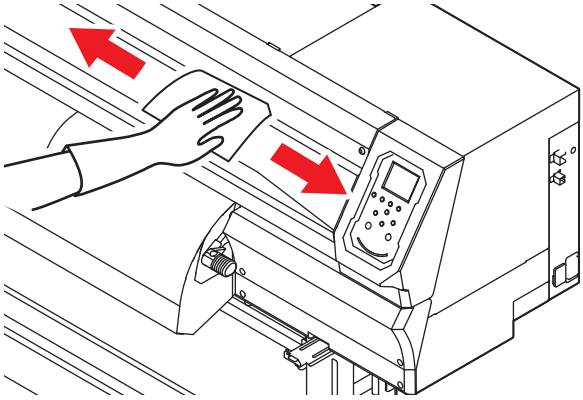
About Cleaning Solution

Use the cleaning liquid dedicated for the ink being used.

Type of Ink	Applicable maintenance washings
Sublimation dye ink	Cleaning-Solution Bottle kit A29 (SPC-0137) [Sold separately]

Cleaning the Exterior Surfaces

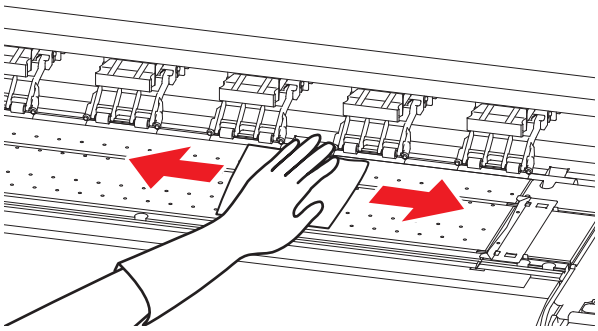
When the exterior surfaces of the machine are stained, dampen a soft cloth with water or a neutral detergent diluted with water, squeeze it, and wipe the surfaces with the cloth.



Cleaning the Platen

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

Continuing to use the media while it is dirty may cause media to be fed incorrectly, or rubbing dirt or solid ink onto the head nozzle surface, resulting in discharge failure (nozzle clogging, deflection, etc.).



- Do not allow liquids to enter the machine. There is a risk of equipment failure, electric shock, or fire.

- If the dirt is noticeable, use a soft cloth soaked in a neutral detergent diluted with water, wrung out,and then wiped off.
- Before cleaning the platen, make sure that the platen has cooled adequately.

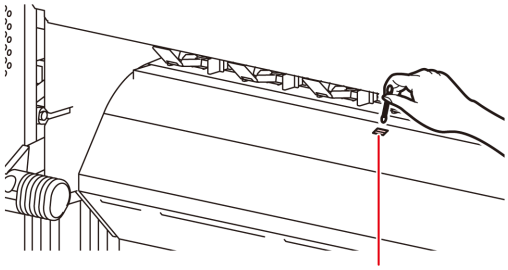
- The groove that slides the media press and the groove that cuts the media are particularly easy to collect dust. Please carefully remove the dust.

Cleaning the Media Sensor

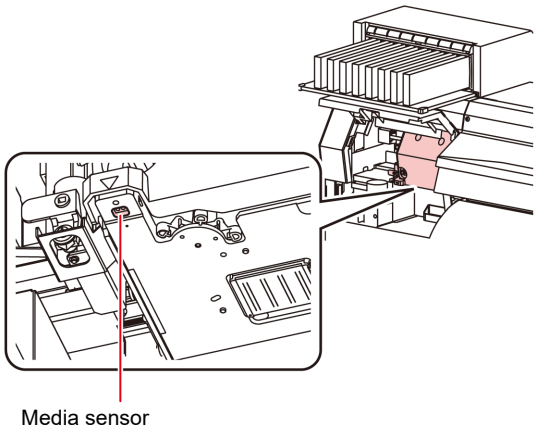
The media sensors are located on the platen in the backside and the bottom surface of the head. When the sensor is covered with dust, etc., it may cause false detection of media.
Using a cotton swab, remove the dust, etc. accumulated on the surface of the sensor.

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.4-11 “Cleaning the Ink Head and the Area around It”, and then clean it.

The backside of the machine



The lower surface of the head

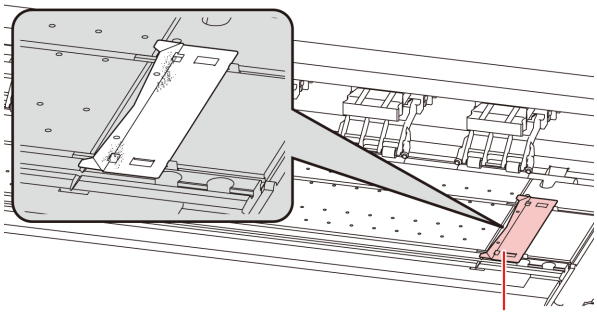


Caution

- Don’t touch the cutter around the media sensor. Sharp cutter tip may injure you.

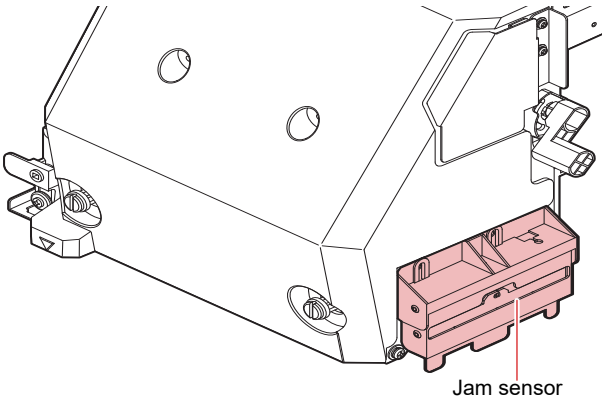
Cleaning the Media Press

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.



Cleaning the Jam Sensor

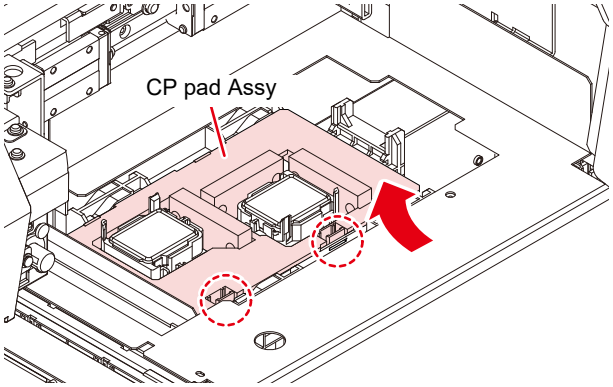
The jam sensor unit is attached to the right side of the carriage. If ink stains or dust accumulate on the sensor unit, it may cause a media jam. Clean the jam sensor periodically.



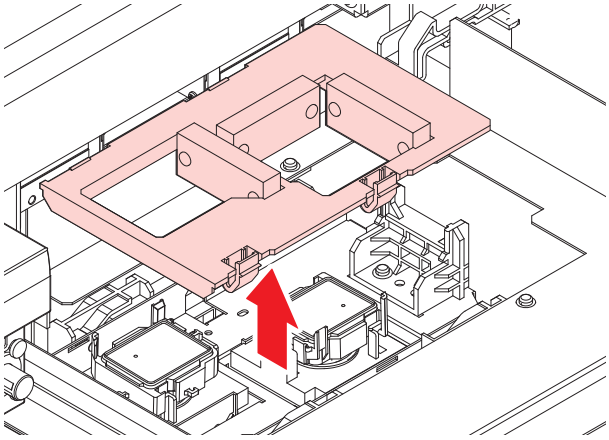
Replace the CP pad set

Replace CP pad set (SPA-0257) when it is dirty.

1 **Push up the tabs (2places) of CP pad Assy.**

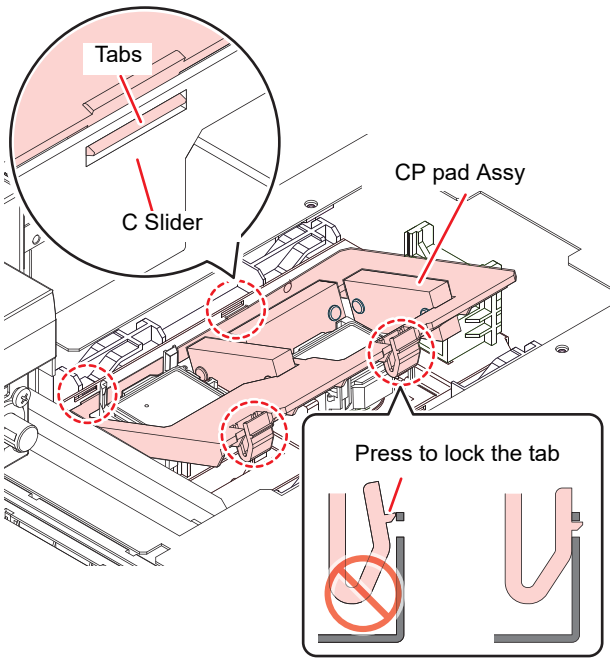


2 **Remove the CP pad Assy.**



3 **Attach a new CP pad Assy.**

- After inserting the tabs of CP pad Assy to the slit of C slider, fit the whole.



