Care and Maintenance

UV INKJET PRINTER

JFX220-2515

Requests for Care and Maintenance

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MIMAKI ENGINEERING CO., LTD.

https://mimaki.com/

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Original instructions

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Introduction

Thank you for purchasing the UV-LED curable inkjet printer JFX220-2515.

Read the Request for Care and Maintenance ("this document" hereinafter) thoroughly and make sure you understand its contents to ensure safe and correct use of the product.

Please note that the illustrations contained in this manual are intended to show functions, procedures, or operations and may sometimes differ slightly from the actual machine.

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To Ensure Safe Use

Safety and Information Symbols

This manual uses the following symbols to indicate safety and operational precautions. The symbols displayed differ depending on the type of precaution. Make sure you fully understand the meaning of each symbol and use the machine safely and correctly.

● Example of symbol

Description		
⚠WARNING	Warning	Indicates cases where failure to follow the instructions or improper handling may result in death or serious injury. Be sure to read these instructions carefully and use the machine correctly.
⚠CAUTION	Caution	Indicates cases where failure to follow the instructions or improper handling may result in minor or moderate injury.
	General Warning	Indicates general matters that require attention. The specific precaution is indicated within △.
	General Mandatory Action	Indicates general matters that must be performed. The specific instruction is indicated within ●.
	General Prohibition	Indicates actions that must not be performed. The specific prohibited action is indicated within ⃠.
	Important	Provides information that is important to know before use. Please use this as a reference during operation.
	Tip	Provides a useful tip that is good to keep in mind. Please use this as a reference during operation.
	Reference Information	Indicates a page that contains related information. Click on a word to view the corresponding page.

Maintenance

To ensure years of precise performance, maintain the machine periodically based on frequency of use.
Read the maintenance precautions thoroughly before maintaining this product.

1. Daily maintenance

Conduct the machine maintenance periodically or depending on the operation frequency of the machine, in order to use it for a long time while maintaining its accuracy.

Precautions for maintenance

Pay attention to the following items when maintaining this machine.



- UV LED unit becomes very hot. Turn off the UV LED unit and perform maintenance once the device cools down sufficiently. There is a risk of burns.



- Switch off the power button and unplug the power cable before cleaning. It may cause unexpected accidents.
- If you will not be using the machine for a long time, make sure you remove the power cable from the outlet and remove the media that is set in the machine.





- When handling ink and washing liquid, pay close attention to ventilation and be sure to wear the included safety glasses and gloves. The ink or washing liquid may get in your eyes.



- Do not use chemicals containing benzine, thinner or abrasives. It may cause degeneration/ deformation of cover surface.
- Do not lubricate the inside of device with lubricating oil or other agents. Doing so may cause malfunction.
- Make sure the washing liquid and ink do not get on the cover. This may cause degeneration/ deformation of the cover surface.
- Aggregates are generated in the UV ink (ultraviolet curable ink) if it is mixed with water and alcohol. Do not let water or alcohol stick on the nozzle surface, cap, wiper, or anywhere near the head.



- Never disassemble or modify this machine or ink bottle. Disassembling or modifying will result either in electric shock or malfunction of this machine.



- Do not let moisture enter this machine. If the inside of the machine gets wet, it may cause electric shock and damage.

Maintenance Liquid

Use the appropriate maintenance liquid to suit the ink being used.

Type of ink	Compatible maintenance liquid
UV ink	• F-200/LF-200 Maintenance Liquid (PN : SPC-0568) • F-200/LF-200 CLEANING KIT (PN : SPC-0569)

Maintenance timing

Maintenance timing	Maintenance items (reference page)
Daily (after one day of work)	☞ "Maintenance of Head Surroundings"(P. 24)
	☞ "Maintenance the Print Head Nozzle Surface"(P. 28)
	☞ "Cleaning wiper and cap"(P. 15)
	☞ "NCU Cleaning"(P. 20)
Twice a week	☞ "Washing the Head Nozzle (When Using the PR-200 Ink)"(P. 33) (PR- 200Ver.2)
Weekly (after a week of work)	☞ "Maintenance of Machine Exterior"(P. 8)
	☞ "Table Maintenance"(P. 8)
	☞ "Washing the Ink Discharge Passage"(P. 22)
	☞ "Disposing the Waste Ink"(P. 55)
	☞ "Station Area Cleaning"(P. 21)
About once every one or two weeks	☞ "Replacing Carriage Filters"(P. 54)
	☞ "MBIS maintenance"(P. 9)
Once a month	☞ "Washing the Head Nozzle (When Using the PR-200 Ink)"(P. 33)(For PR-200 Ver. 3)
	☞ "Cleaning the Mist Filter"(P. 11)
	☞ "Cleaning the UV LED Filter"(P. 13)
When an error occurs	☞ "Replacing the wiper"(P. 52)
Maintenance as necessary	☞ "Cleaning UV LED Unit"(P. 25)
	☞ "Ionizer Maintenance"(P. 11)
	☞ "Ink Bottle Cap Replacement"(P. 58)

Tools necessary for maintenance	
F-200/LF-200 Washing Liquid (PN : SPC-0568)	PR-200 Washing Liquid (PN : C-ML013-Z-B2-1-KW) *When using the PR-200 ink
Cotton swab	Cleaning Stick for Head Surrounding (PN : SPC-0527)
Soft cloth	Gloves

Maintenance of Machine Exterior

Depending on the usage environment, trash and dust may stick to the exterior of the main unit. To prevent dust from entering the head moving part, soak a soft piece of cloth in water, wring it tightly and then wipe off the dust.

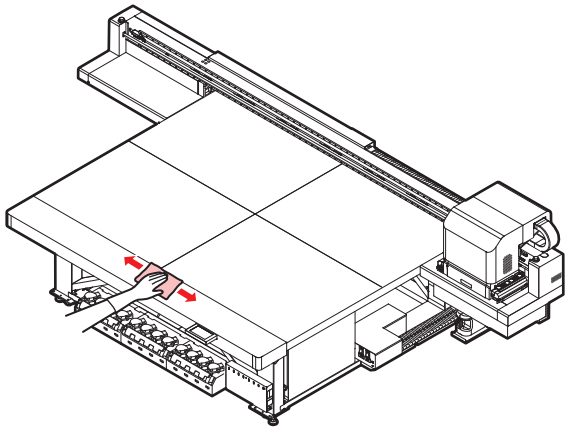
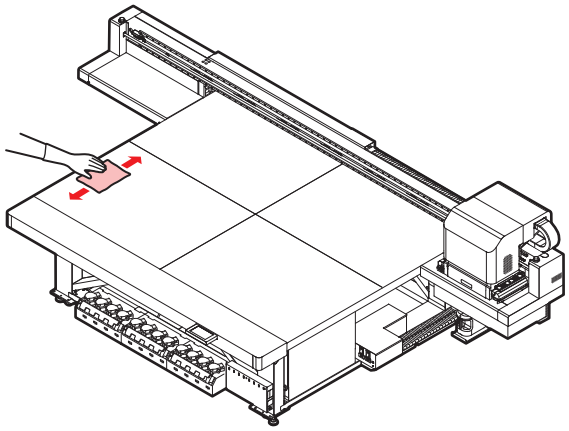


Table Maintenance

- Turn off the main power supply and unplug the power cable before carrying out maintenance.

Continuing to use while dirty will cause dried ink and attached dust to rub against the head nozzle surface, and lead to ejection failures (e.g., nozzle clogging or deflection). Also, there is a risk that the media will not be properly secured in place.



- Do not directly apply organic solvents such as acetone when cleaning the table. Doing so may cause the finish on the table to peel.
  It can be cleaned with paper towels soaked in ethanol.

- Be careful to prevent liquids from getting inside the machine. Otherwise there is a risk of failure, electric shock, or fire.

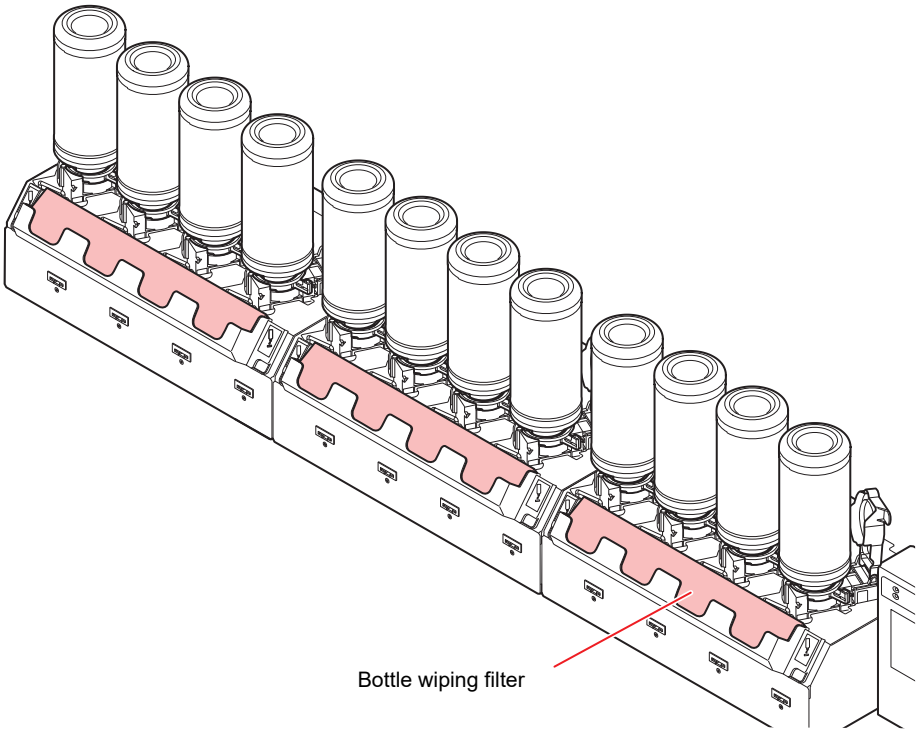
- If you really want to use IPA or ethanol to clean ink or color stains from the table, dampen a soft cloth or paper towel with a small amount of organic solvent and then wipe it off. At this time, be careful not to let excess organic solvent seep into the table.
- Remove debris and solidified ink frequently using a soft brush, dry cloth, or paper towel.
- For heavy soiling, wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out.
- Areas such as the table grooves and screw holes are particularly susceptible to dirt buildup, and should be cleaned frequently.
- Solidified ink on the plate can be removed using a spatula, but care must be taken to avoid scratching the plate.

MBIS maintenance

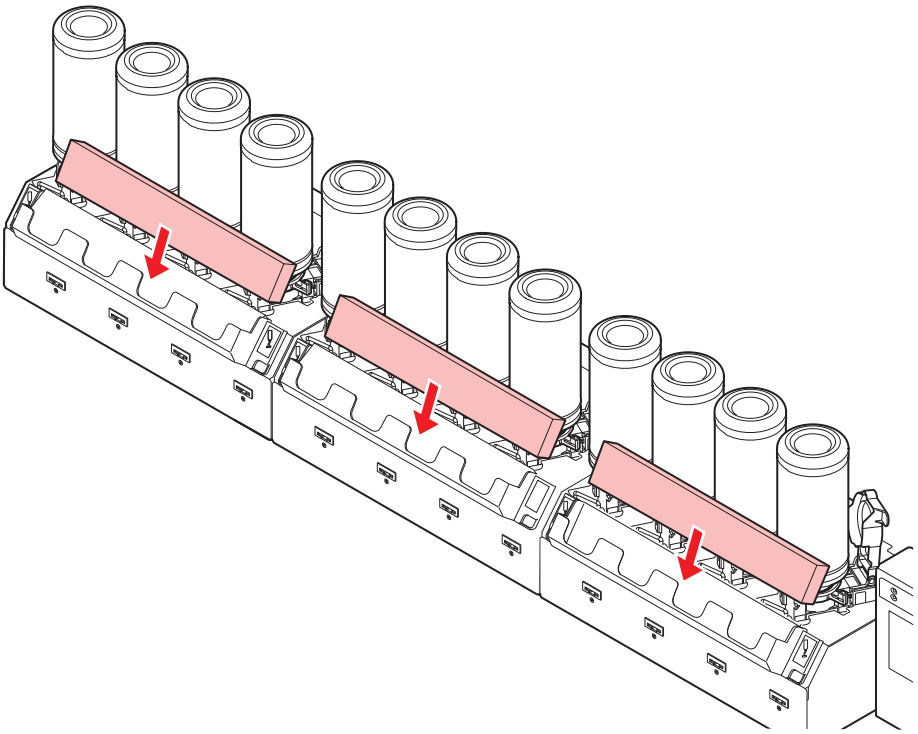
Please replace the Bottle Wiping Filter (PN: SPC-0820) if it gets dirty.

- Be sure to perform this procedure with the operation panel pushed all the way in. During the procedure, be careful not to let your head touch the operation panel or table.

1 **Remove the bottle wiping filter.**



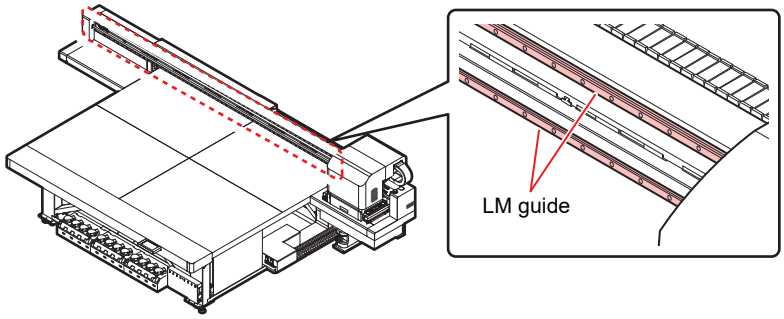
2 **Attach a new Bottle Wiping Filter (PN: SPC-0820).**



LM guide cleaning

When the LM guide gets dirty, wipe it off with a soft, dry cloth.

Important!
- Do not wipe with ethanol.



Ionizer Maintenance

Follow the instruction manual when performing ionizer (option) maintenance.

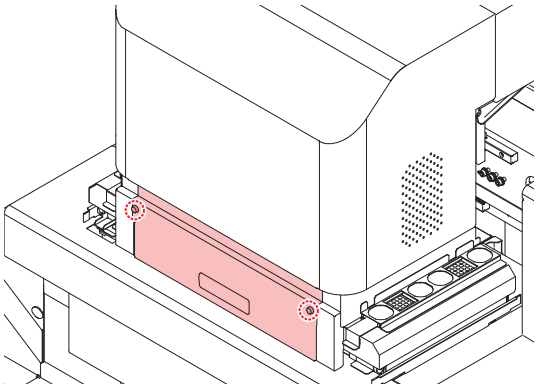
Cleaning the Mist Filter

Check the mist filter. Replace if very dirty.

Important!
- The mist filter is a component that absorbs the mist generated when ink droplets are discharged from the print head. Continuing to use a dirty filter may result in contamination of the final print. Be sure to clean the filter approximately once a month.

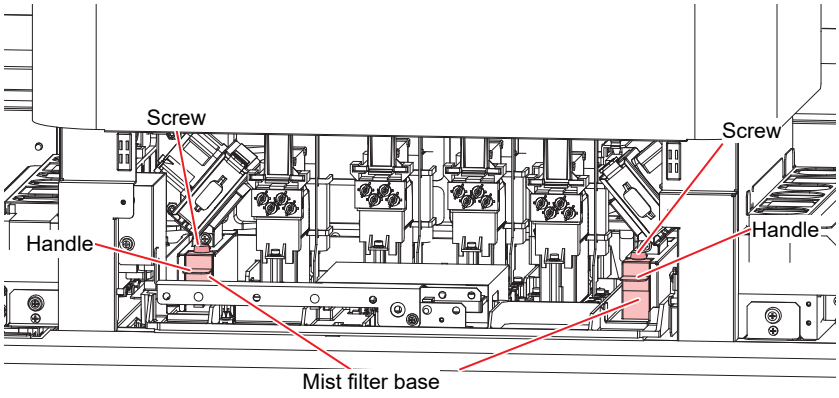
1 **Remove the carriage cover DC.**

- Remove the screws (2 places) and remove the cover.

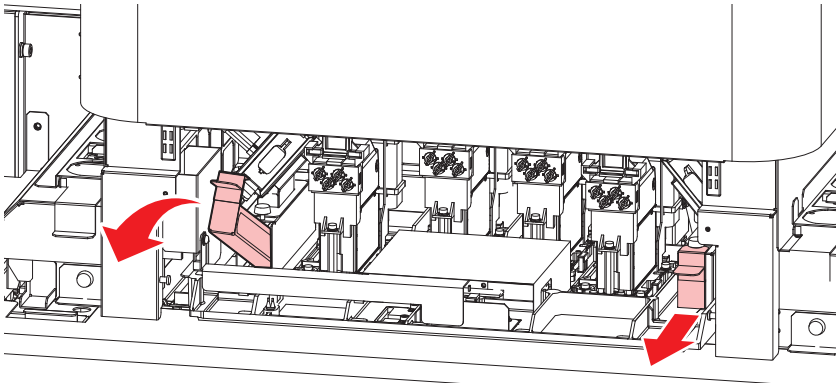


2 Loosen the retaining screws and pull out the mist filter base.

- Pull the handle toward you to remove it.



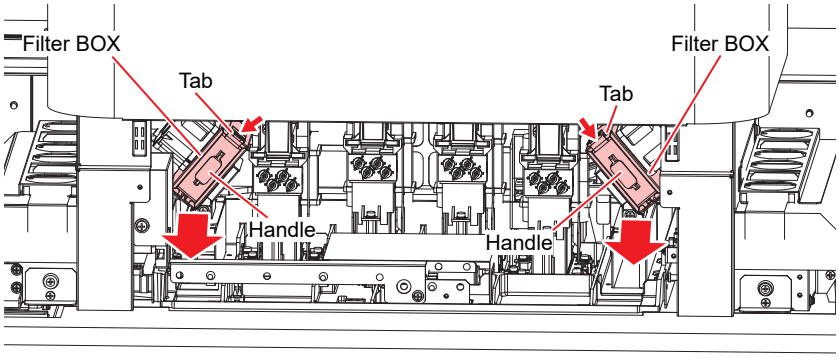
- Pull out the left side while lifting it upward.



3 Pull out the filter box.

- Press down on the tabs and slide it in the direction of the arrow to remove it.

