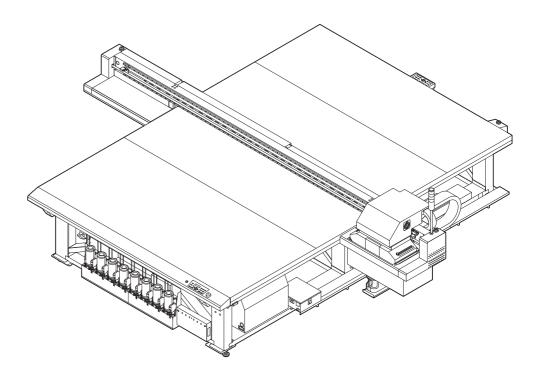


UV INKJET PRINTER

JFX200-2531

OPERATION MANUAL



MIMAKI ENGINEERING CO., LTD.

https://mimaki.com/

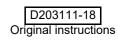


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CAUTION

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 case the user will be required to correct the interference at his own expense.

In the case where MIMAKI-recommended cable is not used for connection of this device, limits provided by FCC rules can be exceeded.

To prevent this, use of MIMAKI-recommended cable is essential for the connection of this printer.

Interference to televisions and radios

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

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

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

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

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

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

Restriction in use

Restriction in use

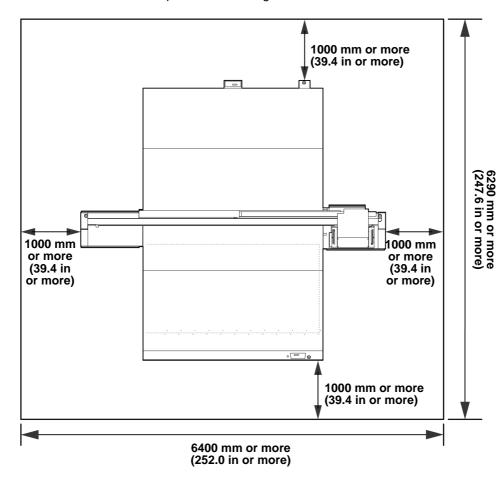
This machine is very dangerous as it has high-speed movable part, hot part and UV irradiating part. Use of this machine is limited to the user who understands this dangerousness completely.

Restriction for user

The user of this machine shall get proper training. Limit to the user those who got proper training to operate this machine.

Restriction area

- Coming closer to the machine is prohibited for the person other than the user who got proper training. Set up the restriction area within the range indicated below. You have to install this machine in the dedicated room, or, set up a fence and make the person recognize that it is a dangerous area.
- If restricting the area with safety fences, set up the safety fences in accordance with the EN ISO13857 standards.
- If installing this machine in a dedicated room, install a lock or interlock on the room's door, and perform risk assessment for the final installation place before using the machine.



Foreword

Congratulations on your purchase of MIMAKI color ink jet printer "JFX200 Series" . "JFX200 Series" is a UV inkjet printer that can print with UV ink realizing high speed and high image quality.

About usable ink

Usable ink for this machine is LUS-150, LUS-200, LH100, LUS-120,LUS-350 (4-color/ 4-color+white ink / 4-color+white + clear ink model).

4-colors version	: 2 each of Cyan, Magenta, Yellow and Black color ink bottle are use.
4-colors + White version	: One bottle each of yellow and black, and two bottles of cyan, magenta, white are used.
4-colors + White + Clear version (LUS150, LH100, LUS120)	: One bottle each of cyan, magenta, yellow and black, and two bottles of white, clear are used.
4-colors + White + Clear + Primer version (LUS150, LH100)	: One bottle each of Cyan, Magenta, Yellow, Black, Clear and Primer, and two bottles of white are used.
6-colors + White version (only LUS150)	: One bottle each of Cyan, Magenta, Yellow, Black, Light cyan and Light magenta, and two bottles of white are used.



Depending on the ink type, the available clear ink type differs.

Ink type	Ink type of clear ink
LUS150	LH100
LH100	LH100
LUS120	LUS120

• Please note that other than above combination can not be used.

On This Operation manual

- This Operation manual is describing the operations and maintenance of "UV inkjet printer JFX200 Series" (called as this machine hereafter)
- JFX200-2531 are identical with models IPPR671.
- Read this Operation manual carefully and understand them thoroughly to use.
- 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.		
Î	Useful information is given with this symbol. Refer to the information to operate the machine properly.		
(A)	Indicates the reference page for related contents.		
Â	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.		
\bigcirc	The symbol " \bigotimes " indicates that it is the forbidden action. If there is a concrete instruction, it is indicated in or around the symbol " \bigotimes ".		
0	The symbol "●" indicates that the action is forced to be done or the instruction must be observed. If there is a concrete instruction, it is indicated in the symbol "●".		

Warning for Use

<u> </u>	ARNING		
• Be sure to setup the appropriate air-moving system bad ventilation.	n in case of using the device in a closed room or a room with		
• The ink used for this device falls into the category never use fire when using the device.	The ink used for this device falls into the category of UN No.3082 and UN Class 9. Since the ink is flammable never use fire when using the device.		
• When cleaning the ink station and head, be sure to get ink or maintenance liquid in your eyes.	o wear the included safety glasses and gloves since you may		
 If anyone drinks ink or maintenance liquid in mistake, get the person to vomit and see a doctor immediately.Do not allow him or her drink vomit.Then, refer SDS about the inquiry. If you absorb a lot of vapor and feel bad, immediately move to a location where fresh air is present and ther keep yourself warm and quiet.Then, consult a doctor as soon as possible. Discard the waste ink according to the local regulations of the area this unit is used. Prevent any leaks into sewage or natural water systems. If the ink leakage occurs, unplug the power plug to turn off the main power switch, and contact our service office or distributor. 			
Do not disassemble or remodel the device	Handling of ink bottles		
• Never disassemble or remodel the main unit of the printer and the ink cartridge.Disassembling/ remodeling any of them will result in electric shocks or breakdown of the device.	• Some of the ingredients (UV Curing initiator) have toxic consequences to aquatic life.Avoid leak into water system or sewage containing water.		
Do not use the device in damp places	 Store ink bottles and waste ink tank in a place 		
• Avoid damp environments when putting the device into service. Do not splash water onto the device.Highhumidity or water will give rise to fire, electric shocks or breakdown of the device.	 that is out of the reach of children. If ink settles on the skin or clothes, immediately wash it off with detergent or water. If you get ink in your eyes, immediately wash your eyes with a lot of clean water for at least 15 minutes. In this 		
Abnormal event occurs	case, also wash the backside of eyelids to rinse		
• If the device is used under an abnormal condition where the device produces smoke or unpleasant smell, fire or electric shocks can	ink away completely. Then, consult a doctor as soon as possible. Grounding work		
result.Be sure to turn off the power switch	• Grounding work is necessary to prevent		
immediately and detach the two plugs from the receptacle simultaneously.Check first to be sure that the device no longer produces smoke, and	electrocution accidents when installing an outlet. • Carry out the grounding work.		
contact a distributor in your district for repair.	Handling of the power cable		
Never repair your device by yourself since it is vory dangerous for you to do so	• Use a power cable attached to this unit.		
very dangerous for you to do so. Wearing protective devices	• Take care not to damage, break or work on the power cable. If a heavy matter is placed on the		
• When cleaning parts such as the head, wiper, or	power cable, heated or drawn, the power cable		
cap, which may scatter ink and maintenance	can break to cause fire or electric shocks.		
liquid, be sure to wear safety glasses and gloves, or ink and maintenance liquid might	Do not ride on the table There is a possibility that the board accuracy 		
enter your eyes or ink and maintenance liquid might	falls. Please never ride on top of the table.		
put on your hands might make your hands rough.			
Handling of vacuum			
 Never disassemble or remodel the vacuum. Also, do not touch the relief valve (pressure regula cover the vacuum outlet. Doing so will decrease the suction power overheating or malfunction. (Vacuum is placed of the table.) High-pitched sounds may occasionally be heat vacuum when the machine is used in a low 	and cause directly under and from the extemperature		
vacuum when the machine is used in a lov environment, but this is not a fault.	v-temperature Vacuum Relief valve		

^
<u>/!</u> WARNING
Power supply and voltage
 This unit contains parts applied high voltage.Carrying out electrical work by those unauthorized for that work is prohibited. Use it with the displayed power supply specifications. The power-supply voltage of this machine shall be single-phase 200 to 240 Vac 15A / AC 200 to 240 Vac 8A and less. (You cannot use this machine in the 100V system.)
 Be sure to always disconnect the two power plugs simultaneously when performing maintenance in order to prevent electrical shock. Depending on the device, one minute might be required for condenser discharging time. Be sure to always wait five minutes or more after disconnecting the power plug before performing any work. Be sure to carry out grounding work to prevent electrical shock.
• The main power circuit breaker should be set ON only by personnel with sufficient knowledge about operations of this unit.
Handling the Anti-freezing liquid
 Use the exclusive Anti-freezing liquid by Mimaki ,or the machine may be damaged. If the Anti-freezing liquid or Cooling tank water gets on the skin or clothes, immediately wash it off with soap. If you get the Anti-freezing liquid or Cooling tank water in your eyes, immediately wash your eyes with a lot of clean water. Then, consult a doctor as soon as possible. If high temperature Anti-freezing liquid or Cooling tank water gets on the skin, immediately wash it off with soap and cool with iced water. Then, consult a doctor as soon as possible. Before using the Anti-freezing liquid, be sure to read the Material Safety Data Sheet (SDS). If you swallowed the Anti-freezing liquid or mixed soft water with antifreezing liquid accidentally, try to get to vomit, and then consult a doctor as soon as possible. When unused the Anti-freezing liquid or used Cooling tank water should discard as followings, Incinerating the fluid which is absorbed to the sawdust or waste cloth. Entrust them to an industrial waste disposal contractor, clarifying their contents. Avoid ignition such as static electricity and impact spark. Be sure to wear the included safety glasses and gloves for handling the Anti-freezing liquid.
Handling of LED UV unit
 Do not use the LED UV in an ambience with a possibility of catching fire (gasoline, combustible gas spray, thinner, lacquer, powder dust, etc.). In addition, do not put paper or cloth near or on the LEDUV, or it may cause fire.or it may cause electrical shock. Never look at the LED UV being lit with your naked eyes, or it may cause pain in your eyes or visual impairment.Be sure to wear safety glasses. Do not apply ultraviolet (UV) light directly to your skin, or it may cause irritation on your skin. Do not touch the LED UV unit on or right after the lamp off with bare hands to avoid from burn injury. It is recommended to replace the LED UV unit within the rated life.
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.
Keep children away
Keep children away from this machine.

Keep children away from this machine.

Precautions in Use

	AUTION
Protection against dust	Periodic exchange parts
 It is strongly recommended to use the device in a room that is not dusty. When leaving the workshop after the working 	• There are some parts which must be replaced by service men. You have to make a contract with distributors or dealers for after-sale service.
hours, be sure to take off any media from the roll • hanger.If any media is left on the roll hanger,	Keep the machine flatly
 dust can put on it. Store media in a bag.Wiping off dust accumulated on a media will adversely affect the 	• Be sure to adjust the level foot to keep the machine flatly.
media due to static electricity. • Dust in the head will also cause drops of ink to	Handling of maintenance liquid
fall abruptly down on the media during printing.lf this phenomenon takes place, be sure to clean up the head. ((P.2-15)	• Be sure to store the maintenance liquid in a color and dark place.Store the maintenance liquid in a place that is out of the reach of children.
Warning labels	Note on maintenance
• This device is adhered with a warning label. Be sure understand firmly the warnings given on the labels.In the case where any of the warning label has become so soiled that the warning message is illegible or has come off, purchase a new one from your local distributor or our office.	 When cleaning parts such as the head, wiper, o cap, be sure to wear the included safety glasses and gloves.
Handling the Anti-freezing liquid	Power supply
 Be sure to store the Anti-freezing liquid in a cold and dark place. Store the Anti-freezing liquid in a place that is out of the reach of children. 	 Leave the breaker turned ON. Do not turn off the main power switch on the right side of this machine.
Handling of ink bottles	
 the use of ink other than the exclusive type. The machine does not operate with any ink other than Do not use the JFX200 genuine ink with other printer Do not refill ink other than the one specified by our caused by your using such an ink. If the ink bottle is moved from a cold place to a warm before using it. Open the ink bottle just before installing it in the manormal printing performance of the machine may not Make sure to store ink bottles in a cool and dark place Store ink bottles and waste ink tank in a place that is Be sure to thoroughly consume the ink in the ink bottle, Neither pound the ink bottle nor shake it violently, as Do not touch or stain the contacts of the IC chip, as determine the ink is equivalent to waste oil of industrial waste 	s, as doing so may cause damage to such machines. company in the bottle. We are not responsible for any defects place, leave it in the room temperature for three hours or more achine. If it is opened and left for an extended period of time be ensured. e. out of the reach of children. le, once it is opened, within three months. If an extended period printing quality would be poor. doing so can cause leakage of ink.
waste ink. Handling of media	
 Use media recommended by MIMAKI to ensure relial Pay attention to the expansion and contraction of the Do not use media immediately after unpacking. The and thus it may expand and contract. The media have minutes or more after unpacked. Do not use curled media. The use of curled media can not only cause a media 	

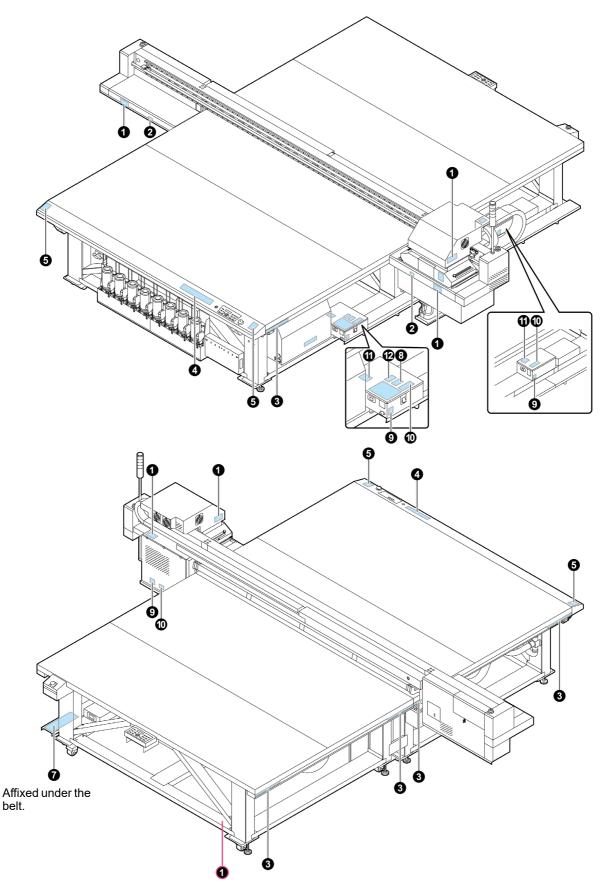
	CAUTION			
About	UV light	About hot parts		
	 A little UV light leaks from the LED UV unit. UV light applied to your skin might cause inflammation and/or skin cancer. Though weak UV light might cause no inflammation, repeated exposure to it may lead to chronic disorders. Avoid applying UV light to your skin and eyes. Possible damage to your eyes due to ultraviolet is acute disorder (feeling like something is in your eye, pain and flow of tears) and chronic disorder (cataract etc.). When using this device, take protective measures such as gloves, long-sleeve cloth, light-resistant mask, attached light-resistant glasses, etc. 	 The LED UV unit and the Post Cure Unit become very hot. When carrying out maintenance, wait until the temperature has been sufficiently lowered after the lamp is turned OFF. 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. 		
Notes	on LED UV unit	About cleaning		
	 When handling the LED UV or the silica glass on the bottom of the irradiation device, be sure to wear the gloves attached and never touch them with bare hands, or the UV ink curing level is significantly lowered. If the LED UV or silica glass is contaminated, wipe it with clean gauze moistened with alcohol.(Do not use alcohol for cleaning the exterior cover, or the paint will peel off.) Never use those UV devices other than those recommended by Mimaki. We would take no responsibility for any troubles caused through the use of a UV devices not recommended by Mimaki. 	 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			
	 Leaving combustible materials under the UV LE smoking. After the unit is used long time, foreign materials electrical leakage or insulation deterioration may or measure the insulation resistance, replacing deter After the unit is used long time, screws, etc. on the smoking.Periodically tighten such screws. Because this unit is not of explosion proof type, dipossibility of explosion may arise. 	th combustible materials may cause firing and/or smoking. D unit for a couple minutes may also cause firing and/or or dust gathered on the stabilizer or other parts may cause cause firing and/or smoking.Periodically clean the parts and iorated parts, if any. he conductive parts may be loosened, causing firing and/or lo not use it in an ambience with hazardous materials, or a a smoking or a spark burn are found, turn the power off and		
Handl	ing of the power cable			
	Connect to a socket-outlet with determinate polari	tv.		
0	 For Inlet, be sure to supply power from the outlet of For PLUGGABLE EQUIPMENT, the socket-outlet accessible. Unplug the cord from the wall outlet and remove Failure to do so may result in fire or electric shock Do not use the machine unless it is connected to a Check the voltage of the wall outlet and the capace power cords. Plug each power cord to different outlet outlet and the capace 	of the same voltage. t shall be installed near the equipment and shall be easily dust from the power plug periodically, at least once a year. s. a power supply that satisfies the displayed voltage condition. ity of the circuit breaker before you plug the		

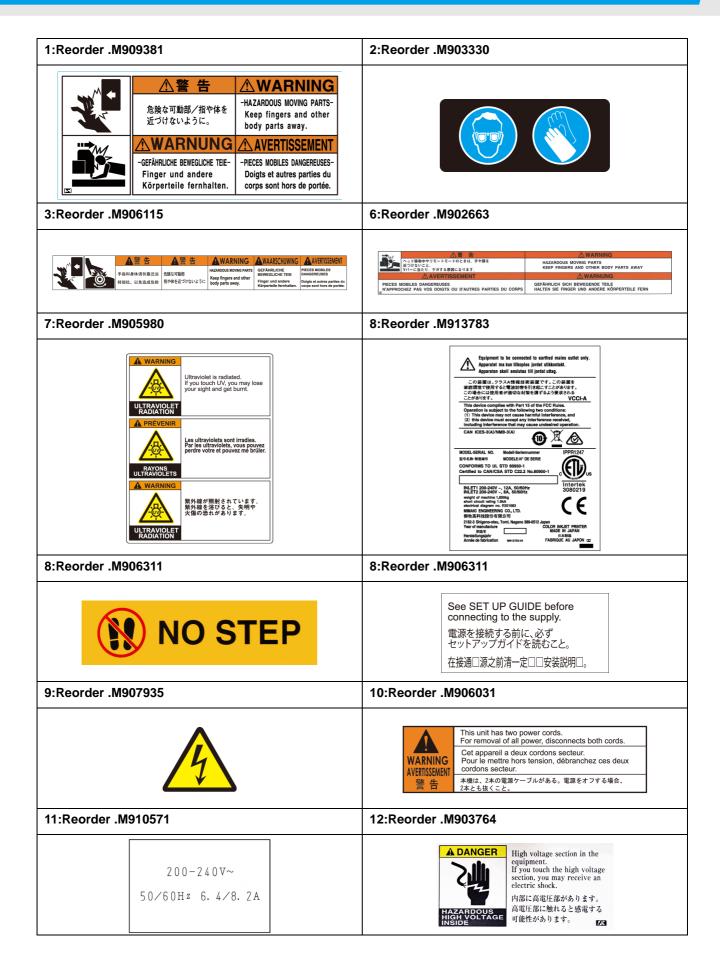
Cautions on Installation

A place exposed to direct sunlight	On an inclined surface	A place where temperature or humidity varies significantly	
		 Use the machine under the following environmental conditions: Operating environment: 15 to 30 °C (59 to 86 °F) 35 to 65 % (Rh) 	
A place that vibrates	A place exposed to direct air flow from an air conditioner or the like.	Around a place where fire is used	
A place with much dust	A place with chemicals around		

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.





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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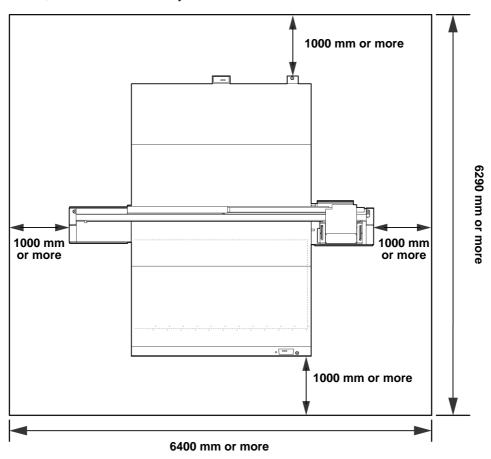
Where to Install This Machine

This machine features high-speed parts, hot parts and UV irradiating parts which need very careful attention. Use of this machine is limited to the user who understands the risks of inappropriate use completely.

Model	Width	Depth	Height	Gross weight
JFX200-2531	4400mm	4290mm	1250mm	1000kg

⁽Important!

• A service engineer will perform installation work of this machine. At this time, he/ she will contact you and explain about the usage and the installation of this machine. After fully understanding that content, use this machine safely.





- When you usually use photographic fixer, do not install this machine in a room filled with vapor of photographic fixer. If you install this machine in such a room, ink adhering to the head hardens and it may cause image quality defect that cannot be improved even if you perform head cleaning many times and may cause nozzle clogging.
- Besides photographic fixer, if you leave this machine in an environment where acidic vapor (acetic acid, muriatic acid, etc.) is generated, the same phenomenon occurs.
- Do not use the machine in an environment full of metal cutting fluids or materials containing highly volatile substances (amines, amine-denatured alcohols). Also, isolate ink, maintenance kits and the machine from such an environment. This may cause nozzle clogging.

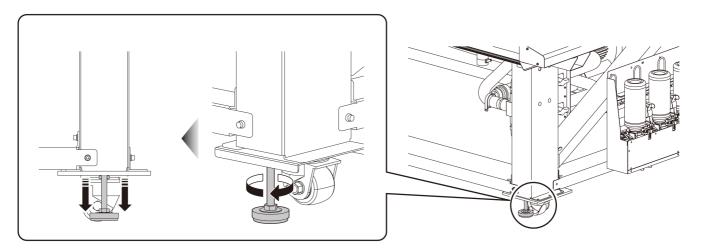
Working Environmental Temperature

Use this machine in an environment of 15 to 30°C to ensure reliable printing.

About fixing machine

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

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





• Put the supplied base plate (gray) made of resin between each leveling foot and the floor. To hold the weight of the printer, using plate is recommended.

Moving This Machine

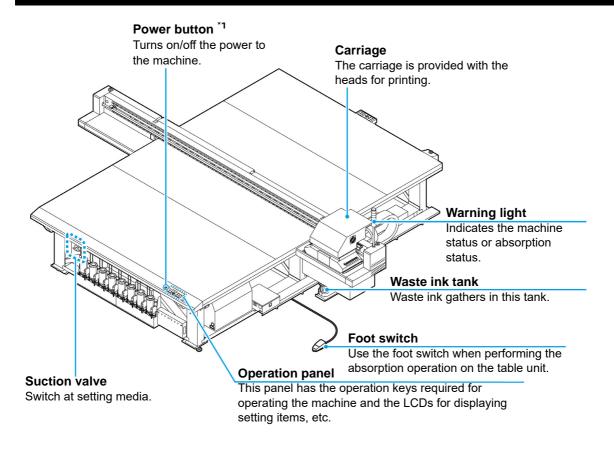


 When the machine is moved to any place other than on the same step-free floor, contact your distributor or our service office.
 If you move it by yourself, failure or damage may occur.

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

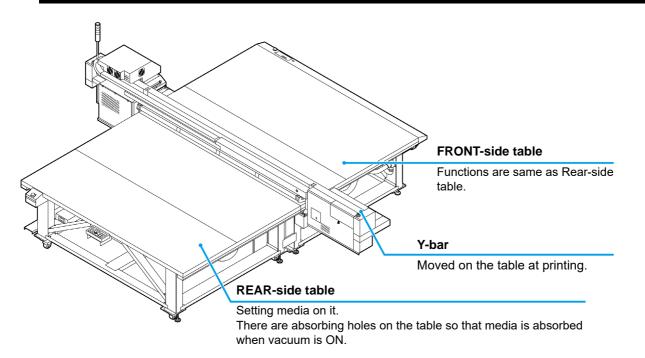
Names of Parts and Functions

Front Side of the Machine



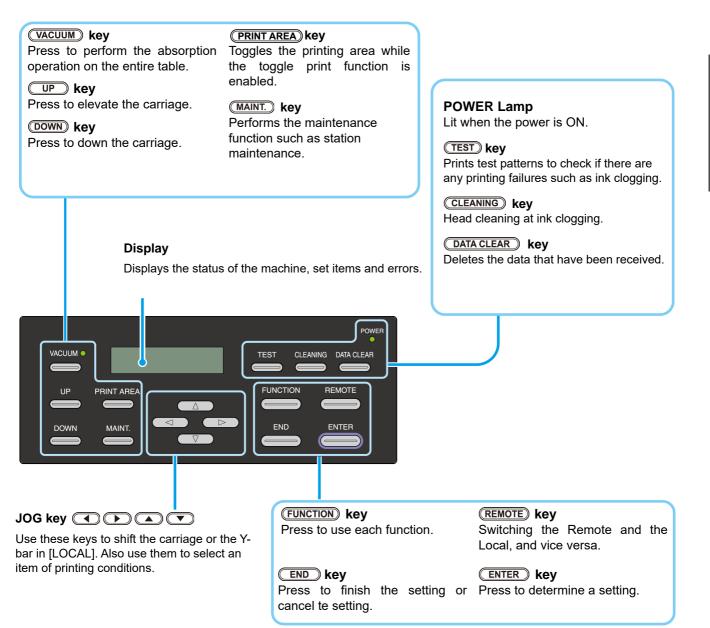
*1 : When the power supply button is turned ON, it lights in green, and when it is OFF, it goes out. The ink clogging prevention function is periodically operated even when the power button is OFF. (Auto maintenance function)

Rear Side and Right Side of the Machine



Operation Panel

Use the operation panel to make settings for printing or operate this machine. The panel is installed at two positions: On the front side and the rear side.

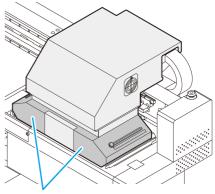


Carriage

The carriage is provided with the heads for printing and LED UV unit.



- Do not expose your naked eyes directly to the light irradiated from the LED UV when it lights.
- Do not touch the LED UV unit when it is being lit or just after it is set OFF. It may cause a burn injury, as it is very hot.





Capping station

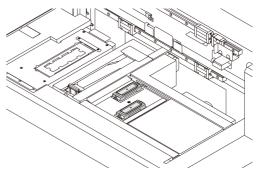


• Be sure to wear the attached goggles in cleaning within the capping station to protect your eyes against ink. Otherwise, you may get ink in your eyes.

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

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

The wiper is consumable. If the wiper is deformed or the media is stained, replace the wiper with a new one. (\bigcirc P.4-30)



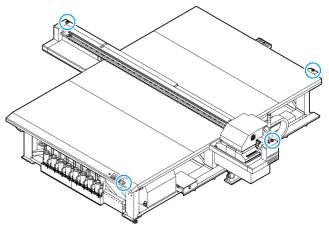
EMERGENCY SWITCH

One EMERGENCY switch is placed on the front face of the unit, two are on Y-bar, and one on the back. When stopping the machine for safety reason, press the switch.

(Important!)

When you press the emergency switch and the machine stops, be sure to follow the procedures below:

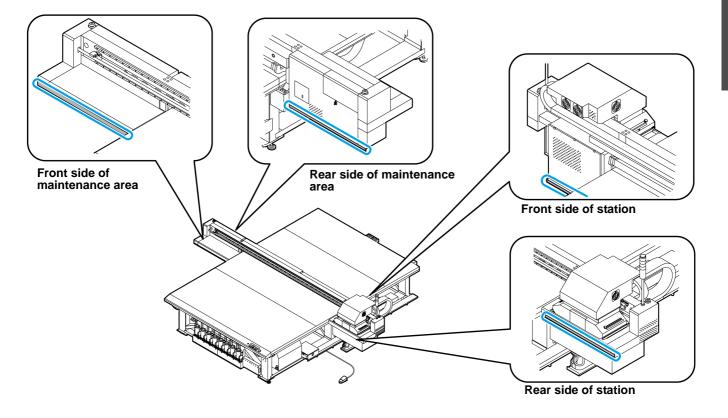
- (1) Disconnect from the outlet before resolving the fault.
- (2) After checking the safety, pull the emergency switch upward (or rotate) to release.
- (3) Connect to the outlet.



Safety sensor

This machine is equipped with safety sensors on the front and rear sides of the station and maintenance area. Any contact with the safety sensor will immediately stop the motor and cut off excitation. When detecting any contact with the safety sensor, this machine displays a confirmation screen. Check the condition around the machine and press the <u>ENTER</u> key.

Safety sensor installation position



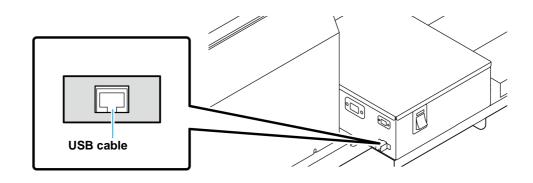
Connecting Cables

Connecting USB2.0 Interface Cable

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



- 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.



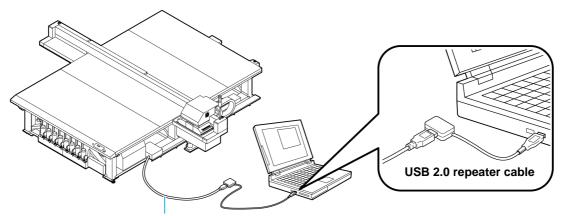
Notes on USB 2.0 Interface

(mportant!) • Your RIP must be compatible with USB 2.0.

• When two or more JFX200 machines are connected to one personal computer

When two or more JFX200 machines are connected to one personal computer, the personal computer may not recognize all the JFX200 machines normally.

Reconnect the unrecognized JFX200 machine to another USB port, if available, and check to see if it is recognized. If the JFX200 machine is not recognized by the newly connected USB port, use USB 2.0 repeater cables available on the market. (However, keep the distance between the JFX200 and the personal computer within 20 m.)



Use a USB cable that is less than 5 m.

• Notes on peripheral devices in USB high speed mode

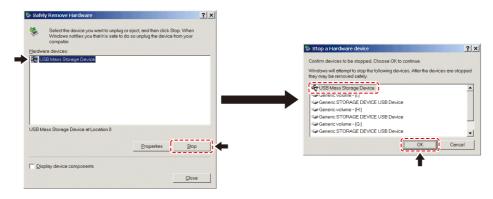
When a peripheral device (USB memory or USB HDD) to be operated in USB high speed mode is connected to the same personal computer that a JFX200 machine is connected to, the USB device may not be recognized. When JFX200 is connected to the personal computer to which an external HDD is connected via USB, the speed of data output to JFX200 may drop. That can cause the head unit to stop temporarily at the right or left end during printing.

