

artisJet 2100U Maintenance Manual

artisJet

Direct to Substrate Printing Solutions

artisJet Customer Care

February 2017

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artisJet 2100U Maitenance Manual

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Thanks for selecting artisJet 2100U Printer. This manual is specially issued to keep your printing system running smoothly. As the UV LED printer is sensitive for the ink system, espeically white ink printing, this manual will extend the working life of the printer and ensure the best printing quality in the printing jobs. Please carefully read and act the operation as requested.

Thanks for your cooperation in advance.



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- Install the machine in an environment without direct sun shine shoot!
- Connect the ground wire properly !
- Wear sunglasses to protect your eyes once you need to stare the printing process for long time.
- Keep the UV inks under cool place without direct strong light pollution. Try to use it within around 3 months after opened.
- Power off the machine and disconnect the power cable before any operations related to electrical system.



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Considering the cost of atisJet Ink high, some clients selecting inferior inks under very low price which can cause fatal damage to the printer head. Usually, the ink pigment particles of low quality inks are too large which make the printer head clogged seriously. For a long time, the other ink system parts like Pump Station shall be also damaged. Meanwhile, expired ink can easily lead to clogging the printer head nozzles.



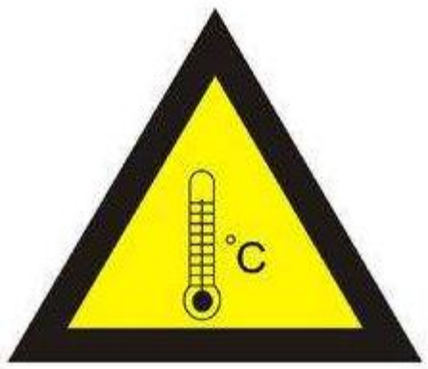
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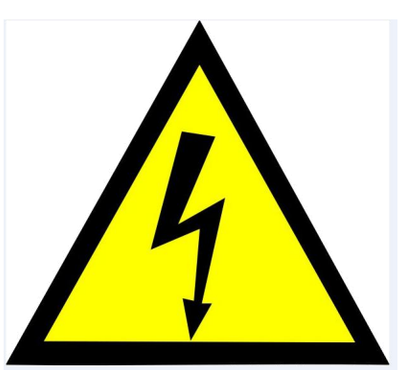
Due to the stability of the ink determines the condition of printer head while the stability of the ink is determined by the viscosity, surface tension, volatility and mobility of the ink, we need to store and use the ink under proper temperature and humidity. The suggested temperature should be 15℃-25℃ and the humidity no less than 35%.

Power supply stability is also very important. Once the local power supply is not steady, the Uninterruptible Power System/Uninterruptible Power Supply shall be necessary.

Eliminate static electricity. We need to connect the Ground Wire properly to avoid any static electricity on the machine cover which might burnt off printer head or other electrical parts.









Before Daily Product Printing

1. Shake each ink bottles to avoid any sendiment at the bottom and to check the ink is enough or not.

2. Press General Power button to turn on the machine. Press Front button to check the flatbed can moving to front properly or not, then press Back button to check it can moving back properly or not.





3. Press READY button to make sure the machine can get READY mode properly.



4. Press UV button to make sure the UV Cooling system can working properly.

The UV Cooling Liquid can recycirlying properly and the UV fans functioning normally.





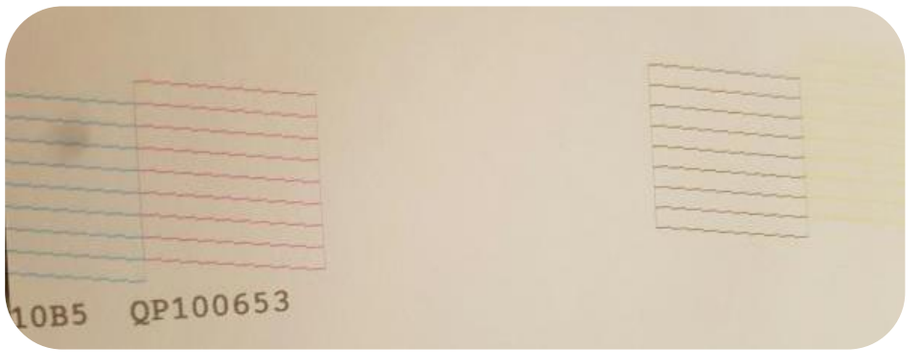


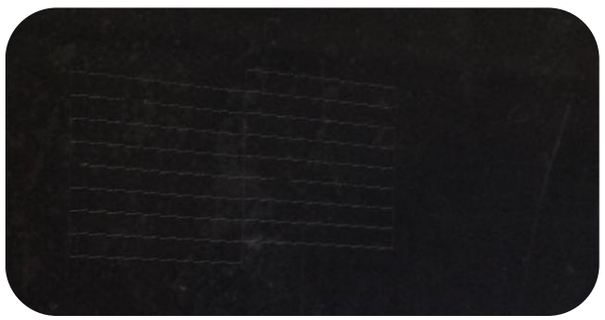
5. Head Cleaning via Printer Driver. (please refer to *artisJet 2100U Set Up and Installation*)