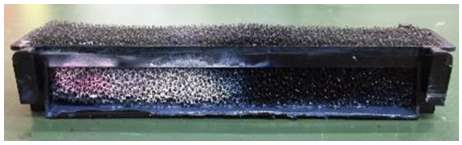
- Lift it in the direction of the tabs, and it will come off easily.



4 Clean the filter.

- Remove the filter and press down on it with a paper towel to remove dirt.
- Wipe off the dirt adhering to the filter case.

- Replace the mist filter if it gets very dirty, such as when there is liquefaction of ink adhering to the filter.
☞ "Mist Filter Replacement"(P. 59)



5 **Insert the clean mist filter.**

6 **Tighten the retaining screws that were removed in Step 2.**

7 **Insert the filter box.**

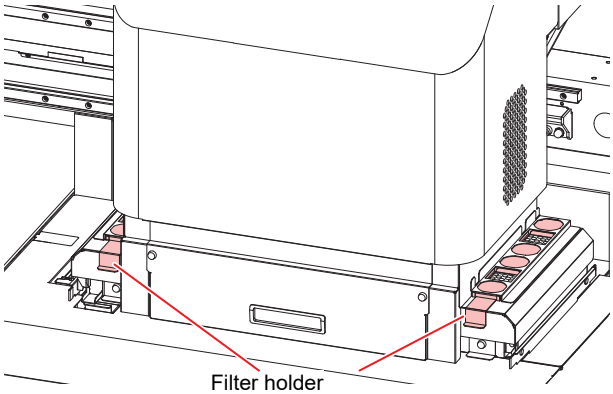
- Insert until it clicks into place. Confirm that the tab is engaged.

8 **Close the carriage cover DC.**

Cleaning the UV LED Filter

Check the condition of the UV LED filter and replace it if it is heavily soiled.

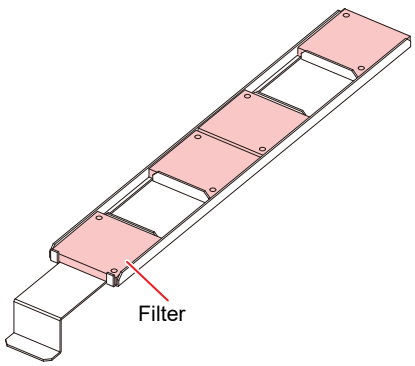
1 **Pull out the filter holder.**



2 **Clean the filter.**

- Remove the filter and press down on it with a paper towel to remove dirt.

- If the filter is heavily soiled, replace it. ☞ "UV LED Filter Replacement"(P. 61)



3 **Return the filter holder to its original position.**



- Insert it all the way in and ensure that it is secured by the magnet.

2. Maintaining the Capping Station

Maintain the ink cap and wiper in the capping station. (STATION MAINT.)

The ink cap and wiper function as described below.

- Wiper:
  Wipes off any ink on the head nozzle
- Ink cap:
  Prevents the clogging of head nozzles due to dryness

As you use this machine, the wiper and ink cap start getting dirty from ink and dust.

If nozzle clogging is not resolved even after head cleaning is implemented Head Cleaning, use the washing liquid and a clean stick for cleaning.

Tools required for maintenance	• F-200/LF-200 Washing Liquid (PN : SPC-0568)	• Safety glasses
	• Cleaning Stick for Head Surrounding (PN : SPC-0527)	• Gloves




- When performing maintenance for the capping station, be sure to wear the included safety glasses and gloves. Otherwise you may get ink in your eyes.



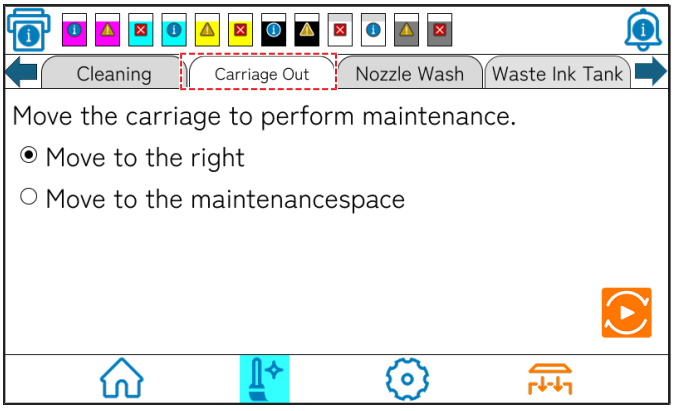
- Do not remove the capping station from the carriage with your hands. If you want to move the carriage, press the [MAINT.] key and execute carriage out.
  ☞ "Cleaning wiper and cap"(P. 15)(Steps 1 to 2)
- Make sure you perform maintenance for the ink cap and wiper in the capping station everyday. If they are left dirty, the nozzle surface may get dirty, dust or hardened ink may get stuck to the nozzle, resulting in poor discharge.

Cleaning wiper and cap

Important!

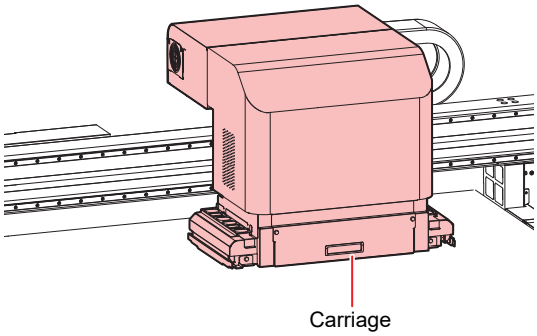
- After finishing work for the day, clean the wiper and the surrounding area (frequency of cleaning differs depending on the usage frequency of the printer).
- If there are severe bends or dirt on the wiper, replace it with a new wiper.
  ☞ "Replacing the wiper"(P. 52)
- When cleaning, make sure no fibers from the clean stick are left behind. Residual fibers may cause the printing quality to deteriorate.

1 Tap [Carriage Out] on the Maintenance screen.



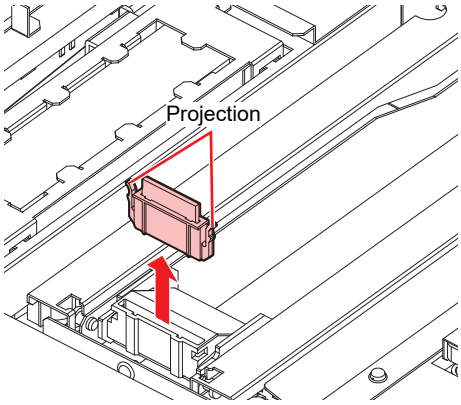
2 **Select [Move to the right] and then tap .**

- Carriage moves onto the table.



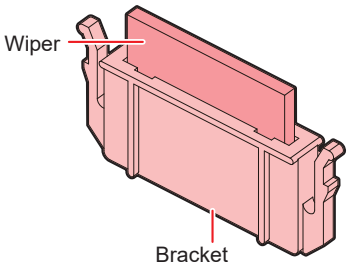
3 **Remove the wiper.**

- Pull out the wiper by holding the protrusions at both the ends.



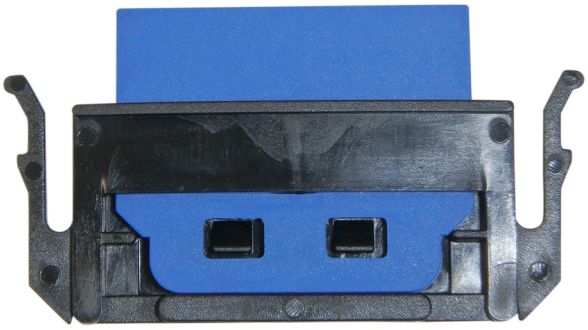
4 **Clean the wiper and the bracket.**

- Wipe off any ink on the wiper and the bracket using a clean stick soaked in washing liquid. Wipe it off properly so that there is no residual washing liquid.



Important!

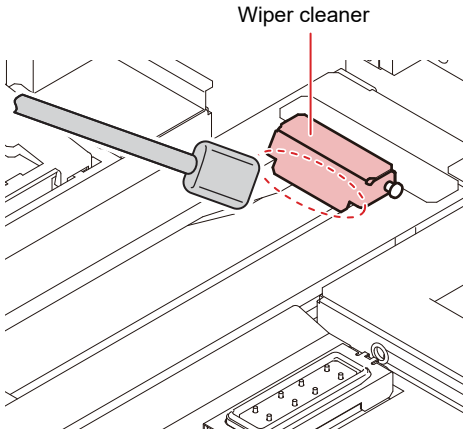
- Clean it until it looks like the picture.



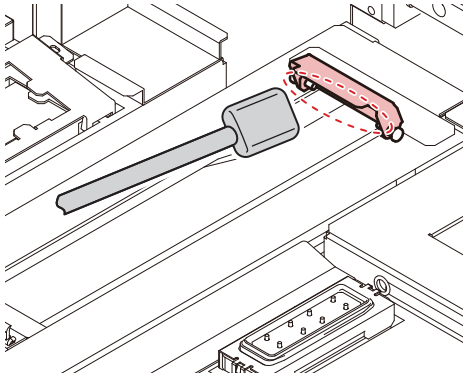
- After cleaning, make sure the wiper and bracket are aligned horizontally.

5 Clean the wiper cleaner.

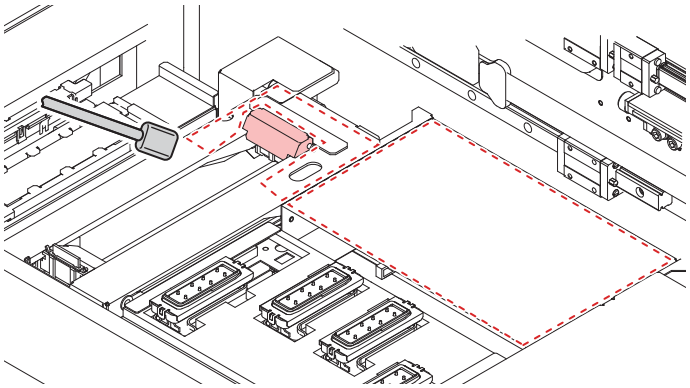
- Clean the tip of the wiper cleaner with a clean stick.



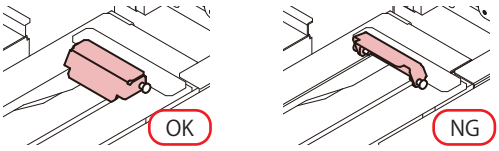
- Lift the wiper cleaner up and clean the ink adhering to the inside with a clean stick.



- Clean the area around the wiper cleaner and the shutter cover.

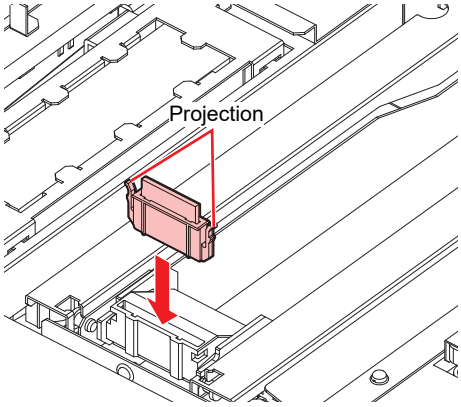


- Do not remove the wiper cleaner from the bracket.
- Only clean the front side of the wiper cleaner. (There is no need to clean the backside)
- After cleaning the wiper cleaner, check that the cleaner is not facing up.



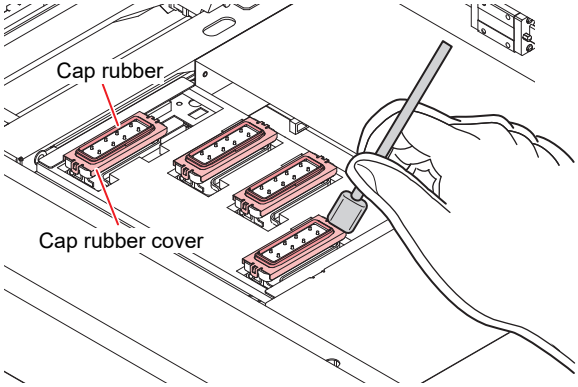
6 Return the wiper to its original position.

- Insert the wiper by holding both the ends.



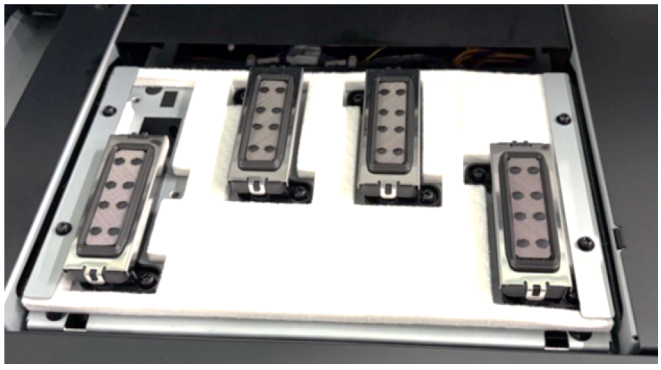
7 Clean the cap rubber and cap rubber cover.

- Wipe off any ink on the cap rubber and the cap rubber cover using a clean stick soaked in washing liquid.
  Wipe it off properly so that there is no residual washing liquid.



Important!

- Clean it until it looks like the picture.



- After cleaning, make sure the cap rubber and the mesh inside the cap have not come off.

8 Once cleaning is complete, check the [Complete] boxes for [Wiper Cleaning] and [Cap Cleaning], and then tap ✓.

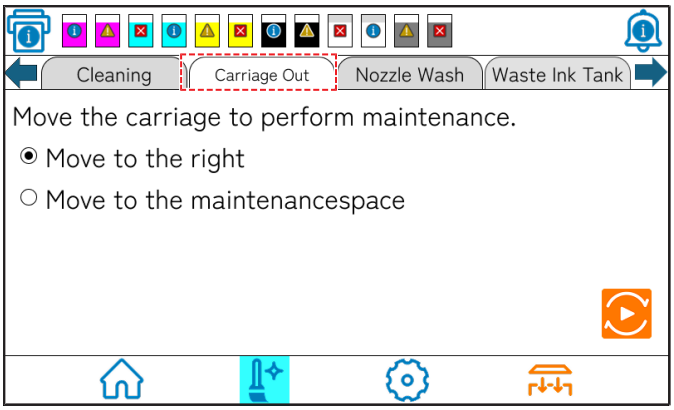
- The carriage will return to its original position.

NCU Cleaning

Ink and dust adhere to the NCU.

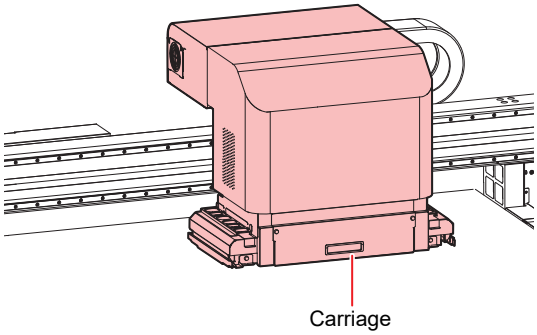
The NCU cannot operate normally if there is ink or dust adhering to it.

1 **Tap [Carriage Out] on the Maintenance screen.**



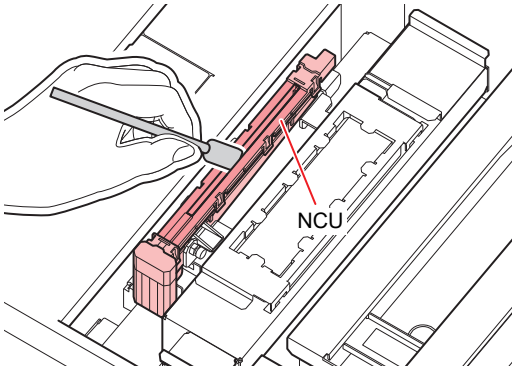
2 **Select [Move to the right] and then tap .**

- Carriage moves onto the table.



3 **Wipe off any ink or dust adhering to the NCU.**

- Wipe the inside and the outside with a clean stick (SPC-0421) soaked in washing liquid.
- Wipe it off properly so that there is no residual washing liquid.



4 **Once cleaning is complete, tap .**

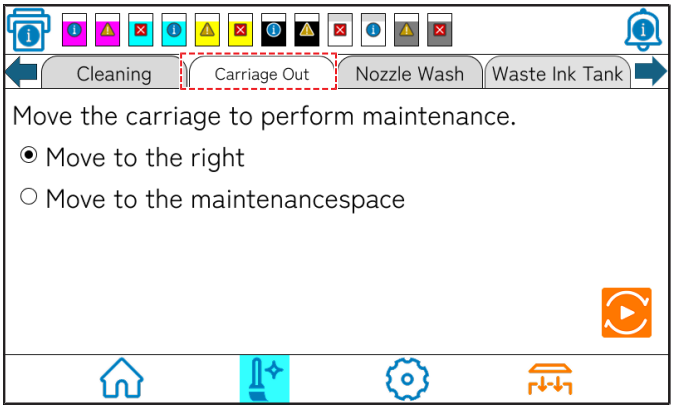
Station Area Cleaning

We recommend that you clean the machine often to maintain the quality of the machine and the images.

Important!

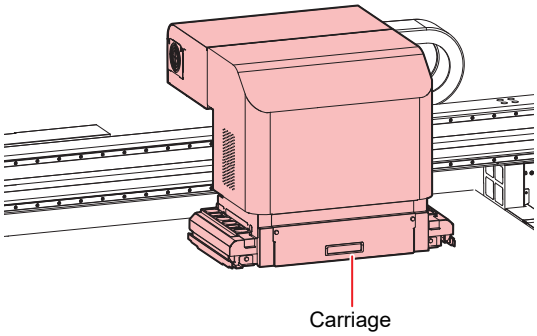
- Clean the area around the station once a week (frequency of cleaning differs depending on the usage frequency of the printer).
- If the ink left in the waste ink tray hardens due to UV light, the ink discharged during flushing cannot move to the waste ink bottle. We recommend that you clean the waste ink tray often.