Use a USB cable that is less than 5 m. If it is necessary to use one that is 5 m or longer, use a commercially available USB 2.0 repeater cable.

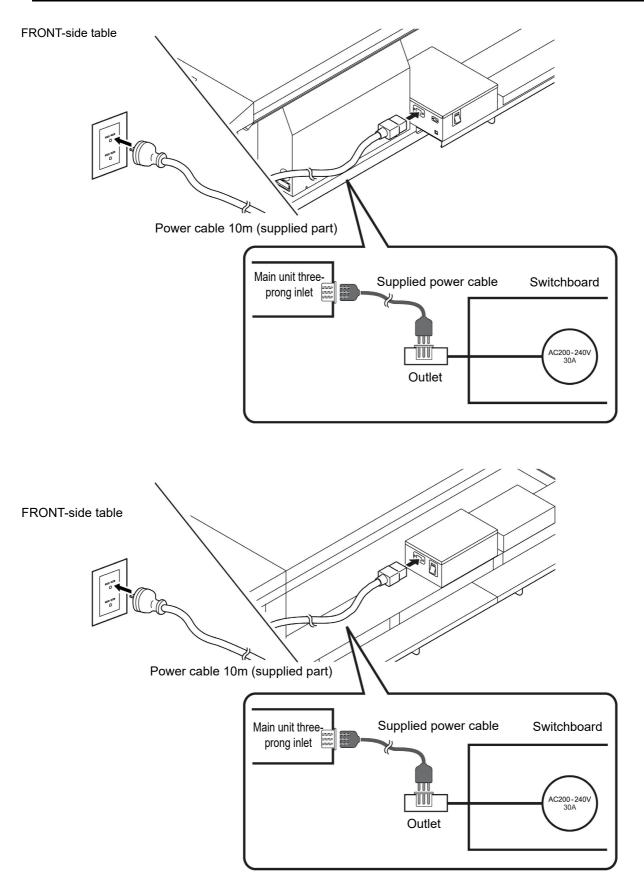
• Removing USB memory

If a USB memory module is inserted in the personal computer to which a JFX200 machine is connected, click "Stop" in the "Safely Remove Hardware" window by following the instructions given there first and then remove the module.

Leaving a USB memory module inserted can cause [ERROR 201 COMMAND ERROR]. Copy the data onto the hard disk before outputting it for printing.



Connecting Power Supply Cable



Ink bottles

Setting ink bottles

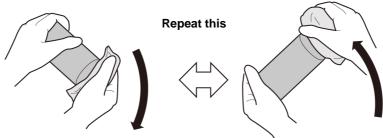


Take out the ink bottle, and slowly shake it twenty times and more.

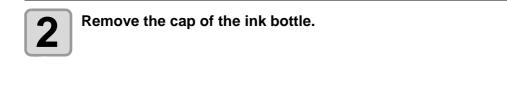
• To prevent ink from leaking when you shake it, wear gloves and cover the ink bottle cap with a paper towel etc. Being in that status, slowly shake it twenty times and more by flowing ink.



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



Cover with paper towel firmly and shake ink slowly

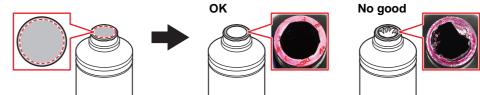




(Important!)

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

(1) Use a craft knife tool to cut out a circle of seal. If there is any leftover cut, it may cause ink to leak.



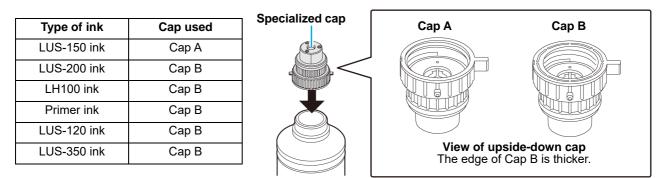
- (2) Do not scratch the mouth of the ink bottle. There is a risk of ink leaking from the scratched area.
- (3) Be careful not to drop pieces of the seal into the ink bottle. If you use the bottle with pieces of the seal inside, there is a risk that the special cap will get stuck and the ink supply will be interrupted.



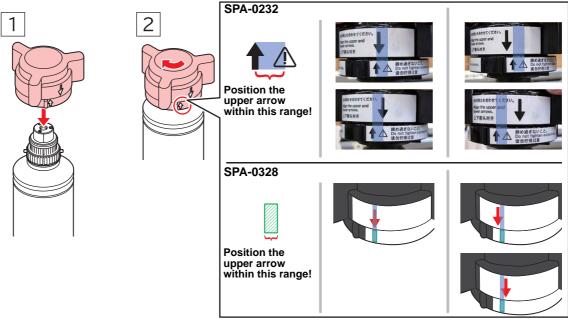
Attach the specialized cap to the ink bottle.

(1) Set the specialized cap on the bottle.

• The specialized cap that is used differs depending on the type of ink that is set.



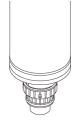
(2) Tighten the specialized cap using the tightening jig.





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

(3) Turn the bottle upside-down and check that ink does not leak.



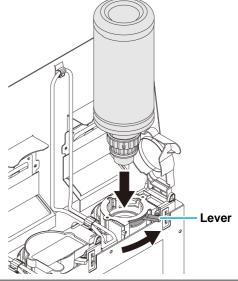
(Important!)

• Do not leave an ink bottle with the specialized cap attached in a location where it is exposed to light for a long period of time. Doing so can result in the ink in the bottle curing (hardening).



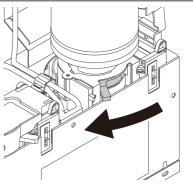
Set the ink bottle on the tank.

- Set the ink bottle while moving the lever on the tank completely to the right.
- (Important!)
- Do not ever rotate the ink bottle at all after setting it into the tank.
 Doing so can result in ink leakage.





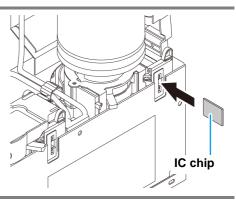
Move the lever on the tank completely from the right to the left side.





Insert the IC chip.

- Insert the IC chip with the left side with metal upward. If you insert the wrong side by accident, it causes faulty or damage of the IC chip.
- Do not touch the metal part of the IC chip. It may break the IC chip by static, or may cause read error by stain or flaw.
- For the setting orders of the ink bottles, refer to P.6-4.





About IC chip

- The IC chip has information of ink color, remaining amount of ink, expiration data, etc. When setting the ink bottle, insert the IC chip packed with the ink bottle into the IC chip inserting port attached with the ink cover.
- If you set the IC chip not being the pair of the ink bottle, image quality defect etc. may occur.
- The mark indicating color information is pasted on the IC chip.

Ink color	Indication mark
Black	(one black circle)
Cyan	one blue circle)
Magenta	(one red circle)
Yellow	one yellow circle)
Ligth cyan	(one blue circle)
Light magenta	(one red circle)
White	(one white circle)
Clear	(two white circles)
Primer	(three white circles)

Ink color and indication mark



Mark indication position

Replace the ink bottle

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



• Check for dust or debris on the cap before setting the bottle. If any paper or dust adheres to the cap, it may cause a clogged path defection.

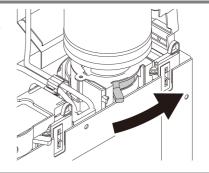
• When [INK END] is displayed



Move the lever on the tank completely from the left to the right end.

• Do not ever rotate the ink bottle at all after setting it into the tank. Doing so can result in

ink leakage.

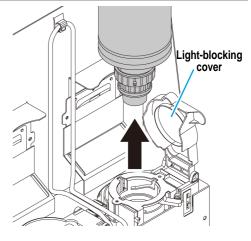




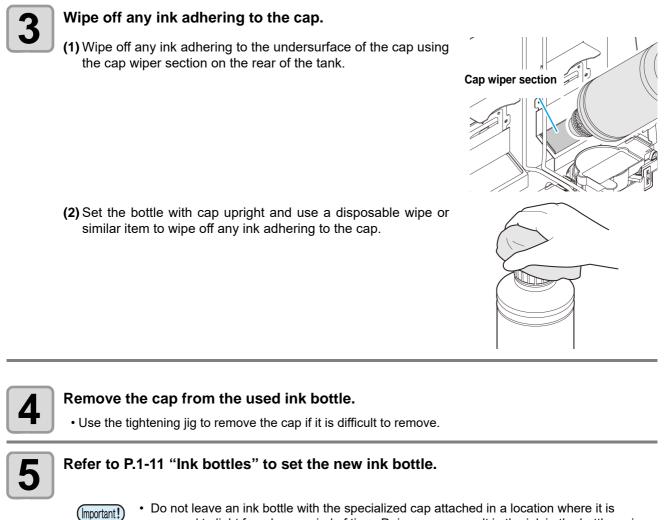
Lift out the ink bottle while keeping it completely straight.

(Important!)

 Check that the light-blocking cover closes when removing the ink bottle from the tank. Close by hand if the cap does not close. Leaving the light-blocking cover open can result in the ink curing.



Before Use



exposed to light for a long period of time. Doing so can result in the ink in the bottle curing.

• When [INK NEAR END] is displayed

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

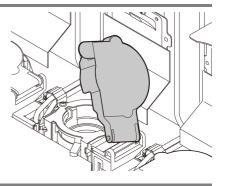
When you press the **ENTER** key in LOCAL, you can check the bottle to be replaced in the local guidance. (@ P.3-48)

If the light-blocking cover comes off

If the light-blocking cover comes off, light striking the inside of the tank can result in the ink curing. Perform the following procedures if the light-blocking cover comes off.

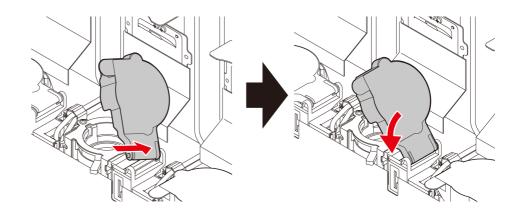


Insert the nub (on one side) of the light-blocking cover into the hole on the tank.



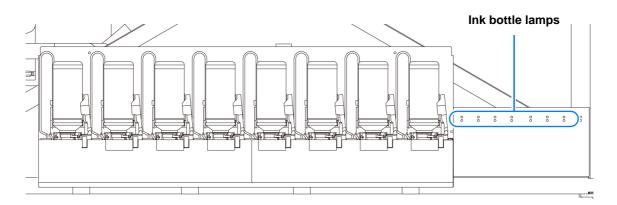


While pressing towards the side of the inserted hole of Step 1, insert the other nub into the other side.



For Ink bottle lamps

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



Condition of Ink bottle lamp	Description
OFF	No error
Blinks in red.	There is less ink in the ink bottle (Near End). Or, one month has passed from the expiration date of ink. It will become unusable soon.
Lights in red.	There is no ink in the ink bottle, or the ink bottle cannot be used due to other ink error. ($\textcircled{P.5-4}$)
Blinks in red (fast).	As two months have passed from the expiration date of ink, you cannot use the ink bottle.
Lights in green.	Indicates that ink is supplied. When you use 4-color ink set, this machine first supplies ink from the ink bottle whose ink expires soon.
Blinks in red and green alternately.	It blinks in red and lights in green alternately.

About ink expiration date

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

Ex.) The expiration date is April 2020

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



The message appears on the display.

About ink end and ink near end

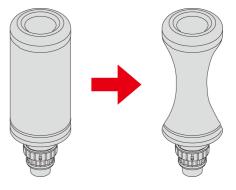
When it becomes lnk near end (remaining amount of ink is less), the ink bottle lamp blinks in red to inform you of it. It is recommended to replace it with new one as soon as possible.

When it becomes lnk end (remaining amount of ink is none), the ink bottle lamp lights in red to inform you of it. Replace the ink bottle.

Caution in handling of ink bottles



- If you get ink in your eyes, immediately wash your eyes with a lot of clean running water for at least 15 minutes. In doing so, also wash the eyess to rinse ink away completely. Then, consult a doctor as soon as possible.
- Use genuine ink bottles for this machine. This machine functions by recognizing the genuine ink bottles. In case of troubles caused by modified ink bottles or the like, it shall be out of the warranty even within the warranty period.
- Store the ink bottle in a place not more than 1 m off the ground. If you store it in a place higher than 1 m, should the ink bottle fall, the cap may come off, spilling the 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.
- Make sure to store ink bottles in a cool and dark place.
- Store ink bottles and waste ink tank in a place that is out of the reach of children.
- Request an industrial waste processor for processing of empty ink bottles.
- Be sure to thoroughly consume the ink in the ink bottle, once it is opened, within three months. If an extended period of time has passed away after opening the ink bottle, printing quality would be poor.
- Do not shake ink bottles violently. This may result in ink leakage from the ink bottles.
- Never refill the ink bottles with ink. This may result in troubles.
 - MIMAKI will not bear any responsibility for any damage caused by the use of the ink bottles refilled with ink.
- Do not touch or stain the contacts of the IC chip. This may cause damages on printed circuit boards.
- The shape of an ink bottle installed in the machine might collapse as shown in the figure on the right. This is normal, and does not affect the use or operation of the machine.





Usable media sizes and notes for handling are described.

Usable sizes of media

Model	JFX200-2531
Maximum width	2580mm
Maximum length	3100mm ^{*1}
Maximum printing width	2500mm
Thickness	Less than 50mm
Weight *2	Less than 325kg

*1. 1300mm (FRONT/REAR) when the toggle print function is enabled.

*2. A rough guide is 50 kg per 1 m².

Caution in handling of medias

Pay attention to the followings for handling of medias.

(moortant!) • Extension and shrinkage of the media

Do not use the media in the sheet form shortly after the package was opened. The media could extend or shrink depending on the temperature and humidity inside the room. For more than 30 minutes after opening of the package, the media has to be exposed to the ambient air of the location it is to be used.

· Warping of the media

As for the media of the sheet form, use the flat one, or the one warping downward (the one with floating central part when placed the printing surface facing upward.) The media warping upward could not be absorbed in some cases onto the table. Store the media liable to be warped on the slightly smaller platform or palette so that it may warp downward.

Be careful not to warp the media out of the absorption area.

Absorption of the media

To maintain the absorption effect, cover the suction holes not covered by the media with other media which is thinner than the media.

Other precautions

a Do not place any article on the surface of the coated paper. Some coated paper could change its color.

- **b** Curled media that cannot be absorbed or the media that misaligns when the Y-bar is moved may not be used. Before using, fix the media with adhesive tape, etc.
- **c** Do not use the media that will generate warping or deformation even if the logical seek is set "OFF".
- **d** As the bed surface is constructed of multiple boards, their joint lines could be reflected on the printed images depending on the thickness and elasticity of the media. Similarly, the suction holes could affect the printed images. Perform the printing after confirming that there is no problem by making the test printing in advance.

1-20

Chapter 2 Basic Operations



This chapter

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

Workflow	2-2
Turning the Power ON/OFF	2-3
Turning the Power ON	2-3
Turning the Power OFF	2-4
Setting a Media	2-5
Setting the Media	2-5
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Test Printing2	2-14

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Perform head cleaning depending on th	e test
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Workflow

Turning the Power ON/OFF	Referring to "Turning the Power ON/OFF" ((RPP P.2-3).
2 Setting a Media	Referring to "Setting a Media" (@ P.2-5).
3 Move the irradiation position of the UV lamp	Referring to "Move the irradiation position of the UV lamp" (@ P.2-8).
Test Printing	Referring to "Test Printing" (@ P.2-13).
5 Head Cleaning	Referring to "Head Cleaning" (@ P.2-15).

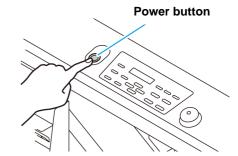
Turning the Power ON/OFF

Turning the Power ON



Push the power button.

• Push the power button located on the left side of the operation panel.



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



The machine enters LOCAL.

LOCAL>	

Start-up

JFX200

Ver 1.0

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Turn ON the power of the connected PC.

You should normally leave the machine plugged into the power source outlet. Leaving the machine
unplugged can result in clogging of the head nozzle. Depending on the symptoms, it might be difficult
to remedy the fault.

Turning the Power OFF

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

Check the following items when turning the power OFF.

- If the machine is receiving data from the PC or if there is any data that has not been output yet
- · If the head has returned to the capping station
- If any error has occurred ((P.5-12 "Error messages")

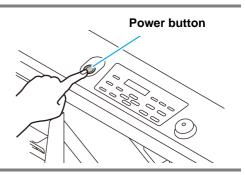


Turn OFF the power of the connected PC.



Push the power button to turn the power OFF.

- The power supply button goes out.
- To use this machine again, light the green lamp by pressing the power button.



Cautions about Turning the Power OFF

Do not unplug from the power outlet.

Leave plugged into the power outlet and periodically turn the power on so that the nozzle clogging prevention function (flushing function) and the pressure adjusting function operate.

If not plugged into the power outlet, the auto maintenance functions, such as flushing, do not operate, and this may cause nozzle clogging.

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

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

In this case, turn the power ON again and check that the head has returned to the capping station, and then turn the power OFF.

Do not turn the power OFF during printing.

The head may not return to the capping station.

• After having turned the power button OFF, remove the power cable from the outlet.

When turning off the main power switch to move the machine or for countermeasure against the error of the machine, be sure to push the power supply button on the operation panel. Check that the lamp went out, and remove the power cable from the outlet.



Even if you press the emergency switch, the power supply is not turned off.

The emergency switch is to stop the machine when the situation requires emergency stop. Even if you press the emergency switch, you cannot turn off the power supply.

Setting a Media

This machine can be used with a leaf media. For usable medias, refer to P.1-19 "Usable sizes of media".

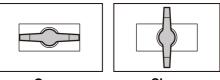
Setting the Media

(Important!)

- If, within the absorption area, there are suction holes not closed by the media, close such suction holes placing thin sheet form material such as paper, film or tape.
- The peripheral parts of the media could roll up due to heat. Fix the media supplementarily using adhesive tapes, etc.
- There are guide holes into which the attached positioning pin is inserted at the edge of the table (two sides of upper and lower of the table). Use them as the guides for setting the media straight.
 (CPP.2-7)



Switch over the suction valve at the front of the table adjusting with the size of the media to be set.



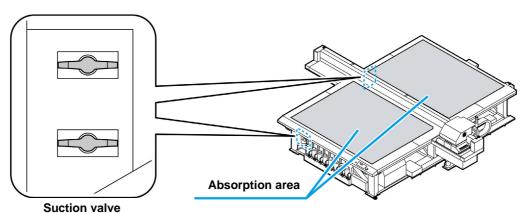
• The valve is opened when the knob is turned horizontally and closed when it is turned vertically.



Close

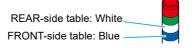
Press the VACUUM key to light the "VACUUM" lamp and vacuum the media.

• As for the details of the absorption area, please refer to P.2-6.



• Press the [VACUUM] key to perform the absorption operation on the entire table. If you want to use only one table, use the foot switch to move to the table where you want to perform the absorption operation.

- You can see the absorption point on the table by the light status of the warning light.
 - White: REAR-side table
 - Blue: FRONT-side table





(Important!)

After setting the media, set the followings.

- Register the thickness of the set media. (\bigcirc P.3-4)
- Register the head gap. ((PP P.3-6)

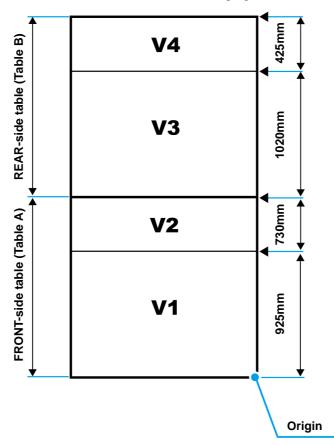


Since the table may bend, please refer the following manner.

- · Do not drop the heavy media to the table.
- Do not concentrate the weight on one point (up to 50kg / m2). (\Im P.6-2)

On the absorption area

The absorption area of JFX200-2531 is shown in the following figure.





- When changing the point of origin, please refer to P.3-2.The foot switch toggles ON/OFF for each table.

About the media guide hole

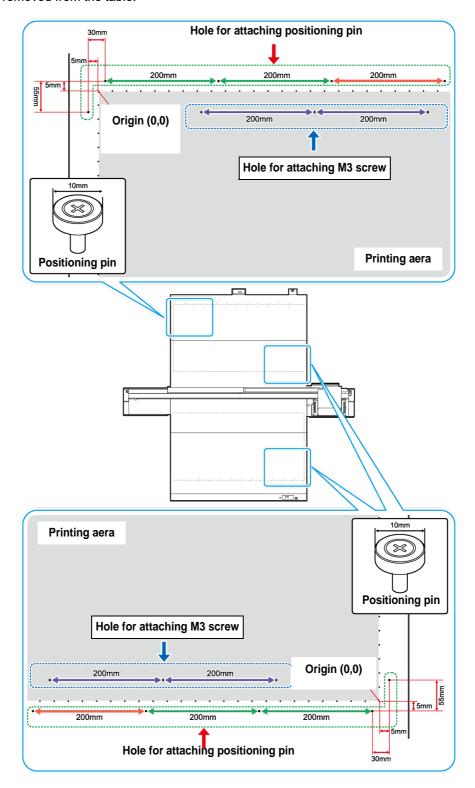
There are guide holes into which the attached positioning pin is inserted at the position shown below. Use these as a guide to set the media straight.



• You can attach the M3 screw in the marketplace instead of the attached positioning pin. In this case, you can attach the screws in two locations at the left and front of the table.



If you use the attached positioning pin, you cannot use the media of 5mm thickness and below.
If you print onto media that is no more than 5 mm thick, make sure that the positioning pin has been removed from the table.



Move the irradiation position of the UV lamp

When printing with this machine, it is necessary to move the LED UV position according to ink to use (color ink/ white ink). This machine provides three printing methods:

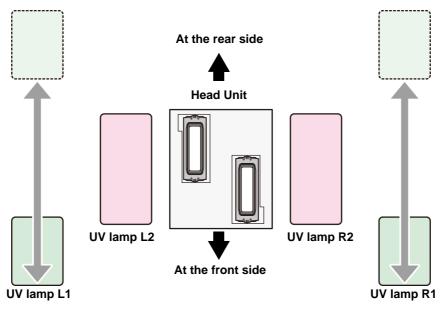
Single-layer printing: printing color ink layer on media

Two-layers printing: printing white ink layer on color ink layer

Two-layers printing: printing color ink layer on white ink layer

Best-suited position of UV lamp according to printing

This machine is equipped with four UV lamps around the head unit as below. Depending on the printing method, move the UV lamp.



(1) Adjustment on LUS-150 or LUS-200

4-colors (M/M/K/K/C/C/Y/Y)

Printing method	UV lamp position
Single-layer printing: printing color ink layer on media.	Move the right and left UV lamp to the position at 0mm.

4-colors + white (M/K/C/Y/M/C/W/W), 6-colors + white (M/K/C/Y/Lm/Lc/W/W)

Printing method	UV lamp position
Single-layer print that prints color ink layer on media.	 Move the right and left UV lamp to the position at 0mm.
Two layer print that overlap the white ink layer on the color ink layer.	Move the right and left UV lamp to the position at 0mm.
Two layer print that overlap the color ink layer on the white ink layer.	• Move the right and left UV lamp to the position at 65mm.

4-colors + clear ink + white ink (M/K/C/Y/CL/CL/W/W)

Printing method	UV lamp position
Single-layer print that prints color ink layer on media.	Move the right and left UV lamp to the position at 0mm.
Single-layer print that prints clear ink layer on media.	Move the right and left UV lamp to the position at 0mm.
Three layers print that overlap the color ink layer on the white ink layer and then, overlap the clear ink layer.	• Move the right and left UV lamp to the position at 65mm ^{*1} when printing with white + color and it move to the position at 0mm when printing with clear ink.
Thickness print that overlap the multilayer of clear ink on color ink layer.	• Move the right and left UV lamp to the position at 0mm.
Thickness print that overlap the color ink layer on the white ink layer and then, overlap the multilayer of clear ink.	 Move the right and left UV lamp to the position at 65mm ^{*1} when printing with white + color and them move to the position at 0mm when printing with clear ink.

4-colors + clear ink + primer + white ink (M/K/C/Y/Cl/P/W/W)

Drinting method	LIV/ Jamp position
Printing method	UV lamp position
Single-layer printing that prints color ink layer, white ink layer, primer layer, and clear ink layer.	 Move the right and left UV lamp to the position at 0mm.
Two layers print that overlap the color ink layer on the primer layer	 Move the right and left UV lamp to the position at 65mm.
Tow layers print that overlap white ink layer on the primer layer	 Move the right and left UV lamp to the position at 0mm.
Three layers print that overlap the color ink layer on the primer layer and then overlap the white ink layer	 Move the right and left UV lamp to the position at 0mm. (Do not change the location at the middle of the print)
Three layers print that overlap the white ink layer on the primer layer and then overlap the color ink layer	 The left and right of the UV lamp at 0mm position at primer printing Move to 65mm position at the white and color printing
Three layers printing that overlap the color ink layer on the primer layer and then overlap the clear ink layer	 The left and right UV lamp at 65mm position at primer + color printing Move to 0mm position at clear printing
Three layers print that overlap the white ink layer on the primer layer and then overlap the clear ink layer	 Move the left and right UV lamp to 0mm position. (Do not change the location at the middle of the print)
Four layers print that overlap the white ink layer on the primer layer, and then overlap the color ink layer and the clear ink layer (same for the case of thickness print of clear layer)	 The left and right UV lamp at 0mm position at the primer printing 65mm position at the white and color printing Move to 0mm position at clear printing

*1. The lamp position should be above setting when you priotize the image quarity, and the lamp position need to be changed. (The machine suspend before printing clear ink and the alarm will be shown on RasterLink.)

If you can not change the lamp position during the print, please set the lamp position at 0mm BEFORE printing.

(2) Adjustment on LH-100

4-colors (M/M/K/K/C/C/Y/Y)

Printing method	UV lamp position
Single-layer printing: printing color ink layer on media.	Move the right and left UV lamp to the position at 65mm.

4-colors + white ink (M/K/C/Y/M/C/W/W)

Printing method	UV lamp position
Single-layer print that prints color ink layer on media.	Move the right and left UV lamp to the position at 120mm.
Two layer print that overlap the white ink layer on the color ink layer.	• Move the right and left UV lamp to the position at 65mm.
Two layer print that overlap the color ink layer on the white ink layer.	• Move the right and left UV lamp to the position at 65mm.

4-colors + clear ink + white ink (M/K/C/Y/CL/CL/W/W)

Printing method	UV lamp position
Single-layer print that prints color ink layer on media.	Move the right and left UV lamp to the position at 120mm.
Single-layer print that prints clear ink layer on media (mat and gross).	• Move the right and left UV lamp to the position at 0mm.
Two layer print that overlap the clear ink layer on the color ink layer (mat and gross).	• Move the right and left UV lamp to the position at 0mm.
Three layers print that overlap the color ink layer on the white ink layer and then, overlap the clear ink layer.	 Move the right and left UV lamp to the position at 65mm^{*1} when printing with white + color and it move to the position at 0mm when printing with clear ink.
Thickness print that overlap the multilayer of clear ink on color ink layer.	• Move the right and left UV lamp to the position at 0mm.
Thickness print that overlap the color ink layer on the white ink layer and then, overlap the multilayer of clear ink.	• Move the right and left UV lamp to the position at 65mm ^{*1} when printing with white + color and them move to the position at 0mm when printing with clear ink.

4-colors + clear ink + primer + white ink (M/K/C/Y/Cl/P/W/W)

Printing method	UV lamp position
Single-layer print that prints a color ink layer on the media	 Move the right and left UV lamp to the position at 120mm.
Single-layer print that prints a white ink layer on the media	 Move the right and left UV lamp to the position at 65mm.
Single-layer print that print primer layer and clear ink layer on the media	 Move the right and left UV lamp to the position at 0mm.
Two layers print that overlap the color ink layer on the primer layer	 Move the right and left UV lamp to the position at 65mm.
Tow layers print that overlap white ink layer on the primer layer	 The left and right UV lamp at 0mm position at the primer printing Move to 65mm position at white ink printing.
Three layers printing that overlap the color ink layer on the primer layer and then overlap the white ink layer	 The left and right UV lamp at 0mm position at the primer printing Move to 65mm position at color + white printing

Three layers print that overlap the white ink layer on the primer layer and then overlap the color ink layer	 The left and right of the UV lamp at 0mm position at prime printing Move to 65mm position at the white and color printing 	
Three layers printing that overlap the color ink layer on the primer layer and then overlap the clear ink layer	 The left and right UV lamp at 65mm position at primer + color printing Move to 0mm position at clear printing 	
Three layers print that overlap the white ink layer on the primer layer and then overlap the clear ink layer	 Move the left and right UV lamp to 0mm position. (Do not change the location at the middle of the print) 	
Four layers print that overlap the white ink layer on the primer layer, and then overlap the color ink layer and the clear ink layer (same for the case of thickness print of clear layer)	 The left and right UV lamp at 0mm position at the prime printing 65mm position at the white and color printing Move to 0mm position at clear printing 	

*1. The lamp position should be above setting when you priotize the image quarity, and the lamp position need to be changed. (The machine suspend before printing clear ink and the alarm will be shown on RasterLink.) If you can not change the lamp position during the print, please set the lamp position at 0mm BEFORE printing.

(3) Adjustment on LUS-120, LUS-350

4-colors (M/M/K/K/C/C/Y/Y)

Printing method	UV lamp position	
Single-layer printing: printing color ink layer on media.	• Move the right and left UV lamp to the position at 0mm.	

4-colors + white ink (M/K/C/Y/M/C/W/W)

Printing method UV lamp position		
Single-layer print that prints color ink layer on media.	• Move the right and left UV lamp to the position at 0mm.	
Two layer print that overlap the white ink layer on the color ink layer.	Move the right and left UV lamp to the position at 0mm.	
Two layer print that overlap the color ink layer on the white ink layer.	• Move the right and left UV lamp to the position at 190mm.	

4-colors + clear ink + white ink (M/K/C/Y/CL/CL/W/W)

Printing method	UV lamp position	
Single-layer print that prints color ink layer on media.	Move the right and left UV lamp to the position at 0mm.	
Single-layer print that prints clear ink layer on media.	Move the right and left UV lamp to the position at 0mm.	
Three layers print that overlap the color ink layer on the white ink layer and then, overlap the clear ink layer.	• Move the right and left UV lamp to the position at 65mm ^{*1} when printing with white + color and it move to the position at 0mm when printing with clear ink.	
Thickness print that overlap the multilayer of clear ink on color ink layer.	• Move the right and left UV lamp to the position at 0mm.	
Thickness print that overlap the color ink layer on the white ink layer and then, overlap the multilayer of clear ink.	• Move the right and left UV lamp to the position at 65mm ^{*1} when printing with white + color and them move to the position at 0mm when printing with clear ink.	

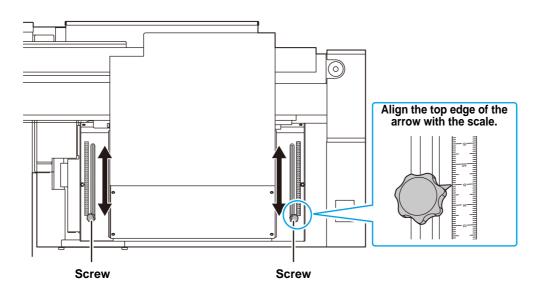
*1. The lamp position should be above setting when you priotize the image quarity, and the lamp position need to be changed. (The machine suspend before printing clear ink and the alarm will be shown on RasterLink.) If you can not change the lamp position during the print, please set the lamp position at 0mm BEFORE printing.



