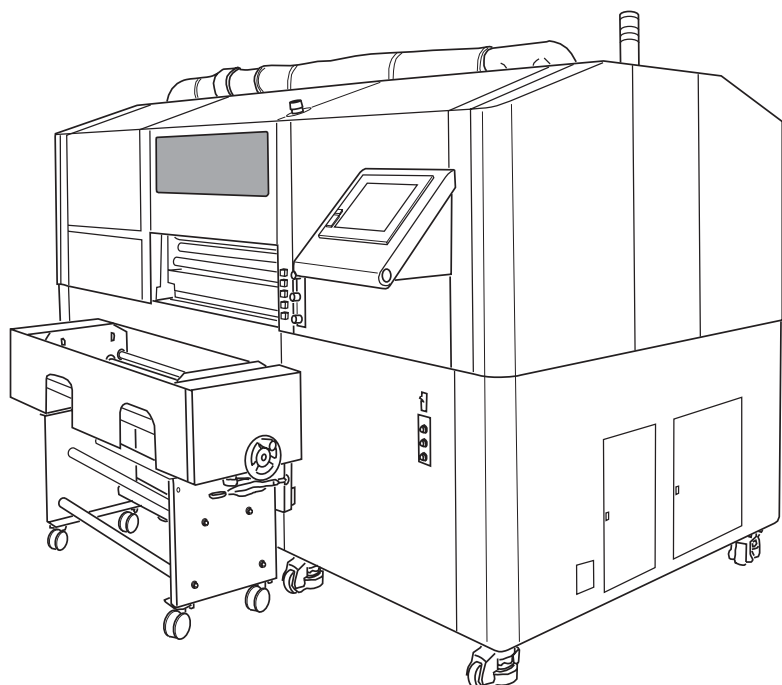


UJF-605RI UV INKJET PRINTER

Daily Care Manual

This inkjet printer is the precision machine that has highly delicate mechanism. Especially, dust and paper powder may have effect on head nozzles 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.

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E-mail: trading@mimaki.co.jp

Category of the Manuals

This printer attaches with the following manuals.

Setup Guide

The above manual describes setting procedure of the printer.

Do not set up the printer by yourself. Setting up should be conducted by your service engineer or the electric contractor.

Operation Manual

The above manual describes operations of the printer and daily maintenance.

Read this manual carefully and fully understand it to use the printer.

Daily Care Manual

The above manual describes daily maintenance to keep the printer in good condition.

This manual
you're reading

Table of Contents










Category of the Manuals	2
Routine Maintenance	4
LOCAL Mode Display	6
In Case Defective Printing is not Resolved	7
Cleaning the Flushing Tray.....	11
When the Waste Ink Tank Becomes Full	13
Replacing the Water for the Water Heater	14
Periodic Maintenance for the White Ink	20
To prevent Ink Drop from Dripping during Printing [CARIG.CLEAN]	22
Storage of the Antifreezing Liquid and the Washing Liquid	26
Storage of Media	26
Storage of the Ink Cartridges	26

Routine Maintenance

About use environment and care

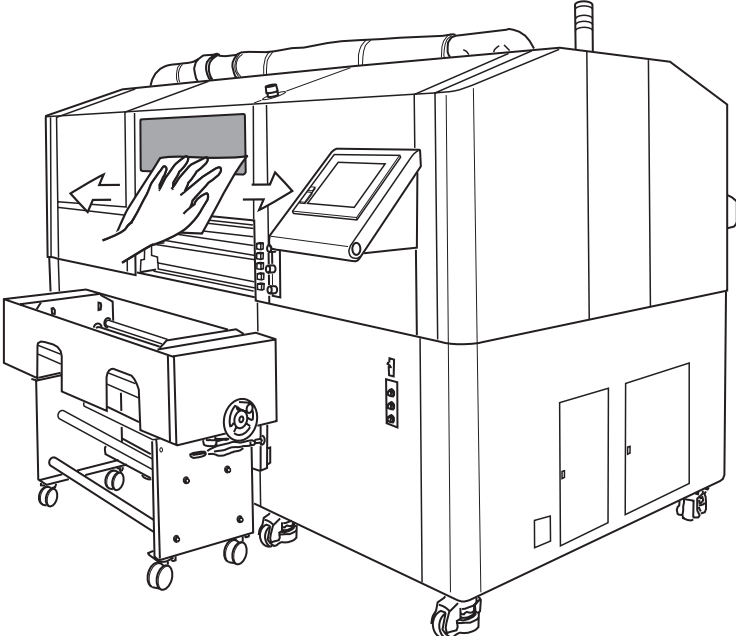
- Use this printer in clean (less dust) environment. The use of a fan and a ventilator might blow up dust around the printer.
- As using UV curing ink, install this printer in a well-ventilated area.
- Working environmental temperature is 15 to 30 °C (59 to 86 °F). Avoid using at lower or higher than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

