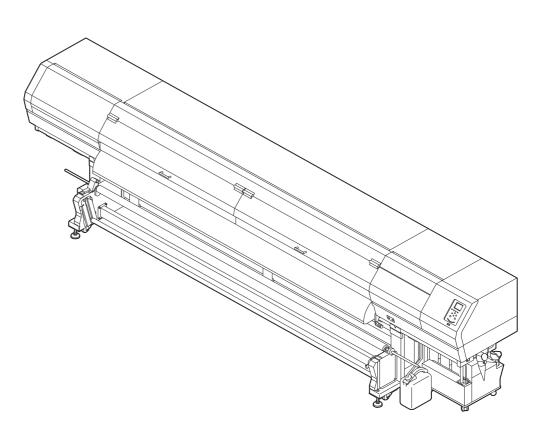


COLOR INKJET PRINTER

SWJ-320EA

OPERATION MANUAL





https://mimaki.com/

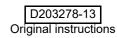


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CAUTION

DISCLAIMER OF WARRANTY

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

Requests

• This Operation manual has been carefully prepared for your easy understanding.

However, please do not hesitate to contact a distributor in your district or our office if you have any inquiry.

• Description contained in this Operation manual are subject to change without notice for improvement.

FCC Statement (USA)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the operation manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which cause the user will be required to correct the interference at his own expense.



 In the case where MIMAKI-recommended cable is not used for connection of this machine, limits provided by FCC rules can be exceeded. To prevent this, use of MIMAKIrecommended cable is essential for the connection of this machine.

Interference to televisions and radios

The product described in this manual generates high frequency when operating.

The product can interfere with radios and televisions if set up or commissioned under improper conditions.

The product is not guaranteed against any damage to specific-purpose radio and televisions.

The product's interference with your radio or television will be checked by turning on/off the power button of the product.

In the event that the product is the cause of interference, try to eliminate it by taking one of the following corrective measures or taking some of them in combination.

- Change the orientation of the antenna of the television set or radio to find a position without reception difficulty.
- Separate the television set or radio from this product.
- Plug the power cord of this product into an outlet which is isolated from power circuits connected to the television set or radio.

Foreword

Congratulations on your purchase of MIMAKI color ink jet printer "SWJ-320EA" .

"SWJ-320EA" is a color inkjet printer that can print with solvent ink realizing high speed and high image quality.

About usable ink

Usable ink for this machine is CS100/CS200 ink (four-color model).

 4-colors version : Each of Cyan, Magenta, Yellow and Black color ink cartridge are useable.

On This Operation manual

- This Operation manual is describing the operations and maintenance of "Color inkjet printer SWJ-320EA" (called as this machine hereafter)
- Read this Operation manual carefully and understand them thoroughly to use.
- It is also necessary to keep this Operation manual on hand.
- This Operation manual has been carefully prepared for your easy understanding, however, please do not hesitate to contact a distributor in your district or our office if you have any inquiry.
- Descriptions contained in this Operation manual are subject to change without any notice for improvement.
- You can also download the latest manual from our website.

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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
Warning	Failure to observe the instructions given with this symbol can result in death or serious injuries to personnel. Be sure to read it carefully and use it properly.
Caution	Failure to observe the instructions given with this symbol can result in injuries to personnel or damage to property.
(Important!)	Important notes in use of this machine are given with this symbol. Understand the notes thoroughly to operate the machine properly.
Ť	Useful information is given with this symbol. Refer to the information to operate the machine properly.
(the second seco	Indicates the reference page for related contents.
<u>/</u>	The symbol " \triangle " 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



• Do not use the machine in a poorly ventilated room or a closed room.

- Avoid locating the machine in a damp environment. Do not splash water onto the machine. Use in such an environment can give rise to fire, electric shocks or breakdown of the machine.
- Use it with the displayed power supply specifications. The power-supply voltage of this machine shall be single-phase 200 to 240 Vac 29A and less. (You cannot use this machine in the 100V system.)
- Use of the machine under an abnormal condition where it produces smoke or strange smell can result in fire or electric shocks. If such an abnormality is found, be sure to turn off the power button immediately and unplug the cable from the wall outlet. Check first that the machine no longer produces smoke, and then contact your distributor or a sales office of MIMAKI for repair. Never repair your machine and ink bottle by yourself since it is very dangerous for you to do so.
- Never disassemble or remodel the main unit of the machine or the ink bottle. Disassembly or remodeling can result in an electric shock or breakdown of the machine.
- Take care that no dust or dirt sticks to platen. Dust and dirt sticking heaters can cause fire.
- Do not place your fingers or other parts of body close to dangerous moving parts. There is a danger of injury.
- In case of ink leakage, please turn off the main power, unplug the power cable and call for service to our service or dealer.



• The main power circuit breaker should be set ON only by personnel with sufficient knowledge about operations of this unit.

· Keep children away from this machine.

Disposition of this machine

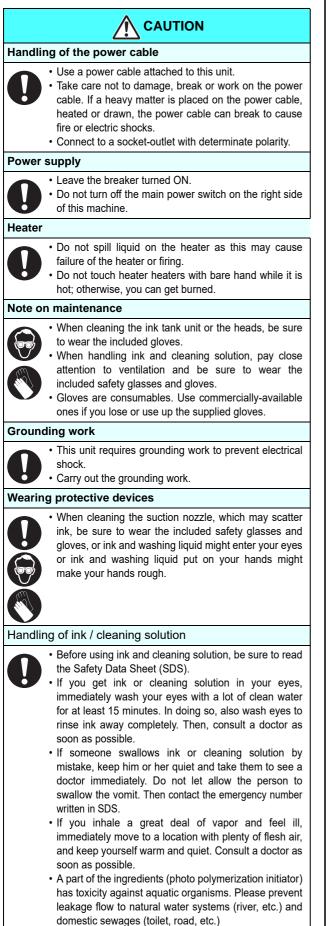


X

• When discarding this machine, request the treatment of it for an industrial waste disposal contractor.

• Treat it properly in compliance with regulation in the local area.

Precautions in Use



• There are precautionary notes on ink on the ink bottle. Read it carefully and fully understand it before using it.

About hot parts



 Some parts outside the unit will have a very high temperature. A hightemperature caution label is placed on such parts. Do not touch the parts with the caution label placed and their vicinity, or burn injury may occur.

• When it is unavoidable to touch hot parts, be sure to wear heat-insulating gloves to protect your hands.

About cleaning



 After using the unit long time, foreign materials and dust may be gathered on the conductive and insulating parts, causing electric leakage.Periodically clean such parts.

- For cleaning, do not use compressed air because it scatters foreign materials and dust, which may cause malfunctions when put inside the conductive parts.Be sure to use vacuum cleaner for cleaning of foreign materials and dust
- Do not use the unit in a place where there is a possibility of being wet, or electrical leakage may occur.
- Electrical leakage, if it should occur, may lead to electrical shock of personnel or fire.
- In order to prevent accidents from occurring, be sure to carry out periodic inspections and replacement of timechange components.

About firing and smoking



 Touching hot parts such as the LED UV unit with combustible materials may cause firing and/or smoking.Leaving combustible materials under the UV LED unit for a couple minutes may also cause firing and/or smoking.



After the unit is used long time, foreign materials or dust gathered on the stabilizer or other parts may cause electrical leakage or insulation deterioration may cause firing and/or smoking.Periodically clean the parts and measure the insulation resistance, replacing deteriorated parts, if any.

- After the unit is used long time, screws, etc. on the conductive parts may be loosened, causing firing and/ or smoking.Periodically tighten such screws.
- Because this unit is not of explosion proof type,do not use it in an ambience with hazardous materials, or a possibility of explosion may arise.
- If abnormalities of the unit such as a strange odor, a smoking or a spark burn are found, turn the power off and call Mimaki immediately.

CAUTIONS and NOTES

Warning

Handling of ink bottles

- Use the SWJ-320EA genuine ink. Remember that the user shall be filled for a repair to correct any damage resulting from the use of ink other than the exclusive type.
- The machine does not operate with any ink other than the SWJ-320EA genuine ink.
- Do not use the SWJ-320EA genuine ink with other printers, as doing so may cause damage to such machines.
- Never refill the ink bottle with ink. Refilled ink bottle can cause a trouble. Remember that MIMAKI assumes no responsibility for any damage caused by the use of the ink bottle replenished with ink.
- If the ink bottle is moved from a cold place to a warm place, leave it in the room temperature for three hours or more before using it.
- Open the ink bottle just before using it. If it is opened and left for an extended period of time, normal printing performance of the machine may not be ensured.
- Make sure to store ink bottles in a cool and dark place.
- Store ink bottles and waste ink tank in a place that is out of the reach of children.
- Be sure to thoroughly consume the ink in the ink bottle, once it is opened, within three months. If an extended period of time has passed away after opening the ink bottle, printing quality would be poor.
- Do not knock or shake the ink bottle violently. It may cause ink leaks or nozzle clogging due to excessive air in the ink.
- Do not touch or stain the contacts of the IC chip, as doing so may cause damage to the print circuit board.
- Waste ink is equivalent to waste oil of industrial waste. Request an industrial waste disposal company for disposal of waste ink.
- Do not discard to natural water systems (river, lake, etc.) and domestic sewages (toilet, washstand, road, etc.).

Front cover and lever

· Never open the front cover or raise the lever during printing.

Protection of media from dust

- Store media in a bag. Wiping off dust accumulated on media will adversely affect the media due to static electricity.
- When leaving the workshop after the working hours, do not leave any media on the roll hanger. If any media is left on the roll hanger, it can get dusty.

Notes on maintenance

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

Warning

Handling of media

- Use media recommended by MIMAKI to ensure reliable, highquality printing.
- Set the temperature of the heater according to the type and characteristics of the media used. Automatic temperature setting can be made on the operation panel by setting the profile on the dedicated RIP. For setting on the RIP, refer to the instruction manual for your RIP.
- Pay attention to the expansion and contraction of the media. Do not use media immediately after unpacking. The media can be affected by the room temperature and humidity, and thus it may expand and contract. The media have to be left in the atmosphere in which they are to be used for 30 minutes or more after unpacked.
- Do not use curled media. The use of curled media can not only cause a media jam but also affect print quality.
- Straighten the sheet of media, if significantly curled, before using it for printing. If a regular-sized coated sheet of media is rolled and stored, the coated side has to face outside.
- · Do not leave the media with the heater ON for a long time.

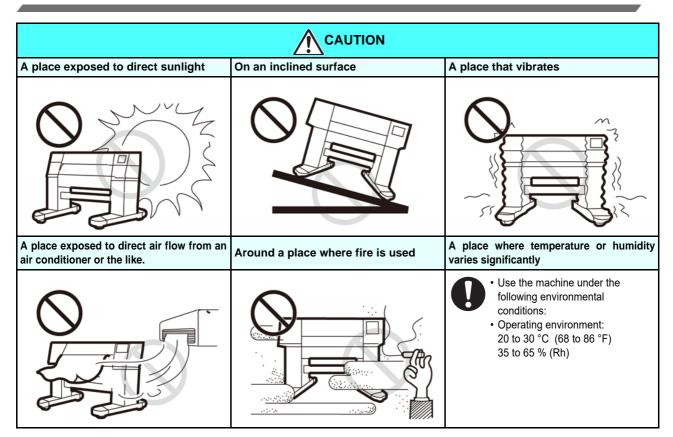
Periodic replacement parts

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

Disposition of this machine

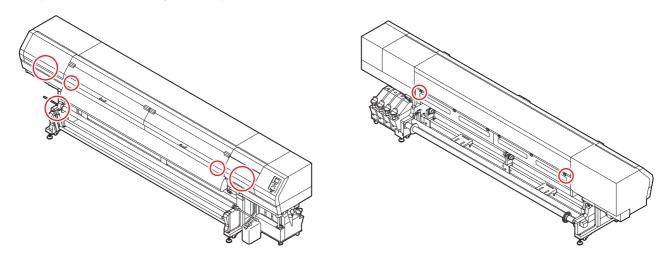
- When discarding this machine, request the treatment of it for an industrial waste disposal contractor.
- Treat it properly in compliance with regulation in the local area.

Cautions on Installation



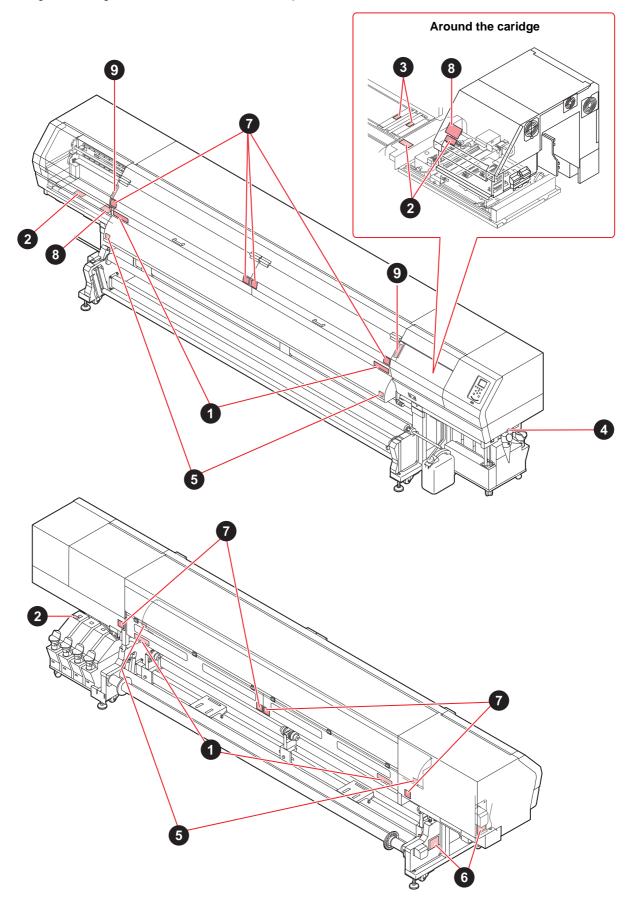
Safety interlock

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	M905811	
2	M903330	
3	M906144	
4	M907935	
5	M903239	
6	M903404	WARNNG Hazarous moving parts. Keep fingers and other body parts away. Picces mobiles dangereuses. Nen Approchez jamais les doigts et dautres particulation of andere korperteile in dicht die finger oder andere korperteile in dicht die finger oder andere korperteile in dicht die finger oder andere korperteile in die finger oder andere korperteile in die finger oder andere korperteile in dicht die finger oder andere korperteile in die finger odereile in die finger odere korperteile in die finger odere
7	M910931	COVER HAZARD May result in severe injury, When open and close the cover, hold a cover until the end. COUVERCLE-DANGER Peut entraîner de graves bessures. Lors de l'ouverture ou de la fermeture du couvercle, itemir le couvercle jusqu'à la fin. Dix-の総定下あり 指を挟まれると、ケガや骨折 の必れあり, カバーの開閉は、最後まで手 を添えて行ってください。
8	M912522	レントレント レント ロント ロント ロント ロント ロント ロント ロント ロント ロント ロ
9	M912523	CAUTION Attention à la partie mobile 可動部注意

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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About installing this machine

Where to Install This Machine

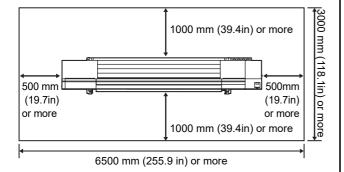
Secure a suitable installation space before assembling this machine.

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

Model	Width	Depth	Height	Gross weight
SWJ-320EA	5410mm	995mm	1440mm	910 kg
	(213.0in)	(39.2in)	(56.7 in)	(2006.2lb)



 If the place to install the machine is exposed to strong sunlight around the window, draw a curtain to prevent the machine from being exposed to strong sunlight.



Working Environmental Temperature

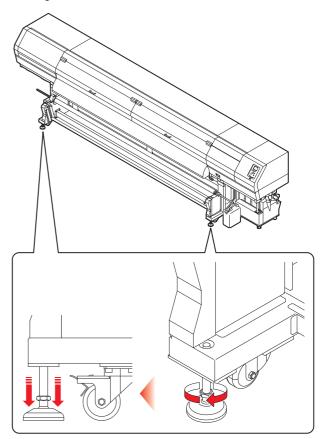
Use this machine in an environment of 20 to 30°C to ensure reliable printing.

The heater temperature may not reach the set value, depending on the ambient temperature.

About fixing machine

The leg of this machine has the level foot to fix the machine.

Before turning the power ON, make sure that the printer body is fixed with the leveling feet. The printer body may start moving during operation if it is not fixed with the leveling feet.



Moving This Machine

(Important!)

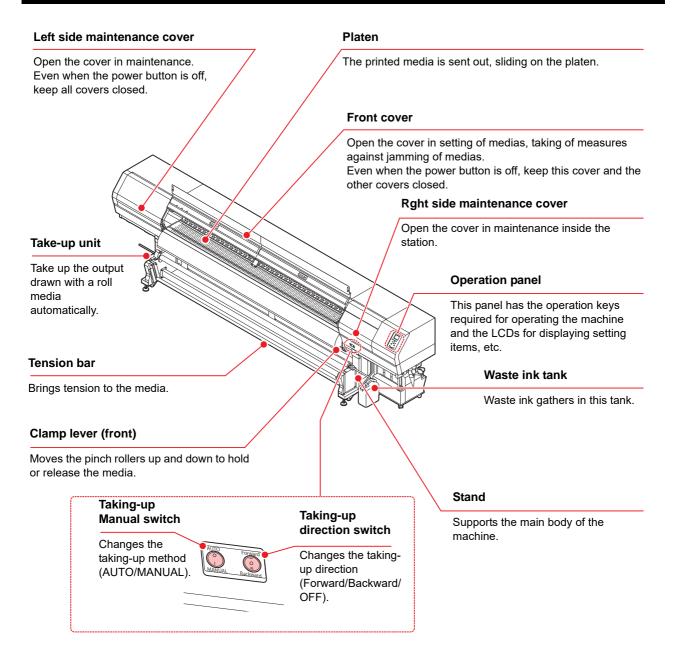
 When the machine is moved to any place other than on the same step-free floor, contact your distributor or our service office.

If you move it by yourself, failure or damage may occur.

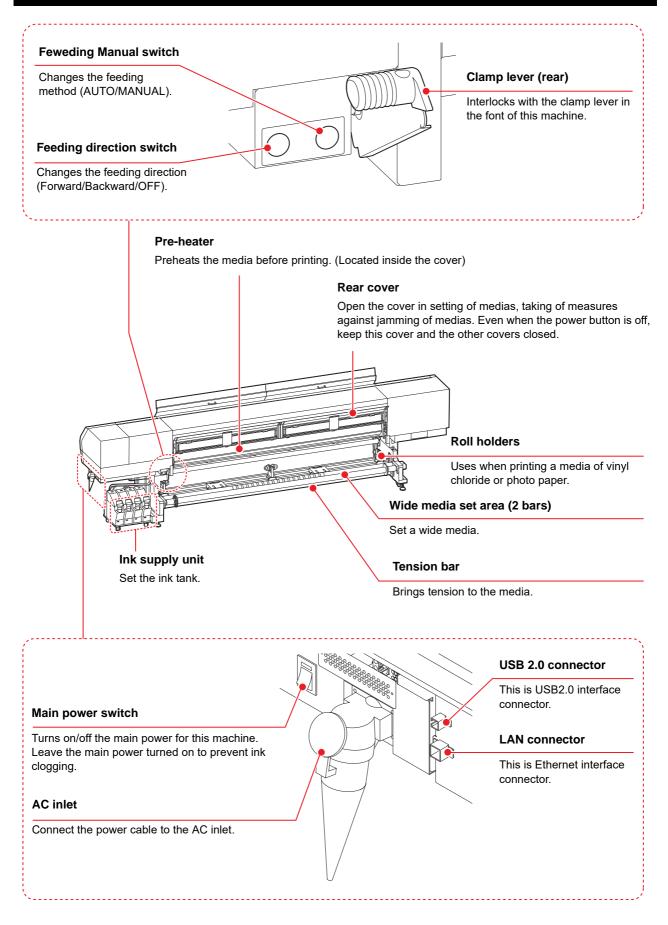
Be sure to request your distributor or our service office to move this machine.

Names of Parts and Functions

Front Side of the Machine



Rear Side and Right Side of the Machine



Operation Panel

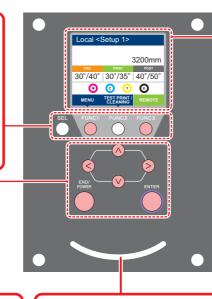
Use the operation panel to make settings for printing or operate this machine.

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
- Heater temperature (current temperature/set temperature)
- 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.
	Currently printing.
Flashing Light blue	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 [ENTER] key 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

Status of the ink tank (remaining ink/error, etc.) is displayed using icons. Each icon is described below.

lcon	Contents								
	Displays the remaining ink amount in nine levels, in the order of the ink cartridge set in the slot. The remaining amount decreases moving to the right.								
M									
	ink full	Approximately 1/8 consumed	Approximately 1/4 consumed.	Approximately 3/8 consumed.	Approximately 1/2 consumed.	Approximately 5/8 consumed.	Approximately 3/4 consumed.	Approximately 7/8 consumed.	near end
	Displayed when ink end or ink error occurs, and printing cannot be performed.								
	Displayed when the expiration date of the ink consumption expires. Replace with new ink or use 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.

lcon	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.
HEATER	Sets the heater temperature.
DATA CLEAR	Executes data clear.
LOCAL	Suspends printing in Remote and shifts to LOCAL.
WASTE INK	Used for adjusting and resetting the waste ink amount. Use after disposing of the waste ink.
>>	When there are multiple items on the MENU screen or other screens, it moves to the next page.
<<	When there are multiple items on the MENU screen or other screens, it moves to the previous page.
ок	Used for completing confirmation when warning message has been displayed and so on.
OFF	Used for turning functions OFF or cancelling them, for example, when turning heater settings OFF and so on.
$\underline{\Psi}$	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.
VACUUM	The vacuum fan is always ON.
VACUUM	The vacuum fan is only ON during printing and jog operation.
HEAD HEIGHT	Used for adjusting the head height.



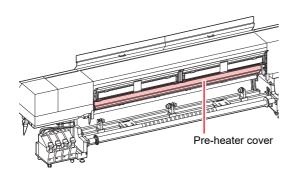
• The color of icons changes according to the state of the printer. When the icon is green: The printer is in Remote mode. When the icon is dark blue: The printer is in LOCAL mode.

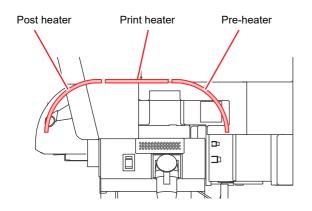
Heater

Pre-heater, Print heater, and Post-heater are equipped on the platen. Pre-heater is used for pre-heating of the media prior to printing. Print-heater is improves the image quality in printing. Post-heater is dries ink after printing.



- During the heating by the pre-heater, the preheater cover is hot on the backside of this machine. Before opening the backside cover or changing the media, allow the pre-heater to cool down sufficiently. Failure to do so may cause a burn injury.
- Before changing the existing media with a thin media, allow the pre-heater to cool down sufficiently. If such a change is made while the pre-heater cover is hot, the thin media might stick fast to the platen, or get wrinkled or curled.
- If the media floats as wave, press the [▼] button on the operation panel to feed the media.





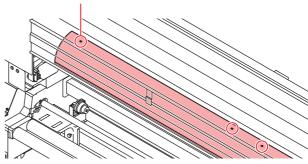
Media sensor

The media sensor detects the presence of the media. This machine has three media sensors on the pre-heater cover (in the rear).



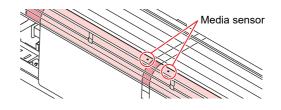
• When setting a media, be sure to cover one of the media sensors located on the rear of the preheater cover. The media cannot be detected unless it is placed over the sensor.