• LUS-350 ink has only 4color and white combination.

Positioning method of UV lamp

This part explains the method to move the UV lamp for right and left of the carriage. Loosen the screw of the lamp you move, slide it.





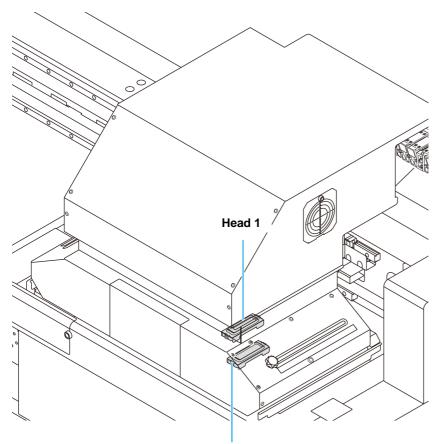
• Be careful not to drop foreign object into the groove for moving the UV lamp. If metal substance such as a screw may drop there, it may cause ignition.

Test Printing

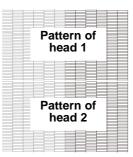
Print a test pattern to check that there are no discharging defects such as nozzle clogging (slight touching of ink or nozzle missing).

Relationship between head row and test pattern

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



Head 2



Media advance direction

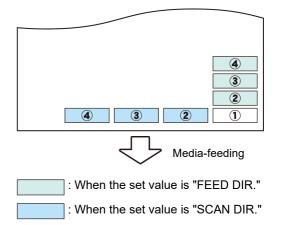
Test Printing

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

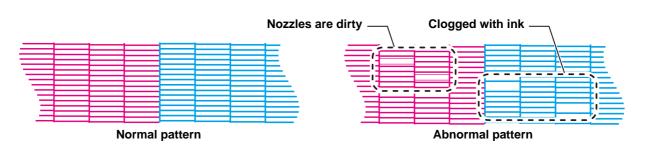
In addition, you can select the orientation of the test pattern to print from two types in order to perform test printing repeatedly. Select one depending on your use.

• When the toggle print function is enabled, select the area to perform test printing. For the selecting procedure, refer to "Print functions with printing area selection" in P.xx-xx "Starting toggle printing"

Check before test printing.		
• If a media has been set ☞ P.2-5	 If the origin position has been set 	
 If the head height has been adjusted IP P.3-6 		



 Press the TEST key in LOCAL. Press Test ochange the test pattern orientation. 	TEST PRINT (FEED DIR.) [ENT]
Press the ENTER key.	
3 Press (A), to select NOZZLE RECOVERY function ON/OFF.	TEST PRINT NOZZLE RECOVERY : ON
• Operation of this procedure can not be set if the nozzle re not registered or a "CONFIRM MENU" of nozzle recovery	
4 Press the ENTER key. • Test printing starts.	** PRINTING ** PLEASE WAIT
• When the printing has been completed, the screen returns to step1.	TEST PRINT (FEED DIR.) [ENT]
 When the printing has been completed, the screen returns to step1. Check the printed test pattern. When the result is normal, end the operation. When the result is abnormal, perform head cleaning. (CP P.2-15) 	



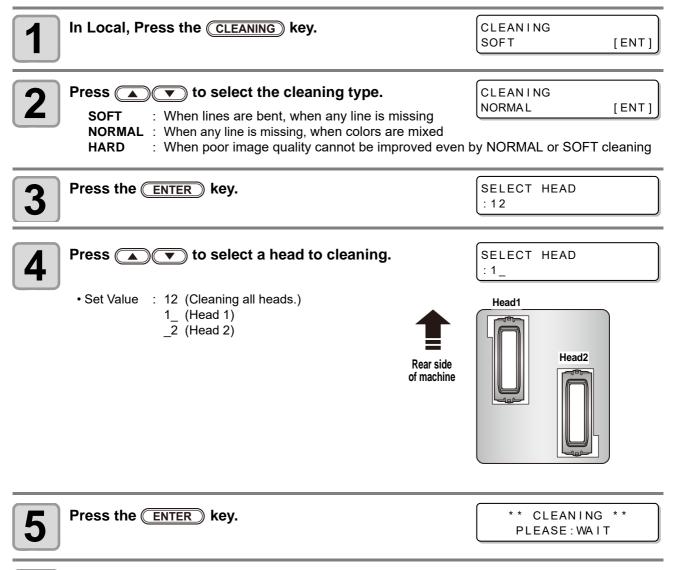
About nead cleaning

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

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

Perform head cleaning depending on the test printing result

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





Perform test printing again, and check the result.

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



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

- Clean the wiper and ink cap. (CP P.4-4)
- By referring to "NOZZLE RECOVERY: When nozzles missing can not be improved at specific points, other good nozzles can be used as alternatives for printing.", set the nozzle recovery (@PP.4-23).

Basic Operations

Printing Data

Starting a Printing Operation

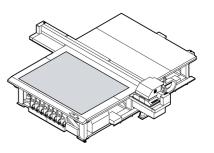
```
(Important!)
```

To perform toggle printing, refer to P.3-22 "Starting toggle printing".



Setting a Media ((P.2-5)

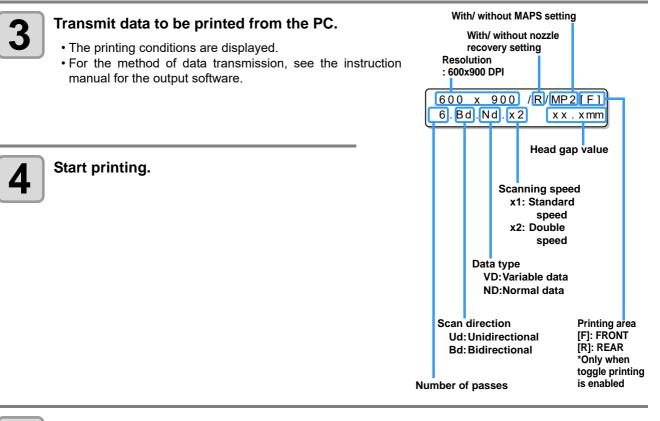
- (1) Open/Close the suction valve adjusting to the media size.
- (2) Press the <u>VACUUM</u> key to light the VACUUM lamp and vacuum the media.





Press the **REMOTE** key in LOCAL.

• The screen changes to REMOTE, and data can be received from the PC.



5 Taking out the me

Taking out the media after completion of printing

(1) Follow the "Move the Y-bar" (P.2-18) to evacuate the Y-bar from the table.
(2) Press the VACUUM key to turn the suction OFF.
(3) Remove the media.

(Important!)

• During printing, media may be heated by the LED UV and raised, causing printing to be interrupted. In this case, set new media and restart printing.

Stopping a printing operation halfway

Perform the following operation when stopping a printing operation halfway.



Press the **REMOTE** key during printing.

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

Deleting Received Data (Data Clear)

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

Press the <u>DATA CLEAR</u> key in LOCAL.	DATA CLEAR
 Press the ENTER key. The received data is erased then it returns to the Local. 	** DATA CLEAR **

2



Move the Y-bar

When you wish to check the printing results etc., you can move the Y-bar. Set the evacuation position (view position) of the Y-bar in advance.

Setting the view position

Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
Press the ENTER key.	VIEW START [ENT]
3 Press • .	VIEW SET VIEW POS [ENT]
Press the ENTER key.	SET VIEW POS = **** mm
 Set the moving position by pressing the or keys. If you press key, the Y-bar will move to the back of the table centering the origin. If you press key, the Y-bar will move to the front of the table centering the origin. 	SET VIEW POS = 500 mm
6 ENTER Press the ENTER key. • The value is set, and the screen returns to Step 2.	**MOVING NOW** PLEASE WAIT

Evacuation of Y-bar from the table

Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
Press the ENTER key.	VIEW START [ENT]
B Press the ENTER key. • The Y-bar moves.	* * MOVING NOW* * PLEASE WAIT

Chapter 3 Extended Functions



This chapter

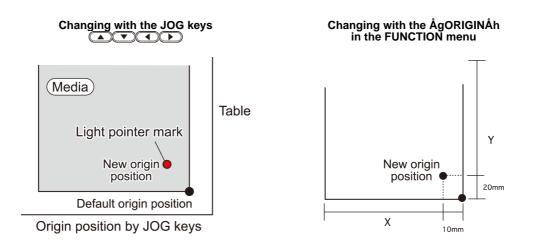
describes the operation procedures for using the machine more conveniently and each setting procedure.

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Measuring the thickness of the media auto	omati-
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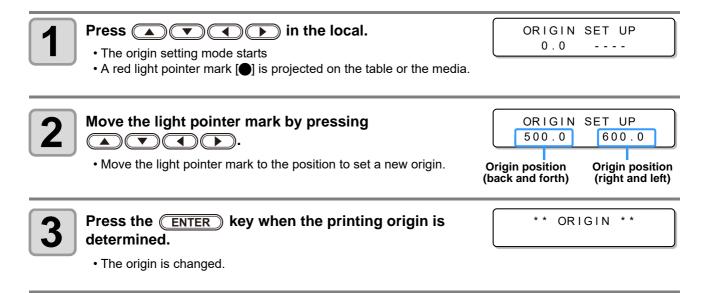
Changing origin

The default origin position can be changed. There are following 2 changing methods.



• When the toggle print function is enabled, refer to "Changing printing origin" in P.3-22 "Starting toggle printing".

Changing origin with JOG keys



(Important!) • The setting value for the origin set with the JOG keys is cleared by cutting the power.

Changing origin with FUNCTION menu

To precisely set the origin of coordinates, set its X- and Y- coordinates from the FUNCTION menu. This setting value becomes the origin position (0, 0).

1	Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
2	Press (To select [ORIGIN] and press the ENTER key twice. • X-axis offset value setting screen is displayed.	ORIGIN 3100 mm XOFFS : 3100 mm
3	 Press to input the X offset value. Setting the origin position of X-axis. 	ORIGIN 1300 mm XOFFS : 1290 mm
4	Press the ENTER key.	ORIGIN SELCT:X OFFSET
5	Press (The select [Y OFFSET] and press the ENTER key.	ORIGIN SELCT:Y OFFSET
6	 Press to input the Y offset value. Setting the origin position of Y-axis. 	ORIGIN 2500 mm YOFFS : 2090 mm
7	Press the ENTER key.	ORIGIN SELCT:Y OFFSET
8	Press the <u>END</u> key several times to end the setting.	

(Important!) • The set value is not cleared by cutting the power.

3

Registering the thickness of the media

Register the thickness of loading media.

There are three types of registering; "Register the thickness of the media manually", "Adjust the gap with the <u>UP</u> or <u>DOWN</u> keys", and "Measuring the thickness of the media automatically".

(Important!)

• When the toggle print function is enabled, refer to "Changing printing origin" in P.3-22 "Starting toggle printing".

Register the thickness of the media manually

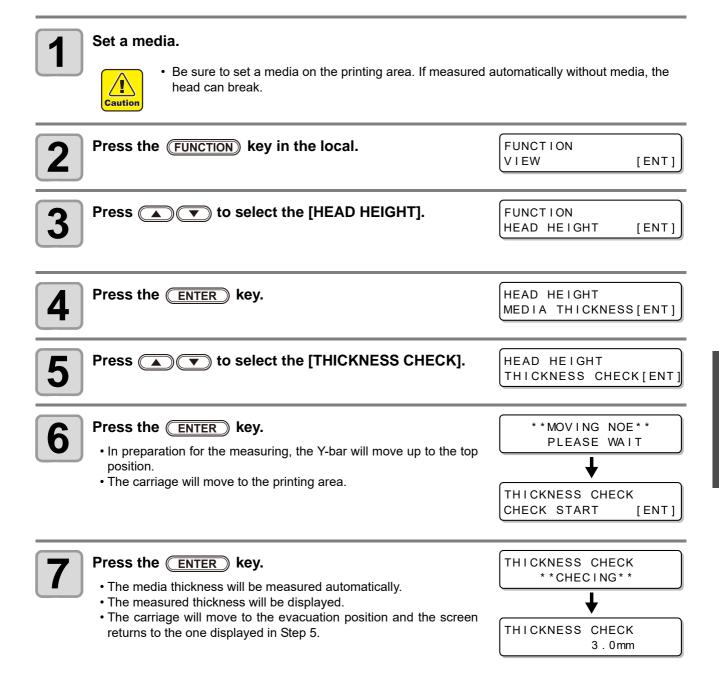
Press the FUNCTION key in the local.	FUNCTION VIEW [ENT]
Press • to select the [HEAD HEIGHT].	FUNCTION HEAD HEIGHT [ENT]
3 Press the <u>ENTER</u> key twice.	MEDIA THICKNESS = 2.5 mm
Press To enter the thickness of loading media. • Set value : 0.0 to 50.0mm	MEDIA THICKNESS = 10.5 mm
4 media.	

Adjust head gap with the UP or DOWN keys

Press the UP or DOWN key.	ORIGIN SET UP Z HEIGHT = 45.0
Adjust with pressing the UP or DOWN key.	ORIGIN SET UP Z HEIGHT = 50.0
3 Press the <u>ENTER</u> key.	ORIGIN SET UP HEAD GAP = 1.2mm
	ORIGIN SET UP MEDIA t = *.*mm

Measuring the thickness of the media automatically

Thickness of media is automatically measured with the gap pin on the left of the carriage.





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



• Difference of automatic measure is ± 0.1 mm.

3

Registering Head gap value

Set the head gap (height from the media to the nozzle plane of the heads).

When the carriage is to move above the platen for printing or maintenance, it moves while keeping the head gap at the preset value.

The upper limit of the head gap varies with media thickness.

Available setting values: [1.2 mm to 3.0 mm] (in units of 0.1 mm / Default : 1.5 mm)

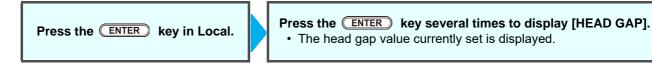
Press the (FUNCTION) key in the local.	FUNCTION VIEW [ENT]
Press To select the [HEAD HEIGHT].	FUNCTION HEAD HEIGHT [ENT]
3 Press the <u>ENTER</u> key.	HEAD HEIGHT MEDIA THICKNESS[ENT]
Press (To select the [HEAD GAP].	HEAD HEIGHT HEAD GAP [ENT]
5 Press the <u>ENTER</u> key.	HEAD GAP = 2.0mm
 Press to set a value of the head gap. Set value : 1.2 to 3.0mm 	HEAD GAP = 2.0mm
7 Press the ENTER key.	HEAD HEIGHT HEAD GAP [ENT]
8 Press the END key several times to end the setting.	



• If a correct value is not set to the head gap value, the print quality may be deteriorated because of dropping of large ink droplets on the media at printing

How to check the value of the head gap

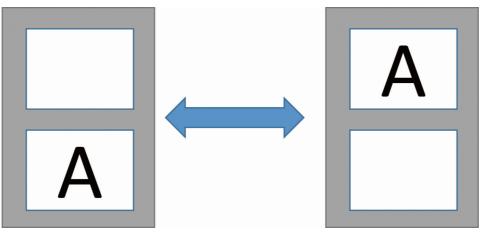
When you check the head gap value currently set, perform the following procedures:



Toggle Print

You can divide the printing area into two areas and toggle the area for each printing.

While printing in one area, you can set a media for the other area to reduce the time required for media setting.



While printing the FRONT-side area, set the media for the REAR-side area.

While printing the REAR-side area, set the media for the FRONT-side area.

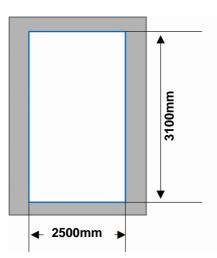


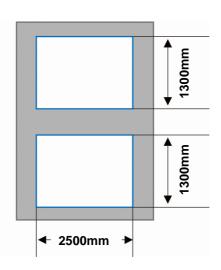
 $\ensuremath{\cdot}$ When the toggle print function is enabled, printable size changes.

	Toggle print function		
	OFF ON		
Max. printing area	2500mm X 3100mm	FRONT side : 2500mm X 1300mm REAR side : 2500mm X 1300mm	

When the toggle print function is OFF

When the toggle print function is ON





There are two types of toggle printing methods.

FF ORIGINS	This method is used to replace the media and check the printing results from the front side of the table for both FRONT/REAR. Using this method increases efficiency in media setting when operated by one person.
FR ORIGINS	This method is used to replace the media and check the printing results from the rear side of the table for the REAR-side area. Using this method increases efficiency in media setting when operated by two persons or when using a small-size media for printing.

About FF ORIGINS

Printing origin	FRONT-side area	Right front side of the FRONT-side area
	REAR-side area	Right front side of the REAR-side area
Media setting	FRONT-side area	Set a media using the media guide hole located in the right front side of the FRONT-side area.
position	REAR-side area	Set a media using the media guide hole located in the right front side of the REAR-side area.

* For details about the media guide hole, refer to P.2-7 "About the media guide hole".

About FR ORIGINS

Printing origin	FRONT-side area	Right front side of the FRONT-side area
REAR-side area		Left rear side of the REAR-side area
Media setting	FRONT-side area	Set a media using the media guide hole located in the right front side of the FRONT-side area.
position REAR-side area		Set a media using the media guide hole located in the left rear side of the REAR-side area.

** For details about the media guide hole, refer to P.2-7 "About the media guide hole".

Toggle print function OFF	Toggle print function ON	
	FF ORIGINS	FR ORIGINS
A	A A D	
Table front side	Table front side	Table front side

OperatorPrinting origin

Enabling the toggle print function

To enable the toggle print function, set the toggle print from the FUNCTION menu. When the toggle print function is set to OFF, toggle printing is disabled. When the toggle print function is set to ON, toggle printing is enabled. When the toggle printing method is specified, toggle printing is enabled.

Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
Press To select [TOGGLE PRINT].	FUNCTION TOGGLE PRINT [ENT]
3 Press the <u>ENTER</u> key.	TOGGLE PRINT TOGGLE PRINT [ENT]
Press the ENTER key.	TOGGLE PRINT OFF [ENT]
 Press to select a set value. OFF : Disables the toggle print function. FF ORIGINS : Divides the area into two areas and enables the printing method is FF ORIGINS. FR ORIGINS : Divides the area into two areas and enables the printing method is FR ORIGINS. 	
 Press the ENTER key. When the settings are not changed, proceed to step 9. 	

• When any set value is changed, proceed to step 8.

TOGGLE PRINT ON	[ENT]
CLEAR ORIGIN	SETUP
NO <	> YES



Press (•) to select whether to clear the origin setup.

NO: The printing origin and thickness of the media are set as shown in the table below.

Toggle print function	Printing origin	Media thickness
OFF	The value set for the FRONT side is set.	
"FF ORIGINS"/"FR ORIGINS"	Both for the FRONT side and REAR side, the current values are set.	



 Before starting printing, check the print position and media thickness both in the FRONTside area/REAR-side area.

YES: The printing origin and thickness of the media are set as shown in the table below.

Toggle print function	Printing origin	Media thickness
OFF	Cleared.	The value set for the FRONT side is set.
"FF ORIGINS"/"FR ORIGINS"	The values set for the FRONT side and REAR side are both cleared.	Both for the FRONT side and REAR side, the current values are set.



• Before starting printing, check the print position and media thickness both in the FRONTside area/REAR-side area.

8

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

Deciding the setting procedure for the settings related to FRONT/REAR printing area

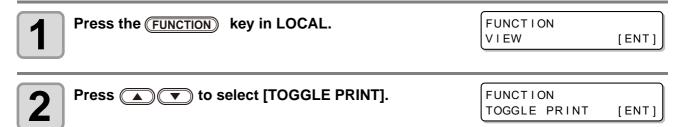
Two types of setting procedures are available.

INDIVIDUAL	The settings for each area are set individually.	
COMMON	When the settings for one area are set, the same values are applied to the other area.	

- When the same data is printed using the same media for FRONT/REAR, setting to "COMMON" simplifies the setting procedure for the settings related to the printing area.
- Setting to "INDIVIDUAL" enables printing to different media for FRONT/REAR respectively.

If set to COMMON, both PEAR/FRONT values will be updated when the following settings are changed.

- Print origin
- Media thickness

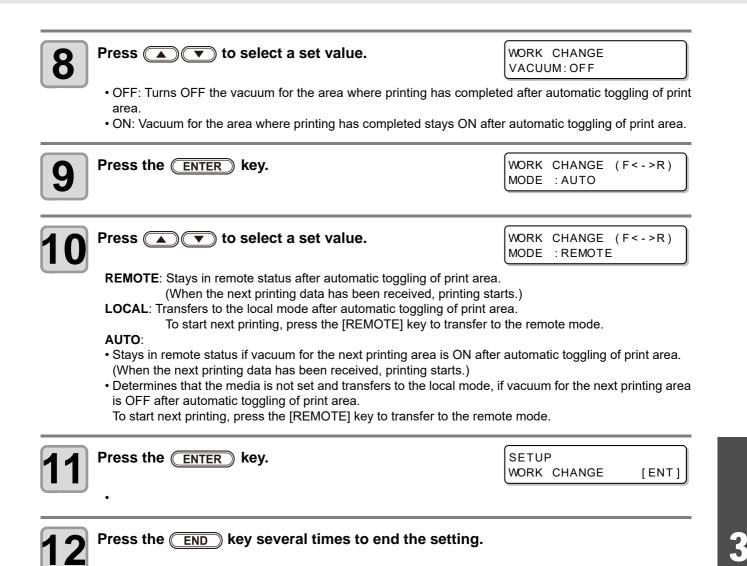


3 Press the ENTER key.	TOGGLE PRINT TOGGLE PRINT [ENT]
Press To select [[F]/[R] SETUP].	TOGGLE PRINT [F]/[R] SETUP [ENT]
5 Press the ENTER key.	[F]/[R] SETUP :INDIVIDUAL [ENT]
6 Press • to select a set value.	[F]/[R] SETUP :COMMON
Press the ENTER key.	TOGGLE PRINT [F]/[R] SETUP [ENT]
8 Press the <u>END</u> key several times to end the setting.	

Setting automatic area toggling for toggle printing

Set whether to toggle the printing area automatically after online drawing. For details about setting Work Change while the toggle print function is set to OFF, refer to P.3-35 "Setting Work Change".

Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
Press To select [SETUP].	FUNCTION SETUP [ENT]
3 Press the ENTER key.	SETUP DROP.POScorrect[ENT]
Press (To select [WORK CHANGE].	SETUP WORK CHANGE [ENT]
5 Press the ENTER key.	WORK CHANGE : OFF [ENT]
 Press to select a set value. OFF: Does not toggle the printing area after online drawing. (When received, it will be overprinted.) ON: After online drawing, the Y-bar is retracted, and the printing FRONT-side area, the printing area is toggled to the REAR-side side area, the printing area is toggled to the FRONT-side area. HOST: The printing area is toggled according to the set value specified in For the specifying method with the RIP software, refer to the operation. • The Y-bar is retracted to the machine center. • For both ON/HOST, if the area is specified in RIP, printing for the specified area. 	area is toggled. After printing the e area. After printing the REAR- RIP software. ation manual of the RIP software.
 Press the ENTER key. When set to "OFF", proceed to step 12. When set to "ON"/"HOST", proceed to step 8. 	SET UP WORK CHANGE [ENT] WORK CHANGE VACUUM: OFF



How to check printing area while toggle printing is enabled

When the toggle printing method is "FF ORIGINS", you can check the printing area from the local screen. You can check the printing area from the local screen.

When [F] is displayed, printing is performed for the REAR-side area.

When [R] is displayed, printing is performed for the REAR-side area.

Printing area			
For FRONT side	For REAR side		
<pre><local> R : 2.5mm [F]: 2.5mm</local></pre>	<pre><local> [R]: 2.5mm</local></pre>		

(Important!)

- When the toggle printing method is "FR ORIGINS", you cannot set the printing area with the printer. Set the printing area with RIP software.
- When the toggle printing method is "FR ORIGINS", the printing area is not displayed.

For FR ORIGINS				
<local></local>			2.5mm 2.5mm	

Changing the printing area

• When the toggle printing method is "FR ORIGINS", you cannot set the printing area with the printer. Set the printing area with RIP software.

When the toggle printing method is "FF ORIGINS", you can change the printing area.



(Important!)

• When printing data has been received, the printing area cannot be changed.

Changing the printing area without using [PRINT AREA]

You can change the printing area using the [FUNCTION] key in LOCAL in stead of using the [PRINT AREA] key.

Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
Press To select [TOGGLE PRINT].	FUNCTION TOGGLE PRINT [ENT]
3 Press the ENTER key.	TOGGLE PRINT TOGGLE PRINT [ENT]
Press To select [PRINT AREA].	TOGGLE PRINT PRINT AREA [ENT]
5 Press the ENTER key.	PRINT AREA : FRONT
6 Press (To select an area.	PRINT AREA :REAR
Press the ENTER key.	TOGGLE PRINT PRINT AREA [ENT]
8 Press the END key several times to end the setting	j .

Registering the thickness of the media

Register the thickness of the media manually

 For the setting procedure when the toggle print function is set to OFF, refer to P.3-4 "Register the thickness of the media manually". When [[F]/[R] SETUP] is set to "COMMON", the same setting procedure is used as with the case where the toggle print function is set to OFF. For details about the setting procedure, refer to P.3-4 "Register the thickness of the media manually". The set value is registered to both FRONT/REAR areas. 		
Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]	
Press (T) to select [HEAD HEIGHT].	FUNCTION HEAD HEIGHT [ENT]	
3 Press the <u>ENTER</u> key twice.	AREA : FRONT	
4 Press • • to select the area to set the value.	AREA : REAR	
5 Press the <u>ENTER</u> key.	MEDIA THICKNESS REAR= 1.0 mm	
6 Press • • to enter the thickness of loading media (0.0 to 50.0mm).	MEDIA THICKNESS REAR= 10.5 mm	
 Press the <u>ENTER</u> key. The screen returns to the area selection screen. To set the thickness of the media for the other area, repeat the proce 	AREA : REAR dure from step 4.	
8 Press the END key several times to end the setting.		

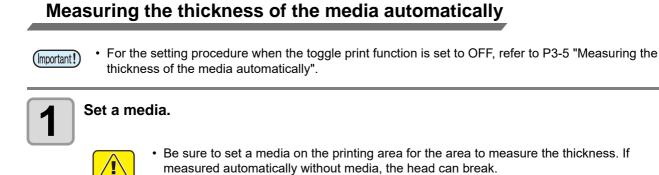
Adjust head gap with the [UP] or [DOWN] keys

(Important!)

• For the setting procedure when the toggle print function is set to OFF, refer to P.3-4 "Adjust head gap with the [UP] or [DOWN] keys".

Press the UP or DOWN key.	AREA : FRONT
Press To select the area to set the value.	AREA : REAR
3 Press the ENTER key.	<pre><rear> ORIGIN SETUP Z HEIGHT= 1.0mm</rear></pre>
Adjust with pressing the UP or DOWN key.	<pre><rear> ORIGIN SETUP Z HEIGHT= 10.5mm</rear></pre>
5 Press the <u>ENTER</u> key.	<rear> ORIGIN SETUP HEAD GAP =1.5mm</rear>

(mportant) • When [[F]/[R] SETUP] is set to "COMMON", the set value is registered to both FRONT/REAR areas.



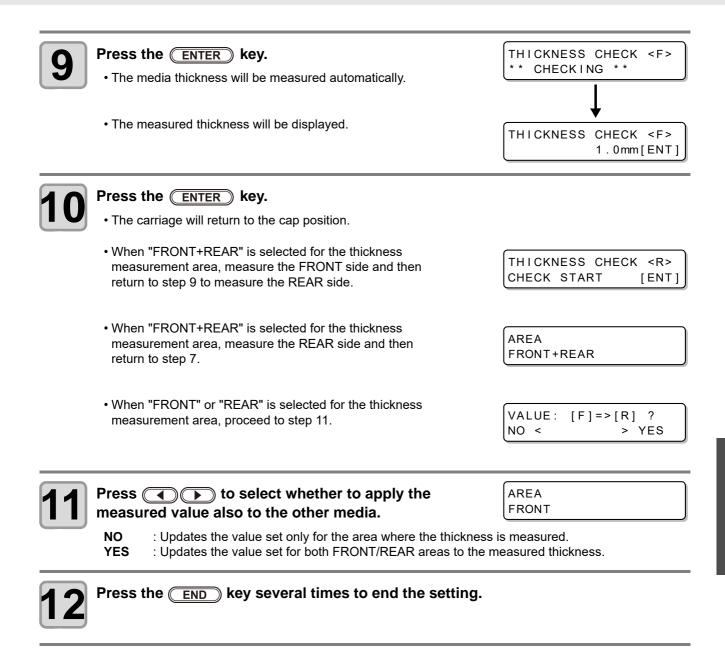
Caution

FUNCTION Press the (FUNCTION) key in LOCAL. 2 VIEW [ENT] Press () to select [HEAD HEIGHT]. FUNCTION 3 HEAD HEIGHT [ENT] HEAD HEIGHT Press the <u>ENTER</u> key. 4 MEDIA THICKNESS[ENT] Press **Press Press Press** HEAD HEIGHT 5 THICKNESS CHECK[ENT] Press the **ENTER** key. AREA 6 FRONT+REAR AREA Press **(v)** to select the area to set the value. : FRONT

FRONT : Measures the thickness of the media set in the FRONT-side area.
REAR : Measures the thickness of the media set in the REAR-side area.
FRONT : After measuring the thickness of the media set in the FRONT-side area, measures the

+REAR thickness of the media set in the REAR-side area.

8	 Press the ENTER key. In preparation for the measuring, the Y-bar will move up to the top 	THICKNESS CHECK <f> MOVING NOW</f>
	position.	Ļ
	 The carriage will move to the printing area in the thickness measurement area. 	THICKNESS CHECK <f> CHECK START [ENT]</f>



(Important!) • Difference of automatic measure is ±0.1mm.

Registering head gap value



- The same head gap value is set for both the FRONT side and REAR side. The specified head gap value is applied to both FRONT-side and REAR-side areas.
- For details about the setting procedure, refer to P.3-6 "Registering Head gap value".

3

Changing printing origin

Changing printing origin with JOG keys

(mportant!) • For the setting procedure when the toggle print function is set to OFF, refer to P.3-2 "Changing origin".

Press A TA In LOCAL.	
The origin mode starts.	
When () is pressed, proceed to step 4.	<pre><front> ORIGIN SETUP 500.0</front></pre>
When (I) is pressed, proceed to step 2.	AREA : FRONT
Press (To select the area to set the origin.	AREA : REAR
3 Press the ENTER key.	<rear> ORIGIN SETUP 500.0</rear>
4 Move the light pointer mark by pressing	<rear> ORIGIN SETUP 500.0 600.0</rear>
 A red light pointer mark [•] is projected on the table or the media. Move the light pointer mark to the position to set a new origin. 	Origin Origin position position (back and (right and forth) left)
• You cannot move the light pointer to the back of the table. To set the origin position further back of the table beyond the pointer, set the printing origin using the [SET ORIGIN] funct For details about how to set the printing origin using the [S P.3-21 "Changing printing origin with FUNCTION menu".	tion in the FUNCTION menu.
5 Press the <u>ENTER</u> key when the printing origin is determined.	
The origin is updated.	
 When [[F]/[R] SETUP] is set to "COMMON", the set value REAR areas. When [[F]/[R] SETUP] is set to "INDIVIDUAL", the set va selected area. 	

