

# ***UJF-605CII***

**UV INKJET PRINTER**

## ***Daily Care Manual***

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### **Request for daily care**

Inkjet printer is the precision machine that has highly delicate mechanism. Especially, little dust and paper powder may have effect on a head nozzle firing ink, and may not get normal printing.

To use the inkjet printer in good condition, we recommend the following daily care.

### **MIMAKI ENGINEERING CO., LTD.**

TKB Gotenyama Building, 5-9-41, Kitashinagawa, Shinagawa-ku, Tokyo 141-0001, Japan

Phone: +81-3-5420-8671 Fax: +81-3-5420-8687

URL: <http://www.mimaki.co.jp/>

E-mail: [trading@mimaki.co.jp](mailto:trading@mimaki.co.jp)










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## Installation environment and Notes on cleaning

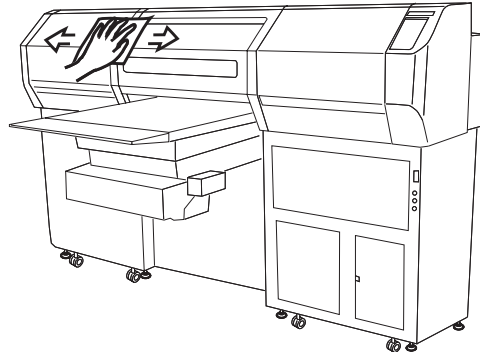
- Use this printer in clean (less dust) environment. The use of fan and ventilator might be cause of dusty environment.  
They brow dust up dust around the printer.
- As using UV curing ink, install this printer in a well-ventilated area.
- Working environmental temperature is 15 to 30°C (59 to 86°F). Avoid using at lower or higher than this.

## Notes on cleaning

	• Never disassemble the device. Disassembling the device can result in electric shock hazards and breakage of the device.
	• Prevent moisture from entering inside the device. If the inner part of the device becomes wet, electric shock hazards and breakage of the device can result.
	• Conduct maintenance works after turning off the power switch and detaching the power cable. If not, unexpected troubles can arise.
	• Make maintenance after the UV lamp has been sufficiently cooled, or burn injury may occur.
	• Do not use benzine, thinner and chemical agents containing abrasives. Such materials can deteriorate or deform the surface of the cover.
	• Do not apply lubricating oil or the like inside the device. Such materials can cause the printer mechanism to fail.
	• UJF-605C is a printer that uses ultraviolet ray curing ink (UV ink).. When implementing the daily care, must wear supplied goggles and gloves.
	
	• In case water or alcohol mixed into the organic solvent ink, flocculation would be occurred. Be sure that not adhere water or alcohol to not only the nozzle and also near the head, the cap, wiper and so on.

## Maintenance for frame components


If the frame components of the device have stained, dampen a piece of soft cloth with water or neutral detergent diluted with water, squeeze it and wipe the frame components clean.




# In Case Sefective Printing Is Not Resolved

When the station interior is severely contaminated or defective printing is not resolved after executing the head cleaning function (☞ Operation manual P.2-20).


Clean the suction nozzle and cap using the cleaning kit as follows,  
Washing liquid, Gloves, Cleaning swab, goggles



- When cleaning the ink station and head, be sure to wear the supplied goggle and gloves since you may get ink in your eyes.



- Do not use alcohol or water.



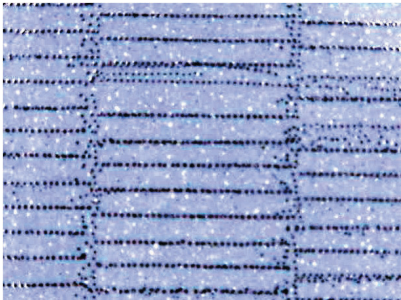
CAUTION

- Do not move the carriage out of the capping station by hand. Use the appropriate operation key to move the carriage.

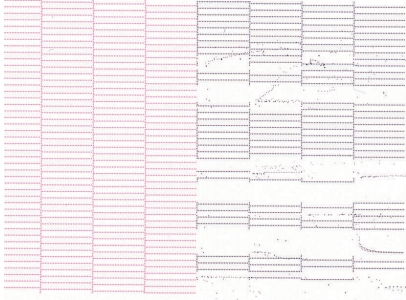
## The examples of defective printing

These following examples indicate improper head (nozzle) firing by dust, which effect printing. Confirm the nozzle condition periodically before or during outputting not to use in such as this condition. The nozzle condition can be confirmed with [test print] in this plotter.