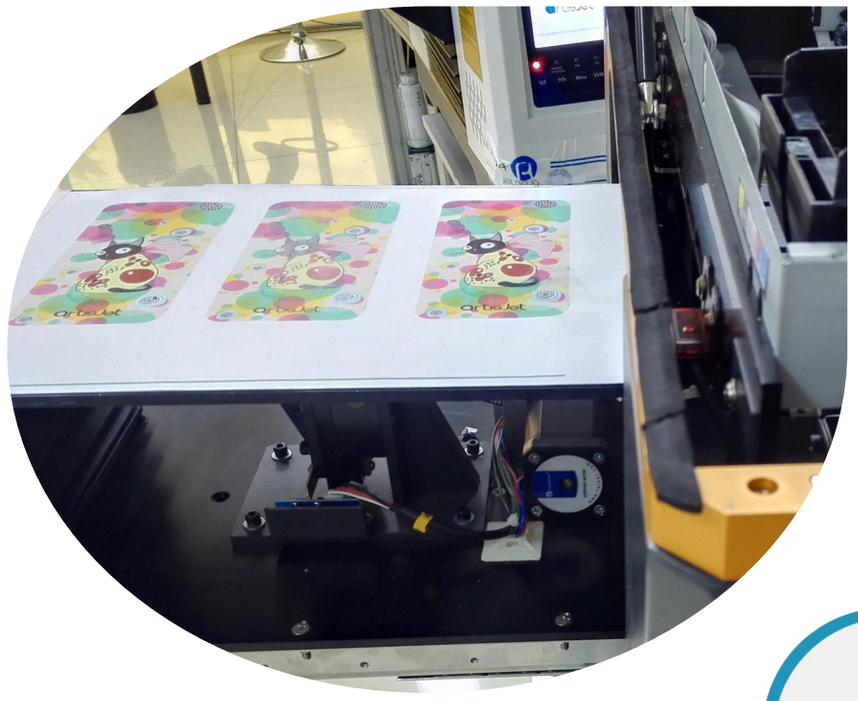
6. Nozzle Check via Printer Driver and make sure all the color paterns can be printed fully.

(please refer to *artisJet 2100U Set Up and Installation*)

7. Image printing to make sure the result is good. (please refer to *artisJet 2100U Set Up and Installation*)







After Daily Product Printing

1. Power off the machine in correct order.

--- Press UV button to turn off the UV Cooling System.

--- Press READY button to make the machine offline.

--- Press General Power button to turn off the machine.