Media sensor



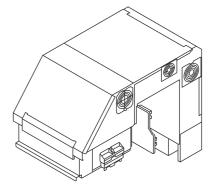


When using twin rolls, set each of the media in such a manner as to cover over each of the two sensors located near the center of the pre-heater cover. Otherwise, this machine might be damaged.



Carriage

The carriage has the ink head for printing.



Capping station



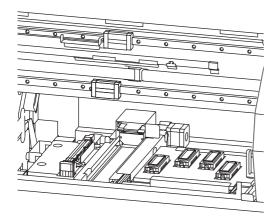
Be sure to wear the attached safety glasses in cleaning within the capping station to protect your eyes against ink. Otherwise, you may get ink in your eyes.

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

The ink caps prevent the nozzles in the heads from drying up.

The wiper cleans the nozzles in the heads.

The wiper is consumable. If the wiper is deformed or the media is stained, replace the wiper with a new one. (P P.4-19)

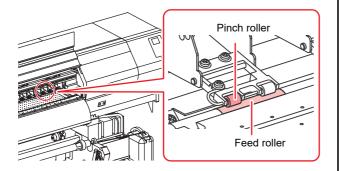


Pinch rollers and Feed rollers



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

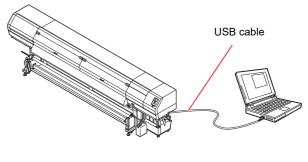
This machine retains the media with the pinch rollers and feed rollers. During printing operation, the feed rollers feed the media forward.



Connecting Cables

Connecting USB2.0 Interface Cable

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



Caution

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

Notes on USB 2.0 Interface

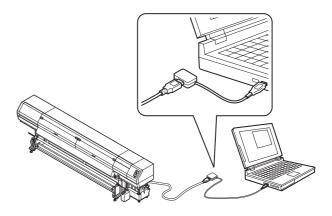
cables available on the market.



• Your RIP must be compatible with USB 2.0.

When two or more SWJ-320EA machines are connected to one personal computer

When two or more SWJ-320EA machines are connected to one personal computer, the personal computer may not recognize all the SWJ-320EA machines normally. Reconnect the unrecognized SWJ-320EA machine to another USB port, if available, and check to see if it is recognized.If the SWJ-320EA machine is not recognized by the newly connected USB port, use USB 2.0 repeater



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 SWJ-320EA machine is connected to, the USB device may not be recognized.

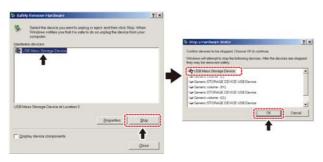
When SWJ-320EA is connected to the personal computer to which an external HDD is connected via USB, the speed of data output to SWJ-320EA may drop.That can cause the head unit to stop temporarily at the right or left end during printing.

Removing USB memory

If a USB memory module is inserted in the personal computer to which a SWJ-320EA machine is connected, click "Stop" in the "Safely Remove Hardware" window by following the instructions given there first and then remove the module.

Leaving a USB memory module inserted can cause [ERROR 201 COMMAND ERROR].

Copy the data onto the hard disk before outputting it for printing.



Connecting the LAN cable

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

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

Printing Via a Network

If printing via a network, you need to configure your network with the following environment.

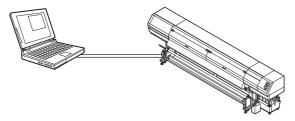
If you configure it with an inappropriate environment, it could cause printing to stop.

- Use LAN cables that are category 6 or higher.
- Use a switching hub and PC that support 1000BASE-T.

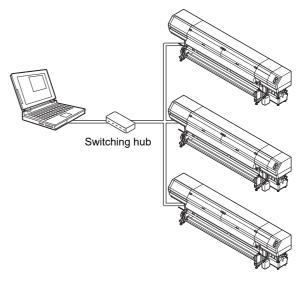
• Set the PC sending the print data and the printer to the same network.

• You cannot connect via a router.

If connecting directly to the printer



If connecting via a switching hub



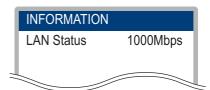
If the PC or device connected to the printer is not 1000BASE-T, you cannot perform printing. After connecting, check the following.

(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 "1000Mbps" is displayed for the LAN status item.



- If "100Mbps", "10Mbps", or "No connect" is displayed, you cannot print using the LAN.
 - If "100Mbps" or "10Mbps" is displayed, you can use event mail ((Chapter3 " "Setting 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	Status	Condition
Green	ON	Connected with 1000BASE-T
Green	OFF	Connected without 1000BASE-T
	ON	Link-up
Yellow	Blinking	Receiving data
	OFF	Link-down



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

Connecting Power Supply Cable

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



• The power supply specifications of this machine is as below:

- Single-phase 200 to 240 Vac 29A (cannot be used with 100 V system)
- For the power supply to the main body of the printer, electrical work is required as described below. Request an electrician to perform electrical work.
- · Socket installation onto the circuit breaker
- · Grounding work
- Ensure that a wall outlet is available near the printer. Also ensure that the power cable can be easily unplugged whenever necessary.
- To prevent electrical shock hazard, it is prohibited for anyone other than electrician licensees to perform the electrical work for this printer.
- Take care not to miswire, which can result in a fire or an electric shock.

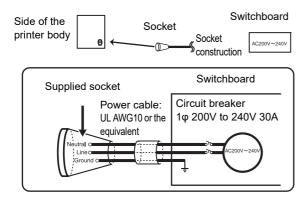


• When any power cable other than the supplied one is to be used, make sure that the cable is equivalent to one of the following types. Connect the cable as shown below.

- VCT-5.5m m² x33 cores (600 V)
- UL-AWG10x3C (600V)

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

Socket construction



Fill ink in the ink tank and charging

Fill ink in the ink tank of this machine.



 Be sure to wear the attached safety goggles and gloves to perform the work. Ink may get in your eyes.

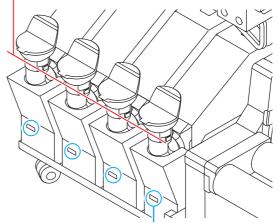
Rough standard for adding ink

You can check the current amount of ink in the ink tank of this machine (rough standard) with the ink remaining amount indicator below the ink tank.

The way to check the ink remaining amount indicator and the ink remaining amount are as below.

In addition, when this machine enters into the status of [Ink Near END] or [Ink End], the display indicate it.

Line of mouth for adding ink



Ink remaining amount indicator



- Notes before adding ink
- Check the following before adding ink. Failure to do so could require all of the ink inside the ink supply unit to be discarded.
- Type of ink
- Color of ink
- Expiration date of ink Check both expiration dates of the ink contained in the ink bottle for refilling and the ink tank of this

machine. Check the label for the expiration date of the ink bottle.

Press the [ENTER] key to check the expiration date of the ink remaining in the ink tank of this machine. ((P.3-22)

Status of ink remaining amount indicator	Enpty				Limit
Status of ink amount	Ink near end/ Ink end				Ink full
Judgment for adding	Adding is possible.	Adding is possible.	Adding is possible.	Adding is completed.	Adding is completed.
Current ink amount *1	About 0 to 400cc ^{*2}	About 400 to 1800cc	About 1800 to 2000cc	About 2000 to 3400cc	About 3400 to 3600cc *3
Distance from liquid level to mouth for adding	180mm and more	About 135mm and more	About 130mm	About 75mm and more	About 75mm and less

*1. The ink remaining amount indicator is only rough standard. For ink filling, it is recommended to check the liquid level from the mouth for adding ink.

- 400 cc indicates [INK NEAR END] and 300 cc indicates [INK END].
 You can add ink up to 3.6L (liter) in the ink tank set in this machine. However, ink may drop from the mouth for adding ink. When the remaining amount indicate heromes completely rad do not add
- remaining amount indicator becomes completely red, do not add ink.

1

Insert the ink IC chip into the ink IC slot.

- Use the IC chip attached to the ink bottle for refilling.
- Insert the ink IC chip facing the contacts of IC chip up.



• Do not dirty or damage the contact of ink IC chip. It may cause not to read the stored information correctly.



Confirm the information of ink IC chip, and press the $\underbrace{\mathsf{ENTER}}$ key.

- Confirm the color, ink type, capacity displayed on the display. If incorrect, press [END/POWER] key and reenter.
- When an error message such " WRONG INK IC " is displayed, remove the IC chip once and reinsert it.
- The ink IC chip charged once cannot be undone. Be sure to press [ENTER] key after the displayed information is confirmed.



(Important!)

Confirm the charge completion display.

- When the ink charging is normally completed, the new ink ink expiration date is displayed.
- Reinsert the IC chip when an error occurs.
- Do not remove the ink IC chip or turn OFF the power to this machine during charging. Doing so may cause a failure to the equipment or the ink IC chip.



(Important!)

When charging is complete, remove the IC chip.

- After charging is complete, be sure to remove and dispose of the IC chip. Do not reuse IC chips.
 If the error message "INVALID INK CHARGE"
- appears on the display • Charging was not possible for one or more of the
- following reasons:
- (1) Faulty IC chip
- (2) Attempting to charge ink that has passed its expiration date

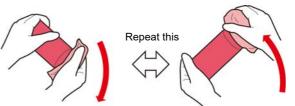


Take out the ink bottle, and slowly shake it twenty times and more.

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



- Before shaking it, check that the cap is firmly closed.
- Be careful not to shake too hard, or it may cause ink leakage or air may be included in the ink and cause nozzle clogging.
- If the remaining amount of ink is less, ink in the bottle cannot be beaten enough. Tilt the ink bottle until it becomes vertical.
- pour all the ink into the ink tank to avoid leaving ink on the bottle.

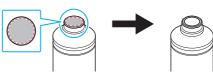


Cover with paper towel firmly and shake ink slowly





• If the mouth of the ink bottle is fitted with a seal, cut this open using a craft knife. Be careful not to drop the cut seal into the bottle.

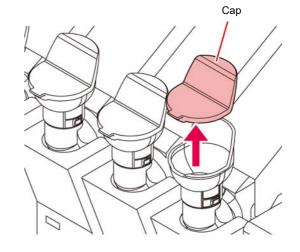




6

Remove the cap of the ink tank.

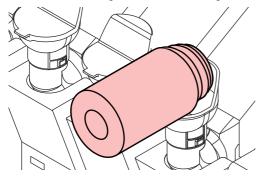
• First, cover the cap with a waste cloth etc. to prevent your hands from getting dirty and then remove it.





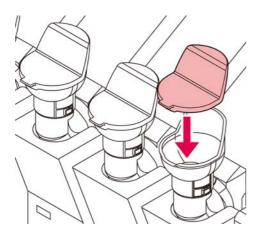
While checking the ink remaining amount indicator, add ink.

- Depending on the ink type, aluminum sheet adheres to the bottle top surface. In such a case, remove it with a cutter.
- While checking the ink remaining amount indicator below the ink tank, add ink. For details, refer to P.1-10 ""Rough standard for adding ink"".





Attach the ink tank cap firmly.





Attach the cap firmly.

Lightly press down the ink tank.

• Press down the ink tank about 5mm so that this machine can correctly recognize the amount of refilled ink. Then slowly replace the ink tank.



• Do not press down the ink tank 10 mm or more. After pressing down the ink tank, be sure to slowly replace the tank.

If the ink tank is returned intensely, the amount of ink cannot be accurately detected.

- Do not press down the ink tank with strong force. It may damage the tank.
- The ink tank, when containing 3 L or more of ink, may not come down sufficiently even if you try to press down the tank. In such a case, do not force down the tank any more.

About IC chip

- The IC chip has information of ink color, remaining amount of ink, expiration data, etc.
- When filling the ink, insert the IC chip packed with the ink bottle into the IC chip inserting port.
- If an IC chip that is not paired with the ink bottle is inserted, ink can not use.
- The mark indicating color information is pasted on the IC chip.

Ink color	Indication mark
Black	(one black circle)
Cyan	(one blue circle)
Magenta	(one red circle)
Yellow	(one yellow circle)



Mark indication position

When [INK NEAR END] is displayed

There is a little of ink left. You can print continuously, however, ink may end during printing. It is recommended to add ink as soon as possible.

Press the [ENTER] key in Local to check the ink tank that requires refilling in Local Guidance. (@ P.3-22)

When [INK END] is displayed

When it becomes lnk end (remaining amount of ink is none), the machine cannot print. Refill ink.

Restrictions of this machine

The expiration date of ink consumption is indicated on the ink bottle. If used beyond the expiration date of ink consumption, ink ejection failure and color change may occur. You can print after the expiration date, but we recommend that you replace it with new ink or use it up as soon as possible.

- Ex.) When the expiration date is April 2020
 - May : Replace with new ink or use up as soon as possible. It is possible to print.
 - June : Replace with new ink or use up as soon as possible. It is possible to print.
 - July : Cannot print.



• A message will be displayed on the display to let you know.

• When the ink is unusable, printing and/or cleaning operation and charging with the IC chip (P.1-10) are disabled.

- In that case, please perform the follow operation.
- (1) Discard the ink remaining in the ink tank of the machine.
- (2) Refer to "Replace the ink tank" on step 5 of P.4-21, and reset the ink charge information.
- (3) Press the [END/ POWER] key several times to return to the local.
- (4) Refill with new ink.Refill with new ink. (@ P.1-10)

Caution in handling of ink bottles



 If you get ink in your eyes, immediately wash your eyes with a lot of clean running water for at least 15 minutes. In doing so, also wash the eyes to rinse ink away completely. Then, consult a doctor as soon as possible.

- If the ink bottle is moved from a cold place to a warm place, leave it in the room temperature for three hours or more before using it.
- Make sure to store ink bottles in a cool and dark place.
- Store ink bottles and waste ink tank in a place that is out of the reach of children.
- Request an industrial waste processor for processing of empty ink bottles.
- Be sure to thoroughly consume the ink in the ink bottle, once it is opened, within three months. If an extended period of time has passed away after opening the ink bottle, printing quality would be poor.



- Do not shake the ink bottle strongly. It may cause ink leaks or nozzle clogging due to excessive air in the ink.
- Do not touch or stain the contacts of the IC chip. This may cause damages on printed circuit boards.

Media

Usable media sizes and notes for handling are described.

Usable sizes of media

Model		SWJ-320EA		
Type of Recommended media *1		PVC film, tarpau	ılins	
Maximum width ^{*2}		3250mm		
Min	imum width	210mm		
Ma	ximum printing width	3200mm		
		When using feeding unit	When using roll holder	
	Thickness	1mm or less (Should not cause trouble during media transport)		
	Roll outside diameter	Φ250mm or less	Φ180mm or less	
edia	Roll weight ^{*3}	100kg or less	25kg or less	
Roll media	Roll inside diameter	3 inches	2 or 3 inches	
R	Side printed	Inside/outside		
Roll end treatment		The roll end is get core with weak-ac weak glue for eas	thesive tape or	

*1. Depending on a media to be used, it may not adhere or the media may not be properly fed. Always try and check the media to be used beforehand.

*2. The maximum width including paper core is 1524mm (60 inch) when twin rolls are used.

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

Caution in handling of medias

Pay attention to the followings for handling of medias.



When handling media, wear the gloves.

If you touch the media with your bare hand, the media may be stained due to fingerprints or oil of your finger. Be careful about it.

• Do not leave the media with the heater ON for a long time.

Waviness may occur on the media and it may cause media clogging.

- Use media recommended by MIMAKI to ensure reliable, high-quality printing. Set the heater temperature to meet the
- characteristics of the media.
 Set the temperature of the heater according to the type and characteristics of the media used. Automatic temperature setting can be made on the operation panel by setting the profile on the dedicated RIP. For setting on the RIP, refer to the

instruction manual for your RIP.

• Pay attention to the expansion and contraction of the media.

Do not use media immediately after unpacking. The media can be affected by the room temperature and humidity, and thus it may expand and contract.

The media have to be left in the atmosphere in which they are to be used for 1 day or more after unpacked.

Do not use curled media.

This may result in paper jamming. If a regular-sized coated sheet of media is rolled and stored, the coated side has to face outside.

• Be careful to dusts on the edge face of the 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.

Chapter 2 Basic Operations



This chapter

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

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Workflow

Turning the Power ON/OFF	Referring to "Turning the Power ON/OFF" (ﷺ P.2-3).
Setting a Media	Referring to "Setting a Media" (@ P.2-4).
Test Printing	Referring to "Test Printing" (@ P.2-18).
Head Cleaning	Referring to "Head Cleaning" (@ P.2-19).
Correct the media feed amount	Referring to "Setting of Media Correction" (@ P.2-20).
Correct the ink drop position for bidirectional printing	Referring to "Correct the ink drop position for bidirectional printing" (@ P.2-21).
Printing Data	Referring to "Printing Data" (@ P.2-22).

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 missing prevention function periodically operates even with the [END/POWER] key turned OFF when the main power switch is turned ON.

· Turn the power ON after the front cover and

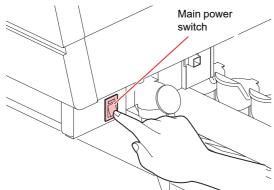


1

Turn the main power switch ON.

maintenance cover are closed.

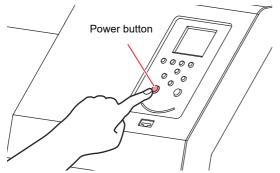
• Set the main power switches located on the side of this machine to the "I" side.





Turn the power on, by pressing the <u>END/POWER</u> key.

• The machine enters LOCAL.



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



The machine enters LOCAL.



Turn ON the power of the connected PC.

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

Turning the Power OFF

When having ended the operation of the machine, turn the power OFF by pressing the power button located on the front side.

Check the following items when turning the power OFF.

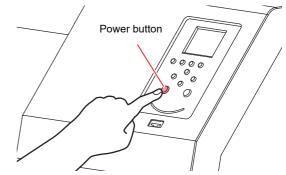
- If the machine is receiving data from the PC or if there is any data that has not been output yet
- If the head has returned to the capping station
- If any error has occurred (2 P.5-11 "Error messages")

Turn OFF the power of the connected PC.



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 missing prevention function (flushing function) operate. When the main power switch has been turned OFF, the auto maintenance functions, such as flushing, do

not operate, and this may cause nozzle missing.

Keep the front cover and the maintenance cover closed.

If any of the covers is opened, it will not work auto maintenance functions such as flushing.

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

If the power is turned OFF in a state where the head has not returned to the capping station, the head dries, which may cause nozzle missing.

In this case, turn the power ON again and check that the head has returned to the capping station, and 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 turn the main power switch off.

Setting a Media

This machine can be used with a roll media and leaf media.

For usable media, refer to P.1-13 "Usable sizes of media".

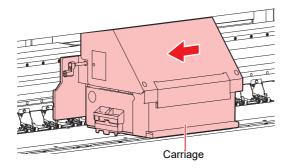
Adjusting the Head Height

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



Move the carriage to the platen.

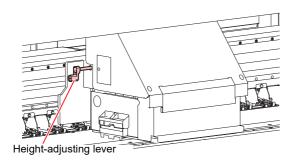
• Execute[ST.MAINTENANCE - CARRIAGE OUT](maintenance function)(@ P.4-7)





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.
- Do not adjust the height-adjusting lever when the print head is capped. Doing so may damage the machine.





Return the carriage to the station position.

For the Adjusting Lever and the Range

Lever position	Distance between platen and head	Recommended media
Vinyl Standard	1.7mm (0.067in)	0.3mm (0.011in) or less (PVC film)
Banner Standard	1.9mm (0.075in)	0.5mm (0.020in) or less (Tarpaulins, FF)
High	2.6mm (0.102in)	Used, depending on the situation including a wavy
MAX	3.3mm (0.130in)	media or the occurrence of cockling.

"

• Please raise the lever when the media is prone to gather dust in the head or is often stained with ink traces.

(Important)

- In the following cases, perform P.2-21 "Correct the ink drop position for bidirectional printing".
- The lever position is changed.
- The head height is not changed, but the media thickness is changed.

Note for media setting

When setting media, read the following notes carefully.



(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.
- When you raise the clamp lever and cut the media with your tools (cutter, scissors, etc.), be sure to check each item below:
- (1) Make TAKEUP setting in "TakeUp" of the machine setting "OFF". (@P.3-13)
- (2) Check that the tension bar is at the highest position.

In the following cases, the media may not be detected correctly.

- When direct sunlight hits the media.
- Do not use a printed media. Otherwise, ink can adhere to the pinch rollers and media may be stained or may not be detected.
- Straighten the significantly or internally curled media to be fed along the platen.
- If the media is left set on the machine for a long time, the media may form an irregular surface for the heat from the heater. If printing on such an irregular surface, the media may rub on the head. If an irregular surface is found under the media, feed the media with the [q] key to avoid printing on the irregular surface, and set a new origin.
 (W P.2-17)
- When setting a media, place the media in the center of the machine . If the media is set to the right or left, the media may not be transported normally.

Setting a roll media



 Narrow roll media may slip on the wide media set area and feeding cannot be performed properly.
 For setting a narrow roll media, refer to "Setting a narrow roll media"((P.2-9))



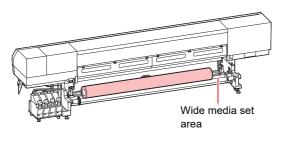
When using a take-up device, it is recommended to set the media with its print-side facing inside.

 This machine allows a media to be set with its print-side facing either inside or outside. Setting the print-side facing inside reduces the variations in tension caused by the changes in the media diameter occurring when the media is taken up, and thus secures stable take-up.



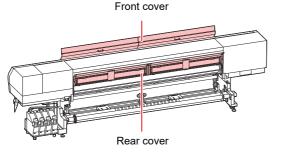
Put the roll media onto wide media set area on the backside of unit.

• Put roll media at the center of the wide media set area.





Open the front cover and rearciver.





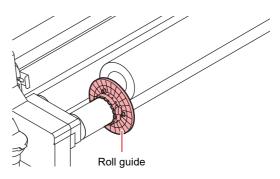
Move the media press to outside.



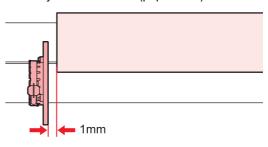
Media Press



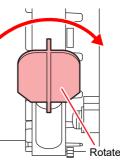
Set the roll guide for right and left.

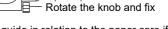


(1) Move the roll guide to the position of 1mm away from the media (paper core).

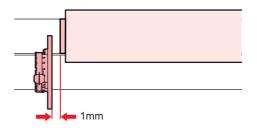


(2) Rotate the knob and fix the roll guide.

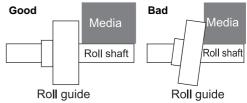




 Set the roller guide in relation to the paper core if the paper core is longer than the media.
 Failure to do so can result in a feeding fault.



- (3) Check that the roll guide is attached vertically against the feeding roll shaft.
- (4) Feed the media and check that the roll guide does not apply any stress on the media/ the paper core.

