



Mutoh XpertJet models: Regular maintenance when using Mutoh UMS ink

Dear customer,

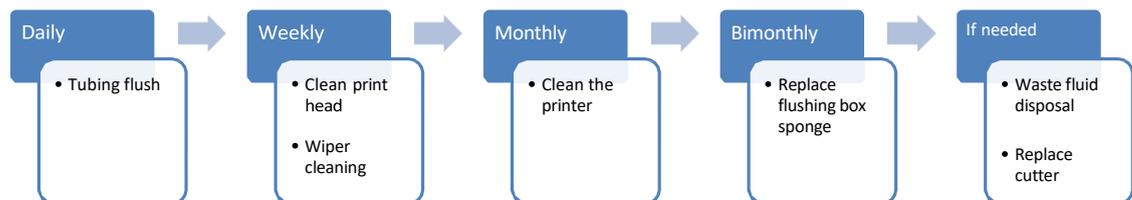
Each ink has its own specific drying speed and drying characteristics, which has an influence on its periodical maintenance cycle. To maximize the life-time of all parts which are exposed to ink, it is crucial to carry out some easy but important maintenance cycles.

The most important maintenance actions are:

- Wash away ink remainders from parts which are not (easily) accessible, avoiding that the ink dries out, possibly causing blockage.
This phenomenon is a slow process which only happens in areas where soft tubing is used (capping, pumps, waste collection). It is linked to environmental temperature and to successive periods of inactivity during which the ink residue has time to dry out and eventually solidify.
- Regularly remove ink remainders from accessible parts.

Overview

When using the UMS inks on the Mutoh Xpertjets (UMS11 or VJ-LSINK1) it is important to perform periodic maintenance. This will help you maintaining excellent output quality and avoid parts to wear prematurely.



Important

- Please be aware that next to this periodical maintenance performed by the operator, a certified Mutoh Technician needs to perform yearly maintenance as well. Please contact your Authorised Mutoh Reseller for more information.

Items needed to perform the maintenance sequence:

Part number	Description
PJ-GLOV	Gloves (100 pcs.)
PP-10001	Cleaning stick (50 pcs)
1U021001	Droppers (6 pc)
B1-CON-75	Polyknit wipes (75 pcs)
RH2-CLEAN-STICK	Cleaning stick (100 pcs)
RJ80UMS-100-CLN	UMS cleaning liquid (bottle 1l)
VJ-CB	Cutter
VJ16STG-FB-W3	Flushing absorbent/Flushing Box Sponge (UMS type)

Note

- Please refer to the Operation Manual for instructions on how to:
 - Replace the 'cleaning wiper'
 - Clean the 'color sensor'
- Illustrations used in this document are based on the XPJ-1641SR. Some parts may vary depending on the printer model.

1 Performing a tubing flush

(1) Recommended frequency:

Daily

(2) Procedure:

Step 1: If the printer is powered ON, make sure that printing or other operations are not in progress.

Step 2: Display the CR Maintenance menu.

- Press the [Menu] key.
 - “Menu1: Setup>” is displayed.
 - The operation panel shifts to the Setup menu display.
- Press [>].
 - “Set1: User Type” is displayed.
- Go to “Setxx: CR Maintenance” (xx depending on model)
- Press [Enter]
- “CR Mainte.: Start” is displayed.
 - The display enters the CR Maintenance menu.

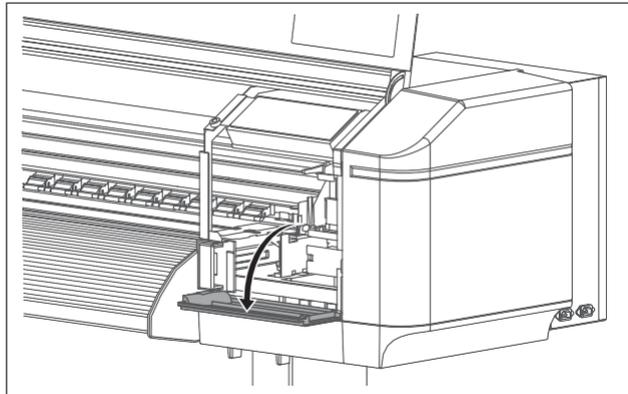
Step 3: Press the [Enter] key.

- Maintenance starts.
- The print head moves to the left.
- “CR Maintenance: End” is displayed.

Step 4: Press the [▼] key.

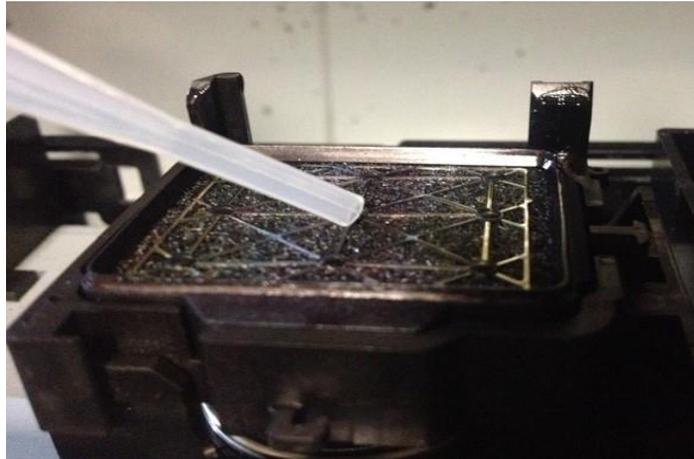
- The pumps start pumping

Step 5: Open the maintenance cover at the right side of the printer.