Cautions during care

	• Never disassemble the printer. Disassembling it causes electric shock and failures of the printer.
	• To prevent electric shock and failures to the printer, do not allow to get inside moisture.
	• Turn off power and detach power cable before doing any maintenance, or unexpected accident may occur.
	• Start maintenance after the UV lamp gets cool completely, or it may cause burn injury.
	• Benzene, thinner and chemical agents containing abrasives can deteriorate or deform the surface of the cover.
	• Do not apply lubricating oil or the like inside the printer. Such materials can cause the printer mechanism to break down.
	• UJF-605R is a printer that uses ultraviolet ray curing ink (UV ink). Make sure to wear the supplied goggles and gloves during daily care.
	
	• When water or alcohol are mixed into the ultraviolet ray curing ink(UV ink), flocculation occurs. Be sure that water or alcohol do not adhere to not only the nozzles but also near the heads, the caps, the suction nozzle and so on.

Maintenance for the exterior and the table

If the exterior of the printer becomes dirty, wipe off the dirt with soft cloth moistened by water or neutral detergent with water and squeezed. Wipe off dust on the table.



LOCAL Mode Display

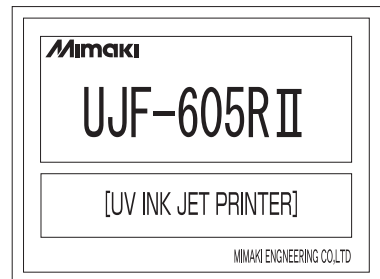
The following describes the LOCAL mode display for each operation.

For maintenance, please enter the LOCAL mode by touching the [Leaf Print] on the touch panel.

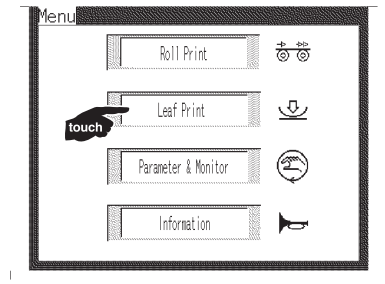
If entering the LOCAL mode by touching the [Roll Print], tension for media may work unnecessarily.

STEPS:

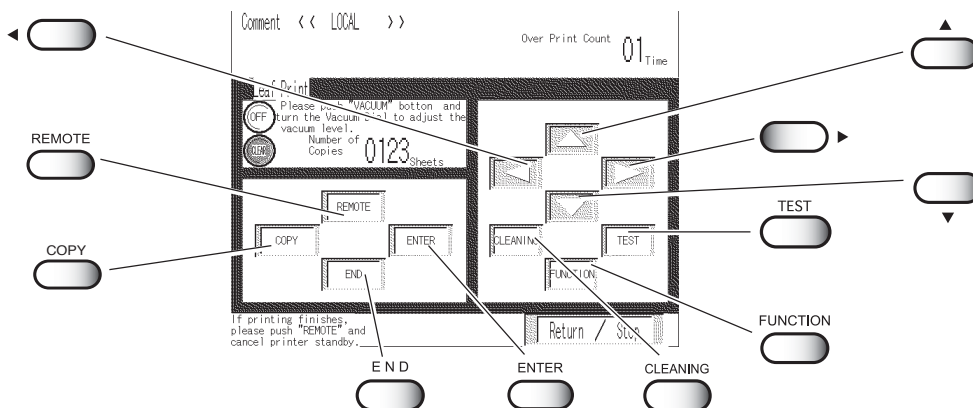
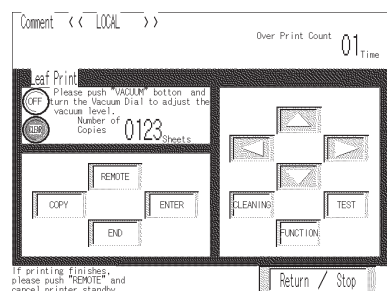
1. Turn on the main power of the printer.
2. The opening screen is displayed.



3. Then, the top menu screen is switched automatically.




4. Touch the [Leaf Print] to display the LOCAL mode for leaf media.




In Case Defective Printing is not Resolved

When the station interior is severely contaminated or defective printing is not resolved by the head cleaning function (☞ Operation Manual P.2-28), clean the suction nozzle and the caps with the cleaning kit as follows:


Washing liquid (SPC-0385), Gloves, Cleaning swab(SPC-0386), Goggles



- When cleaning the station and the heads, be sure to wear the supplied goggles and gloves, or the ink may get in your eyes.