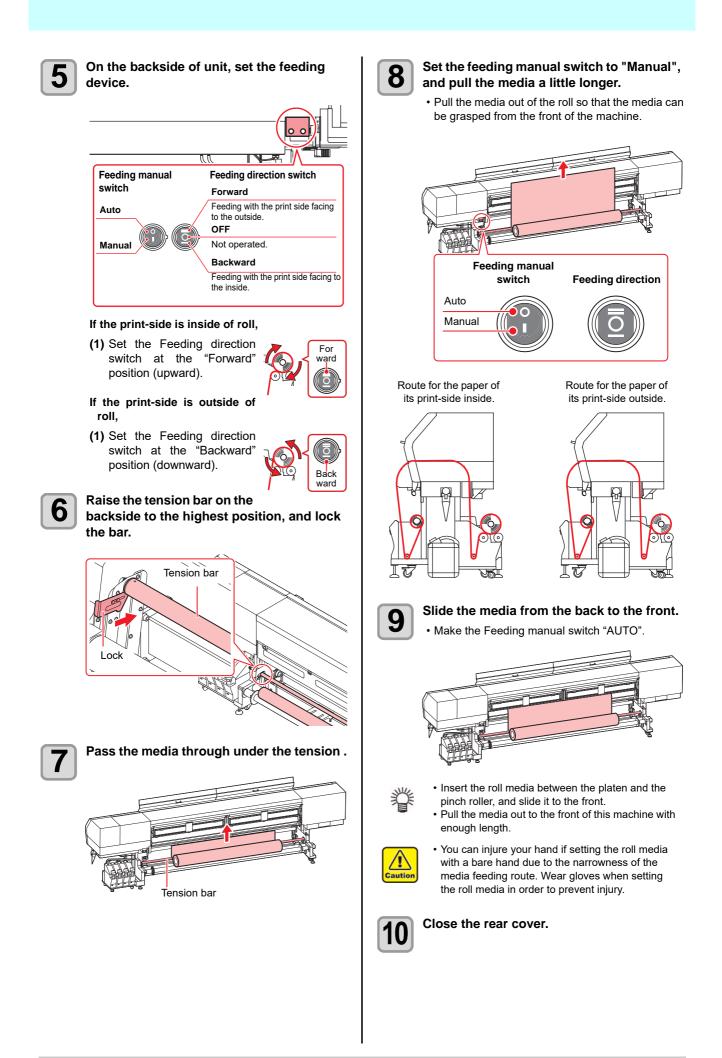


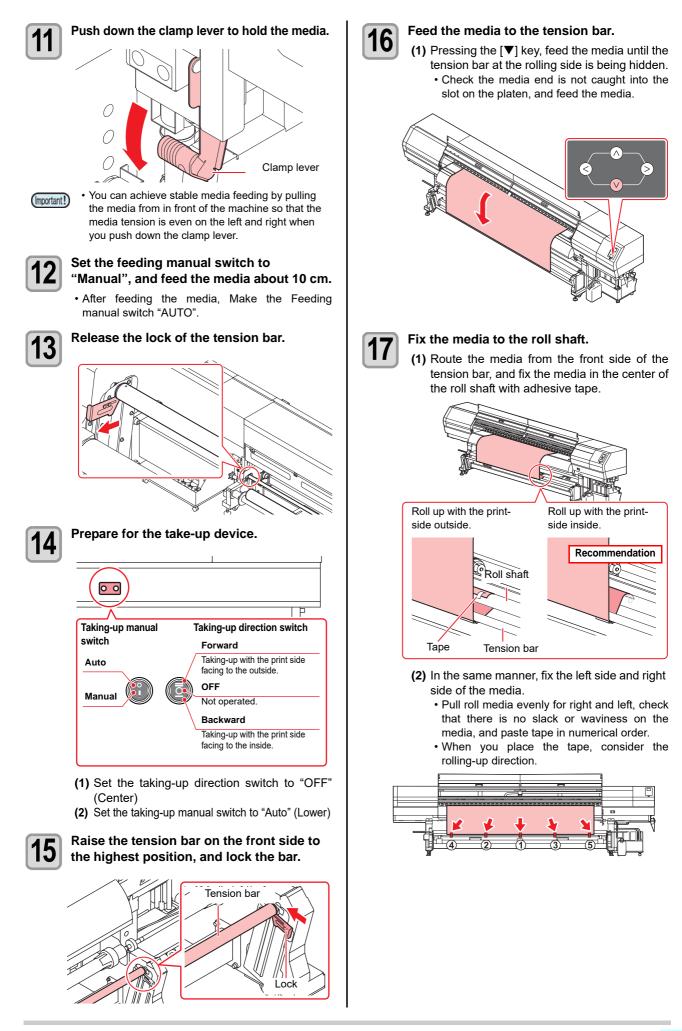


/!`

Cautio

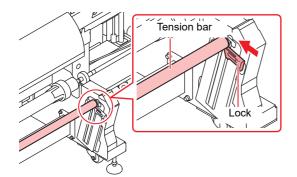
• If you perform printing with the status that the roll guide applies stress on the media/ the paper core, it is possible to detect media end by mistake.







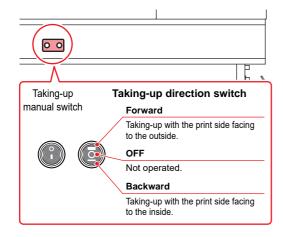
Press **v** to feed the media about 10 cm, and then release the lock of the tension bar.





Roll up the media.

- (1) Set the taking-up direction switch to "Forward"/ "Backward" according to the taking-up method.
- (2) Press [▼], and rotate the roll shaft 2-3 times to take up the media.
- (3) Press the [ENTER] key.





• To take up the media with its print-side facing inside:

- Set the taking-up direction switch to "Backward". • To take up the media with its print-side facing outside:
- Set the taking-up direction switch to "Forward". • **To stop taking-up:**
- Set the taking-up direction switch to neutral (OFF).



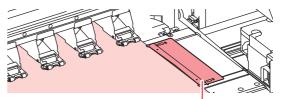
When using a take-up device, it is recommended to set the media with its print-side facing inside.

 This machine allows a media to be set with its print-side facing either inside or outside. Setting the print-side facing inside reduces the variations in tension caused by the changes in the media diameter occurring when the media is taken up, and thus secures stable take-up.



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(0.6 to 1.0mm), remove the media press from the media before printing.



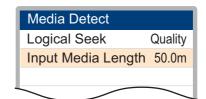
Media Press



Press the () key to select "ROLL" .

Close the front cover.

- If the [Setting the Display of Media Detection] of Machine Setup set in "AUTO"(2 P.3-15), the machine automatically detects the media width. If set in "MANUAL", refer to P.2-9 "Detecting media width when media detection method is "MANUAL"".
- When the detection of media width is over, move to the setting screen of logical seek.





Setting the Logical Seek.

- (1) Press [▲][▼] to select the set value.
 Set value : Media/ Data/ Quality
 (2) Press the [ENTER] key.
- When [Media Remain] of the machine setup is "ON" (IP P.3-14), you are prompted to enter the media remaining amount. (IP P.2-9)
- (Important!)
- When you do not use the take-up device, feed the media until the media reaches the floor, and then print.

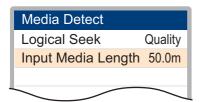
If you print with the media out of contact with the floor, the media feed amount varies during printing, causing poor printing quality.

About entering media remaining amount

When you set [Media remaining amount display] to "ON" (CP P.3-14), you are prompted to enter the media remaining amount after completing the setting of the Logical Seek.



When the setting of the Logical Seek is completed, you are prompted to "Input Media Length".



· When you set "Media remaining amount display" of the machine setting to "OFF", this screen is not displayed. (CPP P.3-14)

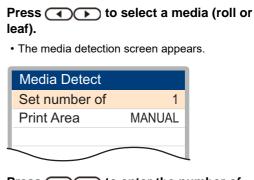


Press () to enter the media remaining amount.



Press the ENTER key.

Detecting media width when media detection method is "MANUAL"



Press () to enter the number of mounted media, and press the (ENTER) key.

1

MANUAL



2

Select and press the (ENTER) key. • The "RIGHT EDGE POSITION" screen will be displayed.



5

Press () to move the head, align the LED pointer to the right edge of the media and press the **ENTER** key.

• The "LEFT EDGE POSITION" screen will be displayed.

In the same way as in step 4, decide the left edge position of the media and press the ENTER key.

- Media width is set.
- When the media detection is completed, the screen of "Setting a roll media as described in step 21 is displayed. Follow the steps 22 and later.

Setting a narrow roll media

When you use narrow roll media (up to 1.6m), set the media on the narrow roll holder.

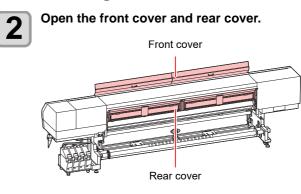
(Important!)

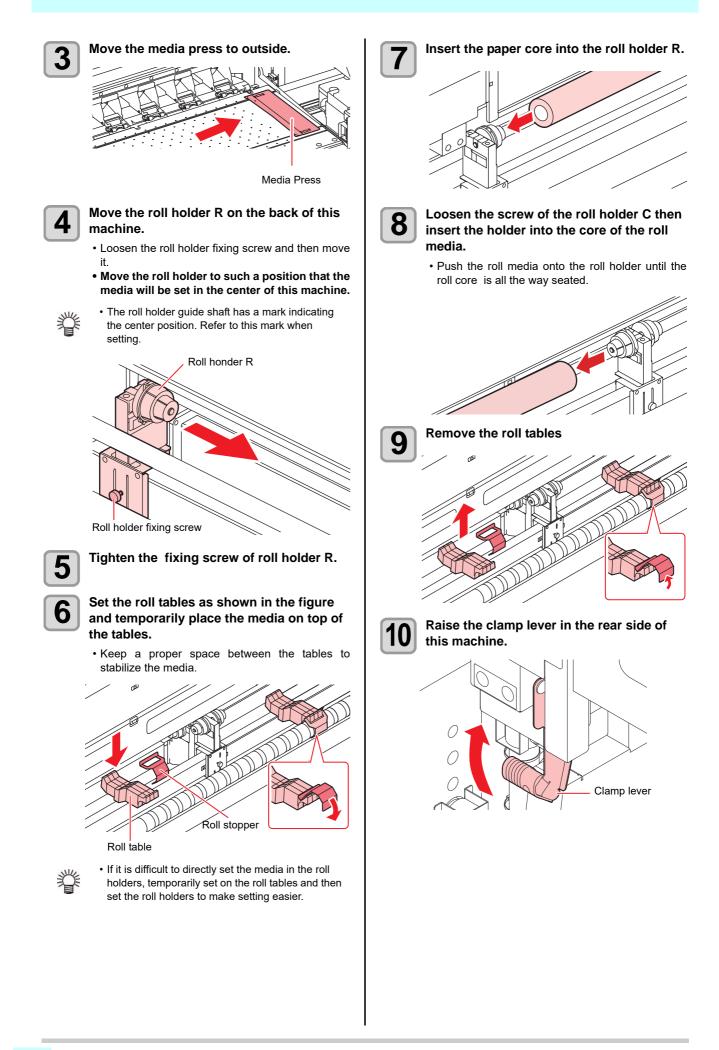
• At the take-up side, set the printed surface to "involuted". (If you set it to "revoluted", it may adversely affect the media feeding.)

• When setting a media, place the media in the center of the machine . If the media is set to the right or left, the media may not be transported normally.



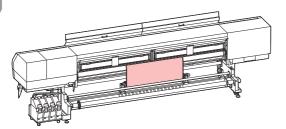
Set the setting of the feeding unit to "OFF" in "Setting Feeding unit" of the machine setting. (7 P.3-13)







Insert the roll media in this machine.



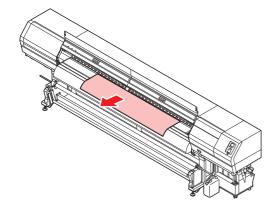
- · Insert the media from the end first so that there is little catching and the media can be inserted smoothly.
- (1) Pull the media out of the roll to the head of the platen.
- (2) Insert the media between the platen and the pinch roller.
 - Pull the media out of the roll so that the media can be grasped from the front of the machine.
- (3) Push down the clamp lever from the back of this machine.
 - The media is held.

Close the rear cover.



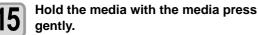
Pull out the roll media out.

- (1) Raise the clamp lever from the front of this machine.
- (2) Pull out the roll media gently.





Push down the clamp lever from the front of this machine.

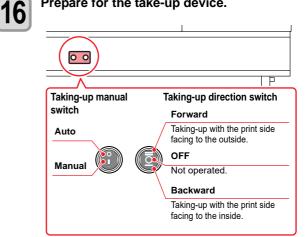


- · Set the media so that no media sticks out from the right end pinch roller to the right side.
- · When using a thick media, remove the media press from the media before printing.



Media Press

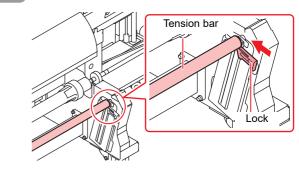
Prepare for the take-up device.



- (1) Set the taking-up direction switch to "OFF" (Center)
- (2) Set the taking-up manual switch to "Auto" (Lower)



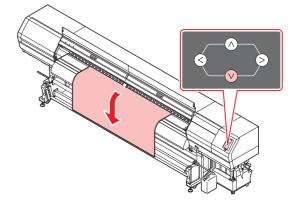
Raise the tension bar on the front side to the highest position, and lock the bar.





Feed the media to the tension bar.

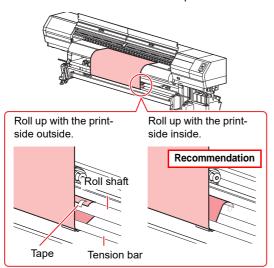
(1) Pressing the $[\mathbf{\nabla}]$ key, feed the media until the tension bar at the rolling side is being hidden. · Check the media end is not caught into the slot on the platen, and feed the media.



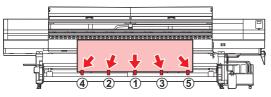


Fix the media to the roll shaft.

(1) Route the media from the front side of the tension bar, and fix the media in the center of the roll shaft with adhesive tape.

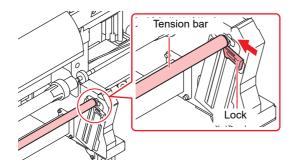


- (2) In the same manner, fix the left side and right side of the media.
 - Pull roll media evenly for right and left, check that there is no slack or waviness on the media, and paste tape in numerical order.
 - When you place the tape, consider the rolling-up direction.





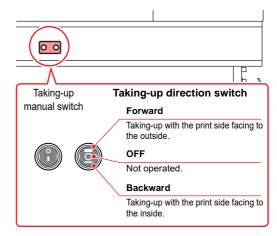
Press **v** to feed the media about 10 cm, and then release the lock of the tension bar.





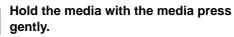
Roll up the media.

- (1) Set the taking-up direction switch to "Forward"/ "Backward" according to the taking-up method.
- (2) Press [♥], and rotate the roll shaft 2-3 times to take up the media.
- (3) Press the [ENTER] key.





- To take up the media with its print-side facing inside:
- Set the taking-up direction switch to "Backward".
- To take up the media with its print-side facing outside:
- Set the taking-up direction switch to "Forward". • To stop taking-up:
- Set the taking-up direction switch to neutral (OFF).



- Set the media so that no media sticks out from the right end pinch roller to the right side.
- Set the media press to the position of 3mm away from the media.
- When using a thick media, remove the media press from the media before printing.



Media Press



Close the front cover.



Press the key to select "ROLL" .

 If the [Setting the Display of Media Detection] of Machine Setup set in "AUTO"(CP P.3-15), the machine automatically detects the media width.



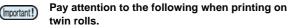
Setting the Logical Seek.

- (1) Press [▲][▼] to select the set value.
 Set value : Media/ Data/ Quality
 (2) Press the [ENTER] key.
- When [Media Remain] of the Machine Setup is "ON" (@P.3-14), you are prompted to enter the media remaining amount. (@P.2-9)



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

Setting two narrow roll media (twin rolls)



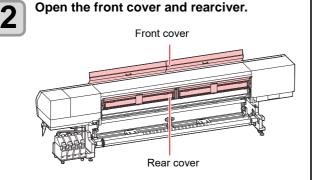
- Use media having a media width of 1524 mm or less and a paper core width of 1550 mm or less.
- Set two media having the same properties as shown below. Otherwise, the printed image quality will be affected.

Media type, media grade, media width, the diameter of media to be set (with the same remaining media amount), and media rolling-up direction

1

Set the settings of "Feeding Unit" and "Take-up Unit" of the Machine Setup to OFF.

• Refer to P.3-13 "Setting Feeding unit" and P.3-13 "Setting Take-up unit".

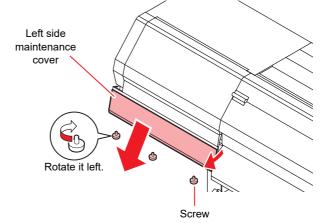


3 Rise the clamp lever.

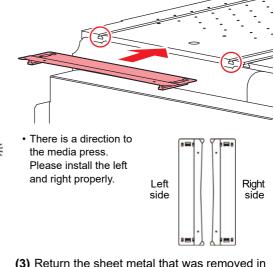


Add the attached media press to hold the two media.

- (1) Remove the left side maintenance cover.
 - Rotate the screws under the left side maintenance cover (for three positions) to the left and remove them.
 - Hold the bottom of the left maintenance cover, and pull the cover toward you from below to remove the cover.
 - If the left side maintenance cover is hard to remove, use the supplied screwdriver.



(2) Attach the Media press in the accessories.Fit the protruding portion of the media press into the groove of the platen (circle part in the figure below).

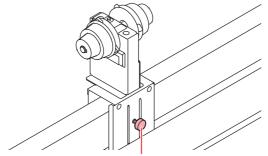


(3) Return the sheet metal that was removed in step (1) to the original position and attach the left side maintenance cover.



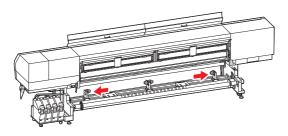
Move the roll holder C to the center of this machine, and the roller holders R and L to the right and left ends of this machine respectively.

- Follow the steps below to move the roll holders.
- (1) Loosen the roll holder fixing screw.

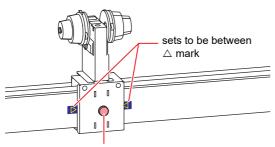


Roll holder fixing screw

(2) Move the roll holders R, and L to the right, and left of this machine respectively.



- (3) Move the roll holders C to the center of this machine, and tighten the fixing screw of roll holder C.
 - This machine has a mark indicating its central position to allow the roll holder C to be set.
 - Tighten the screw firmly to secure the roll holder C at its proper position.



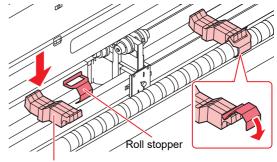
Roll holder fixing screw



Set media in the roll holder.

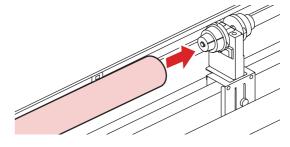
Set the media one by one.

- (1) Set the roll tables as shown in the figure and temporarily place the media on top of the tables.
 - Keep a proper space between the tables to stabilize the media.



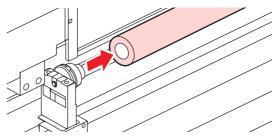
Roll table

- (2) Insert the paper core of the media into the roll holder C.
 - Push the roll media onto the roll holder until the roll core is all the way seated.

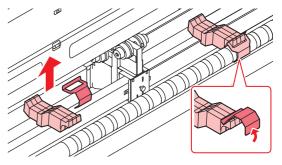


(3) Insert the roll holder R (or L) into the paper core, and tighten the fixing screw.Tighten the screw so firmly that the roll holder

will not move during printing.



(4) Remove the roll tables, and move the tables to allow the other media to be set.

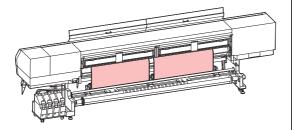


(5) Set the other media in the same way as described in steps (2) and (3).

(6) Remove the roll tables and store the tables.



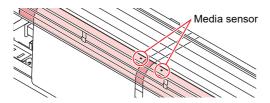
Raise the clamp lever in the rear side of this machine and Insert the roll media.



- 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 .
 - The media is held.



 When setting media, check that the two media sensors located near the center of the preheater cover are individually covered over by the respective media. If one media covers the two sensors, or if there is a media covering neither of the media sensors, the media width is not detected properly, causing damage to this machine.



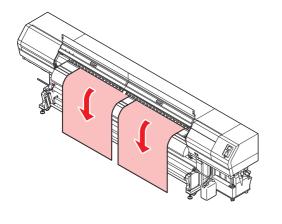


9

Close the rear cover.

Pull out the roll media out.

- (1) Raise the clamp lever from the front of this machine.
- (2) Pull out the roll media gently.
 - Pull out the two media until both media reach the floor.





Push down the clamp lever.

- Check that the roll media are drawn out almost evenly by lightly pulling several points of the media, and then lower the clamp lever.
- Check that the tension applied to the media is equal for both the left and right sides.



Hold the media with the media press gently.

• When using a thick media, remove the media press from the media before printing.



Media Press



 If any of the media is located right or left of its specified position after media detection, a message appears, indicating that the media is located too right or left. Set the media again.



(Important!)

Close the front cover.

- Do not secure either media on the take-up device when printing on twin rolls.
- Before printing, check that the media has no slack. Rewind any loose roll media.



Press the (key to select "ROLL" .

 If the [Setting the Display of Media Detection] of Machine Setup set in "AUTO"((2) P.3-15), the machine automatically detects the media width.



Setting the Logical Seek.

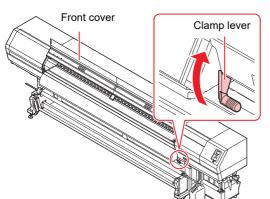
- (1) Press [▲][▼] to select the set value.
 Set value : Media/ Data/ Quality
 (2) Press the [ENTER] key.
- When [Media Remain] of the Machine Setup is "ON" (@ P.3-14), you are prompted to enter the media remaining amount. (@ P.2-9)

Setting leaf media

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



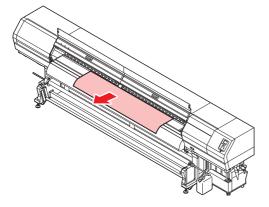
Open the front cover and raise the clamp lever.





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.





Hold the media with the media press gently.

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

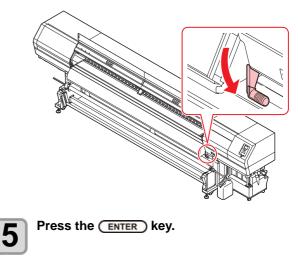


Media Press



Push down the clamp lever and close the front cover.

· Set the media straight.



Press the D key to select "LEAF" .

 If the [Setting the Display of Media Detection] of Machine Setup set in "AUTO"((2) P.3-15), the machine automatically detects the media width.



6

Setting the Logical Seek.

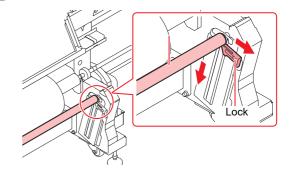
(1) Press [▲][▼] to select the set value.
Set value : Media/ Data/ Quality
(2) Press the ISNTEED have

(2) Press the [ENTER] key.
When [Media Remain] of the Machine Setup is "ON" (IP P.3-14), you are prompted to enter the media remaining amount. (IP P.2-9)

Removing the taken-up media

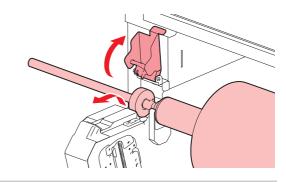


Release the lock of the taking-up tension bar and lower the tension bar.



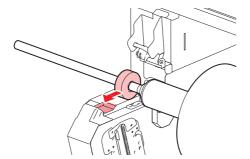


Open the cover on the left side of the taking-up shaft and pull the taking-up shaft forward.



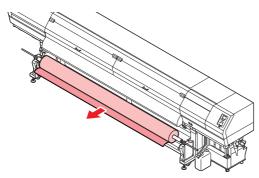


Pull out so that the white plastic collar is inserted into the slot on top of the leg.





Remove the roll holder, and take off the paper core.



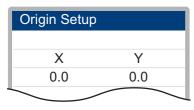
Changing the printing origin

The position of the printing origin can be changed.

r		
	_	

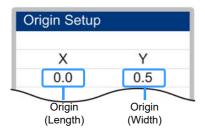
In Local, press ().

• It enters into the origin setting mode.





Press To set the origin to a desired position.



• Select the carriage and media, moving the point with [▲][♥][◀][▶]. (Position of the LED pointer becomes the origin position.)