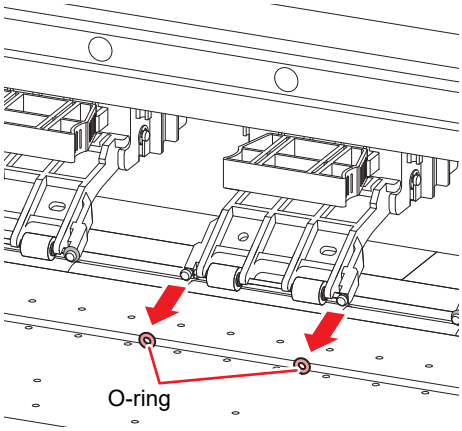
Cleaning or replace the pinch roller

Cleaning the pinch roller (SPA-0247) when it is dirty.
Also replace the pinch roller when it is worn or dirty.

1 **Raise the clamp lever to keep the pinch roller lifted.**

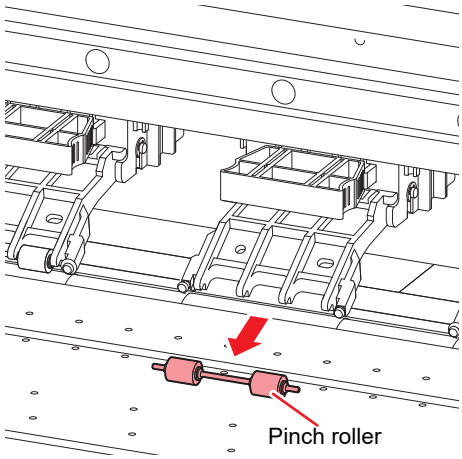
2 **Remove the O-ring retaining the pinch roller.**

Important! • Be careful not to drop the parts in the gap of the device as they are small.



3 **Remove the pinch roller.**

Important! • Be careful not to drop the parts in the gap of the device as they are small.

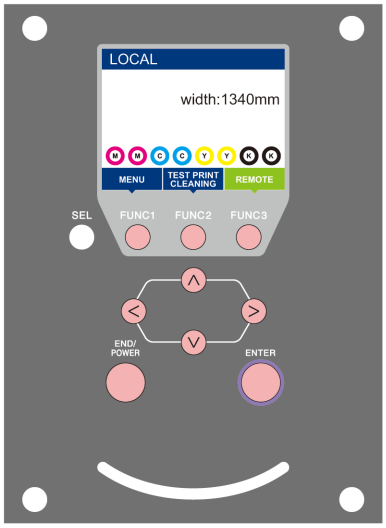


4 **Clean the O-ring and pinch roller.**

- Wipe off the ink sticking to the O-ring and pinch roller with a clean stick dipped in cleaning solution for maintenance. Wipe off so that cleaning solution for maintenance will not remain.
- Attach a new pinch roller, and reattach a new O-ring to their original position when dirt does not fall even if it cleans it.

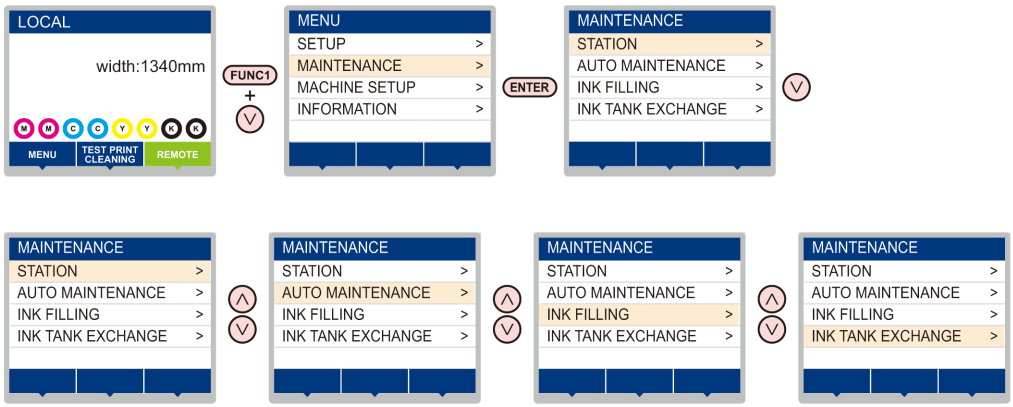
About MAINTENANCE MENU

This provides various settings for doing maintenance on the machine.
The following items can be set in Maintenance settings.

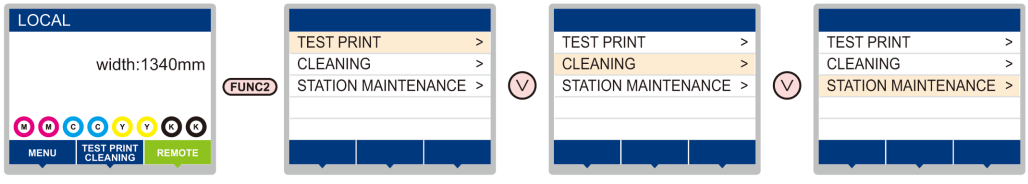


FUNC1 : Press this to select MAINTENANCE MENU, or to switch to the previous screen.
FUNC2 : Press this to use the maintenance function.
FUNC3 : Press this to switch to the next screen.
∧∨ : Use these to select a setting item.
ENTER : Press this to confirm a setting, etc..

◆ MAINTENANCE MENUs at-a-glance



◆ Screen transition when FUNC2 key is pressed



MAINTENANCE MENUs at-a-glance

Item		Set value	Meaning
STATION MAINTENANCE	For carrying out maintenance on the carriage and station periphery.		
	CARRIAGE OUT (☞P.4-7)	———	Moves the carriage out, for carrying out cleaning of the cap periphery, head, wipers, etc.
	NOZZLE WASH (☞P.4-8)	1 to 99min	Soaks the nozzle surfaces in maintenance cleaning fluid, for carrying out recovery from nozzle clogging or bent.
	DISWAY WASH (☞P.4-9)	———	Executes washing of the suction pump tubes.
	CUSTODY WASH (☞P.4-9)	1 to 99min	Carried out when the machine is going to be out of use for an extended period. Washes the nozzles and tubes beforehand, to keep the machine in fine condition.
	WIPER EXCHANGE (☞P.4-14)		Used when replacing the wiper. If the wiper is replaced, the number of times the wiper was used that is managed in this machine is reset.
AUTO MAINTENANCE (☞P.4-12)	For having the various maintenance functions executed automatically. Set the execution interval for each maintenance function.		
	REFRESH	The set value will differ according to the ink type being used.	For setting the activation interval for refresh.
	CLEANING		For setting the activation interval for head cleaning.
	CLEANING TYPE	NORMAL/ SOFT/ HARD	For setting the type of head cleaning.
INK FILLING (☞P.4-13)	Supplies ink to correct nozzle clogging.		
INK TANK EXCHANGE (☞P.4-16)	Resets or corrects the used count for the waste ink tank.		

Daily care other than the maintenance menu

Item		Meaning
Ink Maintenance(☞P.4-13)		Executes the ink maintenance.
Replacing consumables (☞P.4-14)	Replacing the wiper(☞P.4-14)	Replace the wiper.
	Replacing the Cutter Blade(☞P.4-16)	Replace the blade of the cutter.

Maintaining the Capping Station

Maintain the ink cap, wiper, etc. located in the capping station. (SATION MAINT.)

Important! • To keep the nozzle status normal, perform wiper cleaning frequently.

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.

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.2-11) has been performed, use a cleaning solution kit and clean stick.

Tools required for Maintenance		
• Cleaning-Solution Bottle kit A29(SPC-0137)		
• Clean stick (SPC-0527)	• Gloves	• Safety glasses

Caution
- Be sure to wear the supplied safety glasses 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 [FUNK1] key to execute the carriage-out. (☞ P.4-7Steps 1 to 2)

Cleaning the Wiper and Cap

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!
- Replace the wiper with a new one when it is extremely dirty or bent.(☞ P.4-14)
- 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.

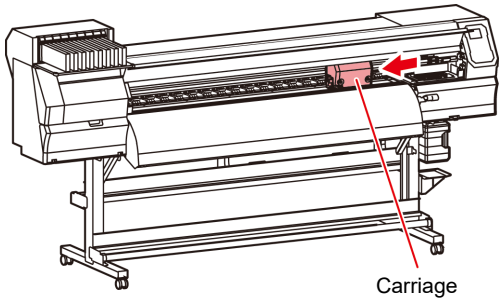
1 **Press the FUNC1 (MENU) ➡ ▼ ➡ ENTER key in LOCAL.**

- MAINTENANCE MENU will be displayed.

