

Inkjet printer ML Tiger-1800B

How to clean and maintenance

This machine is a precision machine with a very fine mechanism. In particular, the nozzle surface of the head that ejects ink may be affected by even a small amount of dust or paper dust, and normal print results may not be obtained.

In order to use the machine in a good condition, we recommend to perform the following daily care.

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1. Important safety instructions

⚠ CAUTION



- When cleaning and maintaining the machine, pay close attention to ventilation and be sure to wear the included safety glasses and gloves.



- If ink should come into your eyes, immediately rinse with plenty of clean water for more than 15 minutes and rinse thoroughly to the back of the eyelids. Also, please consult a doctor as soon as possible. If ink adheres to the skin, please rinse thoroughly with a large amount of water and soap or skin detergent.



- The ink, if mixed with water or alcohol, generates aggregates. Be careful not to allow water or alcohol to adhere to the nozzle surface, around the head, cap, and wiper.



- To ensure the stability of ink ejection, this machine must periodically eject (flush) a small amount of ink depending on the type of ink to be filled when it is not used (output) for a long time.

- The type of maintenance cleaning solution varies depending on the ink type. Use the cleaning solution that is compatible with the ink type you use.

- Use a clean stick (SPC-0527) to clean the area around the head / capping station / wiper. If you use a normal cotton swab, lint may remain and cause secondary damage.

- Make sure to clean the ink cap and wiper in the capping station everyday. If left dirty, dirt may adhere to the nozzle surface, or dust or solidified ink may be rubbed on the nozzle, resulting in the ejection failure.

- Make sure to 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 solidified ink may smear onto the nozzle due to wiper operation during head cleaning.

- When cleaning the bottom surface of the carriage, be careful so as not to rub the nozzle surfaces.

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



- Make sure that no moisture enters the machine. If the inside is moistened, it could cause electrical shock, fire or breakage.



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



- Do not use chemicals containing benzene, thinner or abrasives. The cover surface may be degenerated or deformed.



- Do not lubricate inside the machine with lubricating oil. There is a risk of machine failure.



- Keep children away from this machine.

2. Installation environment

Use in an environment with as little dust as possible. Using a fan or blower is also the cause of the surrounding dust.

The accuracy guarantee temperature is +20 to +25 deg C and the allowable temperature is +15 to +30 deg C, the relative humidity is 35 to 65% Rh. Avoid using at a temperature and humidity higher or lower than the indicated ranges.

3. Media storage

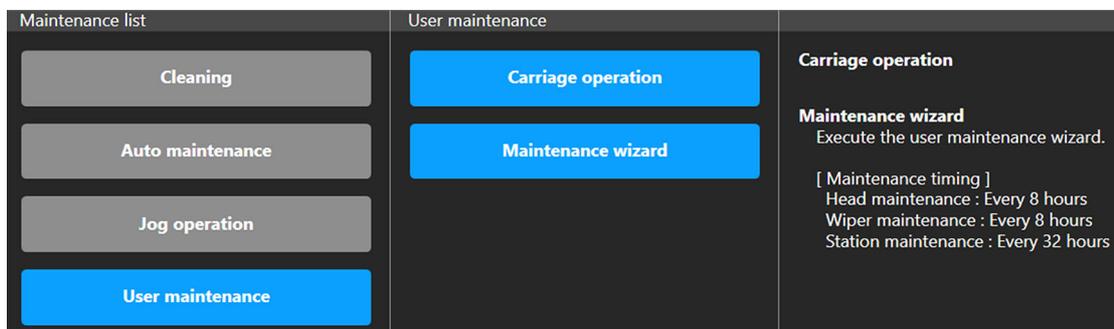
Store the media in a dust-proof place with no direct sunlight. Also, avoid storing the media in a hot and humid place.

4. When to clean and maintain

Timing	Item	Wizard
Once every 8 hours	Cleaning around the head	○
	Cleaning the wiper	○
Once every 32 hours	Cleaning the squeegee for wash unit	
Once every 100 hours	Cleaning the capping station	○
Once every 1 week	Cleaning the wiper holder fixed block	
Once every 2 weeks	Replacing the wiper rubber	

For maintenance for which a wizard is provided, perform the maintenance according to the instructions of the wizard.