• The set value for the origin set with the JOG keys is cleared by cutting the power.

(Important!)

Changing printing origin with FUNCTION menu

(Important!)

For the setting procedure when the toggle print function is set to OFF, refer to P.3-2 "Changing origin".
When [[F]/[R] SETUP] is set to "COMMON", the same setting procedure is used as with the case where the toggle print function is set to OFF. For details about the setting procedure, refer to P.3-2 "Changing origin". The set value is registered to both FRONT/REAR areas.

Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
Press (To select [SET ORIGIN].	FUNCTION SET ORIGIN [ENT]
3 Press the ENTER key.	AREA : FRONT
Press (To select the area to set the origin.	AREA : REAR
5 Press the <u>ENTER</u> key.	[R]ORIGIN 0mm SELECT :X OFFSET
6 Press () to select [X OFFSET] or [Y OFFSET]. X OFFSET: Setting the origin position of X-axis. Y OFFSET: Setting the origin position of Y-axis.	[R]ORIGIN 0mm SELECT :Y OFFSET
7 Press the ENTER key.	[R]ORIGIN 2500mm Y OFFS: 0mm
Press (To input a value.	[R]ORIGIN 2000mm YOFFS: 500mm
9 Press the ENTER key.	[R]ORIGIN 500mm SELECT : Y OFFSET



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

(Important!)

• The set value is not cleared by cutting the power.

Starting toggle printing

(Important!)

• Before starting printing, check the settings.

	Item	Check
TOGGLE PRINT		Whether set to "FF ORIGINS" or "FR ORIGINS"
		Whether set to "ON" or "AUTO"
SETUP	WORK CHANGE	Whether VACUUM is set properly
		Whether MODE is set properly
HEAD HEIGHT	MEDIA THICKNESS	Whether set for both FRONT/REAR areas.
SET ORIGIN		Whether set for both FRONT/REAR areas.



Set a media.

• To print continuously, set media for both FORNT/REAR areas.



Press the VACUUM key to turn the vacuum ON.



Press the (PRINT AREA) key to set the printing area.



Press the **(REMOTE)** key in LOCAL.

• The screen changes to REMOTE, and data can be received from the PC.



Transmit data to be printed from the PC.



Start printing.



After completion of printing, transmit data to be printed to the other area.



Start printing for the other area.

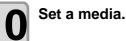


Take out the media for the area where printing has completed.

- When VACUUM in [WORK CHANGE] is set to OFF, the vacuum for the area where printing has completed is automatically turned to OFF.
- When VACUUM in [WORK CHANGE] is set to ON, vacuum stays ON. Press the foot switch for the area where printing has completed to turn OFF the vacuum.



• Do not turn OFF the vacuum using the VACUUM key. Doing so turns OFF the vacuum for the area where printing is in progress.





Press the foot switch to turn ON the vacuum.

• Press the foot switch for the area where the media is set to turn ON the vacuum.



 Do not press the VACUUM key. Doing so turns OFF the vacuum for the area where printing is in progress.



Repeat steps 7 to 11.

Print functions with printing area selection

When the toggle print function is set to ON, select a print area before starting the following prints:

- TEST PRINT (P.2-14)
- DROP.POScorrect (P.3-26)
- NOZZLE RECOVERY (P.4-23)
- LIST (P.3-49)
- Ink REPL.Report (P.3-49)

(Important!)

• Selectable printing areas are different depending on the specified toggle printing method. Check the area to print carefully before starting printing.

	FF ORIGINS		FR ORIGINS	
	FRONT REAR		FRONT	REAR
TEST PRINT	0	0	0	0
DROP. POS CORRECT	0	0	0	×
NOZZLE RECOVERY	0	0	0	×
LIST	0	0	0	×
Ink REPL. Report	0	0	0	×

O : Selectable

× : Not selectable

1	

Select a print function.

PRINT	
: FRON	Г

ſ	9

Press To select the area to print.

PRINT AREA :REAR

3	Press	th
$\mathbf{\nabla}$		

Press the ENTER key.

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



• About default "HOST" function

You can operate this by the setting value specified in RIP software. When you set to other than "HOST", it operates by that setting value, not by the instruction from RIP software.

Depending on RIP software, there are some functions that cannot be instructed by software. In such a case, it operates by the setting value of "When no instruction from RIP exists".

• For the specifying method with the RIP software, refer to the operation manual of the RIP software.

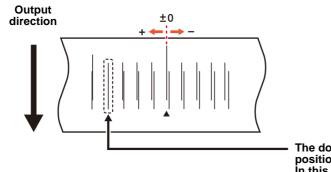
Function name		Set value	Default	When no instruction from RIP exists ^{*1}	Outline	
DROP. POS ((@P P.3-26)	CORREC	Т	-40.0 to 0 to 40.0	0.0		Used to adjust the dot position in go and return printing.
LOGICAL SE	EK((2) P.	3-28)	HOST/ ON/ OFF	HOST	ON	Sets the scan movable area during printing.
OVER PRINT	- (ᢙᢪ P.3-	-40)	HOST /1 to 9	HOST	1	Sets the number of layers in which ink is to be applied.
UV MODE ((2	₽ P.3-29))	HOST/ MANUAL	HOST	MANUAL	Sets the UV irradiation pattern during printing.
REFRESH (ﷺ P.3-40))	HOST / Lv.0 (Refresh interval long) to 3 (Refresh interval short)	HOST	Lv.3	Refreshes the print heads during printing.
			OFF/MAPS1/MAPS2	MAPS2		
MAPS	MAPS1	PRINT SPEED ADJUST	-50 to +50%	0%		Perform setting to reduce stripes
(@PP.3-30)		AUTO				between passes.
	MAPS2	MANUAL	PATTERN(1 to 5)/ Smoothing level (AUTO/ 5 to 100%)			
WORK CHANGE (@ P.3-35)		ON/ OFF/ HOST			Sets the operation when printing is completed.	
IONIZER (@P.3-37)		ON/ OFF			Sets the optional ionizer.	
AUTO	OFF, PA	\GE		PAGE		Sets the automatic cleaning
CLEANING	PAC	GE INTERVAL	10	3 page		operation for the head performed
(ᢙ P.3-38)		TYPE	NORMAL / SOFT / HARD	SOFT		before printing or during printing.
INTERVAL WIPING (@P.3-39)		ON / OFF	OFF		Sets the wiping operation during printing.	

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

Correct the ink drop position for bidirectional printing

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

Example of a Drop Position correct Printed Pattern



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

• When the toggle print function is enabled, select the area to perform test printing. For the selecting procedure, refer to "Print functions with printing area selection" in P.3-22 "Starting toggle printing".

Set a media on the machine and set a printing origin. (₽.2-5)
Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
B Press T to select the setup.	FUNCTION SETUP [ENT]
Press the ENTER key.	SETUP DROP.POScorrect[ENT]
5 Press the ENTER key.	DROP . POScorrect : Y600dpi
 Press to select the resolution. Setting value: Y600dpi / Y900dpi / Y1200dpi Perform correction for all resolutions. 	DROP . POScorrect : Y600dpi
7 Press the <u>ENTER</u> key.	DROP.POScorrect PRINT [ENT]
 Press the ENTER key to start pattern printing. • Test pattern is printed. (The printed patterns are called Pattern 1, Pattern 2, Pattern 3 in the order of printing.) 	** PRINTING ** PLEASE WAIT



Press To correct the dot position of Pattern 1~.

PATTERN1 =

0.0

- Corrected feeding rate: -40.0 to 40.0
- Check the test patterns. The position where an outward feeding line and a return feeding line become one straight line is the correction value.
- When the correction value in not between -40.0 and 40.0, adjust the height of the printing heads and then perform the operations in Step 2 and later.

Press the ENTER key.

- Displays the next pattern input.
- Repeat step7.



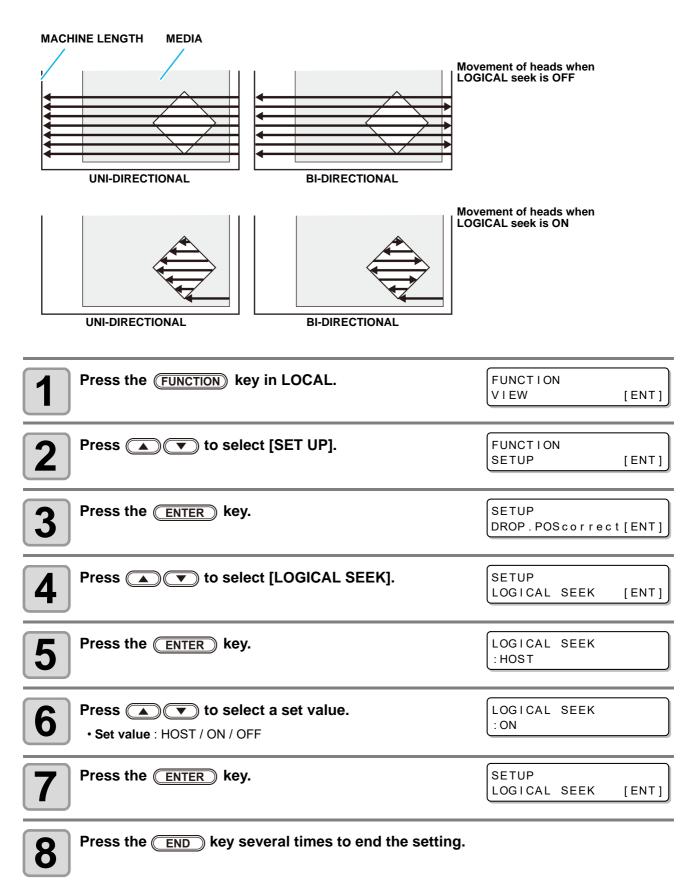
Press the **END** key several times to end the setting.

Setting Logical Seek

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

(Important!)

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



Setting UV mode

Set the emission pattern and illumination intensity for the UVLED.

1	Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
2	Press () To select [SET UP], and the press the ENTER key.	SETUP FEED COMP. [ENT]
3	Press (To select [UV MODE].	SETUP UV MODE [ENT]
4	Press the ENTER key.	UV MODE : HOST
5	 Press to select a set value. HOST : Applies UV with the emission pattern and illumination intensity set in the application. MANUAL : Applies UV with the pattern and illumination intensity that you set. 	UV MODE : MANUAL
6	 Press the ENTER key. When you selected "HOST" in step5, go to step 7. When you selected 	d "MANUAL", go to step 8.
7	Press (To adjust the intensity (LIGHT), then press the ENTER key.	UV MODE LIGHT ADJUST : 0%
8	Press To select the ink type to be set, then press the ENTER key. • Set value : Color/ White/ Clear Ink	UV MODE : Color
9	Press The To select the scan direction, then press the ENTER key. • Set value : Bi / Uni	UV MODE : B i
10	 Press to select the pattern to be printed, then press the ENTER key. Set value : PATTERN 1, 2 ~ / NOPRINT If you select "NOPRINT", no printing will be done when print data is se carried out. 	UV MODE : PATTERN 1 ent - only UV lamp operation will be
11	Press to select the emission level, then press the ENTER key. • Set value : LEVEL 0 to 15 (The higher this value is, the greater the in	UV MODE LEVEL : 10
10	Press the <u>END</u> key several times to end the setting.	

what is the MAPS Function?

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. With the JFX200, you can use both the MAPS1 function and the MAPS2 function.



- With MAPS1, the printing speed can be adjusted, but depending on the image to be printed, there may be color changes. With MAPS2, both feeding stripes and color changes can be reduced, but speed cannot be adjusted. Choose the function based on the image to be printed.
- MAPS1 effect differs depending on the set value of the printing speed. Use it after checking effect in advance.
- When you speed up the printing speed, it takes shorter time to print. However, MAPS1 effect becomes weak.
- When you slow down the printing speed, it takes longer time to print. However, MAPS1 effect becomes strong and feeding stripes become less visible.
- Enabling the MAPS function, slight color change may be found compared to when the MAPS function disable. Use it after checking effect in advance.
- MAPS may not be effective depending on image to be printed. Use it after checking effect in advance.

Setting MAPS1 Function

Press the FUNCTION key in LOCAL.	FUNCTION SETUP [ENT]
Press the ENTER key.	SETUP DROP.POScorrect[ENT]
3 Press • • to select [MAPS].	SETUP MAPS [ENT]
Press the ENTER key.	MAPS : OFF
 Fress to select MAPS1. Set Value : MAPS1, MAPS2, OFF 	MAPS : MAPS 1
 Press the ENTER key. If you selected MAPS2 or OFF in step 5, proceed to step 8. 	PRINT SPEED ADJUST = 0%
 Press to change print speed. • Set Value:-50 to +50% • When you change the speed, nozzle recovery effect ca after checking. 	PRINT SPEED ADJUST = 10%

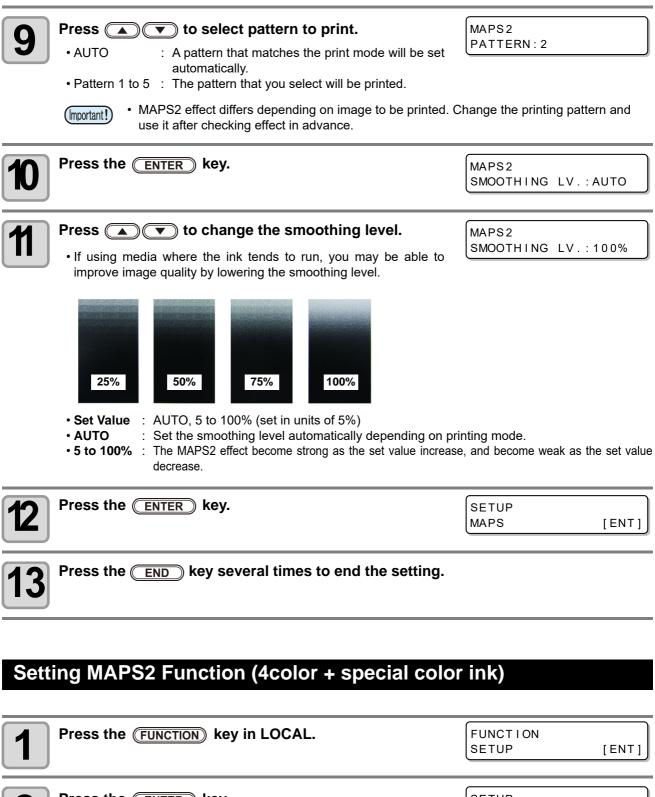
8	Press the ENTER key.	SETUP MAPS	[ENT]



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

Setting MAPS2 Function (4 color)

1	Press the FUNCTION key in LOCAL.	FUNCTION SETUP [ENT]
2	Press the ENTER key.	SETUP DROP.POScorrect[ENT]
3	Press (To select [MAPS].	SETUP MAPS [ENT]
4	Press the ENTER key.	MAPS : OFF
5	 Press to select MAPS2. • Set Value : MAPS1, MAPS2, OFF 	MAPS : MAPS 2
6	 Press the ENTER key. If you selected OFF in step 5, proceed to step 12. 	MAPS 2 : AUTO
7	 Press to select "AUTO" or "MANUAL". • AUTO : Set the print pattern and smoothing level to the recommended value automatically depending on printing mode. • MANUAL : You can adjust the set value. If feeding stripes and color change is not improved by "AL print pattern and smoothing level by "MANUAL" setting. 	MAPS2 : AUTO
8	 Press the ENTER key. When selecting the "AUTO" in the Step 7, proceed to the step 12. When selecting the "MANUAL" in the Step 7, proceed to the step 9. 	MAPS2 PATTERN: 1





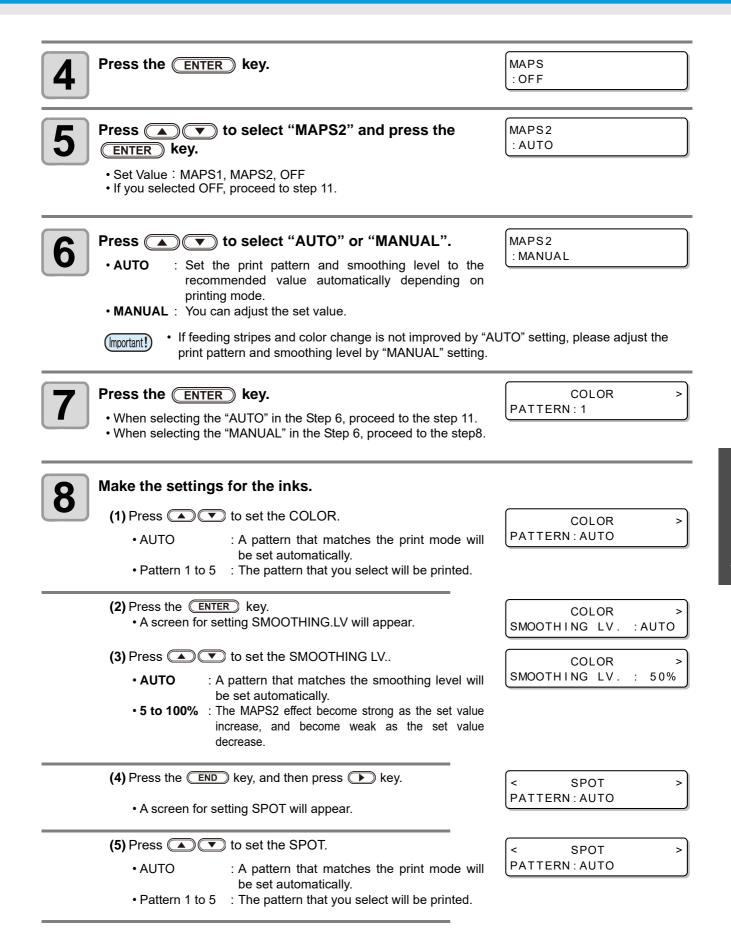
Press the ENTER key.

Press () v to select [MAPS].

SETUP DROP.POScorrect[ENT]



SETUP	
MAPS	[ENT]



3

 (6) Press the <u>ENTER</u> key. • A screen for setting SMOOTHING.LV will appear. 	< SPOT > SMOOTHING LV. : AUTO
(7) Press (To set the SMOOTHING LV	< SPOT >
 • AUTO : A pattern that matches the smoothing level will be set automatically. • 5 to 100% : The MAPS2 effect become strong as the set value 	SMOOTHING LV. : 50%
increase, and become weak as the set value decrease.	
 (8) Press the END key, and then press be key. A screen for setting CLEAR will appear. 	< CLEAR PATTERN : AUTO
(9) Press (To set the CLEAR.	< CLEAR
• AUTO : A pattern that matches the print mode will be set automatically.	PATTERN : AUTO
• Pattern 1 to 5 : The pattern that you select will be printed. (10)Press the ENTER key.	
• A screen for setting TYPE and LV. will appear.	< CLEAR TYPE/ LV.:AUTO
(11)Press (Type and LV	< CLEAR
 TYPE1 10 to 100% : Set a value that matches the print mode. TYPE2 10 to 100% : Set a value that matches the print mode. 	TYPE/ LV.:AUTO
• MAPS2 effect differs depending on image to be printed. Use it after checking effect in advance.	Change the printing pattern and
9 Press the ENTER key.	SETUP MAPS [ENT]
Press the <u>END</u> key several times to end the setting.	

10

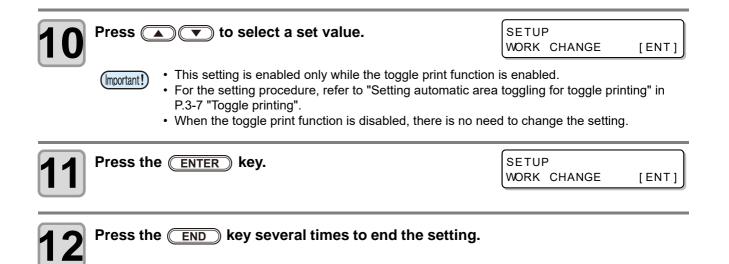
Setting Work Change



• When the toggle print function is enabled, refer to "Setting automatic area toggling for toggle printing" in P.3-22 "Starting toggle printing".

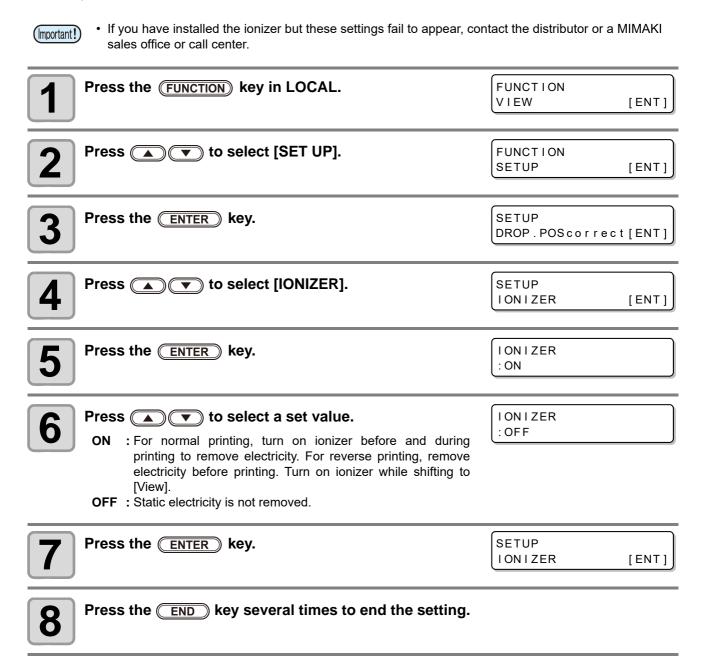
Set whether to return to the local mode or keep the remote mode after online drawing.

Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]	
Press To select [SET UP].	FUNCTION SETUP [ENT]	
3 Press the ENTER key.	SETUP DROP.POScorrect[ENT]	
Press (To select [WORK CHANGE].	SETUP WORK CHANGE [ENT]	
5 Press the ENTER key.	WORK CHANGE : OF F	
 Press to select a set value. OFF : Stays in remote status after online printing. (When the next printing data has been received, it will be overprinted.) ON : After online drawing, the Y bar is retracted, and return to the local. HOST : If you specify the "PRINT COUNT" to two or more in the RasterLink6 screen, Y bar is retracted for each print end and return to the local. • Position Y bar is retracted will be the position that set in P.2-18 "Setting the view position". 		
7 Press the ENTER key.	WORK CHANGE VACUUM: OFF [ENT]	
Press rest to select a set value. OFF : Turns OFF the vacuum automatically after online drawing. ON : Vacuum stays ON after online drawing. Important! • This setting is enabled while Work Change is ON.	WORK CHANGE VACUUM:ON [ENT]	
9 Press the ENTER key.	WORK CHANGE(F<->R) MODE:AUTO [ENT]	



Setting Ionizer

Set the operation when the ionizer is installed.



Setting Auto Cleaning

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

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

Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
Press To select [SET UP].	FUNCTION SETUP [ENT]
3 Press the ENTER key.	SETUP DROP.POScorrect[ENT]
Press To select [AUTO CLEANING].	SETUP AUTO CLEANING [ENT]
5 Press the <u>ENTER</u> key.	AUTO CLEANING :OFF
 Press to select the type of auto cleaning. When you select auto cleaning "PAGE", after set number of printings has been completed, head cleaning will be performed automatically. If you do not set auto cleaning, first select "OFF" and then proceed to the Step 11. 	AUTO CLEANING : PAGE
7 Press the ENTER key.	
 Press to set the cleaning interval. Setting value : 1 to 1000 page 	INTERVAL = 10page
9 Press the ENTER key.	TYPE : SOFT
Press To set the cleaning type. Set Value : NORMAL/ SOFT/HARD	TYPE : NORMAL
Press the ENTER key.	
12 Press the <u>END</u> key several times to end the setting.	

(Important!)

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

Setting nozzle face cleaning time

Cleaning of the head nozzle face is performed automatically before printing begins in order to remove any ink adhering to the nozzle face.

1	Press the (FUNCTION) key in LOCAL.	FUNCTION VIEW [ENT]
2	Press (The select [SET UP].	FUNCTION SETUP [ENT]
3	Press the ENTER key.	SETUP DROP.POScorrect[ENT]
4	Press (The select [INTERVAL WIPING].	SETUP INTERVAL WIPING[ENT]
5	Press the ENTER key.	INTERVAL WIPING :OFF
6	 Press to set intervals. When you select "PAGE" in [INTERVAL WIPING], once the set number of prints is complete, the head nozzle is cleaned automatically before the next print starts. When you select "TIME" in [INTERVAL WIPING], the head nozzle is cleaned automatically once the print time exceeds the set time. If you do not want to set [INTERVAL WIPING], select "OFF" and proceed to Step 9. 	INTERVAL WIPING : PAGE
7	Press the ENTER key.	SETUP INTERVAL WIPING[ENT]
8	Press the END key several times to end the setting. Set value (Page): 1 to 100 pages Set value (Time): 3 to 50 minutes	INTERVAL = 1page
	Press the <u>ENTER</u> key.	

9

Other Settings

Change the settings according to the types of use.

Press the (FUNCTION key in LOCAL.		FUNCTION VIEW	[ENT]
2 Press A	to select [SET UP].		FUNCTION SETUP	[ENT]
3 Press the (ENTER key.		SETUP DROP.POScorr	ect[ENT]
–	To select an item for settin ferring to P.3-25 "List of Functions".	g.		
5 Press the (ENTER key.			
	ferring to P.3-25 "List of Functions".			
7 Press the (ENTER key.			
8 Press the (END key several times to end	the setting.		
(Important!) • The set va	alue is retained even when the power is tu	Irned "OFF".		

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

lte	m	Set value	Default	Meaning
AUTO Power-off (@P.3-41)		NONE/ 10 ~ 600min	30min	When no operation has been performed for the set time, the power supply is automatically turned "OFF".
TIME SET (22)	P.3-42)	+4h ~ -20h	Japan time	Time difference is corrected.
UNIT TEMP.		°C (Centigrade) /°F (Fahrenheit)	°C	A unit for displaying temperature is set.
(ੴ P.3-43)	LENGTH	mm / inch	mm	A unit for displaying length and area is set.
KEY BUZZER (@P.3-44)		OFF / ON	ON	A buzzer sound when keys are pressed is set.
LANGUAGE ((ﷺ P.3-45)		English ニホンゴ Deutsch Français Español Italiano Português	English	Displayed language is changed.
PRINT MODE (@P.3-46)		Quality / Speed	Quality	Use this setting when you want to prioritize the printing speed or when an error occurred on the linear encoder.
RESET((2) P.3-47)				All setting values are returned to the status default.

Setting a AUTO Power-off

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

Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
Press (To select [MACHINE SETUP].	FUNCTION MACHINE SETUP [ENT]
3 Press the ENTER key twice.	AUTO Power-off = 30min
Press To set time to turn OFF the power supply. • Set Value : none, 10 to 600min	AUTO Power-off = 60min
5 Press the ENTER key.	MACHINE SETUP AUTO Power-off [ENT]
6 Press the <u>END</u> key several times to end the setting.	

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

3

Setting Time

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

Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
Press (To select [MACHINE SETUP].	FUNCTION MACHINE SETUP [ENT]
3 Press the ENTER key.	MACHINE SETUP AUTO Power-off [ENT]
Press To select [TIME SET].	MACHINE SETUP TIME SET [ENT]
5 Press the ENTER key.	TIME SET 2012.10.05 21:30:00
6 Press A T to enter time. Year/Month/Day/Time selecting : by the the keys. Year/Month/Day/Time inputting : by the the keys.	
Press the ENTER key. • The entered date is displayed.	TIME SET 2012.10.05 15:30:00
8 Press the <u>END</u> key several times to end the setting.	



• -20 hours to +4 hours can be set.

Setting Units

Units used by this machine are set.

1 Pre	ess the (FUNCTION) key in LOCAL.	FUNCTION VIEW	[ENT]
2 Pre	ess 🔺 💌 to select [MACHINE SETUP].	FUNCTION MACHINE SETUP	[ENT]
3 Pre	ess the <u>ENTER</u> key.	MACHINE SETUP AUTO Power-off	[ENT]
4 Pre	ess 🔺 💌 to select [UNIT].	MACHINE SETUP UNIT	[ENT]
5 Pre	ess the <u>ENTER</u> key.	TEMP . : ° C	
	ess () to select a unit of the temperature. Set value : °C / °F		
7 Pre	ess the <u>ENTER</u> key.	LENGTH :mm	
	ess Test to select a unit of the length. Set value : mm / inch		
9 Pre	ess the <u>ENTER</u> key.	MACHINE SETUP UNIT	[ENT]
10 Pre	ess the <u>END</u> key several times to end the setting.		

Setting a KEY BUZZER

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

Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
Press To select [MACHINE SETUP].	FUNCTION MACHINE SETUP [ENT]
3 Press the ENTER key.	MACHINE SETUP AUTO Power-off [ENT]
Press To select [KEY BUZZER].	MACHINE SETUP KEY BUZZER [ENT]
5 Press the ENTER key.	KEY BUZZER :ON
6 Press To select ON/OFF.	KEY BUZZER :OFF
7 Press the ENTER key.	MACHINE SETUP KEY BUZZER [ENT]
8 Press the <u>END</u> key several times to end the setting.	

掌

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

Setting a LANGUAGE

You can change the displayed language.

Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
Press To select [MACHINE SETUP].	FUNCTION MACHINE SETUP [ENT]
3 Press the ENTER key.	MACHINE SETUP AUTO Power-off [ENT]
Press To select [LANGUAGE].	MACHINE SETUP LANGUAGE [ENT]
5 Press the ENTER key.	LANGUAGE : English
6 Press (本) (マ) to select language. ・ Set Value : ニホンゴ / English / Deutsch / Français / Español / Italiano / Português	MEDIA SIDUAL : ニホンコ [*]
Press the ENTER key.	MACHINE SETUP LANGUAGE [ENT]
8 Press the <u>END</u> key several times to end the setting.	

Setting Print Mode

Use this setting when you want to prioritize the printing speed or when an error occurred on the linear encoder.

Press the FUNCTION key in LOCAL.	FUNCTION VIEW [ENT]
Press To select [MACHINE SETUP].	FUNCTION MACHINE SETUP [ENT]
3 Press the ENTER key.	MACHINE SETUP AUTO Power-off [ENT]
Press (To select [PRINT MODE].	MACHINE SETUP PRINT MODE [ENT]
5 Press the ENTER key.	PRINT MODE PRIORITY:QUALITY
6 Press (To select [QUALITY]/[SPEED].	PRINT MODE PRIORITY:SPEED
7 Press the ENTER key.	PRINT MODE CHANGE.OK? [ENT]
8 Press the <u>END</u> key. Origin searching operation is performed.	PLEASE WAIT SEARCHING ORIGIN



- This setting is not initialized by the "RESET" function.

