

Inkjet printer UJF-7151 plus

Requests for Daily Care and Maintenance

This machine is a precision machine equipped with extremely fine mechanisms. Especially, the nozzle surface of the heads from which the ink is discharged is affected even by a slightest attachment of dust or paper powder and the proper printing results could not be obtained. With a view to using this machine in a better condition, we would like to recommend performing the following care and maintenance on daily basis.

1. When to care

When to care	What to care	Reference Page
Once a day (at the end of the daily work)	Surroundings of the heads	P.2
	Capping station	P.3
Once a week (at the end of the work on weekend)	Exterior	P.4
	Waste ink tank	P.4
	Ink discharge passage	P.5
Once a month	Refill and check the cooling water	P.6



■ Tools required for maintenance

- UJ Cleaning swab (SPC-0386)
- F-200 / LF-200 Washing Liquid (SPC-0568)
- Cotton swab
- Gloves
- Soft fabric



- This printer uses a ultraviolet curable ink (UV ink).
- Make sure to wear the attached **goggles and gloves**.

2. Daily care



- When possible, use the UJ Cleaning swab (SPC-0386) for cleaning around the head/ capping station/ wiper. Using the other cotton bud may attach lint, then it may damage the machine.
- 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.
- 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.

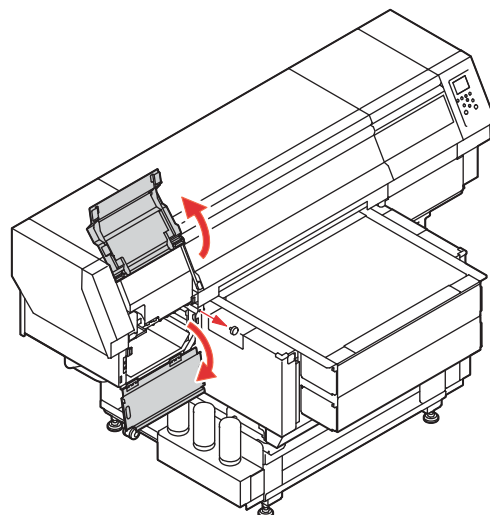
(1) Surroundings of the heads ("Cleaning the Head and the Area around It" Chapter 4 of the Operation Manual)

Important!

- The heads and their surroundings are the parts most liable to be tainted in this machine and if tainted, it could cause adverse effects to the functions of the machine and the results of the printings. Moreover, as the head itself uses very fine mechanisms, sufficient precautions are required for the care and maintenances.

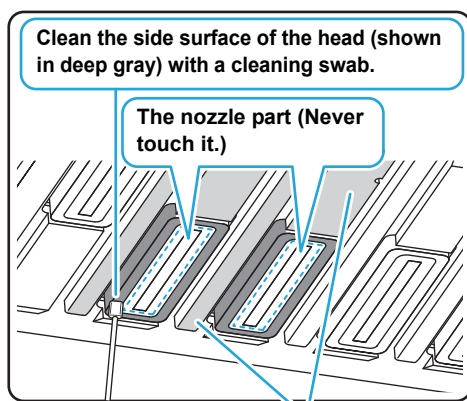
1 Move the carriage to the left and open the maintenance cover.

- Refer to the Step 1 to 5 of Chapter 4 "Cleaning the Head and the Area around It" of the user's manual to perform the operation.

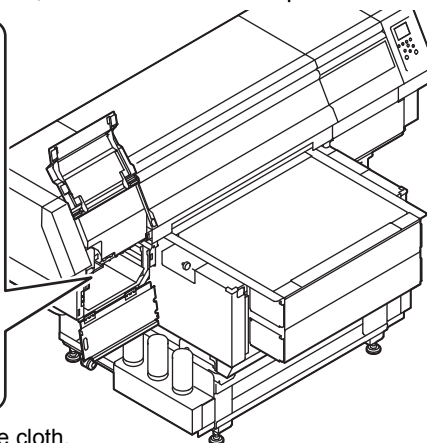


2 Soak the UJ Cleaning swab or the waste cloth in the maintenance cleaning liquid and wipe off an accumulated ink on the side of the head and on the bottom surface of the slider.

