

UV INKJET PRINTER**JF-1631**
JF-1610**Daily Care Manual****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.

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For safe operation

Installation environment and Notes on cleaning

- Use this printer in clean (less dust) environment. The use of fan and ventilator might because 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.



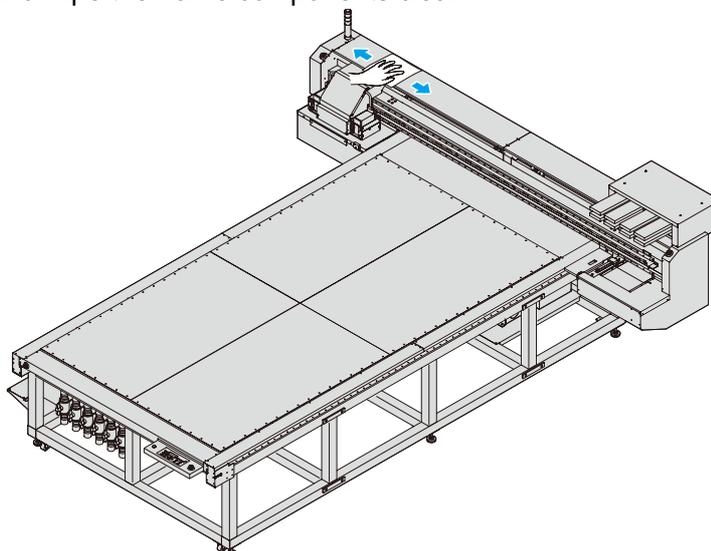
- Do not use benzine, thinner and chemical agents containing abrasives. Such materials can deteriorate or deform the surface of the cover.
- Do not apply lubricating oil or the like inside the device. Such materials can cause the printer mechanism to fail.
- In case water or alcohol mixed into the organic 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.



- JF-1631/1610 is a printer that uses ultraviolet ray curing ink (UV ink).. When implementing the daily care, must wear supplied goggles and gloves.

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 defective printing is not resolved

In the following cases, clean the suction nozzle and cap using the cleaning kit.

- The station interior is severely contaminated.
- Defective printing is not resolved after executing the head cleaning function (☞ Operation Manual P.2-9).

Contents of the cleaning kit	• Maintenance cleaning liquid (SPC-0385)		
	• Gloves	• Cleaning swab (SPC-0384)	• 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.

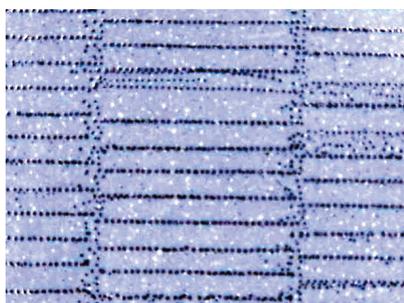


- Do not use alcohol or water.
- If contamination or bending is too severe, replacement of nozzle is required. Ask the service to the dealer or our branch.
- When a new cleaning swab (SPC-0384) is needed, ask the dealer or our branch for new one.

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



Cleaning inside the station

1

Press the **FUNCTION** key in the local mode.

```
FUNCTION
UV LAMP OFF    <ENT>
```

2

Select the **[MAINTENANCE]** by pressing **▲** or **▼** key, and press the **ENTER** key.

```
FUNCTION
MAINTENANCE    <ENT>
```

3

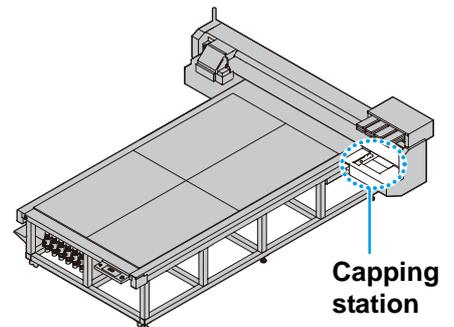
Select the **[STATION]** by pressing **▲** or **▼** key.

```
MAINTENANCE
STATION        <ent>
```

4

Press the **ENTER** key twice.

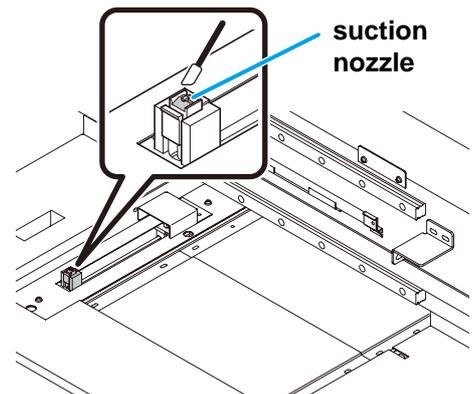
- The carriage moves.



5

Clean the suction nozzle with the exclusive cleaning swab.