1 **Tap [Carriage Out] on the Maintenance screen.**



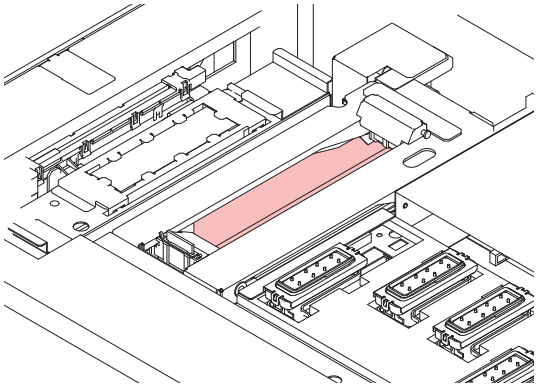
2 **Select [Move to the right] and then tap .**

- Carriage moves onto the table.
- Clean the waste ink tray.



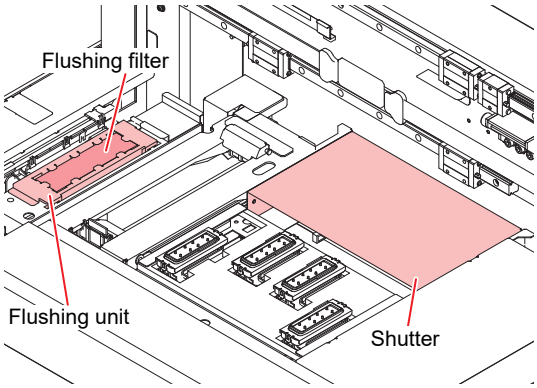
3 **Use a cloth to wipe off the ink around the waste ink tray.**

- Clean the area highlighted in pink in the figure below.
- If the ink is stuck to the surface and cannot be wiped, use a spatula or another similar tool to scrape it off.



4 **Wipe off any ink on the flushing unit or the shutter.**

- Wipe off the ink using a clean stick soaked in washing liquid. Wipe it off properly so that there is no residual washing liquid.



Important!

- If the surface of the flushing filter has become fluff, wipe it using a clean stick soaked in washing liquid.
- If the dirt is severe or hardened, replace the flushing filter. ☞ "Flushing Filter"(P. 64)

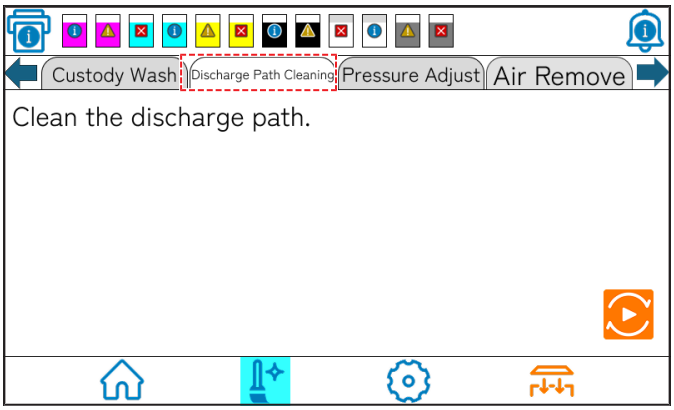
5 **Once cleaning is complete, tap** **.**

- The carriage will return to its original position.

Washing the Ink Discharge Passage

Wash the ink discharge passage periodically to prevent ink from hardening and clogging inside it.

1 **Tap [Clean the discharge path] on the Maintenance screen.**

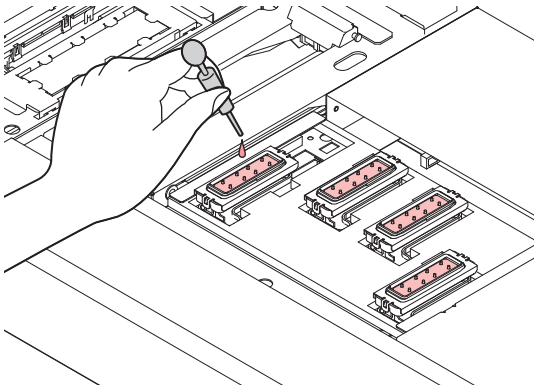


2 **Tap** **.**

- Carriage moves onto the table.

3 **Take washing liquid in a dropper and fill the cap with it until it is full.**

- Fill the cap with washing liquid until it is about to overflow.



4 **Tap** ✓ **.**

- After the air suction operation is performed for 30 seconds, the carriage returns, and the display goes back to the screen shown in Step 1.

3. Maintenance of Head Surroundings

Extremely minute mechanisms are used for the head, and therefore proper care must be taken when performing maintenance.

Some gel-like ink or dust may be stuck in the bottom part of the slider and around the head. Rub it off using a clean stick or another similar tool. When rubbing, make sure you never rub the nozzle part of the head.

Tools required for cleaning	• Cleaning Stick for Head Surrounding (PN : SPC-0527)	• Safety glasses	• Gloves



- If the ink gets on your skin or your clothes, rinse it out immediately with soap or water. If you get the ink in your eyes, wash them immediately with water and consult a doctor.





- When handling ink and washing liquid, pay close attention to ventilation and be sure to wear the included safety glasses and gloves. The ink or washing liquid may get in your eyes.

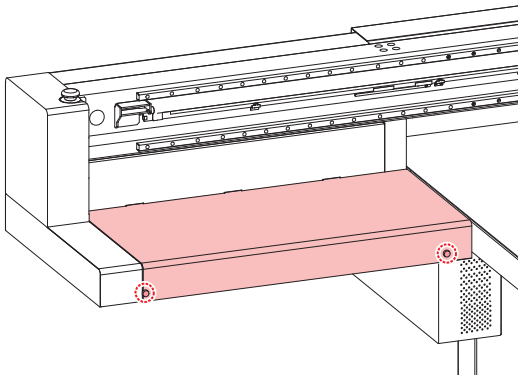


- Make sure you clean the bottom surface of the carriage everyday so that it does not get dirty from ink or dust. If it is left dirty, dirt or hardened ink may smear onto the nozzle due to wiper operation during head cleaning.
- When you clean the bottom surface of the carriage, be careful so as not to rub the nozzle.

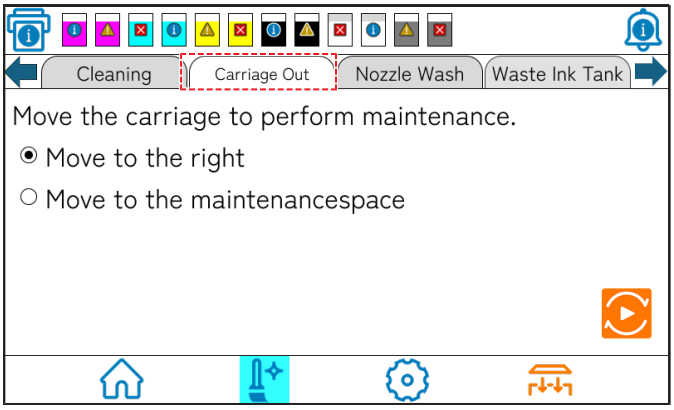
1 **Execute head cleaning[NORMAL].Head Cleaning**

2 **Remove the cover on the right side of the Y-bar.**

- Remove the decorative screws (2 places) and then remove the cover.



3 **Tap [Carriage Out] on the Maintenance screen.**

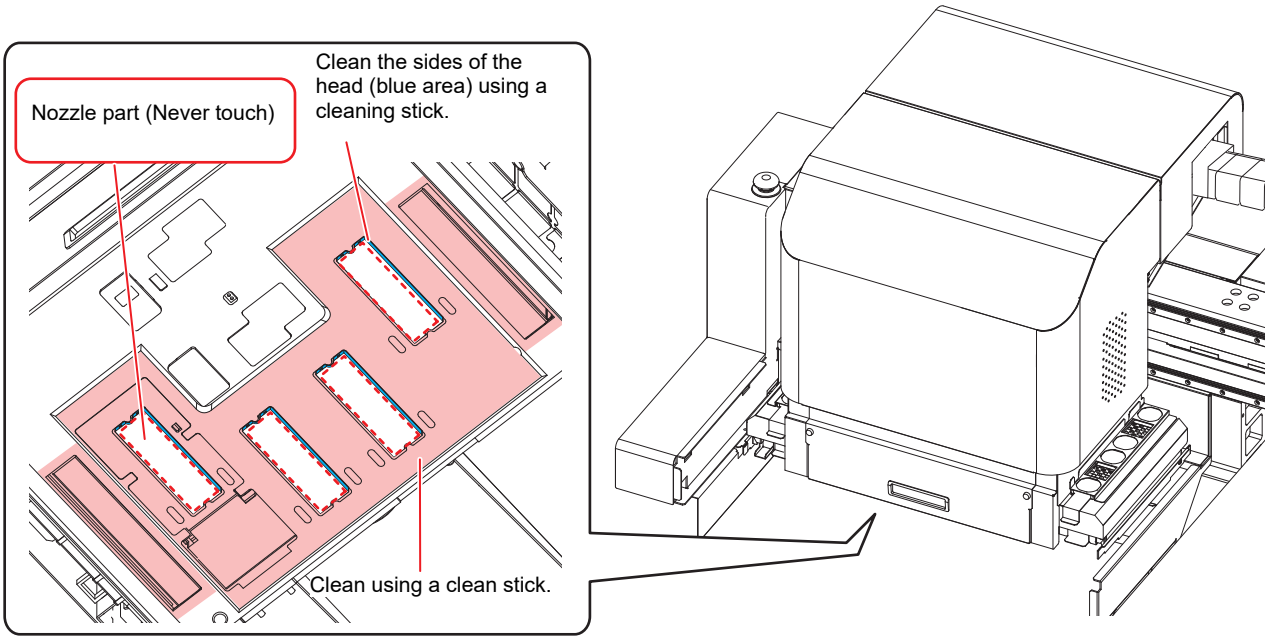


4 **Select [Move to the maintenance space].**

- Carriage moves to the left edge of the machine.

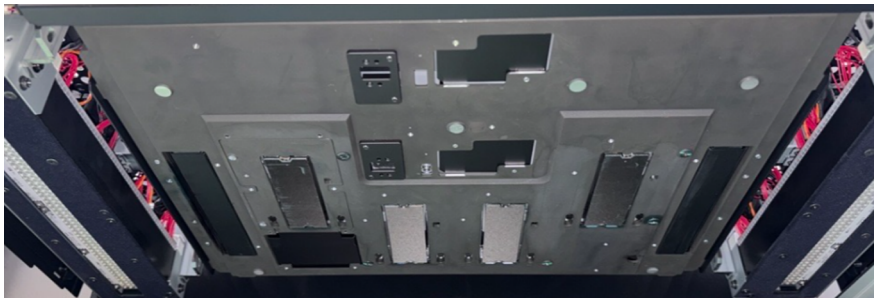
5 **Wipe any ink on the sides of the head and carriage using a clean stick.**

- Never rub the nozzle part.



Important!

- Clean it until it looks like the picture.
- Clean the nozzle surface if the shape of the cap rubber is visible on it.
- If you need to leave your seat during maintenance, press the [ENTER] key to end the cleaning process. If left as-is, the ink will harden due to the effects of external light, resulting in nozzle clogging or other harmful effects.



Cleaning UV LED Unit

Periodically clean any ink or dust that has accumulated on the bottom or glass surfaces of the UV-LED unit.

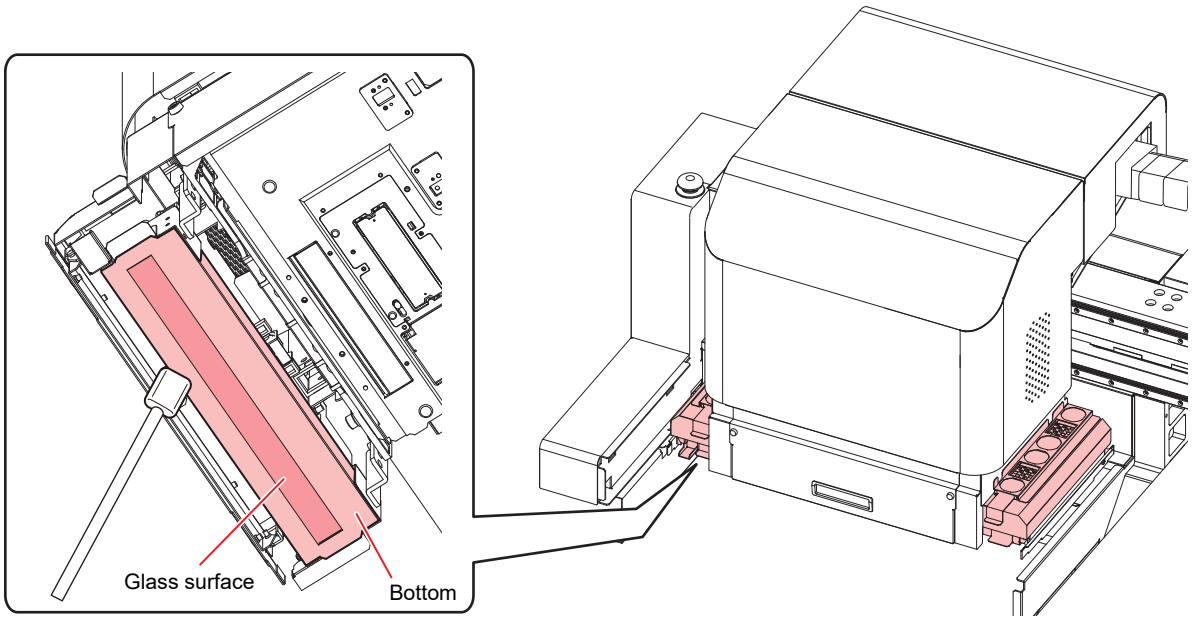
Important!

- Be careful not to damage the irradiation part on the bottom of the unit when cleaning the UV LED. If the dirt or shading on the irradiation part exceeds a certain limit, it may cause banding due to poor curing of the ink.

- If you want to clean only the UV-LED unit, perform maintenance steps 1 to 3 on the area around the head, and then move the carriage before cleaning.

1 **Clean the UV-LED unit.**

- Wipe off any ink and dust adhering using a cleaning stick moistened with maintenance liquid. Wipe off the maintenance liquid. Make sure none remains.



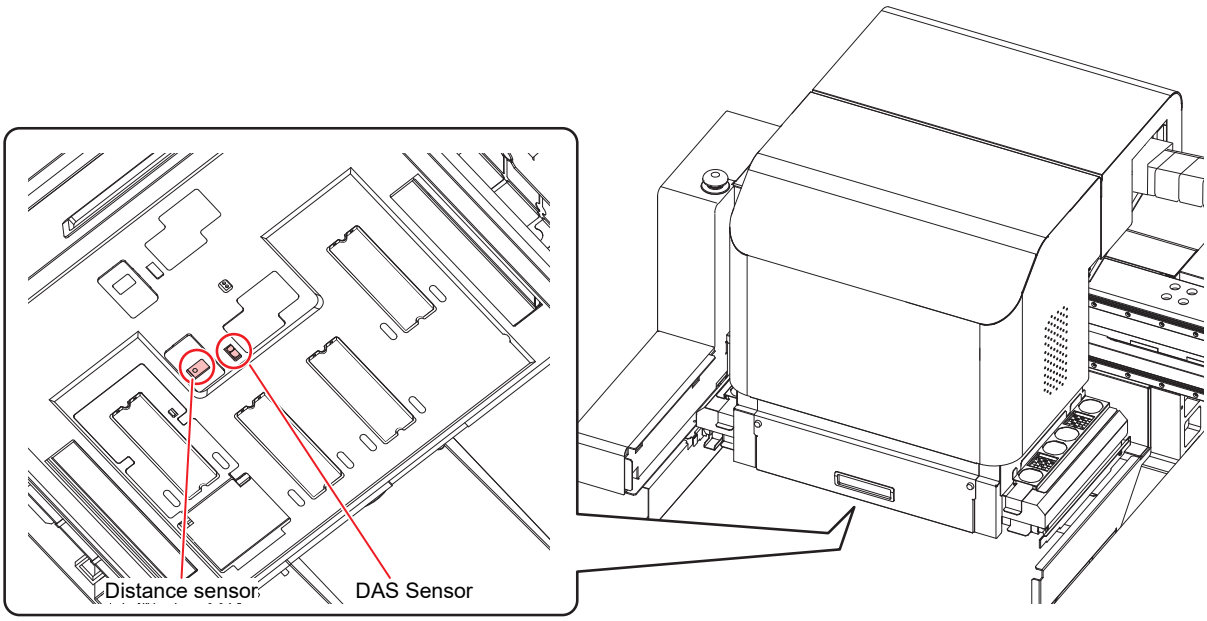
- Avoid strongly scrubbing the UV-LED glass with a cleaning stick. Failure to do so may damage the UV-LED glass.

Cleaning DAS and Distance Sensors

The DAS and distance sensors are located on the carriage underside. If dust or debris accumulates on a sensor, it may prevent the sensor from properly functioning.
Be sure to wipe off any dirt with a cleaning stick or a soft cloth.

- If you want to clean only the DAS and distance sensors, perform maintenance steps 1 to 3 on the area around the head, and then move the carriage before cleaning.

1 **Wipe off any dirt from the DAS and distance sensors.**



- For heavy soiling, wipe using a soft cloth soaked in diluted neutral detergent and thoroughly wrung out.

4. Maintenance the Print Head Nozzle Surface

Clean the print head nozzle surface with maintenance liquid 11 or 15 to prevent ejection failure or deflection.

- Do not use anything other than maintenance liquid 11 or 15 to clean the print head nozzle surface. This will increase the risk of machine failure or ejection failures.

- The print head uses an extremely delicate mechanism. Take great care when handling it.

Tools required for cleaning	• Cleaning Stick for Head Surrounding (PN : SPC-0527)	• Maintenance liquid 11 • Maintenance liquid 15

- If the ink gets on your skin or your clothes, rinse it out immediately with soap or water. If you get the ink in your eyes, wash them immediately with water and consult a doctor.

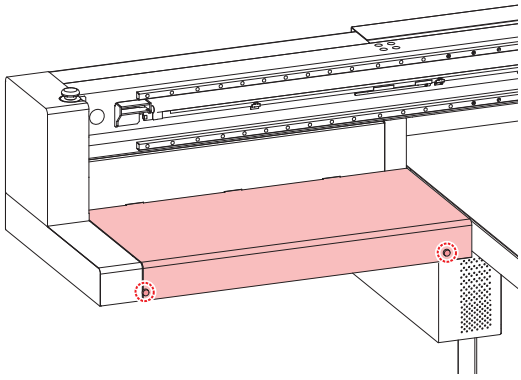
- When handling ink and washing liquid, pay close attention to ventilation and be sure to wear the included safety glasses and gloves. The ink or washing liquid may get in your eyes.