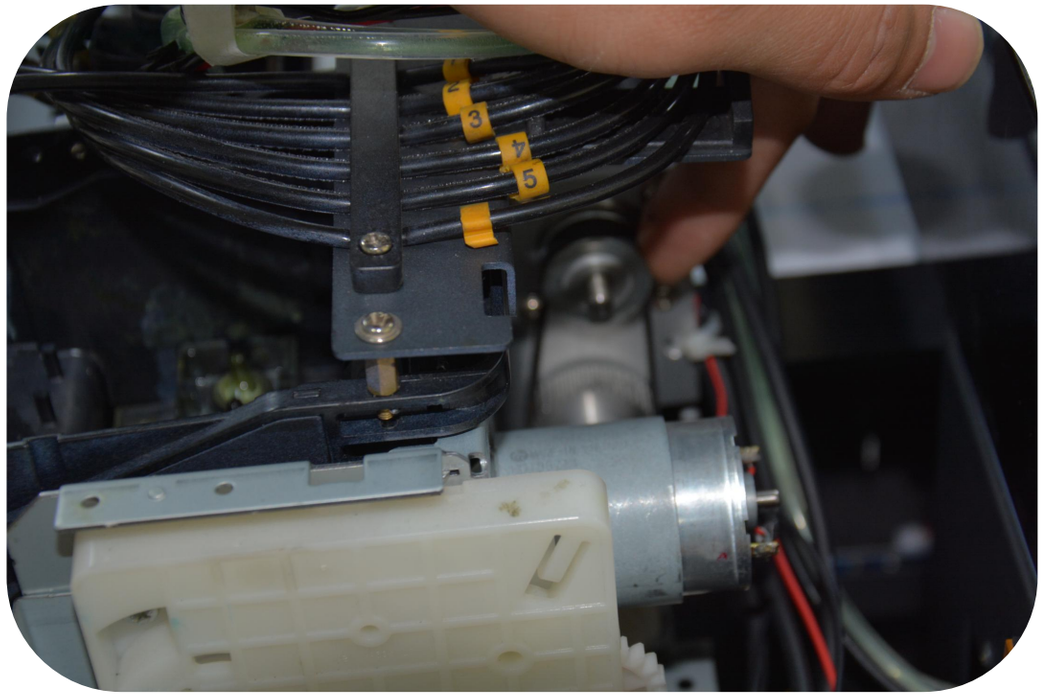




2. Check the Encoder Strip is dirty or not. If so, we need to clean it with alcohol.

--- Rotate the carriage motor belt to unlock the carriage. Then move it into middle position.

--- Clean the Encoder Strip with non-woven cloth and alcohol.

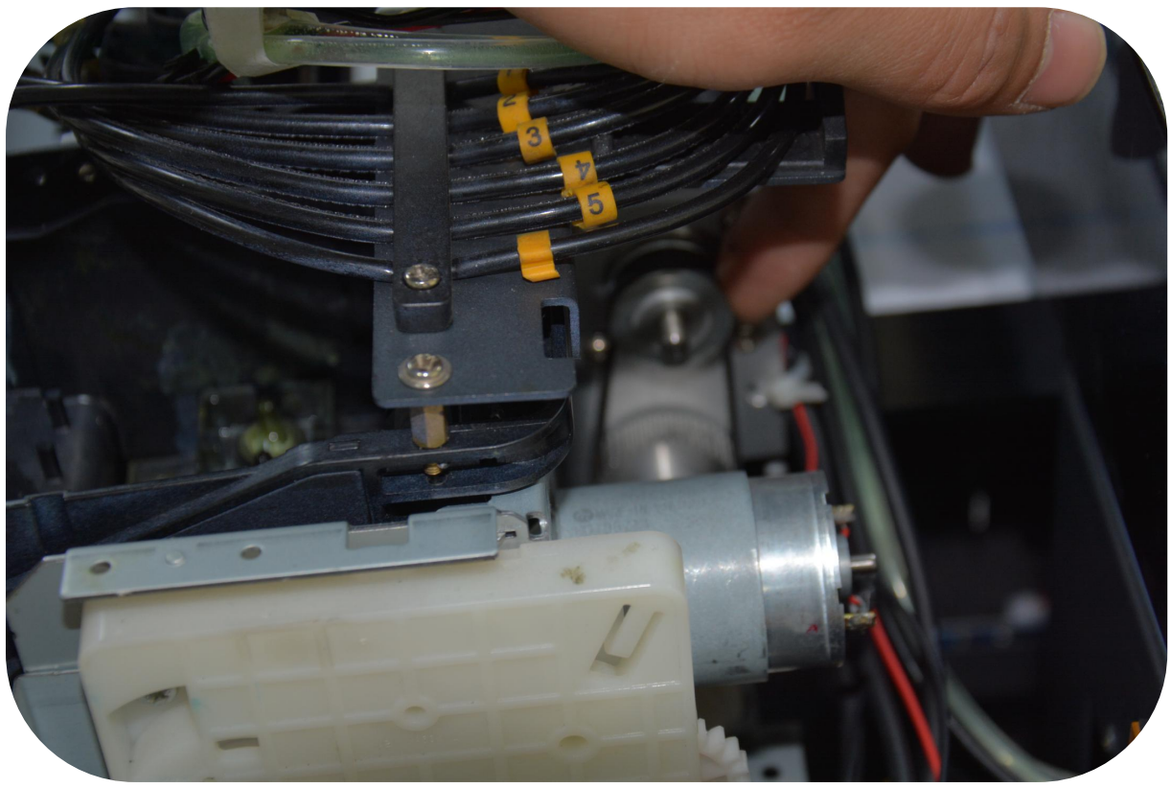




3. Check the bottom suface of print head is dirty or not. If so, we need to clean it with UV Cleaning Agent.

--- Rotate the carriage motor belt to unlock the carriage. Then move it into middle position.

--- Clean the buttom surface of print head with non-woven cloth and UV Cleaning Agent.

