

Inkjet printer TS500P-3200 Requests for Care and Maintenance

This machine is a precision machine equipped with extremely fine mechanisms. Especially, the nozzle surface of the heads from which the ink is discharged is affected even by a slightest attachment of dust or paper powder and the proper printing results could not be obtained. With a view to using this machine in a better condition, we would like to recommend performing the following care and maintenance on daily basis.

1. When to care

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Tools required for maintenance

- Cleaning stick (SPC-0527)
- Cleaning liquid 03 maintenance kit (ML003-Z-K1)
- Cotton swab
- 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.
- Be sure to perform maintenance for the ink cap and the wiper of capping station every day. If you leave it dirty, dirt may adhere to the nozzle surface, or, dust and dry ink may be rubbed against the nozzle. It may cause discharge defect.
- · Clean the bottom of carriage every day so that it will not get dirt from inks or dusts. If you leave it dirty, dust and dry ink may be rubbed against the nozzle at wiping operation when performing head cleaning.
- When you clean the carriage bottom surface, fully be careful not to rub the nozzle surface.

(1) Surroundings of the heads ("Cleaning the Head and the Area around It" Chapter 4 of the Operation Manual)

(Important!)

· The heads and their surroundings are the parts most liable to be tainted in this machine and if tainted, it could cause adverse effects to the functions of the machine and the results of the printings. Moreover, as the head itself uses very fine mechanisms, sufficient precautions are required for the care and maintenances.

Move the carriage to the left and open the left maintenance cover.

Hold The Handle And Shift The Flushing Unit.

Area around It" of the user's manual to perform the operation.

 Refer to the Step 1 to 5 of Chapter 4 "Cleaning the Head and the Area around It" of the user's manual to perform the operation.





Soak the clean stick or the waste cloth 3 in the maintenance cleaning liquid and wipe off an accumulated ink on the side of the head and on the bottom surface of the slider.

• Never rub the nozzles.



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(2) Capping Station ("Cleaning around the wiper" Chapter 4 of the Operation Manual)

The surrounding area of the cap is also liable to be stained by the dust and ink. It is recommended to clean the head frequently using the cleaning liquid for maintenance suitable for the ink used to avoid the stains on the head.

- Cleaning liquid 03 maintenance kit (ML003-Z-K1)
- **1** Move the carriage and open the right maintenance cover.
 - Refer to the Step 1 to 5 of Chapter 4 "Cleaning around the wiper" of the user's manual to perform the operation.



2 Clean the cap.

• Dip the clean stick into the cleaning liquid for maintenance and wipe off the cap. Wipe off so that cleaning solution for maintenance will not remain.



(3) Wiper ("Cleaning around the wiper" Chapter 4 of the Operation Manual)

On the wiper, the ink, dust and paper powder are liable to accumulate. Check the state of the wiper and if it is stained, clean it.

- **1** Move the carriage and open the right maintenance cover.
 - Refer to the Step 1 to 5 of Chapter 4 "Cleaning around the wiper" of the user's manual to perform the operation.



2 Clean the wiper.

- Remove the wiper by holding the protrusions at its both ends.
- Wipe off the ink sticking to the wiper and bracket with a clean stick dipped in cleaning solution for maintenance. Wipe off so that cleaning solution for maintenance will not remain.



Further, in the cases as explained below, replace the wiper with the new one (SPA-0193) in accordance with "Replacing the wiper" on Chapter 4 of the Operation Manual.

- When the wiper is deformed
- When the stuck ink can not be wiped off
- When the warning for wiper replacement is indicated

Projection

(4) Wiper blade ("Cleaning around the wiper" Chapter 4 of the Operation Manual)

Ink, dust, and paper dust gather on the wiper blade. Check the status of the wiper blade, and if it is dirty, clean it.

- 1 Move the carriage and open the right maintenance cover.
 - Refer to the Step 1 to 5 of Chapter 4 "Cleaning around the wiper" of the user's manual to perform the operation.

 Wipe off the ink of the wiper blade with clean stick or waste cloth dipped in cleaning solution for

Clean the wiper blade.

maintenance.



Wiper blade

(5) Media press ("Cleaning the Media Press" Chapter 4 of the Operation Manual)

When the cut dust of the media and other dusts accumulate between the media holder and the platen, it could cause the risks that the transfer of the media could not be performed properly or such dusts stick to the nozzles and this could interfere the proper printings. You are recommended to clean it frequently.

(6) Media sensor ("Cleaning the Media Sensor" Chapter 4 of the Operation Manual)

The media sensors are located on the platen (for two positions) in the backside and the bottom surface of the head.

If the dusts and ink accumulate on the sensor, it could cause false detection of the media or the register mark. Wipe off the sensors with soft cloth or clean sticks.

- Caution
- For the cleaning of the media sensors, never use the solvent.
- When the sensor is heavily stained, wipe off with a cloth soaked in the waterdiluted neutral detergent.





