

Inkjet printer Tx400-1800D series

Request for daily care

Inkjet printer is the precision machine that has highly delicate mechanism. Especially, little dust and lint may have effect on a head nozzle, and may not perform normal printing.

To use the inkjet plotter in good condition, we recommend the following daily care.

1. When to care

When to care	What to care	Reference Page
Once a day (at the end of the daily work)	Head nozzle surface	P.2
	Fabric retainer	P.3
	Spacer	P.3
	Mist fan filter	P.3
	Waste ink tank	P.4
Once a week (at the end of the work on weekend)	Media width detection sensor	P.5
	Perform "Drain Wash"	P.5
	Fabric retainer frame	P.5
	Exterior Surfaces	P.6
	Replacing the throttle valve filter	P.6
When the Machine Is Not Used for a Long Time	Spike roller	P.6
	Perform "Storage Wash"	P.8



Tools required for maintenance

- Ink-cleaning kit (SPC-0137)
- Sb210 Maintenance cleaning solution (SPC-0701)
- cleaning stick (SPC-0527)
- Cotton swab
- Dropper
- Gloves
- Soft fabric

2. Daily care



- When possible, use the cleaning stick (SPC-0527) for cleaning around the head/ capping station/ wiper.
Using the other cotton bud may attach lint, then it may damage the machine.

(1) Head nozzle surface (Operation manual Chapter 4 “Maintenance of head nozzle surface”)

Leaving ink or dust on the head nozzle that has been attached during printing may cause discharge error or capping error.

After working, be sure to perform maintenance of the head nozzle (NozzleClean2) to keep it clean.

Also clean the following three parts during the maintenance above.

- Bottom surface of the slider and around the head
- Ink cap
- Wiper

Important!

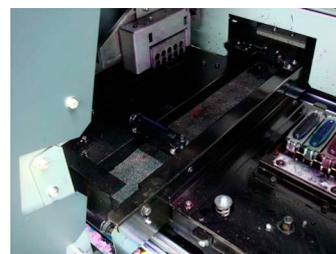
- Dust accumulates most around heads mostly, and it effects the operation and printing results for this plotter, and also as this plotter has very delicate mechanism, need enough attention to the care for it.
- When the wiper is deformed, replace with a new wiper according to the Operation manual Chapter 4 “When the message of [Replace wiper] is displayed”.



Clean the bottom surface of the slider and around the head with a cleaning stick.



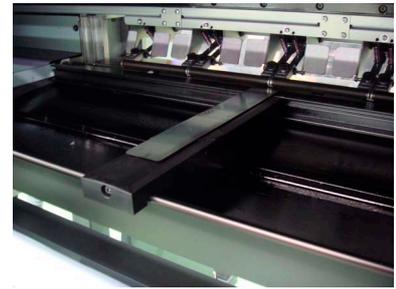
Ink cap



Dirty wiper

(2) Fabric retainer (Operation manual Chapter 4 “Cleaning fabric retainer”)

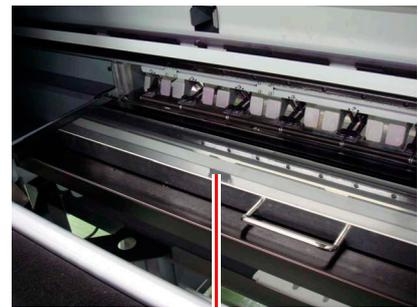
If ink, dust, or lint is attached to the fabric retainer, media may not be detected properly, or it may not print properly due to dust or others attached to the nozzle. Clean the fabric retainer frequently.



Fabric retainer

(3) Spacer

If the spacer is stained, the stain may attach to media or the nozzle and it may prevent from printing properly.



Spacer

(4) Mist fan filter (Operation manual Chapter 4 “Cleaning mist fan filter”)

If using with the mist fan filter stained, large amounts of mist may be generated and it may stain media or break the machine.



Stained mist fan filter

(5) Waste ink tank (Operation manual Chapter 4 “When waste ink tank is filled up”)

Check the waste ink tank level to prevent overflow.