**Deflection**



**Nozzle out**



**Ink dropping**



**Satellite**



## STEP

1. Press the [FUNCTION] key from the LOCAL mode.

<< LOCAL >>

FUNCTION  
FUNCTION  
DATA CLEAR < ENT >

2. Press the [▲] and [▼] keys until the display gives the indication [MAINTENANCE].

▲  
FUNCTION  
MAINTENANCE < ENT >  
▼

3. Press the [ENTER] key.

ENTER  
MAINTENANCE  
LIST < ent >

4. Press the [▲] and [▼] keys until the display gives the indication [STATION].

▲  
MAINTENANCE  
STATION < ent >  
▼

5. Press the [ENTER] key.

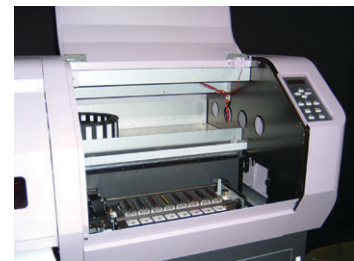
ENTER  
STATION  
CARRIAGE OUT : ent

6. Press the [ENTER] key again.


Carriage moves to the table.

ENTER  
ENTER

7. Open the right maintenance cover.



8. Clean the suction nozzle using the exclusive cleaning swab which is containing washing liquid.



CAUTION

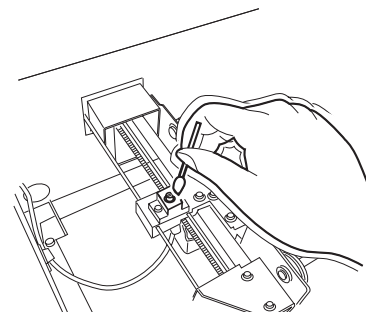
- Carefully clean the suction nozzle.



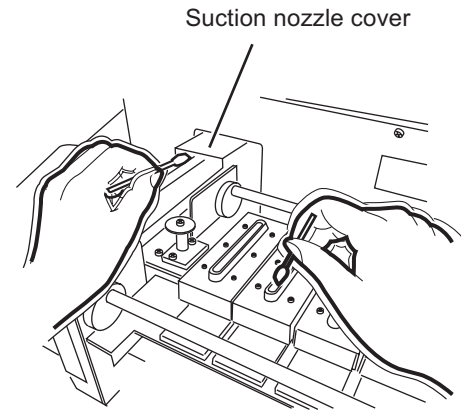
- Suction nozzle severely contaminated or bent should be replaced with a new one. Contact your nearest sales agency or Mimaki sales office.



- Contact your nearest sales agency or Mimaki sales office to order the exclusive cleaning swab.

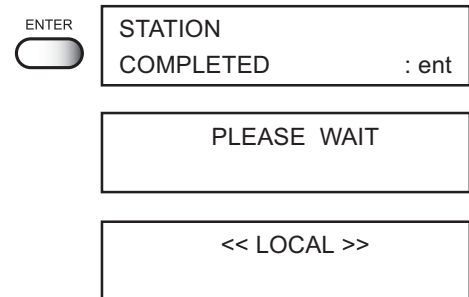


9. Wipe the adherent ink which got on the cap rubber or inside the suction nozzle cover with the exclusive cleaning swab.



10. Close the maintenance cover and then press the [ENTER] key.

The initial operation is performed, then the device enters to the LOCAL mode.



## How to recover improper nozzle firing

When not using this plotter for a long time or according to environmental temperature, nozzle may be unstable in firing.

In the case of this, follow below procedures to recover nozzle.

In case the nozzle doesn't recover after implementing these procedures, contact with our customer service or agency you purchased, and need to replace heads and so on.

1. **Daily care**

Implement all parts noted on this article.

2. **Normal cleaning (☞ Operation manual P.2-20)**

Implement normal cleaning along the instruction manual after daily care above-mentioned.

Repeat cleaning and test printing, and confirm the nozzle still clogging or not.



- In case nozzle clogging is not resolved with all these procedures, contact with our customer service or make service call to the agency you purchased.

## Cleaning Flushing Tray

Wipe off waste ink from the flushing tray.