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

- The printing origin is changed.
- (Important!)
- When a roll media is set on the narrow roll holder, change the origin, and then rewind the media by hand and set the media without slack.
 If the media is loose, the media feed amount of the media varies, causing poor image quality.

Preparing for the Heaters

Changing the Temperature Settings for the Heaters

You can change/save the temperature settings for the heaters with "Heater" of the setting mode. ($\textcircled{\mbox{$\mathbb{C}$P}$}$ P.3-6)

Here, changing method of the temperature set in the setting mode is explained.

Set the heater temperature according to the characteristics of the media you use.

The temperature of the heaters has been set to "OFF" as default.

Appropriate temperature adjustment can be made because the temperature can be adjusted even during printing.

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



Press the <u>SEL</u> key,and press the (FUNC2) (Heater) in LOCAL.

• The heater temperature adjustment screen will be displayed.



Press (A) (V) (I) to set the temperature of each heater.

Heater selecting: Select with $[\blacktriangleleft][\triangleright]$ Temperature setting: Set with $[\blacktriangle][\nabla]$

• The heater starts to get hot.



The heating of the heater stops.

• When the heater temperature reaches the set temperature, the heater icon lights in green.



Press the **ENTER** key to stop heating.

- The screen returns to LOCAL.
- (Important!
- Use this machine under 20 to 30°C. The temperature may not reach the set value due to the environmental temperature condition.

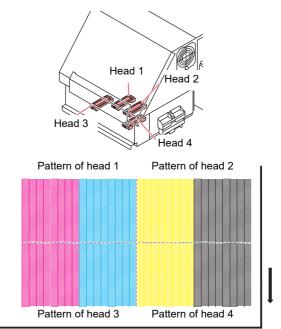


 Press [FUNC3] (OFF) in Step 2 to turn all heaters OFF.
 Or, press [FUNC1] to raise all heaters by 10°C. Test Printing

Print a test pattern to check that there are no discharging defects such as nozzle missing (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.



Note on test printing

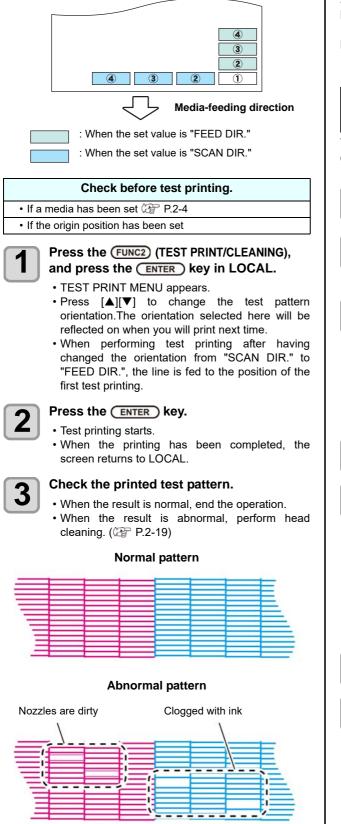


- When using leaf media, set a media of more than 210mm put horizontally. If a media with narrow width is set, printing will only be conducted to midway.
- If use by setting the media to Narrow roll holder, rewind the media by hand before printing so that it is not loose. When the roll media has not been rewound tightly, it may cause image quality to deteriorate.
- When test print, be sure to close all the covers (front cover / rear cover).

Test Printing

Print a test pattern to check that there are no discharging defects such as nozzle missing (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.



Head Cleaning

About head cleaning

Check the printed test pattern result and perform cleaning depending on the status.

Select one from the three types below:

Soft	: When lines are bent, when any line is missing
Normal	: When any line is missing, when colors are
	mixed
I I a u d	· · · · · · · · · · · · · · · · · · ·

Hard : When poor image quality cannot be improved even by Normal or Soft cleaning

Perform head cleaning depending on the test printing result

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

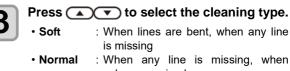
1 Pre

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



Press v to select "CLEANING", and press the ENTER key.

CLEANING MENU appears.



- Hard : When poor image quality cannot be
 - improved even by Normal or Soft cleaning

Press the ENTER key.

5

4

Press v to select the cleaning head, and press the (FUNC2) (v).

• 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.

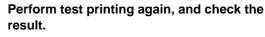
• To have all head cleaned, put a check in all check boxes.



6

In firmware version 1.5 or later, the software Cleaning is performed for all heads.

Press the ENTER key.



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

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

- Clean the wiper and ink cap. (
 P.4-7)
- Wash the head nozzle. (
 P.4-12)

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.



• Be sure to perform feed correction each time before printing. The media feed amount may vary, depending on the remaining amount of the roll media.

- If use by setting the media to Narrow roll holder, rewind the roll media by hand and set without slack. There may not be accurate to correct the feed amount.
- On completion of [MEDIA COMP.] during use of a roll media, the media returns to the printing origin.
 When a roll media is set on the narrow roll holder, Slack will occur in the roll media of the back side of this machine.

Before printing, take up the slack in the roll media by hand; a loose roll media can result in an inferior image quality.

- When printing with a take-up device, set the media first and then perform media correction.
- If print without using the take-up device, please make the correction from sending media to reach the floor. There is a possibility that the fed amount can not be adjusted normally.

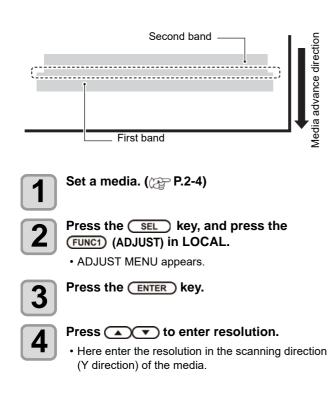
Setting of Media Correction

A pattern for media correction is printed and a mediafeeding 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.





Enter a resolution matching the data printed usually. This machine changes the media feeding method, depending on the resolution. If you enter a resolution inconsistent with actual printing, it may result in an inappropriate feed amount.



Press the <u>ENTER</u> key twice to print the correction pattern.



Check the correction pattern and enter a correction value.

- A screen for entering the correction value appears.
- 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.

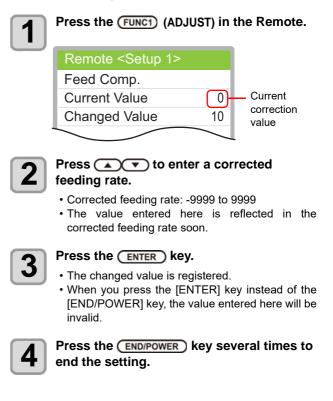
Press the <u>END/POWER</u> key several times to end the setting.



 You can select "Feed Comp." by using the [FUNCTION] key in the Local without pressing the [FUNC2] (ADJUST) key. (2 P.3-5)

Correcting Media-feeding during Printing

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



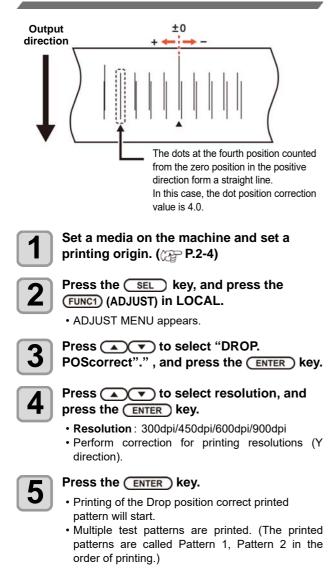
Correct the ink drop position for bidirectional printing

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.



 When using leaf media, set a media of more than 210mm put horizontally. If a media with narrow width is set, printing will only be conducted to midway.

Example of a Printed Pattern





Press vto 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.



In the same way as in Step 6, enter a correction value of Pattern 2, and press the <u>ENTER</u> key.



Press the <u>END/POWER</u> key several times to end the setting.

背

• You can select "DROP.POScorrect" by using the [FUNCTION] key in the Local without pressing the [FUNC2] (ADJUST) key. (@ P.3-6)

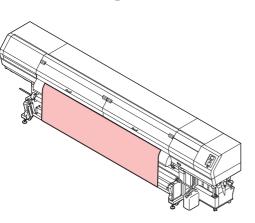
Printing Data

Starting a Printing Operation

- 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.
 - When the same data is printed, the color may differ if print conditions are changed, including the resolution, pass, scanning speed, and printing direction. Check the effects before printing.



Setting a Media ((2 P.2-4)





Checking the Heater Temperature

Press the FUNC3 (REMOTE) key in LOCAL.

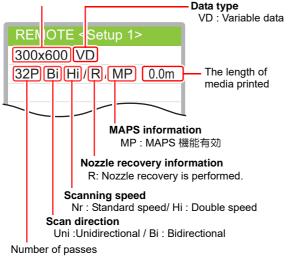
- If the heater temperature has not reached the setting value, the worning message "TEMPERATURE CONTROL" is displayed. Even if it has not reached, you can move to Remote when pressing the [ENTER] key.
- The screen changes to Remote, and data can be received from the PC.



Transmit data to be printed from the PC.

• For the method of data transmission, see the instruction manual for the output software.

Resolution





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.



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.



Press the <u>SEL</u> key, and press the FUNC3 (DATA CLEAR) in LOCAL.



Press the ENTER key.

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

Chapter 3 Extended Functions



This chapter

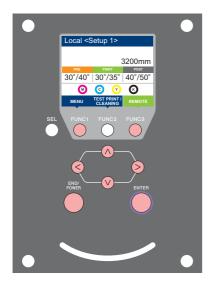
describes the operation procedures for using the machine more conveniently and each setting procedure.

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About Setup MENU

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

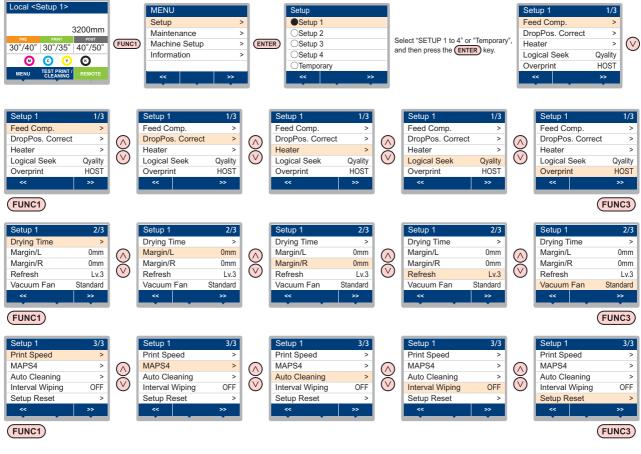


SETUP MENUs at-a-glance

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

(FUNC2) : Press this to use the adjust 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..



Screen transition when FUNCT (ADJUST) key is pressed

When adjustment functions (Feed Comp./ X-Distance Comp./ Prop Pos. Correct) are performed, the ADJUST MENU can be displayed easily without selecting [MENU]-[Setup] from Local. Press the [SEL] key to display "ADJUST" for [FUNC1], and then press the [FUNC1] key.

Local <setup 1=""></setup>		Adjust			Adjust	
		Feed Comp.	>		Feed Comp.	>
3200mm		PropPos. Correct	>		PropPos. Correct	>
PRE PRINT POST	FUNC2			(\vee)		
30°/40° 30°/35° 40°/50°				\sim		
🛛 🕐 📀 🕐 🔘						
MENU TEST PRINT / REMOTE						

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/ Vacuum Fan
- 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 ^{*1}	When no instruc- tion from RIP exists ^{*2}	Outline		
Feed Comp. (矿 P.3	-5)		-9999 to <u>0</u> to 9999		Used to print a pattern for correcting a media- feeding rate and correct it.
Drop Pos Correct (CP P.3-6)		-40.0 to <u>0</u> to 40.0		Used to adjust the dot position in go and return printing.		
Heater (ᢙ P.3-6)	PRE PRIN POST	INT		<u>OFF</u> / 20 to 60 °C (OFF/ 68 to 140°F)		Sets pre-heater's conditions.
Logical Seek (0	යි P.3	8-7)		Data / Media / <u>Quality</u>		Sets the scan movable area during printing.
Overprint (2 F	P.3-7)			<u>Host</u> / 1 to 9	1	Sets the number of layers in which ink is to be applied.
Drying Time (2	P.3	-7)		<u>Host</u> / 0.0s to 9.9 sec	0 sec	Set the ink drying time.
Margin/L (P.3-8)			-10 to 85mm		Sets a non-printing area along the right and left
Margin/R (🕼	P.3-8)			- 10 10 05/11/1		edges of the media.
Refresh (28 F	P.3-8)			Host / Lv.0 to <u>Lv.3</u>	Lv.3	Sets the interval of refresh performed during printing.
		′ OFF/ ′ <u>ard</u> / St			Standard	
Vacuum Fan (ᢙ P.3-8)	V	Host Veak Standard Strong	Continu ous running	ON/OFF		Sets the absorbability of the media.
Drint Spood	Feed	speed		10 to <u>100</u> %		Changes the media feeding speed in printing.
Print Speed (@P P.3-8)	Scan	Speed		70 to <u>100</u> %		Change the travel speed of the carriage during printing.
	AUTC	<u>)</u>				
MAPS4		Pa	ttern	1/2/3		Perform setting to reduce stripes between passes.
(അ P.3-9)	(CP P.3-9) MANUAL		noothing	5 to 25 to 100%		r enorm setting to reduce stripes between passes.
	<u>OFF</u> , F	ile, Len	gth, Time			
	F	ile	Interval	1 to 1000		
Auto Clooping			Туре	Normal/ Soft/ Hard		Sate the outematic cleaning operation for the band
Auto Cleaning (@P P.3-9)	L	.ength	Interval	0.1 to 20.0 to 100.0m		Sets the automatic cleaning operation for the head performed before printing or during printing.
(~ 1.0 0)			Туре	Normal/ Soft/ Hard		personal zoloro printing or doring printing.
	٢	īme	Interval	10 to 30 to 120 min]
			Туре	Normal/ Soft/ Hard		
Interval Wiping (P.3-10)				3 to 255 min, <u>OFF</u>		Sets the wiping operation performed after printing is completed.
Setup Reset (2	🐨 P.3	-5)		The configulation in the settir	ngs 1-4 can be	reset ondividually.

*1. The underlined has been set as default.

*2. 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.

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

Press the (FUNC1) (MENU) → ENTER key in LOCAL.

Press rest to select SETUP 1 to 4, and press the ENTER key.

 \bullet The item selected indicates ullet and others show \bigcirc .

Setup menu will be displayed.



1

Ζ

Press rest 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.

Press the <u>FUNC1</u> (MENU) → <u>ENTER</u> key in LOCAL.



1

Press () to select "Temporary", and press the ENTER key.

• Setup menu will be displayed.



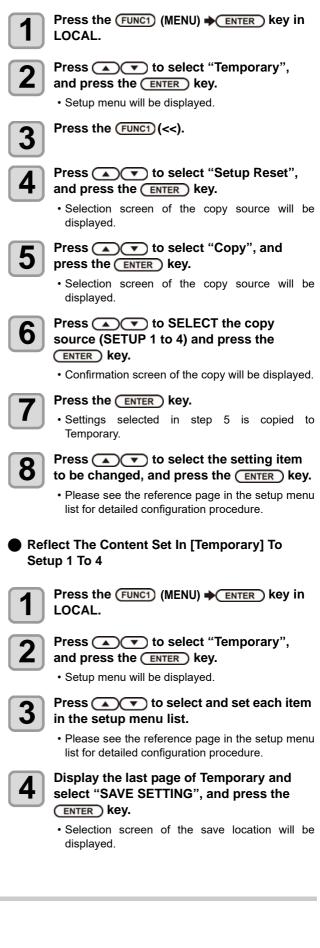
Press v to select and set each item in the setup menu list.

• 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 "copy" from the Setup Reset menu of Temporary, and specify the copy source (Setup 1 to 4).





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

• Save confirmation screen will be displayed.



Press the ENTER key.

• Settings of Temporary will be saved to the location selected in step 5.



Press the <u>END/POWER</u> key several times to end the setting.

Reset the registered contents

Reset the contents registered to SETUP 1 to 4.



Press the (FUNC1) (MENU) → ENTER key in LOCAL.



Press (a) v to select SETUP 1 to 4 to be reset and press the ENTER key.

Setup menu will be displayed.



Press the FUNC1 (<<).



Press v to select "Setup Reset", and press the ENTER key.

- Confirmation screen of reset settings will be displayed.
- Press the <u>END/POWER</u> 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.



 Be sure to perform feed correction each time before printing. The media feed amount may vary, depending on the remaining amount of the roll media.

- If use by setting the media to Narrow roll holder, rewind the roll media by hand and set without slack. There may not be accurate to correct the feed amount.
- On completion of [MEDIA COMP.] during use of a roll media, the media returns to the printing origin.
 When a media is set on the narrow roll holder, slack occurs in the roll media on the backside of this machine.

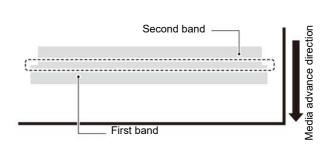
Before printing, take up the slack in the roll media by hand; a loose roll media can result in an inferior image quality.

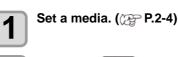
- When printing with a take-up device, set the media first and then perform media correction.
- When printing without using the take-up device, feed the media until the media reaches the floor before performing the correction. Otherwise, the feed amount may not be adjusted normally.

A pattern for media correction is printed and a mediafeeding 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.





Press the (FUNC1) (MENU) → ENTER key in Local.



Press rest to select SETUP 1 to 4, and press the ENTER key.

Setup menu appears.



Press v to select "Feed Comp.", and press the ENTER key.



Press () v to enter resolution.

- Here enter the resolution in the scanning direction (Y direction) of the media.
- Enter a resolution matching the data printed usually. This machine changes the media feeding method, depending on the resolution. If you enter a resolution inconsistent with actual printing, it may result in an inappropriate feed amount.



Press the <u>ENTER</u> key twice to print the correction pattern.



Check the correction pattern and enter a correction value.

- A screen for entering the correction value appears.
- 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 "25", the width of the boundary changes by about 0.1 mm.

Press the ENTER key.

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

Press the <u>END/POWER</u> 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.



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



Press v to enter a corrected feeding rate.

- Corrected feeding rate: -9999 to 9999
- The value entered here is reflected in the corrected feeding rate soon.



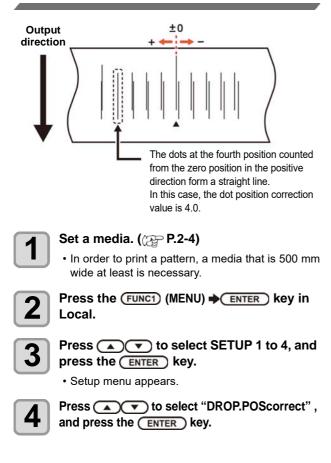
Press the ENTER key twice. • key. The changed value is registered.

Key. The changed value is registered.
When you press the [ENTER] key instead of the [END/POWER] 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.)

If the Positions of Dots Shift...

When the condition for printing (Distance of the platen and the head /media thickness/media 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





Press v to select resolution, and press the ENTER key.

- Resolution : Y300dpi/ Y450dpi/ Y600dpi/ Y900dpi/ Y1200dpi
- Perform correction for printing resolutions (Y direction).



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 in the order of printing.)

Press v 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.



In the same way as in Step 6, enter a correction value of Pattern 2, and press the <u>ENTER</u> key.

9

Press the <u>END/POWER</u> key several times to end the setting.

Setting the Heater

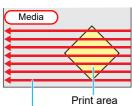
This machine is equipped with a pre-heater on its backside, and contains a print heater to keep the ink at an appropriate temperature.

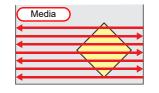
Type of Heater	Function	
Pre heater	Used for pre-heating of the media prior to printing to prevent rapid temperature changing.	
Print heater	Increases the image quality when printing.	
Post heater	Dries the ink after printing.	
Loca Press • Setu 3 Press press	s the FUNC1 (MENU) → ENTER key in I. S ▲ ▼ to select SETUP 1 to 4, and s the ENTER key. up menu appears. S ▲ ▼ to select "Heater", and s the ENTER key. S ▲ ▼ to select "PRE", and press ENTER key.	
J temp	 Definition of the set of the pre-heater temperature , and press the ENTER key. Heater temperature : OFF/ 20°C to 60°C 	
	s the <u>END/POWER</u> key several times to he setting.	

Setting of Logical Seek

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

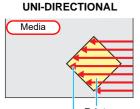
Movement of heads when Logical Seek is "Media". **BI-DIRECTIONAL** UNI-DIRECTIONAL

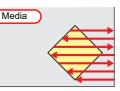




Red arrow : Movement of head

Movement of heads when Logical Seek is "Data". **BI-DIRECTIONAL**

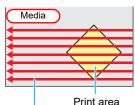




Print area

Red arrow : Movement of head

Movement of heads when Logical Seek is "Quality". UNI-DIRECTIONAL

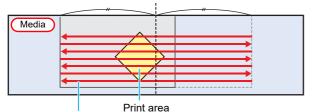


Red arrow : Movement of head

BI-DIRECTIONAL

The head moves twice the distance of longer side of the set media from the center of the platen as a reference.

Center



Red arrow : Movement of head

If the Logical Seek is set to "Data" or "Media", the (Important!) following phenomena may occur. In such a case, set the Logical Seek to "Quality".

- · The accuracy of the media feed amount is lowered.
- · Media skews.
- · Lateral stripes occur due to feed variations.

Press the (FUNC1) (MENU) → (ENTER) key in Local.



Press () v to select SETUP 1 to 4, and press the **ENTER** key.

· Setup menu appears.



Press () v to select "Logical Seek", and press the (ENTER) key.



Press () to select a set value, and press the ENTER key. · Set value : Data/ Media/ Quality



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

Setting of Overprint

Sets the number of layers in which ink is to be applied.



Press the FUNC1 (MENU)
FINTER key in Local.



Press () to select SETUP 1 to 4, and press the ENTER key.



Press the (FUNC3) (>>).

· Setup menu appears.



Press rest "Overprint", and press the (ENTER) key.



Press () v to set number of Overprint, and press the ENTER key.

· Setting value : Host/ 0 to 9 times



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.

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



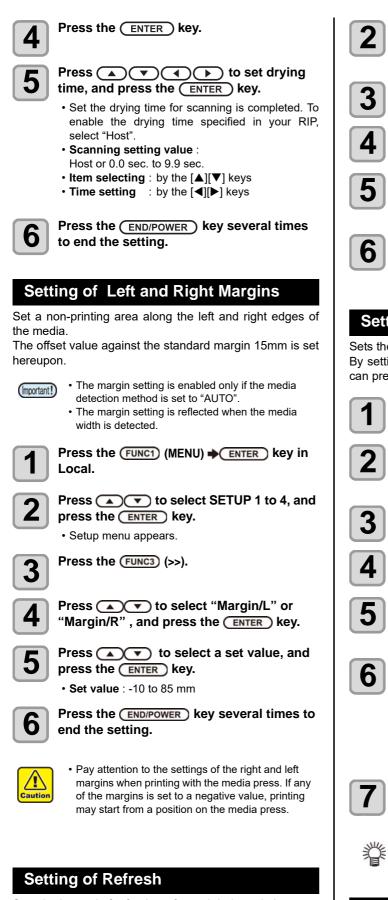
· When you give priority to the setting at the RasterLink side, make the setting value "Host". • "SCAN" set in this machine is displayed as "Pause Time per Scan" in the RasterLink.

Press the (FUNC1) (MENU) → (ENTER) key in LOCAL.





Press () v to select "DRYING TIME", and press the (ENTER) key.



Sets the interval of refresh performed during printing.



Press the FUNC1 (MENU)
FUNC1 key in Local.



Press () to select SETUP 1 to 4, and press the (ENTER) key.

· Setup menu appears.



Press the FUNC1 (<<).



Press () to select "Refresh" , and press the (ENTER) key.