1 **Execute head cleaning[NORMAL].Head Cleaning**

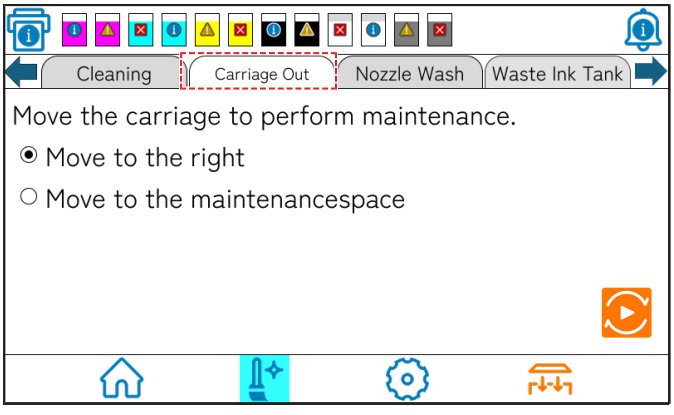
- Perform cleaning before maintenance so that no ink adheres to the nozzle surface.

2 **Remove the cover on the right side of the Y-bar.**

- Remove the decorative screws (2 places) and then remove the cover.



3 **Tap [Carriage out] on the Maintenance screen.**



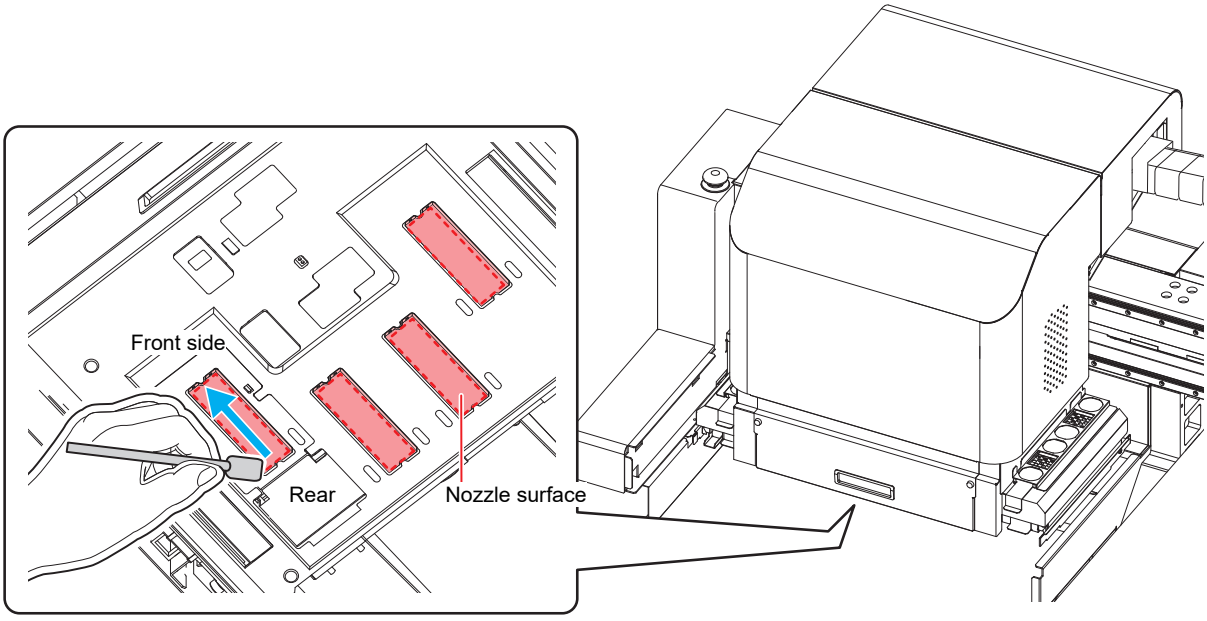
4 **Select [Move to the maintenance space].**

- Carriage moves to the left edge of the machine.

5 **Use a clean stick soaked in the maintenance liquid.**

6 **Clean the print head nozzles surface.**

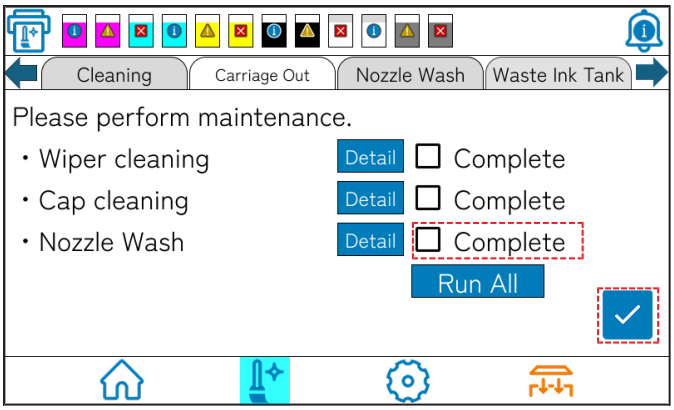
- Clean the head nozzle surface toward the front from the rear of the head using a cleaning stick.



- Be sure to clean using a cleaning stick.
- Do not rub or press firmly on the sponge part with your fingers against the nozzle surface. This may damage the nozzle surface and result in ejection failure.
- Do not reuse cleaning sticks once used. This may cause nozzle clogging.

7 **Once cleaning is complete, check the [Complete] box for [Clean around the nozzles], and then tap** ✓ **.**

- The carriage will return to its original position.



8 **Execute head cleaning[NORMAL].Head Cleaning**

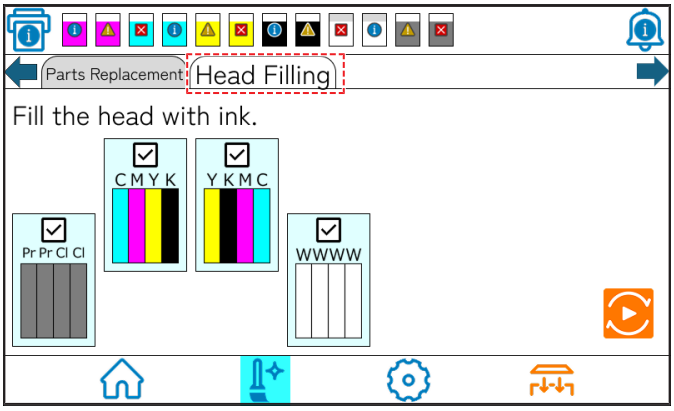
5. When Nozzle Clogging Cannot Be Solved

If the nozzle clogging is not resolved even after head cleaningHead Cleaning is implemented, execute the following functions.

Cleaning wiper and cap	• Clean the wiper and the cap. ☞ "Cleaning wiper and cap"(P. 15)
Maintenance the Print Head Nozzle Surface	• Clean the head nozzle surface. ☞ "Maintenance the Print Head Nozzle Surface"(P. 28)
Head Filling	• Fill the head with ink. ☞ "Filling with ink from the sub tank to the head"(P. 30)
Nozzle Wash	• Wash the head nozzle. ☞ "Washing of head nozzle"(P. 31)
Air PG	• Remove ink and any trapped air from the head. ☞ "Performing Air Purge"(P. 37)
Nozzle Recovery	• If you cannot fix the nozzle clogging, print using an alternative nozzle. ☞ "Nozzle Recovery Function"(P. 41)

Filling with ink from the sub tank to the head

1 **Tap [Fill Head] on the Maintenance screen.**



2 **Tap**  **.**

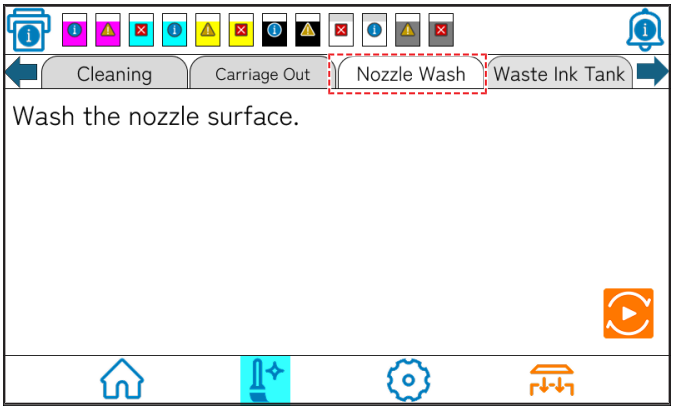
- The carriage will move, and then filling begins.

Washing of head nozzle

Wash the head nozzles to prevent them from getting clogged due to the ink hardening.

Check these items in advance	Is [INK END] displayed? • The ink is absorbed during washing. If the ink end is detected at this time, washing cannot be performed. • Replace the ink bottle with another one for which ink end has not been detected.

1 **Tap [Nozzle Wash] on the Maintenance screen.**



2 **Tap**  **.**

- The carriage will move.

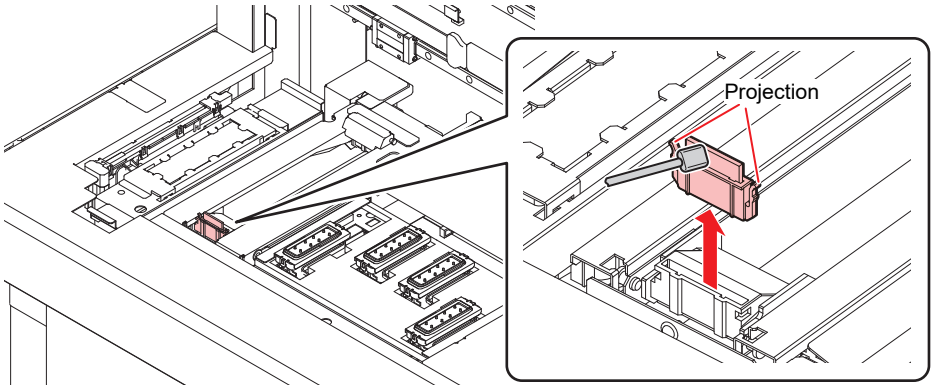
3 **Clean the wiper and the bracket.**

(1) Open the right maintenance cover, hold the protrusions at both the ends of the wiper and pull it out.

(2) Use a clean stick soaked in washing liquid.

- Wipe it off properly so that there is no residual washing liquid.

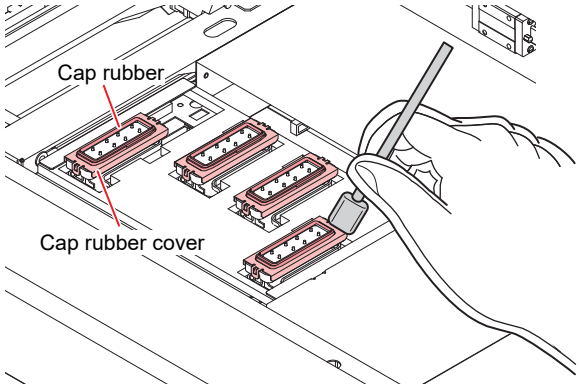
(3) Hold the wiper by the protrusions at both the ends and push it back to the original position.



4 **Once cleaning is complete, tap**  **.**

5 **Clean the cap rubber and cap rubber cover.**

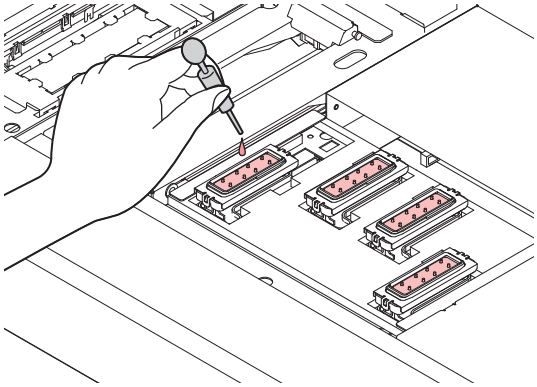
- Wipe off any ink on the cap rubber and the cap rubber cover using a clean stick soaked in washing liquid. Wipe it off properly so that there is no residual washing liquid.
- At this time, the discharge passage is cleaned automatically.



6 **Once cleaning is complete, tap** ✓**.**

7 **Take washing liquid in a dropper and fill the cap with it until it is full.**

- Fill the cap with washing liquid until it is about to overflow.



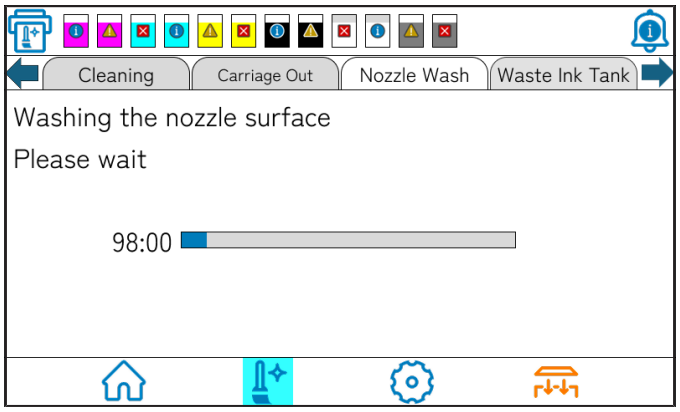
8 **Once you are finished, tap** ✓**.**

9 **Enter the leaving time.**

- When using ML007 washing liquid, the recommended time is one minute.
- Recommended duration for the ML016 washing liquid: 10 minutes, depending on the nozzle condition
- When using PR-200 washing liquid, the recommended time is one minute.

10 Tap .

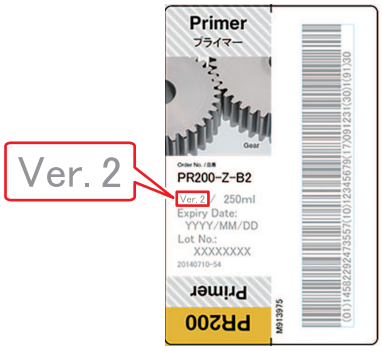
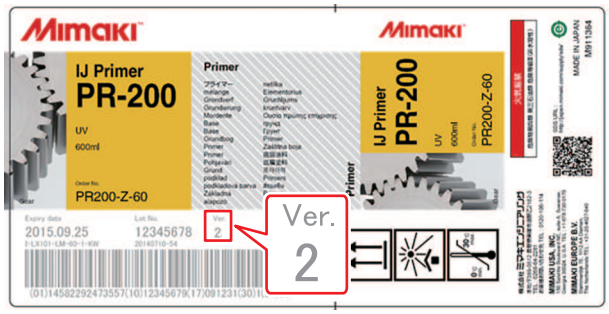
- This will absorb the washing liquid filled in the cap.
- The following screen is displayed while the washing liquid is still left in the cap.



Important! • If the missing nozzle is not resolved even after cleaning multiple times, contact your local distributor, or our sales office or call center.

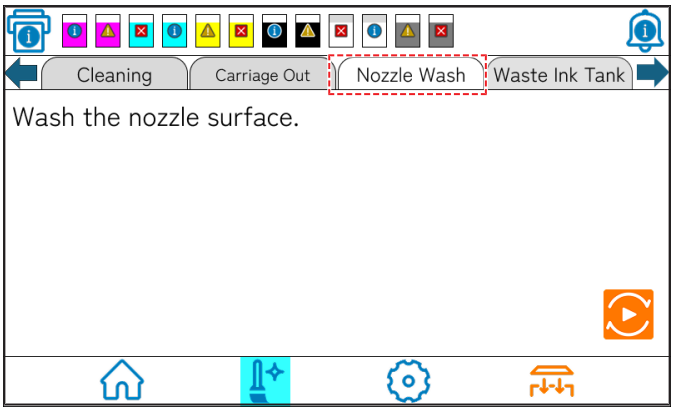
Washing the Head Nozzle (When Using the PR-200 Ink)

Models equipped with PR-200 may cause nozzle clogging. Check the version indicated on the label of the PR-200 ink cartridge/pack/bottle, and wash the nozzle twice a week for Ver. 2 and once a month for Ver. 3.

Version location on the label	
220 mL cartridge	250 mL bottle
	
600 mL pack	1L bottle
	

Required maintenance liquid	• F-200/LF-200 Maintenance Liquid (SPC-0568)	• PR-200 Maintenance Liquid (C-ML013-Z-B2-1-KW)

1 **Tap [Nozzle Wash] on the Maintenance screen.**



2 **Tap**  **.**

- The carriage will move.

Important!
- [COMPLETED (NEXT): ENT] is displayed on the screen until the cleaning work of wiper is complete. Press the [ENTER] key after Step 4 is complete.
  If you press the [ENTER] key before the cleaning is complete, the machine moves to the next washing step.

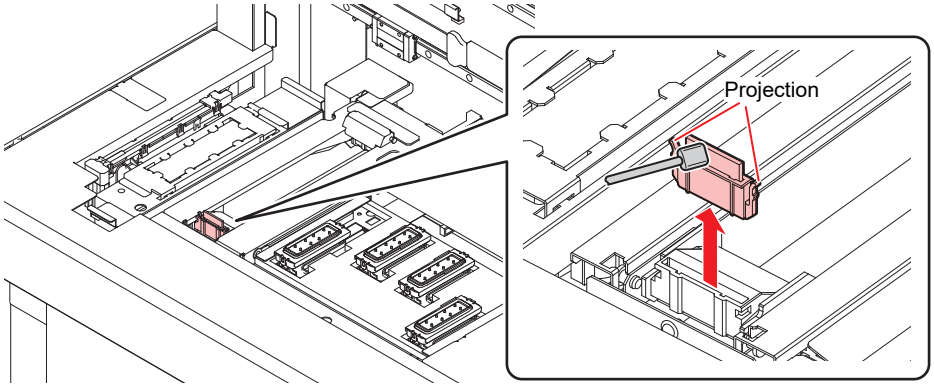
3 **Clean the wiper and the bracket.**

(1) Open the right maintenance cover, hold the protrusions at both the ends of the wiper and pull it out.

(2) Use a clean stick soaked in the F-200/LF-200 Maintenance Liquid (SPC-0568).
- Wipe it off properly so that there is no residual F-200/LF-200 Washing Liquid.

(3) Hold the wiper by the protrusions at both the ends and push it back to the original position.

Important!
- When cleaning the wiper, bracket, cap rubber, and cap rubber cover, only use the F-200/LF-200 Maintenance Liquid. Do not use the PR-200 Maintenance Liquid (C-ML013-Z-B2-1-KW).