- Scrape them off with clean stick etc. In this case, never rub the nozzle portion of the head.



Clean with a cleaning swab or a waste cloth.



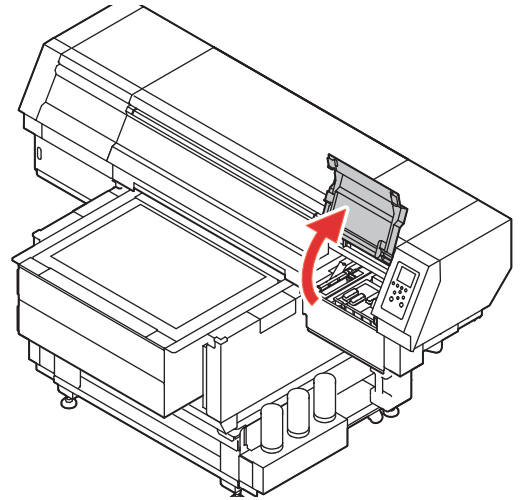
(2) Capping Station ("Cleaning the Wiper and Cap" Chapter 4 of the Operation Manual)

The surrounding area of the cap is also liable to be stained by the dust and ink. It is recommended to clean the head frequently using the cleaning liquid for maintenance suitable for the ink used to avoid the stains on the head.

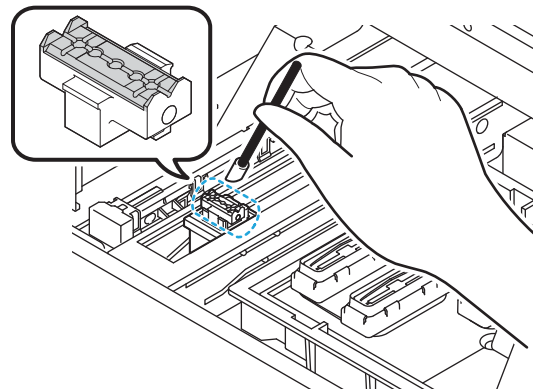
- F-200 / LF-200 Washing Liquid (SPC-0568)

1 Move the carriage and open the right front cover.

- Refer to the Step 1 to 4 of Chapter 4 "Cleaning around the wiper" of the user's manual to perform the operation.

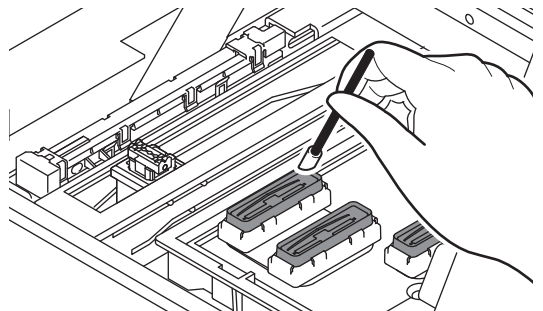


2 Clean the wiper nozzle



3 Clean the cap.

- Dip the UJ Cleaning swab into the cleaning liquid for maintenance and wipe off the cap. Wipe off so that cleaning solution for maintenance will not remain.

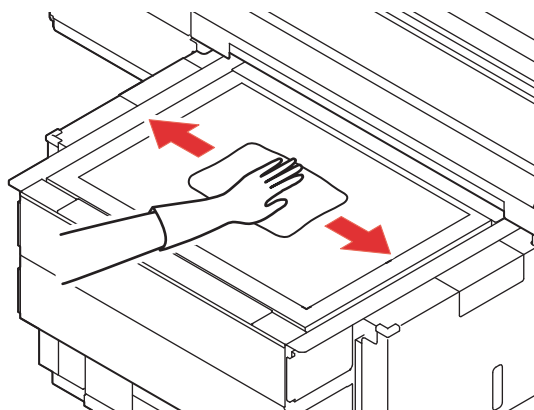
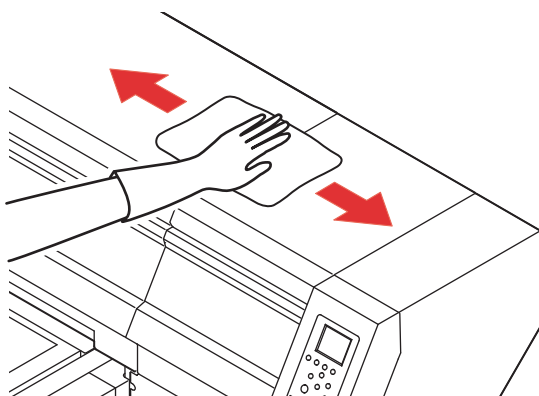