2 **Press the ENTER key twice.**

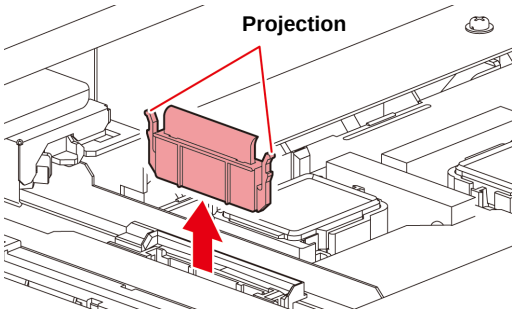
- The carriage moves onto the platen.

3 **Open the front cover.**



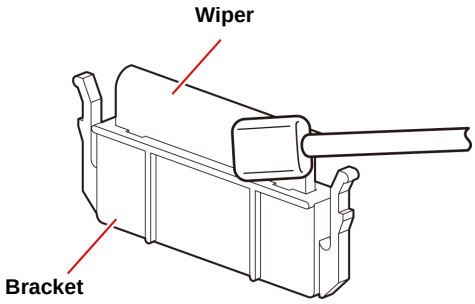
4 **Remove the wiper.**

- Pull out the wiper by holding the projections at its both ends.



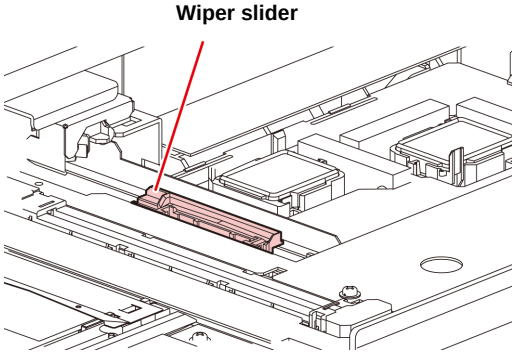
5 **Clean the wiper and bracket.**

- 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.



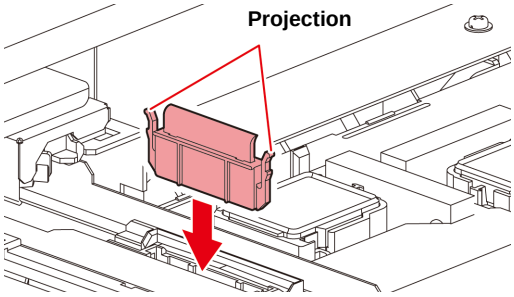
6 **Clean the wiper slider.**

- 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.



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

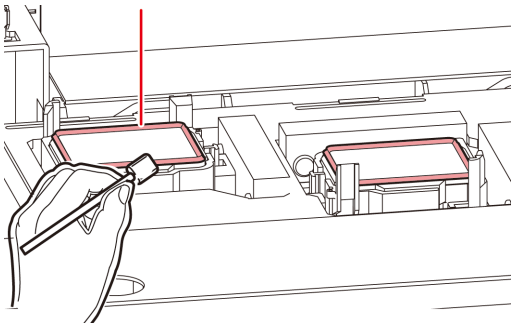
- Insert the wiper by holding the projections at its both ends.



8 **Clean the cap rubber.**

- Wipe off the ink sticking to the cap rubber with a clean stick dipped in maintenance solution for maintenance.
  Wipe off so that maintenance solution for maintenance will not remain.

Cap rubber



9 **Press the ENTER key after the cleaning.**

10 **Close the front cover then press the ENTER key.**

- After its initial operation, the machine returns to step1.

Washing the Head Nozzle

1 **Press the FUNC1 (MENU) ➡ ▼ ➡ ENTER key in LOCAL.**

- MAINTENANCE MENU will be displayed.

2 **Press the ENTER key.**

- “STATION” will be selected.

3 **Press ▼, and press the ENTER key.**

- “NOZZLE WASH” will be selected and the carriage will move onto the platen.

4 **Open the front cover.**

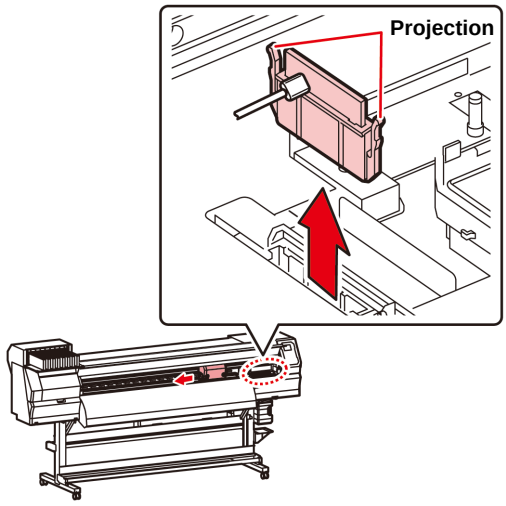
5 **Clean the wiper and the bracket, and press the ENTER key.**

(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 maintenance washing liquid for maintenance. (SPC-0137

- Wipe off so that maintenance washing liquid for maintenance will not remain.

(3) Insert it in the original position by holding the projections at both ends of the wiper.

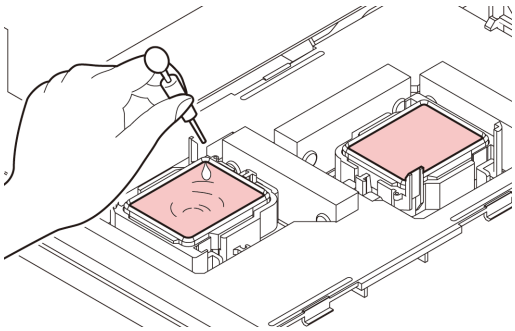


6 **Clean the cap rubber , and press the ENTER key.**

- Wipe off the ink sticking to the cap rubber with a clean stick dipped in maintenance washing liquid for maintenance.
- Wipe off so that maintenance washing liquid for maintenance will not remain.
- At this time, the discharge passage is cleaned automatically.

7 **Fill up the cap with cleaning solution for maintenance.**

- Suck maintenance solution into a dropper and fill up the cap with it. Fill up the cap with maintenance solution on the verge of overflow from the cap.



8 **Close the front cover, and press the ENTER key.**

9 **Press ▲ ▼ to set the time for the maintenance washing liquid to be left as it is, and press the ENTER key.**

- **Set value** : 1 to 99 minutes (Unit: minute)
- The maintenance washing liquid filled in the cap is absorbed.
- "Please Wait" will be displayed in the display until the time you set has elapsed.

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.

Washing the Ink Discharge Passage

Wash the ink discharge passage regularly(about once a week) to prevent the head nozzles from clogging due to ink coagulation inside the passage.

Important!
- Before washing the ink discharge passage, make sure that the maintenance washing liquid is set. If the maintenance washing liquid is not set, washing operation will not be conducted and the passage could be clogged.

1 **Press the FUNC1 (MENU) ➡ ▼ ➡ ENTER key in LOCAL.**

- MAINTENANCE MENU will be displayed.

2 **Press the ENTER key.**

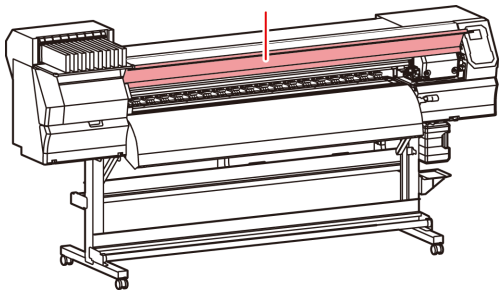
- "STATION" will be selected.

3 **Press ▼ twice, and press the ENTER key.**

- "DISWAY WASH" will be selected and the carriage will move onto the platen.
- Dry suction operation is performed repeatedly until the washing work is completed.

4 **Open the front cover.**

Front cover

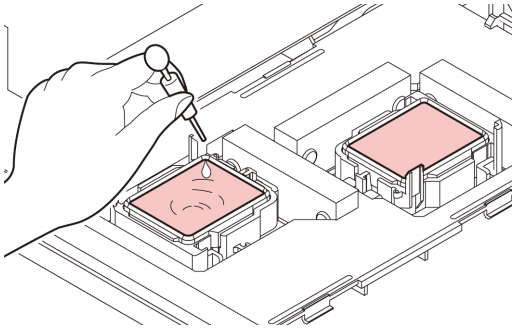


5 **Press the ENTER key.**

- Dry suction operation is performed repeatedly until the washing work is completed.

6 **Fill up the cap with cleaning solution for maintenance.**

- Suck maintenance solution into a dropper and fill up the cap with it. Fill up the cap with maintenance solution on the verge of overflow from the cap.



7 **Close the front cover and press the ENTER key.**

When the Machine Is Not Used for a Long Time

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.