Press () to select a set value, and press the (ENTER) key.

• Set value : Host/Lv.0 to Lv.3.

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

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.



Press the FUNC1 (MENU) + ENTER key in Local.



Press () to select SETUP 1 to 4, and press the ENTER key.

· Setup menu appears.



Press the FUNC1 (<<).



Press () to select "Vacuum Fan", and press the ENTER key.



Press () to select a set value, and press the ENTER key.

· Set value : Host/Weak /Standard/ Strong/ OFF

- If you choose any other option than "OFF" in step 4, press, choose whether to constantly operate the vacuum fan, and press the (ENTER) key
 - ON : Vacuum fan is constantly on.
 - OFF : Vacuum fan is only on when printing or performing jog operation.



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

· When switch the setting 1 to 4 /Temporary or copy the setting, there is a case that the setting screen of vacuum fan is displayed.

Setting of Print Speed

Changes the media feeding speed and scanning spped in printing.



Press the (FUNC1) (MENU) → (ENTER) key in Local. Press (▲) ▼ to select SETUP 1 to 4, and press the (ENTER) key.

Setup menu appears.



Press the (FUNC1) (<<).



Press v to select "Print Speed", and press the ENTER key.

5

Press v to select a setting item, and press the ENTER key. • Set value : Feed Speed / Scan Speed



Press () to select a set value, and press the ENTER key.

Set value of "Feed Speed":10 to 100%
Set value of "Scan Speed":70 to 100%



Press the <u>END/POWER</u> key several times to end the setting.

• Changing the print speed setting may change the color. After changing the print speed, check whether there is any change in color beforehand.

- After changing scan setting, perform dot position correction (
- After changing the feed setting value, perform feed correction ((2) P.3-5).

Setting of MAPS4

If performing media correction does not resolve feeding stripes, use the MAPS (Mimaki Advanced PassSystem) function to disperse the pass boundary to make the feeding stripes less visible.



• Changing the MAPS4 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.

Conditions disabling MAPS function

When the conditions which do not show "MP" in the display during printing is set, MAPS function is disabled. (CPP.2-22)

In addition, by the image to be printed, there is a case that the effects of the MAPS can not be obtained.

Setting MAPS4 Function



Press the FUNC1 (MENU) → ENTER key in Local.



Press rest to select SETUP 1 to 4, and press the ENTER key.

Setup menu appears.



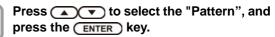
Press the FUNC1 (<<).

4 Press rest to select "MAPS4", and press the ENTER key.



Press velocity to select a set value, and press the ENTER key.

- Set value : AUTO/ MANUAL
- If you have selected "MANUAL", proceed to step 5. Otherwise, proceed to step 9.





6

Press rest to select the "Type", and press the ENTER key.

- Set value : Pattern1, Pattern 2 and Pattern 3
- (Important!

• MAPS4 effect differs depending on image to be printed. Change the printing pattern and use it after checking effect in advance.

Press () to select the "Smoothing Lv.", and press the ENTER key.



8

Press () to change the smoothing level, and press the ENTER key.

- Set Value : 0 to 100% (set in units of 5%)
- The MAPS4 effect become strong as the set value increase, and become weak as the set value decrease.



Press the <u>END/POWER</u> key several times to end the setting.

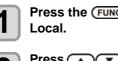
Setting Auto Cleaning

You can set the machine so that it counts the number of printed files or the length or time has been completed, and performs cleaning automatically if required.

You can select the auto cleaning setting from three types below:

- File : Set the cleaning intervals by the number of printed files.
- Length : Set the cleaning intervals by the printed length.

• **Time** : Set the cleaning intervals by the printed time. The machine can perform a stable printing operation with its heads always kept clean.



Press the (FUNC1) (MENU) → ENTER key in Local.



Press v to select SETUP 1 to 4, and press the ENTER key. • Setup menu appears.

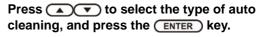


Press the FUNC1) (<<).



5

Press () to select "AUTO CLEANING" , and press the ENTER key.



6

There are "File", "Length" and "Time" for auto cleaning

- File : When the set files 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.
- The color tone may change, depending on the (Important!) timing when auto cleaning is performed. Check in advance that the color tone is not affected.

Press () v to select the "Interval", and press the (ENTER) key.

· 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) : 10 to 100min (in 10min increment) For Time

Press () to select the "Type" and

then press the **ENTER** key. • Set Value : Normal/ Soft/Hard

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

· Depending on the state of the heads, etc., the (Important!) 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 a set time has elapsed, the machine automatically wipes the nozzle surfaces of the head to remove any ink droplets attached to the surfaces.

In case that deflection, nozzle missing, or symptom which ink droplets fall down occurred, set the interval between each operation shorter.

Press the (FUNC1) (MENU) (MENU) (MENU) Local. Press () to select SETUP 1 to 4, and 2 press the ENTER key.

· Setup menu appears.



Press the FUNC1 (<<).

Press () to select "Interval Wiping" , and press the **ENTER** key.



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



Press the ENTER key.



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



• The color tone may change, depending on the timing when periodic wiping is performed. Check in advance that the color tone is not affected.



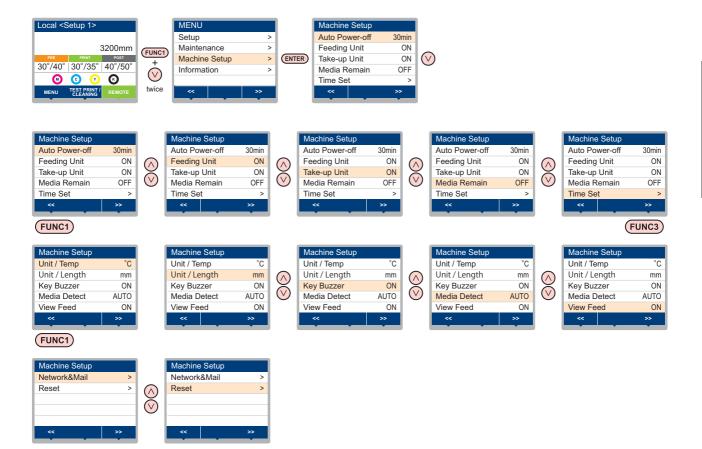
About Machine Setup MENU

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.
 - Sector Select a setting item.
 - (ENTER) : Press this to confirm a setting, etc..

♦ Machine Setup MENUs at-a-glance



Machine Setup MENU table

F	unction nam	ne	Set v	alue	Default	Meaning	
AUTO Pow	er-off (ᢙ P.3	-13)	NONE/ 10 ~ 600min		30min	When no operation has been performed for the set time, the power supply is automatically turned "OFF".	
Feeding Unit (2 P.3-13)		ON/ OFF		ON	You can set the operation method when the ON/ OFF button on the take-up unit is pressed.		
Take-up Un	it (ᢙ P.3-13)		ON/ OFF		ON	You can set the operation method when the ON/ OFF button for the take-up device is pressed.	
Media Rem	TIME (@P.3-14) UNIT/ TEMP. (@P.3-14)		ON/ OFF		OFF	You can control the remaining amount of media.	
TIME (28			+4h ~ -20h			Time difference is corrected.	
			°C (Centigrade)/	"°F (Fahrenheit)	°C	A unit for displaying temperature is set.	
UNIT/ Leng			mm / inch		mm	A unit for displaying length and area is set.	
Key Buzzer	(@P P.3-14)		OFF / ON		ON	A buzzer sound when keys are pressed is set.	
Media Dete	ct (🖓 P.3-15)	AUTO/MANUAL		AUTO	Set the media detection method.	
CONFIRM.	FEED (🖓 P.	3-15)	ON / OFF		ON	Set whether media feeding is performed for checking the result of the test printing etc. or not.	
		Set the netw	vork.			1	
		Check IP Address	The IP address	currently used by	/ this machi	ine is displayed.	
		Check MAC Address	The IP address	currently used by	/ this machi		
	Notwork	DHCP	ON / OFF			When it is ON, the IP address given by the DHCP server is used.	
	Network (@P.3-15)	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 addre	ss used by this r	nachine.	l	
		Def.Gateway *1	Set the default g	ateway used by	this machir	ne.	
		DNS Address ^{*1}	Set the DNS ser	ver address use	d by this ma	achine.	
		SubNet Mask *1	Set the digit num	nber of the subne	et mask use	ed by this machine.	
		Mail Deliverry	ON / OFF		OFF	Set whether you send/ do not send the e-mail when the set event occurs.	
			Print Start	ON / OFF	OFF	Set whether you send/ do not send the e-mail at the start of printing.	
			Print End	ON / OFF	OFF	Set whether you send/ do not send the e-mail at the end of printing.	
Network & Mail		Select Event	Error Event	ON / OFF	OFF	Set whether you send/ do not send the e-mail when an 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.	
	Event Mail	Mail Address	Set the e-mail ac you send the eve	ent mail.	Alphanumeric characters and symbols (within 96 characters		
	(@P.3-16)	Message Subject	Set the characte subject of the ev		Alphanumeric characters and symbols (within 8 characters		
			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	Auth.	POP before SMTP SMTP Auth	Set the SM authentica	MTP server authentication method (SMTP ation).	
	·	ч [,]	OFF	1	, ,		
			USER NAME *2	1	Set the user name used for the authentication.		
			PASS WORD *2		Set the password used for the authentication.		
			POP3 ADDRESS *3		Set the POP server.		
			APOP *3		Set ON/ C	OFF of APOP.	

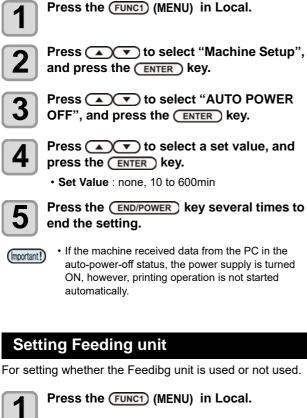
F	unction nam	ne	Set value	Default	Meaning
	Event Mail (@P.3-16)	Transmit Test	Send the test e-mail.		
Network & Mail	Setting Lock	Lock (Password is not set)	0000 to 9999	0000	You can freely specify a four digit password so that no one other than an administrator can
	(CP P.3-20) Unlock (Password is set)		0000 10 9999	0000	perform network and mail settings.
Reset (7 P.3-20)					All setting values are returned to the status default.

Settable when both of DHCP and AutoIP are [OFF] *1.

- *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".







Press rest to select "Machine Setup", and press the (ENTER) key.



Press () To select "Feeding Unit", and press the ENTER key.



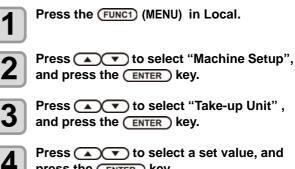
5

Press () to select a set value, and press the (ENTER) key. · Set Value : ON/ OFF

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

Setting Take-up unit

For setting whether the take-up unit is used or not used.



· Set Value : ON/ OFF

Press () v to select a set value, and press the (ENTER) key.



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

Setting the Display of Media Remain

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 displayed amount of a media is a rough indication. It may be different from the actual remaining amount.



 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.(IPP P.2-9)
- The setting configured here does not become effective unless media detection is performed after the setting has been complete.



2

Press v to select "Machine Setup", and press the ENTER key.

Press the FUNC1 (MENU) in Local.

Press () To select "Media Remain",



and press the <u>ENTER</u> key.

Press
Type to select ON/OFF.



6

Press the ENTER key.

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

Setting Time

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



Press the (FUNC1) (MENU) in Local.



Press v to select "Machine Setup", and press the ENTER key.



Press v to select "TIME", and press the ENTER key.



Press (FUNC2) (✓).
You will be able to change the time.



Press (A) () to enter time, and press the ENTER key.

- Year/Month/Day/Time selecting: by the [◀][▶] keys.
- Year/Month/Day/Time inputting: by the [▲][♥] keys.



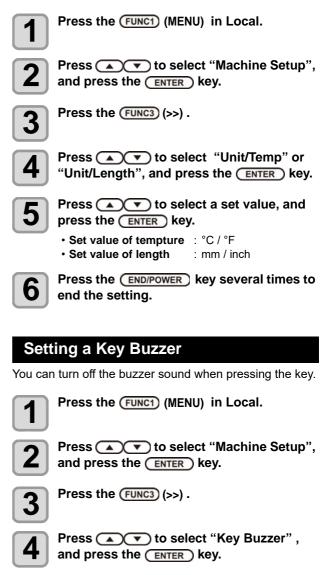
Press the <u>END/POWER</u> key several times to end the setting.



• As for the time difference, -20 hours to +4 hours can be set.

Setting Unit (Temperature/ Length)

Units used by this machine are set.





Press velocity to select a set value, and press the ENTER key.

Set value : ON/ OFF



Press the <u>END/POWER</u> key several times to end the setting.

ř.

• The buzzer sound is not disabled for errors, warnings and/or operation completion even if this setting is set to "OFF".

Setting the Display of Media Detection

Set the following two items in media detection settings.

Press the (FUNCT) (MENU) in Local.	Set the		
 the sensor, set the media detection setting to "MANUAL". When "MANUAL" is selected, the values of "MARGIN (RIGHT/LEFT)" on the SETUP MENU have no effect. (GP P.3-8) Press the FUNCI (MENU) in Local. Press the FUNCI (MENU) in Local. Press the FUNCI (MENU) in Local. Press the FUNCI (>>). Press the FUNCI (>>). Press the FUNCI (>>). Press the FUNCI to select "Media Detect", and press the ENTER key. Press the ENTER key. Press the FUNCI to select AUTO/MANUAL, and press the ENTER key. Press the ENDPOWER key several times to end the setting. Setting the CONFIRM. FEED Set whether media feeding is performed for checking the result of the test printing etc. or not. Press the FUNCI (MENU) in Local. Press the FUNCI (Select "CONFIRM. FEED", and press the ENTER key. Press the FUNCI (>>). 			to detect the media width automatically (AUTO) or decide the print range
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Set the network



Press the (FUNC1) (<<).

Press row to select "Machine Setup" and press the ENTER key.



4

Press To select "Network & Mail" and press the ENTER key.



Press v to select "Network" and press the ENTER key.



Press (A) To select "Check IP Address" and press the (ENTER) key.

• The IP address currently used by this machine is displayed.

 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.



Press v to select "Check MAC Address" and press the ENTER key.

• The MAC address currently used by this machine is displayed.



Press () to select "DHCP" and press the (ENTER) key.

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



Press v to select "AutolP" and press the ENTER key.

• Press "▲""▼" to set ON/ OFF.

• When it is ON, the IP address is determined by the AutoIP protocol. However, DHCP is ON, DHCP has priority.



Press () to select the set values and press the ENTER key.

• Both of DHCP and AutoIP is OFF, you can set IP Address/ Default Gateway/ DNS Address/ Sub Net Mask. For other than above, proceed to the Step 13.



Press (A) (I) to select the set values.

Press ENTER to confirm the value.



12

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 device/ the power supply, etc. Mimaki has absolutely no responsibility for any damages or loss resulting from non-delivery or delays.
- 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

Press the (FUNC1) (MENU) in Local.
Press To select "Machine Setup" and press the ENTER key.
3 Press the (FUNC1) (<<).
Press To select "Network & Mail" and press the ENTER key.
5 Press • • to select "Event Mail" and press the ENTER key.
6 Press rest to select "Mail Deliverry" and press the ENTER key.
Press rest to select "ON" and press the ENTER key.
8 Press the <u>END/POWER</u> key several times to end the setting.

Set the event to send an event mail Press the FUNC1 (MENU) in Local. 1 Press () v to select "Machine Setup" 2 and press the ENTER key. Press the (FUNC1) (<<). 3 Press reserve to select "Network & Mail" Δ and press the ENTER key. Press () to select "Event Mail" and 5 press the ENTER key. Press () v to select "Select Event" 6 and press the (ENTER) key. Press () v to select the event, and press the (FUNC2) (v). • 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.
Peint End	Sets sending/not sending of an email when printing ends.
Error Event	Sets sending/not sending of an email when printing is stopped due to occurrence of an error.
Warning Event	Sets sending/not sending of an email when a warning occurs during printing.
Other Event	Sets sending/not sending of an email when an event other than the above occurs.

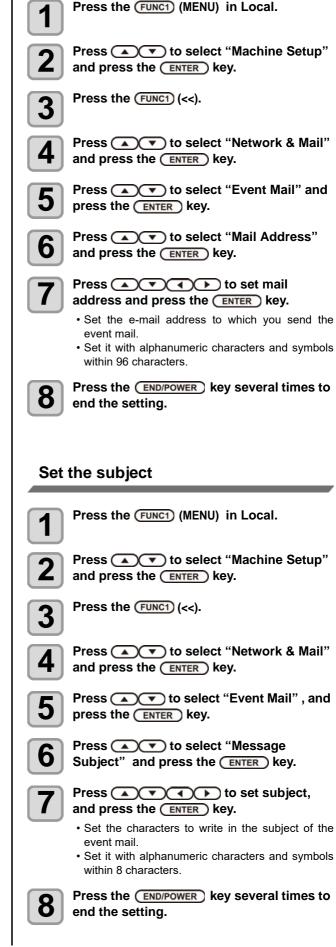


9

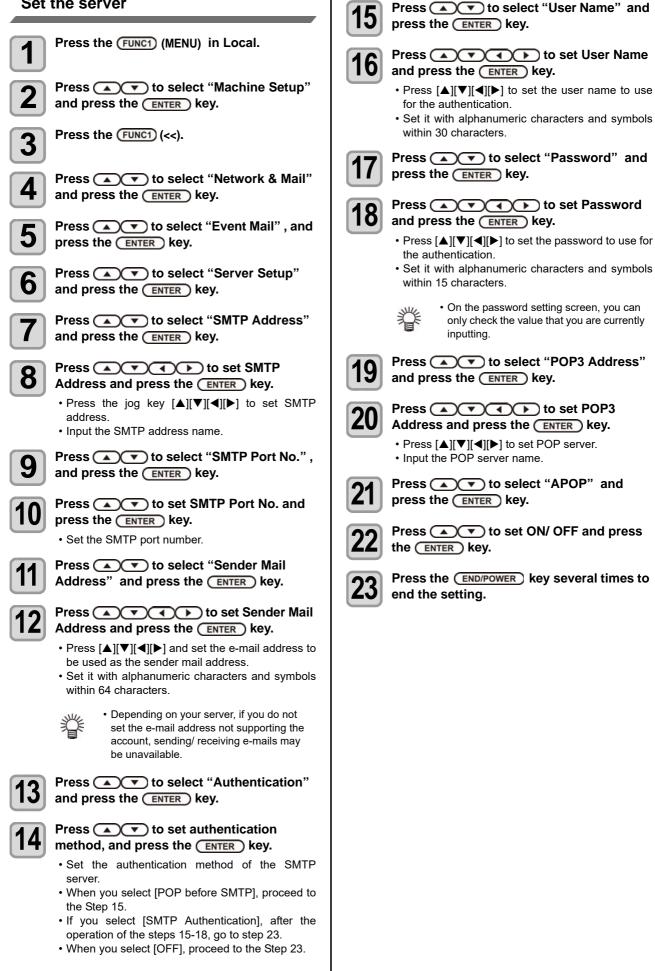
Press the ENTER key.

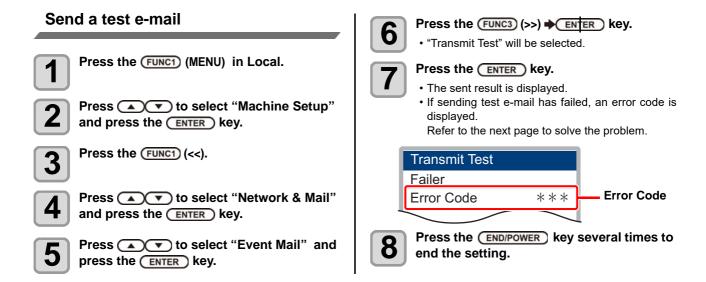
Press the <u>END/POWER</u> key several times to end the setting.

Set the e-mail address



Set the server





- 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.

(Important!)

• For the server setting etc., contact with the network administrator or the provider.

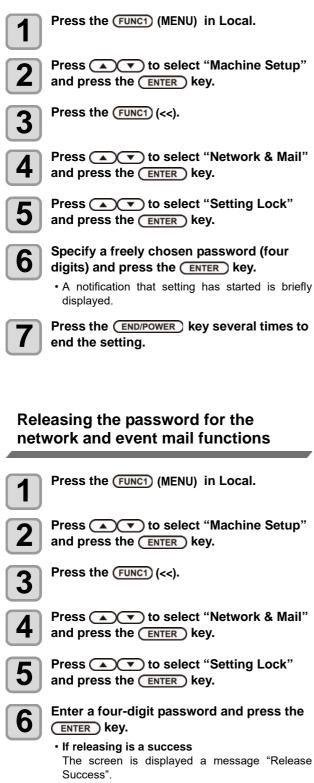
Error Code	The expected casus	Remedy
10	Network connection error	 Check that the machine is connected with the network. Check that the machine IP address is correct. Check that the machine is in the environment where DNS is available.
20	No valid e-mail address.	Enter the correct e-mail address.
11003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

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

Setting the Setting Lock function

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

Specifying the password for the network and event mail functions



• If releasing is a failure The screen is displayed a message "Release failure".

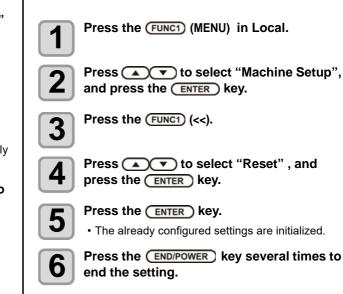


Press the <u>END/POWER</u> key several times to end the setting.

Inportant • If you forget the password, you can press the "[FUNC2] (✓)" key displayed in the screen of Step 7 to display the password forced release screen. Be careful as although you can press the [ENTER] key to forcibly release the password, items set for the network and event mail also return to their initial values, making it necessary to re-specify them.

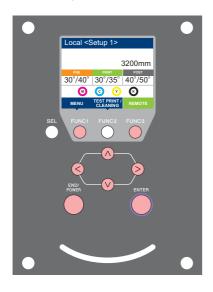
Initializing the Settings

You can return the setting of "SETUP", "Maintenance" and "Machine Setup" to the status before shipment.



About Information MENU

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



- FUNC3
- FUNC1 : Press this to select Information MENU, or to switch to the previous screen.
 - : 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

ltem		Description	
	WIPING	This displays how many wipings have been done.	
USAGE	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 machine has been used to date.	
VERSION		This displays the version information of this machine.	
Ink REPL. Report		This prints ink history of this machine.	
List		This allows you to print the settings of this machine.	
ERROR HISTORY	ERROR HISTORYThis displays the history of errors and warnings to date.When you press [▲][▼], the date of occurrence (year/month/day/hour/minute) and warning information are displayed alternately in the order of occurrence.		

Displaying the Information



Press the (FUNC1) (MENU) in Local.



Press v to select "Information ", and press the ENTER key.

Information MENU appears.



Press () to select a information.

• Refer to the "Information MENU", and select the information to be displayed.



Press the ENTER key.

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



Press the <u>END/POWER</u> key several times to end the setting.

Resetting wiper use count



"USAGE" of Information Menu is displayed.

(1) Press the [FUNC1] (MENU) in Local
(2) Press [▲][▼] to select "Information", and press the [ENTER] key twice.



3

Press \checkmark to select "WIPING ", and press the (FUNC2) (\checkmark).

• A confirmation screen appears asking if you want to clear the use count of the wiper.

Press the ENTER key to clear the counter.

• The use count of the wiper is cleared.

Displaying the Information of this machine



Press the ENTER key in Local.



The information is displayed sequentially with the ENTER (or ())key.

• The information shown on the below appear.

CS100

2. 3.