Select [Maintenance wizard] from [MAINTENANCE] menu - [User maintenance].



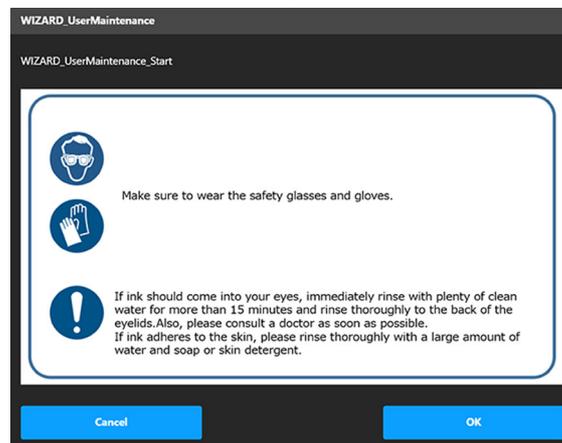
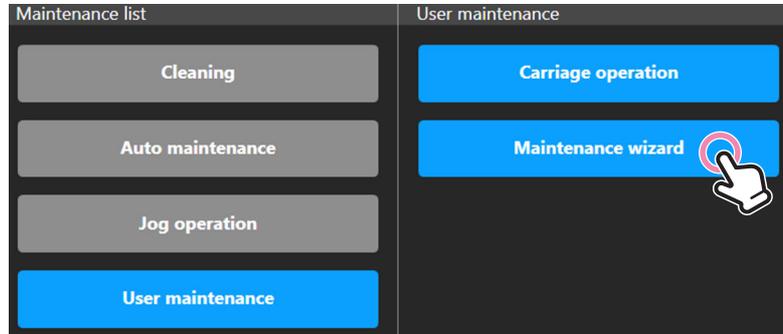
5. Tools required for clean and maintenance

Part name	Part No.	Remarks
Clean stick	SPC-0527	
ML Cleaner001	C-MLC01-Z-BJ-1-DA	For MLRc500
Flushing Liquid 03	C-FL003-Z-BJ-1-SW	For Sb ink (except EU)
	C-FL003-Z-BJ-1-SE	For Sb ink (EU)
Maintenance cloth	SPC-0574	
Gloves		
Soft fabric		
Safety glasses	MP-VG-2010 (GJ-1339-04)	
Wiper rubber	SPA-0309	100 pcs / pack

6. User maintenance

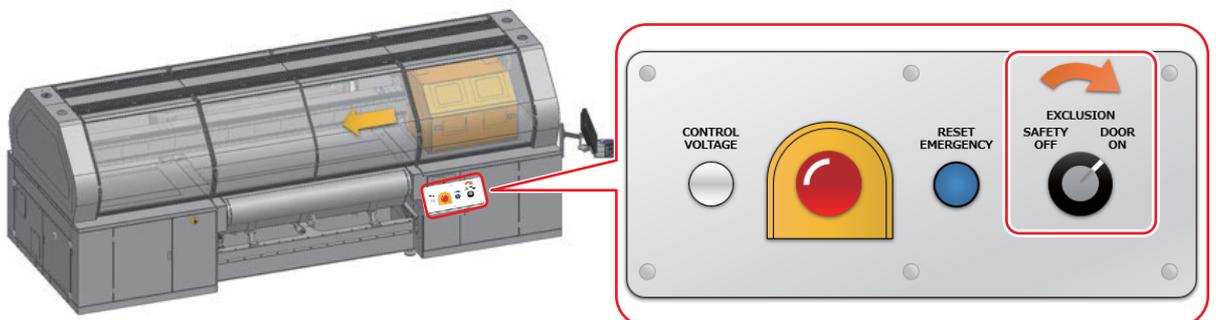
The carriage movement function is in user maintenance.
Follow the wizard and perform each maintenance.