Tools necessary for cleaning: Washing liquid, Gloves, goggles, paper towel



- When cleaning the ink station and head, be sure to wear the supplied goggle and gloves since you may get ink in your eyes.



- Do not move the carriage out of the capping station by hand. Use the appropriate operation key to move the carriage.
- Make sure to remove the waste ink in the flushing tray frequently. Otherwise the waste ink dried out solidly under the UV light and may not remove.

### STEP

1. Press the [FUNCTION] key from the LOCAL mode.

<< LOCAL >>

FUNCTION



FUNCTION  
DATA CLEAR < ENT >

2. Press the [▲] and [▼] keys until the display gives the indication [MAINTENANCE].



FUNCTION  
MAINTENANCE < ENT >

3. Press the [ENTER] key.

ENTER



MAINTENANCE  
LIST < ent >

4. Press the [▲] and [▼] keys until the display gives the indication [STATION].



MAINTENANCE  
STATION < ent >

5. Press the [ENTER] key.

ENTER



STATION  
CARRIAGE OUT : ent

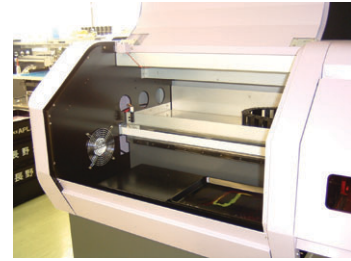
6. Press the [ENTER] key.  
Carriage moves to the table.

ENTER





7. Open the left maintenance cover.



8. Wipe off the waste ink from the flushing tray with the paper towel containing washing liquid. Take the caked ink off by patting the tray.



- Make sure to take the caked ink off completely, or it may cause head damage by the remaining caked ink. The UV ink dried out solidly under the UV light. In case unable to get rid of the caked ink, the tray should be replaced with a new one. Please contact your local dealer for purchasing a new tray.

9. Close the station cover and then press the [ENTER] key.

The initial operation is performed, then the device enters to the LOCAL mode.



STATION  
COMPLETED : ent

PLEASE WAIT

<< LOCAL >>

## When The Waste Ink Tank Becomes Full

Waste ink used for cleaning the heads will gather in the waste ink tank.



- Contact your local MIMAKI distributor or call a local MIMAKI office if you need a spare waste ink tank.
- Prepare a polyethylene tank for emptying waste ink.



- If ink is dripping, wait until it stops dripping.

When the tank is filled with waste ink, the following error message is indicated:

! INK TANK  
WASTE TANK FULL

### STEP

1. **Open the waste ink tank box cover.**
2. **Pull out the waste ink tank while pressing it downward.**



CAUTION

- When pulling out the waste ink tank, hold the opening of the waste ink tank with paper and then slowly pull it out to prevent waste ink from spattering.
- Before replacing ink, put paper on the floor to prevent it from being stained with ink.



3. **Dump waste ink into a separate polyethylene tank.**



- Discard the waste ink according to the local regulations of the area this unit is used.

4. **Put the empty waste ink tank back into the device.**

Close the Waste ink box cover.



CAUTION

- To avoid hurt hands at the corner of the tank cover, be careful to set the tank.

5. **Press the [ENTER] key to complete the procedure.**

The device enters to the LOCAL mode.



WASTE TANK  
TANK READY :ent

<< LOCAL >>

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## Replacing Water In Water Heater Tank

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In order to keep the ink at an appropriate temperature, operate the water heater. Supply antifreezing liquid and water to the hot-water tank in the water heater.

### Precautions for replacing or exchanging



- Water cannot be added.
- Be sure to use Soft water for replacing or exchanging.
- Soft Water and antifreezing liquid compound ratio should be 2 (Soft water) : 1 ( Antifreezing liquid). When performing complement or replacement later, make a compound liquid in same proporion of 2 : 1.
- When only Soft Water is supplied to the hot-water tank without antifreezing liquid, it may damage the head.
- Check the water heater once a half year for the water level required and cleanliness inside the hot-water tank.
- If Soft Water in the hot-water tank frequently becomes insufficient, contact your nearest sales agency or Mimaki sales office.
- Discard the waste water mixed with Anti-freezing liquid according to the local regulations of the area this unit is used.



### Precautions in handling the Anti-freezing liquid



- Be sure to wear goggles and gloves for handling the Anti-freezing liquid.