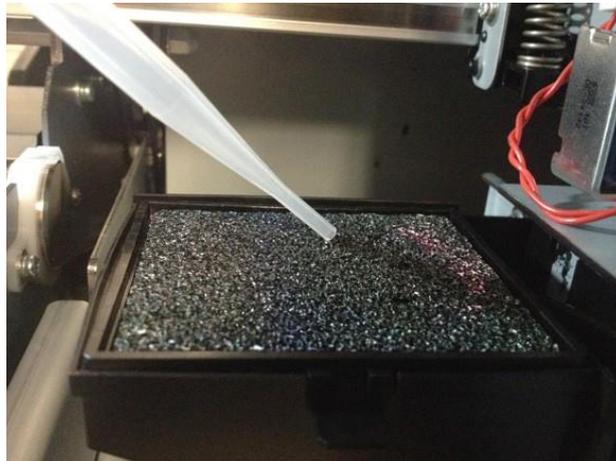


No.	Name
1	Maintenance cover

Step 6: Using a dropper filled with UMS cleaning liquid, drip about 5 ml of cleaning liquid onto the head cap unit as shown in the illustration. The cleaning liquid will be sucked into the capping unit and the connected tubing. It will remove ink remainders and prevent blocking of the tubing.



Also drip some cleaning liquid onto the spitting box sponge (not for XPJ-1341SR-P).



Important

- Repeat this action 4 times. This will result in a total tubing flush amount of around 20ml per cap.

Step 7: Press the [▼] key once again to stop the pumps.

Important

- If you do not press [▼], pumping automatically stops after 60 seconds.

Step 8: Press the [ENTER] key.

- The print head returns to the capping position.
- “CR Mainte.: Start” is displayed.

Step 9: Press the [Menu] key.

- The tube flush procedure is completed.

2 Cleaning around the print head

(1) Recommended frequency

On a weekly basis, check if no dust or dried ink (which can cause missing dots or ink leakage) is attached around the print head. If it is the case, please remove it as described.

(2) Procedure

Note

- **When cleaning around the print head, the print head is not capped in, therefore cleaning must be done before the print head dries. This operation should be done within 15 minutes.**

Step 1: If the printer is powered ON, make sure that printing or other operations are not in progress.

Step 2: Display the CR Maintenance menu.

- Press the [Menu] key.
 - “Menu1: Setup>” is displayed.
 - The operation panel shifts to the Setup menu display.
- Press [>].
 - “Set1: UserType” is displayed.
- Go to “Setxx: CR Maintenance” (xx depending on model)
- Press [Enter].
 - “CR Mainte.: Start” is displayed.
 - The display enters the CR Maintenance menu.

Step 3: Press the [Enter] key.

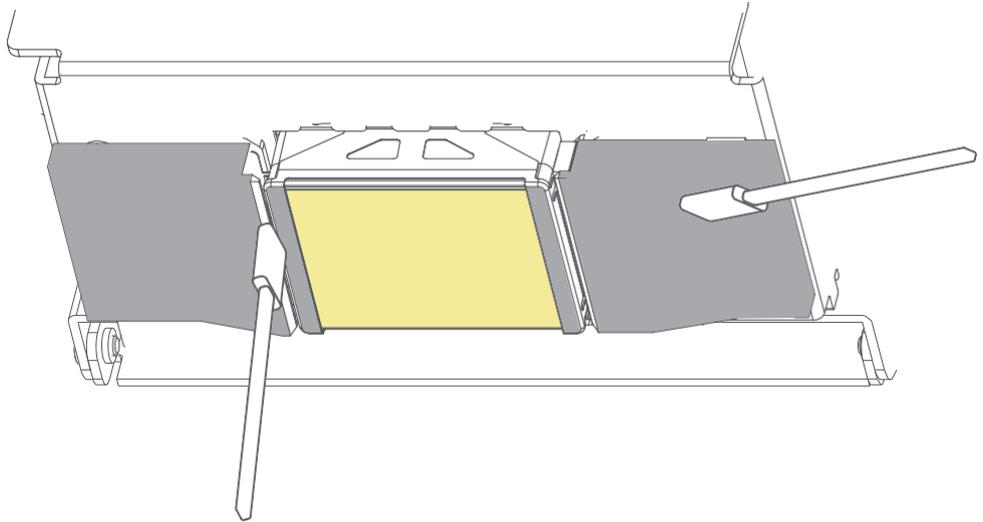
- Maintenance starts.
- The print head moves to the left.
- “CR Maintenance: End” is displayed.

Step 4: Open the left maintenance cover.