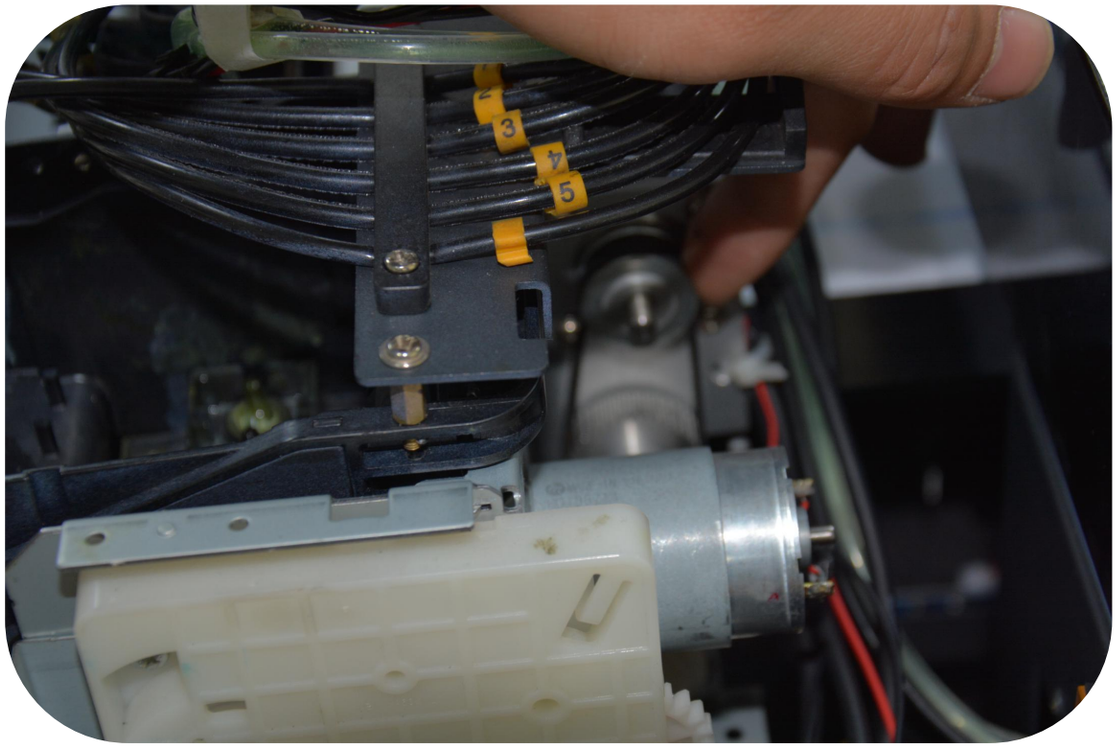


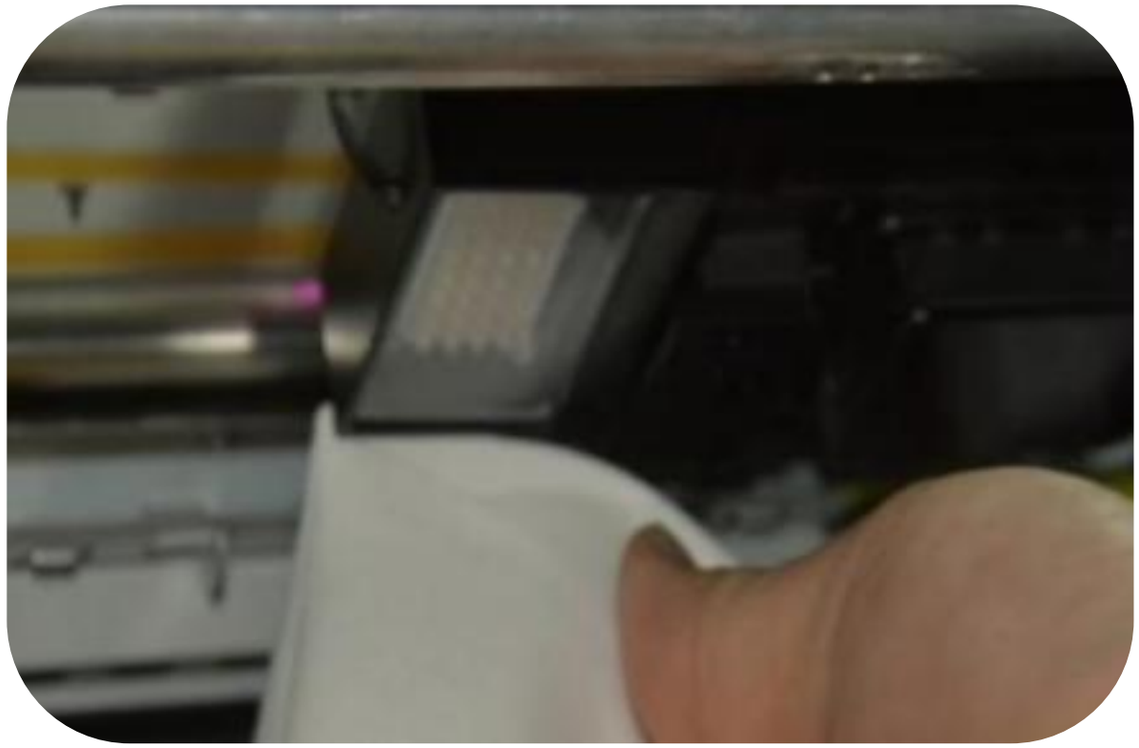


4. Check the bottom suface of UV Lamp is dirty or not. If so, we need to clean it with alcohol.