Initializing the Settings

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

Press the (FUNCTION) key in LOCAL.	FUNCTION VIEW [ENT]
Press To select [MACHINE SETUP].	FUNCTION MACHINE SETUP [ENT]
3 Press the ENTER key.	MACHINE SETUP AUTO Power-off [ENT]
Press (To select [RESET].	MACHINE SETUP RESET [ENT]
5 Press the ENTER key.	RSET ALL SETTING OK? [ENT]
 Press the ENTER key. The already configured settings are initialized. 	RESET EXECUTE [ENT]
7 Press the <u>END</u> key several times to end the setting.	

Confirming Machine Information

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

Item		Description
	WIPING	
	PRINT LENGTH	
USAGE	PRINT AREA	The information of this machine can be confirmed.
USAGE	USE TIME	
	WASTE INK TANK	
	UV LAMP	
VERSION		This displays the firmware version of the machine.

Check the using status of the machine

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

Press the FUNC	TION) key in LOCAL.		FUNCTION VIEW	[ENT]
2 Press A) to select [INFORMAT	ION].	FUNCTION INFORMATION	[ENT]
3 Press the ENTE	R key.		INFORMATION USAGE	[ENT]
Press the ENTE The wiping Inform Every time you pro WIPING		nine information below a	WI P I NG = 0 re displayed in series.	
Displays wiping information.	WIPING = 0	Displays printed length up to now.	PRINT LENGTH = 0m	
PRINT AREA		WASTE INK TAN	K	
Displays printed area up to now.	PRINT AREA = 0m ²	Displays how full the waste ink tank is	WASTE INK TANK = 0%	
UV LAMP				
Displays the hours UV lamp 1 or 2 has been used.				

Check the machine version information

Press the FUNCTION key in LOCAL.	FUNCTION	[ENT]
Press () To select [INFORMATION].	FUNCTION INFORMATION	[ENT]
3 Press the ENTER key.	INFORMATION USAGE	[ENT]
Press To select [VERSION].	INFORMATION VERSION	[ENT]
 Press the ENTER key. When [ERROR HISTORY] is selected, the error history Information is displayed. When [VERSION] is selected, the version Information is displayed. 		V1.00 V1.90

When [List] is selected, the setting contents of the machine are printed.
When [Ink REPL. Report] is selected, ink history of this machine are printed.

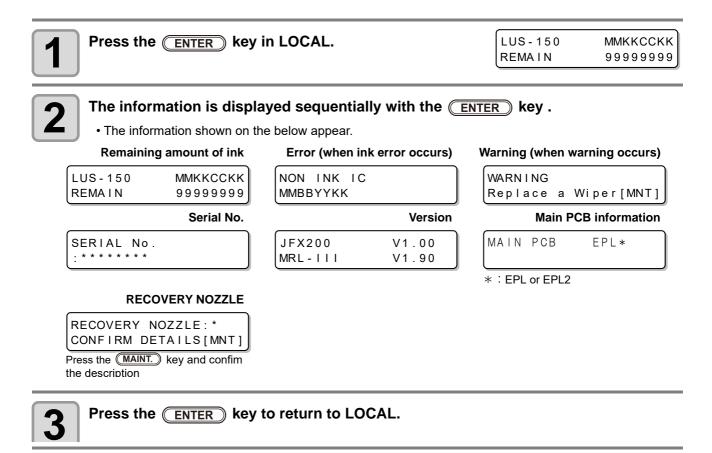
About Displayed Information

This section describes how to read displayed information.

ERROR HISTORY ^{*1}				
Displaying the occurrence date	[00000] 2015/07/19 22:13:00	VERSION Displaying the version information such as	JFX200-2531 MRL-111	V1.00 V1.80
Displaying the contents of error	ERROR 12a HDC SPEED	F/W or the like.		

*1. Supported from the firmware ver.1.50

Displaying the Information of this machine



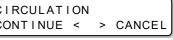
To stop the circulation operation and stirring operation during power is OFF

this machine starts in a regular basis and performs the circulation operation CIRCULATION

and stirring operation to prevent sedimentation of ink. (During operation

When white ink installed, even if the power supply of the device is turned OFF, During circulation operation

display the remaining time on the display screen.)	0:09:40
	During circulation operation
machine to a usable state, please press the END key. (Correspondence with firmware version 1.50 or later)	
interruption of operations. To continue the circulation and stirring action : Press ((return to the display of operation)	During circulation operation CIRCULATION CONTINUE < > CANCE During circulation operation AGITATION CONTINUE < > CANCE



Chapter 4 Maintenance

This chapter

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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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Replacing the waste ink tank before the w	
ink tank confirmation message is displaye	
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0	
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Donlooing the fluching filter before the ren	
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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 supplied protective glasses.



• Never disassemble the machine.Disassembling it can result in electric shock hazards or damage to the machine.

Before maintenance, be sure to turn off the power button, and unplug the power cable; otherwise, an unexpected accident may occur.



- Prevent moisture from entering the machine. Moisture inside the machine can cause electric shock hazards or damage to the machine.
- To ensure stable ink jetting, it is necessary for the machine to eject a small amount of ink (flushing) regularly when a printing (outputting) operation has not been performed for a long time.
- In case you do not use this machine for a long time, be sure unplug the power cable and remove the set media.
- · Make maintenance after the LED UV has been sufficiently cooled, or burn injury may occur.



- Do not use benzene, thinner, or any chemical agent containing an abrasive. Such materials can deteriorate or deform the surface of the cover.
- Do not apply a lubricant, etc. to any parts inside the machine. Doing so can cause printing failure.
- Be careful that the cleaning solution, ink, etc. not to stick to the cover because this may cause the surface of the cover to deteriorate or deform.

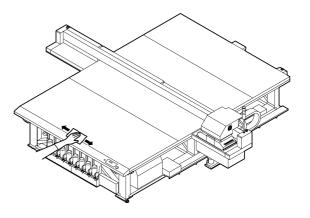
About Cleaning liquid

Use the cleaning liquid dedicated for the ink being used.

Type of Ink	Applicable maintenance washings
UV ink	Maintenance liquid (SPC-0568) Maintenance liquid kit (SPC-0569)

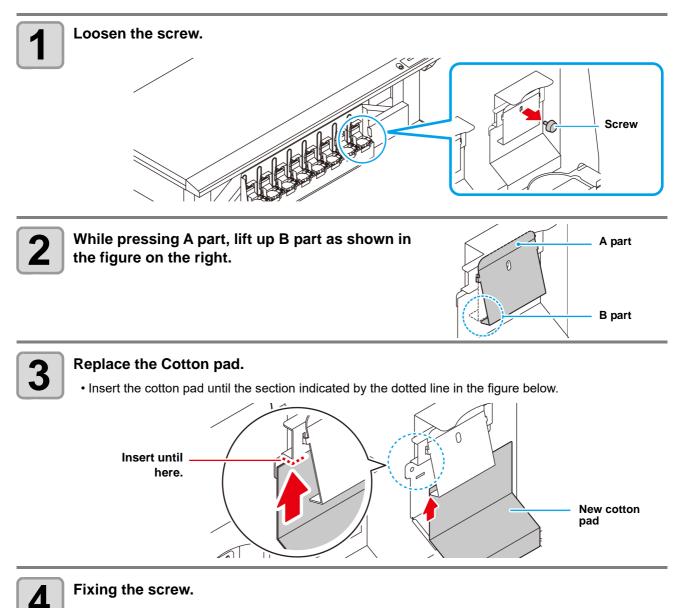
Maintenance of frame component

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. Clean dust on the table.



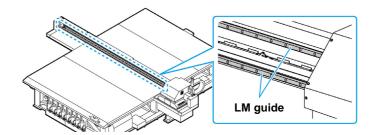
MBIS Maintenance

There is a cotton pad attached to the cap wiper section on the rear of the tank that is used to wipe off any ink adhering to the underside of the cap when replacing ink bottles of the MBIS. Periodically replace the cotton pad. (Recommended replacement period: Once every two weeks or once every fifth time bottles are replaced.)



Cleaning the LM guide

When the LM guide gets dirty, wipe the LM guide with soft cloth.



Maintaining the Capping Station

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

The ink cap and wiper function as follows.

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- 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 (@PP.2-15) has been performed, use a Cleaning liquid 03 maintenance kit and clean stick.

Tools required for	Maintenance liquid (SPC-0568)		
Maintenance	Clean stick (SPC-0527)	Gloves	• Goggles

- Be sure to wear the supplied goggles and gloves when maintaining the capping station. Otherwise, you may get ink in your eyes.
- Do not move the carriage out of the capping station by hand. When it is desirable to move the carriage, press the (MAINT.) key to execute the carriage-out. (@P.4-4Steps 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.

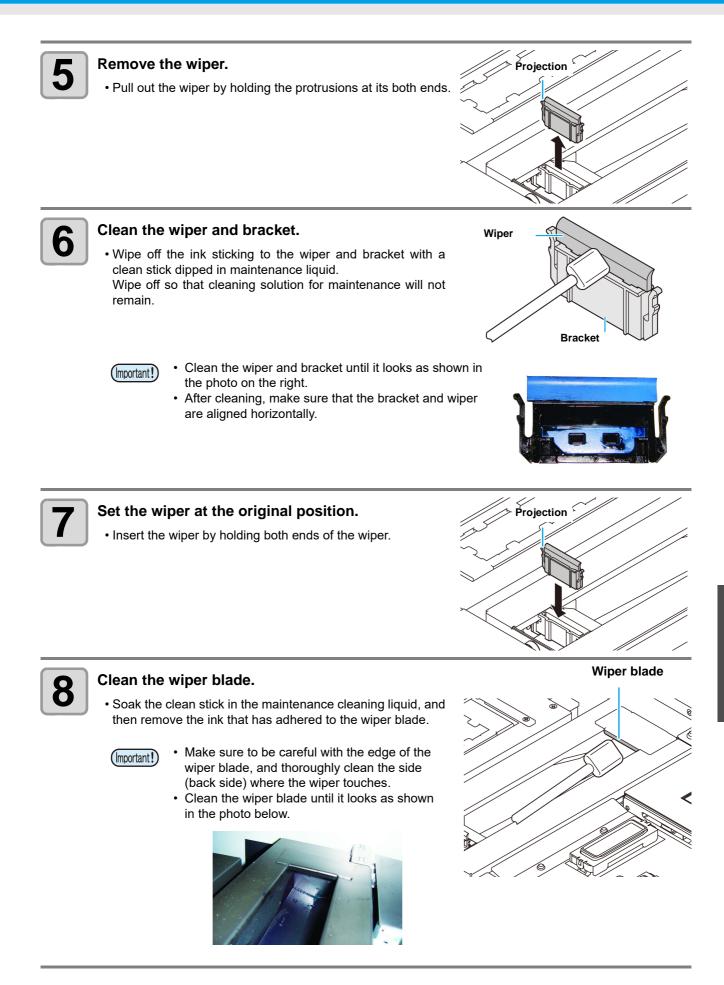
Cleaning the Wiper and Cap

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.

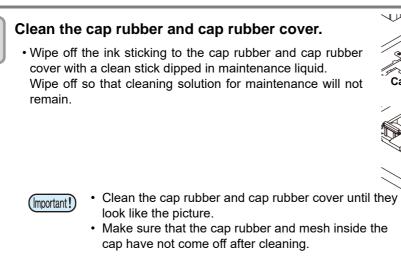
- Clean the wiper and the area around it about twice a week (it varies, depending on frequency in the use of the machine).
 - Replace the wiper with a new one when it is extremely dirty or bent. ((2) P.4-30)
 - When cleaning the wiper, be careful that lint from the clean stick does not get left on the wiper.Remaining lint may cause image quality to deteriorate.

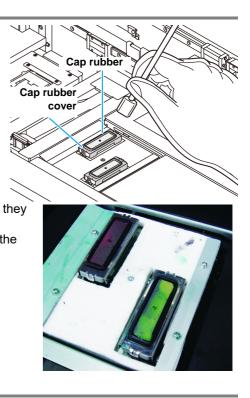
Press the MAINT. key in LOCAL.	CARRIAGE OUT
Press the ENTER key.	MOVE POSITION :STATION MAINT.
Press (To select [STATION MAINT.].	MOVE POSITION :STATION MAINT.
 Press the <u>ENTER</u> key. The carriage moves onto the table. 	

Carriage



4







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

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

Performing the station maintenance without MAINT. key

You can select station maintenance by using the (FUNCTION) key in the Local without pressing the (MAINT.) key.

Press the FUNCTION key in Local.



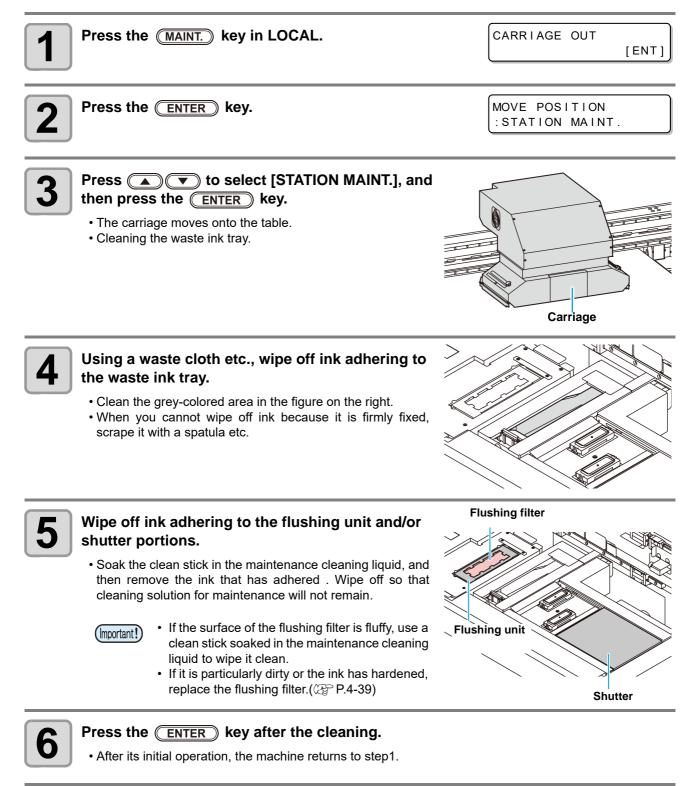
- Press the ENTER key twice.It becomes the same condition as the
 - (MAINT.) key is pressed from Local.

Cleaning the around station

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.



- Clean the station and the area around it about twice a week (it varies, depending on frequency in the use of the machine).
- If ink remaining in the waste ink tray gets cured due to UV light, ink discharged at flushing cannot be moved into the waste ink bottle. It is recommended to clean the waste ink tray frequently.



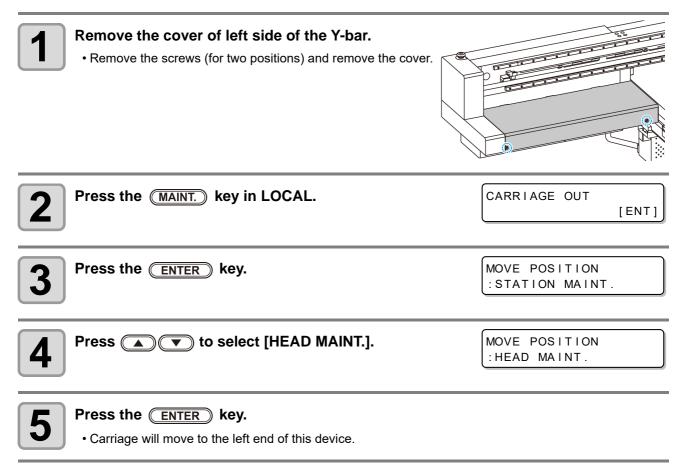
Cleaning the Head and the Area around It

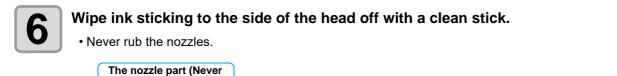
Because the head employs a very precise mechanism, due care needs to be taken when it is cleaned. Using a clean stick, etc., rub off gelatinous ink or dust that may stick to the lower part of the slider and the area around the head.In doing so, never rub the nozzles of the head.

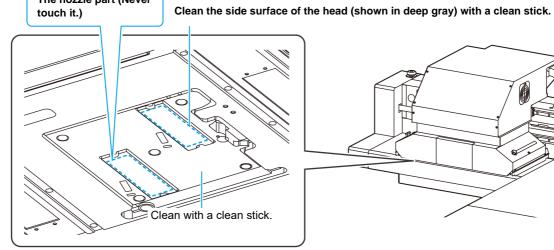
Tools required for cleaning	Clean stick (SPC-0527)	• Gloves	• Goggles

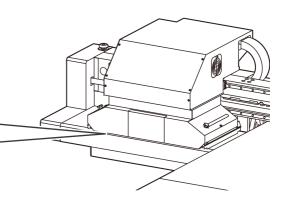


- Be sure to wear the attached goggles and gloves when cleaning the area around the head. Otherwise, you may get ink in your eyes.
- If you get the ink on your skin or in your eyes, wash it away with plenty of water immediately.
- Clean the bottom of carriage every day so that it will not get dirt from inks or dusts. If you leave it dirty, dust and dry ink may be rubbed against the nozzle at wiping operation when performing head cleaning.
- When you clean the carriage bottom surface, fully be careful not to rub the nozzle surface.









(Important!)

- Clean the side of the head and the carriage bottom until they look like the picture.
 - · If the nozzles have the streaks from the cap rubber, clean the nozzles as well.
 - When you leave during maintenance (or cleaning), please make sure to complete the cleaning by pressing **ENTER** key. Without completing the cleaning, the nozzle part is left uncovered and then outside light makes the ink cure, which causes nozzle clogging or the like.





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

HEAD	MAINTENAN	ICE
COMPL	ETED	[ENT]

4

Washing the Ink Discharge Passage (DISWAY WASH)

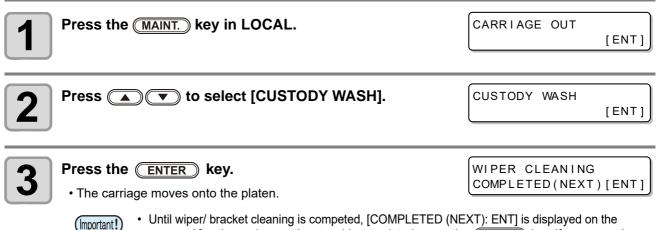
Wash the ink discharge passage regularly to prevent the head nozzles from clogging due to ink coagulation inside the passage.

Press the MAINT. key in LOCAL.	CARRIAGE OUT
Press To select [DISWAY WASH].	DISWAY WASH [ENT]
 Press the ENTER key. The carriage moves onto the platen. Dry suction operation is performed repeatedly until the washing work is completed. 	DISWAY WASH COMPLETED(NEXT)[ENT]
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.	
 Fress the ENTER key. After the idle absorbing operation has been performed for 30 seconds, the screen returns to step2. 	DISWAY WASH PLEASE WAIT

When the Machine Is Not Used for a Long Time (CUSTODY WASH)

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

	Is [INK END] displayed?
Check the items on	 The ink is absorbed when the nozzles are washed.
the right beforehand.	At this time, if the state of "INK END" is detected, the nozzle washing operation cannot start.
	 Replace the ink bottle with another from which the state of "INK END" is not detected.

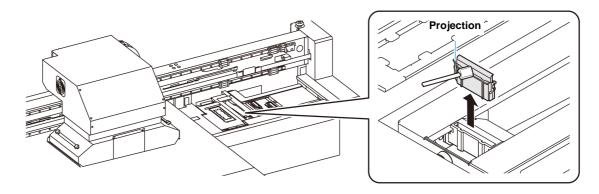


• Until wiper/ bracket cleaning is competed, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the step 4 is completed, press the <u>ENTER</u> key. If you press the <u>ENTER</u> key before cleaning is completed, the machine moves to the next washing procedure.



Clean the wiper and the bracket.

- (1) Pull out it by holding projections at both ends of the wiper.
- (2) Clean the wiper and bracket with a clean stick dipped in cleaning solution for maintenance . Wipe off so that cleaning solution for maintenance will not remain.
- (3) Insert it in the original position by holding the projections at both ends of the wiper.





Press the ENTER key.

CAP CLEANING COMPLETED(NEXT)[ENT]

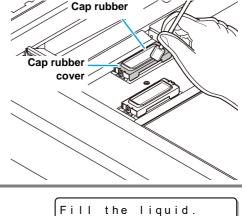


 Until wiper cleaning is competed, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the step 6 is completed, press the <u>ENTER</u> key. If you press the <u>ENTER</u> key before cleaning is completed, the machine moves to the next washing procedure.



Clean the cap rubber and cap rubber cover.

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



COMPLETED (NEXT) [ENT]

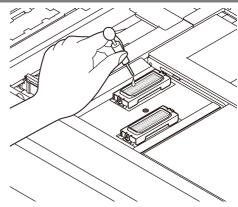


Until maintenance liquid is filled, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the Step 8 is completed, press the <u>ENTER</u> key. If you press the <u>ENTER</u> key before maintenance liquid is filled, the carriage returns to the original position.



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

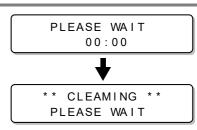
• Fill the cap with the cleaning solution just before the solution overflows from the cap.





Press the ENTER key.

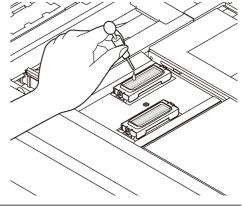
- The nozzles are washed.
- When the nozzles have been completely washed, the head moves.





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.



CUSTODY WASH PLEASE WAIT

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Press the ENTER key.

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

When Nozzle Clogging Cannot Be Solved

When nozzle clogging cannot be solved even after the head cleaning ((P.2-15) has been done, perform the following two functions:

HEAD FILLUP	• Fill the head with ink. (@P.4-14)
NOZZLE WASH	• Wash the head nozzle. (ﷺ P.4-15)
NOZZLE RECOVERY	 Alternative nozzles for printing, when nozzles missing can not be improved. (AP P.4-23)

Filling with ink from the sub tank to the head

1	 Select [HEAD FILLUP] of the maintenance menu. (1) Press the FUNCTION key in LOCAL. (2) Press (2) Press (2) Press (3) Press (4) Press the ENTER key. 	NTER) key.	
2	Press A V A b to select the head to be filled.	HEAD FILLUP MMKKCCYY HEAD FILLUP MMKK	
	 Head selection:by the keys. Select to fill or not to fill:by the keys. 	HEAD FILLUP	
3	 Press the ENTER key. Ink filling of the head starts. 	** FILLING PLEASE WAI	
	• When ink filling is completed, the screen on the right is displayed.	HEAD FILLUP END<	>RETRY
4	 Press to select "END". If you want to perform filling again, press and perform procedures from Step 2. 		
	Press the END key several times to end the setting.		

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Washing of Head nozzle

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

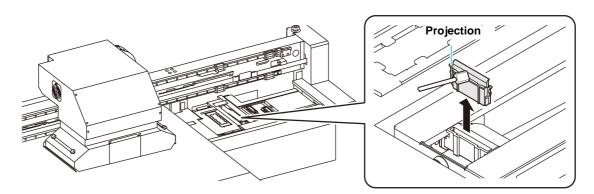
Check the items on the right beforehand.	 Is [INK END] displayed? The ink is absorbed when the nozzles are washed. At this time, if the state of "INK END" is detected, the nozzle washing operation cannot start. Replace the ink bottle with new one for which ink end has not been detected.
------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Press the MAINT. key in LOCAL.	CARRIAGE OUT [ENT]
Press (To select [NOZZLE WASH].	NOZZLE WASH [ENT]
B Press the ENTER key. • The carriage moves.	WIPER CLEANING COMPLETED(NEXT)[ENT]
• Until wiper cleaning is competed, [COMPLETED (NEX screen. After the work up to the step 4 is completed, pro the <u>ENTER</u> key before cleaning is completed, the ma procedure.	ess the ENTER key. If you press



Clean the wiper and the bracket.

- (1) Open the right maintenance cover then pull out it by holding projections at both ends of the wiper.
- (2) Clean the wiper and bracket with a clean stick dipped in cleaning solution for maintenance. (ML003-Z-K1) Wipe off so that cleaning solution for maintenance will not remain.
- (3) Insert it in the original position by holding the projections at both ends of the wiper.





Press the ENTER key.

CAP CLEANING COMPLETED(NEXT)[ENT]

• Until wiper cleaning is competed, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the step 6 is completed, press the <u>ENTER</u> key. If you press the <u>ENTER</u> key before cleaning is completed, the machine moves to the next washing procedure.



Clean the cap rubber and cap rubber cover.

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



(Important!)

Fill the liquid. COMPLETED(NEXT)[ENT]

Cap rubber

Cap rubber

cover

 Until maintenance liquid is filled, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the Step 8 is completed, press the <u>ENTER</u> key. If you press the <u>ENTER</u> key before maintenance liquid is filled, the carriage returns to the original position.

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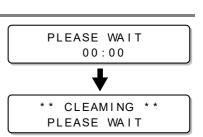
Fill up the cap with cleaning solution for maintenance, using a dropper.

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



Press the <u>ENTER</u> key.

- The cleaning solution filled in the cap is absorbed.
- The screen on the right is displayed while the cap is left in a cleaning solution
- It returns to the step2 after the duration.

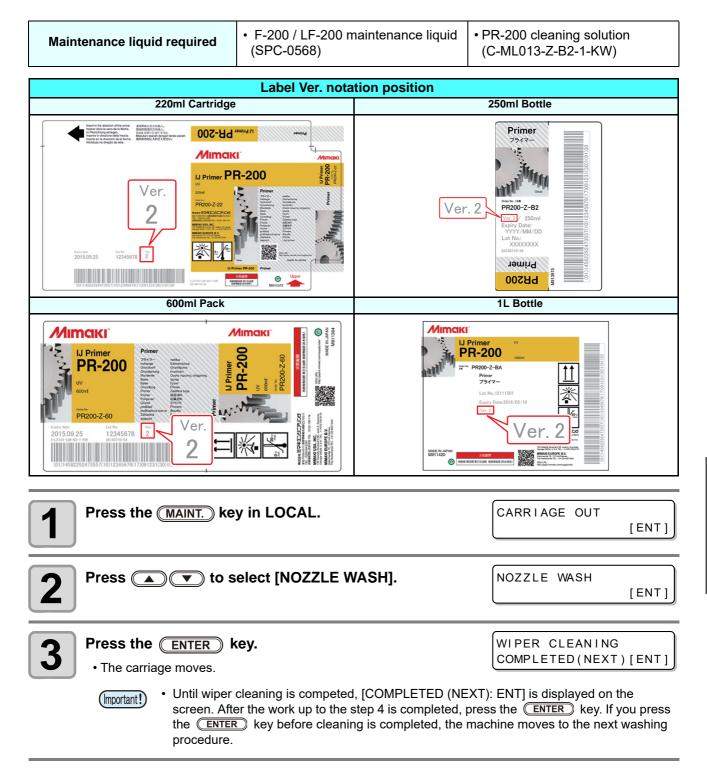


• When nozzle missing is not cleared even after this washing is carried out several times, contact the distributor in your region or our service office.

Washing of Head nozzle (When Using the PR-200 ink)

On models equipped with the PR-200, ink may clog the nozzle.

Please check the version on the label of the PR-200 ink cartridge, pack, or bottle, and clean the nozzle. Please clean the nozzle twice a week for Ver.2 and once a month for Ver.3.



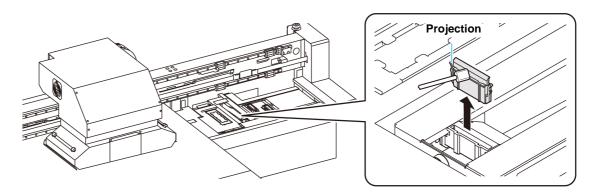


Clean the wiper and the bracket.

- (1) Open the right maintenance cover, hold the protrusions at both the ends of the wiper and pull it out.
- (2) Use a clean stick soaked in the F-200/LF-200 maintenance liquid (SPC-0568).
 - Wipe it off properly so that there is no residual F-200/LF-200 maintenance liquid.
- (3) Hold the wiper by the protrusions at both the ends and push it back to the original position.



 When cleaning the wiper, bracket, cap rubber, and cap rubber cover, be sure to use the F-200/LF-200 maintenance liquid, and do not use the PR-200 maintenance liquid (C-ML013-Z-B2-1-KW).





Press the **ENTER** key.

CAP CLEANING COMPLETED(NEXT)[ENT]

Cap rubber

Fill the liquid. COMPLETED(NEXT)[ENT]

Cap rubber

cover

Until wiper cleaning is competed, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the step 6 is completed, press the <u>ENTER</u> key. If you press the <u>ENTER</u> key before cleaning is completed, the machine moves to the next washing procedure.



Clean the cap rubber and cap rubber cover.

- Wipe off any ink on the cap rubber and the cap rubber cover using a clean stick soaked in the F-200/LF-200 maintenance liquid. Wipe it off properly so that there is no residual F-200/ LF-200 maintenance liquid.
 - At this time, the discharge passage is cleaned automatically.

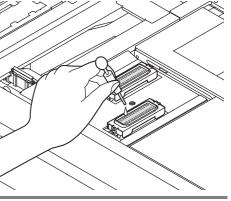
Press the <u>ENTER</u> key.

 Until maintenance liquid is filled, [COMPLETED (NEXT): ENT] is displayed on the screen. After the work up to the Step 8 is completed, press the <u>ENTER</u> key. If you press the <u>ENTER</u> key before maintenance liquid is filled, the carriage returns to the original position.



Take the PR-200 maintenance liquid (C-ML013-Z-B2-1-KW) in a dropper and fill only the cap of the head equipped with PR-200 with it until it is full.

- Fill the cap with the cleaning solution just before the solution overflows from the cap.
- (Important!
- Do not use the PR-200 maintenance cleaning liquid on anything other than the PR-200 mounting head cap, as this may cause nozzle clogging.



PLEASE WAIT

PLEASE WAIT

* *

00:00

CLEAMING **



Press the ENTER key.

- The cleaning solution filled in the cap is absorbed.
- The screen on the right is displayed while the cap is left in a cleaning solution
- It returns to the step2 after the duration.

Execute head cleaning (HARD) once for the head equipped with PR-200.

- (1) Press the [END] key to display the LOCAL screen.
- (2) Press the [CLEANING] key, then press () to select CLEANING: HARD, and press the [ENTER] key.
- (3) In SELECT HEAD, press () to select only Head 3, and press the [ENTER] key.
 - SELECT HEAD



Check the nozzle status by performing a test print.

• When the nozzle clogging occurs, execute nozzle cleaning (HARD) again then check the nozzle status.



• If the nozzle clogging is not resolved even after repeating this cleaning 3 times, contact your local distributor, or our sales office or call center.

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.



· In order to prevent missing dots beforehand and to use it comfortably, it is recommended to perform the air purge once a month.

Select [AIR PG] of the maintenance menu.

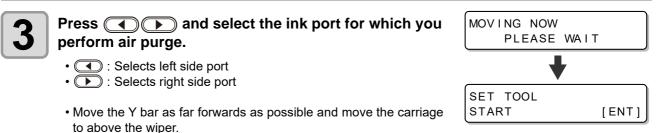
(1) Press the (FUNCTION) key in LOCAL.

(2) Press () to select [MAINTENANCE] and press the ENTER key. (3) Press () To select [AIR PG].