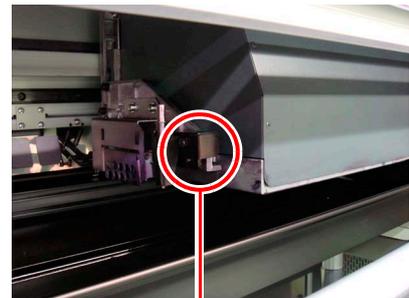


3. Periodically care (Once a week)

Users are advised to perform the maintenance works described below once a week so that the printer will keep its high performance and accuracy over an extended period of its life.

(1) Media width detection sensor (Operation manual Chapter 4 “Cleaning the Media Sensor”)

In case dust and ink adhered to the media sensor, it causes detecting on error. Wipe out dust and ink with a soft cloth.



Media width detection sensor

(2) Perform “Drain Wash” (Operation manual Chapter 4 “Wash ink discharge passage (Drain Wash)”)

Clean the ink discharge passage periodically.

If the ink discharge passage is clogged, the printer can not perform cleaning properly, and the printer may be broken.

(3) Fabric retainer frame (Operation manual Chapter 4 “Cleaning the fabric retainer frame”)

When printing on a cellular fabric, some ink passes through the fabric. The penetrated ink is absorbed by a sponge of the fabric retainer frame and is collected in a ditch for penetrated ink.

Wash the sponge with water, and wipe out the ink adhered to the fabric retainer frame with a waste cloth.



Fabric retainer frame

(4) Exterior Surfaces (Operation manual Chapter 4 “Cleaning the Exterior Surfaces”)

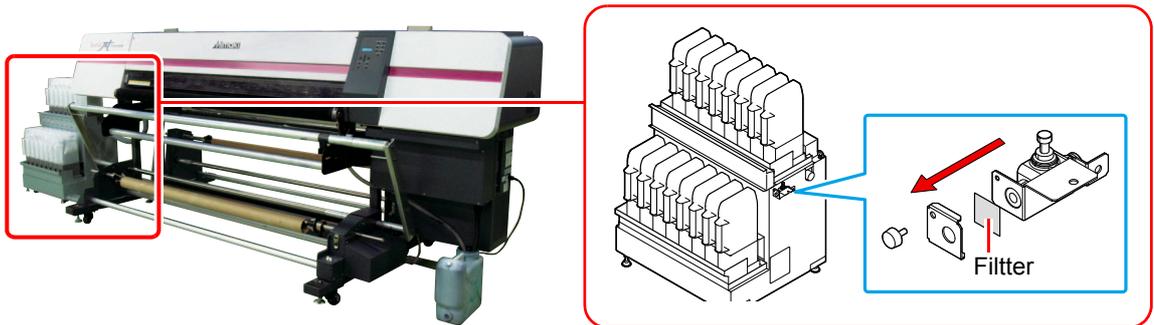
According to the working environment, the dust and cloud of dust may be adhered. Wring a soft cloth firmly after wetting it with water and wipe out the dust to prevent the head moving part from dust.

(5) Replacing the throttle valve filter (Operation manual Chapter 4 “Replacing throttle valve filter”)

When the throttle valve filter is left without replacing for a long time, it can easily cause a negative pressure error.



- The throttle valve is on the right side of the ink supply unit.



(6) Spike roller (Operation manual Chapter 4 “Cleaning of spike roller”)

Remove pre-treatment agent or lint adhering to the spike roller with the resin brush periodically.



- Do not immerse the brush in water or washing liquid. It expedites rust.



4. Storage of media

Media should be stored in the little dust area, and not in direct sunlight. Avoid storing the media in the area with high temperature and high humidity.

5. Storage of ink pack

Be careful of the followings to store.

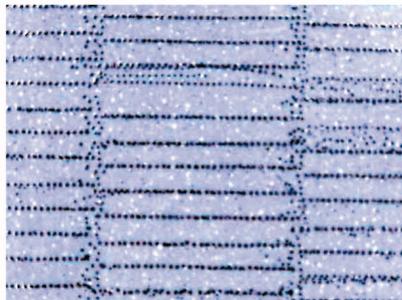
- Store the ink pack in no direct sunlight, and no high humidity.
- As it's a delicate product, do not drop it.
- Ink IC should not be contaminated and discharged static electricity.
- Be sure to store the ink pack and the ink IC together.