- Use the exclusive Anti-freezing liquid by Mimaki , or the heater may be damaged.
- If the Anti-freezing liquid gets on the skin or clothes, immediately wash it off with soap. If you gets the Anti-freezing liquid in your eyes, immediately wash your eyes with a lot of clean water. Then, consult a doctor as soon as possible.
- 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.
- When unused the Anti-freezing liquid, entrust them to an industrial waste disposal contractor, clarifying their contents.
- Before using the Anti-freezing liquid, be sure to read the Material Safety Data Sheet (MSDS).



- When purchasing a hot-water tank for spare, contact your nearest sales agency or Mimaki sales office.
- Prepare a polyethylene tank for moving waste the water from hot-water tank.
- When water in the hot-water tank is insufficient, the error message shown below is indicated. In this case, replace water.

ERROR 70 WATER LACK
------------------------

## Replacing antifreezing liquid

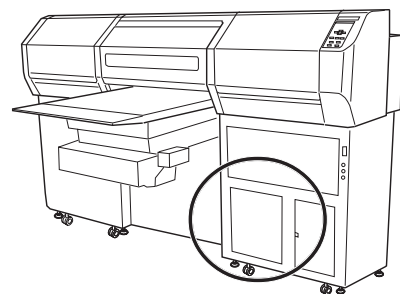
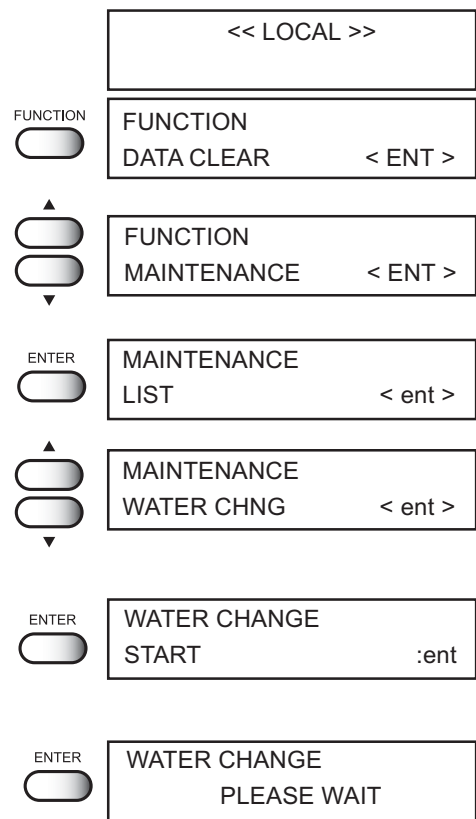
1. Press the [FUNCTION] key from the LOCAL mode.
2. Press the [▲]XYnd [▼] keys until the display gives the indication [MAINTENANCE].
3. Press the [ENTER] key.
4. Press the [▲] and [▼] keys until the display gives the indication [WATER CHNGE].
5. Press the [ENTER] key.
6. Start cooling down for the water heater after pressing the [ENTER] key.



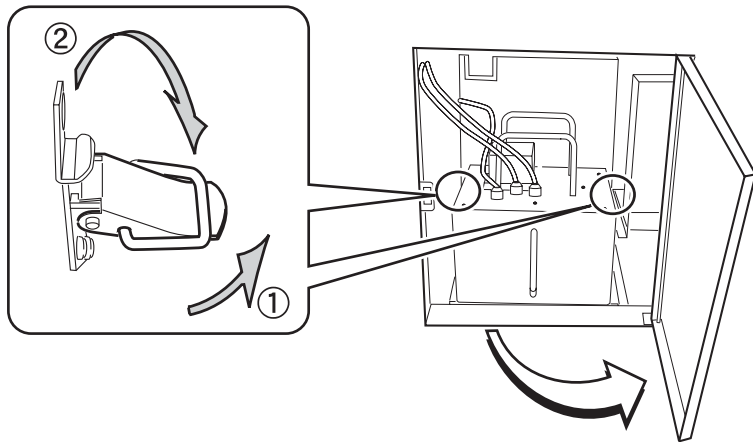
CAUTION

- Do not touch the water heater until [WASTE AF] is displayed to avoid from burn injury. In case using the device before the water heater replacement, it may take approx. 20minutes until [WASTE AF] is displayed.