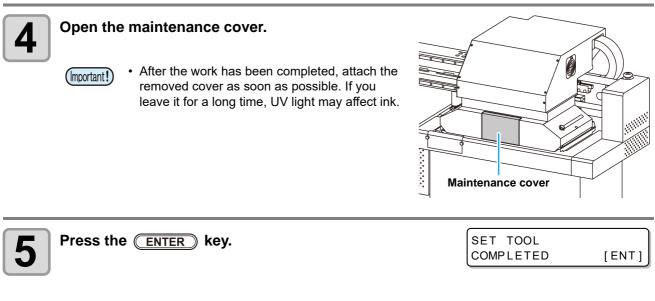


Press the (ENTER) key.

SELECT	AIR	PG		
1 <			>	2



• Press the **ENTER** key to stop it in that position.



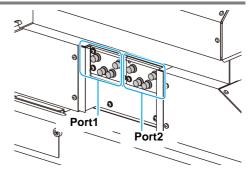
• Until the air purge jig setting is completed, [COMPLETED [ENT]] is displayed on the (Important!) screen. After the work up to the Step 8 is completed, press the **ENTER** key.

6

Open, one at a time, the ink port caps on the side you selected in step 3.

- Be sure to carry out air purging on only one port (Important!) at a time.
 - Do not open the port cap at the side you did not select in the Step 3. If you open the cap, air is mixed from here.
 - · When the valve is hard to open, use the attached longnose pliers and open.

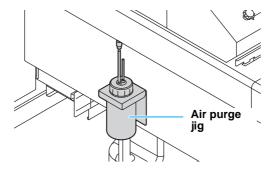


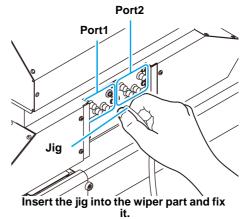




Set the air purge jig to the ink port valve.

There is a magnet attached to the air purge jig's (Important!) bottle. When attaching the bottle to the unit, attach the bottle to a lower position if possible.





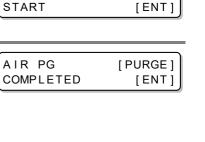
AIR PG

AIR PG

START

8

C



Discharge ink or purge air.

Press the (ENTER) key.

- Press the **ENTER** key to release air from the machine, and completely discharge the ink and other fluids.
- · Discharge mixed ink or air completely. When it is discharged completely, clear ink (not mixed) is discharged.
- . The buzzer will keep sounding at a fixed interval while ink is being discharged.
- · After about 15 seconds, ink discharging will stop automatically and the buzzer will stop sounding.



Press the (FUNCTION) key to weaken ink discharge.

• Press the **FUNCTION** key to enable ink discharge using minute negative pressure in the machine so that ink cannot easily leak. Be sure to always press the (FUNCTION) key so that minute negative pressure is applied in the machine before attaching or removing the jig.



Perform the procedures from 9 to 10 on all ports which have to be purged the air.

• Attach the jig to the port from which you want to purge air and press the (FUNCTION) key to release air from the machine.



- The carriage might move rapidly. Be careful not to place hands, your head or other body parts near the carriage.
- Be sure to always press the **FUNCTION** key so that minute negative pressure is applied in the machine before attaching or removing the jig.

Press the ENTER key.	AIR PG COMPLETED [ENT]
	COMPLETED [ENT]
Press the ENTER key.	REMOVE TOOL START [ENT]
Remove the jig and attach the cap.When you have removed the jig, quickly attach the cap.	
 After attaching the cap, press the ENTER key. Negative pressure control restarts and wiping begins. 	REMOVE TOOL COMPLETED [ENT]
	PLEASE WAIT
 Press main and select "END" or "RETRY". If "END" is selected, cleaning is performed. When cleaning is completed, continue to Step 18. If "RETRY" is selected, the display returns to the screen of Step 2. Select the other port and perform air purging. 	AIR PG END < > RETRY



18

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

Close the maintenance cover.

• After the work has been completed, attach the removed cover as soon as possible. If you leave it for a long time, UV light may affect ink.

Alternative nozzles for printing, when nozzles missing can not be improved

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

The head of this machine consists as the right figure. You can set the recovery by specifying the nozzle line each for the H1-2 (Head 1-2).



About nozzle line This machine is equilated

 This machine is equipped with four nozzle lines (Line A, Line B, Line C and Line D) for one head.

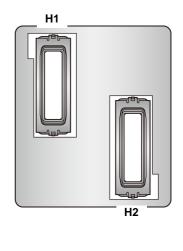


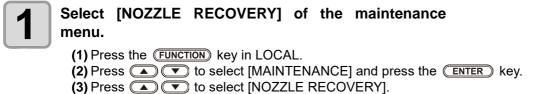
Rear

side

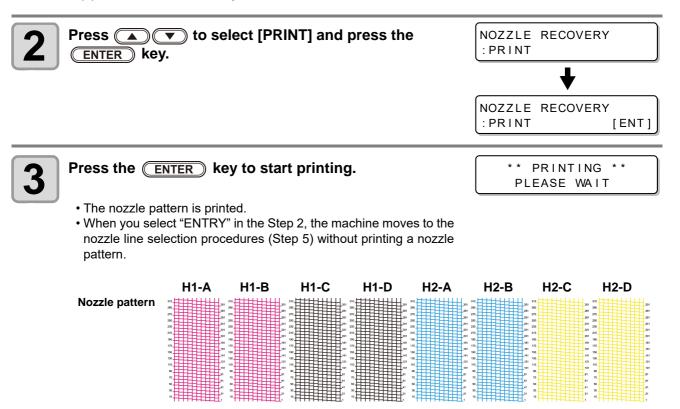
of machin

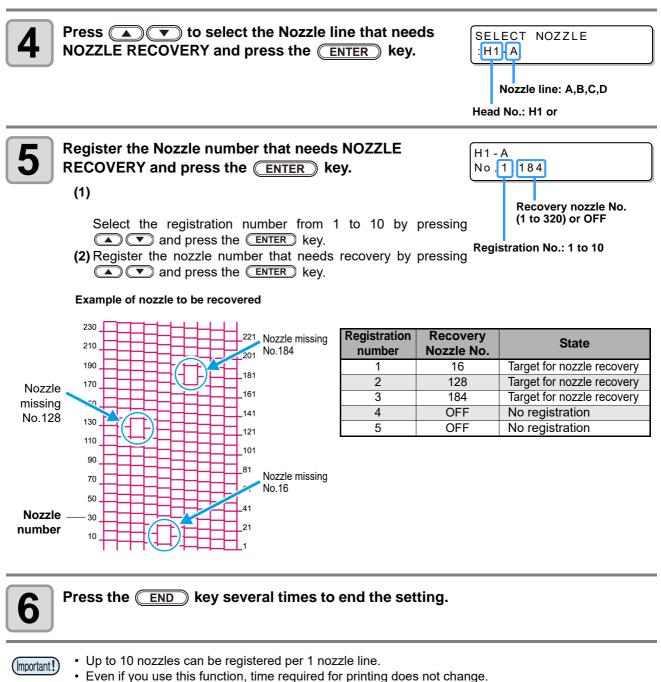
е





(4) Press the ENTER key.





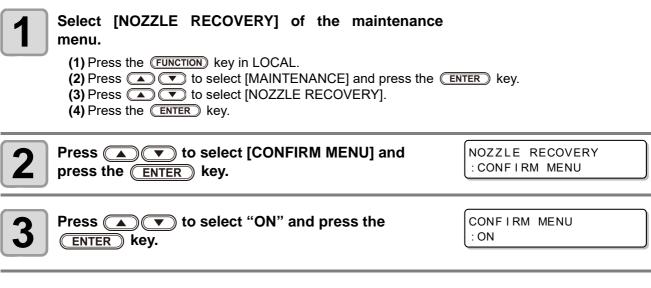
- For the lowest number of paths of the printing mode, the NOZZLE RECOVERY function is invalid.
- Even if you register the NOZZLE RECOVERY, the pattern of test print etc. is not recovered.



· When you use white ink, print on the clear film to check.

Check if the registered nozzle is recovered

You can check whether registered nozzle has been successfully recovered. With the following settings "ON", you can print a test pattern using a recovered nozzle when test print (@ P.2-14).





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

• When test print with the recovered nozzle that was registered in the nozzle recovery, please select "ON" in step 3 of P.2-14 "Test Printing".

4

At the time of the start of printing, check whether or not there is a nozzle that can not be recovered

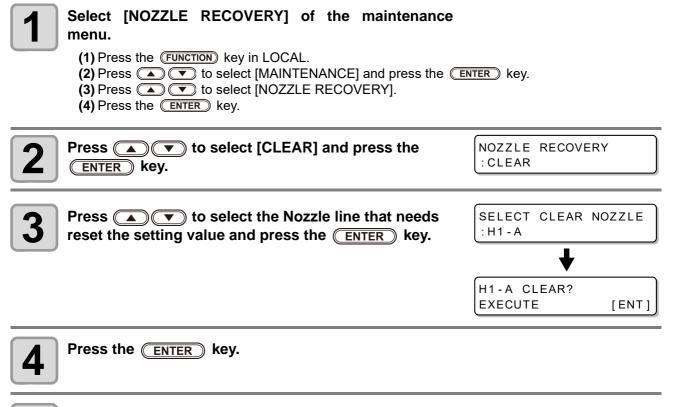
Depending on the print conditions that have been set, there are times when it can not be recovered even register the nozzle recovery.

With this setting, whether recoverable or not can be checked and the operation for non recoverable case can be selected.

Select [NOZZLE RECOVERY] of the maintenance menu. (1) Press the FUNCTION key in LOCAL. (2) Press I To select [MAINTENANCE] and press the INCLINATION (1) Press I TO Select [NOZZLE RECOVERY]. (4) Press the INTER key.	TER) key.
Press To select [CHECK BEFORE PRINT] and press the ENTER key.	NOZZLE RECOVERY :CHECK BEFORE PRINT
 Press rest value and press the ENTER key. Set value:OFF, CONTINUE, STOP OFF :Does not check at the start of printing. 	CONFIRM MENU : ON
 CONTINUE :Check at the time of the start of printing. If not recovered, display the right of screen for 3 seconds, and then start printing. 	1200x1200 32P Hi Bi UNRECOVERABLE
• STOP : Check at the time of the start of printing. If not recovered, display the print confirmation screen. When print, press ENTER.	1200x1200 32P Hi Bi UNRECOVERABLE [ENT]
Press the END key several times to end the setting.	

Clear the set value

5



Press the **END** 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 maintenance functions, the following items can be set:

(Important!)

• When you perform maintenance manually, after manual maintenance is completed and when time set with the automatic maintenance function has passed, maintenance starts automatically.

Function name	Descriptions
REFRESH	The interval between each refreshing operation is set.
CLEANING	The interval between each cleaning operation is set.

• During the right message is displayed, the operation set in the auto maintenance function is not carried out. Perform the operations of P.4-32 if required.

<LOCAL>
Check waste ink[MNT]

• When the power button on the front of the machine is turned off, check the waste ink tank.

Setting the Refreshing Intervals

The interval between each operation of ejecting a small amount of ink from the nozzles to prevent nozzle clogging is set.

Select [AUTO MAINT.] of the maintenance menu. (1) Press the (FUNCTION) key in LOCAL. (2) Press () to select [MAINTENANCE] and press the (ENTER) key. (3) Press (To select [AUTO MAINT.]. Press the (ENTER) key. AUTO MAINT. 2 REFRESH [ENT] REFRESH Press the **ENTER** key. 3 :Lv.1 Press () v to set the refreshing interval. REFRESH 4 :Lv.1 • Set value : OFF, Lv.1, Lv.2, Lv.3 · As the LEVEL increases, the interval between each operation gets shorter. Press the <u>ENTER</u> key. AUTO MAINT. 5 [ENT] REFRESH Press (END the key several times to end the setting. 6

Setting the Cleaning Intervals

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



Select [AUTO MAINT.] of the maintenance menu.

(1) Press the FUNCTION key in LOCAL.
(2) Press To select [MAINTENANCE] and press the ENTER key.
(3) Press To select [AUTO MAINT.].
(4) Press the ENTER key.

Press To select [CLEANING].	AUTO MAINT. CLEANING [ENT]
3 Press the ENTER key.	CLEANING : Lv.1
 Press result to set the interval between each cleaning operation. Set value : OFF, Lv.1, Lv.2, Lv.3 As the LEVEL increases, the interval between each operation gets shorter. 	CLEANING :Lv.1
 5 Press the ENTER key. • When you set other than "OFF" in the Step 4, the cleaning type selection screen is displayed. 	TYPE : NORMAL
 Press to select a cleaning type. Set value : NORMAL, SOFT, HARD 	TYPE : SOFT
7 Press the ENTER key.	AUTO MAINT. CLEANING [ENT]
8 Press the END key several times to end the setting.	

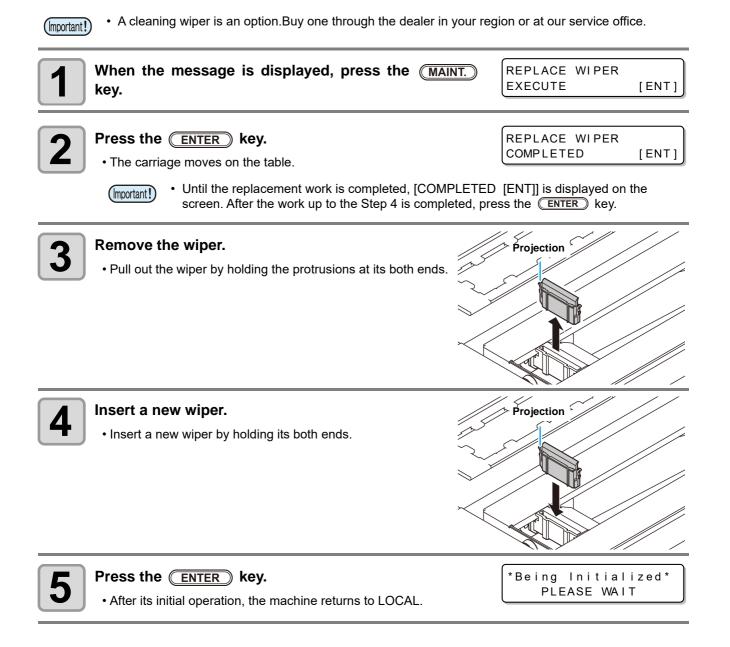
4

Replacing consumables

Replacing the wiper

The wiper is consumable. When the display indicates that it is necessary to replace the wiper, immediately replace the wiper with a new one. Also, wipe ink sticking to the lower surface of the slider off.

<LOCAL> Replace a WIPER[MNT]



If a Waste Ink Tank Confirmation Message Appears

Ink used in head cleaning, etc. is stored in the waste ink tank on the lower right side of the machine. This machine counts the accumulated amount of discharged ink. When that reaches a specified amount, the machine displays a confirmation message.(When this message is displayed, consider the replacement of the waste ink tank.)



• The message is displayed when it reaches 80% (2.1L) of the 2.6L tank.

Confirmation Message in LOCAL

The message on the right is displayed.	<pre><local> Check waste ink[MNT]</local></pre>
 Check the state of the waste ink tank. When it is different from the actual amount, press When you correct (80%), press the ENTER key to return LOCAL. When you replace (disposal) and clear the count, perform procedures in "Disposing of waste ink". (P.4-32) 	



• Discard waste ink frequently. If you simply delete the message by pressing the **ENTER** key, and go on using the printer without disposing of the waste ink, then the waste ink could overflow from the waste ink tank.

Disposing of waste ink

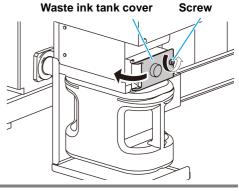
(Important!)

- Be sure to wear the supplied goggles and gloves when disposing the waste ink tank. Otherwise, you may get ink in your eyes.
- Do not replace the waste ink tank while this machine operates (during printing or cleaning).
- When waste ink may spill out during the work, wipe it off with a waste cloth etc.



Open the waste ink tank cover.

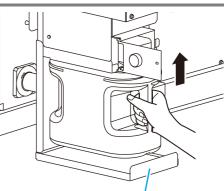
• Remove the screw attaching to the waste ink tank cover and open the cover to the front.





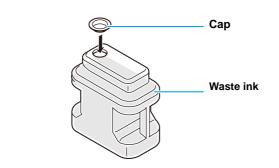
Lift the waste ink tank a little.

• Lift the waste ink tank up to the position where it does not hit the stopper.





Take out the waste ink tank. (1) Hold the handle of the waste ink tank and pull it out to the front. (2) Put a cap on the waste ink tank removed.





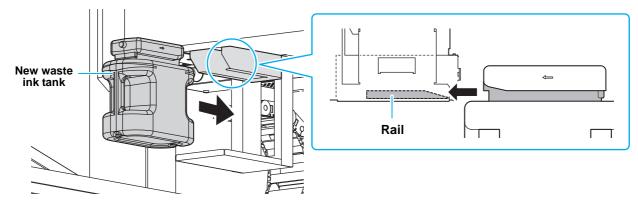


Replace the waste ink tank.

(1) Prepare a new waste ink tank (SPA-0197).

(2) Hold the handle of the waste ink tank and insert it along the rail.

(3) Raise the waste ink tank, and check that it is set just below the waste ink discharging spout.

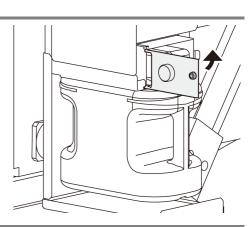


- Request the treatment of waste ink for an industrial waste disposal contractor.
- A part of the ingredients (photo polymerization initiator) has toxicity against aquatic organisms. Please prevent leakage flow to natural water systems (river, etc.) and domestic sewages (toilet, road, etc.)



Close the waste ink tank cover.

• When the machine recognizes the waste ink tank, the warning message is released.



4

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

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

Perform steps 3 through 6 in "Disposing of waste in waste ink tank.	k" (ﷺ P.4-32) to empty the
Press the FUNCTION key in LOCAL.	FUNCTION SETUP [ENT]
 Press to select [INFORMATION]. For the firmware version 1.90 or later, you can also run from the maintenance menu. For the performance from the maintenance, please refer to P4-32. 	FUNCTION INFORMATION [ENT]
4 Press the ENTER key.	INFORMATION USAGE [ENT]
5 Press • • to select [USAGE].	
6 Press the <u>ENTER</u> key several times until the waste ink tank information is displayed.	WASTE INK TANK = 60%
7 Press the <u>MAINT.</u> key.	Confirm a waste tank Level: 60%(1.2L)
Press (To set the level "0%".	Confirm a waste tank Level: 0%(0.0L)
9 Press the ENTER key.	

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

Set the waste ink information to 0% in the maintenance menu.



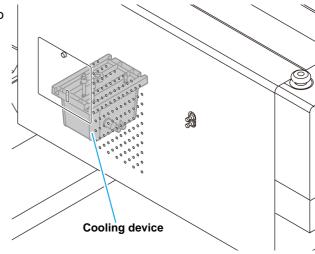
Perform steps 3 through 6 in "Disposing of waste ink" ($\textcircled{}{}$ P.4-32) to empty the waste ink tank.

Press the FUNCTION key in LOCAL.	FUNCTION SETUP [ENT]
Press (To select [MAINTENANCE].	FUNCTION MAINTENANCE [ENT]
4 Press the ENTER key.	MAINTENANCE STATION [ENT]
5 Press • • • to select [InkTankExchange].	MAINTENANCE InkTankExchange[ENT]
 6 Press the ENTER key. When you press the ENTER key, the waste ink information will be 0%. 	WASTE INK TANK = 60%

When you run this menu, it will be the same state as that from the usage to 0% on the previous page.

Refilling antifreeze mixed water

To cool the LED UV unit, put antifreeze mixed water into the cooling water tank in the cooling device.



Note on refill

- Water and antifreeze liquid compound ratio should be 2(water) to 1(Antifreeze liquid).
- When only water is supplied to the cooling water tank without antifreeze liquid, it may damage the UV unit by freeze.
- When only antifreeze liquid is supplied to the cooling water tank without water, the machine does not work properly, and may cause an error.
- If water in the cooling water tank frequently becomes insufficient, contact a distributor in your district or our office.

Dispose of the waste water mixed with antifreeze liquid pursuant to the regulations of your district.



Ц

Caution

- Antifreeze mixture precautions
 - (1)Be sure to use water that satisfies the following conditions.
 - •Calcium content: Not exceeding 10 mg/L (1 mg/100 ml).
 - •Hardness: Not exceeding 60 mg/L.
 - •Distilled or purified water.
 - (2)Do not use antifreeze mixture that has been prepared far in advance.

(3)Any excess antifreeze mixture must be used within one week. Filling the machine with antifreeze mixture that has been prepared more than one week in advance may lead to a malfunction.

Precautions in handling the antifreeze liquid



- Be sure to wear goggle and gloves for handling the antifreeze liquid.
- Use the recommended antifreeze liquid by Mimaki. If not, the cooling device may be broken. (Supplied antifreeze liquid :1000cc x 2 bottles)
- Do not touch the antifreeze liquid directly. If the antifreeze liquid settles on your skin or clothes, immediately wash it off with soap and water. If you get antifreeze liquid in your eyes, immediately wash your eyes with a lot of clean water. Then, consult a doctor as soon as possible.
- Store antifreeze liquid in a dark and cold place.
- Store antifreeze liquid in a place that is out of the reach of children.
- When discarding antifreeze liquid which is no longer needed, entrust them to an industrial waste disposal contractor, clarifying their contents.
- Before using antifreeze liquid, be sure to read the Material Safety Data Sheet (SDS).
- Prepare a tank with a cap to put in the waste water from cooling water tank.
- When water in the cooling water tank is low, an error message is displayed. In this case, replace water in the same way shown as the next page.

<code color="block">



Refill cooling water

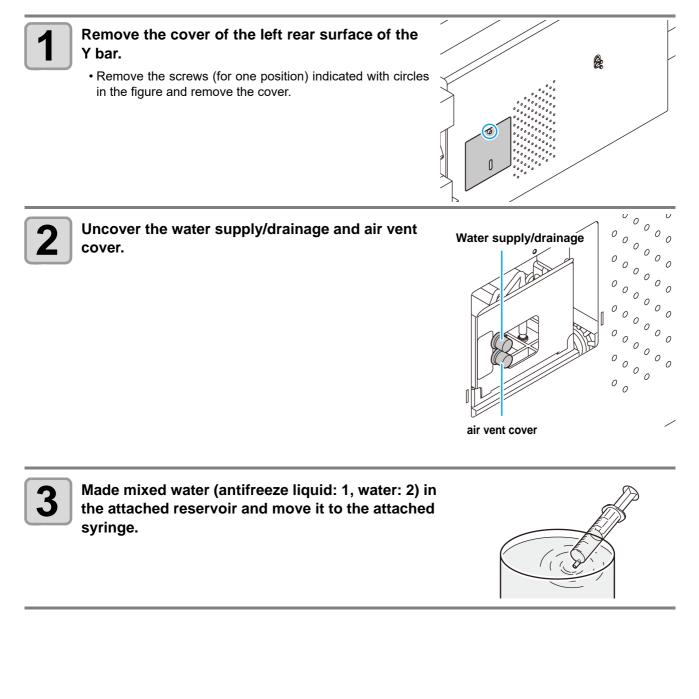
If an error of lack of water, refill cooling water. To fill up its capacity, about 500cc refill is required.

(Important!)

 If leave the error message of lack of water without refilling cooling water after one week, the error display on the display switches to "REFIL WATER". While this error is on the display, you can not switch to <Remote>. Immediately, replenish the cooling water.

<LOCAL> REFILL WATER

 When continue to use with the error of lack of water and the temperature error/warning of the LED-UV occurs, the display shows "REFIL WATER" and can not switch to <Remote>.



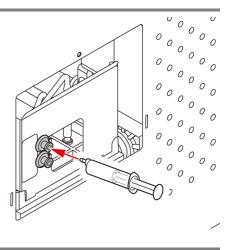


Refill antifreeze liquid.

- Fill the antifreeze liquid from the feed-water inlet.
- Fill the syringe with mixed water and inject while checking the level indicator. Stop injecting when the red part is visible.



• Be sure to check the level indicator as you inject the mixed water. If you fail to check the indicator and inject too much mixed water, the mixed water will leak from the tank.





Close the feed-water inlet and the air purge cover, and attach the cover of the left rear surface of the Y bar.

Exchange the flushing filter

Tools required for	Maintenance liquid (SPC-0568)		
Exchabge	Waste cloth	Gloves	• Goggles



• Be sure to wear the supplied goggles and gloves when exchanging theflushing filter. Since the ink is absorbed in the Flushing filter, you may get ink in your eyes.

If a Flushing Filter Exchange Message Appears

The flushing filter needs to be replaced periodically.

Replace the flushing filter when a replacement message such as shown below appears.



When it is time to replace the flushing filter, the **FLUSHING R** message on the right will appear.

FLUSHING	FILTER
PLEASE	[ENT]



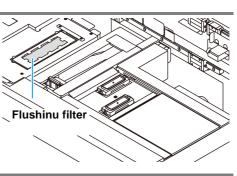
Press the ENTER key.

• The carriage will move, then the message on the right will appear.



Excahange the flushing filter, and then press the <u>ENTER</u> key.

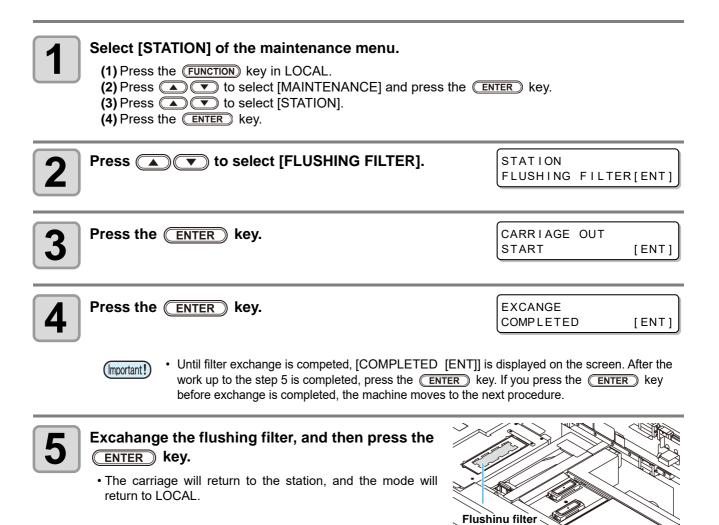
• The carriage will return to the station, and the mode will return to LOCAL.



EXCANGE

COMPLETED

Replacing the flushing filter before the replacement message is displayed





- Before taking care of it, be sure to turn off the main power switch of the main body. You may get an electric shock. Also, you may get injured collaterally.
- Do not touch the electrode probe directly. You may get injured. Be careful to work.
- After cleaning, fully dry it and then attach it to the ionizer to use.
- When maintenance liquid remains on the electrode probe, it may cause an accident or failure of the machine. The cleaning alcohol may touch your skin or get in your eyes.
- Do not touch the electrode probe with a hard thing such as a tool. It may cause an accident or failure of the machine.

Tools required for	Maintenance liquid (SPC-0568)		
maintenance	Alcohol	Gloves	• Goggles

Cleaning the Electrode Probe Appears

Check the electrode probe before the work and clean it if it is dirty.



- Do not touch the electrode probe directly. You may get injured. Be careful to work.
- Do not touch the electrode probe with a hard thing such as a tool. It may cause an accident or failure of the machine



Remove the electrode probe from the ion the flushing filter, the message on the right will appear.

• By using the attached electrode probe replacement kit, you can remove it easily. (1) Put the replacement kit to the electrode probe.



(2) Remove the electrode probe.







Wipe off the electrode probe and around it with a cotton swab immersed in alcohol.

• Recommended: ethyl alcohol, isopropyl alcohol





When it is very dirty

• Use an ultrasonic bath. Also, you can use alcohol as maintenance liquid.

Caution

• After cleaning, fully dry it and then attach it to the ionizer to use. If cleaning liquid remains on the electrode probe, it may cause an accident or failure of the machine.

Clean with Electrode Probe Cleaning Kit (SPA-0237)

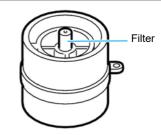
Explain the filter exchange method of Electrode Probe Cleaning Kit (SPA-0237).



Do not touch the electrode probe directly. You may get injured. Be careful to work.
Do not touch the electrode probe with a hard thing such as a tool. It may cause an accident or failure of the machine.



Soak the filter of electrode probe cleaning kit for the cleaning unit in alcohol.





Vover the electrode probe cleaning kit, and gently turn two or three times.

- The filter of electrode probe cleaning kit wipes away stains on the electrode probe.
- If it is very dirty, replace the filter and clean it again.

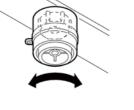


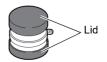
Soak the Cleaning Kit

- Lids are included with the cleaning kit to prevent dust from entering the cleaning kit during storage. Always put the lids on when storing.
- Also, a cord can be passed through the strap hole so that the kit can be hung on a wall. Be sure to put on the lids during this storage method as well. (Please prepare a strap on your own.)



- After the filter is used to clean multiple electrode probes, dust becomes attached to the filter and the cleaning abilities are reduced.
- When grime becomes attached to the filter, replacement it with an electrode probe cleaning kit replacement filter (SPC-0238). (sold separately)







Installing the Filter

Explain the filter exchange method of Electrode Probe Cleaning Kit (SPA-0237).



Cleaning Kit Replacement Filter

- After the filter is used to clean multiple electrode probes, dust becomes attached to the filter and the cleaning abilities are reduced.
- If the filter is dirty, replace with Electrode Probe Cleaning Kit included instead filter or exchange for optional cleaning kit of filters, (SPC-0238).



Remove the used filter and insert the new filter into the hole at the center of the electrode probe cleaning kit.

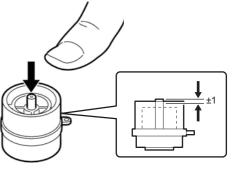
• Be careful of the way the filter is facing. Install the filter with the hole side up.





Push the filter all the way into the cleaning kit.

- Mounting position of the filter to be set in ±1mm to the end faces.
- Push the filter completely inside to prevent it from bending.



Clean the electrode inner wall

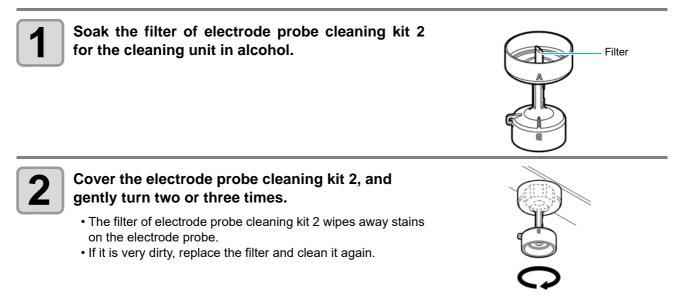
Electrode Probe Cleaning Kit 2 (SPA-0239) is used to clean the inner wall of the electrode probe cap. When clean the tip of the electrode Probe, please use Electrode Cleaning Kit (SPA-0237).

Tools required for	Electrode Probe Cleaning Kit 2 (SPA-0239)		
maintenance	Alcohol	Gloves	• Goggles



• Do not touch the electrode probe directly. You may get injured. Be careful to work.