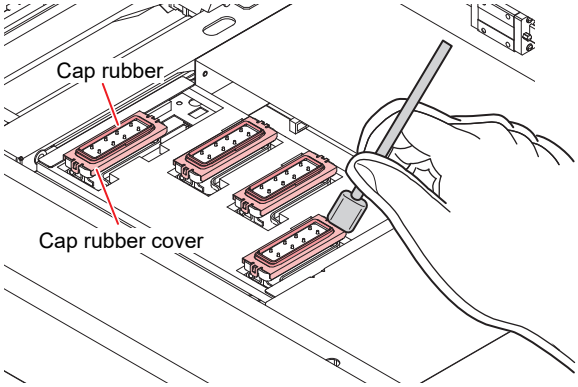


Important!
- [COMPLETED (NEXT): ENT] is displayed on the screen until the cleaning of the cap is complete. Press the [ENTER] key after Step 6 is complete.
  If you press the [ENTER] key before the cleaning is complete, the machine moves to the next washing step.

4 **Once cleaning is complete, tap**  **.**

5 **Clean the cap rubber and cap rubber cover.**

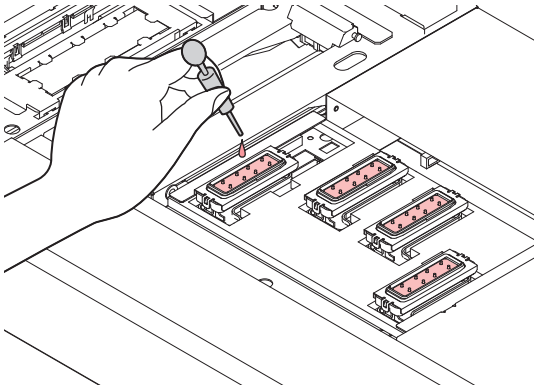
- Wipe off any ink on the cap rubber and the cap rubber cover using a clean stick soaked in the F-200/LF-200 Maintenance Liquid. Thoroughly wipe off, ensuring there is no residual F-200/LF-200 Maintenance Liquid.
- At this time, the discharge passage is cleaned automatically.



6 **Once cleaning is complete, tap** ✓**.**

7 **Using a dropper, fill only the cap of the head equipped with PR-200 with PR-200 Maintenance Liquid (C-ML013-Z-B2-1-KW). Fill until full.**

- Fill the cap with washing liquid until it is about to overflow.



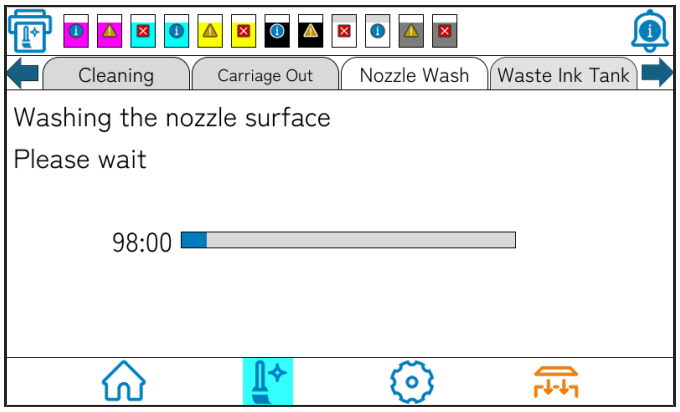
8 **After filling the maintenance liquid, tap** ✓**.**

9 **Enter the leaving time.**

- The recommended duration is one minute.

10 Tap .

- This will absorb the washing liquid filled in the cap.
- The following screen is displayed while the washing liquid is still left in the cap.



- After the duration has passed, the display returns to Step 2.

11 Execute head cleaning (HARD) once for the head equipped with PR-200.

(1) Tap the [Cleaning] tab on the Maintenance menu.

(2) Select [Hard] for the type.

(3) For the head selection, select only Head 3 and then tap .

12 Check the nozzle status by performing a test print.

- When the nozzle clogging occurs, execute nozzle cleaning (HARD) again then check the nozzle status.

Important!

- If the nozzle clogging is not resolved even after repeating this cleaning 3 times, contact your local distributor, or our sales office or call center.

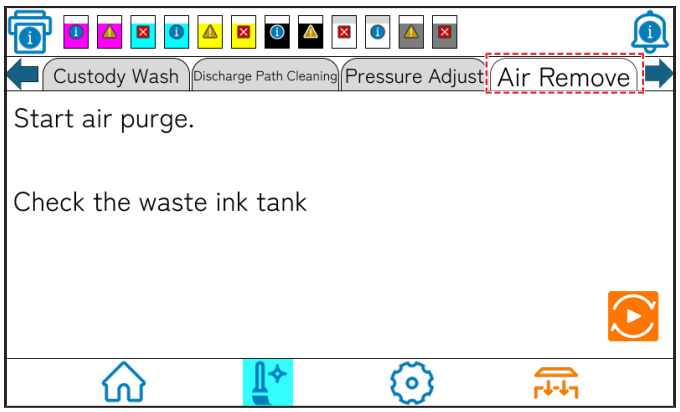
Performing Air Purge

If the nozzles are clogged due to mixing of colors or air in the ink in the head, release the ink in the head or the mixed air from the port.

- We recommend that you implement air purge about once a month to prevent nozzle clogging before it happens, so that the machine can be used comfortably.

1 **Tap the [Air PG] tab on the Maintenance screen.**

- The following screen appears. Check the waste ink tank.

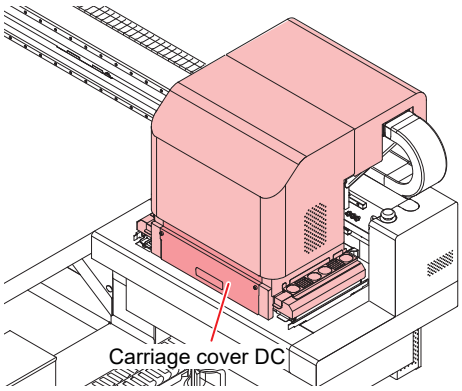


2 **Tap**  **.**

3 **Choose a head.**

- After the Y-bar moves all the way to the front, the carriage moves above the wiper.

4 **Open the carriage cover DC.**



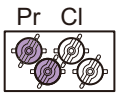
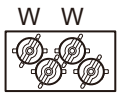
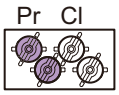
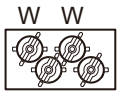
Important!

- After the work is complete, quickly attach the removed cover. If you leave it removed for a long time, ultra-violet rays may affect the ink.

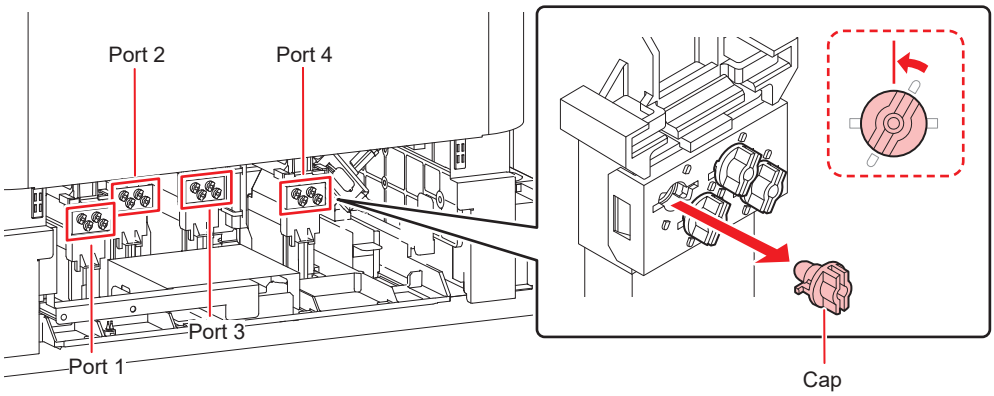
5 **Remove the cap from the target port.**

- Port layout is shown in the following figure.

	Head 1	Head 2	Head 3	Head 4
4-color	C Y M K	C Y M K	Y M K C	Y M K C

4-Color + W + Pr + Cl				
6-Color + Fp + Fy + W + Cl + Pr				

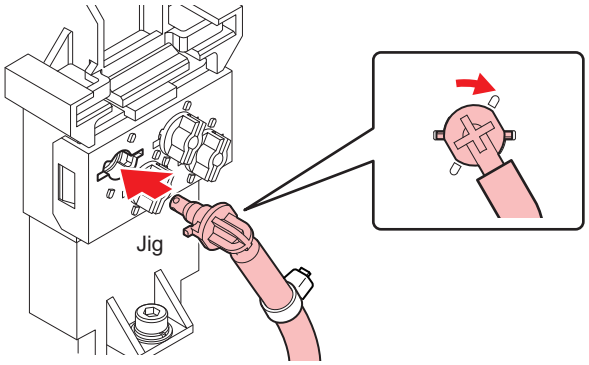
- Turn the cap 30° counterclockwise and then remove it.
- Ink is stuck on the removed cap. Temporarily place it on a paper towel, etc. to avoid contamination of the surrounding area.
- Perform air purge for each head. Do not remove the caps of head 2, head 3, or head 4 when performing air purge for head 1.



- The internal mechanism does not let the ink spill out even if the cap is removed.

6 Connect the air purge jig (SP-01046) that comes with the main unit to the port.

- Similar to the cap, connect the jig by pushing the tip into the port and rotating it clockwise by 30°.

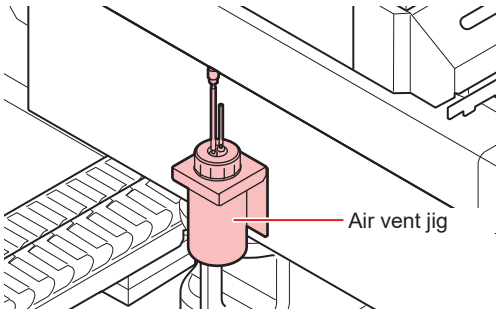


Insert the jig into the air purge port and secure it in place.

- It is possible to purge air from two ports on the same head at once.

Important!

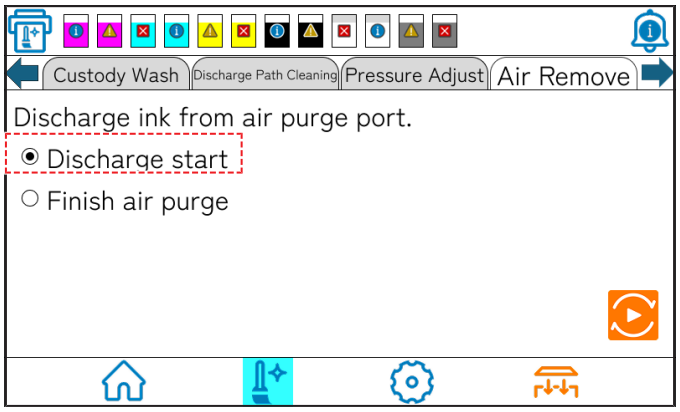
- There is a magnet attached to the bottle of the air vent jig. When purging the air, attach the jig as low as possible on the cover as shown in the diagram below.



- Be sure to connect the jig to any two ports on the same head. If you purge air by connecting the jig to only one port, ink may leak out from the other port.
- Be sure to drain the ink from the bottle in the jig after approximately every three air purges. If too much ink is allowed to accumulate in the bottle, the excessive weight may cause the jig attached to the cover to fall.

7 **Tap** .

8 **Select [Discharge start] and then tap** .



9 **Release the colored ink or the air mixed in the ink.**

- Tap . At this time, the machine is opened to the atmosphere, causing the ink to be forcefully discharged.
- Allow it to discharge until the colored ink or the air in the ink is completely gone. Thereafter, ink without any mixed colors will be discharged.
- The buzzer sound goes off at regular intervals while the ink is being discharged. (This takes approximately 45 seconds each time.)

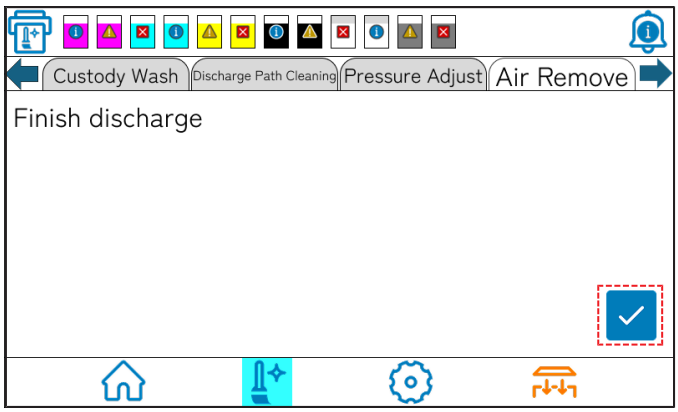
- If the ink does not flow out of the port, temporarily place the jig on the floor to purge the air. Once the ink starts flowing, reattach it to the cover.

- Please note that if the jig is left on the floor after the air is purged, the ink inside the head may flow into the jig under its own weight, allowing air to enter the head.

10 **Perform Step 9 for all ports from which air is purged.**

- The carriage may moves quickly at times. Keep your hands, head, or your body away from the carriage.

11 **When the following screen appears, tap .**

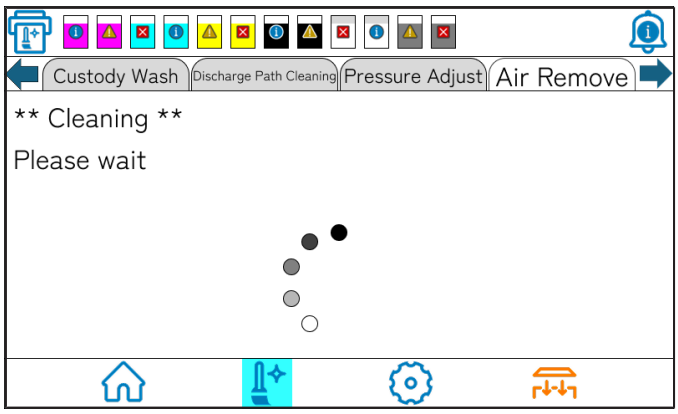


12 **Remove the jig and re-attach the cap.**

- Re-attach the cap immediately after removing the jig.

13 **After attaching the cap, tap .**

- Negative pressure control restarts and wiping begins.



14 **When the following screen appears, tap .**



15 **Close the carriage cover DC.**

Important!

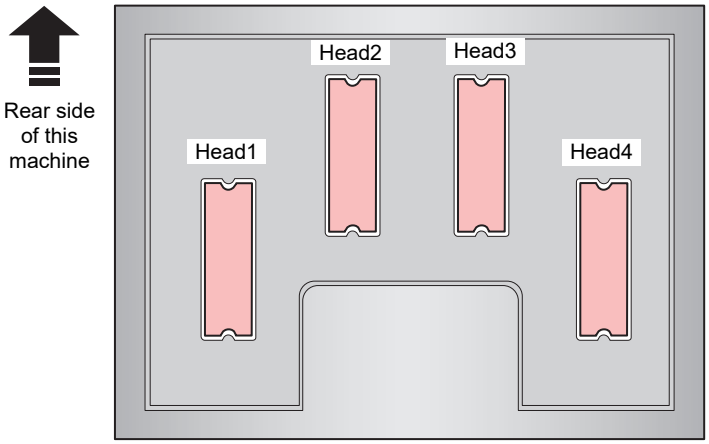
- After the work is complete, quickly attach the removed cover. If you leave it removed for a long time, ultra-violet rays may affect the ink.
- After use, drain the ink from the jig tubing and bottle, and store the jig in a place that is not exposed to light.

Nozzle Recovery Function

If nozzle clogging cannot be improved at the specified points, other good nozzles can be used as alternatives (nozzle recovery) for printing.

The structure of the head is as shown in the following figure.

With the nozzle recovery function, you can set nozzle recovery by specifying the nozzle lines for heads 1 to 4 respectively.

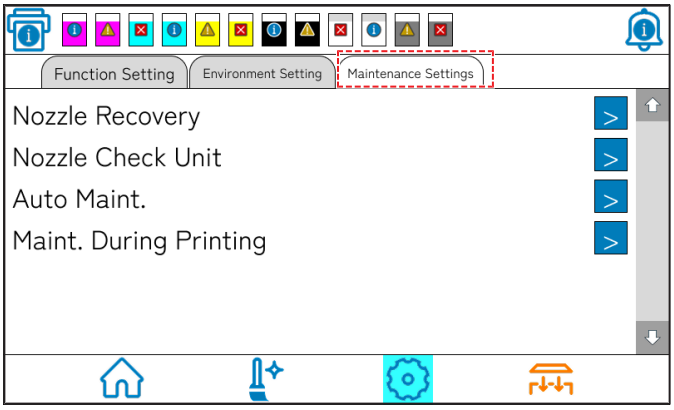


- The machine is equipped with four nozzle lines (A, B, C, and D) for each head.