Ink pack and Ink IC

6. The examples of defective printing

These following examples indicate improper head (nozzle) firing by dust, which effect printing. Confirm the nozzle condition periodically before or during outputting not to use in such as this condition. The nozzle condition can be confirmed with [test printing] in this plotter. (Operation manual Chapter 2 "Test Printing")



Deflection



Nozzle out



Ink dropping



Satellite

7. How to recover improper nozzle flashing

When not using this plotter for a long time or according to environmental temperature, nozzle flashing may become unstable. In this case, follow the procedure below to recover nozzle.

1. Daily care

Execute daily care all parts noted on this manual.

2. Normal cleaning (Operation manual Chapter 2 “Performing Head Cleaning”)

Execute normal cleaning along the operation manual after executed daily care.

Repeat cleaning and test printing, then confirm the nozzle clogging resolved.

3. Hard cleaning (Operation manual Chapter 2 “Performing Head Cleaning”)

If nozzle clogging cannot be solved even executed normal cleaning several times, change the cleaning mode to hard cleaning, and execute the same procedures.

4. Nozzle cleaning (Operation manual Chapter 4 “Cleaning the Head Nozzles”)

In case nozzle clogging or other problems can not be cleared away after all these procedures, execute nozzle cleaning.

The execute cleaning and test printing for one minute.

5. Nozzle cleaning (Operation manual Chapter 4 “Cleaning the Head Nozzles”)

In case nozzle clogging is not solved with nozzle cleaning above-mentioned, set the TIME to leave 5 minutes, and execute nozzle cleaning and test printing again.

6. Ink filling (Operation manual Chapter 4 “If nozzle clogging is not solved (ink filling)”)

If nozzle clogging is not corrected after nozzle cleaning mentioned above, fill ink.

In case nozzle clogging is not resolved with all these procedures, contact with our customer service or make service call to the agency you purchased.

8. When the operation of the printer is to be suspended for a long time

When the operation of the printer is to be suspended for a week or more, use the [Strage Wash] function to clean the nozzles in the heads and the ink discharge passage.

After the cleaning, store the printer properly.

9. Supplies

- Clean stick (SPC-0527)
- Ink-cleaning kit (SPC-0137)
- Maintenance cloth (SPC-0677)

10. Safety Precautions

CAUTION



When not using this printer for a long time, it is necessary to flash little ink periodically, depending on the installed ink type, to obtain the ink flashing stability.

When not using this printer for a long time, perform [Storage Wash] function of this printer (Operation Manual chapter 4 “When the Machine Is Not Used for a Long Time”), and then turn the power switch on the right of the printer ON (to “I”).



Do not disassemble this plotter. It causes an electric shock, fire, and damages.



Be sure to not water into the inside of this plotter. If the inside gets wet, it causes an electric shock, fire, and damages.



Before start the daily care, turn off the power supply, and disconnect an electric cable. It causes unexpected accident.



Do not use benzine, thinner, and the chemicals contained abrasives. The surface of the cover may be deteriorated or deformed.



Do not apply lube oil on the inside of this plotter. The plotter mechanism may be damaged.



Do not touch ink directly. If ink has stuck to your skin or clothes, immediately wash it off with detergent and water.

If you get ink in your eyes, immediately wash your eyes with a lot of clean water and then consult a doctor.

11. Installation environment

- Use this plotter in clean (less dust) environment. The use of fan and ventilator might be a cause of dust brow up.
- This plotter should be used at 15 to 35 °C(59°F to 86°F) and 35 to 65% Rh (40 to 60% (Rh) to use a Tp250 ink.). Avoid using at lower or higher than this temperature and humidity.

Memo



You can also download the latest manual from our website.

© 2011 MIMAKI ENGINEERING CO., LTD.

D202090-14-24102011

NH

FW :1.90