7. Press the [ENTER] key when the [WASTE AF] is displayed.
8. Open the water heater cover.



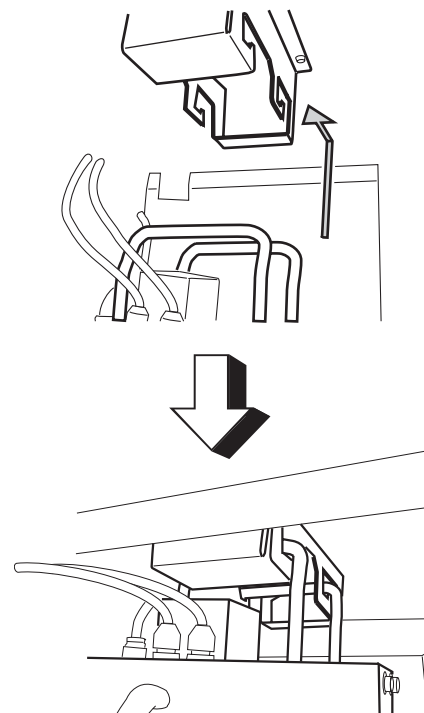
**9. Unlock catch clips on both sides of the cover.**




**10. Engage the water heater handle with the hook.**

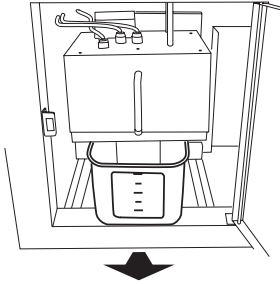
 CAUTION

- When engaging the handle with the hook, take care to avoid bending the cables or tubes or pulling them with excessive force, or it may cause malfunction of the water heater.





**11. Remove the water heater tank.**

 • When moving water, take care not to spill it. If spilled, be sure to wipe it off.



**12. Move waste water in the hot-water tank to a polyethylene tank.**

 • When moving water, take care not to spill it. If spilled, be sure to wipe it off.

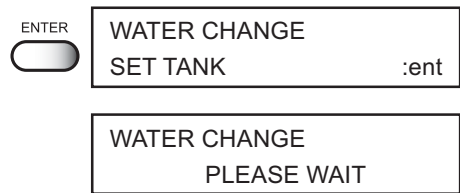
 • Discard the waste water from the hot-water tank according to the local regulations of the area this unit is used.

**13. Set the empty hot-water tank into the water heater.**

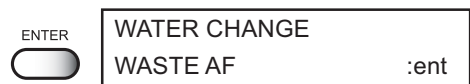
**14. Lock the catch clips and close the cover.**

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

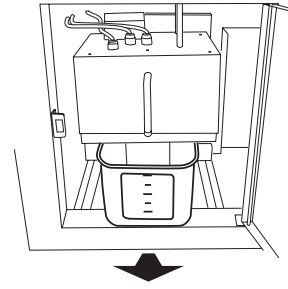
Discharge of the anti freezing liquid in the device is started.




**16. Press the [ENTER] key when the [WASTE AF] is displayed.**




**17. Open the water heater cover again and then remove the water heater tank.**



**18. Again, move waste water in the hot-water tank to a polyethylene tank.**


 **CAUTION**

- When moving water, take care not to spill it. If spilled, be sure to wipe it off.



- Discard the waste water from the hot-water tank according to the local regulations of the area this unit is used.

**19. Wash the hot-water tank.**


 **CAUTION**

- If neutral detergent is used for washing the tank, sufficiently rinse the tank with water.



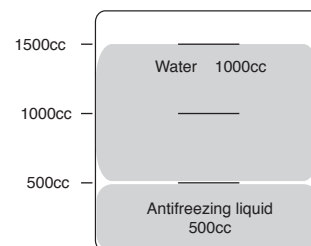
**20. Supply soft water and antifreezing liquid in the water heater tank.**

Supply 500 cc of antifreezing liquid, followed by 1000 cc of soft water.

 **CAUTION**

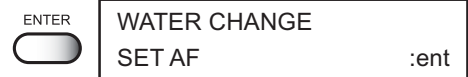
- The optimum volume of soft water is 1000 cc. Do not supply excessive water, or water leakage may occur when closing the water heater cover.

**Ratio of soft water with antifreezing liquid**

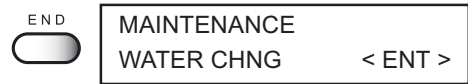


**21. Return the hot-water tank to its original position, lock the catch clips and close the cover.**

22. Press the [ENTER] key.



23. Press the [END] key and the replacement for the water heater was completed.





## Regular Maintenance For White Ink

White ink is easier precipitate than other inks.