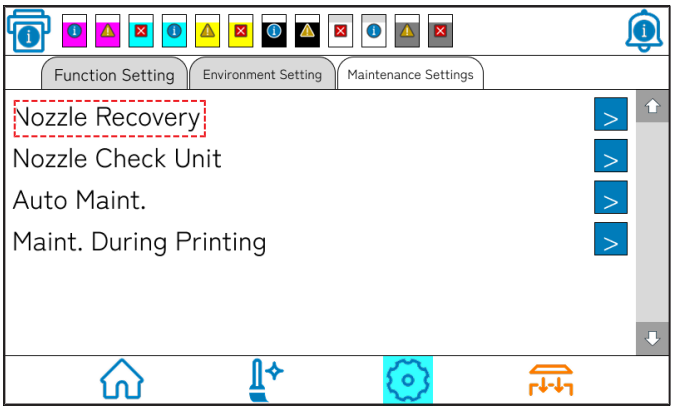


Print and Check the Pattern

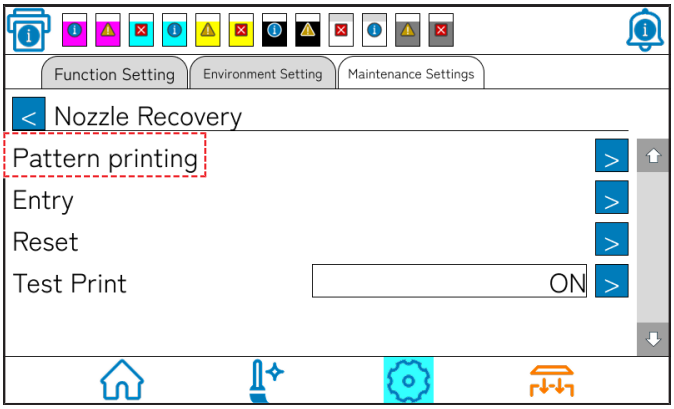
1 **Tap the [Maintenance Settings] tab on the Setting screen.**



2 Tap [Nozzle Recovery].

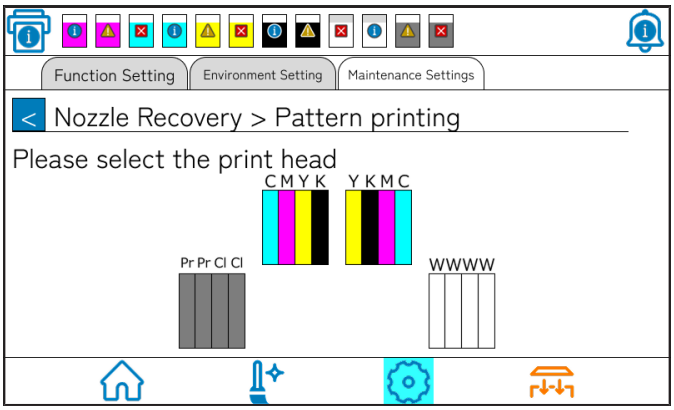


3 Tap [Pattern Printing].



4 Select the print head.

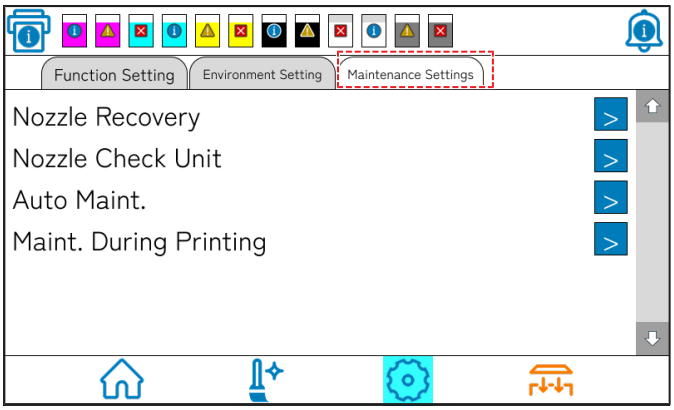
- The nozzle pattern is printed.



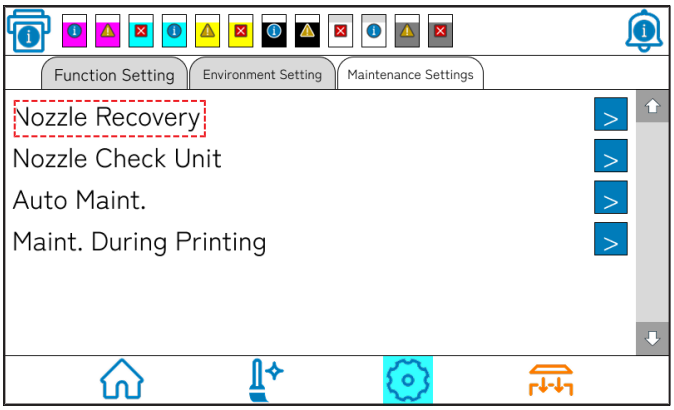
- When using white ink, print on clear film to check.

Nozzle Recovery Registration

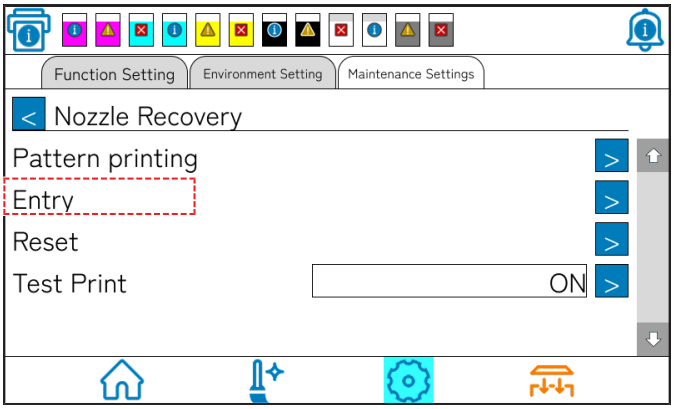
1 **Tap the [Maintenance Settings] tab on the Setting screen.**



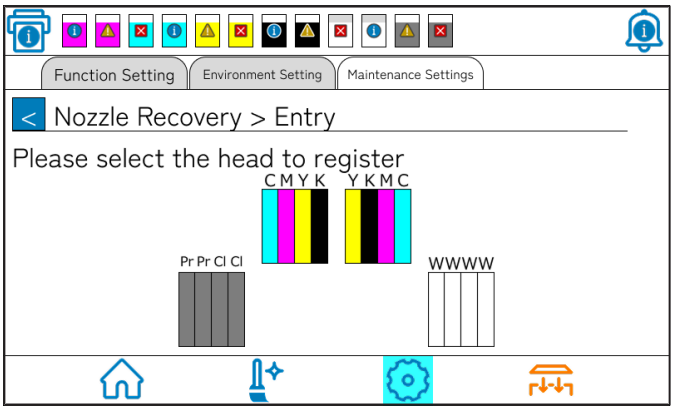
2 **Tap [Nozzle Recovery].**



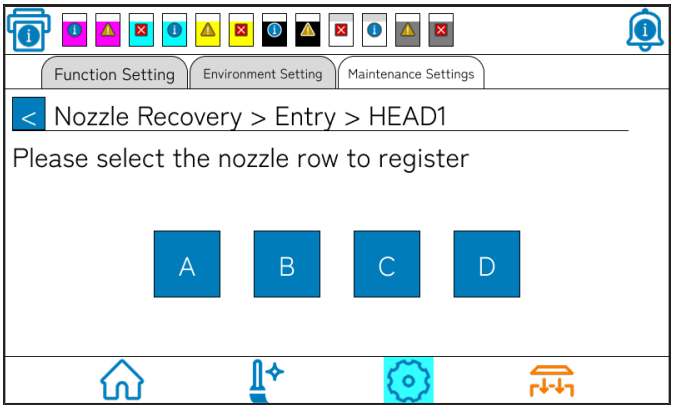
3 **Tap [Entry].**



4 **Select the head you wish to register.**

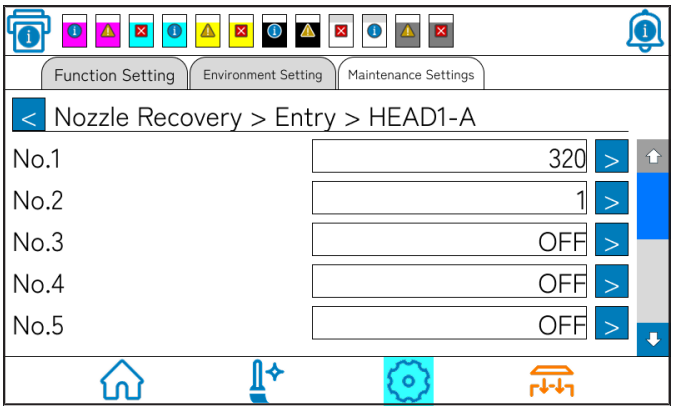


5 **Select the nozzle line to be subject to nozzle recovery.**

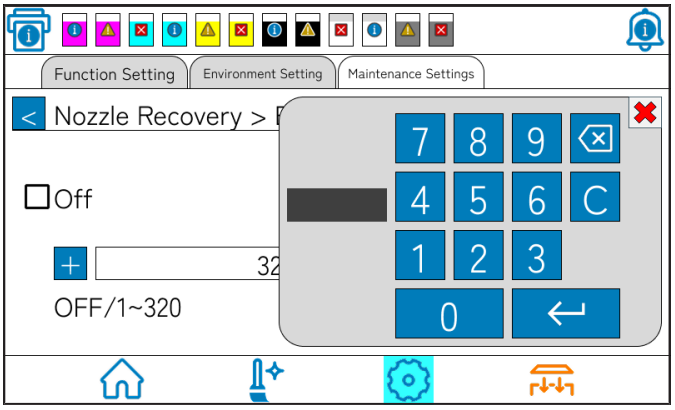


6 Register the nozzle numbers to be subject to recovery.

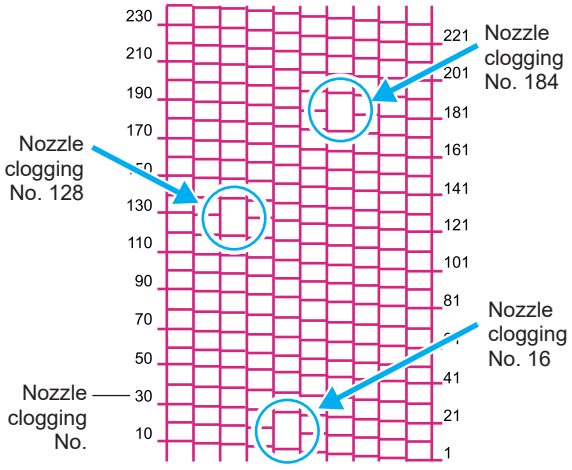
(1) Select a registration number (No. 1 to 10).



(2) Tap + - or enter a number to register the nozzle number to be subject to recovery.



- Example of registration of nozzle for recovery



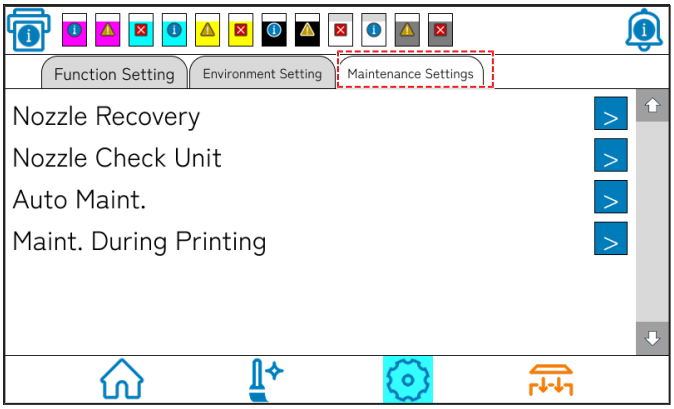
Registration No.	Recovery nozzle No.	Status
1	16	Target for nozzle recovery
2	128	Target for nozzle recovery
3	184	Target for nozzle recovery
4	OFF	No registration
5	OFF	No registration

Important!

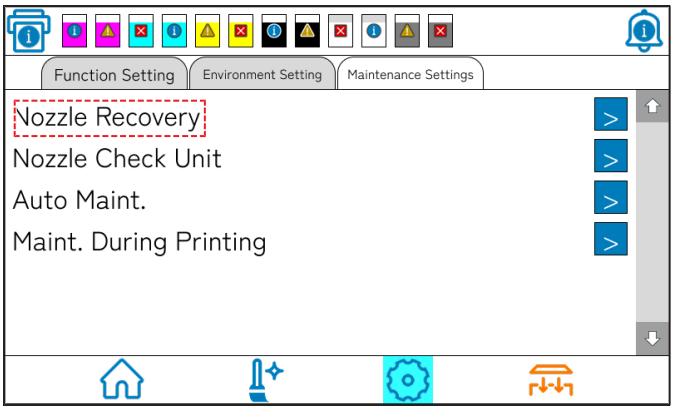
- Up to 10 nozzles can be registered for each nozzle line.
- Time required for printing does not change even if you use this function.
- The nozzle recovery function is invalid for the lowest number of paths in the printing conditions.
- Even if you register nozzle recovery, the pattern of test print and the likes is not recovered.

Resetting the Settings

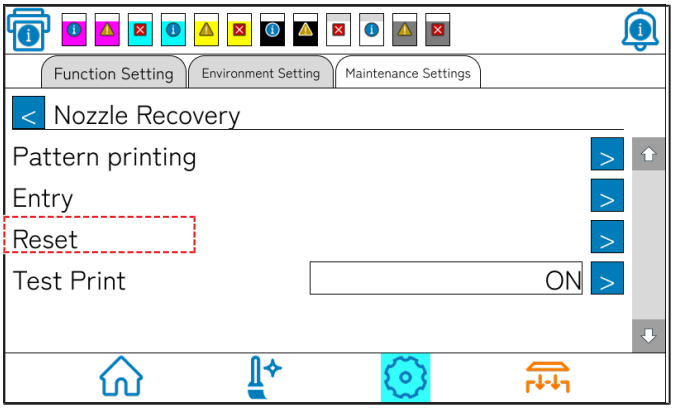
1 **Tap the [Maintenance Settings] tab on the Setting screen.**



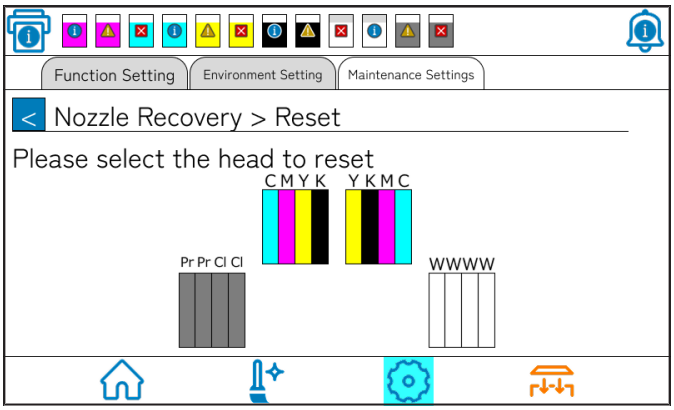
2 **Tap [Nozzle Recovery].**



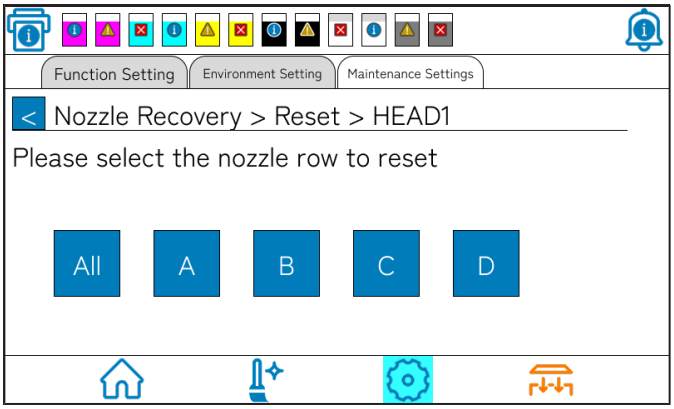
3 **Select [Reset].**



4 **Select the head for which you want to reset the settings.**



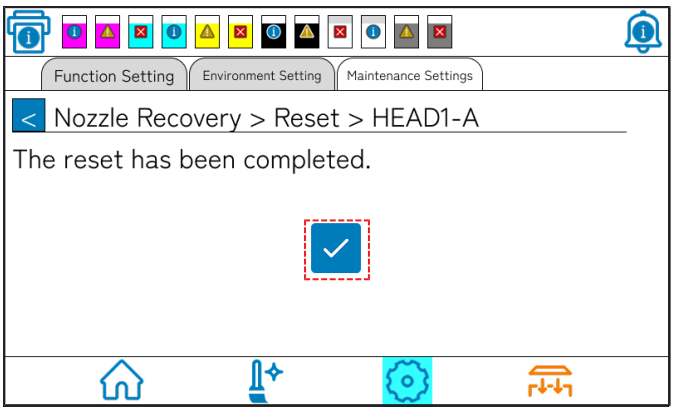
5 **Select the nozzle line to have its settings reset.**



6 **When the following screen appears, tap**  **.**



7 When the following screen appears, tap  to complete the process.



6. Automatic Maintenance Function

To use this machine comfortably, you can set the various maintenance functions to be run automatically.

Here, set performing intervals of various automatic maintenance functions.

Issues such as ink clogging can be avoided by performing automatic maintenance periodically. (Automatic maintenance function)

For automatic maintenance function, you can make the following settings.

Important!

- When maintenance is performed manually, after it is complete and when the time set with the automatic maintenance function has passed, maintenance starts automatically.

Function name	Description
Refresh	The interval between each refresh operation is set.
Cleaning	Cleaning type and the interval between each cleaning operation are set.

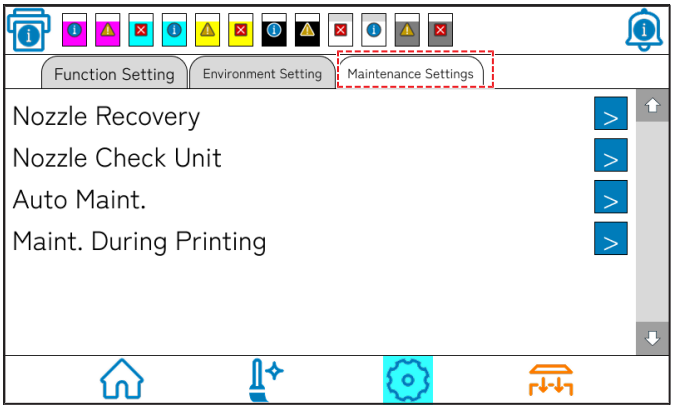
Important!

- When the "Check Waste Ink Tank" message is displayed, the operation set in the automatic maintenance function is not carried out. Perform the operations of☞ "Disposing the Waste Ink"(P. 55) as required.
- When the power button on the front of the machine is turned off, check the waste ink tank.

Setting the refresh intervals

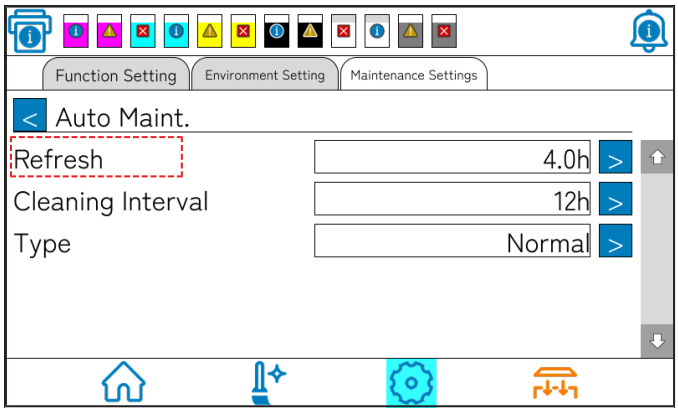
An interval is set between each operation of ejecting small amount of ink from the nozzles to prevent nozzle clogging.

