

**UV INKJET PRINTER****UJV-160****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 spraying 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 this machine. Disassembling this machine can result in electric shock hazards or damage to this machine.



- Prevent moisture from entering this machine. Moisture inside the machine can result in electric shock hazards or damage to this machine.



- Before starting maintenance work, be sure to turn off the main power switch and unplug the power cable; otherwise, an unexpected accident may occur.
- Start maintenance work after the UV LED has been sufficiently cooled, or burn injury may occur.



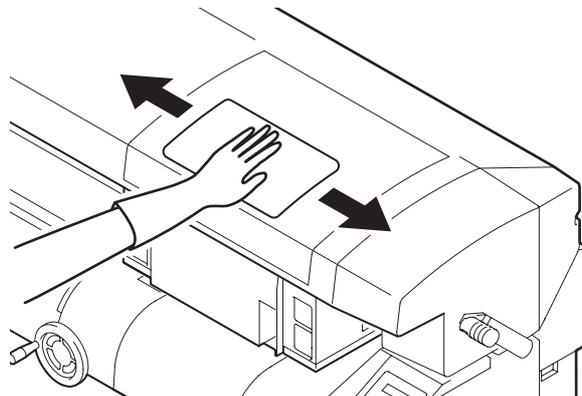
- Do not use benzine, thinner, or any chemical agent containing abrasives. Such materials can deteriorate or deform the surface of the cover.
- Do not apply lubricating oil or the like inside to any part inside this machine. Such materials can cause this machine mechanism to fail.
- In case water or alcohol mixed into the UV curing ink (UV ink), flocculation would be occurred. Be sure not to adhere water or alcohol not only on the nozzle and also near the head.



- This machine uses UV curing ink (UV ink). When in daily care, be sure to put on the supplied goggles and gloves.

## Maintenance for exterior surfaces

If exterior surfaces of the machine is dirty, dampen a soft cloth with water or a neutral detergent diluted with water, squeeze it and wipe the surfaces.



# In case the print does not improve

If the print does not improve after head cleaning (☞ Operation Manual P.2-28), clean the wiper.



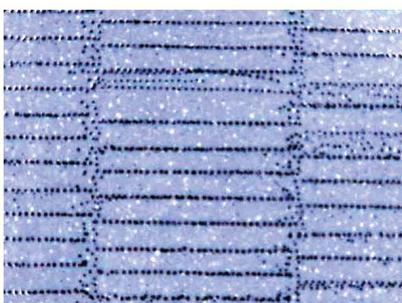
- When cleaning, be sure to put on the supplied goggles and gloves since you may get ink in your eyes.

<b>Tools</b>	• Wiper Sponge (SPC-0578)	• UJ Cleaning swab (SPC-0386)	• Gloves	• Goggles
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## The examples of defective printing

Improper head discharge caused by dust affects the drawing as follows.  
Not to use in this condition, check the nozzle condition periodically before or during drawing.  
The nozzle condition can be confirmed with [test print] of this machine.

**Deflection**



**Nozzle clogging**



**Ink dripping**



**Sprayed ink**



# Wiper cleaning

**1** Turn the power on.

**2** When <LOCAL> is displayed, press the **FUNCTION** key.

<LOCAL . 1>

**3** Select the [MAINTENANCE] with the **▲** **▼** key, and press the **ENTER** key.

FUNCTION  
MAINTENANCE <ENT>

**4** Select the [ST.MAINTENANCE] with the **▲** **▼** key, and press the **ENTER** key.

MAINTENANCE  
ST.MAINTENANCE <ent>

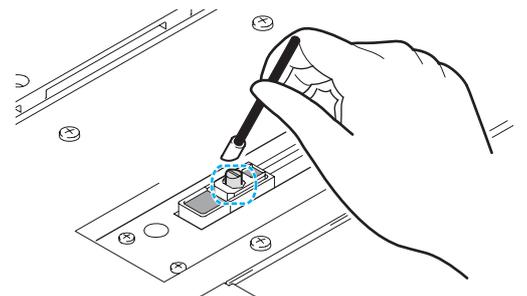
**5** Select the [WIPER CLEAN] with the **▲** **▼** key, and press the **ENTER** key.