The lower surface of the head

The backside of the machine

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) Platen ("Cleaning the Platen" Chapter 4 of the Operation Manual)

Platen is a place where dusts, paper powder, and ink are liable to accumulate. It is therefore suggested to clean it frequently. Wipe out the platen surface and the platen cover with a soft blush or cloth. The grooves for media holder and for cutting the paper (cutter line) are the place where the dusts are especially liable to accumulate. Clean them thoroughly.



(2) Exterior ("Cleaning the Exterior Surfaces" Chapter 4, Operation Manual)

Depending on the using environment, the dusts or sand powder could stick to the exterior of the main unit. To avoid the entry of the dusts into the moving part of the head, wipe them off with soft cloth dipped into water and squeezed tightly.



(3) Waste ink tank ("If a Waste Ink Tank Confirmation Message Appears" Chapter 4 of the Operation Manual)

Check whether the waste ink tank is full or not. Take care so that the waste ink never overflows the tank.



(4) Flushing BOX sensor ("Cleaning the Flusing BOX Sensor" Chapter 4, Operation Manual)



(5) Ink receiving sponge ("Cleaning the ink receiving sponge" Chapter 4 of the Operation Manual)

1 Remove the lower part of the left side front cover, and shift the flushing unit to the left.

• Refer to the Step 1 to 2 of Chapter 4 "Cleaning the Flusing BOX Sensor" of the user's manual to perform the operation.

Remove the lower part of the left side front cover,



Sensor

clasp

2 Remove the flushing cover, and take out the ink receiving sponge.

• For detail, refer to step 2 of "Cleaning the ink receiving sponge" of the user's manual to perform the operation.

3 Soak the ink receiving sponge in tap water, and lightly rubbing wash.

- Please ask the industrial waste treatment company for the waste liquid treatment of the waste that washed the sponge.
- **4** Return the flushing unit to its original state.



4. Periodically care (once in a week or two weeks)

(1) Replacing the carriage filter

Replace it once in a week or two weeks.

Move the carriage.

• Refer to the Step 1 to 4 of Chapter 4 "Cleaning around the wiper" of the user's manual to perform the operation.





- Remove the carriage filter cover of right and left of the carriage.
- Pinch the claw attached to the upper part of the carriage filter cover and pull it to the front.



Carriage filter cover





Remove the used carriage filter cover.

• Insert the holes of right and left of the carriage filter into the convex part of the carriage.



 The carriage filter is located at right and left of the carriage.
 Replace both filters at the same time.

5 Return the carriage filter cover to the original status.

6 When replacement has been completed, press the ENTER key.

7 Close the right maintenance cover and press the **ENTER** key.

(2) Replacing the mist filter

Replace it once in a week or two weeks.

Pull out the mist filter ASSY located at the rear surface of the main body.

- There are 6 mist filter ASSY at the rear surface of the main body (parts indicated with circles in the figure).
- Put your finger on the hole of the bottom surface, and pull out the mist filter ASSY forward.





Removed the used filter.

(1) Slide the filter holder a little, and remove it.



- (Important!)
- Ink at printing adheres to the mist filter ASSY. When replacing the filter, it is recommended to perform the work with a sheet of paper placed.

- **3** Attach new mist filter (SPA-0190) and the filter holder.
- **4** Attach the mist filter ASSY to the original position.









(3) Replacing the air cleaning filter

Replace it once in a week or two weeks.

Pull out the air cleaning filter ASSY located at the upper part of the main body

There are 6 air cleaning filter ASSY at the rear surface of the main body (parts indicated with circles in the figure).
Hook your finger on the hole in front and pull the air cleaning filter ASSY forward to remove.



5. 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.

6. Storage of ink bottle

Be careful of the followings to store.

- · Store the ink bottle 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 bottle and the ink IC together.



7. 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")









8. Recovery method of defective nozzle discharge

When this printer has not been used for an extended period of time, or depending on the environmental temperature, the discharge at the nozzles could become unstable. In such a case, the following methods may be taken to recover the status of the nozzles.



9. When the printer is not used for a long period

When the printer is not to be used for a period of one week or above, perform the cleaning of the heads and nozzles and the ink discharging channel before storing this printer.

10. Supplies

Product Name	Product No.	Product Name	Product No.
Cleaning liquid 03 maintenance kit	ML003-Z-K1	Air pressure filter	SPA-0195
Waste ink tank	SPA-0197	Carriage filter	SPA-0189
Cutter blades	SPA-0192	Mist filter	SPA-0190
Clean stick for the surroundings of the head 50pcs	SPC-0527	Wiper kit	SPA-0193
Ink filter white	SPA-0196		

11. Safety Precautions



12. Installation environment

- Use this printer as much as possible in a dust-free environment. Fans and air-blowers could cause the dustspewing.
- The using environment of this printer is from 20 to 30°C (68°F to 86°F) in temperature and from 35 to 65 % in relative humidity. Avoid the use of this printer at a temperature and humidity higher or lower than the indicated ranges.

MEMO



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