Step 5: Use the cleaning stick to remove ink deposits or dust. To facilitate the removal of dried ink you can moisten the cleaning stick with suitable cleaning liquid.

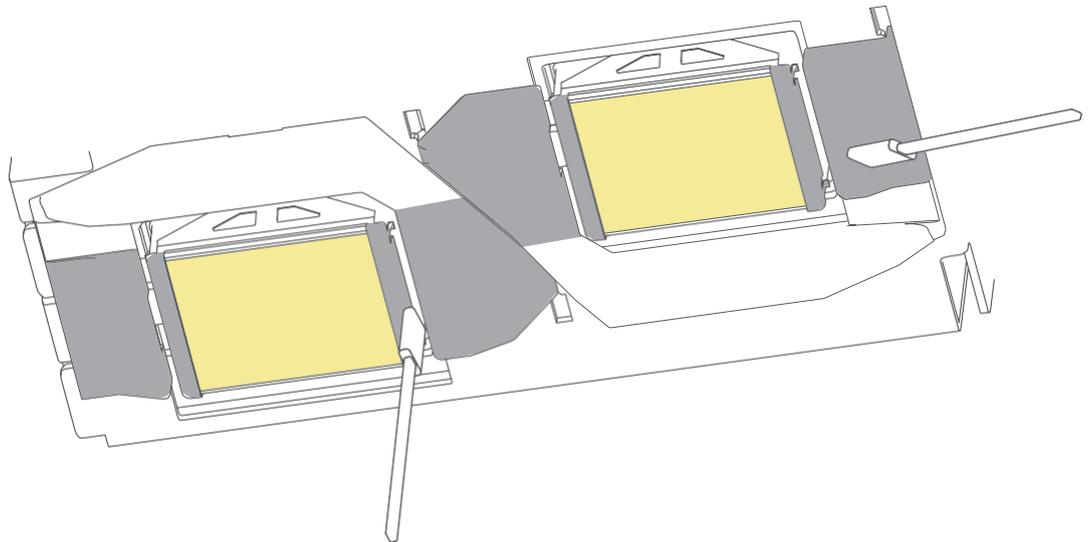
Single head unit:

-  Clean this part (grey)
-  DO NOT touch the surface of a print head (yellow)



Double head unit:

-  Clean this part (grey)
-  DO NOT touch the surface of a print head (yellow)



Caution

- **When cleaning around the print head,**
 - ◆ Do not touch the nozzle plate. Doing so may damage the print head.
 - ◆ Do not touch the tip of the cleaning stick. The print head may be damaged because of skin oil.
 - ◆ Never moisten the cleaning stick with water. Doing so may damage the print head.
 - ◆ Do not reuse the cleaning stick. The attached dust and/or ink may damage the print head.

Step 8: Close the left maintenance cover firmly to make sure it is locked.

Step 9: Press the [Enter] key.

- The print head returns to its original position.
- “CR Mainte.: Start” is displayed.

Step 10: Press the [Cancel] key.

- Cleaning around the print head is complete.

3 Cleaning the wiper

(1) Recommended frequency

Once a week, or when missing nozzles appear on the printed media after a head cleaning.

Important

- **Make sure the wiper is in optimal condition. If you do not clean the wiper regularly, ink residue will stick to the wiper (as shown below), which will lead to bad printing quality.**

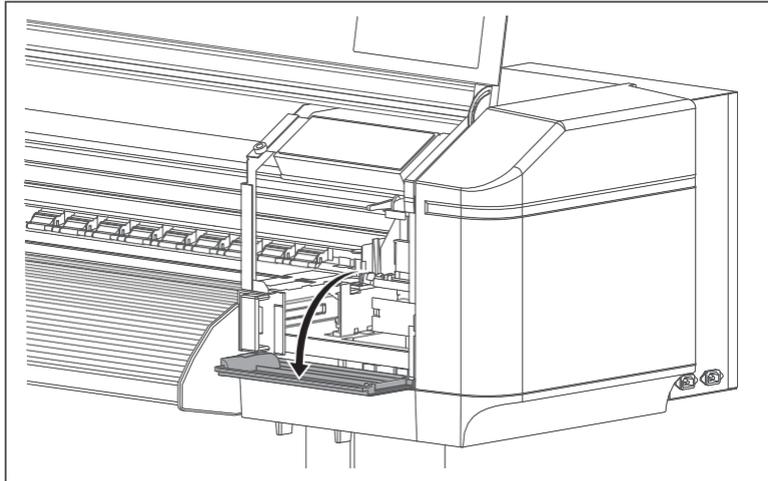


(2) Cleaning procedure

Use a cleaning stick moistened with a suitable cleaning fluid to clean the cleaning wiper.

- Step 1:** If the printer is powered ON, make sure that printing or other operations are not in progress.
- Step 2:** Display the CR Maintenance menu
- Press the [Menu] key.
 - “Menu1: Setup>” is displayed.
 - The operation panel shifts to the Setup menu display.
 - Press [>].
 - “Set1: User Type” is displayed.
 - Go to “Setxx: CR Maintenance” (xx depending on model)
 - Press [Enter].
 - “CR Mainte.: Start” is displayed.
 - The display enters the CR Maintenance menu.
- Step 3:** Press the [Enter] key.
- Maintenance starts.
 - The print head moves to the left.
 - The cleaning wiper shifts towards the front.
 - “CR Maintenance: End” is displayed.