• Do not touch the electrode probe with a hard thing such as a tool. It may cause an accident or failure of the machine.



Installing the Filter

Explain how to replace the filter of Electrode Probe Cleaning Kit 2(SPA-0239).



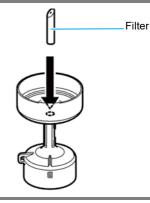
Cleaning Kit 2 Replacement Filter

- After the filter is used to clean multiple electrode probes, dust becomes attached to the filter and the cleaning abilities are reduced.
- If the filter is dirty, replace with Electrode Probe Cleaning Kit 2 included instead filter or exchange for optional cleaning kit of filters, (SPC-0240).



Remove the used filter and insert the new filter into the hole at the center of the electrode probe cleaning kit 2.

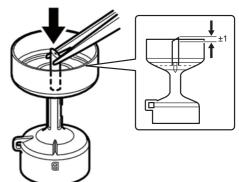
• Be careful of the way the filter is facing. Install the filter with the diagonally tip side up.





Push the filter using tweezers all the way into the electrode probe cleaning kit 2.

- Mounting position of the filter to be set between 0 to 2mm to the end faces.
- Push the filter completely inside to prevent it from bending.



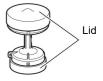


Soak the Cleaning Kit

- Lids are included with the cleaning kit 2 to prevent dust from entering the cleaning kit 2 during storage. Always put the lids on when storing.
- Also, a cord can be passed through the strap hole so that the kit can be hung on a wall. Be sure to put on the lids during this storage method as well.
 Purchase a strap separately.

Cleaning Kit Replacement Filter

- After the filter is used to clean multiple electrode probes, dust becomes attached to the filter and the cleaning abilities are reduced.
- When grime becomes attached to the filter, replacement it with an electrode probe cleaning kit replacement filter (SPC-0238) . (sold separately)

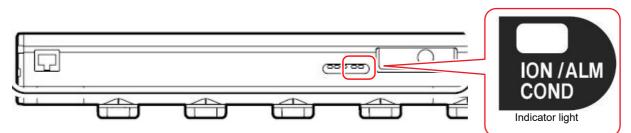




Alarm output function

This ionizer has the function to output alarms.

Alarm output part



Alarm function

ltem	Alarm (ALM)	Ion level (ION)	Condition (COND)
Indication	Indicator light blinks three times about every second.	Indicator light blinks twice about every second.	Indicator light blinks. once about every second
Status etc.	Internal circuit has been broken. Abnormal discharge occurs.	Due to blot on the electrode probe and wear of it, ion production has decreased. Use this as a guide for time to take care of the electrode probe.	The installed environment (temperature, humidity, peripheral metals, etc.) have affected the performance to remove electricity.
Removing electricity	Removing electricity stops.	Removing electricity continues.	Removing electricity continues.
Countermeasure	Contact a distributor in your district or our office.	Take care of the electrode probe. ^{*1} If the status cannot be improved, replace the relevant electrode probe.	Check the environment and peripheral metals.
Replacement part		SPA-0208 Tungsten electrode probes for ionizer (including 4)	

*1. Before taking care of the electrode probe, turn off the main power of the main body, and be careful to perform the work.

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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.

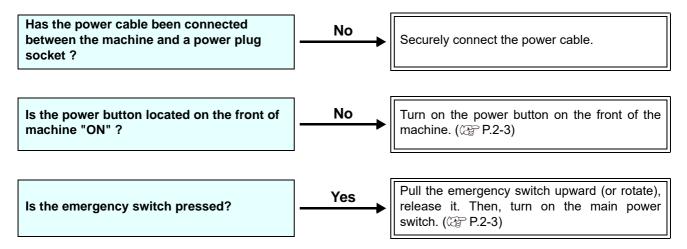
Troubleshooting	5-2
Power does not turn on	
The machine does not start printing	5-2
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Nozzle is clogged	
Ink bottle warning appears	
When the ink leakage occurs	
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If a message "EXECUTE <air pg="">" appears</air>	
Warning / Error Messages	5-9
Warning messages	
Error messages	

Troubleshooting

Check again before deciding the trouble as malfunction. If there is no improvement even after troubleshooting, contact your local distributor, or our sales office or call center.

Power does not turn on

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



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.

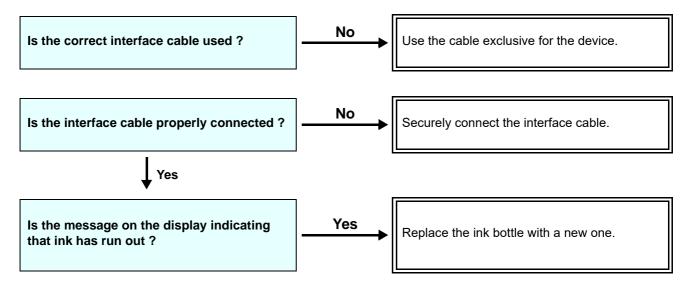


Image quality is poor

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

Phenomenon	Measures
White lines / blur / dark stripes (in the direction of travel of the heads)	 (1) Execute the head cleaning. (GP P.2-15) (2) Perform maintenance of the inside of the station. (GP P.4-4)
Disagreement in print positions between outward trip and homeward trip	(1) Execute the [DROP POSITION] function. (@ P.3-26)
Ink drops falling on media during printing	 (1) Execute the wiper cleaning. (P.4-4) (2) Execute the ink cap cleaning. (P.4-4) (3) Clean around the head. (P.4-8) (4) Execute the head cleaning [NORMAL]. (P.2-15) (5) Set a shorter interval of INTERVAL WIPING operation. (P.3-39)

Nozzle is clogged

(Important!)

• When nozzle clogging is not dissolved even after the head cleaning referring to P.2-15, make sure the recovery the nozzle by the operations of P.4-14.

Ink bottle warning appears

If an ink bottle trouble is detected, the bottle LED "red" is lit, and a warning message appears. None of printing, cleaning and all the other operations that use ink is available. If an abnormality occurs, perform the following procedures:

Check that the IC chip in the ink cover is correctly set.

Replace the ink bottle in question immediately.

(Important!)

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

When the ink leakage occurs

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

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.	LUS-150 REMAIN	ММССҮҮКК 34567899
Press the ENTER key.	NON INK IC MMCCYYKK	

• When multiple bottle defects occur and if you press the **ENTER** key or **()**, they are displayed by turns.

If a Message "SHAKE WHITE INK BOTTLES" Appears

White ink tends to settle, so you must periodically shake the ink bottles. If using white ink, a message will be displayed periodically instructing you to shake the white ink bottle. Follow the procedure below to shake the white ink bottle.

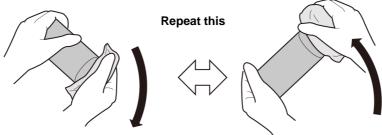
SHAKE WHITE INK BOTTLES [ENT]



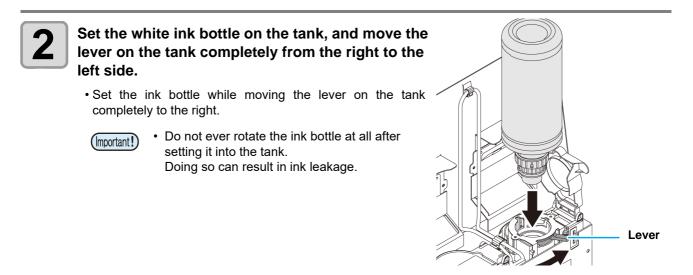
Take out the white ink bottle, and slowly shake it twenty times and more.

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



Cover with paper towel firmly and shake ink slowly





Press the ENTER key.

If an error related to the sub tank occurs (Error 618 to 61b)

The Error 618 to 61b are related to the sub tank.

Execute following procedures when an error about sub tank occurs, or when the nozzle is not unclogged after cleaning.

1	 Select [SUB TANK] of the maintenance menu. (1) Press the FUNCTION key in LOCAL. (2) Press (2) Press (2) Press (3) Press (4) To select [SUB TANK]. 	nter) key.
2	Press the ENTER key.	SELECT SUBTANK :MMKKCCYY
3	 Press ENTER 	SELECT SUBTANK : MMCC
4	Press the ENTER key.	SUB TANK EXECUTE [ENT]
5	 Press the ENTER key. The automatic discharging operation and the filling operation are performed. Then, cleaning is performed. 	** FILL UP ** PLEASE WAIT
	Press (END) the key several times to end the setting.	** CLEANING ** PLEASE WAIT

If negative pressure abnormality occurs

By the environment or aging, the pressure controlled in this machine may exceed the control range. If an error related to pressure abnormality occurs, perform the procedures below:



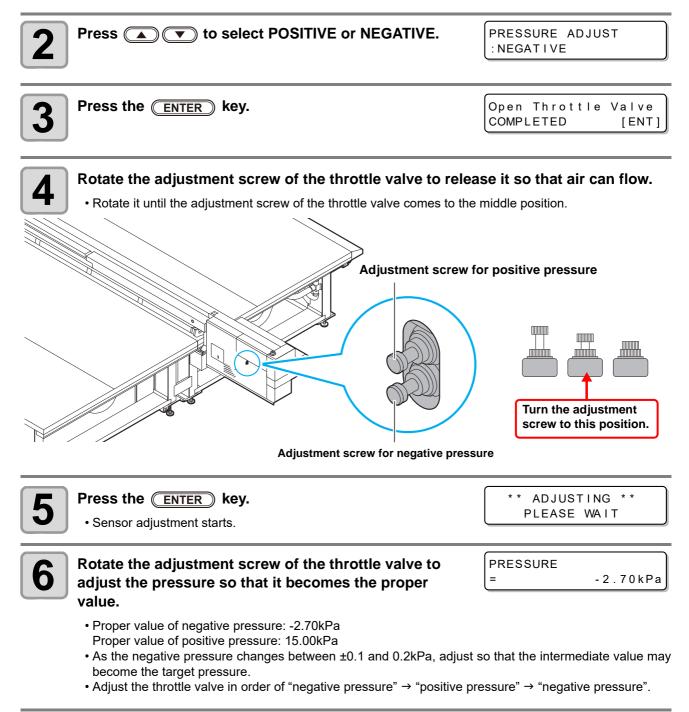
• If pressure abnormality occurs, immediately adjust the pressure with the following procedures and return it to the normal value.

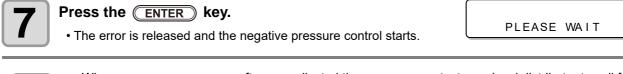


Select [PRESSURE ADJUST] of the maintenance menu.

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

(2) Press
(2) Press
(3) Press
(4)
(5) Constrained and press the Constrained and press the





(Important!)

• When an error occurs even after you adjusted the pressure, contact your local distributor to call for service.

If PL ENC SNS(L)/(R) occurs

PL ENC SNS(L)/(R) error indicates poor sensitivity of the encoder used to correct travel distance in the feeding direction.

When this error occurs, restart the printer.

If this error occurs again after restart, contact your local distributor to call for service.

The image quality may lower before the service engineer arrives. In this case, you can perform printing by setting [MACHINE SETUP]/[PRINT MODE] to [PRIORITY:SPEED]. For the setting procedure, refer to P.3-46 "Setting Print Mode".

If a message "EXECUTE <AIR PG>" appears

To discharge ink remaining in the head, the "EXECUTE <AIR PG>" screen appears periodically.

EXECUTE	<air< th=""><th>PG></th></air<>	PG>
		[ENT]

Press the **ENTER** key and execute [MAINTENANCE] - [AIR PG]. If you do not execute [MAINTENANCE] - [AIR PG], the screen appears in the next day again.

If the process is executed, the screen does not appear for a certain period of time.

Warning / Error Messages

If some trouble occurs, the buzzer sounds and the display shows a corresponding error message. Take an appropriate remedy for the displayed error.

Warning messages

Errors when performing operations

Message	Cause	Solution
CAN'T OPERATE INK ERROR	An ink error occurred.	• Check the ink bottle for the supply path corresponding to the indicated color.
CAN'T OPERATE DATA REMAIN	Data was received.	• Perform data clear. (ﷺ P.2-17)

Message displayed in LOCAL

Message	Cause	Solution
<pre>< LOCAL > Can't PRINT/CART.[ENT]</pre>	Ink errors (unusable ink) occur in multi- ple ink bottles. Ink supply (print, cleaning, etc.) cannot be performed.	• Press the ENTER key to check the ink bottle generating the warning. Replace them with usable ink bottles.
<pre><cur><local></local></cur></pre> <pre>Check waste ink[MNT]</pre>	The waste ink tank is nearly full.	• Check the waste ink tank.
<pre><code color="block"><code color="block"><code color="block"><code color="block"><code color="block"><code color="block"><code color="block"><code color="block"><code color="block"></code></code></code></code></code></code></code></code></code><td>Time to replace the wiper in the cap- ping station with a new one has come. (The wiping count has reached the specified value.)</td><td>• Press the (MAINT.) key and replace the wiper with a new one. ((2) P.4-30)</td></pre>	Time to replace the wiper in the cap- ping station with a new one has come. (The wiping count has reached the specified value.)	• Press the (MAINT.) key and replace the wiper with a new one. ((2) P.4-30)
<pre><code code="" code<="" td=""><td>The data has been received.</td><td>Press the key to perform printing. Or, per- form data clear.</td></code></pre>	The data has been received.	Press the key to perform printing. Or, per- form data clear.
(<local> WATER LACK</local>	Water in the cooling water tank becomes less.	 Refill cooling water according to P.4-36 "Refilling antifreeze mixed water".
<local> REFILL WATER</local>	It has been 7 days or more since water of cooling water tank is running low.	 Refill cooling water according to P.4-36 "Refilling antifreeze mixed water". While this warning is displayed, on-line printing can not be done.
<pre></pre> (<local> UV LAMP TEMP. HIGH</local>	The LED lamp temperature is high.	• Wait for a while until the temperature low- ers and the message disappears.

Message	Cause	Solution	
<pre><local> NEGATIVE PRESSURE</local></pre>	The value of the negative pressure sensor is abnormal.	 Perform "PRESSURE ADJUST" (P.5- 7) of the maintenance. If you cannot adjust it to the normal value, or, even if you per- 	
<pre><cure></cure></pre>	The value of the positive pressure sen- sor is abnormal.	form, it may be displayed, contact you local distributor to call for service.	
<pre><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><cure><</cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></cure></pre>	The ink of the ink bottle has been nearly used up. There is little ink in the supply unit.	• Press the ENTER key to check the relevant ink bottle. Be careful because it may be INK NEAR END soon.	
<pre><local> SUPPLY INK :MMCCYYKK</local></pre>	Ink could not be supplied to the sub tank.	• Perform "SUB TANK" ((2) P.5-6) of the maintenance. Also check the remaining amount of ink in the ink bottle. Even if you performed this, when the message is displayed, contact your local distributor to call for service.	
<pre><local> SubtankSens:MMCCYYKK</local></pre>	The liquid level sensor abnormality of the sub tank has been detected.	 Turn off the power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for ser- vice. 	
<pre>< LOCAL > InkOverflow:MMCCYYKK</pre>	Overflow from the sub tank has been detected.		
<pre><local> TANKIevrIH :MMCCYYKK</local></pre>	Though a certain amount was con- sumed, there is no change in the sub tank sensor High.	 Perform "SUB TANK" (CP P.5-11) of the maintenance. Even if you performed this, when the message is displayed, contact your local distributor to call for service. 	
<pre><local> TANK!evr!L :MMCCYYKK</local></pre>	Though a certain amount was con- sumed, there is no change in the sub tank sensor Low.		
<pre><local> MachineTEMP/Hi ***°C</local></pre>	The machine temperature is high.	Adjust the ambient temperature of the	
<pre><local> MachineTEMP/Lo ***°C</local></pre>	The machine temperature is low.	installation place.	
<local> Replace SupplyPUMP</local>	The supply pump in the ink path shall be replaced soon.	• The supply pump shall be replaced. Contact a distributor in your district, our office, or our call center.	
<local> Replace SuctionPUMP</local>	The suction pump in the ink path shall be replaced soon.	• The suction pump shall be replaced. Contact a distributor in your district, our office, or our call center.	
<pre><local> Replace Ymotor Brush</local></pre>	Time to replace the brush of Y motor has come.	• The brush of Y motor shall be replaced. Contact a distributor in your district, our office, or our call center.	
SHAKE WHITE INK BOTTLES [ENT]	Time to shake the white ink bottle has come.	• Shake the bottle according to "If a Mes- sage "SHAKE WHITE INK BOTTLES" Appears" (P.5-5) of the maintenance.	
EXECUTE <air pg=""> [ENT]</air>	Time to execute air purge has come.	• Perform "If a message "EXECUTE <air PG>" appears" ((2) P.5-8) of the mainte- nance.</air 	

Ink Error

Ink error is displayed also in the local guidance. (CP P.3-48)

Message	Cause	Solution
NON INK IC : YYKK WRONG INK IC : YYKK	The IC chip of the ink bottle cannot be read normally.	 Remove the ink bottle generating the warning once and install it again. If the same warning message still appears, contact your local distributor to call for service.
KIND OF INK : YYKK	The ink of the ink bottle is different in type from the ink currently supplied.	• Check the ink type of the ink bottle gener- ating the warning.
COLOR OF INK : YYKK	The ink of the ink bottle is different in color from the ink currently supplied.	 Check the ink color of the ink bottle gener- ating the warning.
WRONG INK BOTTLE : YYKK	An error occurred in the IC chip infor- mation of the ink bottle.	 Check the ink bottle generating the warn- ing.
NO INK BOTTLE : YYKK	The ink bottle is not set on the external ink supply unit.	• Set the ink bottle on the bottle holder with the warning.
EXPIRATION : YYKK	The ink has expired.	• Replace with new ink or use up as quickly as possible. Printing is possible. @ P.1-14 "Replace the ink bottle"
EXPIRATION(1MONTH) :YYKK	The ink is one month past its expiration date and cannot be used.	• Replace with new ink or use up as quickly as possible. Printing is possible. @ P.1-14 "Replace the ink bottle"
EXPIRATION(2MONTH) : YYKK	The ink is two months past its expira- tion date and cannot be used.	• Replace with new ink. Printing is not possible.

Error messages

When an error message is displayed, eliminate the error according to the chart below. If the same error message appears again, contact your dealer or an office of MIMAKI to call for service.

Message	Cause	Solution	
ERROR 04 PARAM ROM	There is an abnormality in the parame- ters.		
ERROR 108 HD CONNECT[12345678]	Head connection can not be confirmed.		
ERROR 108 HD THERMIS[12345678]	Head temperature can not be read.		
ERROR 12a HDC SPEED	An abnormality occurred in the ink dis- charge waveform.	 Turn off the power to the machine and turn it on after a while. If the same error message appears again, 	
ERROR 12e Head Failed[xxxx]	Abnormality of the Driver of the Print head.	contact your local distributor to call for ser- vice.	
ERROR 122 CHECK:SDRAM	There is no PRAM.		
ERROR 128 HDC FIFO OVER	Data transmission speed is too fast. Control circuit board is defective.		
ERROR 128 HDC FIFO UNDER	Data transmission speed is too slow. Control circuit board is defective.		
ERROR 129 BATTERY EXCHANGE	The battery life end of the internal clock is detected.	 Contact your local distributor to call for ser- vice. 	
ERROR 130 HD DATA SEQ	Head data transferring sequence error occurred.		
ERROR 148 E-LOG SEQ	Sequential number abnormality of the event log occurred.		
ERROR 151 Main PCB V12R	An error occurred in the main PCB 1.2V power supply.		
ERROR 152 Main PCB V2R5	An error occurred in the main PCB 2.5V power supply.	• Turn off the power to the machine and turn	
ERROR 153 Main PCB V3R3	An error occurred in the main PCB 3.3V power supply.	it on after a while. If the same error message appears again, contact your local distributor to call for ser-	
ERROR 154 Main PCB V05	An error occurred in the main PCB 5V power supply.	vice.	
ERROR 155 Main PCB V35-1	An error occurred in the main PCB 35- 1 power supply.		
ERROR 156 Main PCB V5B	An error occurred in the main PCB 5VB power supply.		
ERROR 157 Main PCB VTT	An error occurred in the main PCB VTT power supply.		

Message	Cause	Solution
ERROR 158 Main PCB V352	An error occurred in the main PCB 35- 2V power supply.	
ERROR15 f HEAD DRIVE HOT	COM driver becomes the high tem- perature.	
ERROR 16e Main PCB V3R3B	An error occurred in the main PCB 3.3VB power supply.	
ERROR 171 NEW HEAD CONNECT	New Print Head was recognized.	
ERROR 172 Main PCB Q6 Check K	The main PCB Q6 is disabled (short mode).	
ERROR 186 HDC OVERFLOW		
ERROR 186 HDC UNDERFLOW	An error is detected on the waveform	• Turn off the power to the machine and turn
ERROR 187 HDC SLEW RATE	printed on.	
ERROR 188 HDC MEMORY		it on after a while. If the same error message appears again, contact your local distributor to call for ser-
ERROR 18a Main PCB V_CORE	An error occurred in the main PCB power supply.	vice.
ERROR 18b Main PCB V1R5B	An error occurred in the main PCB 1.5V power supply.	
ERROR 18b Main PCB V12	An error occurred in the main PCB 12V power supply.	
ERROR 18e FLS NOT COMP [12]	An error occurred in the flushing control.	
ERROR 18 f OFFSET START [12]	An error occurred in the head voltage	
ERROR 18 f OFFSET END [12]	control.	
ERROR 19d HDC V36 [12]	An error occurred in the HDC PCB voltage control.	
ERROR 19f LED CONNCT ERR:****	The LED UV is not connected.	
ERROR 201 COMMAND	The machine received some data other than command data.	
ERROR 202 PARAMETER	Any parameter outside the range of acceptable numeric values was received.	 Securely connect the interface cable in position. Use an interface cable conforming to the specifications.
ERROR 203 Ment Command	A maintenance command error occurred.	

Message	Cause	Solution
ERROR 207 VERSION(RipSoftware)	Though the toggle printing method is set to FR ORIGINS, the RIP software does not support FR ORIGINS.	 Upgrade the RIP software to the latest version. Change the toggle printing method to "OFF" or "FF ORIGINS".
ERROR 208 CHECK(RipSoftware)	Data with an improper printing area specified is received.	 Check the RIP software settings and perform RIP process again. If the same error message appears again, restart the RIP software.
ERROR 304 USB INIT ERR	USB device initialization failure.	
ERROR 305 USB TIME OUT	Occurrence of a time out error on a USB device.	
ERROR 401 MOTOR X	An excessive load was applied to the X motor.	• Turn off the main power to the machine and turn it on after a while. If the same error message appears again,
ERROR 402 MOTOR Y	An excessive load was applied to the Y motor.	contact your local distributor to call for ser- vice.
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 444 Y MOTOR BRUSH	Time to replace the brush of Y motor has come.	• The brush of Y motor shall be replaced. Contact a distributor in your district, our office, or our call center.
ERROR 505 MEDIA JAM	The media jam occurs.	• Remove the media and reset it.
ERROR 509 HDC POSCNT	A HDC position counter error occurred.	
ERROR 50a Y ORIGIN	Y-origin could not be detected.	• Turn off the main power to the machine and turn it on after a while. If the same error message appears again,
ERROR 50 f L-SCALE BLACK	Abnormal linear scale.	contact your local distributor to call for ser- vice.
ERROR 510 X ORIGIN	X-origin could not be detected.	
ERROR 519 NEGATIVE P.SENSOR	The value of the negative pressure sensor is abnormal.	• Perform "PRESSURE ADJUST" (@ P.5- 7) of the maintenance. If you cannot adjust it to the normal value, or, even if you per-
ERROR 51a POSITIVE P.SENSOR	The value of the positive pressure sensor is abnormal.	form, it may be displayed, contact your local distributor to call for service.
ERROR 51e PL ENC SNS(L)	X left-side linear scale poor sensitivity	• Turn off the power to the machine and turn it on after a while. If the same error mes-
ERROR 51e PL ENC SNS(R)	X right-side linear scale poor sensitivity	sage appears again, contact your local dis- tributor to call for service.
ERROR 617 SUBTANK SNN:12345678	The liquid level sensor abnormality of the sub tank has been detected.	• Turn off the main power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for ser- vice.

Message	Cause	Solution
ERROR 618 TANKIevelH :12345678	Though a certain amount was con- sumed, there is no change in the sub tank sensor High.	• Perform "SUB TANK" (@P.5-6) of the
ERROR 619 TANKIevelL : 12345678	Though a certain amount was con- sumed, there is no change in the sub tank sensor Low.	maintenance. Even if you performed this, when the message is displayed, contact your local distributor to call for service.
ERROR 61a OVER FLOW : 12345678	Overflow from the sub tank has been detected.	
ERROR 61b SUPPLY INK :12345678	 Perform "SUB TANK" (CP P.5 maintenance. Also check the amount of ink in the ink bottle. E performed this, when the mess played, contact your local distrib for service. 	
ERROR 61c NEGATIVE P.CONTROL	Starting of the negative pressure con- trol has an abnormality.	
ERROR 61d NEGATIVE P.NotEnough	The negative pressure cannot be kept	 Perform "PRESSURE ADJUST" (
ERROR 61e NEGATIVE P. OVER	properly	
ERROR 61f POSITIVE P.CONTROL	Starting of the positive pressure control has an abnormality.	form, it may be displayed, contact your local distributor to call for service.
ERROR 620 POSITIVE P.NotEnough	The positive pressure cannot be kept	
ERROR 621 POSITIVE P. OVER	properly.	
ERROR 702 THERMISTOR	The thermistor of a heater is defective.	
ERROR 706 DRV OVHT 0**0**	UVLED Driver circuit board is very hot.	
ERROR 707 !H1 HEATER BREAK	A head heater is disconnected.	 Turn off the main power to the machine and turn it on after a while. If the same error message appears again,
ERROR 714 INK HEATER COM ERR	Communication error of ink heater circuit board.	contact your local distributor to call for ser- vice.
ERROR 715 InkHeaterRThr:12	Abnormal Ink heater thermistor.	
ERROR 715 InkHeaterFThr:12		

Message	Cause	Solution	
ERROR 716 InkHeaterLTmp:12 ERROR 716 InkHeaterRTmp:12	Anomaly temperature of ink heater.	 Turn OFF the power of the machine and turn it ON again after a while. When the power is ON, the screen for selecting whether to control the ink heater is displayed. Press the [>] (START) key and start the control of ink heater. If still display, please call for our service or our dealer 	
ERROR 717 InkHeaterRBrk:12 ERROR 717 InkHeaterLBrk:12	Ink heater is disconnected.	• Turn off the main power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for ser-	
ERROR 718 InkHeaterPCB Thr:12	Abnormal thermistor of the ink heater PCB.	vice.	
ERROR 719 InkHeaterPCB Fuse:12	Ink heater PCB fuse is out.	• Turn off the main power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for ser-	
ERROR 71A UV-DRV Fuse :*****	UVLED diver circuit board fuse has blown.		
ERROR 711 LED OVHT 0**0**	UVLED circuit board is very hot.	vice.	
ERROR 902 DATA REMAIN	There remains received data that has not yet been printed.	• Execute the data clear function. (@PP.2-17)	
ERROR 90d NO HEAD SELECT	The number of mounted heads is 0 (zero).	 Turn off the main power to the machine and turn it on after a while. If the same error message appears again, contact your local distributor to call for ser- vice. 	
ERROR 910 ENVIRONMENT TEMP(LO)	The ambient temperature is out of the usable temperature range (too low).	• Adjust the ambient temperature of the	
ERROR 911 ENVIRONMENT TEMP(HI)	The ambient temperature is out of the usable temperature range (too high).	installation place.	

SYSTEM HALT

Message	Solution
SYSTEM HALT 000: MESSAGE	Turn off the main power to the machine and turn it on after a while. Check the number and contact your local distributor to call for service. ("000" is the error No.)

Chapter 6 Appendix



This chapter

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

Specifications	6-2
Machine specifications	
Ink specifications	
Setting orders depending on ink type	
Setting orders of ink bottles	
Sheet for inquiry	6-6
Function Flowchart	6-8

Specifications

Machine specifications

	Method	Drop-on-demand piezoelectric print heads
Print head	Specification	2 heads: 2-layered staggered arrangement in 1-line
Printing mode (scan x feed)	4-colors	300x450HQ : Bi/Uni 6/12 pass 600x600 : Bi/Uni 8/16 pass 600x900 : Bi/Uni 12/24 pass 1200x1200 : Bi/Uni 16/32 pass
	4-colors + White	300x450HQ : Bi/Uni 12/24 pass 600x600 : Bi/Uni 16/32 pass 600x900 : Bi/Uni 24/48 pass 1200x1200 : Bi/Uni 32/64 pass
Usable inks		Dedicated UV curable in (Y, M, C, K, W, CL,P)
Ink supply		Supplying 1L x 8 bottles (For 4-color, UISS switching is available. Also, UISS switching is available for M and C with 4-color + W)
	4-colors	1L-bottle x 2 for each color
A B B B B B B B B B B	4-colors + White	Y and K: 1 bottle each. M, C and W: 2 bottles each.
Capacity of ink bottle	4-colors + White + Clear	M, C, Y and K: 1 bottle each. W and CL: 2 bottles each.
bottio	4-colors + White + Clear + Primer	M, C, Y, K, Cl and P: 1 bottle each. W: 2 bottles.
	6 colors + White	M, C, Y, K, Lc and Lm: 1 bottle each. W: 2 bottles.
	Size	2580mmx3210mm (101.6inx126.4in)
Usable media	Thickness	50mm or more (2.0in or more)
Usable media	Weight	Up to 50kg / m2. Prohibit concentrated load. (Up to 10.2lb / ft2. Prohibit concentrated load.)
Max. printing wid	th	2500x3100mm (98.4x122.0in)
Distance accu-	Absolute accuracy	Whichever the larger one of ± 0.3 mm or ± 0.3 % of the designated (Whichever the larger one of ± 0.01 in or ± 0.3 % of the designated)
racy	Reproducibility	Whichever the larger one of \pm 0.2 mm or \pm 0.1 % of the designated (Whichever the larger one of \pm 0.08 in or \pm 0.1 % of the designated)
Head height adju	stment	1.2mm to 3mm (media thickness automatic recognition) (0.05in to 0.1in (media thickness automatic recognition))
Media absorption	1	Absorption fixing with vacuum unit
UV unit		UV LED lamp fitting (mounted on carriage) UV power is mounted in the main body.
Waste ink tank		Bottle type (3,200 cc)/ Detected by software counter
Interface		USB 2.0
Command		MRL- III
Noise	during standby	Less than 55 dB
10130	At operation ^{*1}	Less than 74 dB
Safety Standard		VCCI-Class A, FCC-Class A, UL 60950, CE Marking (EMC,Low Volt- age Directive,Machinery Directive, RoHS Directive), CB Report
Power	Inlet1	AC200 - 240 ± 10% , 50/60Hz ± 1Hz , 12A or less (recommended circuit breaker is 30A)
	Inlet2	AC200 - 240 ± 10% , 50/60Hz ± 1Hz , 8A or less (recommended circuit breaker is 30A)
Power	Inlet1	2880W or less
consumption	Inlet2	1920W or less
Recomended Environment	Available temp.	15 °C to 30 °C (59°F to 86°F)
	Humidity	35 to 65% Rh (No condensation)
	Guaranteed temp.	18 °C to 25 °C (64.4°F to 77°F)
	Temperature change	± 10 °C / h or less (± 50 °F / h or less)
	Dust	0.15mg/m ³ (Equivalent to normal office level)
Weight		1000 kg (2204.6 lb)
Outside dimensions		4370 mm(W) x 4320 mm(D) x 1680 mm(H) (Including projection) (172.0 in(W) x 170.1 in(D) x 66.1in(H) (Including projection))

*1. 73.5db(A), Operation condition: High-speed scanning, Blower is ON Method: According to clause 1.7.4.2 of Machinery Directive 2006/42/EC

Ink specifications

lte	em	Specifications
Supply		1L Ink bottle
Color		Black ink Cyan ink Magenta ink Yellow ink White ink Light cyan (only LUS150 ink) Light magenta (only LUS150 ink) Clear ink (LH100 ink, LUS120 ink, LUS350 ink) Primer ink (PR-100, PR-200)
Ink capacity		1 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 (Storage at temperature of 30°C is permitted within a month.) (41 to 86°F (Storage at temperature of 86°F is permitted within a month.))
	Transportation	 1 to 60°C (Storage at temperature of 60°C is only permitted within 120 hours, and at temperature of 40°C is permitted within a month.) (1 to 140°F (Storage at temperature of 140°F is only permitted within 120 hours, and at temperature of 104°F is permitted within a month.))