ST.MAINTENANCE  
WIPER CLEAN <ent>

- The carriage moves to near the flushing tray on the left.
- The wiper moves to the front.

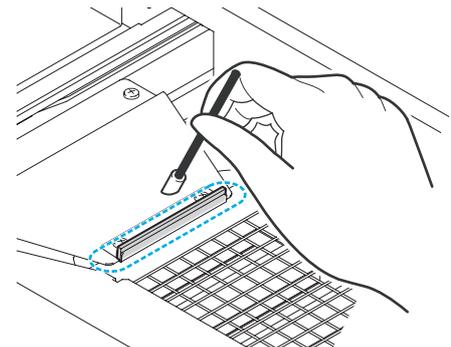
**6** Wipe out the dirt of the wiper with the cleaning swab.

- Wipe the places shown in the right.



**7** Wipe the the dirt of the wiper rubber with the cleaning swab.

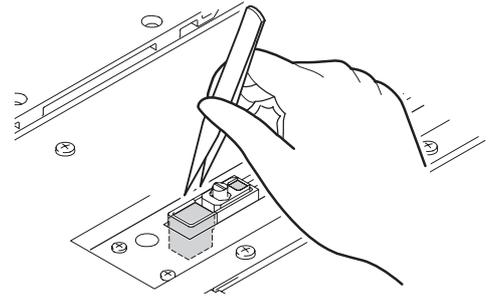
- Wipe the places shown in the right.
- If the dirt is heavy, replace the rubber.



8

**If sponges are dirty, replace the sponge.**

- Remove the sponge with tweezers, then set the provided new sponge.



9

**After cleaning, press the **ENTER** key.**

- Initializing starts.

WIPER CLEAN  
COMPLETED : e n t

10

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

## How to recover improper nozzle discharge

When not using this machine for a long time, or according to environmental temperature, the nozzle may not be stably discharged. In this case, follow the procedures below to recover the nozzle.



- In case the nozzle are still clogged after these operations, contact our customer service or a distributor you purchased, to replace the head or others.

1

**Perform daily care.**

- Perform daily care of the all parts described on this manual.

2

**Clean the head. (  Operation Manual P.2-28)**

- After step 1, perform the head cleaning according to the operation manual.
- Repeat the head cleaning and test printing, then confirm the nozzle is not clogged.

# Cleaning the flushing tray

Replace the flushing filter in the flushing tray once a month.

<b>Contents of the cleaning kit</b>	• F-200 Cleaning kit (SPC-0568)	• Flushing filter (SPC-0577)	
	• Gloves	• Paper towel	• Goggles



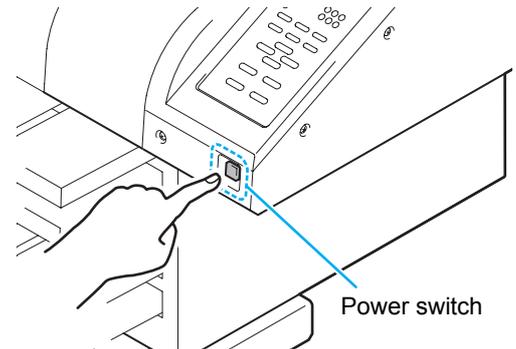
- When replacing, be sure to put on the supplied goggles and gloves, since you may get ink in your eyes.



- Replace the flushing filter (waste ink absorber) about once a month. If it absorbed more than its capacity, ink may overflow.

**1**

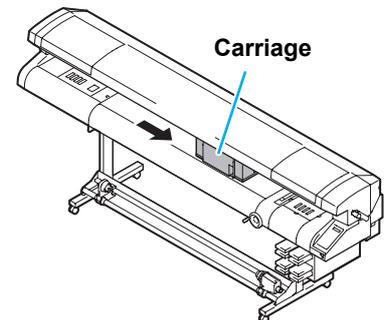
**Turn the power OFF with the power switch.**



**2**

**Move the carriage to the right.**

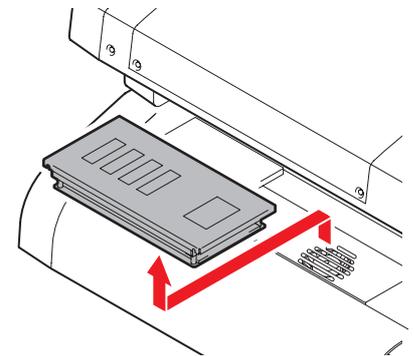
- Move the carriage with the   keys.