- Do not use alcohol or water.



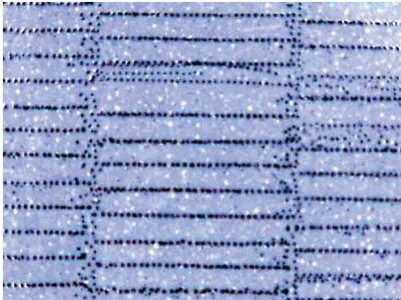
CAUTION

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

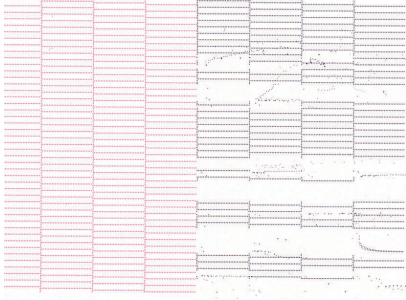
The examples of defective printing

These following examples indicate defective printings by using improper heads(nozzles) caused by dust. Confirm the nozzle condition periodically before or during outputting not to use in these condition. The nozzle condition can be confirmed by [test print] in this printer. (Operation Manual P.2-27)

Deflection



Nozzle out



Ink drooping

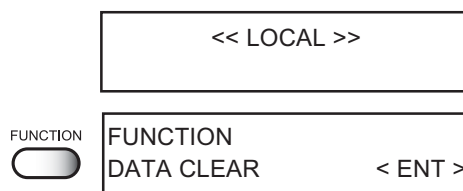


Satellite

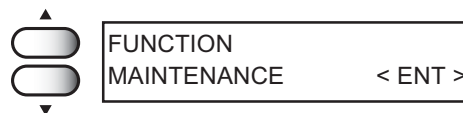


STEPS:

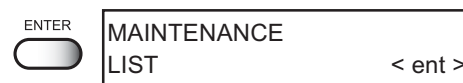
1. Touch the [FUNCTION] on the LOCAL mode screen for leaf media.



2. Touch the JOG [▲] or [▼] to select the [MAINTENANCE].



3. Touch the [ENTER].



4. Touch the JOG [▲] or [▼] to select the [STATION].




5. Touch the [ENTER].



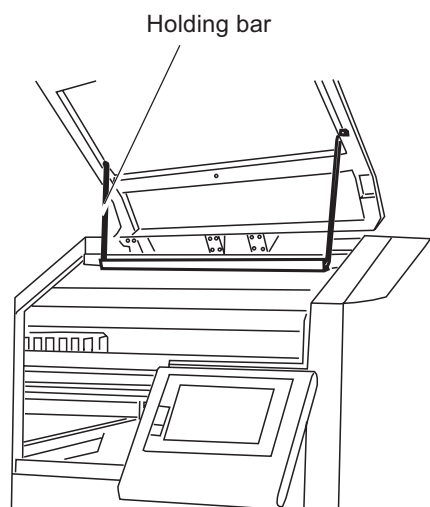
6. Touch the [ENTER].
The carriage moves to the table.




7. Open the right maintenance cover.



• When opening the cover, make sure to hold the cover with the holding bar. Otherwise the cover may fall down and it may cause some injuries.

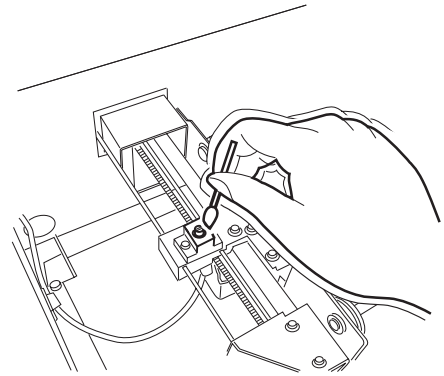


8. Clean the suction nozzle with the exclusive cleaning swab moistened by the washing liquid.

 • Carefully clean the suction nozzle.

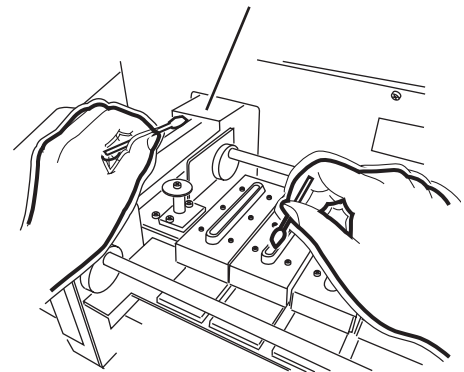


- Replace the suction nozzle that is severely contaminated or bent. Contact your nearest sales agency or MIMAKI sales office.
- Contact your nearest sales agency or Mimaki sales office to order additional cleaning swabs.