(Important!)

• Do not use any ink other than MIMAKI designated ink.

Also, do not disassemble the ink bottles or refill or replenish their ink. Ink could freeze if kept in a cold place for an extended period.

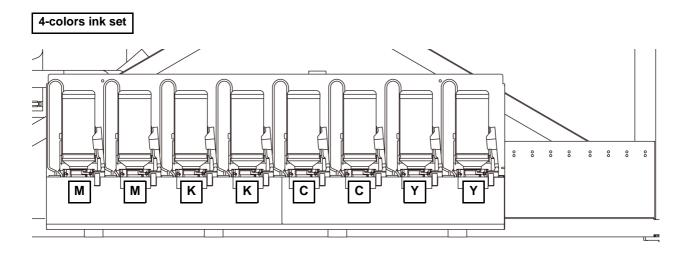
• If the ink freezes, thaw it at room temperature (25°C) spending more than three hours before use. However, when you use the frozen ink, the printing quality becomes degraded due to altered ink. Store ink in the environment where ink may not freeze.

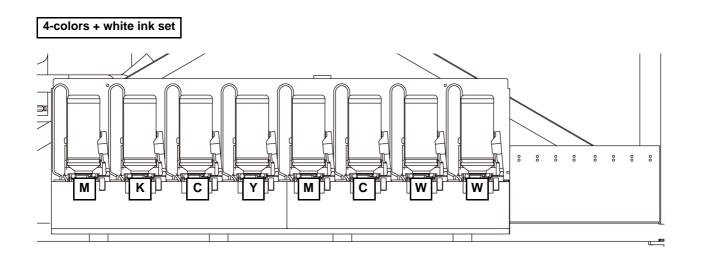
Setting orders depending on ink type

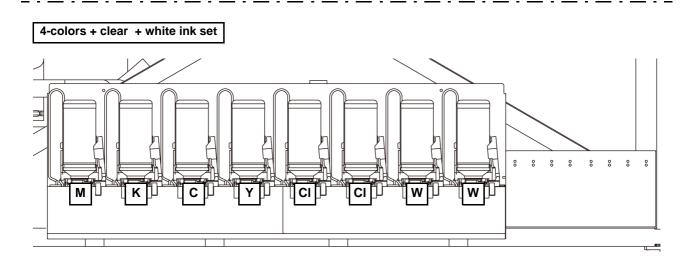
The setting value and the setting orders of the ink bottles differ depending on the ink type you use.

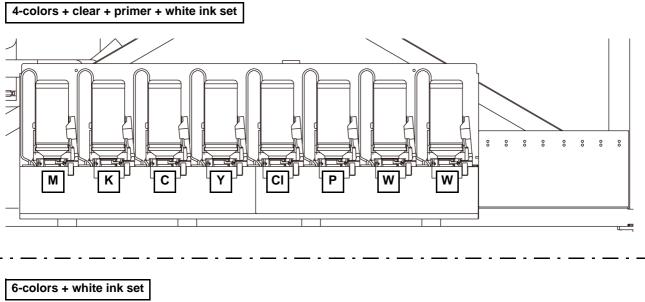
Setting orders of ink bottles

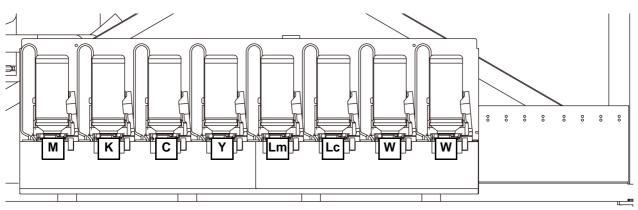
The order of the ink bottles that are set differs depending on the ink set that is used.











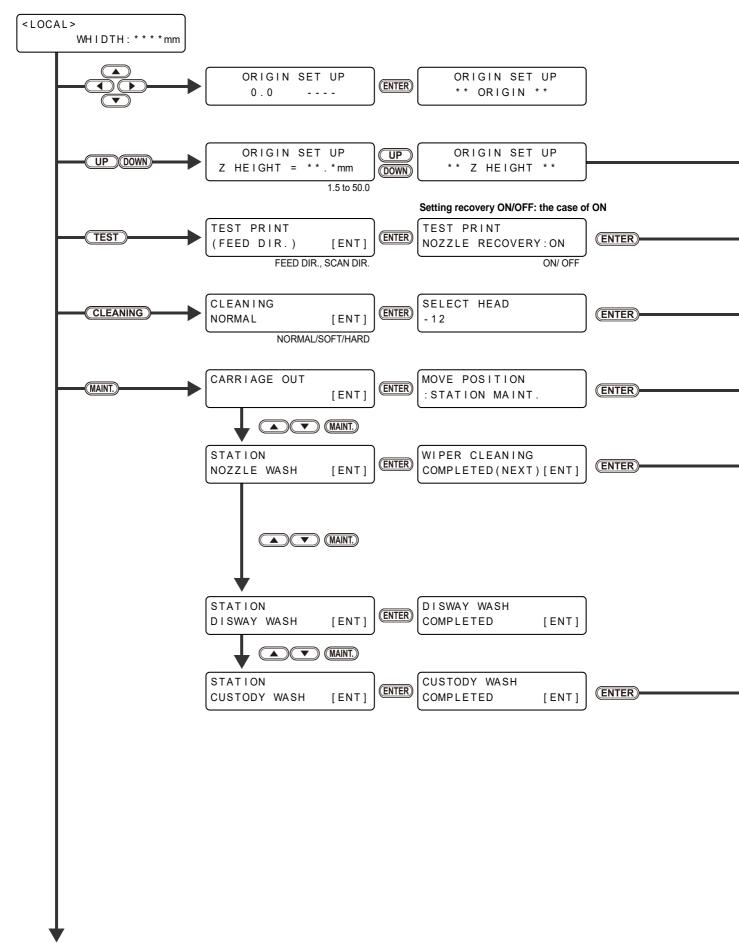
Sheet for inquiry

Use this sheet for troubles and abnormal functions of the machine. Fill in the following necessary items, and then fax the sheet to our sales office.

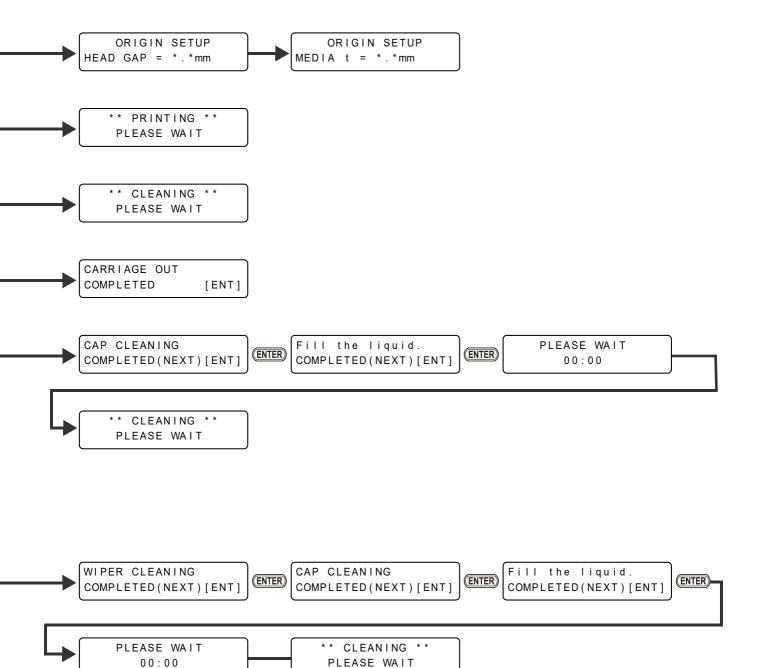
Company name	
Person in charge	
Telephone number	
machine model	
Operating OS	
Machine information *1	
Error message	
Contents of inquiry	

^{*1.} Refer to "Confirming Machine Information" of "Convenient using" then fill in necessary information. (CP P.3-48)

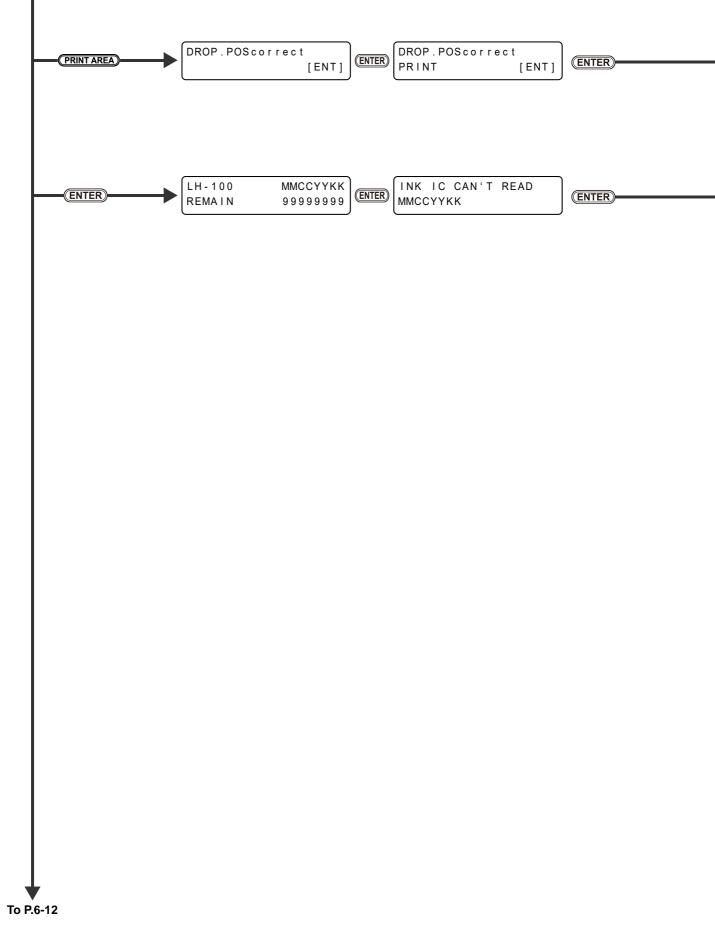
Function Flowchart

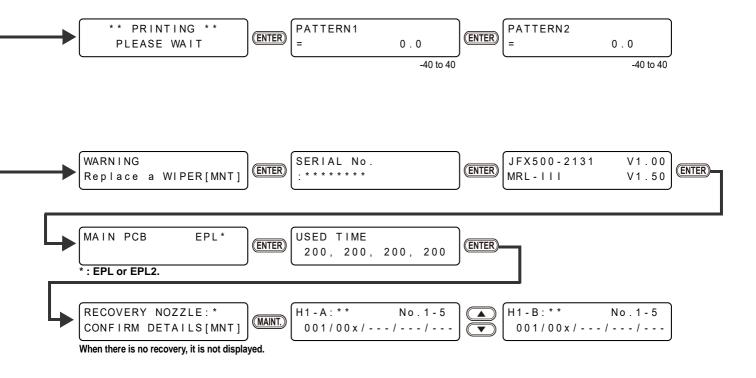


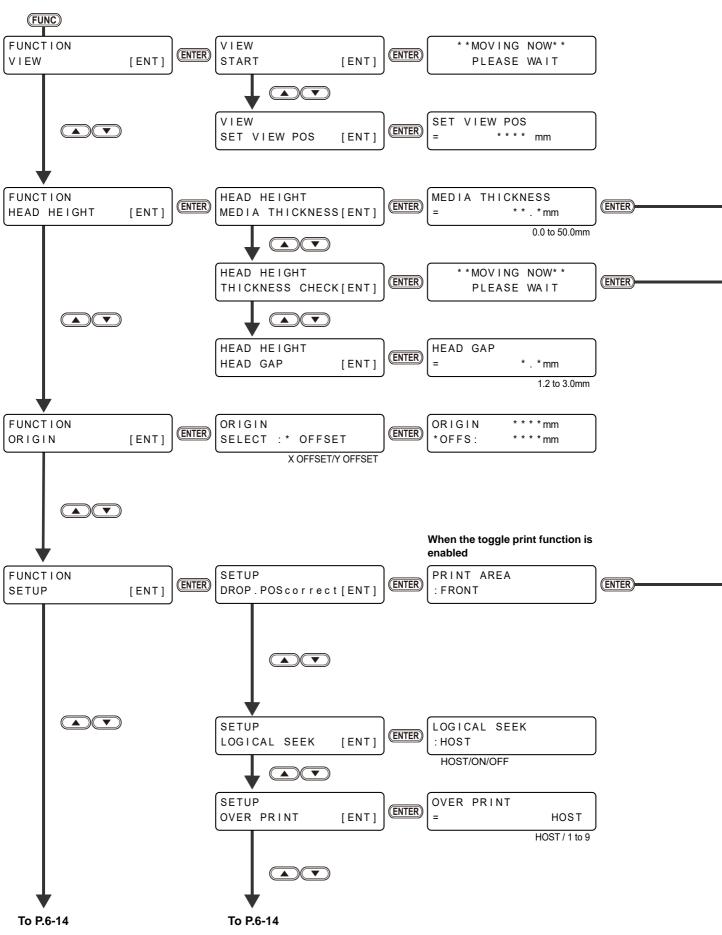






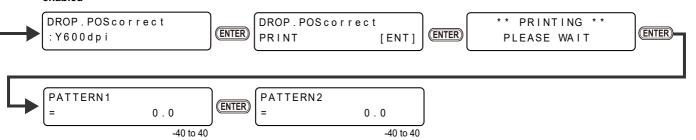


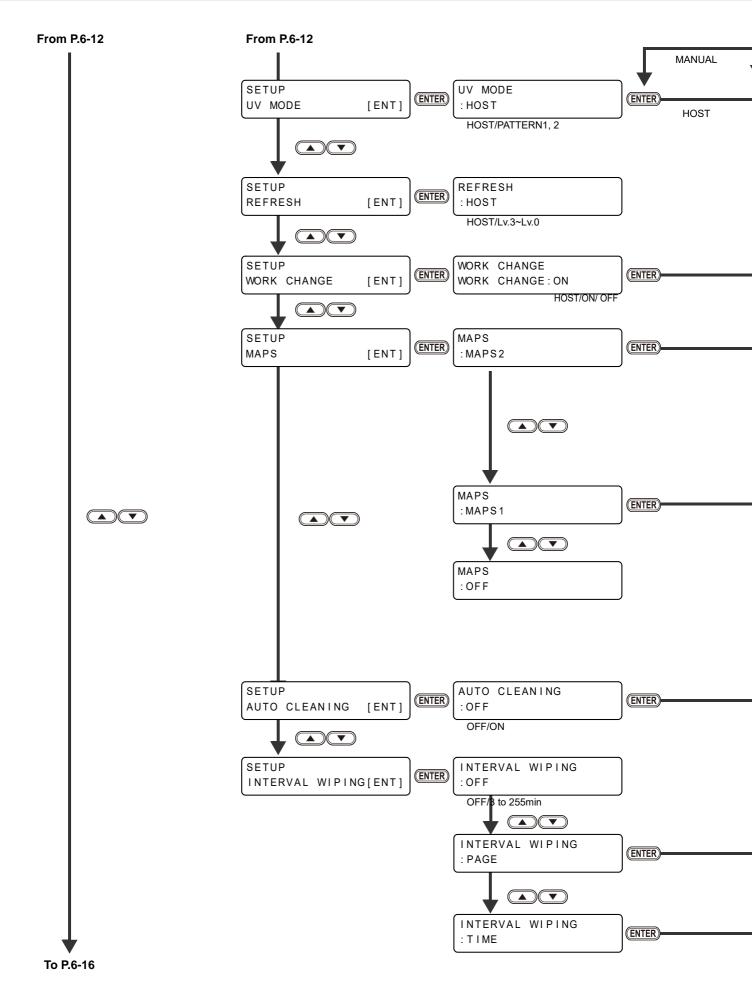


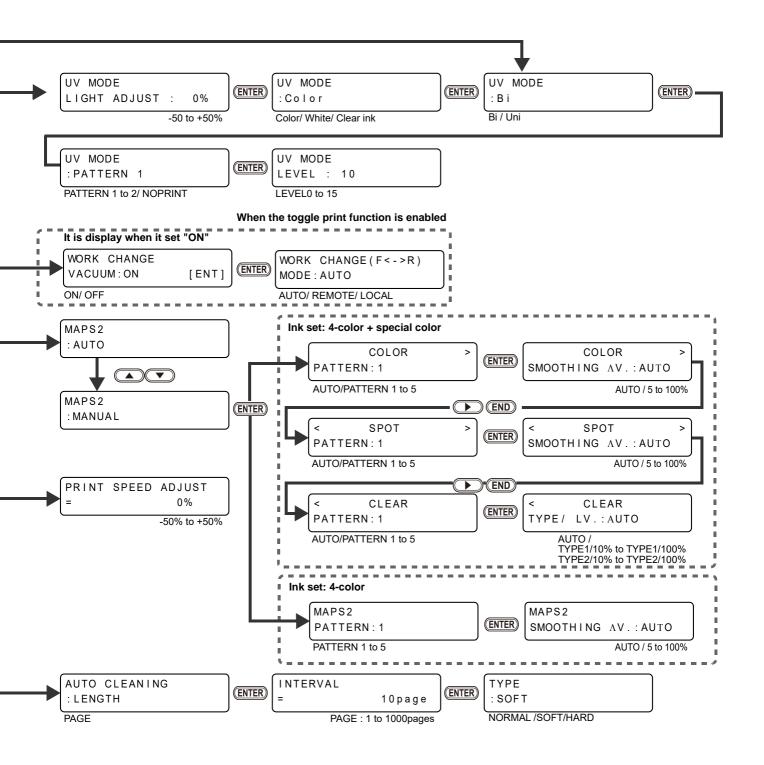


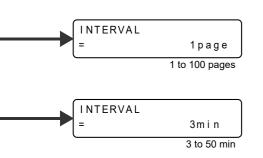


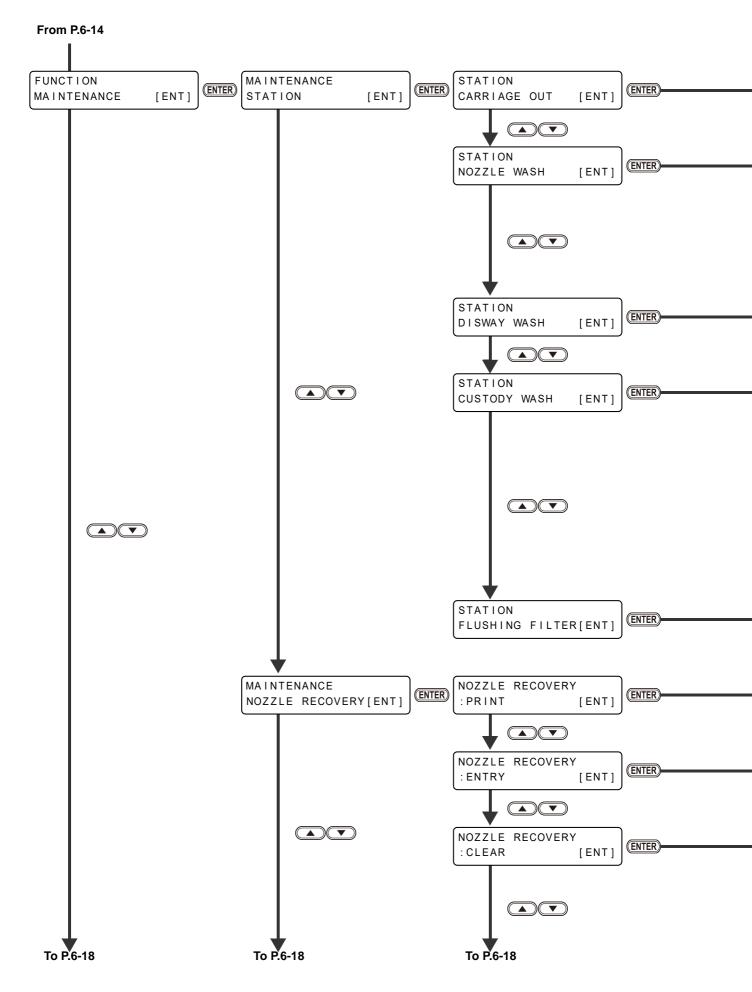
When the toggle print function is enabled

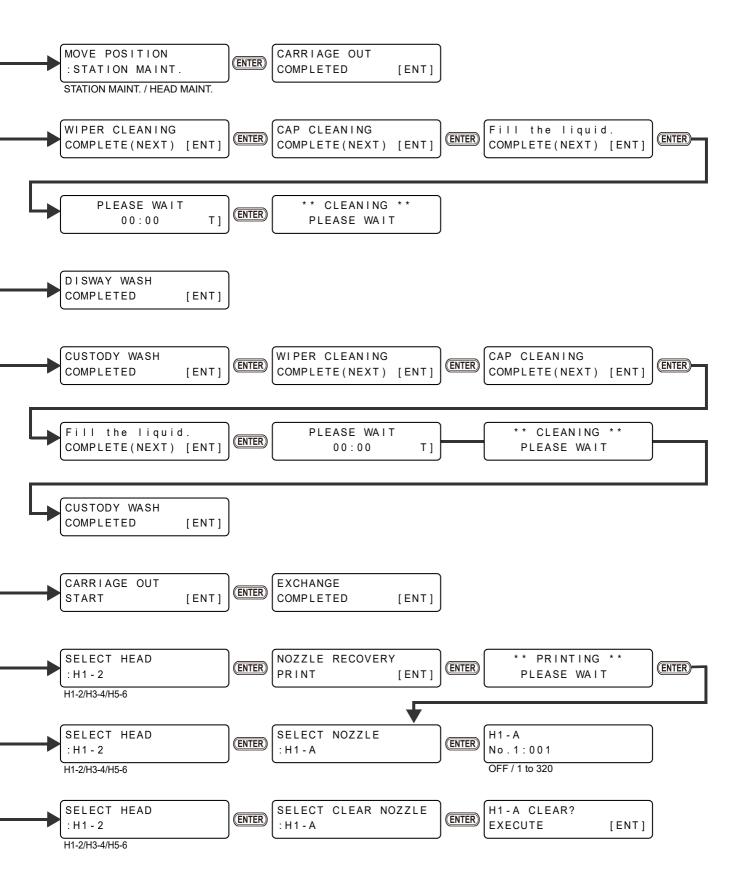


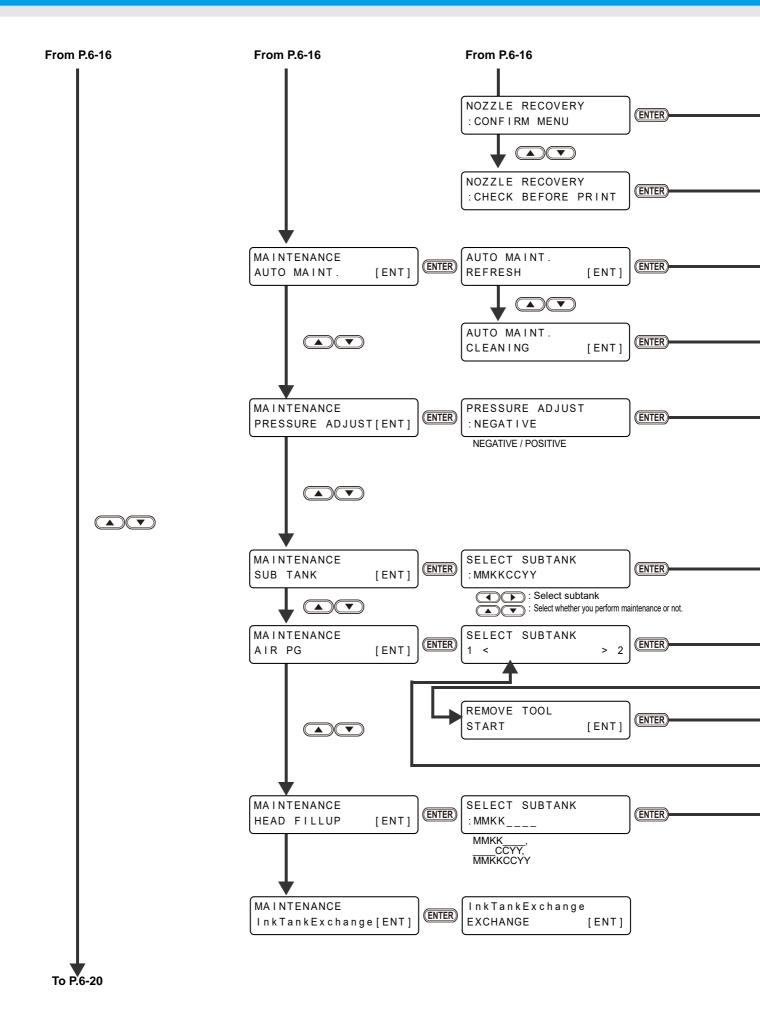


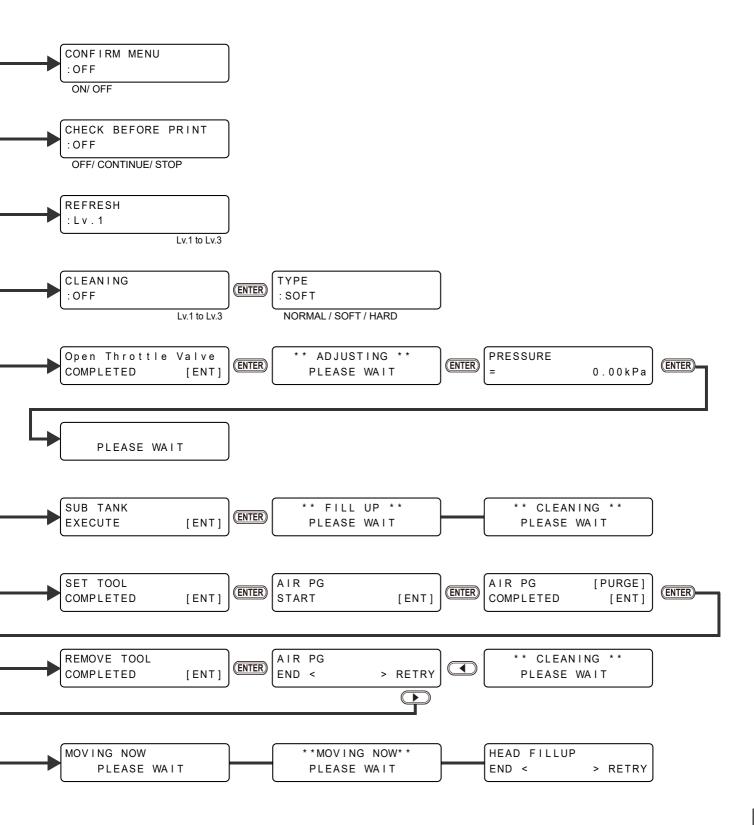




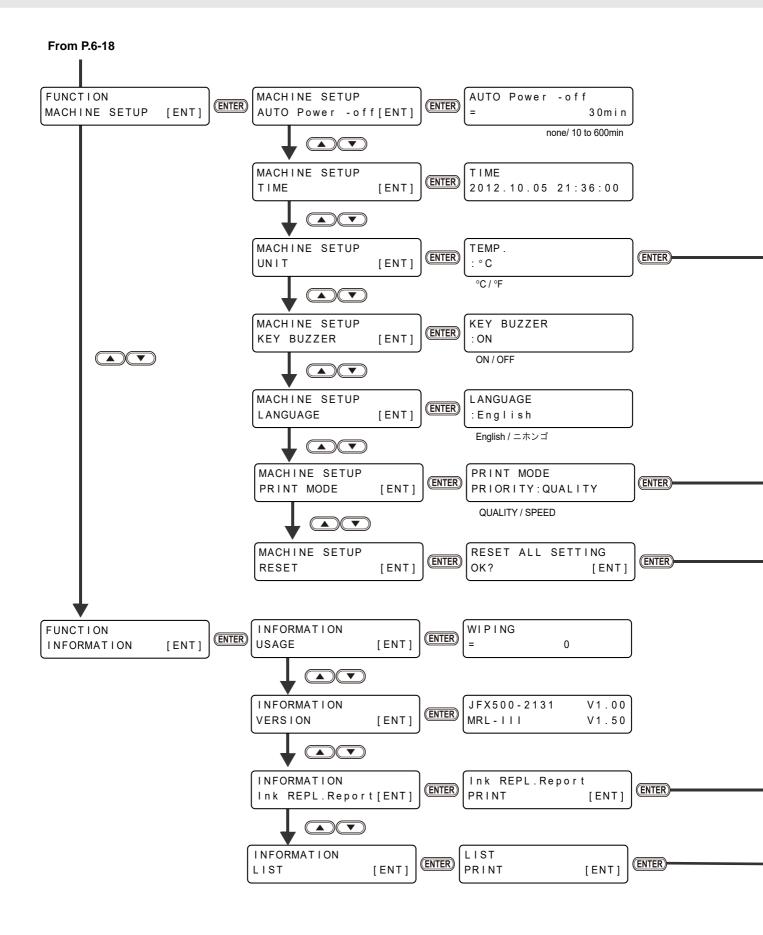


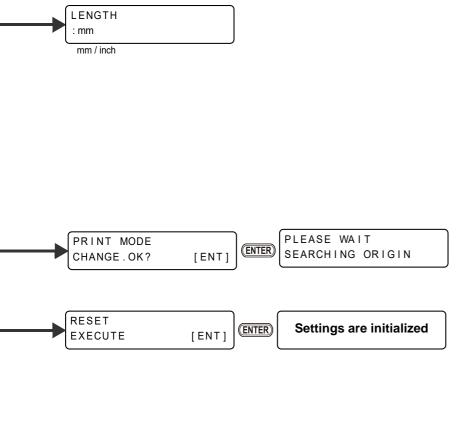






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PLEASE WAIT ** PRINTING **

PLEASE WAIT ** PRINTING **

JFX200-2531 Operation Manual

February, 2023

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

D203111-18-21022023