**3**

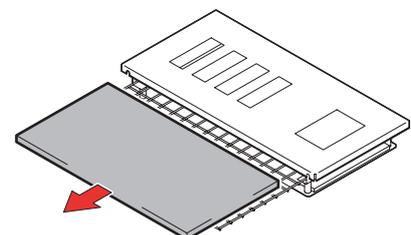
**Remove the flushing tray on the left of this machine.**

- Lift it up to remove.



**4**

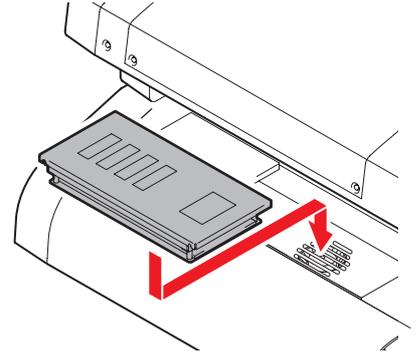
**Replace the filter in the flushing tray with a new one.**



**5**

**Set the flushing tray.**

- Fit the tray into this machine not to be lifted or dislocated.



# Avoiding ink dripping at printing

Ink droplets from the mist at drawing may arise on the bottom of the carriage. As the ink droplets may drip and stain the media or cause blur or dot missing, clean the bottom of the carriage periodically.

Tools	• F-200 Cleaning kit (SPC-0568)		
	• UJ Cleaning swab (SPC-0386)	• Gloves	• Goggles
	• Phillips screwdriver		

1

## Turn the power on.

- After initializing, <LOCAL> is displayed.

2

## Remove the cover and the waste ink tray.

- See P.10 "When the waste ink tray is full".



- When discharging ink for the head cleaning, wait until the discharging is finished, and work.
- Handle the waste ink tray with care not to spill the waste ink in it.

3

## When <LOCAL> is displayed, press the **FUNCTION** key.

<LOCAL . 1>

4

## Select the [MAINTENANCE] with the **▲ ▼** key, and press the **ENTER** key.

FUNCTION  
MAINTENANCE <ENT>

5

## Select the [ST.MAINTENANCE] with the **▲ ▼** key, and press the **ENTER** key.

MAINTENANCE  
ST.MAINTENANCE <ent>

6

## Press the **ENTER** key.

ST.MAINTENANCE  
CARRIAGE OUT <ent>

- The carriage automatically moves from the waiting position (the left side) to near the waste ink tray on the right.
- After moving, move the carriage manually.

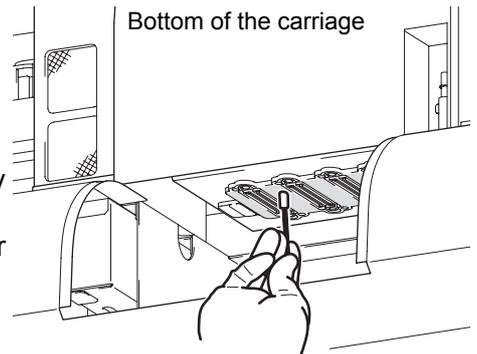
7

## Manually move the carriage onto the waste ink tray on the right.

8

**Dip the cleaning swab into the cleaning solution, and clean the side surface of the head.**

- Do not wipe the nozzle face of the head. It may cause nozzle clogging.
- To buy special cleaning swabs, contact a distributor in your district or our office.



9

**After cleaning, press the **ENTER** key.**

- Initializing starts.

ST . MAINTENANCE  
COMPLETED : e n t

10

**Set the covers and the tray removed at Step 2 and 3.**

- In the reverse order of Step 2 and 3, set the front cover, the waste ink tray, and the waste ink tray cover.

11

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

# When the waste ink tray is full

Waste ink used for head cleaning gathers in the waste ink tray and the wiper tank. Periodically check the wiper tray/tank and when they are full, dispose of the ink.



- If you need a spare waste ink tray/tank, contact a distributor in your district or our office.
- Prepare a polyethylene tank to put in the waste ink.