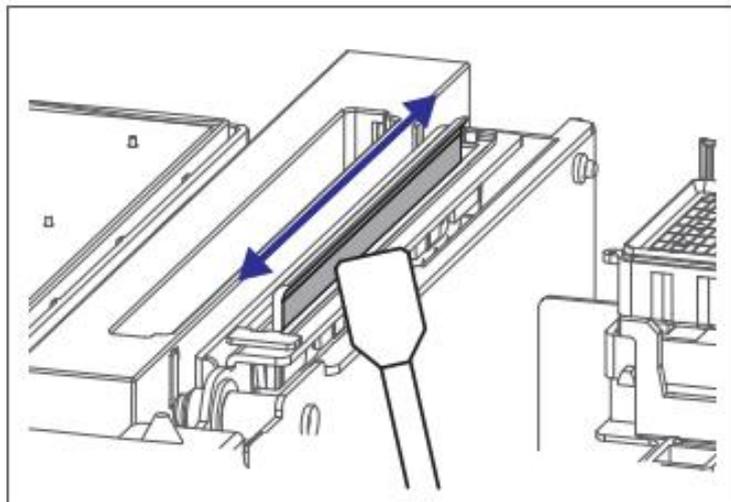
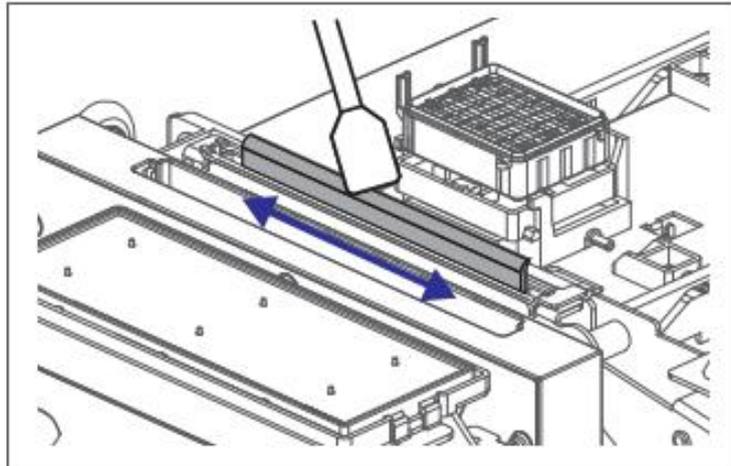
Step 4: Open the maintenance cover at the right side of the printer.



Caution

- **When cleaning the cleaning wiper**
 - ◆ Do not touch the cleaning wiper and head cap unit with your hands. Head cleaning may not be performed correctly because of skin oil.
 - ◆ Make sure to clean the wiper using the cleaning stick. A cleaning stick moistened with water may cause the print head to clog. When moistening, always use the cleaning liquid matching your ink type.
 - ◆ Do not reuse the cleaning stick. The attached dust and/or ink may damage the print head.

Step 5: Use a cleaning stick moistened with a suitable cleaning liquid to remove the ink and dust on the cleaning wiper.



Step 6: Close the right maintenance cover and front cover.

Step 7: Press the [Enter] key.

- The print head returns to its original position.
- The cleaning wiper returns to the original position.
- “CR Mainte.: Start” is displayed.

Step 8: Press the [Menu] key.

- Cleaning the cleaning wiper is complete.

4 Cleaning the printer

Periodic (every month) cleaning is necessary to keep the printer in good condition.

Important

- If substances or liquids (such as water) entered the printer, do not use the printer as it is. It could lead to an electric shock or fire. Immediately turn OFF the power switch and disconnect the power plug from the electric socket.
- When cleaning the printer, be sure to turn OFF the power and disconnect the power plug.
- Do not use volatile solvents such as thinner, benzene, or alcohol. These solvents could damage the paint.
- Do not open covers attached using screws under any circumstances. This may cause an electric shock or a malfunction.

Cleaning the outer case

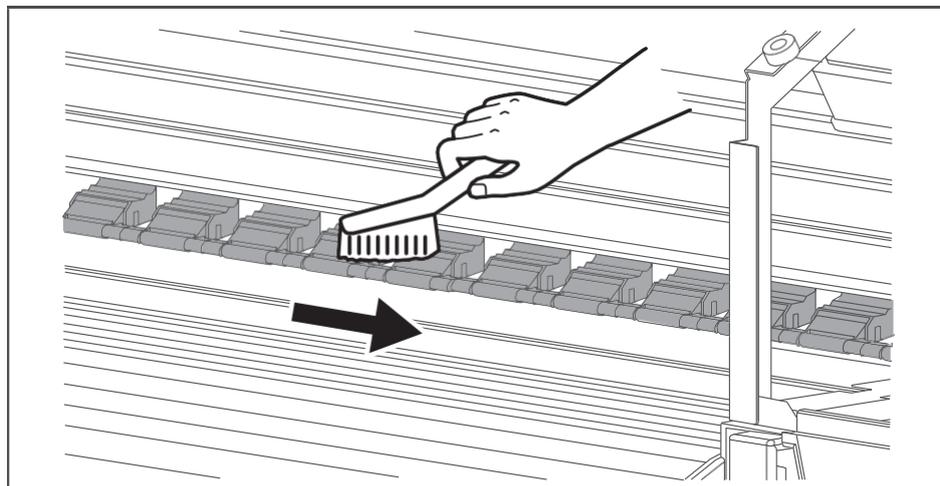
Wipe out dust and dirt attached to the outer case by using a soft cloth.