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

Suction nozzle cover



10. Close the right maintenance cover and then touch the [ENTER].

The initial operation is performed, then the printer returns to the LOCAL mode.

ENTER 

STATION COMPLETED	: ent
PLEASE WAIT	
<< LOCAL >>	

How to recover improper nozzle firing

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

In this case, follow procedures below to recover the nozzles.

In case the nozzles do not recover after implementing these procedures, contact with our customer service or the agency you purchased, and need to replace the heads and so on.

1. Daily care

Implement all parts described in this manual.

2. Normal cleaning (☞ Operation Manual P.2-28)

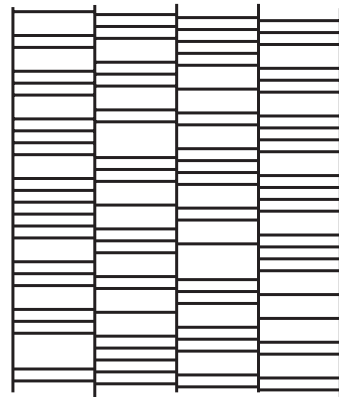
Implement normal cleaning along the operation manual after daily care above-mentioned.

Repeat cleaning and test printing, and confirm the nozzles are not clogging.



- In case nozzle clogging is not recovered in spite of through all these procedures, contact with our customer service or make a service call to the agency you purchased.


Abnormal pattern




Cleaning the Flushing Tray

Wipe off waste ink on the flushing tray.

Cleaning Tools : Washing liquid (SPC-0385), Gloves, Goggles, Paper towel



- Make sure to wear the supplied goggles and gloves, or the ink way get in your eyes.



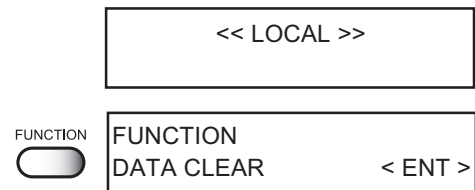
CAUTION

- Do not move the carriage out of the capping station by hand. Use the appropriate operation keys to move the carriage.
- Make sure to remove the waste ink from the flushing tray frequently. Otherwise the waste ink gets hard under the UV light and may not be able to be removed.

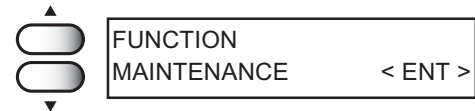
Cleaning the inside station

STEPS:

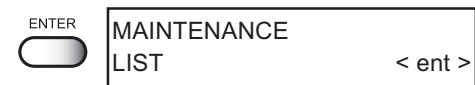
1. Touch the [FUNCTION] on the LOCAL mode screen for leaf media.



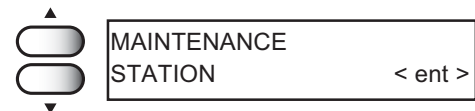
2. Touch the JOG [▲] or [▼] to select the [MAINTENANCE].



3. Touch the [ENTER].



4. Touch the JOG [▲] or [▼] to select the [STATION].



5. Touch the [ENTER].



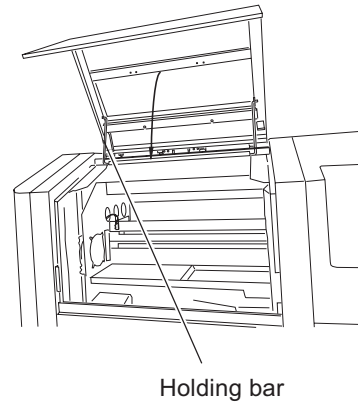
6. Touch the [ENTER].
The carriage moves to the table.



7. Open the left maintenance cover.



- When opening the cover, make sure to hold the cover with the holding bar. Otherwise the cover may fall down and it may cause some injuries.



8. Wipe off the waste ink on the flushing tray with the paper towel moistened by the washing liquid. Also, remove the caked ink by patting the tray with the paper towel.



- If the UV ink gets hard under the UV light and can not be removed, replace the flushing tray. Contact your local dealer or our service office for a replacement.



9. Close the left maintenance cover and then touch the [ENTER].

The initial operation is performed, then the printer returns to the LOCAL mode.