Ink information

 if the sub tank error has occurred, press the [F2] key to display the number of the sub tank that error occurs.
 Error/ Warning (Only at the time of occurrence)



90% No Error

70% No Error

 $\overline{\mathbf{A}}$

0 80% No Error

4. 🕅 82% No Error

Machine information (Media width/ Serial No. /Version)

Serial No. '00000000 SWJ-320EA V1.00

3200m

Media width

Expiration date of ink

Ink Expiration	
M	17/01
С	17/01
Y	17/01
K	17/01

Nozzle recovery

Nozzle Recovery	
М	0
С	0
Y	0
К	0



Press the <u>END/POWER</u> key to return to Local.

Setting a Language

You can change the displayed language.



Press the (FUNC1) (MENU) → (FUNC1) (<<) → ENTER key in Local.

• Language MENU appears.



Press () v to select language, and press the ENTER key.

• Set Value :日本語 / English / Español / Português / 中文



Press the <u>END/POWER</u> key several times to end the setting.

3-24

Chapter 4 Maintenance

This chapter

describes the items required to use this machine more comfortably, which are the methods for the daily care, the maintenance of the ink unit etc.

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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.

	 When using cleaning solution for maintenance, be sure to wear the included safety glasses and gloves.
\bigotimes	 Never disassemble the machine.Disassembling it can result in electric shock hazards or damage to the machine. Before maintenance, be sure to turn off the power button and main power switch, and unplug the power cable;otherwise, an unexpected accident may occur.
	• Prevent moisture from entering the machine.Moisture inside the machine can cause electric shock hazards or damage to the machine.
0	 To ensure stable ink jetting, it is necessary for the machine to eject a small amount of ink (flushing) regularly when a printing (outputting) operation has not been performed for a long time. When the machine is not to be used for a long time, turn off only the power button on the front side, leave the main power switch at the side turned ON (in the position of), and leave the power cable connected.
\bigcirc	 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.

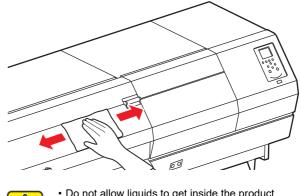
About Cleaning Solution

Use the cleaning liquid dedicated for the ink being used.

Type of Ink	Applicable maintenance washings
	Cleaning solution kit200 (SPC-0369)(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.

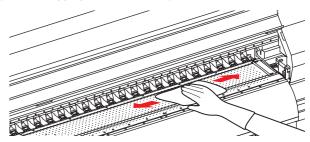


Caution

• Do not allow liquids to get inside the product. Ingress of liquids into the product may lead to failure, electric shock, or fire.

Cleaning the Platen

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.).





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

• Do not allow liquids to get inside the product. Ingress of liquids into the product may lead to failure, electric shock, or fire.



• When the platen is stained with ink, wipe it off with a paper towel containing a small amount of cleaning solution for maintenance.

- Before cleaning the platen, make sure that the platen heater has cooled adequately.
 When cleaning the platen, do not apply strong force to the platen or wipe it with a hard cloth.
- Doing so may damage or deform the platen, causing poor printed image. If the deformed platen is used, the media may meander and the print head may be damaged.

⁽Important!)

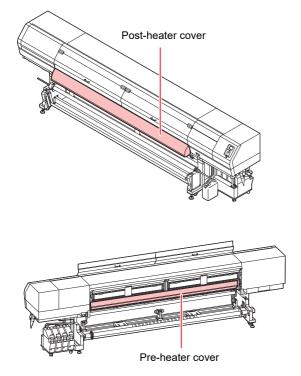
Cleaning The Heater Cover

The pre-heater cover and the post-heater cover become more likely to become dirty with media powder and the like.

If dirt is conspicuous, include soft cloth with water or diluted neutral detergent, tightly squeezed and wipe it.



• Clean the heater cover, after lower the heater temperature sufficiently.



Cleaning the Media Sensor

The media sensors are located on the platen in the backside (3 places) and the bottom surface of the head (1 place). When the sensor is covered with dust, etc., it may cause false detection of media.

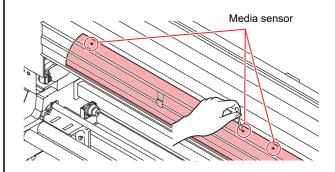
Using a cotton swab, remove the dust, etc. accumulated on the surface of the sensor.

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 clean it.

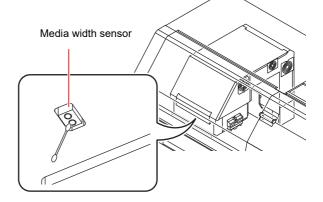


• Do not press against the sensor with the cotton swab. Doing so could damage the sensor.

The backside of the machine







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 with a dry cloth or paper towel.

If there is ink on the media press, wipe it away with a clean stick dipped in washing liquid for maintenance.

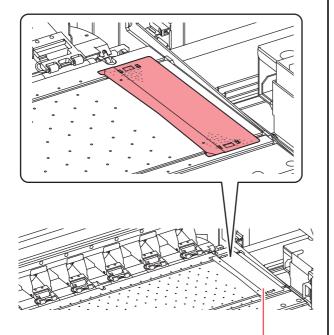


• Turn off the main power and unplug the power cable before maintenance.

• Do not allow liquids to get inside the product. Ingress of liquids into the product may lead to failure, electric shock, or fire.



 When using washing liquid for maintenance, be sure to wipe it away completely so that none remains on the media press.



Media press

About Maintenance MENU

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



(FUNC1)
FUNC2
FUNC3
$\bigcirc \bigcirc$
ENTER

- :Press this to select Maintenance MENU, or to switch to the previous screen.
- :Press this to use the maintenance function.
- :Press this to switch to the next screen.
- 3) :Use these to select a setting item.
-) :Press this to confirm a setting, etc..

Maintenance MENUs at-a-glance



Press the FUNC2 key to perform "Station maintenance". The Station MENU can be displayed easily without selecting [MENU]-[Maintenance] from Local. Press the [SEL] key to display "TEST PRINT/CLEANING" for [FUNC2], and then press the [FUNC2] key.

Local <setup 1=""></setup>									
		Test Print	>		Test Print	>		Test Print	>
3200mm		Cleaning	>	_	Cleaning	>		Cleaning	>
PRE PRINT POST 30°/40° 30°/35° 40°/50°	FUNC2	Station	>	\bigcirc	Station	>	\bigtriangledown	Station	>
MENU TEST PRINT / REMOTE									

4

Maintenance MENUs at-a-glance

ŀ	tem	Set value	Meaning
	For carrying out mainte	nance on the carr	age and station periphery.
	Carriage Out (ᢙ P.4-7)		Moves the carriage out, for carrying out cleaning of the cap periphery, head, wipers, etc.
	Nozzle Wash (ᢙ P.4-12)	1 to 15min	Soaks the nozzle surfaces in maintenance cleaning fluid, for carrying out recovery from nozzle missing or bent.
Station	Pump Tube Wash (ᢗᢓ P.4-8)		Executes washing of the suction pump tubes.
	Custody Wash (ᢉ P.4-9)	1 to 15min	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.
	Replace Wiper (ᢙ P.4-19)		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.
	For printing using anoth	ner nozzle, if nozzl	e wash and so forth fail to effect recovery from nozzle missing, etc.
	PRINT		Used to print a pattern and to check and/or register clogged nozzles.
Nozzle Recovery (@P.4-13)	ENTRY		Registers the faulty nozzle identified by "PRINT".
(~~~)	CLEAR		Resets a registered faulty nozzle.
	CHECK		Checks recoverable printable conditions.
	For having the various maintenance function.	maintenance func	tions executed automatically. Set the execution interval for each
Auto Maint. (🏠 P.4-15)	Refresh	OFF/ <u>Lv.1</u> /Lv.2/ Lv.3	Set the interval of the refresh activation.
	Cleaning	OFF/ <u>Lv.1</u> /Lv.2/ Lv.3	Set the activation interval of the head cleaning.
Sub Tank (@P.5-4	4)	·	Used to charge ink and to solve the problems including ink errors and nozzle missing .
Air PG (P.5-4)			Removes any air inside the print head causing poor discharge.
Replace Ink Tank (₽ P.4-21)		Used to replace an ink tank and to reset the ink charge information.

Maintaining the Capping Station

Maintain the ink cap, wiper, etc. located in the capping station. (Station maintenance)

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 ((2) P.2-19) has been performed, use a Washing liquid for maintenance and clean stick.

Tools required for	or Maintenance
Cleaning solution kit200 (SP	C-0369)
Clean stick (SPC-0527)	
Gloves	 Safety glasses



 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 [FUNC2] (TEST PRINT/ CLEANING) key to execute the carriage-out.
 (@P P.4-7Steps 1 to 2)
- Be sure to perform maintenance for the ink cap and the wiper of capping station every day.
 If you leave it dirty, dirt may adhere to the nozzle surface, or, dust and dry ink may be rubbed against the nozzle. It may cause discharge defect.

Cleaning 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.



• When work is complete at the end of the day, clean the wipers and surrounding areas.

- Replace the wiper with a new one when it is extremely dirty or bent. (P.4-19)
- 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.



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



Press v to select "Station", and press the ENTER key.

• The Station MENU appears.

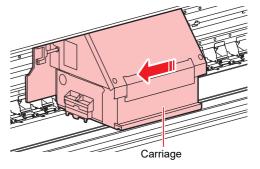


Press (A) T to select "CARRIAGE OUT", and press the ENTER key.



Press v to select "Station", and press the ENTER key.

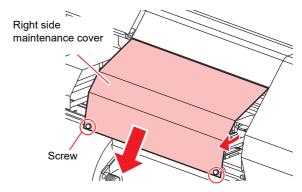
• Press the [ENTER] key in the Execution Check screen, and the carriage moves over the platen.





Open the right side maintenance cover.

- (1) Rotate the screws under the right side maintenance cover (for two positions) to the left and remove them.
- (2) Hold the bottom of the right side maintenance cover and pull it to the front.
- (3) While pulling the right side maintenance cover downward, remove it.
- If the right side maintenance cover is hard to remove, use the supplied screwdriver.

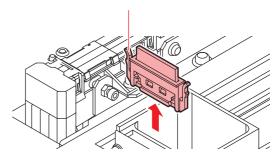




Remove the wiper.

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

Projection

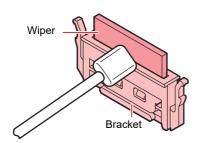




Clean the wiper and bracket.

• Wipe off the ink sticking to the wiper and bracket with a clean stick dipped in cleaning solution for maintenance.

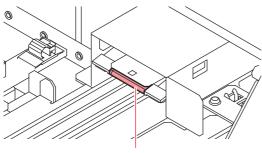
Wipe off so that cleaning solution for maintenance will not remain.





Clean the wiper cleaner.

• Wipe off the ink sticking to the wiper cleaner with a clean stick dipped in cleaning solution for maintenance.

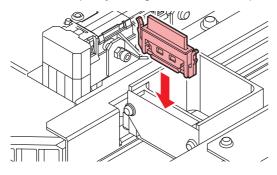


Wiper cleaner



Set the wiper at the original position.

• Insert the wiper by holding both ends of the wiper.

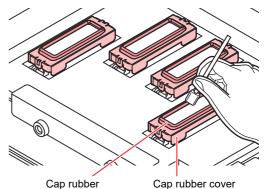




Clean the cap rubber and cap rubber cover.

• Wipe off the ink sticking to the cap rubber and cap rubber cover with a clean stick dipped in cleaning solution for maintenance.

Wipe off so that cleaning solution for maintenance will not remain.



11

Close the right side maintenance cover then press the **ENTER** key.

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

Performing the Station without [FUNC2] (TEST PRINT/CLEANING) key

You can select Station by using the [FUNC1] (MENU) key in the Local without pressing the [FUNC2] (TEST PRINT/ CLEANING) key.

- (1) Press the [FUNC1] (MENU) key in Local.
- (2) Press [▲][▼] to select "Maintenance", and press the [ENTER] key.
- (3) Press [▲][▼] to select "Station", and press the [ENTER] key.
 - The Station MENU appears. Then proceed to step 3.

Washing the Ink Discharge Passage

Wash the ink discharge passage on a regular basis (once every 2 - 3 months) to prevent ink coagulation from clogging the passage.



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



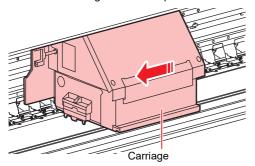
Press v to select "Station", and press the ENTER key.

• The Station MENU appears.



Press v to select "Pump Tube Wash", and press the ENTER key.

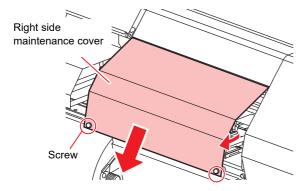
- Press the [ENTER] key in the Execution Check screen, and the carriage moves over the platen.
- Dry suction operation is performed repeatedly until the washing work is completed.





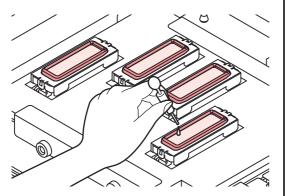
Open the right side maintenance cover.

- (1) Rotate the screws under the right side maintenance cover (for two positions) to the left and remove them.
- (2) Hold the bottom of the right side maintenance cover and pull it to the front.(2) While pulling the right side maintenance.
- (3) While pulling the right side maintenance cover downward, remove it.
- If the right side maintenance cover is hard to remove, use the supplied screwdriver.





Suction the cleaning solution into a syringe and squirt about three syringes worth of solution into each cap.



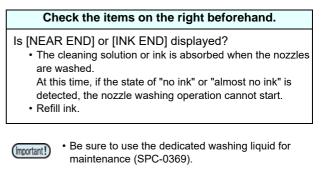


Close the right side maintenance cover and press the <u>ENTER</u> key.

• After running a dry suction for a certain period of time?the screen returns to step2.

When the Machine Is Not Used for a Long Time (Custody Wash)

When the machine is not going to be used for a week or more, use the cleaning function for custody to clean the head nozzles and ink discharge passage.After this, keep the machine in custody.



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



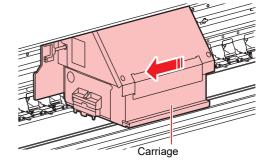
Press v to select "Station", and press the ENTER key.

• The Station MENU appears.



Press vert to select "Custody Wash", and press the ENTER key.

• Press the [ENTER] key in the Execution Check screen, and the carriage moves over the platen.



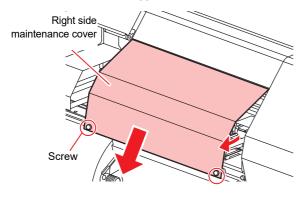
(Important!)

• Until wiper/ bracket cleaning is competed, [Please clean the wiper.] is displayed on the screen. After the work up to the step 5 is completed, press the [ENTER] key.



Open the right side maintenance cover.

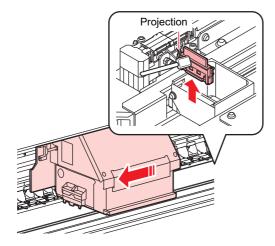
- (1) Rotate the screws under the right side maintenance cover (for two positions) to the left and remove them.
- (2) Hold the bottom of the right side maintenance cover and pull it to the front.
- (3) While pulling the right side maintenance cover downward, remove it.
- If the right side maintenance cover is hard to remove, use the supplied screwdriver.





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

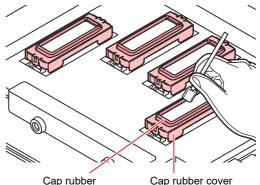
- (1) Open the right maintenance cover then pull out it by holding projections at both ends of the wiper.
- (2) Clean with a clean stick including the cleaning solution (SPC-0369: Cleaning solution).
 - Wipe off so that maintenance washing liquid for maintenance will not remain.
- (3) Insert it in the original position by holding the projections at both ends of the wiper.





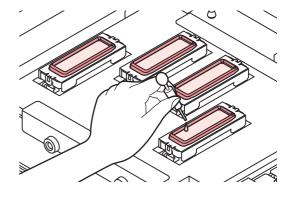
Clean the cap rubber and cap rubber cover and press the <u>ENTER</u> key.

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



Fill up the cap with cleaning solution for maintenance, using a dropper.

• Fill the cap with the cleaning solution just before the solution overflows from the cap.





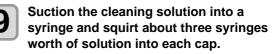
• Until washing liquid is filled, [Fill the liquid.] is displayed on the screen.

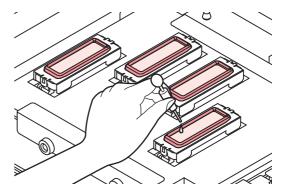


7

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

- The nozzles are washed.
- When the nozzles have been completely washed, the head moves onto the platen.







Close the right side maintenance cover and press the <u>ENTER</u> key.

• After the idle absorbing operation has been performed for 30 seconds, the screen 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.

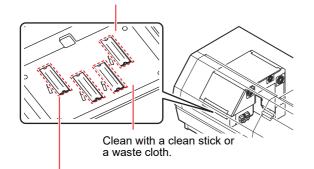
Tools require	d for cleaning
Clean stick (SPC-0527)	Gloves
 Safety glasses 	
gloves when cleani head.Otherwise, you • The ink contains or	e attached safety glasses and ng the area around the ink ou may get ink in your eyes. ganic solvent.If you get the ink our eyes, wash it away with nediately.
	(TEST PRINT/CLEANING), ITER key in Local.
Press to to press the ENTER • The Station MENU	-
OUT", and press to	select "CARRIAGE he <u>Enter</u> key.
Press rto MAINTENANCE", key.	select "HEAD and press the <u>ENTER</u>
• Press the [ENTER] key in the Execution Chec rriage moves to the left end c
 (1) Rotate the sc maintenance co the left and remo (2) Hold the bottom 	of the left maintenance he cover toward you from
 If the left side m remove, use the su 	aintenance cover is hard t pplied screwdriver.
Left side maintenance cover	



Wipe ink sticking to the side of the head off with a clean stick.

Never rub the nozzles.

Clean the side surface of the head (shown in deep gray) with a clean stick.



The nozzle part (Never touch it.)



After the cleaning, close the left side maintenance cover then press the <u>ENTER</u> key.

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

When nozzle missing Cannot Be Solved

When nozzle missing cannot be solved even after the head cleaning (IP P.2-19) has been done, perform the following three functions:

Nozzle Wash	• Wash the head nozzle. (2 P.4-12)
Nozzle Recovery	 Alternative nozzles for printing, when nozzles missing can not be improved. (@P P.4-13)
Sub Tank	 Fill the head with ink. (

Washing the Head Nozzle

Perform cleaning of the nozzles in the heads to prevent them being clogged with coagulated ink.



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



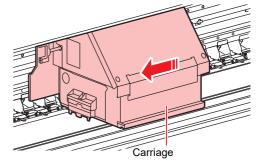
Press v to select "Station", and press the ENTER key.

• The Station MENU appears.



Press v to select "Nozzle Wash", and press the ENTER key.

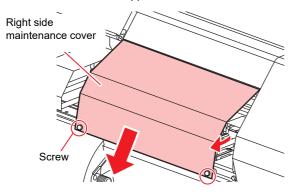
• Press the [ENTER] key in the Execution Check screen, and the carriage moves over the platen.





Open the right side maintenance cover.

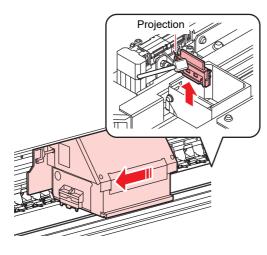
- (1) Rotate the screws under the right side maintenance cover (for two positions) to the left and remove them.
- (2) Hold the bottom of the right side maintenance cover and pull it to the front.
- (3) While pulling the right side maintenance cover downward, remove it.
- · If the right side maintenance cover is hard to remove, use the supplied screwdriver.





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

- (1) Pull out it by holding projections at both ends of the wiper.
- (2) Clean with a clean stick including the cleaning solution (SPC-0369: Cleaning solution).
 - · 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.



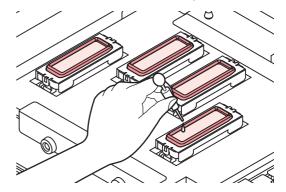


Clean the cap rubber , and press the (ENTER) key.

- · 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.

Fill up the cap with cleaning solution for maintenance, using a dropper.

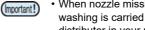
· Fill the cap with the cleaning solution just before the solution overflows from the cap.





Close the right side maintenance cover and press the (ENTER) key.

- Perform the capping operation and wait 1 minute.
- · The display provides a countdown display.
- When the resting time has passed, the machine absorbs the cleaning solution filled in the cap, and performs cleaning. Then the machine returns to the display in step 2.



· 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.

Nozzle Recovery Function

Nozzle Recovery: When nozzles missing can not be improved at specific points, other good nozzles can be used as alternatives for printing.

Print the nozzle pattern

Used to print a pattern and to check and/or register clogged nozzles.



Press the (FUNC1) (MENU) in Local.

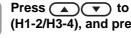
Press $(\mathbf{A}) (\mathbf{\nabla})$ to select "Maintenance", and press the **ENTER** key. · Maintenance MENU appears.



Press () v to select "Nozzle Recovery", and press the (ENTER) key.



Press the (ENTER) key.



Press rest to select desired head(s) (H1-2/H3-4), and press the ENTER key.

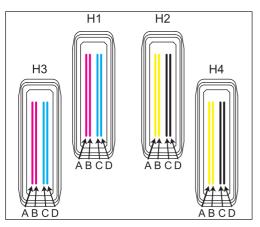


(Important!)

Press the ENTER key twice.

Printing of the nozzle pattern will start.
Select "ENTRY" then "Move to select of the Nozzle line (Step 5) without drawing a pattern"

Overhead view (4-colors inkset)



Nozzle pattern of Head 1 and 2(4-colors inkset)

H1-A	H1-B	H1-C	H1-D	H2-A	H2-B	H2-C	H2-D

• Set a media of more than 210mm put horizontally. If a media with narrow width is set, printing will only be conducted to midway.

Select the Nozzle line that needs Nozzle Recovery by pressing , and press ENTER key.

 SELECT ENTRY NOZZLE

 Head No.
 H1

 (H1 to H2)
 H1

 H1
 C

 H1
 D

 >

E	0
L	X

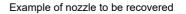
Register the Nozzle number that needs Nozzle Recovery and then press ENTER key.

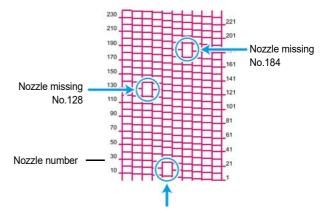
- (1) Select the registration number from 1 to 10 by pressing [▲][▼] key and press the [ENTER] key.
- (2) Register the nozzle number that needs recovery by pressing [▲][▼] key and press the [ENTER] key.

Head	1-A	
No.1		16
No.2		128
No.3		184
No.4		OFF
No.5		OFF
		>>

Recovery nozzle No. or OFF

Registration number : 1 to 10







Registration number	Recovery Nozzle No.	State
1	16	Target for nozzle recovery
2	128	Target for nozzle recovery
3	184	Target for nozzle recovery
4	OFF	No registration
5	OFF	No registration



Press the <u>END/POWER</u> key several times to end the setting.

Important!

- Up to 10 nozzles can be registered per 1 nozzle line.
- Even if you use this function, time required for drawing does not change.
- The nozzle recovery is not reflected if printing is performed under the following conditions:

ĺ	Resolution	Pass	Scan speed
	300x600	2 pass	Normal

Check the print condition for which nozzle recovery cannot be performed

Depending on the nozzle registered, there is the mode not reflected by "RECOVERY".

Check the unrecoverable print conditions with the check function.

· If there are many registered nozzles, it takes time (Important!) to display the check result.



Press the (FUNC1) (MENU) in Local.



Press () v to select "Maintenance", and press the (ENTER) key.

· Maintenance MENU appears.



Δ

Press () v to select "Nozzle Recovery", and press the **ENTER** key.