Cleaning the inside of the printer

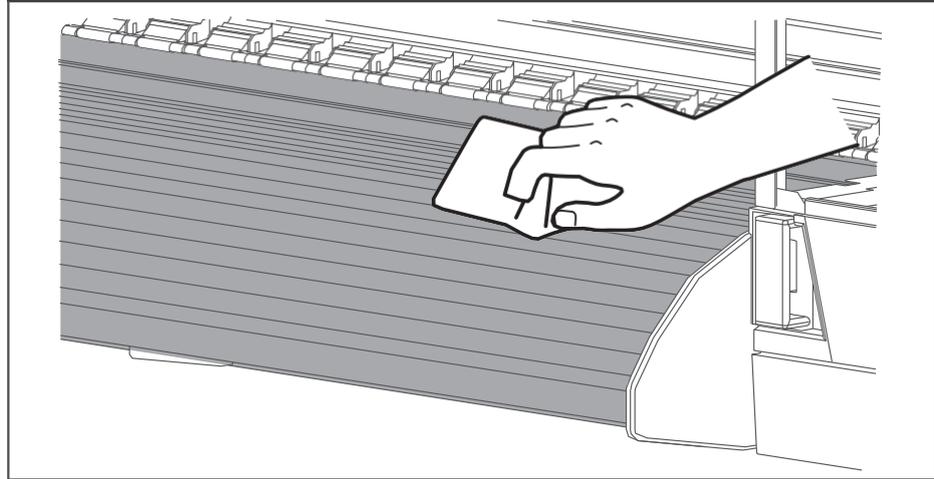
Make sure that the unit is powered off and the media has been removed.

Step 1: Open the front cover.

- Step 2:** Remove paper powder and dust attached to the pressure rollers using a soft brush.
- Do not blow paper powder inside the printer using tools such as an air duster. It may cause blockage and/or damage to the internal moving parts of the printer.



Step 3: Use a soft cloth or paper towel, slightly dampened with ethanol, to clean the platen, media guide and edge holders.



Wear protective gloves while cleaning

5 Replacing the flushing box sponge / flushing absorbent (not valid for XPJ-1341SR-P)

(1) Recommended frequency

Replace the flushing-box sponge under the following circumstances:

- When the flushing-box sponge is deformed or saturated
- When ink is being spattered on the media during printing.
- When more than two months have passed since the last replacement.

(2) Procedure

Step 1: If the printer is powered ON, make sure that printing or other operations are not in progress.

Step 2: Display the CR Maintenance menu.

- Press the [Menu] key.
 - “Menu1: Setup>” is displayed.
 - The operation panel shifts to the Setup menu display.
- Press the [>] key.
 - “Set1: User Type” is displayed.
 - Go to “Setxx: CR Maintenance” (xx depending on model)
- Press the [Enter] key.
 - “CR Mainte.: Start” is displayed.
 - The display enters the CR Maintenance menu.

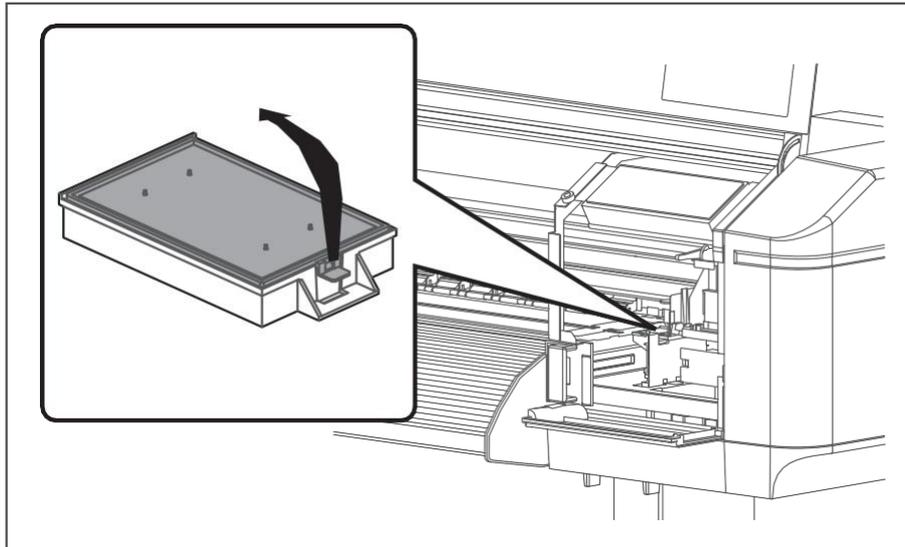
Step 3: Press the [Enter] key.