Important!
- Use the machine with always turning "ON" the main power. The function preventing nozzle clogging operates automatically to protect the head of the nozzle.
- The head nozzle may result in nozzle clogging if the main power switch is left OFF for a long time.

Check the items on the right beforehand.

Is [NEAR END] or [INK END] displayed?

- The cleaning solution or ink is absorbed when the nozzles are washed.
  At this time, if the state of "no ink" or "almost no ink" is detected, the nozzle washing operation cannot start.
- Replace the cartridge with another from which the state of "almost no ink" or "no ink" is not detected.

- When the worning messages "Check waste ink" are indicated, check the waste ink tank, and then operate it, referring to P.4-14 "If a Waste Ink Tank Confirmation Message Appears" according to the situation.

1 **Press the FUNC1 (MENU) ➡ ▼ ➡ ENTER key in LOCAL.**

- MAINTENANCE MENU will be displayed.

2 **Press the ENTER key.**

- "STATION" will be selected.

3 **Press ▼ 3 times, and press the ENTER key.**

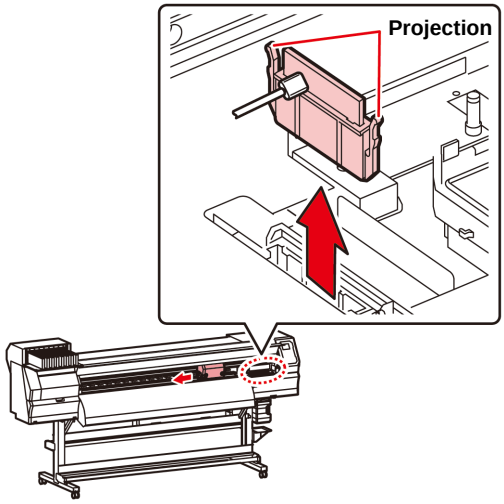
- "CUSTODY WASH" will be selected and the carriage will move onto the platen.

Important!

- Until wiper/ bracket cleaning is competed, "COMPLETED" is displayed on the screen. After the work up to the step 3 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 front 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. (SPC-0137) 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.



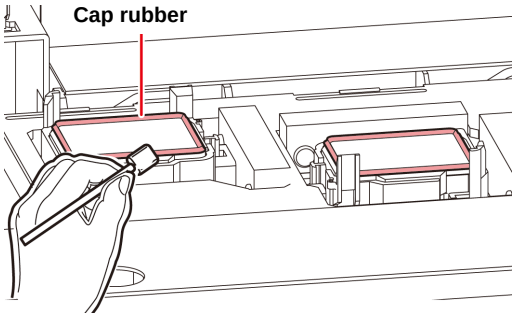
5 **Press the ENTER key.**

Important!

- Until wiper cleaning is competed, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the step 5 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.**

- Wipe off the ink sticking to the cap rubber with a clean stick dipped in maintenance solution for maintenance.
- Wipe off so that maintenance solution for maintenance will not remain.
- At this time, the discharge passage is cleaned automatically.



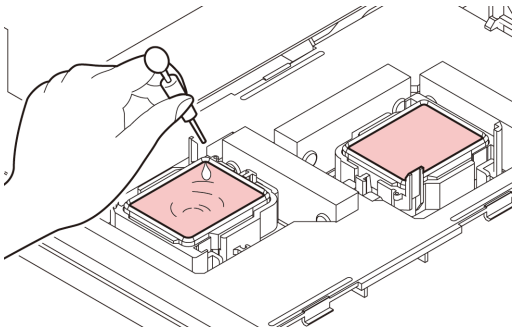
7 **Press the ENTER key.**

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.**

- Suck maintenance solution into a dropper and fill up the cap with it. Fill up the cap with maintenance solution on the verge of overflow from the cap.



9 **Close the front cover and press the ENTER key.**

10 **Press ▲ ▼ to set the time for the cleaning solution to be left as it is.**

- Set Value:1 to 99 min (by the unit of 1 min)

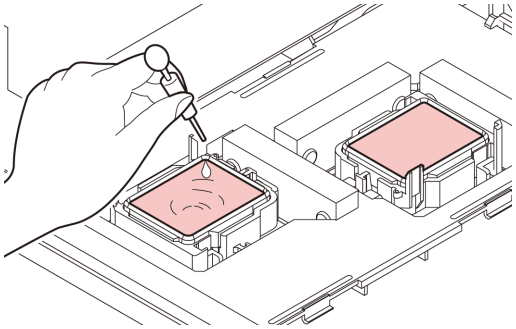
11 **Press the ENTER key.**

- The nozzles are washed.
- When the nozzles have been completely washed, the head moves to the maintenance position.

12 **Open the front cover.**

13 **Fill up the cap with cleaning solution for maintenance.**

- Suck maintenance solution into a dropper and fill up the cap with it. Fill up the cap with maintenance solution on the verge of overflow from the cap.



14 **Close the front cover and press the ENTER key.**

- After its initial operation, the machine returns to step2.

Cleaning the Ink Head and the Area around It

Because the ink 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 ink head.In doing so, never rub the nozzles of the head.

Tools required for cleaning	
• Clean stick (SPC-0527)	• Gloves
• Safety glasses	

Caution

- Be sure to wear the attached safety glasses and gloves when cleaning the area around the ink head.Otherwise, you may get ink in your eyes.
- The ink contains organic solvent.If you get the ink on your skin or in your eyes, wash it away with plenty of water immediately.

1 **Press the FUNC1 (MENU) ➡ ▼ ➡ ENTER key in LOCAL.**

- MAINTENANCE MENU will be displayed.

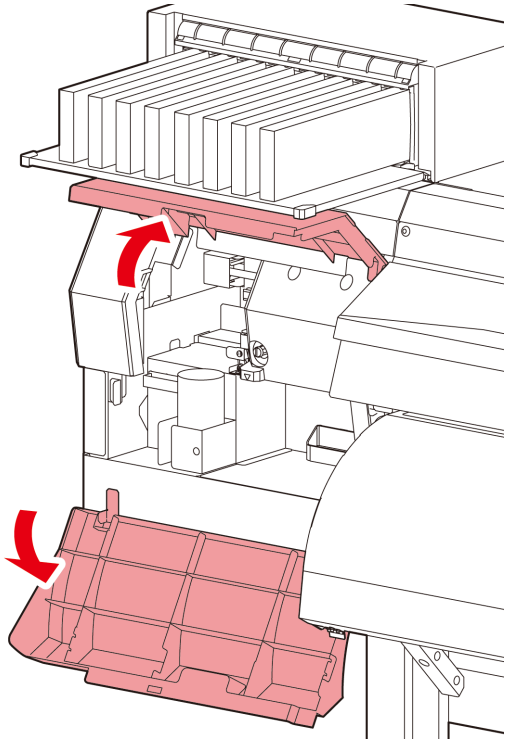
2 **Press the ENTER key twice.**

- “CARRIAGE OUT” will be selected.

3 **Press ▼, and press the ENTER key.**

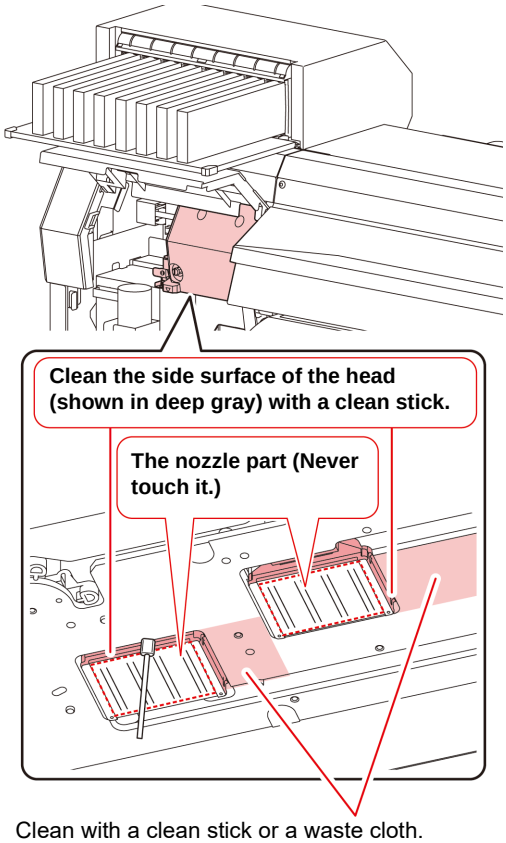
- “HEAD MAINTENANCE” will be selected and the carriage will move to the left end of this machine.

4 **Open the maintenance cover.**



5 **Use a clean stick soaked in maintenance cleaning fluid to wipe ink off the head surface or other surfaces.**

• Never rub the nozzles.



Clean with a clean stick or a waste cloth.

6 **Press the ENTER key after the cleaning.**

7 **Close the maintenance cover, and press the ENTER key.**

• After its initial operation, the machine returns to LOCAL.