3. Periodically care (Once a week)

Users are advised to perform the maintenance works described below once a week so that the printer will keep its high performance and accuracy over an extended period of its life.

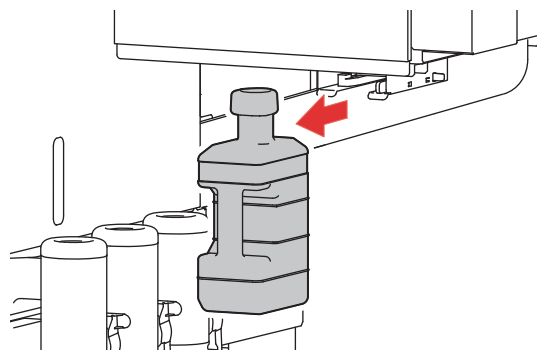
(1) Exterior (“Cleaning the Exterior Surfaces” “Cleaning the table” Chapter 4, Operation Manual)

Depending on the using environment, the dusts or sand powder could stick to the exterior of the main unit. To avoid the entry of the dusts into the moving part of the head, wipe them off with soft cloth dipped into water and squeezed tightly.



(2) Waste ink tank (“If a Waste Ink Tank Confirmation Message Appears” Chapter 4 of the Operation Manual)

Check whether the waste ink tank is full or not. Take care so that the waste ink never overflows the tank.



(3) Ink Discharge Passage (“Washing the Ink Discharge Passage” Chapter 4 of the Operation Manual)

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



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

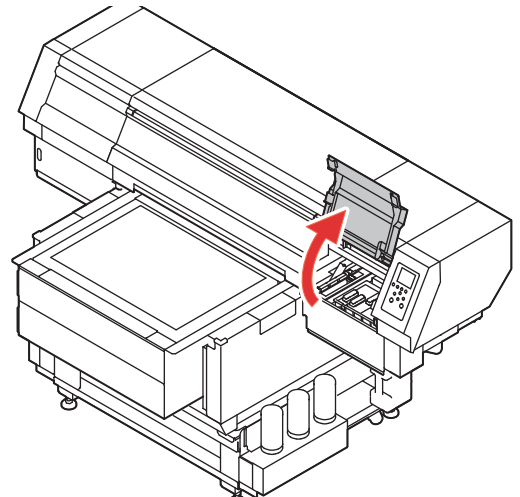
1 Select “MAINTENANCE” menu → “STATION” → “DISWAY WASH”.

- Refer to the Step 1 to 3 of Chapter 4 “Washing the Ink Discharge Passage” of the user’s manual to perform the operation.
- The carriage will move onto the platen.

2 Press key.

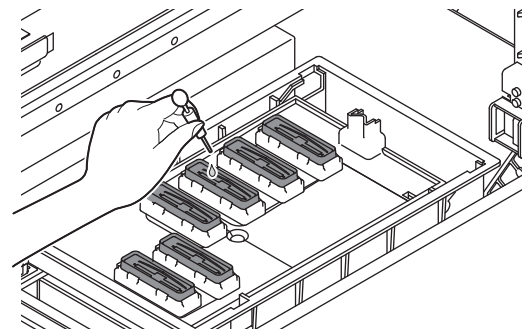
- Dry suction operation is performed repeatedly until the washing work is completed.

3 Open the right front cover.



4 Fill up the cap with cleaning solution for maintenance.

- Suck maintenance solution into a dropper and fill up the cap with it.