- 1 Run [Maintenance wizard] from the [User maintenance] menu.



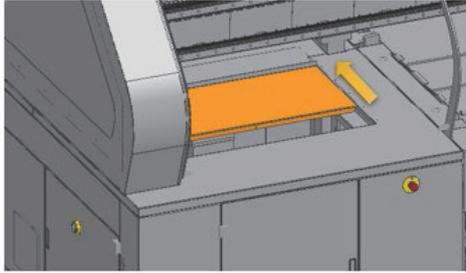
Wizard start screen

- 2 Check the precautions on the wizard start screen and tap [OK] to start the wizard.
- 3 Set the EXCLUSION key to "DOOR ON".



- 4 Tap [OK] on the carriage movement confirmation screen to move the carriage.

5 After the carriage stops in the maintenance area, open the maintenance shutter.



- For safety, open the maintenance shutter after the carriage stops.

6 Perform maintenance according to each maintenance guide.



- In the wizard, a guide to maintenance performed by the user is displayed in the following order.

- (1) Head maintenance (👉 P.6)
- (2) Wiper maintenance (👉 P.7)
- (3) Station Maintenance (👉 P.8)

- Skip any maintenance that you do not need to perform.
- See P.6 to P.8 for detailed procedures for each maintenance.

7 When maintenance is complete, close the maintenance shutter, set the EXCLUSION key to “SAFETY OFF”, and follow the wizard.

- After completing the wizard, an error occurs.

8 Tap the [CLEAR ALARM] button.

- The error is released.

7. Cleaning around the head once every 8 hours



- The area around the head is the place where dirt is most likely to accumulate in the machine and may affect the operation and printing results of the machine. Moreover, the head itself uses a very fine mechanism, so care must be taken when cleaning it.
- Use a maintenance cleaning solution that is compatible with the ink used.
- Run the [Maintenance wizard] to clean. 🗂️ "User maintenance" (P.4)

1 Transfer the cleaning solution to the disposable cup.



- Do not return any cleaning solution left in the disposable cup to the cleaning solution bottle.

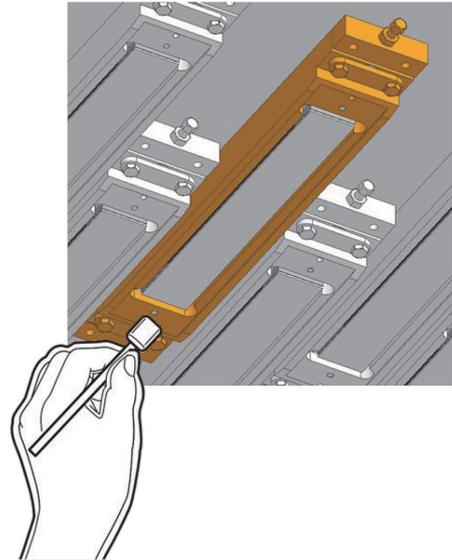
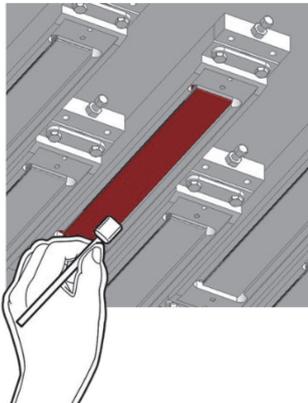


2 Put a cleaning solution in a clean stick or maintenance cloth, and wipe off dirt accumulated on the side of the head and the bottom of the slider.

- Gel-like ink and dust may adhere around the head. Please wipe it off carefully.



- Never rub the nozzle part.



8. Wiper cleaning once every 8 hours



- On the wiper, the ink, dust and paper powder are liable to accumulate. Check the condition of the wiper and clean it if it is dirty.
- Use a maintenance cleaning solution that is compatible with the ink used.
- Run the [Maintenance wizard] to clean.  "User maintenance" (P.4)

1 Transfer the cleaning solution to the disposable cup.



- Do not return any cleaning solution left in the disposable cup to the cleaning solution bottle.