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 (Interval)	The interval between each cleaning operation is set.
CLEANING (Type)	The cleaning type is set.

Important! • If the “Check waste ink” warning message is displayed, the operation set in the auto maintenance function is not carried out. Perform the operations of P.4-15 “Replace the waste ink tank with another” if required.
• When the power switch on the front of the machine is turned off, check the waste ink tank.

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 **Press the FUNC1 (MENU) ➡ ▼ ➡ ENTER key in LOCAL.**

• MAINTENANCE MENU will be displayed.

2 **Press ▼, and press the ENTER key.**

• “AUTO MAINTENANCE” will be selected.

3 **Press the ENTER key.**

• “REFRESH” will be selected.

4 **Press ▲ ▼ to set the refreshing interval, and press the ENTER key.**

• **Set value** : The set value will differ according to the ink type being used.

5 **Press the END/POWER key several times to end the setting.**

Setting the Cleaning Intervals and Type

The cleaning type and the interval between each cleaning operation are set.

1 **Press the FUNC1 (MENU) ➡▼➡ ENTER key in LOCAL.**
- MAINTENANCE MENU will be displayed.

2 **Press ▼, and press the ENTER key.**
- "AUTO MAINTENANCE" will be selected.

3 **Press the ▼ several times to select "Interval" or "Type", and press the ENTER key.**

4 **Press ▲ ▼ to select a set value, and press the ENTER key.**
- **Set value** : The set value will differ according to the ink type being used.
- **Set value of type** : SOFT/ NORMAL/ HARD

5 **Press the END/POWER key several times to endthe setting.**

Fill up Ink

Supplies ink to correct nozzle clogging.

1 **Press the FUNC1 (MENU) ➡▼➡ ENTER key in LOCAL.**
- MAINTENANCE MENU will be displayed.

2 **Press ▼ timestwice, and press the ENTER key.**
- "FILL UP INK" will be selected.

3 **Press ▲ ▼ to select the filling type.**
- **Standard** : When nozzle drop outs or nozzle missing parts that cannot be recovered by soft filling occurs (JV300Plus:FW version 2.3 or later, JV300:FW version 4.3 or later)
- **Soft** : Use this in cases where head cleaning will not achieve recovery, such as when multiple clogged nozzles occur or nozzle cluster dropout occurs.
- **Normal** : Use this if nozzle cluster dropout occurs in initial ink filling.
- **Hard** : Use this in cases where the dumper has become empty, such as in dumper replacement.

4 **Press the ENTER key.**
- If you selected "Standard" or "Soft" in step 4, a Select Fill Up Color screen will be displayed.
  If you selected "Normal" or "Hard", go to step 6.

5 **Press ▲ ▼ to select the filling color, and press the ENTER key.**

6 **Press the ENTER key.**
- Ink is supplied automatically.

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

Ink Maintenance

Shake the ink periodically. If you do not shake the ink periodically, the print quality may deteriorate rapidly. Shake about once a week. (☞P.1-10)
Please use our recommended ink cartridge.

Replacing consumables

Replacing the wiper

The wiper is consumable. When the display indicates the warning message “Replace a WIPER” it is necessary to check and replace the wiper, immediately replace the wiper with a new one.
Also, wipe ink sticking to the lower surface of the slider off.

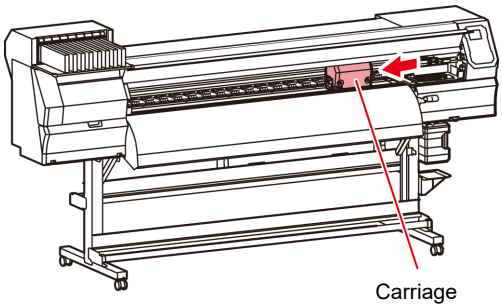
Important!
- When the warning message for replacing wiper is shown, confirm whether there is no damage and fuzz at the top edge of the wiper film. If there is no damage on the top edge of the wiper film, it is possible to use the wiper continuously without replacing it.
- A cleaning wiper is an option.Buy one through the dealer in your region or at our service office.

1 **Press the FUNC1 (MENU) ➡ ▼ ➡ ENTER key in LOCAL.**
- MAINTENANCE MENU will be displayed.

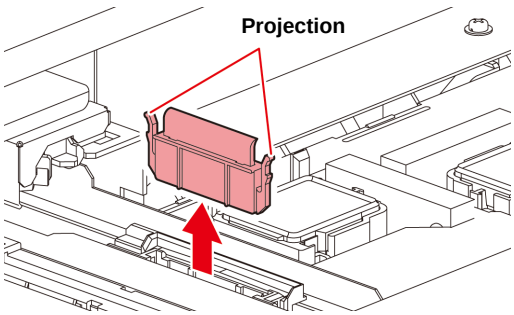
2 **Press the ENTER key.**
- “STATION” will be selected.

3 **Press ▼ 3 times, and press the ENTER key.**
- “WIPER EXCHANGE” will be selected and the number of times the wiper was used will be reset.

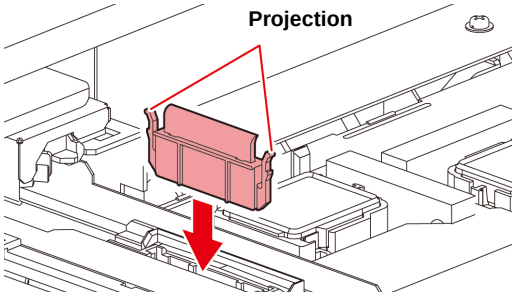
4 **Press the ENTER key.**
- The carriage will move onto the platen.



5 **Remove the wiper.**
- Pull out the wiper by holding the projections at its both ends.



6 **Insert a new wiper.**
- Insert the wiper by holding the projections at its both ends.



7 **Close the front cover, and press the ENTER key.**
- After its initial operation, the machine returns to LOCAL.

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.This machine counts the accumulated amount of discharged ink. 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.)

- The message is displayed when it reaches 80% (1.6L) of the 2L tank.

Confirmation Message in LOCAL

1 **The warning message “Check waste ink” is displayed.**

2 **Check the state of the waste ink tank**
- When it is different from the actual amount, press [▲][▼] and correct.
- When you correct (80%), press the [ENTER] key to return to LOCAL.
- When you replace (disposal) and clear the count, perform the procedures in “Replace the waste ink tank with another”. (☞ P.4-15)

Important!
- Check the waste ink level in the waste ink tank frequently.Continuing to use the product without disposing of the waste ink may result in waste ink overflowing from the waste ink tank.

Replace the waste ink tank with another

1 **The warning message “Check waste ink” is displayed.**

2 **Press the FUNC1 (MENU) ➡ ▼ ➡ ENTER key in LOCAL.**

- MAINTENANCE MENU will be displayed.

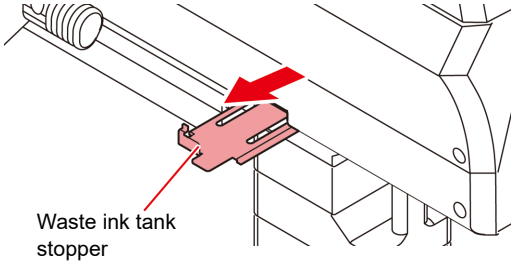
3 **Press ▲ ▼ to select “INK TANK EXGHANGE”, and press the ENTER key.**

4 **If the amount of waste ink needs to be adjusted, press the ENTER key.**

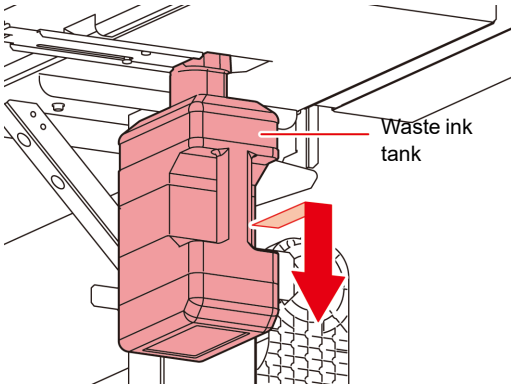
- Compare the amount of waste ink shown on the display and the amount you visually confirmed. If there is no major problem with the value shown on the display, instead of the [ENTER] key, press the [END] key and proceed to Step 6.

5 **Press ▲ ▼ to adjust the level, and press the ENTER key.**

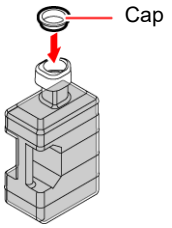
6 **Pull the waste ink tank stopper to open to the front.**



7 **Pull it frontward to remove by holding the waste ink tank handle.**

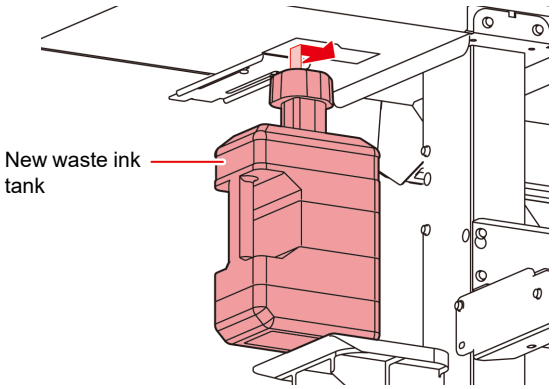


- Put a cap on the waste ink tank removed.