- When ink is discharging such as for head cleaning, conduct the operation after the discharging is completed.
- Handle the waste ink tray/tank with care not to spill the waste ink.
- Dispose of the waste ink when it has gathered about half of the waste ink tray.

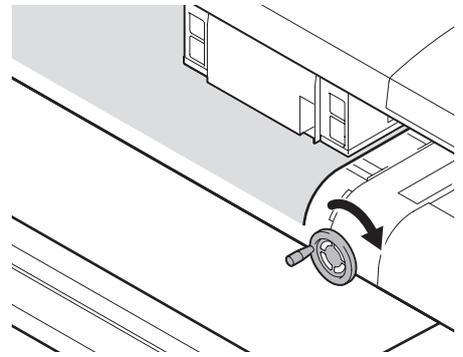
<b>Tools</b>	• Phillips screwdriver	• Gloves	• Goggles
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## Disposing of the ink in the waste ink tray

**1**

### Attach the Y bar handle, and raise the Y bar.

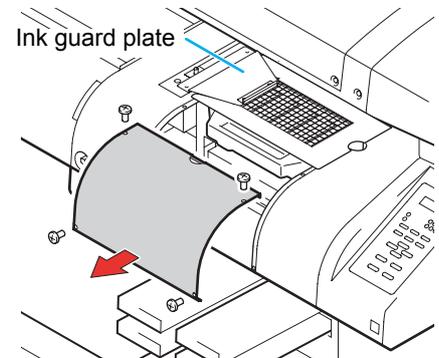
- Turning the Y bar clockwise, raise the Y bar to the top to open the space between the waste ink tray and the ink guard plate.



**2**

### Remove the front cover.

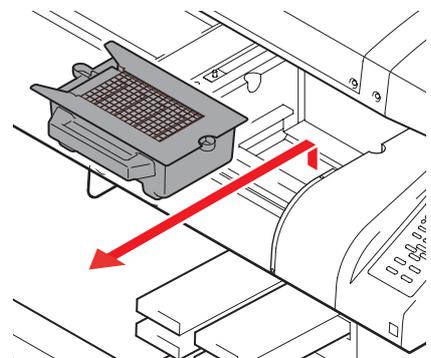
- Remove the 4 screws to remove the cover.



**3**

### Remove the waste ink tray.

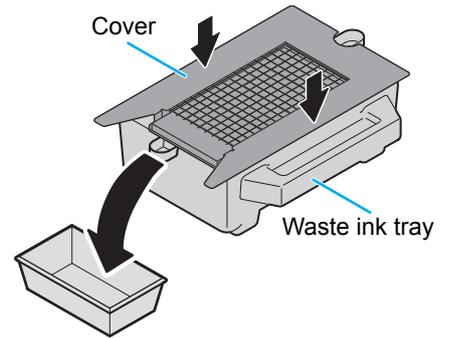
- Raise the waste ink tray with the cover, slide it to the front, and then remove the tray.



4

**Put the waste ink into a tank with a cover.**

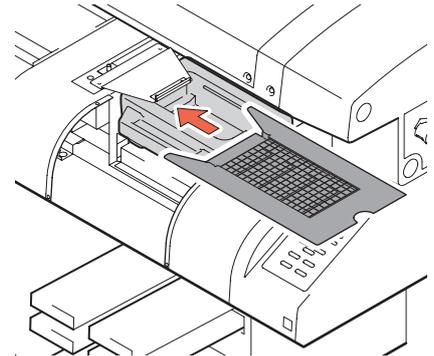
- Holding the waste ink tray with the cover with both hands, and dispose of the ink.
- Before putting the ink into the tank, put paper on the floor. (Not to stain the floor with ink)
- Dispose of the waste ink pursuant to the regulations of your district.



5

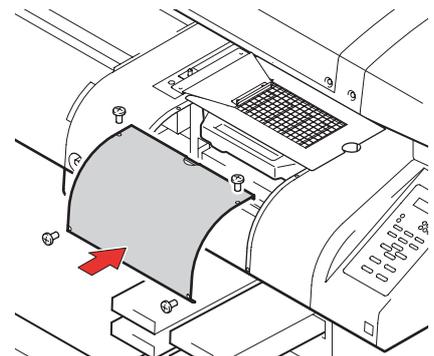
**Set the empty waste ink tray.**

- (1)Set the waste ink tray only.  
(2)Sliding from the right, set the cover.
- Handle the tray with care not to hurt hands at the corner of the tray.