5 Press the key.

4. Periodically care (once a month)

(1) Refill and check the antifreeze mixed water (“Refilling antifreeze mixed water” Chapter 4 of the Operation Manual)

It is recommended that check the amount of cooling water about once a month to keep the machine itself in good working order.

When cooling water is a little, refill the cooling water.

5. Storage of media

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.

6. Storage of ink bottle

Be careful of the followings to store.

- Store the ink bottle in no direct sunlight, and no high humidity.
- As it's a delicate product, do not drop it.
- Ink IC should not be contaminated and discharged static electricity.
- Be sure to store the ink bottle and the ink IC together.



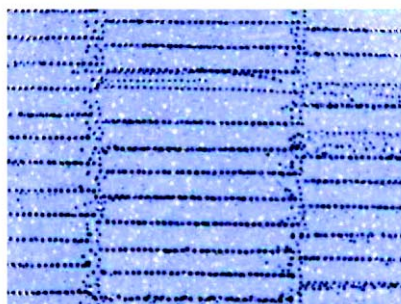
Ink bottle and Ink IC

7. The examples of defective printing

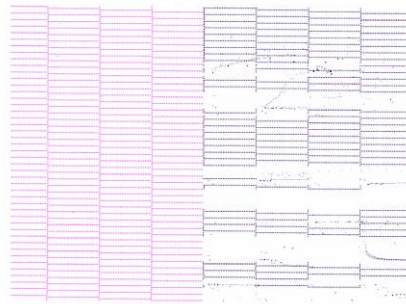
These following examples indicate improper head (nozzle) firing by dust, which effect printing.

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 printing] in this plotter. (Operation manual Chapter 2 “Test Printing”)



Deflection



Nozzle out



Ink dropping



Satellite

8. Recovery method of defective nozzle discharge

When this printer has not been used for an extended period of time, or depending on the environmental temperature, the discharge at the nozzles could become unstable. In such a case, the following methods may be taken to recover the status of the nozzles.

1. Daily maintenance and care

- Perform the cleaning of the parts described in this document.

2. Performing Head Cleaning (normal). Refer to Chapter 2 of Operation Manual.

- After having performed the care and maintenance stated in step 1, perform the cleaning of the heads in accordance with the procedures stated in Operation Manual.

Perform test printing and check
(Chapter 2 of Operation Manual)

In the event nozzle missing etc. have not been improved

3. Performing Head Cleaning (hard). Refer to Chapter 2 of Operation Manual.

- If the nozzle missing does not disappear even after repeating the head cleaning (normal) several times, reset the cleaning mode to "hard" and perform the cleaning again.

Perform test printing and check
(Chapter 2 of Operation Manual)

In the event nozzle missing etc. have not been improved

4. Set the nozzle recovery function. Refer to Chapter 4 of Operation Manual.

- Set the nozzle recovery function.

Perform test printing and check
(Chapter 2 of Operation Manual)

If the nozzle missing has not been improved even with the above operations, please call us or your sales agent from whom you purchased this printer.

9. Supplies

Product Name	Product No.	Product Name	Product No.
F-200 / LF-200 Washing Liquid	SPC-0568	UJ Cleaning swab	SPC-0386
		Wiper nozzle	SPA-0274

10. Safety Precautions

CAUTION



Make sure to wear the attached **goggles and gloves**.



The ink, if mixed with water or alcohol, generates condensed substances. Pay attention not to deposit water or alcohol to the nozzle surface, surrounding area of the heads, caps and wipers.



To secure the stability of the ink discharge, when the printer is not used (output) for an extended period of time, it could become necessary to discharge periodically a small amount of ink (flushing), depending on the kinds of the ink.

When not using for an extended period of time, execute the [CUSTODY WASH] function of this equipment, ("When the Machine Is Not Used for a Long Time (CUSTODY WASH)" Chapter 5 of Operation Manual) and put off the power switch on the front, only. Leave the main power switch at the side of the equipment on and keep the cable socket inserted into the plug.



Make maintenance after the LED UV has been sufficiently cooled, or burn injury may occur.



Never disassemble this machine. It could cause electrical shock, fire and breakage.



Keep away the moisture from the inside of this machine. If the inside is moistened, it could cause electrical shock, fire and breakage.