STATION
COMPLETED : ent

PLEASE WAIT

<< LOCAL >>

When the Waste Ink Tank Becomes Full

Waste ink used for cleaning the heads gathers 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 in which to move the waste ink.



- Ink drips during cleaning the heads, so wait until it stops dripping.

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

! INK TANK
WASTE TANK FULL

STEPS:

1. **Open the waste ink tank cover.**

2. **Pull down the waste ink tank and pull it out.**



- When pulling out the waste ink tank, pull it out slowly with paper over the tank opening to prevent the ink from spattering.
- Before replacing the waste ink tank, put paper on the floor to prevent it from staining with ink.



3. **Dump the waste ink into another polyethylene tank.**



- Discard the waste ink by the local regulations of the area in which this unit is used.



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

Close the waste ink tank cover.



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

5. **Touch the [ENTER] to complete the procedure.**

The printer returns to the LOCAL mode.



WASTE TANK
TANK READY :ent

<< LOCAL >>

Replacing the Water for the Water Heater

In order to keep the ink at an appropriate temperature, operate the water heater. Put the antifreezing liquid and water in the water heater tank of the water heater. Make sure to check it every six months.

Cautions for replacing



- Do not add water.
- Ratio of soft water to the antifreezing liquid should be 2 (Soft water) : 1 (Antifreezing liquid) and then replace or exchange it.
- When only soft water is put in the water heater tank without the antifreezing liquid, it may damage the heads.
- Check the water heater every six months to be sure the water heater tank is sufficiently clean and has the appropriate water.
- If the water in the water heater tank frequently becomes insufficient, contact your nearest sales agency or MIMAKI sales office.
- Discard the water/antifreezing liquid mixture by the disposal regulations of the area where the printer is used.



Cautions for handling the antifreezing liquid



- Be sure to wear the goggles and the gloves during handling the antifreezing liquid.



- Use the exclusive antifreezing liquid by MIMAKI , or the water heater may be damaged.
- Don't touch the antifreezing liquid directly. If it gets on the your skin or your clothes, immediately wash it off with soap. If you gets the antifreezing liquid in your eyes, immediately wash your eyes with a lot of running water. Then, contact a doctor as soon as possible.
- Be sure to store the antifreezing liquid in a cold and dark place.
- Store the antifreezing liquid in a place that is out of reach of children.
- Have an industrial waste disposal contractor discard the waste antifreezing liquid, clarifying its contents.
- Before using the antifreezing liquid, be sure to read the Material Safety Data Sheet (MSDS).



- To purchase a space tank, contact your nearest sales agency or MIMAKI sales office.
- Prepare a polyethylene tank to move the waste water heater tank water.
- When the water in the water heater tank is insufficient, an error message is displayed as below. In this case, replace the water by the following steps.

ERROR 70 WATER LACK

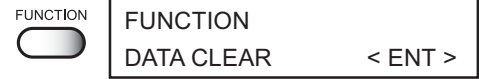
Replacing the antifreezing liquid

STEPS:

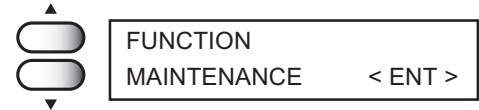
1. Touch the [FUNCTION] on the LOCAL mode screen for leaf media.



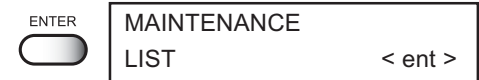
2. Touch the JOG [▲] or [▼] to select the [MAINTENANCE].



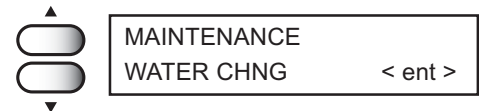
3. Touch the [ENTER].



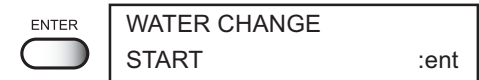
4. Touch the JOG [▲] or [▼] to select the [WATER CHNG].



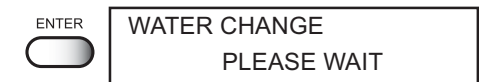
5. Touch the [ENTER].



6. Touch the [ENTER] to start cooling down the water heater.



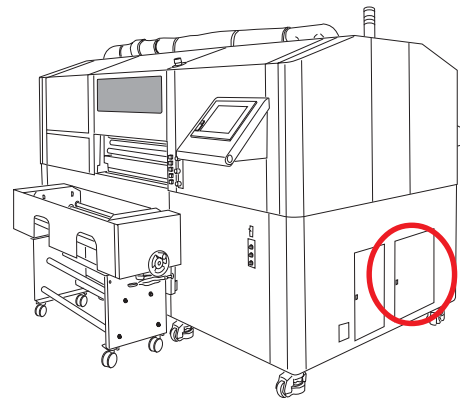
- Do not touch the water heater until [WASTE AF] is displayed to avoid a burn injury. It may take 20 minutes for the [WASTE AF] to be display if the printer has been in use.