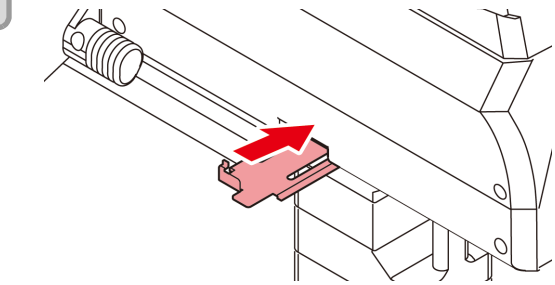
8 **Replace the waste ink tank.**

(1) Prepare a new waste ink tank (SPC-0246).
(2) Insert the waste ink tank by holding a handle of the tank.



- Waste ink is equivalent to waste oil of industrial waste. Request an industrial waste disposal company for disposal of waste ink.

9 **Close the waste ink tank stopper.**



10 **Press the ENTER key.**

- The ink discharging amount that is controlled by the machine is reset and the message is cancelled.

Replacing the waste ink tank before the waste ink tank confirmation message is displayed

if you replace the waste ink tank before the waste ink tank confirmation message is displayed (before the 2L tank is 80% (1.6L) full), set the waste ink information to 0% in the Information menu.

1 **Perform steps 6 through 9 in "Replace the waste ink tank with another" (☞P.4-15) to empty the waste ink tank.**

2 **Press the [FUNC1] (MENU) ➡[▼]➡ [ENTER] key in LOCAL.**

- MAINTENANCE MENU will be displayed.

3 **Press [▼] 4 times, and press the Press the [ENTER] key.**

- "INK TANK EXGHANGE" will be selected.

4 **Waste ink tank information is displayed.**

5 **Press [▲][▼] to adjust the level, and press the [ENTER] key.**

- The reset screen for the waste ink tank amount will be displayed.

6 **Press the [ENTER] key.**

- The waste ink tank amount that is managed in this machine will be reset.

Replacing the Cutter Blade

The cutter blade is consumable.When the cutter blade gets dull, replace it with a new one (SPA-0107).

Caution

- Do not touch the cutter blade, which is very sharp.
- 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.

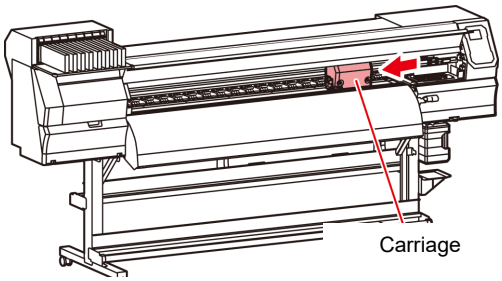
- When replacing the cutter blade, it is recommended to place a sheet of paper under the cutter blade. This will help pick up the cutter blade if it drops.

1 **Press the [FUNC1] (MENU) ➡[▼]➡ [ENTER] key in LOCAL.**

- MAINTENANCE MENU will be displayed.

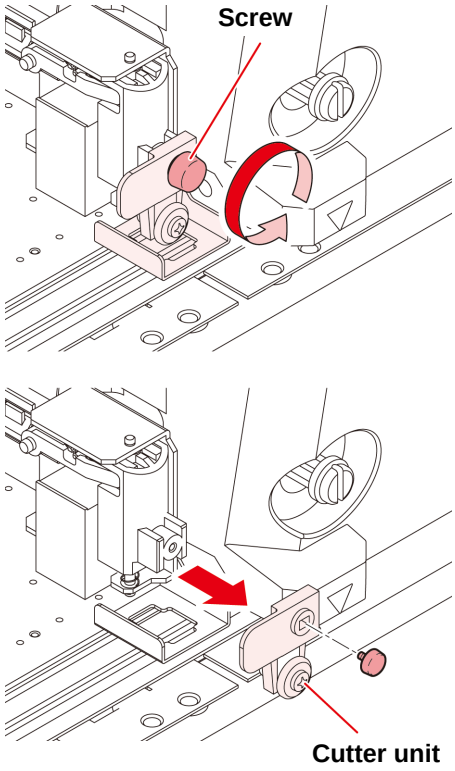
2 **Press the [ENTER] key twice, and open the front cover.**

- The carriage moves onto the platen.



3 **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.



4 **Close the FRONT cover.**

5 **Press the [ENTER] key.**

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 5-2
Power does not turn on 5-2
The machine does not start printing 5-2
Media get jammed / media is soiled 5-2
Image quality is poor 5-3
Nozzle is clogged 5-3
Ink cartridge warning appears 5-4
When the ink leakage occurs 5-4
Warning / Error Messages 5-5
Warning messages..... 5-5
Error messages 5-7

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 local distributor, our sales office, or service center.

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 switch located on the front of machine "ON" ? → **No** → Turn on the power switch 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 machine.

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 cartridge 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** → Re-load the media on the machine. (☞ P.2-5)

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 local distributor, our sales office, or service center.

Phenomenon	Measures
White lines / blur / dark stripes (in the direction of travel of the heads)	**(1)** Execute the head cleaning. (☞ P.2-11) **(2)** Perform maintenance of the inside of the station. (☞ P.4-7) **(3)** Execute the [FEED COMP.] function. (☞ P.3-5) **(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 [FEED COMP.] function. (☞ P.3-5)
Disagreement in print positions between outward trip and homeward trip	**(1)** Execute the [DROP POSITION] function. (☞ P.3-6)
Ink drops falling on media during printing	**(1)** Execute the wiper cleaning. (☞ P.4-7) **(2)** Execute the ink cap cleaning. (☞ P.4-7) **(3)** Clean around the head. (☞ P.4-11) **(4)** Execute the head cleaning [NORMAL]. (☞ P.2-11) **(5)** Set the INTERVAL WIPING operation. (☞ P.3-9)

Nozzle is clogged

When nozzle clogging is not dissolved even after the head cleaning referring to P.2-11, make sure the following operations.

- **Wash the head nozzle by the operations of P.4-8.**
- **Wash the head nozzle surface by the operations of P.4-11.**

Ink cartridge warning appears

If an ink cartridge trouble is detected, the cartridge LED “red” is lit, and a warning message appears.
None of printing, cleaning and all the other operations that use ink is available.
In this case, replace the ink cartridge in question immediately.

Important!

- Once cartridge trouble is displayed, do not leave the ink cartridge 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 cartridge trouble

The contents of cartridge error are confirmable by the following operations.

1. **Press the ENTER key in LOCAL.**
2. **Press the ENTER key.**

When the ink leakage occurs

If the ink leakage occurs, unplug the power plug to turn off the main power switch, and contact our service office or distributor.

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
INVAILD OPERATION :MEDIA UNDETECT	Operation cannot be performed because no media is detected.	• Execute after media is detected.
INVAILD OPERATION :MOTOR POWER OFF	The motor is OFF after the cover was opened etc.	• Return to LOCAL and execute the operation after completion of initialization.
INVAILD OPERATION INK ERROR	An ink error occurred.	• Execute the operation after replacing with a new ink cartridge.
INVAILD OPERATION COVER OPEN	The front cover or the maintenance cover is opened.	• Execute the operation after closing the cover.
INVAILD OPERATION DATA REMAIN	Data was received.	• Execute the operation after executing data clear.(☞ P.2-13)

Message displayed in LOCAL

Message	Cause	Solution
Can't print/cartridge	Multiple ink errors (unusable ink) have occurred, making it impossible to feed ink (printing and cleaning, etc.).	Replace with a new ink cartridge.
Check waste ink	The waste ink tank count has exceeded the prescribed amount.	Check the amount of waste ink in the waste ink tank. Conduct maintenance and waste ink tank replacement, and reset the amount of waste ink.
Replace WIPER	The used count of wiper has exceeded the prescribed number.	Execute maintenance, station maintenance and wiper exchange and replace the wiper.
NO MEDIA	No media is set. Or, the sensor is faulty.	Set the media. If the same error message still appears after setting the media, contact your local distributor, our sales office, or service center.
DATA REMAIN	Print data is received in LOCAL.	Shift to REMOTE and execute printing. Or, execute data clear and cancel printing.