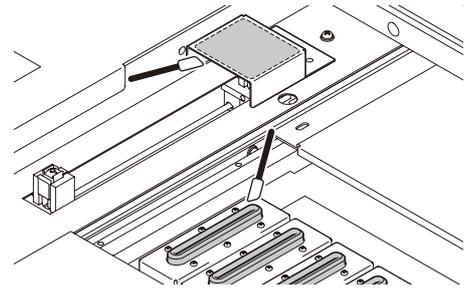
- (1) Soak the exclusive cleaning swab with the maintenance liquid.
- (2) Remove dirt of the suction nozzle carefully.



6

Remove dirt of other parts

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



7

Press the **ENTER** key.

- Initial operation is executed.
- Press the **END** Key to return to Local mode.

STATION
COMPLETED :ent

PLEASE WAIT

STATION
MENT : CARRIGEout

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.2-9)

- 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 rocedures, contact with our customer service or make service call to the agency you purchased.

Cleaning flushing BOX

Replacing waste ink absorption material in the flushing BOX.

Contents of the cleaning kit	• Maintenance cleaning liquid (SPC-0385)		
	• Gloves	• Paper towel	• Goggles



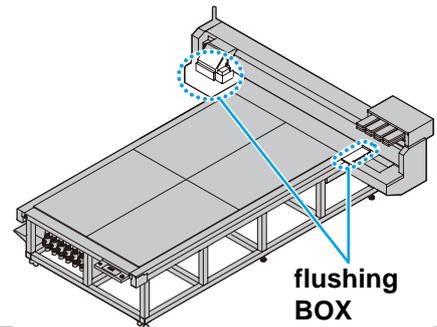
- When conducting the replacing, be sure to wear the supplied goggle and gloves since you may get ink in your eyes.

Cleaning the flushing BOX

1

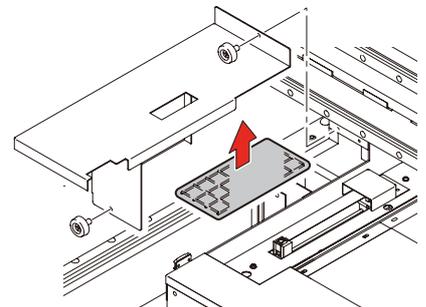
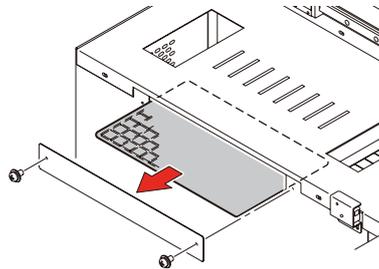
Open the flushing BOX

- The flushing BOXes are both sides of the device.



2

Replace the absorption material in the flushing BOX with a new one



Avoiding dripping of ink droplet at printing

Cleaning of the head guard plate

Ink droplets caused by drawing may appear on a head guard plate on a bottom face of the carriage. As they can cause stain on media by dripping of ink droplets or drawing trouble, conduct cleaning of the bottom face of the carriage periodically.

Articles required for cleaning	• Maintenance cleaning liquid (SPC-0385)		
	• Cleaning Swab (SPC-0384)	• Gloves	• Goggles

1 Press the **FUNCTION** key in the local mode.

```
FUNCTION
UV LAMP OFF    <ENT>
```

2 Select the **[MAINTENANCE]** with pressing the **▲** or **▼** key.

```
FUNCTION
MAINTENANCE   <ENT>
```

3 Press the **ENTER** key.

```
MAINTENANCE
STATION       <ent>
```

4 Press the **ENTER** key.

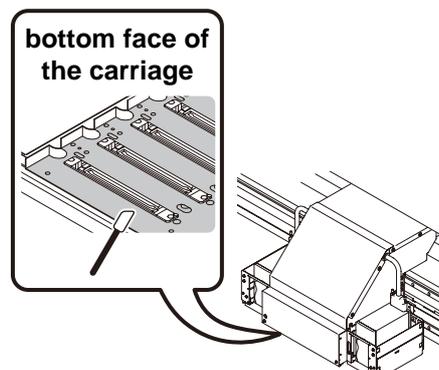
```
STATION
MENT : CARRIAGEout
```

5 Press the **ENTER** key.

- Carriage moves automatically.
- Manual carriage moving is allowed after completion of the moving.

6 Execution of the head guard plate cleaning with moving the carriage manually.

- Conduct cleaning on the bottom surface of the carriage with a cleaning swab soaked in the maintenance cleaning liquid.
- Conduct cleaning on the bottom surface of the carriage with a back part of the cleaning swab.
- Do not touch the head or the nozzle. It can cause breakage.
- When a new cleaning swab is needed, ask the dealer or our branch for new one.



7

Press the  key after completing the cleaning

- Initial operation is executed.
 - Press the  Key to return to Local mode.
-

When the waste ink tank becomes full

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



- Contact the local dealer or call our branch if you need a spare waste ink tank.
- Prepare a polyethylene tank for emptying waste tank.