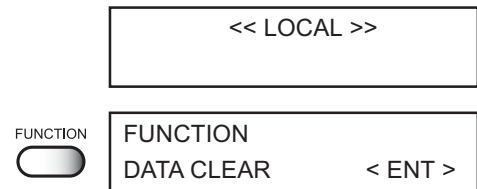
In case without plotting more than two weeks, white ink may cause precipitate in ink cartridge or inside of the device. And nozzle clogging has occurred and the normal plotting result is not able to obtain by precipitation. Make sure to perform regular maintenance to avoid precipitating and to keep good condition for white ink.



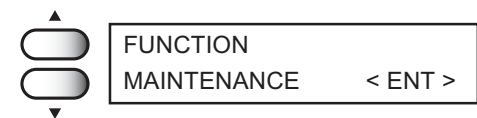
- Use the specified ink.
- Regular maintenance must be done once in a week to avoid having white ink precipitate. Shake the ink cartridge up and down about 10 times slowly.

### STEP

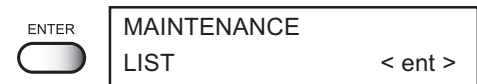
1. Press the [FUNCTION] key from the LOCAL mode.



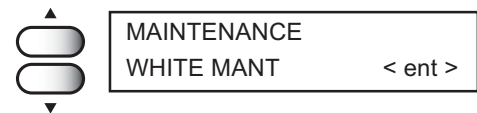
2. Select [MAINTENANCE] by pressing the [▲] and [▼] keys.



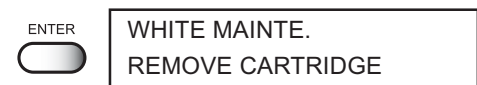
3. Press the [ENTER] key.



4. Select [WHITE MANT] by pressing the [▲] and [▼] keys.



5. Press the [ENTER] key.

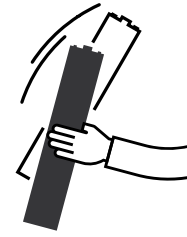


6. Remove White ink cartridge from the ink station.

7. Press the [ENTER] key.



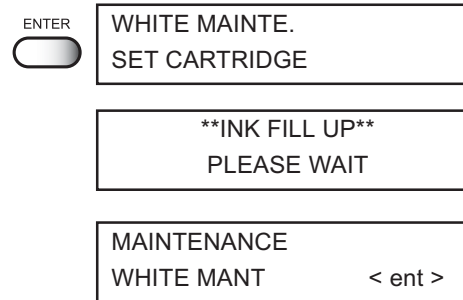
8. Shake the ink cartridge up and down about 10 times slowly.



9. Put the ink cartridge back to the ink station.

10. Press the [ENTER] key and then start [FILL UP INK].

The FILL UP INK was completed.



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## Cleaning Or Replacing Filter

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This unit contains a filter for the table.

When the filter is clogged, the media absorbability will be weakened.

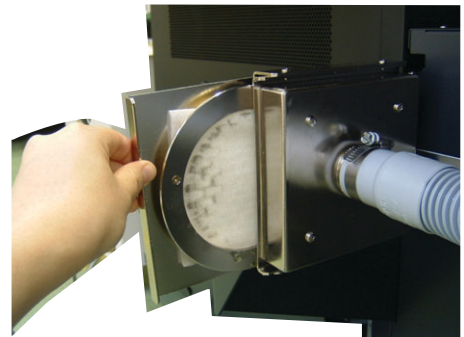
If filter is soiled with dusts, clean it with vacuum cleaner, etc.

If the filter is clogged by ink adhesion, replace the filter.

### STEP

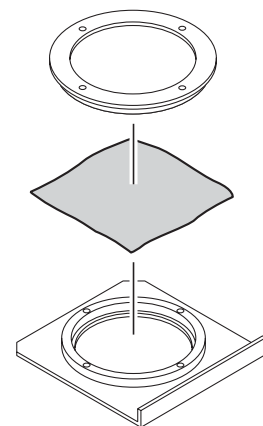
1. Turn the vacuum switch OFF.

2. Remove the filter holder from the filter unit.



3. From the filter holder, remove the filter and replace with a new filter.

Position the filter folded in four and fix it with its all circumference held.