- Maintenance starts.
- Print head moves to the left.
- “CR Mainte.: End” is displayed.

Step 4: Open the front cover.

- Replace the flushing-box sponge.
Leaving the print head at the replacement position for a long time, may result in clogging of the print head. Please limit to 15 minutes (Refer to topic 2).

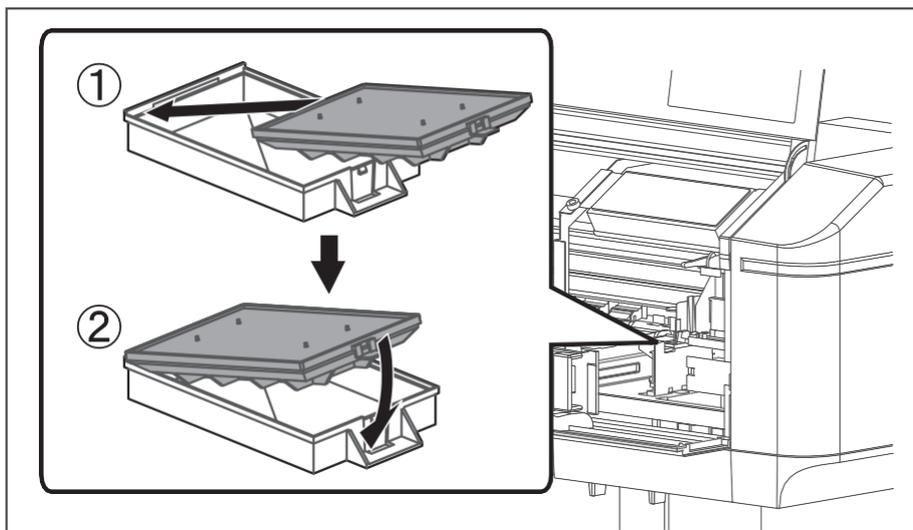
Step 5: To remove the flushing box sponge, lift the sponge tab and unhook.



Important

- Do not spill waste fluid when replacing the flushing-box sponge. If waste fluid comes into contact with the grid roller, it may damage its surface and affect media feeding.

Step 6: Install the new flushing-box sponge.



Step 7: Close the front cover.

Step 8: 8. Press the [Enter] key.

- Print head returns to its original position.
- “CR Mainte.: Start” is displayed.

Step 9: Press the [Menu] key.

- Flushing-box sponge replacement is complete.

6 Disposal of waste fluids

(1) Disposal frequency

Dispose of waste fluids in the following cases:

- When the waste fluid tank is more than half full.
- When “Waste Ink Tank Full” is displayed.

(2) Disposal method

Important

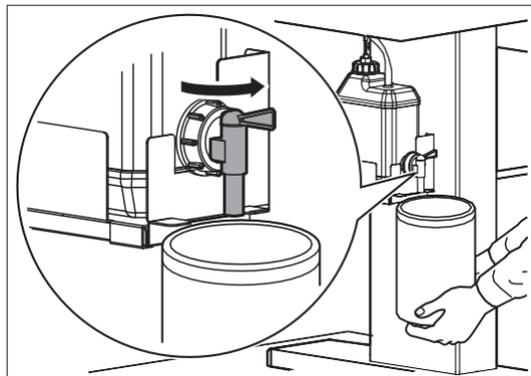
- **Please dispose according to local rules and regulations. For details, please verify the corresponding safety data sheet MSDS on the Mutoh website.**

Step 1: Provide an empty bottle/container to collect the waste fluid.

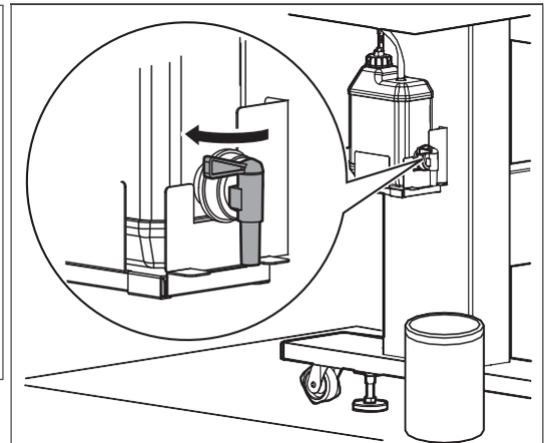
Step 2: Put some protective material on the floor under the waste fluid tank.

Step 3: Open the waste fluid tap and pour the waste fluid into the container.

- When pouring the waste fluid into the empty container, the waste fluid may spatter. Make sure to put the container close to the waste fluid tap.



open waste container



closed waste container

Step 4: After pouring the waste fluid into the empty container, close the waste fluid tap securely.

Step 5: Wipe the opening of the waste fluid tap with a cloth.

Step 6: Dispose of the waste fluid as an industrial waste product.