Ink Error

Ink error is displayed also in the local guidance. (☞ P.3-21)

Message	Cause	Solution
WRONG INK IC	The ink IC chip of the ink cartridge cannot be read normally.	• Remove the cartridge generating the warning once and install it again. • When displaying again, contact your local distributor, our sales office, or service center.
INK TYPE	The ink of the ink cartridge is different in type from the ink currently supplied.	• Check the ink type of the cartridge generating the warning.
INK COLOR	The ink of the ink cartridge is different in color from the ink currently supplied.	• Check the ink color of the cartridge generating the warning.
WRONG CARTRIDGE	An error occurred in the ink IC chip information of the ink cartridge.	• Check the cartridge generating the warning.Make sure there is no nozzle clogging
NO CARTRIDGE	An ink cartridge has not been installed in the slot.	• Install an appropriate cartridge in the slot generating the warning.
INK END	The ink of the ink cartridge has been completely used up.	• Replace the cartridge generating the warning with a new one.
INK NEAR END	There is only a little bit of ink left in the ink cartridge.	• The ink will soon be used up. Be careful.
Expiration	The ink has expired.	• Replace with new ink or use up as soon as possible. It is possible to print.
Expiration:1MONTH	One month has passed since the ink expired.	• Replace with new ink or use up as soon as possible. It is possible to print.
Expiration:2MONTH	Two months have passed since the ink expired.	• Replace with new ink. Cannot print.
ERROR 63c INK REMAIN ZERO	The ink remaining has become 0. (Only when ink end / 4 color ink set)	• Replace the cartridge with a new one.

Error messages

When an error message is displayed, eliminate the error according to the chart below.
When displaying again, contact your local distributor, our sales office, or service center.

Message	Cause	Solution
ERROR 122 CHECK:SDRAM	SDRAM is defective.	• Turn off the power to the machine and turn it on after a while. • When displaying again, contact your local distributor, our sales office, or service center.
ERROR 128 HDC FIFO OVER	Head control circuit board is defective.	
ERROR 128 HDC FIFO UNDER		
ERROR 129 BATTERY EXCHANGE	The battery life end of the internal clock is detected.	• Contact your local distributor, our sales office, or service center.
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. • When displaying again, contact your local distributor, our sales office, or service center.
ERROR 146 E-LOG SEQ	Sequential number abnormality of the event log occurred.	
ERROR 151 Main PCB V1R2	Error occurs in the power supply system of the main board.	
ERROR 152 Main PCB V2R5		
ERROR 153 Main PCB V3R3		
ERROR 154 Main PCB V05		
ERROR 157 Main PCB VTT		
ERROR 16e Main PCB V3R3B		
ERROR 15f HEAD DRIVE HOT		
ERROR 171 NEW HEAD CONNECT		
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 18a Main PCB V_CORE	An error occurred in the main PCB .	

Message	Cause	Solution
ERROR 18c Main PCB V12	An error occurred in the main PCB .	• Turn off the power to the machine and turn it on after a while. • When displaying again, contact your local distributor, our sales office, or service center.
ERROR 190 Main PCB V42-1		
ERROR 192 COMIO PCB V1R2	An error occurred in the COM16/32IO PCB .	
ERROR 193 COMIO PCB V2R5		
ERROR 194 COMIO PCB V3R3		
ERROR 195 COMIO PCB V24		
ERROR 1a0 SLDR2H PCB V1R2	An error occurred in the SLIDER2H PCB .	
ERROR 1a6 SLDR2H PCB V2R5		
ERROR 1a7 SLDR2H PCB V3R3		
ERROR 1a8 SLDR2H PCB V5		
ERROR 1a9 SLDR2H PCB V42		
ERROR 1e6 Size Shortage	PRAM board connection failure (including unconnected), Or breakdown. * Online printing cannot be performed when this error occurs. For other functions including maintenance function It can be used.	• Turn off the power to the machine and turn it on after a while. • When displaying again, contact your local distributor, our sales office, or service center.
ERROR 201 COMMAND ERROR	The machine received some data other than print data. Or, an error occurred in the transmitted print data.	• Securely connect the interface cable in position. • Use an interface cable conforming to the specifications.
ERROR 202 PARAMETER ERROR	An error occurred in the transmitted print data.	
ERROR 304 USB INIT ERR	An error occurred in the communication of USB.	• Turn off the power on the machine and turn it on after a while. • When displaying again, contact your local distributor, our sales office, or service center.
ERROR 305 USB TIME OUT		
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.	

Message	Cause	Solution
ERROR 403 X CURRENT	An error due to an excessive current of the X motor was detected.	• Turn off the power on the machine and turn it on after a while. • When displaying again, contact your local distributor, our sales office, or service center.
ERROR 404 Y CURRENT	An error due to an excessive current of the Y motor was detected.	
ERROR 505 MEDIA JAM	The media jam occurs.	• Remove the media and reset it. • When using Plus series: After a media jam occurs and printing stops, the head automatically returns to the station. After that, the following message is displayed. “Media jam occurred. Operation stopped. Media jam cause damage to the head. Please reset the media.”
ERROR 509 HDC POSCNT	An error occurred in the control position.	• Turn off the power on the machine and turn it on after a while. • When displaying again, contact your local distributor, our sales office, or service center.
ERROR 50a Y ORIGIN	Y-origin could not be detected.	
ERROR 50f L-SCALE BLACK	Abnormal linear scale.	
ERROR 529 LEnc.Count HPC[____]		
ERROR 52a LEnc.Count HDC[____]		
ERROR 52c MEDIA WIDTH SENSOR	The media width could not be correctly read.	• Check the media set position. (☞ P.2-4) • Clean the media sensor. (☞ P.4-3) • Turn off the power on the machine and turn it on after a while.
ERROR 516 MEDIA SET POSITION R	The media is set outside the proper area.	• Check the media set position. (☞ P.2-5)
ERROR 528 PUMP MOTOR SENSOR	Pump sensor detection error	• Turn off the power on the machine and turn it on after a while.When displaying again, contact your local distributor, our sales office, or service center.
ERROR 602 CARTRIDGE END	Ink end (cannot be used, can only be used when cleaning with the 4-color ink set)	• Replace with new ink.
ERROR 608 WRONG INK IC	The ink IC chip for ink cartridge cannot be correctly read.	• Make sure that the cartridge is correctly inserted. • Reinsert the cartridge. • Turn off the power on the machine and turn it on after a while.When displaying again, contact your local distributor, our sales office, or service center.
ERROR 627 RE-INSERT CARTRIDGE	There is a slot in which the cartridge has not been inserted more than a certain time.	• Set a cartridge.
ERROR 628 WRONG INK CARTRIDGE	A problem has occurred in the ink IC chip information for ink cartridge. The used count has exceeded the prescribed value.	• Make sure there is no nozzle clogging (especially for the white ink).
ERROR 63c INK REMAIN ZERO	Remaining ink is 0 in the cartridge (ink end/ only when the 4-color ink set is used)?	• Replace with new ink.

Message	Cause	Solution
ERROR 901 INVAILD OPERATION	Due to a certain error, the function cannot be performed.	• Return to the local screen, check the error status and take a countermeasure.
ERROR 902 DATA REMAIN	There remains received data that has not yet been printed.	• Execute the data clear function. (☞ P.2-13)
ERROR 90d NO HEAD SELECT	An error occurred in the mounted heads.	• Turn off the power on the machine and turn it on after a while. • When displaying again, contact your local distributor, our sales office, or service center.
ERROR 90f PRINT AREA SHORT	The media width or the media length required for printing is not enough.	• Change the media to the one with enough width or length. • When the media width narrows because the origin moved, slide the origin to the right to widen the effective media width.
ERROR 04 PARAM ROM	An error occurred in the main PCB FROM.	• Turn off the power on the machine and turn it on after a while. • When displaying again, contact your local distributor, our sales office, or service center.

SYSTEM HALT

Message	Solution
SYSTEM HALT (*) 000 : MESSAGE	• Turn off the power on the machine and turn it on after a while. When displaying again, check the number and contact your local distributor, our sales office, or service center. (“000” is the error No.)
SYSTEM HALT (*) 406 : WIPER ORG	• Perform cleaning around the wiper. • Turn off the power on the machine and turn it on after a while. When displaying again, check the number and contact your local distributor, our sales office, or service center.

Chapter 6
Appendix

This chapter

contains the lists of the specifications and functions of this machine.