1 **Tap the [Maintenance Settings] tab on the Setting screen.**



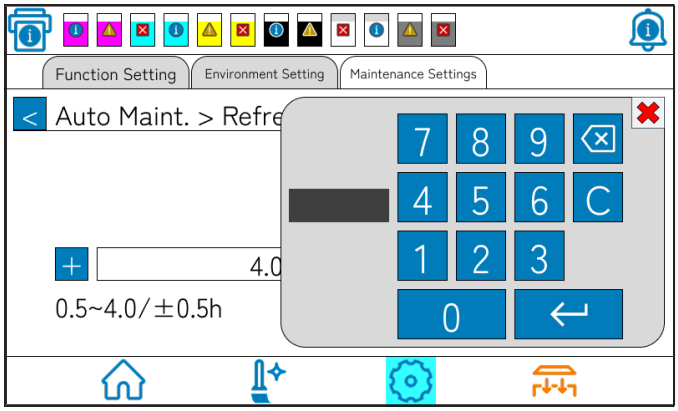
2 **Tap [Auto Maint.].**

3 **Tap [Refresh].**



4 **Tap [+] [-] or enter a number to set the refresh interval.**

- Available settings: 0.5 h to 4.0 h
- Recommended value: 1.0 h

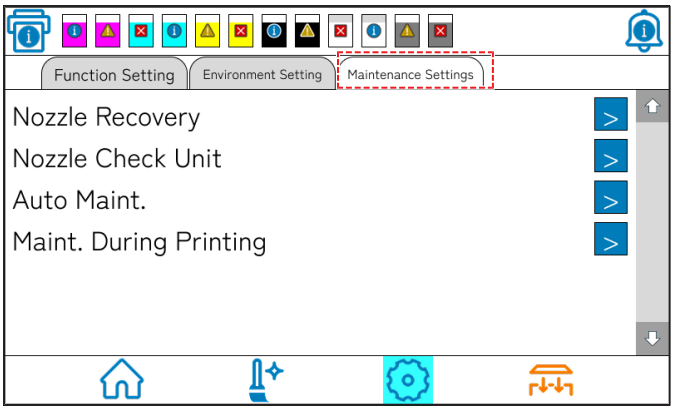


5 **Tap [✓].**

Setting the Cleaning Interval

Cleaning type and the interval between each cleaning operation are set.

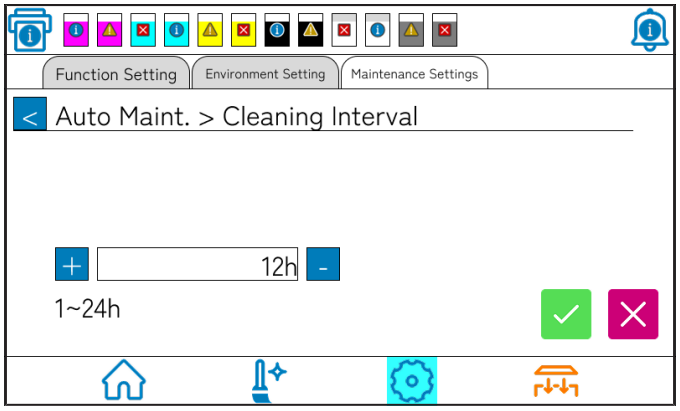
1 **Tap the [Maintenance Settings] tab on the Setting screen.**



2 **Tap [Auto Maint.].**

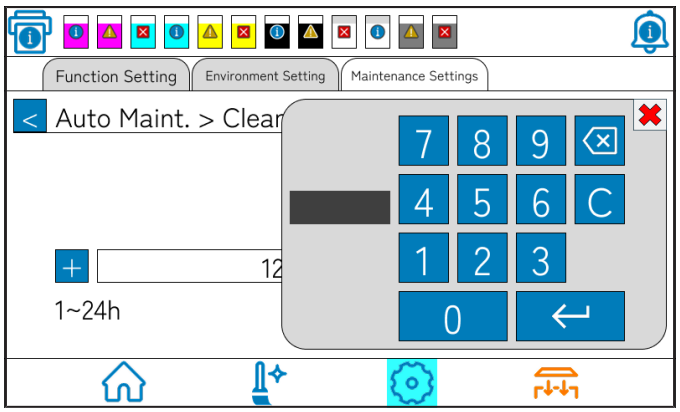
3 **Tap [Cleaning Interval].**

- The following screen appears.



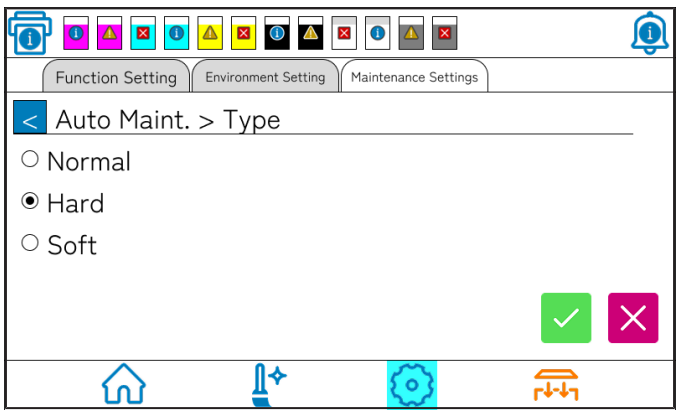
4 **Tap [+] [-] or enter a number to set the cleaning interval.**

- Available settings: 1 h to 24 h
- Recommended value: 12 h



5 **Select the cleaning type.**

- Available settings: NORMAL, SOFT, HARD
- Recommended setting: SOFT



6 **Tap [✓].**

7. Consumable Item Replacement

To order replacement consumable items, contact your local dealer or our service office.
For more information on consumable items, refer to our website.
https://mimaki.com/supply/inkjet.html

Replacing the wiper

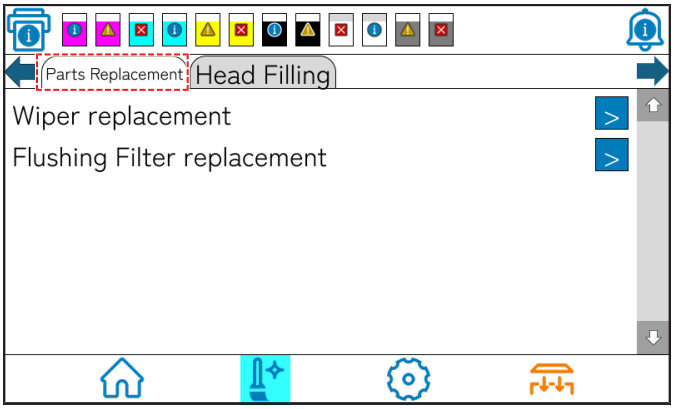
The wiper is a consumable good. If the "Replace Wiper" message is displayed, replace the wiper as soon as possible.

Also, wipe the ink sticking to the lower surface of the slider.

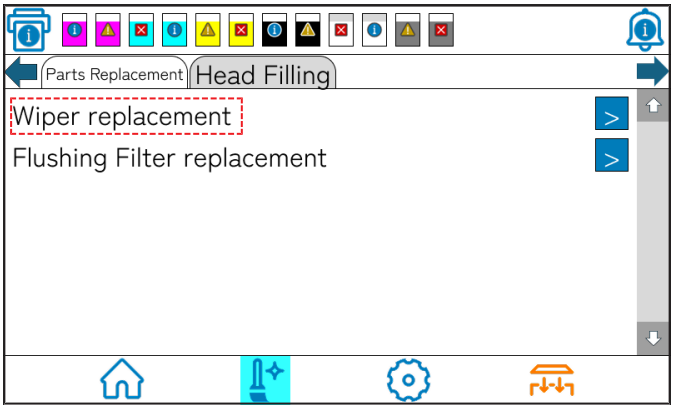
Important!

- Cleaning wipers are sold separately. Purchase one from your local distributor or our sales office.

1 If the message appears, tap the [Parts Replacement] tab on the Maintenance screen.

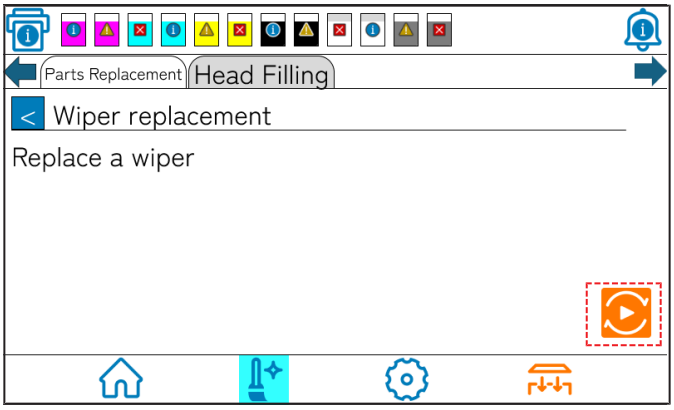


2 Tap [Wiper replacement].



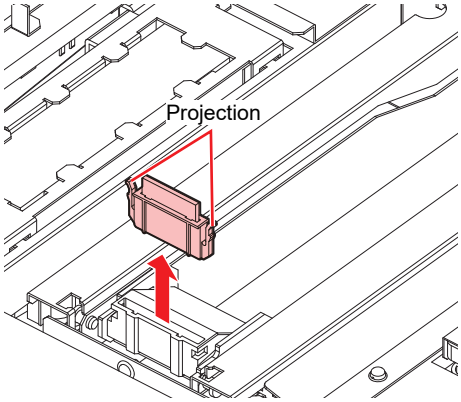
3 **When the following screen appears, tap .**

- Carriage moves onto the table.



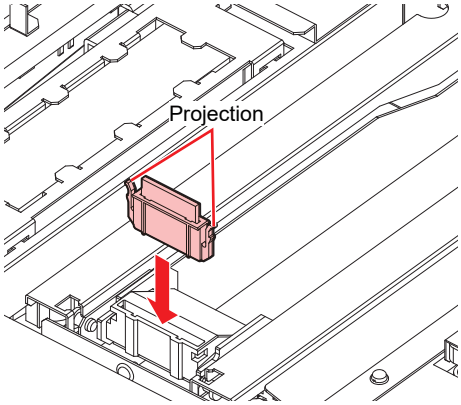
4 **Remove the wiper.**

- Pull out the wiper by holding the protrusions at both the ends.



5 **Insert a new wiper**

- Insert the wiper by holding the protrusions at both the ends.



6 **After replacing the wiper, tap .**

Replacing Carriage Filters

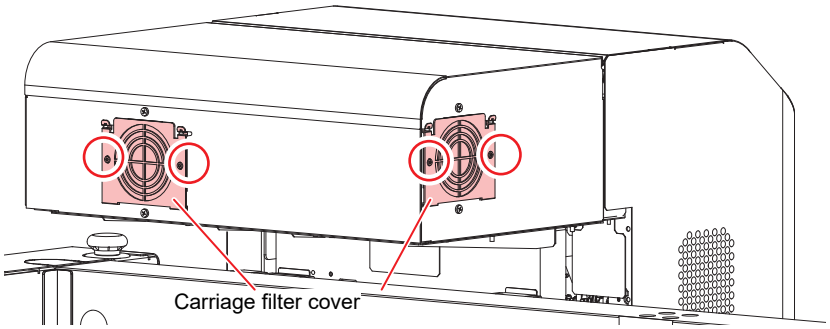
Replace the filters once every 1 or 2 weeks.

- Turn off the main power supply before carrying out maintenance.

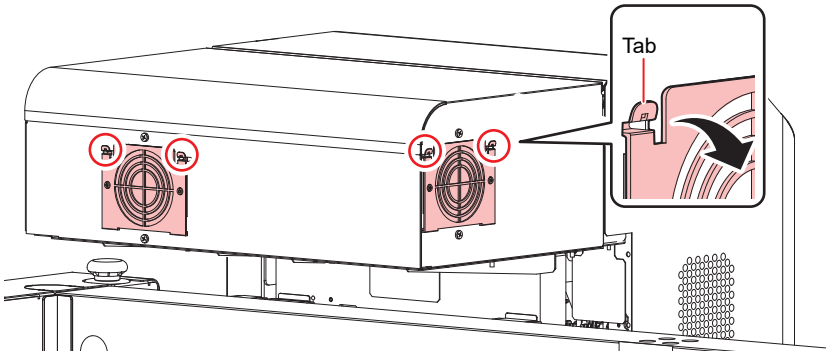
1 Remove the carriage filter covers.

- Remove the carriage filter covers located on the left and rear sides of the carriage.

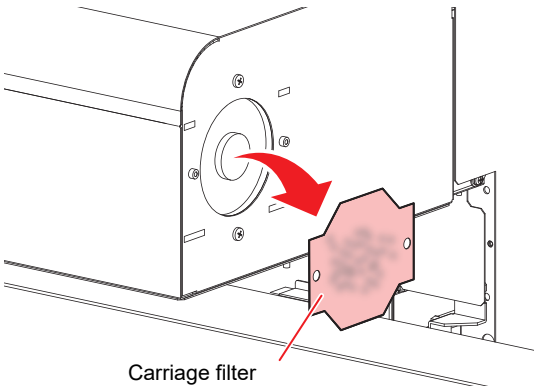
(1) Remove the screws (two for each cover).



(2) Pull on the tabs on the top of the carriage filter cover and pull it toward you.

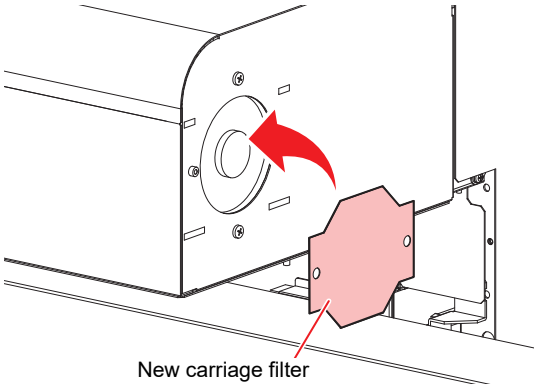


2 Remove the used carriage filter.



3 **Install the new carriage filter (PN : SPA-0189).**

- Place the holes on the left and right sides of each carriage filter over the protrusions on the carriage.



Important!
- Carriage filters are located on the left and rear sides of the carriage. Replace all the filters at same time.

4 **Return the carriage filter covers to their original positions.**

Disposing the Waste Ink

The ink used in head cleaning and other functions is stored in the waste ink tank on the lower right side of the machine. This machine is equipped with a sensor that detects the amount of ink used and displays a warning when the amount reaches a certain level. Consider replacing the waste ink tank when this message is displayed.

- The message is displayed when the remaining ink reaches 70% (2.1 liters remaining in the 2.6-liter tank).

- When disposing of the waste ink from the waste ink tank, be sure to wear the included safety glasses and gloves. Otherwise you may get ink in your eyes.

Important!
- Do not replace the waste ink tank while this machine is in operation (printing or cleaning).
- If waste ink overflows during work, wipe it off with a waste cloth.

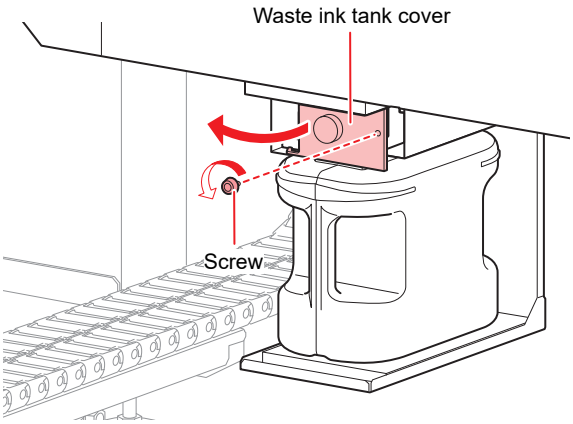
1 **Tap the [Waste Ink Tank] tab on the Maintenance screen.**



2 Tap .

3 **Open waste ink tank cover.**

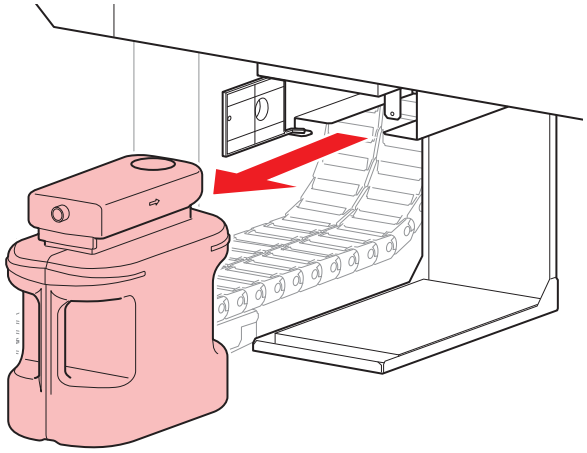
- Remove the screws on the waste ink tank cover, and open the cover to the front.



4 **Remove the waste ink tank.**

(1) Hold the handle of the waste ink tank and pull it to the front.

(2) Put a cap on the waste ink tank removed.

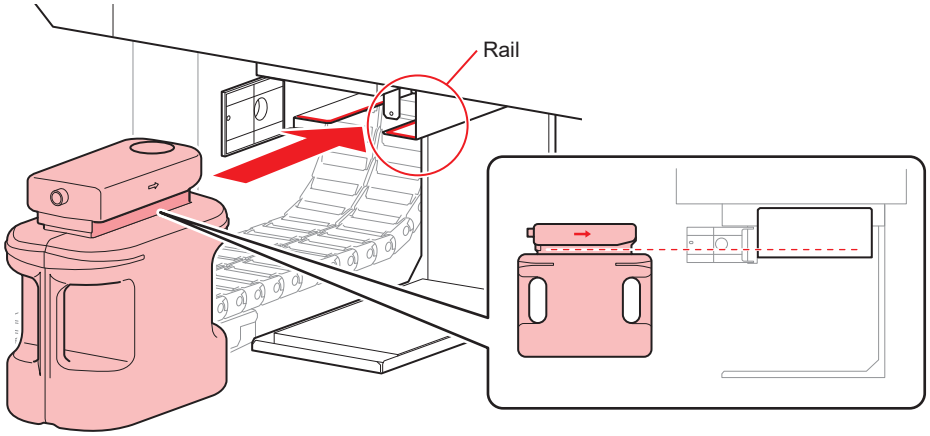


5 **After replacing the waste ink tank, tap** .