4. Install the filter holder on the filter unit.

Return the filter holder to the filter unit.

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## Cleaning The Undersurface Of The Carriage

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Ink drops may appear on the head guard plate on the undersurface of the carriage, result in inferior printing or ink blot on the media. Make sure to perform cleaning regularly the undersurface of the carriage.

For Cleaning: Washing liquid, Maintenance cleaning liquid, glove, goggles



- Turn off the device before cleaning.
- To avoid burn injury, clean the undersurface of the carriage after the UV irradiation device cools down completely.

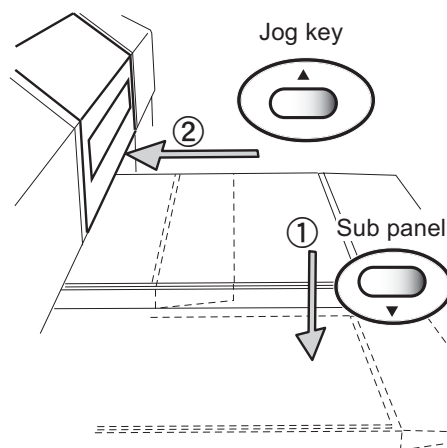
### Steps

1. **Make sure that the LOCAL mode is displayed.**

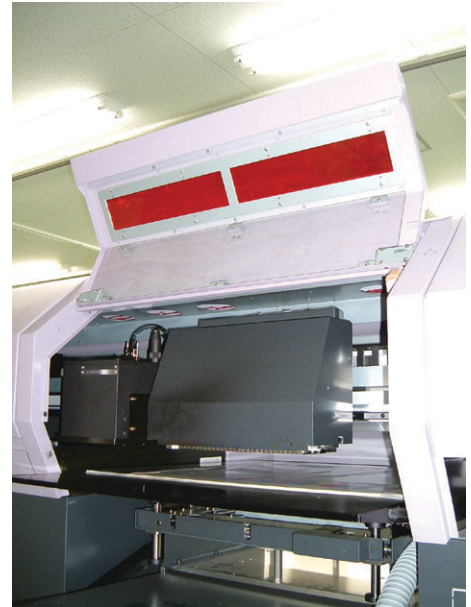
<< LOCAL >>

2. **Press [▼] key on the Sub panel to let the table down.**

3. **Press the [▲] key to move the table to the back side.**



4. Press the [▶] key to move the carriage onto the table.



5. Turn the main device off.

6. Open the front cover.

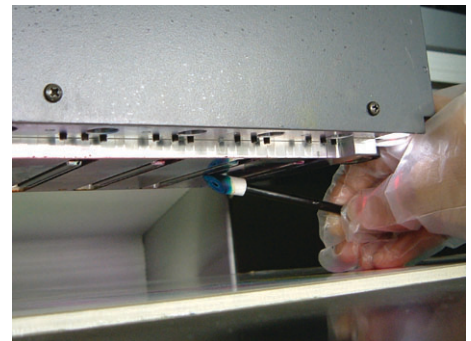
7. Clean the undersurface of the carriage by the side surface of the exclusive cleaning swab which is containing the washing liquid from under the table.



- Do not touch the head and nozzle part to avoid the damage.



- Contact your nearest sales agency or Mimaki sales office to order the exclusive cleaning swab.



8. After cleaning, close the front cover and then turn the main device on.

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## Storage Of Antifreezing Liquid And Washing Liquid

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- Be sure to store the Antifreezing liquid and the washing liquid in a cold and dark place.
- Store the Antifreezing liquid and the washing liquid in a place that is out of the reach of children.

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## Storage Of Media

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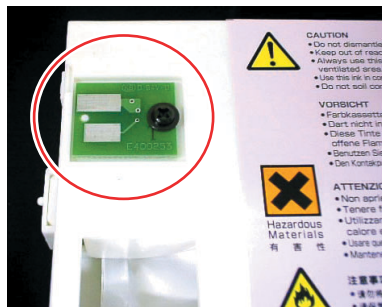
Media should be stored in the little dust area, and not in direct sunlight. Avoid storing the media in the area with high temperature and high humidity.

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## Storage Of Ink Cartridge

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Store the ink cartridge in no direct sunlight, an humidity.As it's a delicate product, do not drop it. The board on an ink cartridge (right picture) should not be contaminated and not discharge static electricity.







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