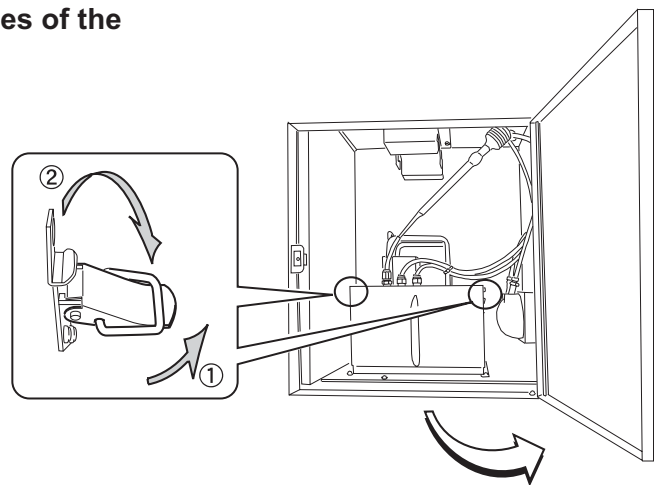
7. Touch the [ENTER] when the [WASTE AF] is displayed.




8. Open the water heater cover.



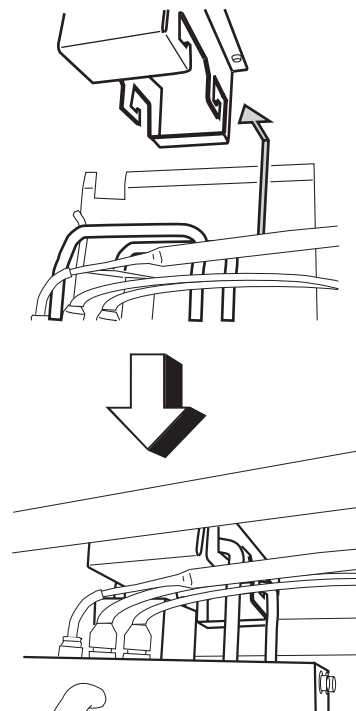
9. Unlock the catch clips on both sides of the water heater tank cover.




10. Hold up the water heater tank cover and engage its handle with the hook.

 CAUTION

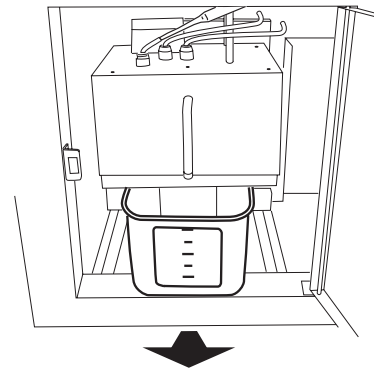
- When engaging the handle with the hook, take care to avoid bending the cables or tubes or pulling them with excessive force, or it may cause failures of the water heater.




11. Remove the water heater tank.

 CAUTION


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



12. Move the waste water in the water heater tank to another polyethylene tank.

 CAUTION

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



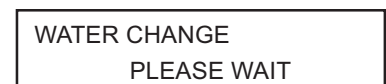
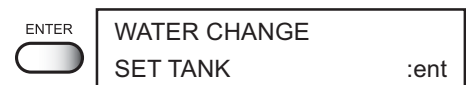
- Discard the waste water by the local regulations of the area where this printer is used.

13. Set the empty water heater tank into the water heater.

14. Lock the catch clips and close the cover.

15. Touch the [ENTER].

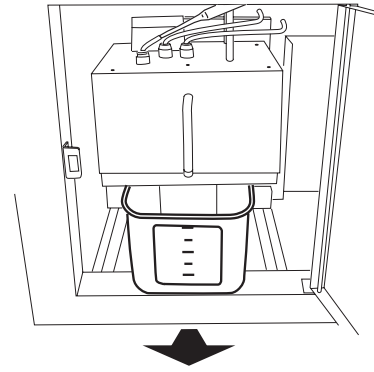
Discharge of the antifreezing liquid in the printer is started.




16. Touch the [ENTER] when the [WASTE AF] is displayed.



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




18. Move the waste water in the water heater tank to the polyethylene tank again.




CAUTION

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



- Discard the waste water by the local regulations of the area this unit is used.