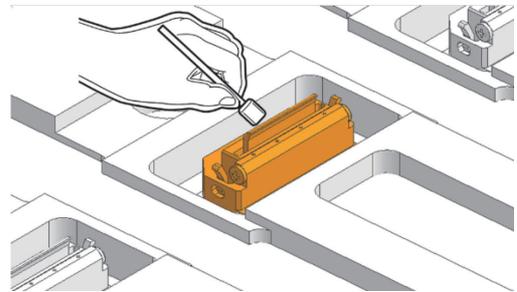


2 Soak a clean stick with maintenance cleaning solution and wipe off ink adhering to the wiper and bracket.

- Wipe off so that cleaning solution does not remain.



- Replace the wiper if:
 - (1) The wiper is deformed.
 - (2) Fixed ink cannot be wiped off.



9. Cleaning the capping station once every 100 hours



- The area around the cap is also a place where dust and ink tend to accumulate. We recommend using the maintenance cleaning solution suitable for the ink you are using, and cleaning it frequently to prevent contamination.

- Run the [Maintenance wizard] to clean. 🗂️ "User maintenance" (P.4)

1 Transfer the cleaning solution to the disposable cup.

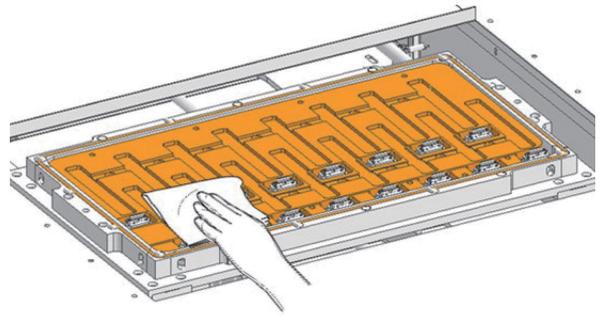


- Do not return any cleaning solution left in the disposable cup to the cleaning solution bottle.

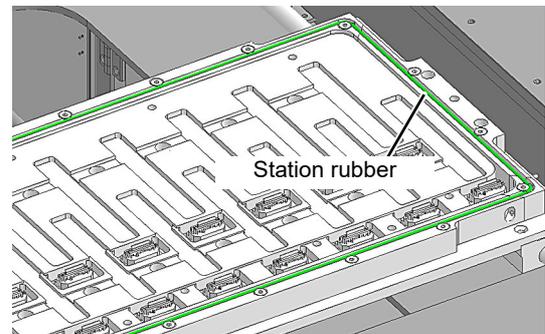


2 Soak a clean stick or maintenance cloth with a cleaning solution and wipe off any dirt.

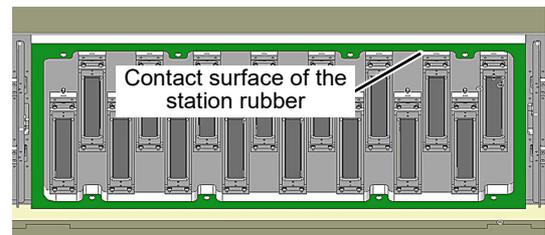
- Wipe off the gel ink so that the ink can flow.



3 Soak maintenance cleaning solution fully in a cleaning cloth and wipe off the ink on the surface of the station rubber.



4 Soak maintenance cleaning solution fully in a cleaning cloth and wipe off the ink on the contact surface of the station rubber on the bottom of the carriage.

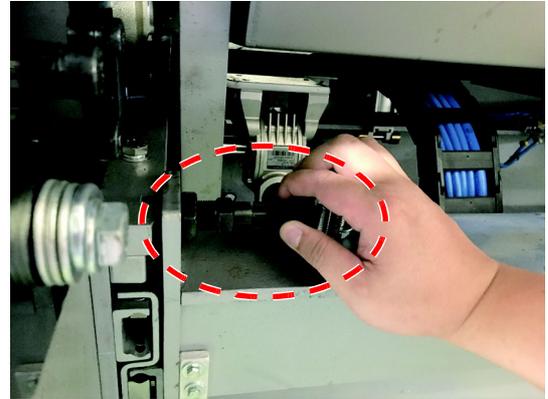


10. Cleaning unit squeegee cleaning once every 32 hours



- This is a location where dust and ink tend to accumulate. We recommend using the maintenance cleaning solution suitable for the ink you are using, and cleaning it frequently to prevent contamination.