- If ink is at discharging, such as at head cleaning, conduct the operation after the discharging is completed.
- Take measures for avoiding spattering of waste ink, such as covering an opening of a tank with tissue paper, at handling the waste ink tank.

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

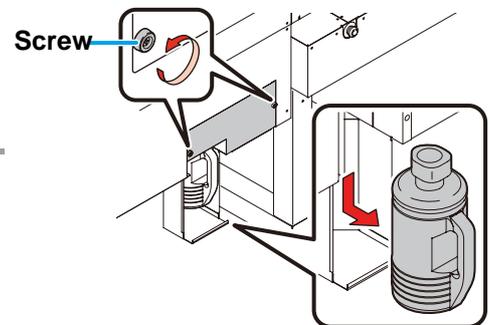
!WASTE INK TANK
WASTE INK TANK FULL

Disposing of waste ink

1

Open the waste ink tank cover.

- Open the cover after removing screws fixing both sides of the cover.



2

Pull out the waste ink tank while pressing it downward.

3

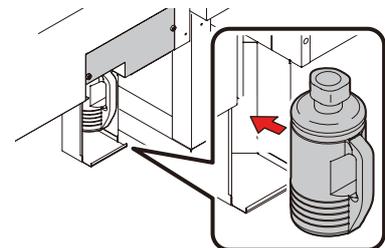
Dispose waste ink into the prepared polyethylene tank.

- Before replacing ink, put paper on the floor. (To prevent the floor from being stained with ink)
- Dispose the waste ink pursuant to the regulations of your district.

4

Set the empty waste ink tank.

- Close the waste ink box cover.
- To avoid hurt hands at the corner of the case, be careful to set the tank.



Regular maintenance for white ink

White ink is easier precipitate than other inks.

- In case without printing more than two weeks, white ink may cause precipitate in ink cartridge or inside of the device.
- When the ink is precipitated, nozzle clogging occurs and normal drawing can not be obtained.
- Make sure to perform periodical maintenance to avoid precipitation and to keep white ink good condition.



- Be sure to perform the following operation at least once a week.
- Use the specified ink cartridge.

1

Press the **FUNCTION** key in the local mode.

```
FUNCTION
UV LAMP OFF    <ENT>
```

2

Select the **[MAINTENANCE]** with pressing the **▲** or **▼** or key.

```
FUNCTION
MAINTENANCE    <ENT>
```

3

Press the **ENTER** key.

```
MAINTENANCE
STATION        <ent>
```

4

Select the **[WHITE MANT]** with pressing the **▲** or **▼** or key.

```
MAINTENANCE
WHITE MANT     <ent>
```

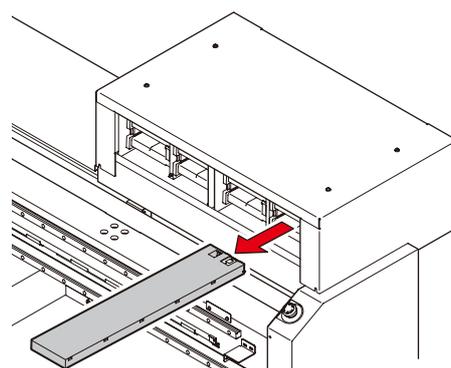
5

Press the **ENTER** key twice.

```
WHITE MANT
REMOVE CARTRIDGE
```

6

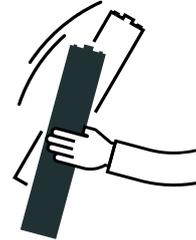
Pull out the white ink cartridge form the ink station.



7**Press the **ENTER** key.**

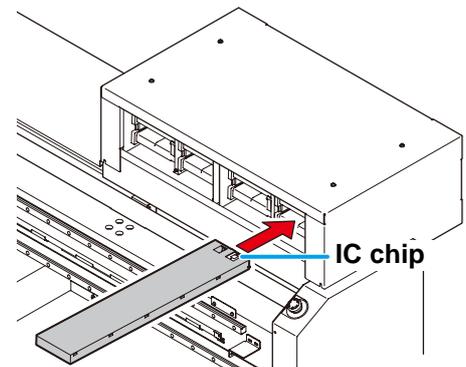
- White ink discharge operation starts.

EMISSION PLEASE WAIT

8**Shake the white ink cartridge up and down about 10 times slowly.****9****When a screen shown in the right is displayed, Return the white cartridge to the ink station.**

- As shown in the drawing, set an ink cartridge turning up a side containing the IC chip.

WHITE MANT SET CARTRIDGE

**10****Press the **ENTER** key.**

- Ink filling starts.
- A message shown in the right is displayed after completion of white ink filling.

FILL UP PLEASE WAIT

MAINTENANCE WHITE MANT <ent>

11**Press the **END** key twice to finish.**

How To Store

Storage Of Antifreezing Liquid And 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 the reach of children.

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.

Storage Of Ink Cartridge

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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