Press () v to select "CHECK", and press the (ENTER) key.

- · The mode for which nozzle recovery is invalid is displayed.
- If there is no mode for which nozzle recovery is invalid, "NONE" is displayed.

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

Clear the set value

1	Press the (FUNC1) (MENU) in Local.
2	Press v to select "Maintenance", and press the ENTER key. • Maintenance MENU appears.
3	Press () v to select "Nozzle Recovery", and press the ENTER key.
4	Press () to select "CLEAR", and press the ENTER key.
5	Press A and FUNC1 (>>) FUNC3 (<<) to selet the Nozzle line that need clear,

) (>>) (FUNC3) that need clear, and press the (ENTER) key.

· A clearconfirmation message appears.



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

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 Maint. functions, the following items can be set:



• 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	Sets the refresh level.	
Cleaning	Sets the head cleaning level.	



- · If an ink tank error occurs, the operation set by the Automatic Maintenance function is not performed. Release the error. (2 P.5-11)
- During the execution of automatic maintenance, ink flows into the waste ink tank. Check the amount of ink in the waste ink tank every day, and discard the ink if necessary. (2 P.4-16)

Setting the Refreshing level

For nozzle clogging prevention, set the amount of some ink to be discharged from the nozzle.



Press the (FUNC1) (MENU) in Local.



Press () to select "Maintenance", and press the (ENTER) key.

· Maintenance MENU appears.



Press () v to select "Auto Maint.", and press the **ENTER** key.



Press the (ENTER) key.

· "Refresh" will be selected.



Press () To set the refresh level, and press the (ENTER) key.

• Set value : OFF/Lv.1/Lv.2/Lv.3



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

Setting the Cleaning level

The head cleaning level is set.



Press the FUNC1 (MENU) in Local.



Press v to select "Maintenance", and press the ENTER key. • Maintenance MENU appears.



Press v to select "Auto Maint.", and press the ENTER key.



Press v to select "Cleaning", and press the ENTER key.



Press v to select the cleaning level, and press the ENTER key. • Set value : OFF/Lv.1/Lv.2/Lv.3



Press () to select the cleaning type, and press the ENTER key. • Set value : Soft/ Normal/ Hard



Press the <u>END/POWER</u> key several times to end the setting.

Discarding waste ink

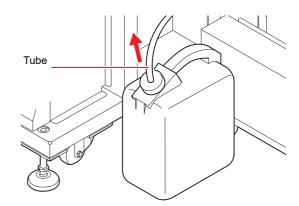


- Discard waste ink frequently. If left for a long time, the ink in the waste ink tank may be cured or overflow.
- When disposing of the waste ink, be sure to wear attached safety glasses and gloves to perform the work. Otherwise, you may get ink in your eyes.
- If you get the ink on your skin or in your eyes, wash it away with plenty of water immediately.



Remove the waste ink tank.

- Pull out the tube inserted into the waste ink tank, and take out the waste ink tank.
- When pulling out the tube, ink may drop from the tip of the tube. Wipe the tube with waste cloth and cover the tip before starting work.





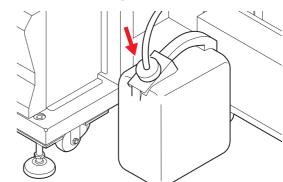
Replace the waste ink tank.

- Prepare a new waste ink tank.
- aution
- Request the treatment of waste ink for an industrial waste disposal contractor.
- A part of the ingredients (photo polymerization initiator) has toxicity against aquatic organisms. Please prevent leakage flow to natural water systems (river, etc.) and domestic sewages (toilet, road, etc.)



Return the empty waste ink tank to the original position.

• Reinsert the tube pulled out.





Reset the waste ink counter.

- (1) Press [SEL] key twice to display the (WASTE (1) Press [EEE] key kille to display the killed also in the line of t

For waste ink remaining management

In this machine informing the remaining amount of the waste ink tank (as a guide) on the display.

1

Loool Cotup 1	Amount of waste ink	
Local <setup 1=""></setup>	Ĺ.	0-9% of the waste ink has accumulated in the tank
3200mm		10-29% of the waste ink has accumulated in the tank
$\begin{array}{ c c c c c } \hline PRE & PRINT & POST \\ \hline 200^{\circ} / 40^{\circ} & 200^{\circ} / 250^{\circ} & 400^{\circ} / 500^{\circ} \\ \hline \end{array}$		30-49% of the waste ink has accumulated in the tank
30°/40° 30°/35° 40°/50°	Ä	50-69% (NEAR FULL) Waste ink is nealy full. Recommend to discard as soon as possible.
MENU TEST PRINT / REMOTE		70%- (FULL) Waste ink tank is full. Dispose waste ink promptly.

For the operation limitation by the amount of waste ink

According to the amount of waste ink that has accumulated in the waste ink tank, there are items that will not be able to operate in this machine.

Discarding waste ink diligently is recomended.

Error Message	Operation restriction	Solution
Local <setup 1=""> WASTE INK NEAR FULL PRE POST 30°/40° 30°/35° 40°/50° Image: Solution of the set of the</setup>	No	It can be used as they are, but waste ink tank would be immediately full. Dispose the waste ink as soon as possible. Dispose of waste ink according to regional laws and regulations.
Local <setup 1=""> WASTE INK FULL PRINT POST 30°/40° 30°/35° 40°/50° Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Colspan="2">Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Image:</setup>	Following operations will not be activated. • Operation using ink • Print • Remote transition • If occurs during printing, transit to local after printing completion	Replacing the waste ink tank referring to the manual Chapter 4 "Discarding waste ink" Then, please reset the waste ink tank. Dispose of waste ink according to regional laws and regulations.

Adjust the waste ink

Amount of waste ink that is displayed on the display is only a "guideline".

The amount may be different from the amount acutally accumulated.



Press SEL key twice to display the (WASTE INK TANK) to [FUNC2]



Press (FUNC2) (WASTE INK TANK)



Press () v to adjust the amount of waste ink

· Adjust to match the actual amount of waste ink.

ŗ	Set to 0%
ſ,	Set to 10%
í D	Set to 30%
Ţ,	Set to 50%
, in the second	Set to 70%



Press ENTER key

Replacing consumables

Replacing the wiper

The wiper is consumable. When the warning message "Replace a WIPER" is displayed, it is necessary to replace the wiper, immediately replace the wiper with a new one.

Also, wipe ink sticking to the lower surface of the wiper cleaner off.



• A cleaning wiper (SPA-0193) is an option.Buy one through the dealer in your region or at our service office.



Press the (FUNC2) (TEST PRINT/CLEANING) in Local.



Press the ENTER key.



Press () to select "Station", and press the (ENTER) key.

Press () vo select "Replace Wiper",



5

Press the ENTER key.

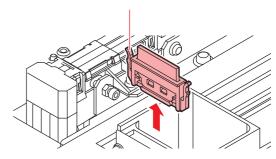
- · The carriage moves onto the platen. • The number of times when the wiper was used is reset.
- · Until the replacement work is completed, (Important!) [COMPLETED] is displayed on the screen. After the work up to the Step 3 is completed and you close the right side maintenance cover, press the [ENTER] key.



Open the rght maintenance cover then remove the wiper.

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

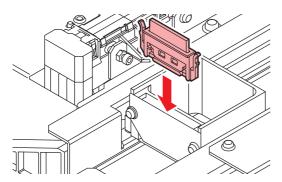
Projection





Insert a new wiper.

- Insert a new wiper by holding its both ends.
- There is no direction to the wipers. They can be inserted with either side facing forward.





Close the right side maintenance cover and press the ENTER key.

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

Replacing the Mist Fan Filter (H fan filter)

Replace it once a month.



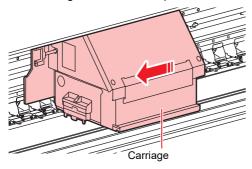
2

3

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

Press (To select "Station", and press the ENTER key.

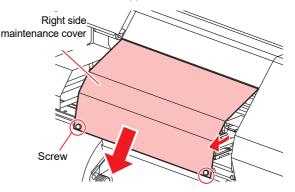
- The Station MENU appears.
- Press v to select "CARRIAGE OUT", and press the ENTER key twice.
- The carriage moves onto the platen.





Open the right side maintenance cover.

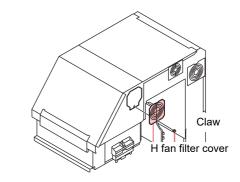
- (1) Rotate the screws under the right side maintenance cover (for two positions) to the left and remove them.
- (2) Hold the bottom of the right side maintenance cover and pull it to the front.
- (3) While pulling the right side maintenance cover downward, remove it.
- If the right side maintenance cover is hard to remove, use the supplied screwdriver.





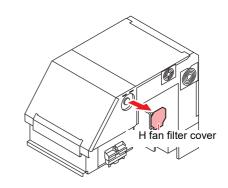
Remove the H fan filter cover at the right side of the carriage.

• Remove the screw on the H fan filter cover before removing the cover.





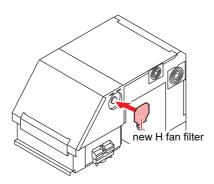
Remove the used H fan filter cover.





Mount a new H fan filter (SPC-0766).

• Align the hole in the H fan filter with the screw hole.





Return the H fan filter cover to the original status.



Close the right side maintenance cover, and press the **ENTER** key.

(Important!)

 Ink at printing adheres to the H fan filter ASSY.
 When replacing the filter, it is recommended to perform the work with a sheet of paper placed.

Replace the ink tank

To keep the ink in good quality in the ink tank, you need to replace the ink tank annually. When an appropriate warning message appears, be sure to replace tank in the following procedure:



• When this function is executed, the remaining charge of the selected ink becomes 0, and unused ink to be charged cannot be used. Be sure to use up the ink to be charged before executing the instinct function.



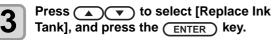
 Be sure to wear the accompanying gloves and protective safety glasses before working. The ink may get in your eyes.



Press the (FUNC1) (MENU) in LOCAL.



Press () v to select [Maintenance], and press the (ENTER) key.





Press v to select a desired ink tank, and press the ENTER key.

• The display shows a confirmation screen prompting to replace the ink tank and the type and the expiration date (year and month) of the ink contained in the ink tank to be replaced.



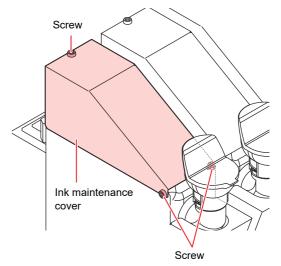
If there is no problem on the confirmation screen, press the $\underbrace{\mbox{ENTER}}$ key.

• This resets the ink charge information embedded in this machine.



Remove the ink maintenance cover for the ink tank selected in step 4.

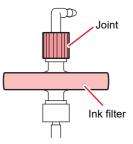
• Loosen the screws attached to the ink maintenance cover both sides, remove the screw that is attached to the top surface.





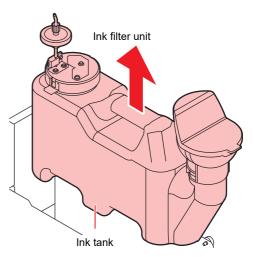
Replace the ink tank.

- Cover the surrounding area with waste cloth for protection against dirt before changing the ink tank.
- Remove the ink filter attached to the ink tank.
 Loosen the joints on the top of the ink filter, and remove the filter.



(2) Remove the ink tank.

• Take care not to tilt the ink tank greatly when removing the tank. It may cause ink leakage from the cap.



(3) Set a new ink tank, and mount the ink filter.Tighten the joints on the top of the ink filter.



- Do not tighten the joint too much. Otherwise, the filter might be damaged. Be careful.
- Do not pour the ink remaining in the removed ink tank into the new tank.
- Request that an industrial waste disposal company process the disposal ink.
- When the tube and cover are in contact, there are times when the amount of ink can not be accurately detected. So as not to contact to the utmost as shown in the figure below, please be careful for the direction of the joint.





Refer to "Fill ink in the ink tank and charging" on.

Replacing the cap absorber

Replace once a year or when ink is adhering to approximately 50% of absorber surface.



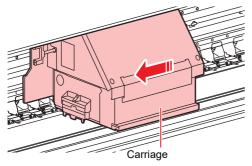
Press the (FUNC2) (TEST PRINT/CLEANING), and press the (ENTER) key in Local.

- Press to select "Station", and press the ENTER key.
 - The Station MENU appears.



Press v to select "CARRIAGE OUT", and press the ENTER key twice.

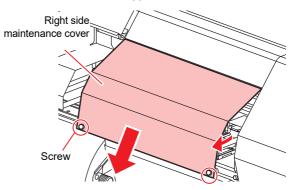
· The carriage moves onto the platen.





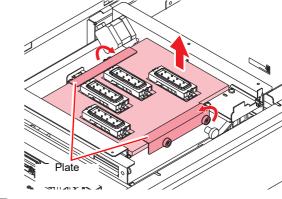
Open the right side maintenance cover.

- (1) Rotate the screws under the right side maintenance cover (for two positions) to the left and remove them.
- (2) Hold the bottom of the right side maintenance cover and pull it to the front.
- (3) While pulling the right side maintenance cover downward, remove it.
- If the right side maintenance cover is hard to remove, use the supplied screwdriver.



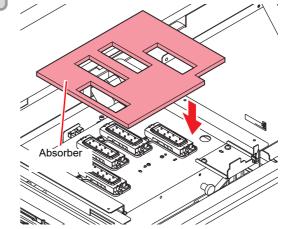


Remove the plates (front and rear) retaining the absorber.





Install a new absorber.





8

Tighten the screws while pressing in.

Close the right side maintenance cover, and press the <u>ENTER</u> 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.

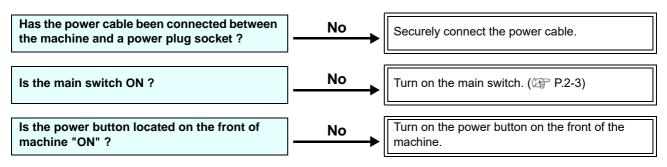
Troubleshooting	5-2
Power does not turn on	
The machine does not start printing	5-2
Media get jammed / media is soiled	
Image quality is poor	5-3
Nozzle is clogged	5-3
Ink tank warning appears	5-4
When the ink leakage occurs	5-4
If an error related to the Sub Tank occurs (Error 618 to 61b)	5-4
If nozzle missing due to color mixture of ink or aeration	5-4
When media heaves up at feeding	5-6
Warning / Error Messages	5-7
Warning messages	
Error messages	

Troubleshooting

Take appropriate actions as described below before taking the trouble as a failure. If still the problem is not solved after troubleshooting, contact your dealer or an office of MIMAKI.

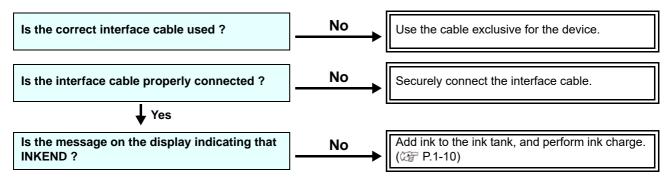
Power does not turn on

In most cases, this is due to improper connection of the power cable for the machine or computer. Check that the power cable is connected properly.



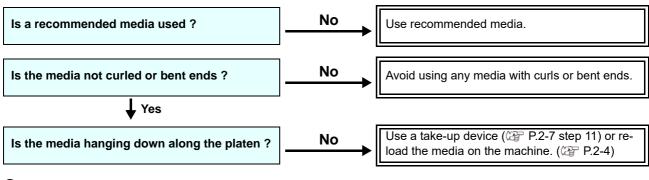
The machine does not start printing

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.



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.



If the media gets clogged, perform the work below:

Open the front cover and raise the clamp lever.



Close the front cover.

Image quality is poor

This section describes the corrective actions to be taken in case the image quality is not satisfactory. Take remedy for particular problems with image quality. If the remedy does not work, contact your dealer or an office of MIMAKI.

Phenomenon	Measures	
White lines / blur / dark stripes (in the direc- tion of travel of the heads)	 (1) Execute the head cleaning. (IP P.2-19) (2) Perform maintenance of the inside of the station. (IP P.4-7) (3) Execute the [MEDIA COMP.] function. (IP P.4-11) (4) If any pieces of paper or dust is attached on the path of the heads such as media press, remove it. 	
Characters are double- or triple-printed in the media feed direction	(1) Execute the [MEDIA COMP.] function. (2 P.2-20)	
Disagreement in print positions between outward trip and homeward trip	(1) Execute the [DROP POSITION] function. (CP P.2-21)	
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.2-19) (5) Set a shorter interval of Interval Wiping operation. (P.3-10) 	

Nozzle is clogged

When nozzle missing is not dissolved even after the head cleaning referring to P.2-19, make sure the following operations.

- Maintenance the sub tank by the operations of P.5-4
- Carry out air ventilation by the operations of P.5-4
- Wash the head nozzle by the operations of P.4-12.
- Recovery the nozzle by the operations of P.4-13.

Ink tank warning appears

If an ink tank trouble is detected, a warning message appears.

None of printing, cleaning and all the other operations that use ink is available. If an abnormality occurs, perform the following procedures:

• Check the ink amount in the ink tank and if the ink amount is not enough, add ink.



 Once ink tank trouble is displayed, do not leave the ink bottle without replacing it for a long time; otherwise, the machine will lose the nozzle missing prevention function.
 If nozzles are clogged, the machine must be repaired by MIMAKI's service engineer.

When the ink leakage occurs

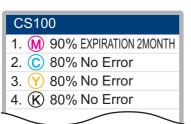
In case of ink leakage, please turn off the main power, unplug the power cable and call for service to our service or dealer.

Displaying the description of ink bottle trouble

The contents of ink bottle error are confirmable by the following operations.



Press the ENTER key in Local.



If an error related to the Sub Tank occurs (Error 618 to 61b)

Errors 618 to 61b are errors related to sub-tanks. Execute when a sub-tank-related error occurs, or if nozzle clogging does not resolve in cleaning.



Press the (FUNC1) (MENU) in local mode.



"MAINTENANCE", then press the ENTER key

• Maintenance MENU appears.

Press To select



Press v to select "Sub-tank" and press the ENTER key



- Press the ENTER key.
- Perform the ink discharge and filling operation in the sub-tank.
- When the filling into the sub-tank is completed, the air purge execution selection screen will be shown on the display.



Press v to select the action and press the ENTER key.

Select "Execute" to switch to the air purge menu.Select "Finish" to perform head cleaning.

If nozzle missing due to color mixture of ink or aeration

If nozzle missing occurs due to color mixture of ink in the head or aeration, push ink or air in the head out from the port.



 Ink may drop from the nozzle during air ventilation. An operator should not leave this machine during air ventilation.



Press the FUNC1 (MENU) in Local.



Press () to select "Maintenance", and press the ENTER key.

Maintenance MENU appears.



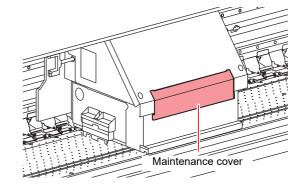
Press v to select "Air PG", and press the ENTER key.

- The station moves downward to the empty absorption position.
- When it lowers to the empty absorption position, "Open Cover" is displayed on the screen.



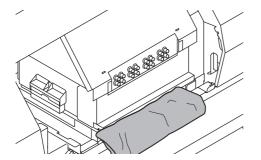
Open the right lower maintenance cover.

Open the maintenance cover before the carriage.





Cover the rail part before the station with a waste cloth etc.





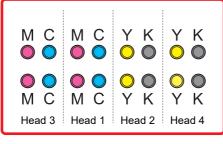
 Be sure to cover the rail part before performing the work. If ink drops on the rail part, ink will be hardened and it may cause the operation defect.

Press the ENTER key.



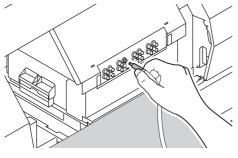
Press the <u>ENTER</u> key on the start confirmation screen.

Micropositive pressure starts.





Remove the cap of the ink port and set the air purge jig.





• When the valve is hard to open, use the attached longnose pliers and open.

• Do not remove the caps of the ink ports corresponding to unselected channels; otherwise, air may be gotten inside the head, which can lead to nozzle missing.



Discharge ink or purge air from inkport.

- (1) Press [FUNC2](✓).
 - Discharging of ink and air (positive pressure status) starts.
 - In the positive pressure status, [PURGE] appears on the display.
- (2) When the discharging is completed, press [FUNC2](✓) to reduce the momentum of discharging (micropositive pressure status).
 - Every time [FUNC2]() is pressed, the status switches between micropositive pressure and positive pressure.
 - In the micropositive pressure status, [-----] is displayed on the display.
 - After 30 seconds remaining in positive pressure state, it automatically states micropositive pressure.

Make sure the display of "Please wait" is off from the display.



Remove the jig from the ink port, and cap the ink port.

- It is recommended to remove the jig in the micropositive pressure status to prevent ink from spouting.
- The machine supplies ink into the sub tank containing less ink. Wait for a while until the display changes.
- To continue work, follow the steps 10 and 11.

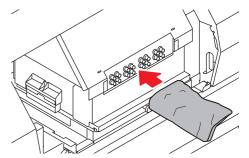
Press () v to select "RETRY" or "END".

- To finish work, select "END", press the A key, and proceed to step 16.
- To continue work, select "RETRY", press the [ENTER] key, and follow the steps 8 through 14.



Wipe ink adhering to the ink port with a waste cloth and remove the waste cloth covering the rail.

Wipe ink adhering to the ink port. Otherwise, it may cause the operation defect.





Close the maintenance cover before the carriage and the right lower maintenance cover of this machine. Then, press the (ENTER) key.

• Cleaning starts automatically. Wait for a while until cleaning has been completed.

16 Press <u>END/POWER</u> the key several times to end the setting.

⁽Important!)

When media heaves up at feeding

We call the status of heaving media at feeding "cockling". When media cockling occurs, check the following items:

Note/ checking items	Measures		
Checking media set status	(1) Check that the media is set straight and reset it.		
Adjusting heater temperature	(1) Upper pre-heaters' temperatures.		
Media feeding	 (1) For roll media, feed the media by about tens of centimeters to one meter. (2) For leaf media, press [▲][▼] and perform feed/ back feed. 		
Do not leave the media in the heater warming status (1) Do not start printing with the media cockled because media jam.			
Heighten the head	(1) For the thick media, make the head gap higher before printing.		

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
ERROR 901 INVALID OPERATION	Operation error	 Return to the LOCAL screen, check the error status, and take appropriate actions.
ERROR 902 DATA REMAIN	There remains received data that has not yet been printed.	Execute the data clear function. (P.2-22)
ERROR 90f PRINT AREA SHORT	The media is not wide or long enough for print- ing.	 If the media width is decreased because the origin is moved, shift the origin to the right to increase the effective media width. Replace the media with one having enough width or length.

Errors when ink charging is performed

Message		Cause	Solution
INK IC Expiration CHARGE ANYWAY? NO <	> YES	The expiration date for the inserted IC chip has passed.	Replace the IC chip with the IC chip of a new ink bottle.
IC Expiration:1MONTH CHARGE ANYWAY? NO <	> YES	The expiration date of the inserted IC chip has passed (one month has passed after the speci- fied expiration date).	Select [YES] to continue to use the ink.
IC Expiration:2MONTH CANNOT CHARGE		The expiration date of the inserted IC chip has passed (two months have passed after the specified expiration date).).	 Please insert the IC ship of the ink bottle within the expiration date. If an error occurs before the expiration date, please check the time of the machine.
WRONG INK IC CANNOT CHARGE		The IC chip cannot be read normally.	 REMOVE the IC chip, and insert again. When displaying again, contact y our sales office, or service center.
INK IC ALREADY USED CANNOT CHARGE		An IC chip that has already been charged was inserted.	Install the new IC chip.
INK TYPE CANNOT CHARGE		The type of ink on the inserted IC chip is differ- ent from the ink in the bottle.	 check WHETHER the IC chip is supplied with the ink bottle. Make sure the ink type of ink bottle.
INK COLOR CANNOT CHARGE		The color of ink on the inserted IC chip is differ- ent from the ink in the bottle.	 check WHETHER the IC chip is supplied with the ink bottle. Make sure the ink color of ink bottle.
Expiration CHARGE ANYWAY? NO <	> YES	The ink has expired.	• Replace with new ink or use up as soon as
Expiration:1MONTH CHARGE ANYWAY? NO <	> YES	One month has passed since the ink expired.	possible. It is possible to print.
Expiration:2MONTH CANNOT CHARGE		Two months have passed since the ink expired.	Replace with new ink. Cannot print.