1 Pull out the belt cleaning unit.



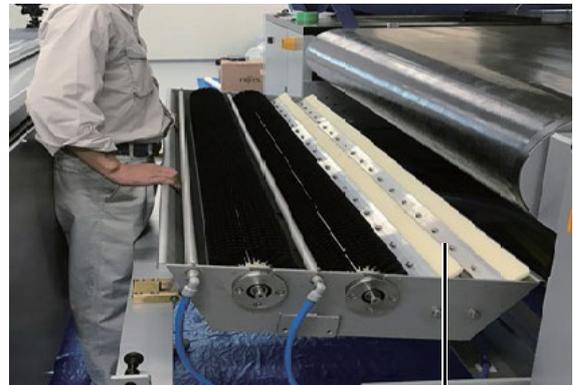
2 Transfer the cleaning solution to the disposable cup.



- Do not return any cleaning solution left in the disposable cup to the cleaning solution bottle.



3 Dip a cleaning cloth in the maintenance solution, and wipe off any dirty sections.



Squeegee

11. Cleaning the wiper holder fixing block once every 1 week



- This is a location where dust and ink tend to accumulate. We recommend using the maintenance cleaning solution suitable for the ink you are using, and cleaning it frequently to prevent contamination.

1 Press the emergency stop switch.

2 Open the front cover R.

3 Transfer the cleaning solution to the disposable cup.



- Do not return any cleaning solution left in the disposable cup to the cleaning solution bottle.

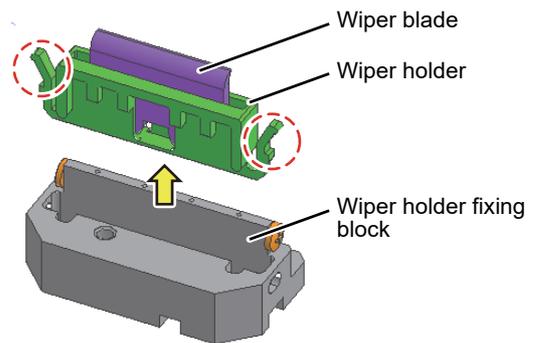


4 Lift up the red circle (x2) on the wiper holder while tilting them inward.

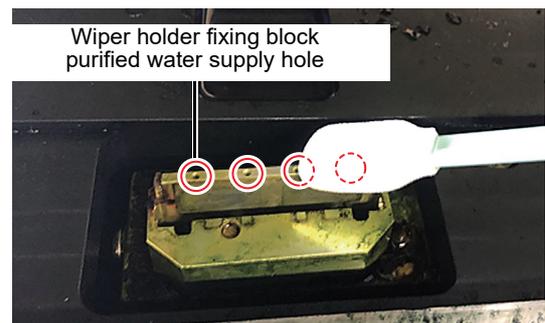
5 Remove the wiper holder from the wiper holder fixing block.



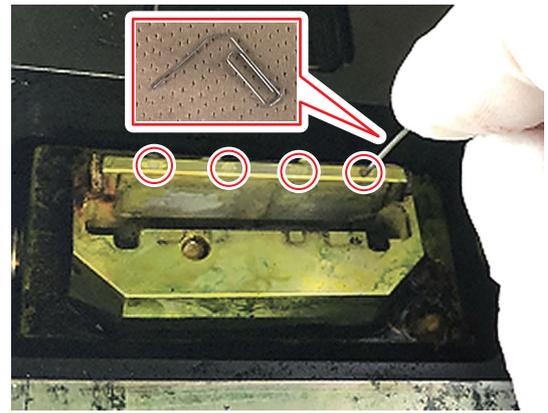
- Pay attention to an ink leak during the operation.