Perform the maintenance and care after switching off the power and taking off the power cable. Otherwise, it could cause unexpected accidents.



Avoid using benzene, thinner, and chemicals containing abrasive compounds. The surface of the cover could be degenerated or deformed.



Do not supply lubricant oil etc. to the inside this machine. It could cause the breakdown of this machine.

11. Installation environment

- Use this printer as much as possible in a dust-free environment. Fans and air-blowers could cause the dustspewing.
- The using environment of this printer is from 15 to 30°C (59°F to 86°F) in temperature and from 35 to 65 % in relative humidity. Avoid the use of this printer at a temperature and humidity higher or lower than the indicated ranges.

12. Notes for working environment

Performing frequency of the print setting or maintenance is greatly influenced by the printing environment or the condition of the media used. Use this machine with a full understanding of the followings.

Working environment	Consideration
In the gritty and dusty place	<ul style="list-style-type: none"> ▪ To keep the nozzle face clean, set to wipe periodically. (Operation Manual Chapter 4 "Setting Interval wiping") ▪ Change the setting of periodic wiping depending on the amount of dust.
When the head gap is set wide because fibers stick out of media	<ul style="list-style-type: none"> ▪ UV light can expose the nozzle when there is a lot of scattered mist. Raise the refreshing level for drawing (Operation Manual Chapter 3 "Setting of REFRESH"), and set the periodic wiping (Operation Manual Chapter 4 "Setting Interval wiping"). ▪ Increase performing frequency of every maintenance.
When the media that reflects UV light well is used such as glasses or glazed metal	
When there is an infrequentlyused ink (print head)	<ul style="list-style-type: none"> ▪ An infrequently-used print head can be unstable to discharge ink comparing with the other print heads. Raise the refreshing level for drawing (Operation Manual Chapter 3 "Setting of REFRESH") to raise the usage rate of the head.
When printing on the media on which static can be charged	<ul style="list-style-type: none"> ▪ Put humidifiers on to avoid charge. Static may collect mist or dust around the printing area or the head. To print continuously for a long time, set the periodic wiping. (Operation Manual Chapter 4 "Setting Interval wiping")
When printing in a dry place (such as in winter)	
When printing on a markedly uneven media (or object)	<ul style="list-style-type: none"> ▪ To keep the head gap the same, set extra media outside the suction area where a printing media is set. Leaving the head that has been degraded by reflected light may cause failure that needs replacing of the head.

13. Maintenance when needed



A proper maintenance schedule is determined by the operator who observes throughout a period of use of the printer.

- Some media need maintenance every time of printing.
- The maintenance schedule differs depending on the image to be printed. For example, when the image is almost filled, perform maintenance frequently.

(1) Cleaning of the LED UV unit

Remove ink or dust attached to the LED UV periodically.



- Clean the LED UV with care in order not to scratch an irradiation part on the bottom of the unit. If there is a certain amount of dirt or a light shielding object on the irradiation part, ink may not cure well and it may cause banding.

(2) Removal of ink attached to the table

If necessary, remove ink attached to the table with an alcohol-impregnated cloth. Be careful not to scratch the table face when removing cured ink.



Caution when using solvent

- Leaving the table after attachment of ink may make the ink removal hard with alcohol only. When using a special solvent, contact our office before use. It may cause a failure of the machine.

(3) Removal of the vacuum hole clogging on the table

The vacuum holes on the table can be clogged with ink. Remove the ink in the vacuum holes when needed. Be careful not to leave a part of cured ink on the table.

(4) Cleaning of the bottom of the carriage

Remove ink attached to the bottom of the carriage.

(5) Cleaning of the print head nozzle face with a cleaning swab

When an image is printed on a special media, or when this machine is not used for a long time, the nozzle may not be cleaned only with a normal cleaning.

Soak a specified cleaning swab into the washing liquid, and wipe out things adhered on the nozzle face.

Perform this work under the direction of our service engineer.

(6) Maintenance of Optional Ionizer

For the maintenance, refer to Instruction Manual of Ionizer.



You can also download the latest manual from our website.

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