Specifications 6-2
Machine specifications 6-2
Ink specifications 6-3
Setting orders of ink cartridges 6-4
LICENSE Library 6-5
Sheet for inquiry 6-6

Specifications

Machine specifications

Item		JV300-130 A	JV300-160 A	JV300-130 A Plus	JV300-160 A Plus
Print head	Method	Drop-on-demand piezoelectric print heads			
	Specification	2 head staggered			
Printing mode (scan x feed)		360×360dpi/ 540×360dpi/ 540×720dpi/ 720×1080dpi/ 720×1440dpi/ 1440x1440dpi			
Usable inks		Sublimation dye ink (Sb) ：6-colors (Y, M, Bl, K or Dk, Lbl, Lm)			
Ink supply		Supplying from ink cartridges through tubes.Ink cartridge replacement type : Supplying by Toggle switch over with 2 cartridges/color (4-colors ink set)			
Capacity of ink cartridge		Y, M, Bl, K, Dk, Lbl, Lm : 440cc cartridge			
Usable media		Photo-paper , Synthetic paper , Duplex paper			
Max. printing width		1361mm (53.6in)	1610mm (63.4in)	1361mm (53.6in)	1610mm (63.4in)
Roll Media size	Maximum	1371mm (54.0in)	1620mm (63.8in)	1371mm (54.0in)	1620mm (63.8in)
	Minimum	210mm (8.3in)			
	Thickness	1.0mm or less (0.04in or less)			
	Printing surface	Side facing outward			
	Roll outside diameter *1	Paper media : Φ250mm or less (Φ9.8in or less) Other media : Φ210mm or less (Φ8.3in or less)			
	Roll weight *1, *2	40kg or less (88.2lb or less)		45kg(99.2 lb) or less	
	Roll inside diameter	2 or 3 inches			
	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	1371mm (54.0in)	1620mm (63.8in)	1371mm (54.0in)	1620mm (63.8in)
	Minimum	210mm (8.3in)			
Margin	Leaf media	Left end and right end : 15 mm (0.6 in) (Default) Front :120 mm (4.7 in)　Rear : 150 mm (5.9 in)			
	Roll media	Left end and right end : 15 mm (0.6 in) (Default) Front :120 mm (4.7 in)　Rear : 150 mm (5.9 in)			
Distance accuracy	Absolute accuracy	Whichever the larger one of ± 0.3 mm (0.01 in) or ± 0.3% of the designated			
	Reproducibility	Whichever the larger one of ± 0.2 mm (0.008 in) or ± 0.1% of the designated			
Perpendicularity		± 0.5 mm / 1000 mm (± 0.02 in / 39.4 in)			
Media skew		5 mm or less / 10 m (0.2 in or less / 32.8 ft)			
Head height adjustment		Select for manual 3-stage (2.0/2.5/3.0) + 1 mm (0.04 in) or + 2 mm (0.08 in) at installation. Base height can be raised.			
Cutting of media		Cutting of Y direction by the head cutter. Cutting accuracy (steps) : 0.5 mm or less. (0.02 in or less.)			
Waste ink tank		Bottle type (2,000 cc)			
Interface	Print data transfer	USB 2.0		USB 2.0 、Ethernet 1000BASE-T	
	E-mail function	Ethernet 10 BASE-T / 100 BASE-TX / 1000BASE-T			
Command		MRL- V			
Noise	during standby	Less than 58 dB (A) (FAST-A, Front & Rear & Left & Right 1 m (3.3ft))			
	during continuous printing *3	Less than 65 dB (A)			
	during discontinuous printing	Less than 70 dB (A)			

Item		JV300-130 A	JV300-160 A	JV300-130 A Plus	JV300-160 A Plus
Safety Standard		VCCI-Class A, FCC-Class A, UL 60950, CE Marking (EMC,Low Voltage Directive,Machinery Directive, RoHS Directive), CB Report, IEC 62368-1 ETL, EAC mark, RoHS			
Power		AC100 - 120V/220 - 240V ±10% x2 50/60Hz ± 1Hz			
Power consumption		1440W x 2 or less (AC 100 - 120V)			
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 (± 50 °F / h or less)			
	Dust	Equivalent to normal office level			
	Highest operation height	2000 m (6561.7 ft)			
Weight		170 kg (374.8lb)	200 kg (440.9lb)	170 kg (374.8lb)	200 kg (440.9lb)
Outside dimensions	Width	2525mm (99.4in)	2775mm (109.2in)	2525mm (99.4in)	2775mm (109.2in)
	Depth	700mm (27.6in)			
	Height	1392 mm (54.8in)			

*1. It is outside diameter and weight after take-up media.
*2. Without deflection of the roll when it is retained at both ends.
*3. Operating Condition: Full load Measuring Method: According to clause 1.7.4.2 of Machinery Directive 2006/42/EC

Ink specifications

Item		Sublimation dye ink
Supply		Dedicated sublimation dye ink cartridge
Color		Black ink cartridge (K) Blue ink cartridge (Bl) Magenta ink cartridge (M) Yellow ink cartridge (Y) Light blue ink cartridge (Lbl) Light magenta ink cartridge (Lm) Deep black ink cartridge (Dk)
Ink capacity		440cc per cartridge
Shelf life		The period is printed on the ink cartridge. Within three months after opening the package even in the available period.
Storage temperature	Storage	10 to 35°C (Average daily temperature) (50 to 95°F (Average daily temperature)) Be sure to keep a vessel in the airtight condition. Be sure to keep a vessel in a dry, well-ventilated, cool and dark location.
	Transportation	0 to 40°C (32 to 104°F) Avoid the condition lower than 0 °C and higher than 40 °C. (Avoid the condition lower than 32 °F and higher than 104 °F.)

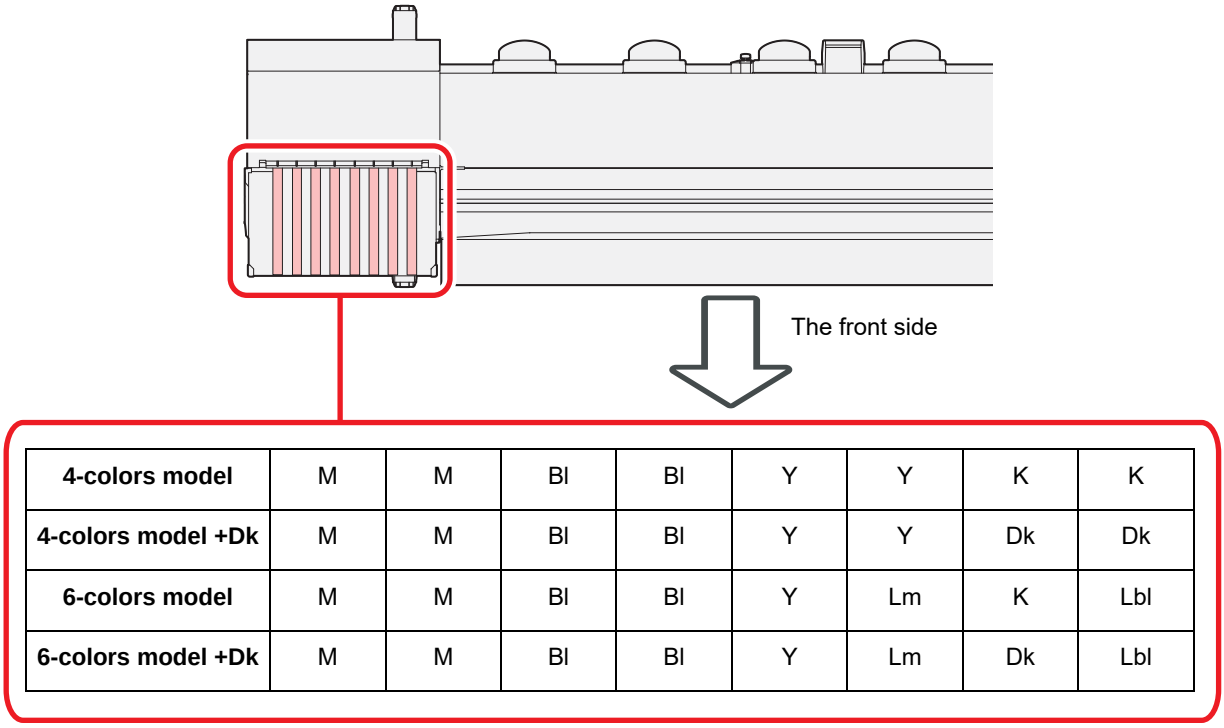
Important!

- Do not disassemble ink cartridges and do not refill them with ink.
- Ink could freeze if kept in a cold place for an extended period.
- When aqueous ink is used, if the ink freezes, the quality is changed and the ink becomes unusable. Store the ink in an environment that will not freeze the ink.

Setting orders of ink cartridges

The setting value and the setting orders of the ink cartridges differ depending on the ink type you use.

- Set the ink cartridge according to the cartridge label under the ink station.



4-colors model	M	M	Bl	Bl	Y	Y	K	K
4-colors model +Dk	M	M	Bl	Bl	Y	Y	Dk	Dk
6-colors model	M	M	Bl	Bl	Y	Lm	K	Lbl
6-colors model +Dk	M	M	Bl	Bl	Y	Lm	Dk	Lbl

LICENSE Library

Mimaki printer Firmware

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This product contain open source software listed in the tables below.

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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.3-20)

JV300-130/160 A, JV300-130/160 A Plus Operation Manual

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

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KM

FW : 4.30 (JV300 A)

2.30 (JV300 A Plus)

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