6

**Set the front cover.**



## Disposing of the waste ink in the wiper tank

1

Turn the power on.

- After initializing, <LOCAL> is displayed.

2

When <LOCAL> is displayed, press the **FUNCTION** key.

<LOCAL . 1 >

3

Select the [MAINTENANCE] with the **▲** **▼** key, and press the **ENTER** key.

FUNCTION  
MAINTENANCE <ENT >

4

Select the [ST.MAINTENANCE] with the **▲** **▼** key, and press the **ENTER** key.

MAINTENANCE  
ST.MAINTENANCE <ent >

5

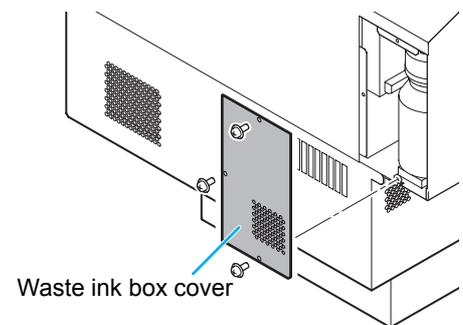
Select the [CHANGE WIP TANK] with the **▲** **▼** key, and press the **ENTER** key.

ST.MAINTENANCE  
CHANGE WIP TANK <ent >

6

Open the cover of the waste ink box.  
(Rear of this machine)

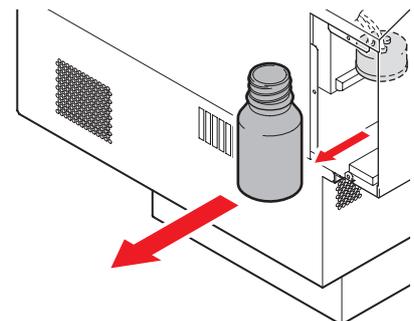
- (1) Remove the screws fixing the waste ink box cover.
- (2) Open the cover.



7

Take the wiper tank out, and dispose of the waste ink.

- Turn the tank holding the tank cover, take out the tank, and then dispose of the ink in the tank.
- Dispose of the waste ink pursuant to the regulations of your district.



**8**

**Set the wiper tank.**

- Turn the tank holding the tank cover, and close the tank cover.
- Fit the waste ink box cover.

**9**

**Press the  key.**

CHANGE WIP TANK  
COMPLETED :ent

**10**

**Press the  key 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.

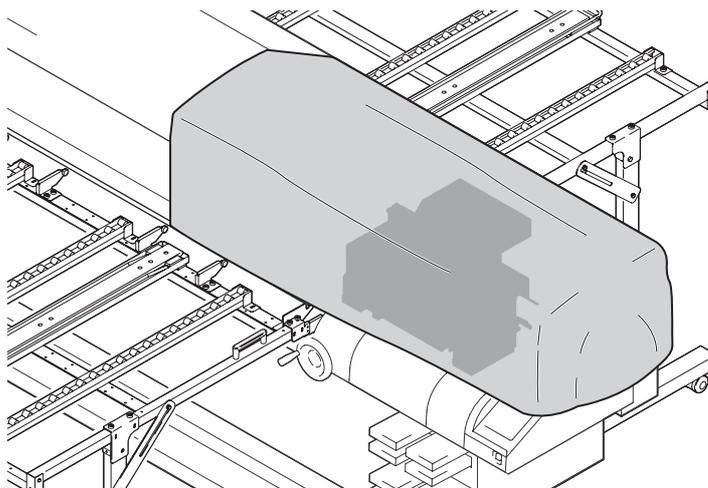
## Storage of Ink Cartridge

Store the ink cartridge in no direct sunlight, and in a dry place. Since it is a delicate product, do not drop it. The board on an ink cartridge (shown on the right) should not be contaminated and not discharge static electricity.



## Storage of this machine

When this machine is not used for a long time, not the ink at the head to be cured, cover the head standby position (right or left depending on the standby position) with the provided shading sheet .







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