Message displayed in LOCAL

Message	9	Cause	Solution
INK ERROR		An ink error occurred.	Check the ink bottle for the supply path corre- sponding to the indicated color.
InkOverflow	: MCYK	It was detected that the overflow of subtank.	
TANKlevelH	: MCYK	The sub tank sensor High does not change though a certain amount of ink has been consumed.	 Perform "SUBTANK" of the Maintenance menu. (2 P.5-4) When displaying again, contact your local dis-
TANKlevelL	: MCYK	The sub tank sensor Low does not change though a certain amount of ink has been con- sumed.	tributor, our sales office, or service center.
SUPPLY INK	: MCYK	Ink could not be supplied to the sub tank.	 Perform "SUBTANK" of the Maintenance menu. (P.5-4) Also check the remaining amount of ink in the ink bottle. (P.1-10) When displaying again, contact your local distributor, our sales office, or service center.
SubtankSens	: MCYK	Detected an abnormality of the liquid level sen- sor of the sub tank.	 Turn off the power on the machine and turn it on after a while (CPP P.2-3). When displaying again, contact your local dis- tributor, our sales office, or service center.
REPLACE INKTANK	: MCYK	Time to replace the ink tank of the displayed color (A certain period has passed since the start of use of the ink tank.)	 Perform "Replace Ink Tank" (@P.4-21) of the Maintenance menu. The ink charge information is also reset. After replacing the ink tank, charge the new IC chip and refill ink. (@P.1-10)
INKTNK SENS	: MCYK	Detected an abnormality of the ink tank sensor.	 Make sure the ink supply unit is connected to the machine. Check if any weight or load is taken on the ink tank. If the error is still displayed after this, contacty our sales office, or service center.
Take-UP CoverOPEN		It was detected that the media take-up device's cover was open.	Close the take-up device's cover.
Take-UP WRONG		An abnormality occurred in the take-up status of the media take-up machine.	 Check if the media setting is set to ROLL when the take-up device is not used. Check if the taking-up direction switch and the taking-up manual switch are set correctly. (CPP P.2-6,P.2-7) Check that the media is set on the media take-up machine correctly. Check if the media take-up paper core is running without load. Turn ON and OFF the manual switch, and raise the tension bar to a correct position. Feed the media in the jog operation in the direction reverse to that used at the time when the error occurred.
Take-UP LimitDETECT		The control limit sensor of the media take-up machine was detected.	 Check if the media can be fed correctly in the jog operation. Lower the position of the tension bar at the take-up side. When displaying again, contact your local distributor, our sales office, or service center.
TAKE-UP ENC WRONG	G	An abnormality occurred in the take-up encoder.	• Turn off the power on the machine and turn it
Take-UP Connect		The take-up unit is not correctly connected.	 on after a while (P.2-3). When displaying again, contact your local dis-
Take-UP Fuse Err		The take-up fuse is blown.	tributor, our sales office, or service center.

Message	Cause	Solution
TAKE-UP TENSION-BAR	The media set check at the start of printing detected an abnormality of the take-up tension bar.	 Check the media set condition and remove any cause of the problem. Check that the taking-up direction switch is set correctly. (C P.2-6)
Take-UP Voltage	An abnormality occurred in the take-up unit volt- age.	 Turn off the power on the machine and turn it on after a while (P.2-3). When displaying again, contact your local dis- tributor, our sales office, or service center.
Feeding CoverOPEN	It was detected that the media feeding device's cover was open.	• Check the cover of the feeding unit. Even if you close the cover, if the same message is displayed, contact a distributor in your district, our office or our call center.
Feeding WRONG	An abnormality occurred in the feeding status of the media feeding machine.	 Check if the media setting is set to ROLL when the feeding device is not used. Check if the taking-up direction switch and the feeding manual switch are set correctly. Check that the media is set on the media feeding machine correctly. Check if the media feeding paper core is running without load. Turn ON and OFF the manual switch, and raise the tension bar to a correct position. Feed the media in the jog operation in the direction reverse to that used at the time when the error occurred.
Feeding LimitDETECT	The control limit sensor of the media feeding machine was detected.	 Check if the media can be fed correctly in the jog operation. Lower the position of the tension bar at the feeding side. When displaying again, contact your local distributor, our sales office, or service center.
FEEDING ENC WRONG	An abnormality occurred in the feeding encoder.	• Turn off the power on the machine and turn it
Feeding Connect	The feeding unit is not correctly connected.	on after a while (ᢙ P.2-3). When displaying again, contact your local dis-
Feeding Fuse Err	The feeding fuse is blown.	tributor, our sales office, or service center.
FEEDING TENSION-BAR	The media set check at the start of printing detected an abnormality of the feeding tension bar.	 Check the media set condition and remove any cause of the problem. Check that the feeding direction switch is set correctly. (C P.2-6)
Feeding Voltage	An abnormality occurred in the feeding unit volt- age.	 Turn off the power on the machine and turn it on after a while (CPP P.2-3). When displaying again, contact your local dis- tributor, our sales office, or service center.
REPLACE WIPER	Time to replace the wiper on the capping station (The number of times of wiping has reached a specified value.)	Perform [Replace Wiper] in [Station], and replace the wiper. ((P.4-19)
DATA REMAIN	Data was received.	• Execute the data clear. (CPP P.2-22) Restart if the error message remains after the execution of the data clear.
MACHINE TEMP./H ***°C	The machine is hot.	 Use cooling equipment to lower the room temperature to a specified range. Wait until the machine cools down. When displaying again, contact your local distributor, our sales office, or service center.
MACHINE TEMP./L ***°C	The machine is cold.	 Use a heating system to raise the room temperature to a specified range. Wait until the machine warms up. When displaying again, contact your local distributor, our sales office, or service center.

Chapter 5 Troubleshooting

Message	Cause	Solution	
Please check the hight of Jam Sensor	The height of the jam sensor is not correct.	 Match the height of the jam sensor to the appropriate height. 	
MEDIA JAM	Detected media jam.	• Eliminate the media jam and press the [ENTER] key. If the problem can not be eliminated, contact y our sales office, or service center.	
Cover Open	Detected cover open.	 Check the cover (front cover, right side main- tenance cover, left side maintenance cover and back cover), close it if it is open, and press the [ENTER] key. 	

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 04 PARAM ROM		The PCB is defective.		
ERROR 108 HD CONNECT	[1234]	Abnormal connection of the print head		
ERROR 108 HD THERMIS	[1234]	Abnormal temperature of the print head	• Turn off the power on the machine and turn it	
ERROR 108 HD MEM EMP	[1234]	The print head has been broken.	on after a while. • When displaying again, contact your local dis- tributor, our sales office, or service center.	
ERROR 108 HD TYPE	[1234]	···· F		
ERROR 128 HDC FIFO OVER		Control circuit board is defective.		
ERROR 128 HDC FIFO UNDER				
ERROR 128 BATTERY EXCHANGE		The battery life end of the internal clock is detected.	Contact your local distributor to call for ser- vice.	
ERROR 12a HDC SPEED [12]		Ink discharge control error		
ERROR 12b HEAD ROM WR		Head control error		
ERROR 12e HeadFaild /HDC[**]		The print head has been broken.		
ERROR 130 HD DATA SEQ		- Control circuit board is defective.		
ERROR 148 E-LOG SEQ				
ERROR 151 Main PCB V1R2		-		
ERROR 152 Main PCB V2R5				
ERROR 153 Main PCB V3R3			Turn off the power on the machine and turn it	
ERROR 154 Main PCB V05		An error occurred in the main power.	on after a while. • When displaying again, contact your local dis-	
ERROR 155 Main PCB V36-1			tributor, our sales office, or service center.	
ERROR 157 Main PCB VTT				
ERROR 158 Main PCB V36-2				
ERROR 15f HEAD DRIVE HOT		The temperature abnormality of control circuit board has been detected.		
ERROR 16e Main PCB V3R3B		An error occurred in the main power.		
ERROR 171 NEW HEAD CONNECT		Connection of a new head was recognized.		
ERROR 186 HDC OVERFLOW [12]				
ERROR 186 HDC UNDERFLOW [12]		Ink discharge control error		

Message	Cause	Solution
ERROR 187 HDC SLEW RATE [12]	Ink discharge control error	
ERROR 188 HDC MEMORY [12]		
ERROR 18a Main PCB V_CORE	-	
ERROR 18b Main PCB V1R5B	An error occurred in the main power.	• Turn off the power on the machine and turn it
ERROR 18c Main PCB V12		on after a while. • When displaying again, contact your local dis- tributor, our sales office, or service center.
ERROR 18e FLS NOT COMP [12]	-	
ERROR 18f OFFSET START [12]	Ink discharge control error	
ERROR 18f OFFSET END [12]		
ERROR 19d HDC V36 [12]	Abnormal ink discharge voltage was detected.	
ERROR 201 COMMAND		
ERROR 202 PARAMETER	Abnormal communication between PC and	• Check the USB cable connection. Use a USB cable conforming to the standard.
ERROR 203 Ment Command	printer	
ERROR 206 PRINTING MODE		Check the USB cable connection. Use a USB cable conforming to the standard.Check output conditions.
ERROR 304 USB INIT ERR		
ERROR 305 USB TIME OUT	USB device error.	
ERROR 306 USB GET DESC		• Turn off the power on the machine and turn it
ERROR 401 MOTOR X	An excessive load was applied to the X motor.	on after a while. • When displaying again, contact your local dis-
ERROR 402 MOTOR Y	An excessive load was applied to the Y motor.	tributor, our sales office, or service center.
ERROR 403 X CURRENT	An error due to an excessive current of the X motor was detected.	
ERROR 404 Y CURRENT	An error due to an excessive current of the Y motor was detected.	
ERROR 41b ** NO MEDIA **	With no media loaded properly, the clamp moved down.	• Load media so that the media comes within the range of the media sensor.
ERROR 423 TAKE-UP TENSION-BAR	The media set check detected abnormality of the take-up tension bar at the start of printing.	Check the media set condition, and remove
ERROR 424 FEEDING TENSION-BAR	The media set check detected abnormality of the feeding tension bar at the start of printing.	any problem.

Message	Cause	Solution
ERROR 425 Take-UP WRONG	An error occurred in the take-up status of the take-up unit.	 Check if the media setting is set to ROLL when the take-up device is not used. Check if the taking-up direction switch and the taking-up manual switch are set correctly. Check that the media can be taken up to the take-up unit. Check if the media take-up paper core is running without load. Turn ON and OFF the manual switch, and raise the tension bar to a correct position. Feed the media in the jog operation in the direction reverse to that used at the time when the error occurred.
ERROR 426 Feeding WRONG	An error occurred in the take-up status of the feeding unit.	 Check if the media setting is set to ROLL when the feeding device is not used. Check if the taking-up direction switch and the feeding manual switch are set correctly. Check that the media can be taken up to the feeding unit. Check if the media feeding paper core is running without load. Turn ON and OFF the manual switch, and raise the tension bar to a correct position. Feed the media in the jog operation in the direction reverse to that used at the time when the error occurred.
ERROR 427 Take-UP CoverOPEN	It was detected that the media take-up device's cover was open.	Close the take-up device's cover.
ERROR 428 Feeding CoverOPEN	It was detected that the media feeding device's cover was open.	Close the feeding device's cover.
ERROR 429 Take-UP LimitDETECT	The take-up limit was detected.	 Check if the media can be fed correctly in the jog operation. Lower the position of the tension bar on the take-up side by using the manual switch.
ERROR 42a Feeding LimitDETECT	The feeding limit was detected.	 Check if the media can be fed correctly in the jog operation. Lower the position of the tension bar on the feeding side by using the manual switch.
ERROR 432 Take-UP Connect	Take-up device connection destination error	
ERROR 433 Feeding Connect	Feeding device connection destination error	
ERROR 436 Take-UP Fuse Err	Take-up fuse blown	
ERROR 437 Feeding Fuse Err	Feeding fuse blown	• Turn off the power on the machine and turn it on after a while.
ERROR 442 Take-UP Voltage	An abnormality occurred in the take-up unit volt- age.	• When displaying again, contact your local dis- tributor, our sales office, or service center.
ERROR 443 Feeding Voltage	An abnormality occurred in the feeding unit volt- age.	
ERROR 44d STATION POS ERROR	Abnormal station position	
ERROR 46b TAKE-UP ENC WRONG	An error occurred in the take-up device.	
ERROR 46c FEEDING ENC WRONG	An error occurred in the feeding device.	• Turn off the power on the machine and turn it on after a while.
ERROR 50a Y ORIGIN	Y-origin could not be detected.	• When displaying again, contact your local dis- tributor, our sales office, or service center.

Message	Cause	Solution	
ERROR 50c MEDIA WIDTH SENSOR	The media width has not been detected cor- rectly.	 Check the media set position. Clean the media sensor. (C P.4-4) 	
ERROR 50f L-SCALE BLACK	Abnormal linear scale.	 Turn off the power on the machine and turn it on after a while. When displaying again, contact your local dis- tributor, our sales office, or service center. 	
ERROR 516 MEDIA SET POSITION R ERROR 516 MEDIA SET POSITION L	 The media is set outside the proper area. 	• Check the media set position.	
ERROR 531 INKTNK SENS : MCYK	Detected an abnormality of the ink tank sensor.	 Make sure the ink supply unit is connected to the machine. Check if any weight or load is taken on the ink tank. When displaying again, contact your local distributor, our sales office, or service center. 	
ERROR538 CHECK MEDIA SET POS.	The media is not set in the correct position.	Check the media set position.	
ERROR 607 CAP CLEANING	Time to clean the cap	• Clean the cap. (🍞 P.4-7)	
ERROR 617 SubtankSens : 1234	Detected an abnormality of the liquid level sensor of the sub tank.	 Turn off the power on the machine and turn it on after a while. When displaying again, contact your local dis- tributor, our sales office, or service center. 	
ERROR 618 TANKlevelH : 1234	The sub tank sensor High does not change though a certain amount of ink has been consumed.	Perform "SUBTANK" of the Maintenance	
ERROR 619 TANKlevelH : 1234	The sub tank sensor Low does not change though a certain amount of ink has been consumed.	menu. (²²⁷ P.5-4) Even if you perform, it may be displayed, con- tact your local distributor, our sales office, or service center.	
ERROR 61a InkOverflow : 1234	It was detected that the overflow of subtank.		
ERROR 61b SUPPLY INK : 1234	Ink could not be supplied to the subtank.	 Perform "SUBTANK" of the Maintenance menu. (IP P.5-4) Also make sure the ink remaining in the ink bottle. (IP P.1-10) Even if you perform, it may be displayed, con- tact your local distributor, our sales office, or service center. 	
ERROR 702 THERMISTOR	The thermistor sensor of a heater is defective.		
ERROR 703 ! PRE HEATER BRK		• Turn off the power on the machine and turn it on after a while.	
ERROR 703 ! PRINT HEATER BRK	A pre-heater is disconnected.	When displaying again, contact your local dis- tributor, our sales office, or service center.	
ERROR 703 ! POST HEATER BRK			

SYSTEM HALT

Message	Solution
SYSTEM HALT (*) 000 :MESSAGE	Turn off the power on the machine and turn it on after a while. If the same error message appears, contact our service desk or your local distributor to call for ser- vice. ("000" is the error No.)

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
Supply item list	6-3
Setting orders of ink tanks	
Sheet for inquiry	

Specifications

Machine specifications

	ltem		Specifications	
Duint has a	Method		Drop-on-demand piezoelectric print heads	
Print head	Specification		4 heads: 2-layered staggered arrangement in 2-line	
Drawing mode	Single-layer	tarpaulins	300x600:Bi/Uni 2/ 4/ 6 pass (only normal mode) 450x600:Bi/Uni 2/ 4/ 6 pass (only normal mode) 300x900:Bi/Uni 3/ 6/ 8/ 12 pass (only normal mode)	
(scan x feed)	Single-layer	PVC film/	600x600:Bi/Uni 4/ 8/ 12/ 16/ pass 600x900:Bi/Uni 6/ 12/ 16/ 24 pass 900x1200:Bi/Uni 8/ 16/ 24/ 32 pass	
Usable inks	•		CS100 ink (M,C,Y,K) / CS200 ink (M,C,Y,K)	
Ink supply			Supplying 3L x 4 bottles	
Capacity of i	nk tank		3L-bottle x 1 for each color	
Media type			PVC film/ tarpaulins	
Max. printing	g width		3200mm (126.0 in)	
	Maximum		3250mm (1524 mm each when twin rolls are set. 1620 mm when roll holders are used.) (128.0in (60.0in each when twin rolls are set. 63.8in when roll holders are used.))	
	Minimum		210mm (8.3in)	
	Thickness		1mm (0.04in) or less	
Roll Media	Roll outside diam	ieter	When using take-up unit and feeding unit: Φ 250mm (Φ 9.8in) or less When using the roll holder: Φ 180mm (Φ 7in) or less	
size	Roll weight ^{*1}		When using feeding unit:100kg (220.5lb) or less When using roll holder:25kg (39.7lb) or less	
	Roll inside diameter		When using take-up unit and feeding unit:3 inches When using roll holder:2 or 3 inches	
	Printing surface		Regardless of inside and outside	
	Roll end treatment		The roll end is gently fixed to the core with weak-adhesive tape or weak glue for easy removal.	
Leaf media	Maximum		3250mm (128.0in)	
size	Minimum		210mm (8.3in)	
Margin	Leaf media		Left end and right end : 15 mm (Default) Front : 1400 mm Rear : 1300 mm (Left end and right end : 0.6in (Default) Front : 55.1in Rear : 51.2in)	
Margin	Roll media		Left end and right end : 15 mm (Default) Front : 1600 mm Rear : 1300 mm (Left end and right end : 0.6in (Default) Front : 63.0in Rear : 51.2in)	
Distance accuracy	Reproducibility		Whichever the larger one of ± 1.5 mm (0.06in) or ± 0.3 % of the designated $^{\ast 2}$ $^{\ast 3}$ $^{\ast 4}$	
Perpendicula	arity		± 0.5 mm (0.02in) / 1000 mm (39.4in) ^{*1 *2}	
Media skew			5 mm (0.2in) or less / 10 m (393.7in) variable ^{*1 *2}	
Head height adjustment			1.7, 1.9, 2.6, 3.3 mm (0.070,0.074, 0.10, 0.13in)	
Media delivery			Take-up device supplied as a standard accessory (switching possible between face in and face out ^{*5}).	
Waste ink tank			Tank type (10 liter)	
Interface			USB 2.0, Ethernet	
Command			MRL V	
	during standby		Less than 58 dB (FAST-A, Front & Rear & Left & Right 1 m)	
Noise ^{*6}	during continuous printing		Less than 65 dB	
	during discontinuous printing		Less than 70 dB	
Power			AC200 - 240 ± 10% , 50/60Hz ± 1Hz , 29A or less	

	tem	Specifications
Power consumption		6.9KW or less
	Available temp.	20 °C to 30 °C (68°F to 86°F)
Recomend	Humidity	35 to 65% Rh (No condensation)
ed Envi-	Guaranteed temp.	20 °C to 25 °C (68°F to 77°F)
ronment	Temperature change	± 10 °C / h or less
	Dust	0.15mg/m ³ (Equivalent to normal office level)
Weight	Printer main unit	910 kg (2006.0 lb)
Outside dimensions	Printer main unit	5410 mm(W) x 995 mm(D) x 1440mm(H) (213.0in(W) x 39.2in(D) x 56.7in(H))

*1. Without deflection of the roll when it is retained at both ends.

*2. The expansion and/or contraction of media is excluded.

The initial meandering of the media which is just set is excluded. *3.

Only if all the following conditions are met: The media is set in the center of the machine. *4.

The Logical Seek is set to Quality. When roll holders are used, printing is started on a roll having no deflection.

The take-up device is used.

One roll media is used (except for twin rolls). *5. "Involuted" for the media take-up direction is recommended.

*6. 65.1dB(A), Operating Condition: Full load Measuring Method: According to clause 1.7.4.2 of Machinery Directive 2006/42/EC

Ink specifications

Item		Specifications
Supply		2L Ink bottle
Color		Black ink Cyan ink Magenta ink Yellow ink
Ink capacity		2 liter
Shelf life		The period is printed on the ink bottle. Within three months after opening the package even in the available period.
Storage tempera- ture	Storage	5 to 30°C (41 to 86°F)
	Transportation	1 to 60°C (Storage at temperature of 60°C (140°F) is only permitted within 120 hours, and at temperature of 40°C (104°F) is permitted within a month.)

(Important!)

• Do not disassemble the ink bottle.

• Ink could freeze if kept in a cold place for an extended period.

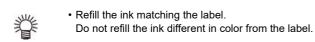
• If the ink freezes, thaw it at room temperature (25°C) spending more than three hours before use. However, when you use the frozen ink, the printing quality becomes degraded due to altered ink. Store ink in the environment where ink may not freeze.

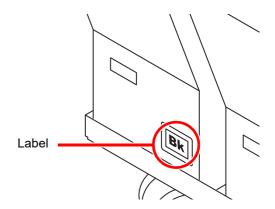
Supply item list

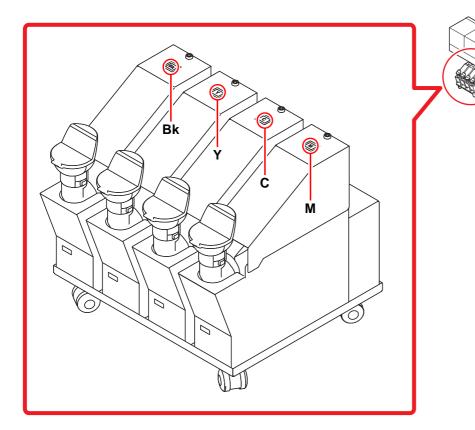
Name of part	Part codes
Name of part	
CS100-C-BB	Solvent ink CS100 Cyan ink (2L bottle)
CS100-M-BB	Solvent ink CS100 Magenta ink (2L bottle)
CS100-Y-BB	Solvent ink CS100 Yellow ink (2L bottle)
CS100-K-BB	Solvent ink CS100 Black ink (2L bottle)
CS200-C-BB	Solvent ink CS200 Cyan ink (2L bottle)
CS200-M-BB	Solvent ink CS200 Magenta ink (2L bottle)
CS200-Y-BB	Solvent ink CS200 Yellow ink (2L bottle)
CS200-K-BB	Solvent ink CS100 Black ink (2L bottle)
CS100-C-BJ	Solvent ink CS100 Cyan ink (10L bottle)
CS100-M-BJ	Solvent ink CS100 Magenta ink (10L bottle)
CS100-Y-BJ	Solvent ink CS100 Yellow ink (10L bottle)
CS100-K-BJ	Solvent ink CS100 Black ink (10L bottle)
SPC-0766	H Fan Filter
SPC-0527	Clean stick (for head periphery, 50pcs)
SPA-0193	Wiper rubber exchange kit
SPA-0263	Cap ink absorber kit
SPC-0369	Cleaning solution kit200
SPC-0769	Air removal jig Replacement tube

Setting orders of ink tanks

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









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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 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 "About Information MENU" then fill in necessary information. (27 P.3-21)

SWJ-320EA Operation Manual

December, 2020

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