19. Wash the water heater tank.



CAUTION

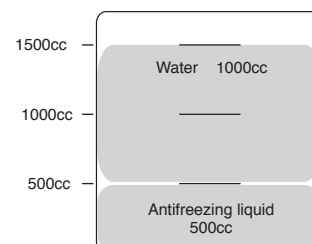
- If a neutral detergent is used for washing the tank, sufficiently rinse the tank with water.



20. Put soft water and the antifreezing liquid in the water heater tank.

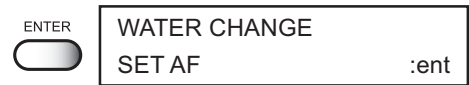
Put 500 cc of the antifreezing liquid, and then add by 1000 cc of soft water.

Ratio of soft water with antifreezing liquid

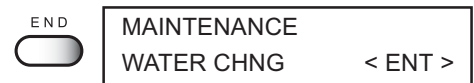


21. Return the water heater tank to its original position, lock the catch clips and close the cover.

22. Touch the [ENTER].



23. Touch the [END] and the replacement for the water is completed.



Periodic Maintenance for the White Ink

It is easy for the white ink to precipitate compared with the other inks.

If you don't print for more than two weeks, the white ink may precipitate in the ink cartridge or the inside of the printer.

If so, this results in nozzle clogging and defective printing.

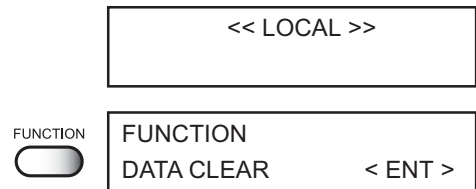
To avoid the precipitation and to keep the white ink in good condition, perform the following maintenance at least once two days.



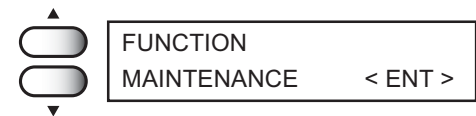
- Use the specified ink cartridge.
- To keep the white ink in good condition, remove the ink cartridge and shake it up and down about 10 times slowly once two days.

STEPS:

1. Touch the [FUNCTION] on the LOCAL mode screen for leaf media.



2. Touch the JOG [▲] or [▼] to select the [MAINTENANCE].



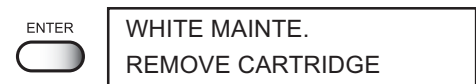
3. Touch the [ENTER].



4. Touch the JOG [▲] or [▼] to select the [WHITE MANT].



5. Touch the [ENTER].



6. Remove the white ink cartridge from the ink station.

- 7. Touch the [ENTER].**
The white ink is discharged.



****DISCHARGE****
PLEASE WAIT

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



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

- 10. Touch the [ENTER] to start ink filling.**
When [WHITE MANT] is displayed, the ink filling is completed.



WHITE MAINT.
SET CARTRIDGE

****INK FILL UP****
PLEASE WAIT

MAINTENANCE
WHITE MANT < ent >

To prevent Ink Drop from Dripping during Printing [CARIG.CLEAN]

Ink drops may appear on the head guard plate of the undersurface of the carriage, which causes defective printing or ink bolts on the media. Make sure to regularly clean the undersurface of the carriage.

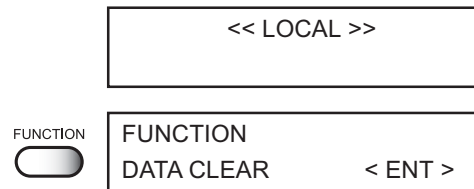
Cleaning Kit : Washing liquid (SPC-0385), Cleaning swab (SPC-0386),
Gloves, Goggles



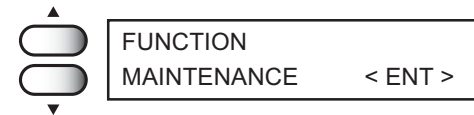
- To avoid burns, clean the undersurface of the carriage after the UV irradiation device cools down completely.

STEPS :

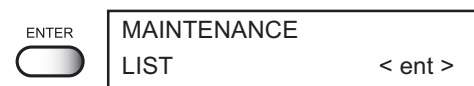
1. Touch the [FUNCTION] on the LOCAL mode screen for leaf media.



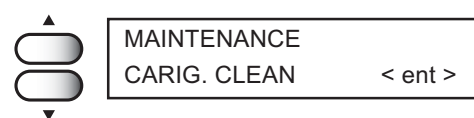
2. Touch the JOG [▲] or [▼] to select the [MAINTENANCE].