Step 7: Disposal of waste fluids is completed.

7 Replacing the cutter

(1) Recommended frequency

Replace the cutter when the following situation occurs:

- When the media is not cut smoothly.
- When the cut surface is not straight and sharp.

(2) Procedure

Step 1: If the printer is powered ON, make sure that printing or other operations are not in progress.

Step 2: Display the CR Maintenance menu.

- Press the [Menu] key.
 - “Menu1: Setup>” is displayed.
 - The operation panel shifts to the Setup menu display.
- Press [>].
 - “Set1: User Type” is displayed.
 - Go to “Setxx: CR Maintenance” (xx depending on model)
- Press [Enter].
 - “CR Mainte.: Start” is displayed.
 - The display enters the CR Maintenance menu.

Step 3: Press [Enter].

- Maintenance starts.
- The print head moves to the left of the printer (cutter replacement position).
- “CR Maintenance: End” is displayed.

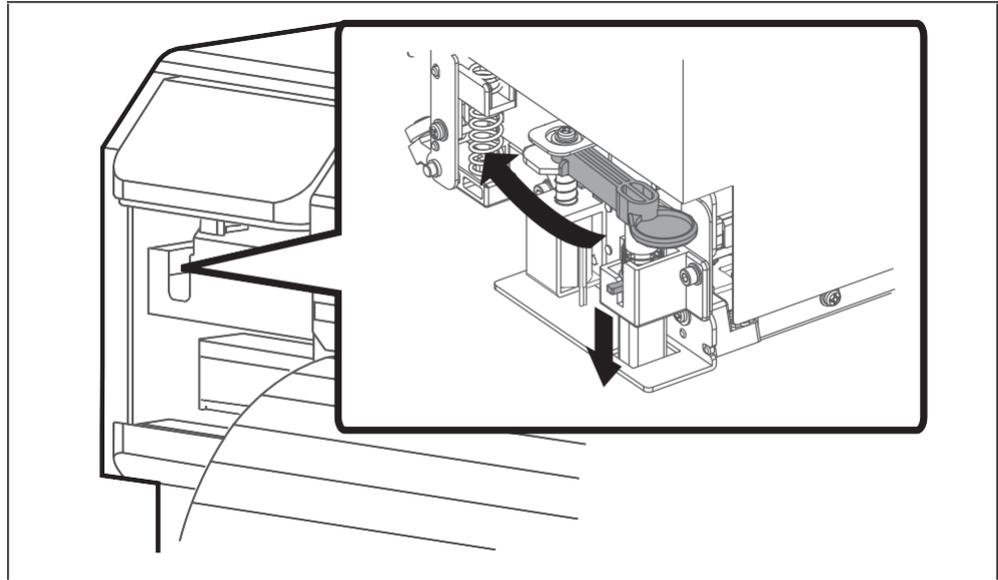
Step 4: Open the maintenance cover at the left side of the printer.

Note

- Leaving the print head uncapped during the cutter replacement for a long time may result in clogging of the print head. Please limit to 15 minutes.

Step 5: Press the tab of the cutter gently, turn the cutter holder in the direction as illustrated below.

- Do not press the tab of the cutter strongly or suddenly let it go. There is a spring in the cutter holder and it may pop out.
- Do not push the cutter all the way in. The cutter blade may damage the inside of the printer.

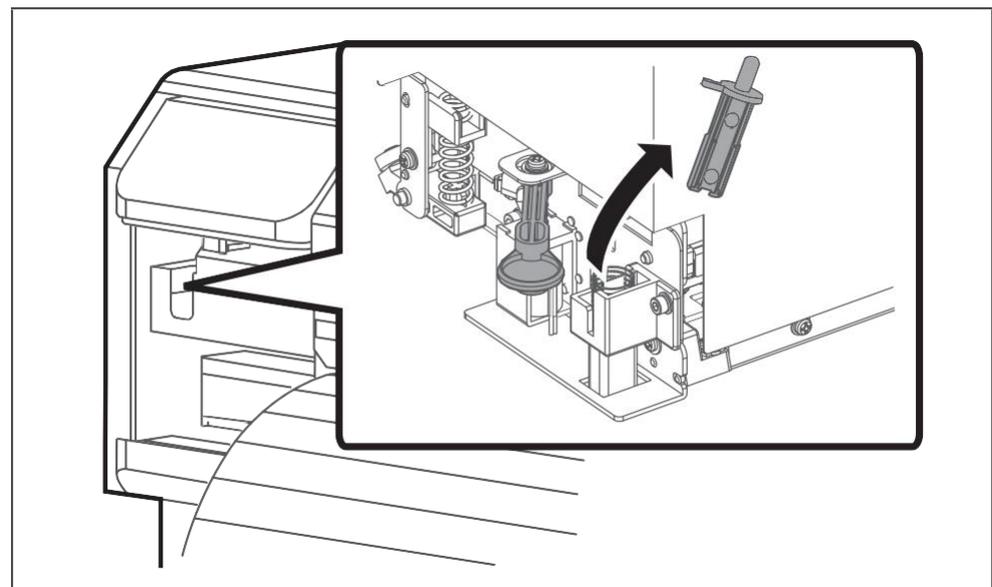


Step 6: Remove the cutter.