6 Soak a clean stick or waste cloth with maintenance cleaning liquid and wipe off the ink near the purified water supply hole of the wiper holder fixing block.



- 7** Insert a clip etc. into the purified water supply hole of the wiper holder fixing block to eliminate the ink clogging.



- 8** Set the wiper holder on the wiper holder fixing block.

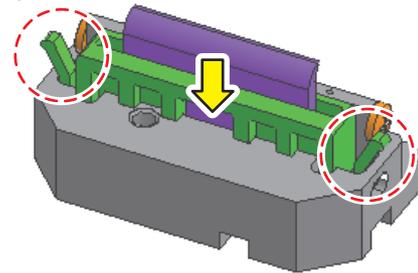
- Push in until the red circle of the wiper holder catches on the wiper holder fixing block.

- 9** Check that the wiper holder does not come off when pulled.

- 10** Close the front cover R.

- 11** Reset emergency stop switch.

- 12** Perform reset of this machine.



12. Replacing the wiper blade once every 2 weeks



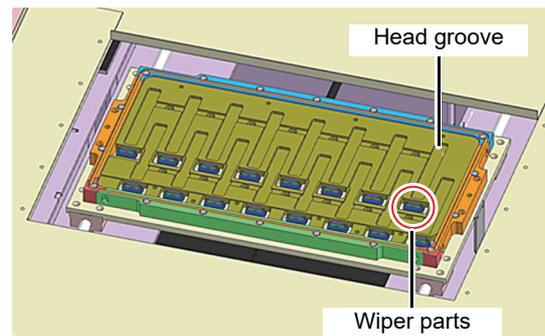
- This is a location where dust and ink tend to accumulate. We recommend using the maintenance cleaning solution suitable for the ink you are using, and cleaning it frequently to prevent contamination.

1 Press the emergency stop switch.

2 Open the front cover R.

3 Clean the station.

- Remove all ink from the station head groove and wiper parts.
(Wiper cleaning (🔧 P.7), Cleaning the capping station (🔧 P.8))

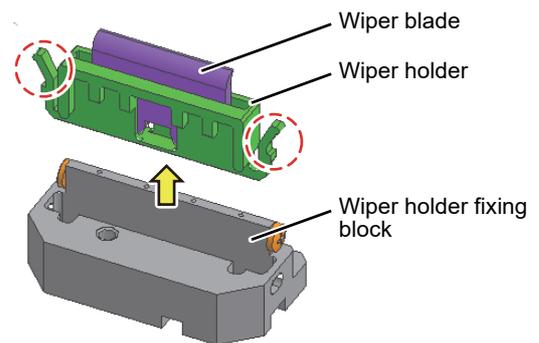


4 Lift up the red circle (x2) on the wiper holder while tilting them inward.

5 Remove the wiper holder from the wiper holder fixing block.



- Pay attention to an ink leak during the operation.



6 Remove the wiper blade from the wiper holder.

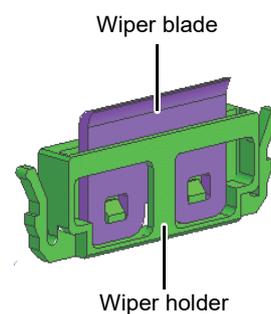


- The wiper holder will not be replaced.

7 Replace with a new wiper blade.

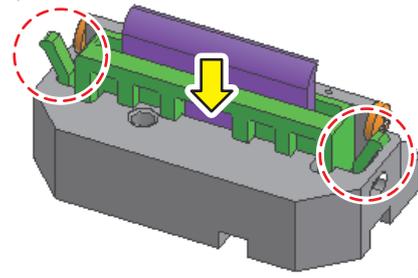


- Make sure that the wiper is oriented correctly.



8 Set the wiper holder on the wiper holder fixing block.

- Push in until the red circle of the wiper holder catches on the wiper holder fixing block.



9 Check that the wiper holder does not come off when pulled.

10 Close the front cover R.

11 Reset emergency stop switch.

12 Perform reset of this machine.

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Tiger Products Install Pack 2.01