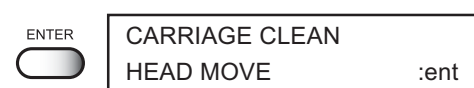
3. Touch the [ENTER].



4. Touch the JOG [▲] or [▼] to select the [CALIG. CLEAN].




5. Touch the [ENTER].
The carriage moves to the maintenance station.



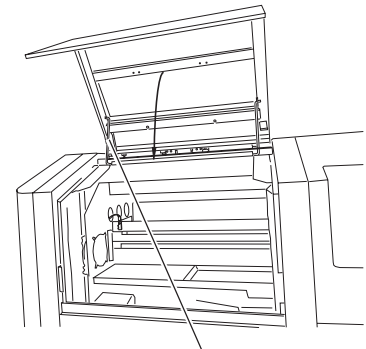
- If UV lamp is lighted, the message which ask you to turn off the UV lamp appears on the LCD. Follow the message.

6. Open the left maintenance cover.

 **CAUTION**

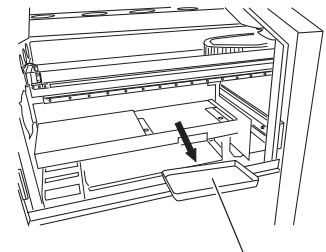
- When opening the cover, make sure to hold the cover with the holding bar. Otherwise the cover may fall down and it may cause some injuries.

PLEASE OPEN
THE LEFT COVER



Holding bar

7. Take off the flushing tray.



Flushing tray

8. Touch the [ENTER].



CARRIAGE CLEAN
REMOVE TRAY : ent

9. Close the left maintenance cover.

PLEASE CLOSE
THE LEFT COVER

10. Touch the [ENTER].

The carriage moves on the flushing tray.

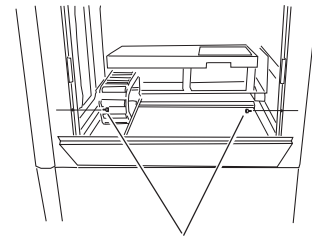


CARRIAGE CLEAN
HEAD MOVE : ent

11. Open the left maintenance cover.


PLEASE OPEN
THE LEFT COVER

12. Remove two white decorated screws which are inside of the left front cover, and then open the left front cover.



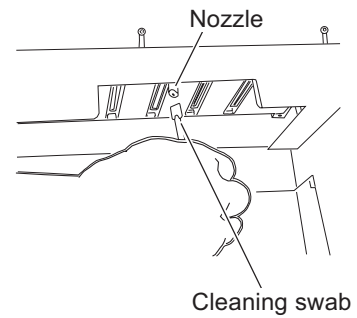
Left front cover fixing decorated screw 2 pcs (inside)

13. Clean the under surface of the carriage by the side surface of the exclusive cleaning swab moistened by the washing liquid.

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



- Contact your nearest sales agency or MIMAKI sales office to order the additional cleaning swabs.



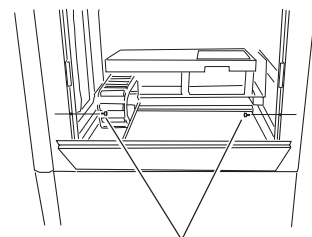
14. After cleaning, touch the [ENTER].



CARRIAGE CLEAN COMPLETED : ent

15. Tighten the screws which is removed in STEP 12, and close the left maintenance cover.

PLEASE CLOSE THE LEFT COVER



Left front cover fixing decorated screw 2 pcs (inside)

16. Touch the [ENTER].
The carriage moves to the maintenance station.

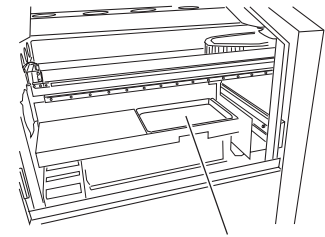


CARRIAGE CLEAN CLEAN FINISH : ent

17. Open the left matinenance cover.

PLEASE OPEN
THE LEFT COVER

18. Mount the flushing tray.



Flushing tray

19. Touch the [ENTER].



CARRIAGE CLEAN
SET A TRAY : ent

20. Close the left matinenance cover.

PLEASE CLOSE
THE LEFT COVER

21. After detecting the origin, the LOCAL mode is displayed.

MAINTENANCE
CARIG. CLEAN < ent >

Storage of the Antifreezing Liquid and the Washing Liquid

- 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 reach of children.

Storage of Media

Store media away from direct sunlight, high temperature, high humidity , and high levels of dust.

Storage of the Ink Cartridges

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





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