Caution

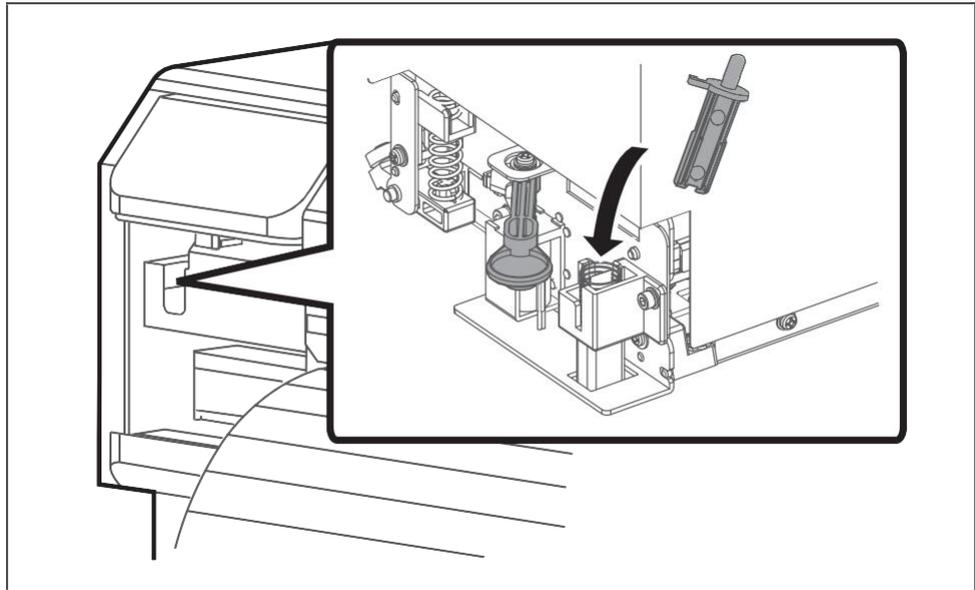
- Do not touch the blade edge. It may cause an injury.
- Do not touch the cutter blade edge with a hard substance or drop the cutter. The cutter blade may be damaged or chipped.

- Used cutter should be put in a plastic bag, etc, and disposed of in compliance with local ordinance and instructions of local authorities.



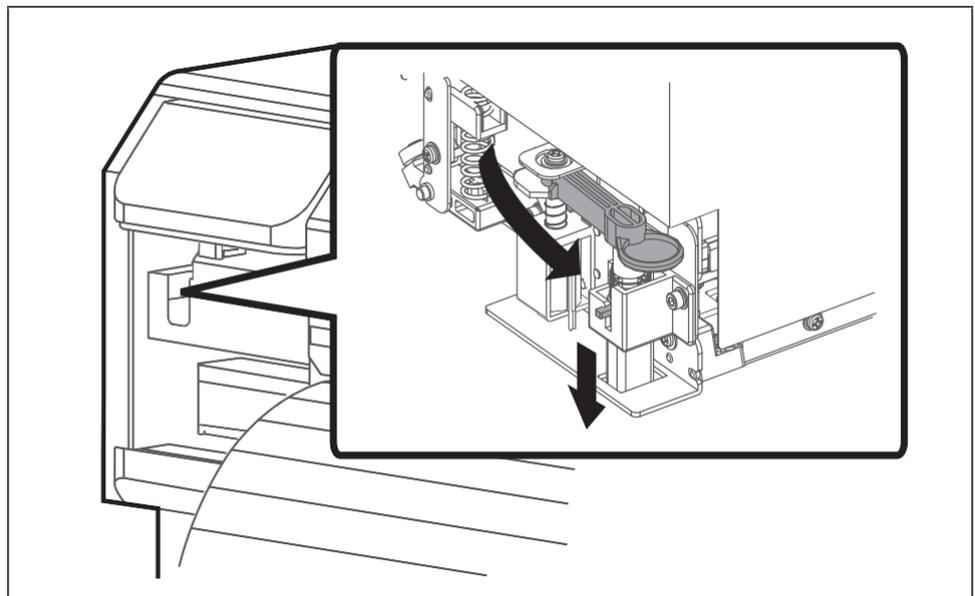
Step 7: Install a new cutter.

- Make sure that the spring in the cutter holder remains in the correct position while installing.



Step 8: Press the tab of the cutter gently, return the cutter holder to its initial position.

- Do not press the tab of the cutter strongly or suddenly let it go. There is a spring in the cutter holder and it may pop out.
- Do not push the cutter all the way in. The cutter blade may damage the inside of the printer.
- Refer to the illustrations below and install the cutter holder correctly. If it is not installed correctly, it may cause an error. If an error occurs, check if the cutter holder is installed correctly.



Step 9: Close the maintenance cover.

Step 10: Press the [Enter] key.

- The print head returns to its original position.
- “CR Mainte.: Start” is displayed.

Step 11: Press the [Menu] key.