6 Replace the waste ink tank.

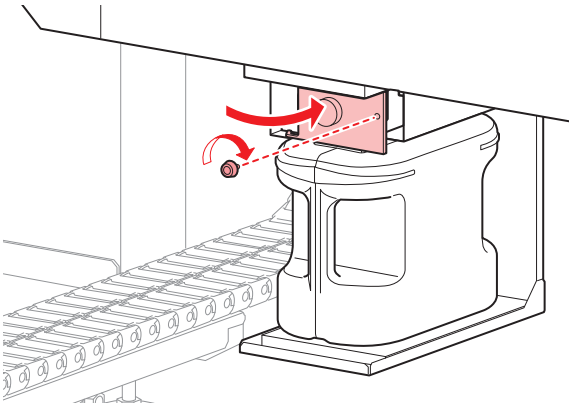
(1) Prepare a new waste ink tank.

(2) Lift the waste ink tank and check that it is set just below the drain port.



- Request an industrial waste processor to process the waste ink.
- Some of the components of (photopolymerization initiator) waste ink are poisonous to aquatic organisms. Prevent leakage flow to natural water bodies (such as rivers) and domestic sewages (such as toilets, roads).

7 Close the waste ink tank cover.



8 Tap .

Ink Bottle Cap Replacement

As a guideline, replace annually. For replacement instructions, see Replacing an Ink Bottle.



- Pay close attention to ventilation and be sure to wear safety glasses, gloves, and a mask when handling ink, maintenance liquid, waste ink, or other solutions used with the machine. Leaking ink may adhere to the skin or get into the eyes or mouth.

Mist Filter Replacement



- Be sure to wear the included safety glasses and gloves when performing this procedure. Otherwise you may get ink in your eyes.

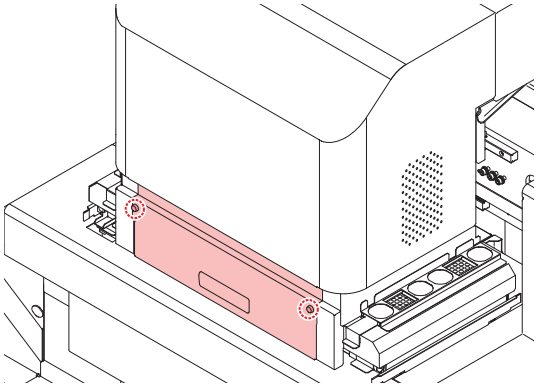
Check the mist filter. Replace if very dirty.

1 Remove the carriage cover DC.

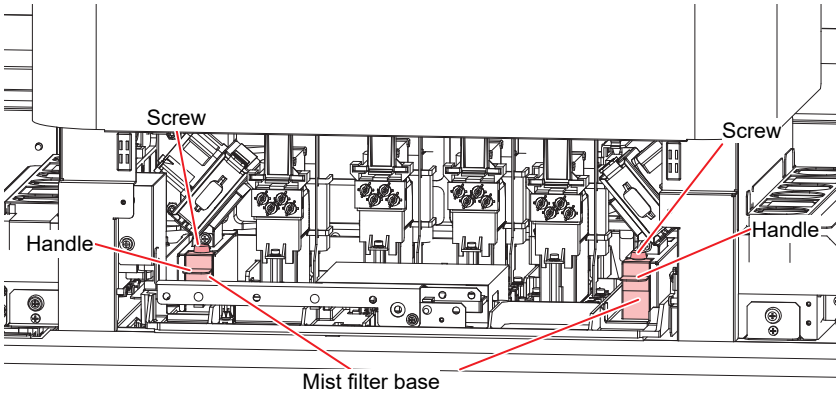
- Remove the screws (2 places) and remove the cover.

Important!

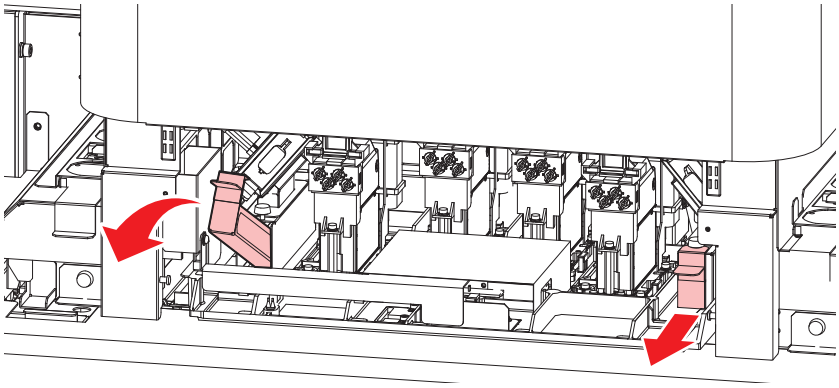
- After the work is complete, quickly attach the removed cover. If you leave it removed for a long time, ultra-violet rays may affect the ink.



2 Loosen the retaining screws and pull out the mist filter base.



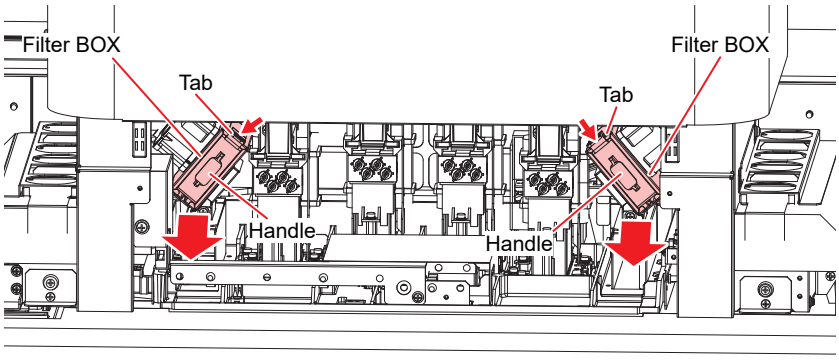
- Pull out the left side while lifting it upward.



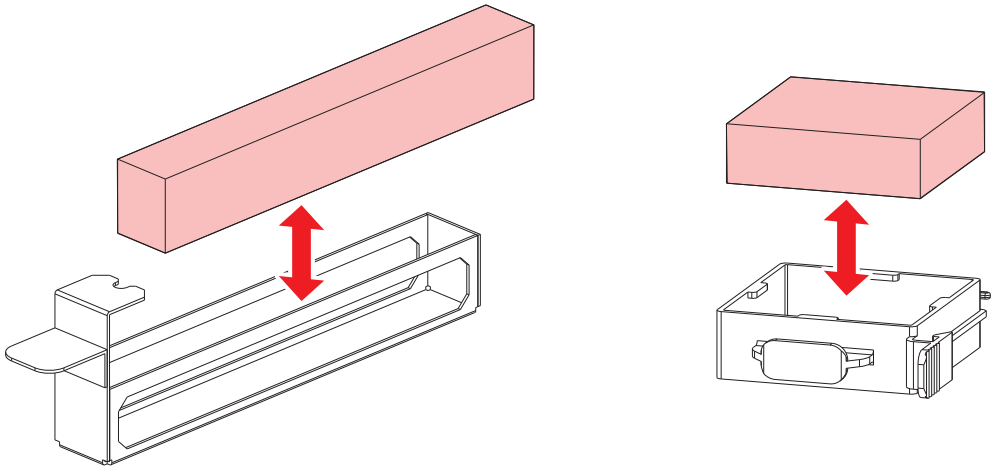
3 **Pull out the filter box.**

- Press down on the tabs and slide it in the direction of the arrow to remove it.

- Lift it in the direction of the tabs, and it will come off easily.



4 **Replace any filter that needs to be changed (Part No.: SPC-819) with a new one.**



5 **Insert the mist filter base.**

6 **Tighten the retaining screws that were removed in Step 2.**

7 **Insert the filter box.**

- Insert until it clicks into place. Confirm that the tab is engaged.

- Take care during the installation, as the left and right sides have different orientations.

8 **Close the carriage cover DC.**

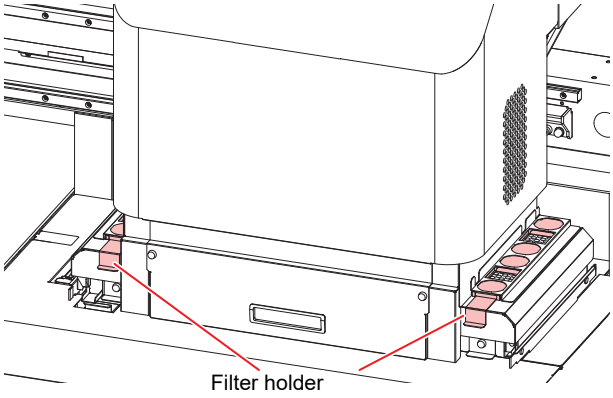
UV LED Filter Replacement



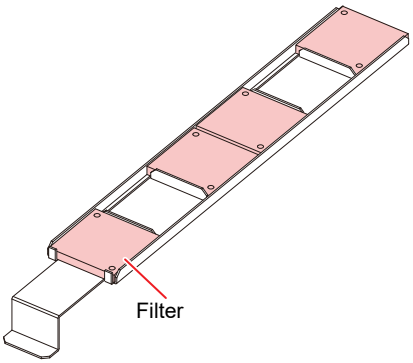

- Be sure to wear the included safety glasses and gloves when performing this procedure. Otherwise you may get ink in your eyes.

Check the condition of the UV LED filters and replace them if they are heavily soiled.

1 Pull out the filter holder.



2 Replace with four new filters on both sides (Part No.: SPC-01044).



3 Return the filter holders to their original position.



- Insert them all the way in and ensure that they are secured by the magnet.

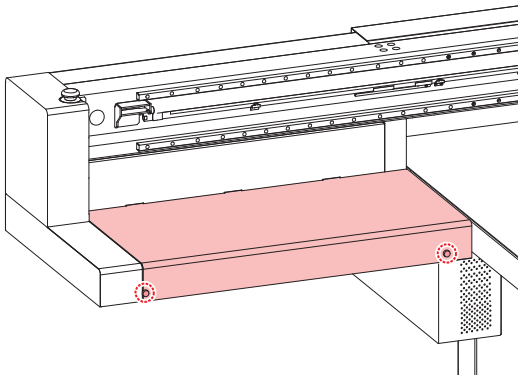
UV-LED Unit Glass Replacement

Check the condition of the UV-LED unit glass and replace it if it is heavily soiled, broken, or cracked.

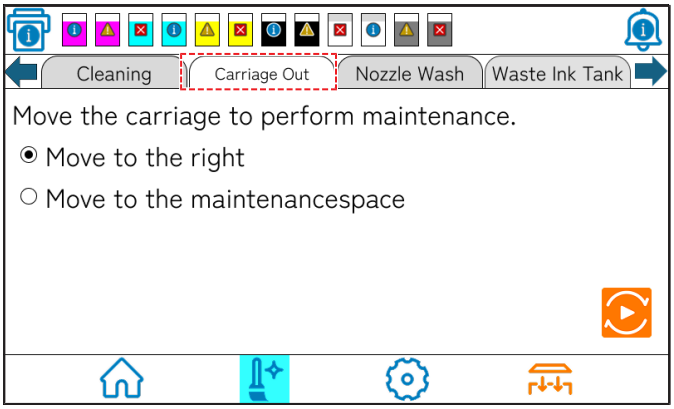
- This component is mainly made of glass. When handling it, take care to avoid damaging or hitting it.
- The UV-LED unit becomes very hot. Before starting maintenance, turn off the UV-LED unit and wait until it cools down sufficiently. There is a risk of burns.
- Be sure to wear the included safety glasses and gloves when performing this procedure. Otherwise you may get ink in your eyes.

1 Remove the cover on the right side of the Y-bar.

- Remove the decorative screws (2 places) and then remove the cover.



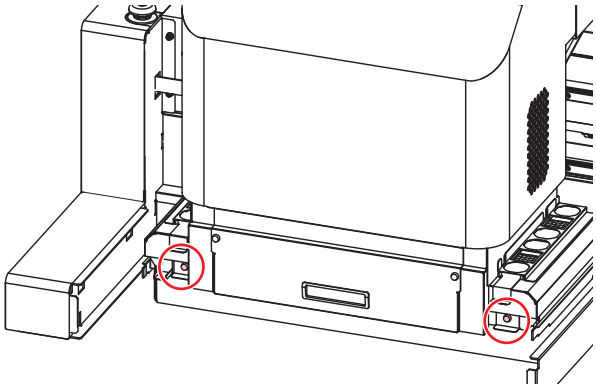
2 Tap [Carriage Out] on the Maintenance screen.



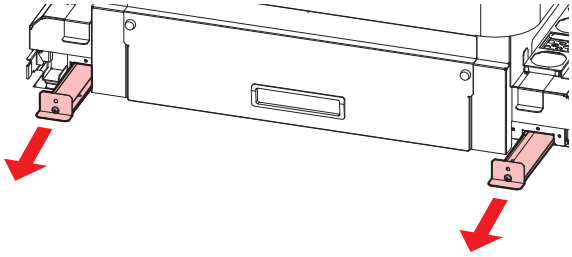
3 Select [Move to the maintenance space].

- Carriage moves to the left edge of the machine.

4 **Remove the screw.**



5 **Pull out the UV-LED unit glass.**



6 **Insert the new UV-LED unit glass.**

- Left UV-LED unit glass Part No.: SP-01042
- Right UV-LED unit glass Part No.: SP-01043

- Do not touch the glass surface.
- Take care during the installation, as the left and right sides have different orientations.
- If the glass is cracked or broken, handle it with care to prevent any glass shards from falling and causing injury.

7 **Tighten the screw.**

8. Flushing Filter

Tools required for replacement	• F-200/LF-200 Washing Liquid (PN : SPC-0568)	• Safety glasses
	• Waste cloth	• Gloves




- Be sure to wear the included safety glasses and gloves when performing replacement. As there is ink absorbed in the flushing filter, it may get in your eyes.

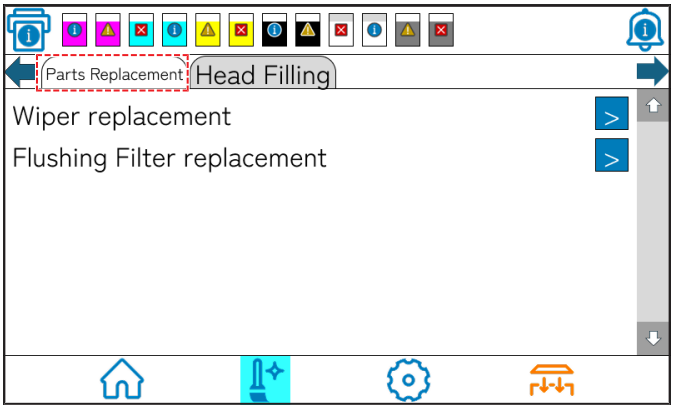
Replacing the Flushing Filter

The flushing filter needs to be replaced periodically.

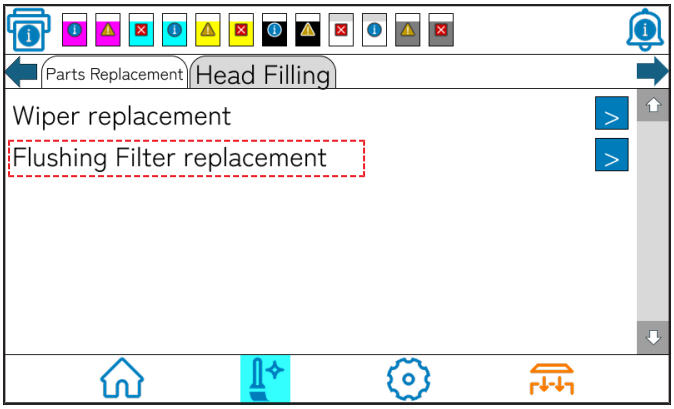
Replace the RF absorbent material (flushing filter; PN: SPC-0768) if a message advising replacement appears (as shown in the following figure).

1 **When it's time to replace the flushing filter, the "Replace flushing filter" message will appear.**

2 **If the message appears, tap the [Parts Replacement] tab on the Maintenance screen.**

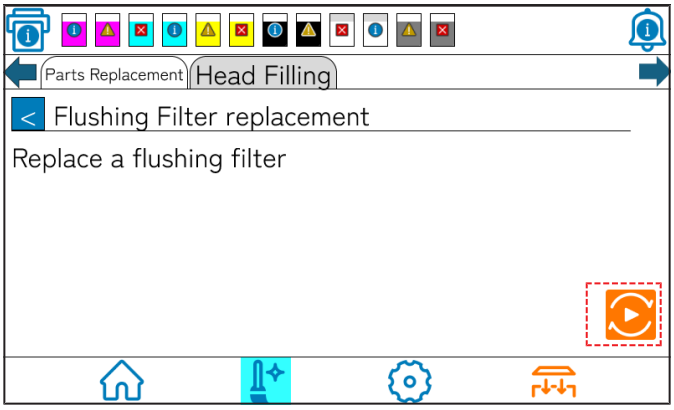


3 **Tap [Replace Flushing Filter].**

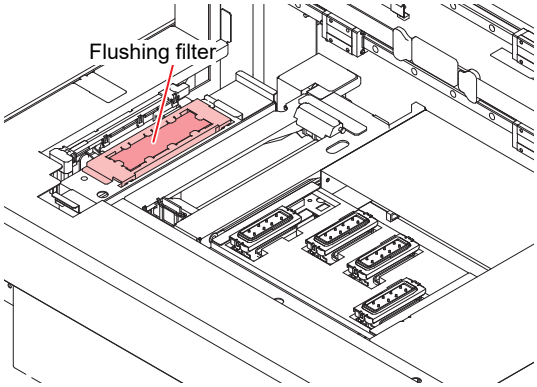


4 **When the following screen appears, tap .**

- The carriage will move.



5 **Replace the flushing filter.**



6 **Once the replacement is complete, tap .**

- The carriage will return to the station.

JFX220-2515 Care and Maintenance

November, 2026

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