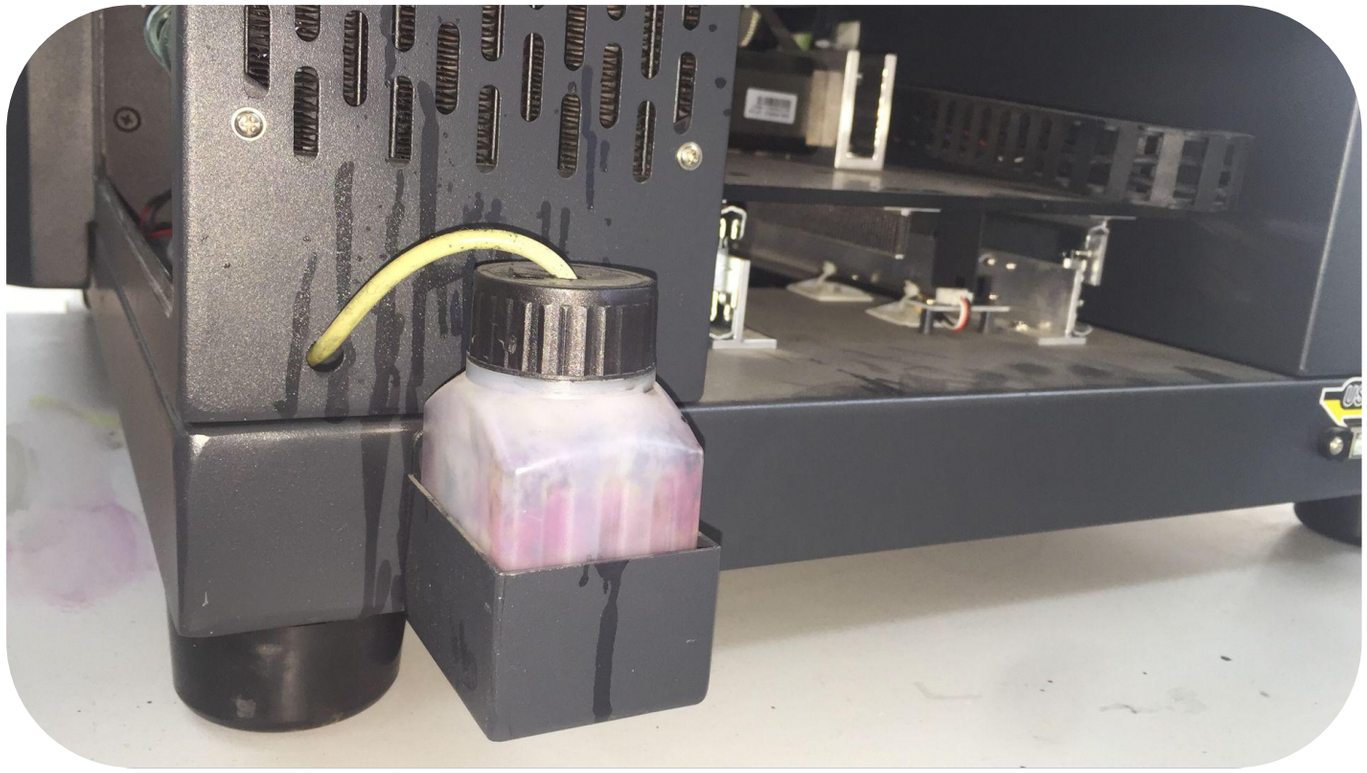
--- Rotate the carriage motor belt to unlock the carriage. Then move it into middle position.

--- Clean the buttom surface of print head with non-woven cloth and alcohol.



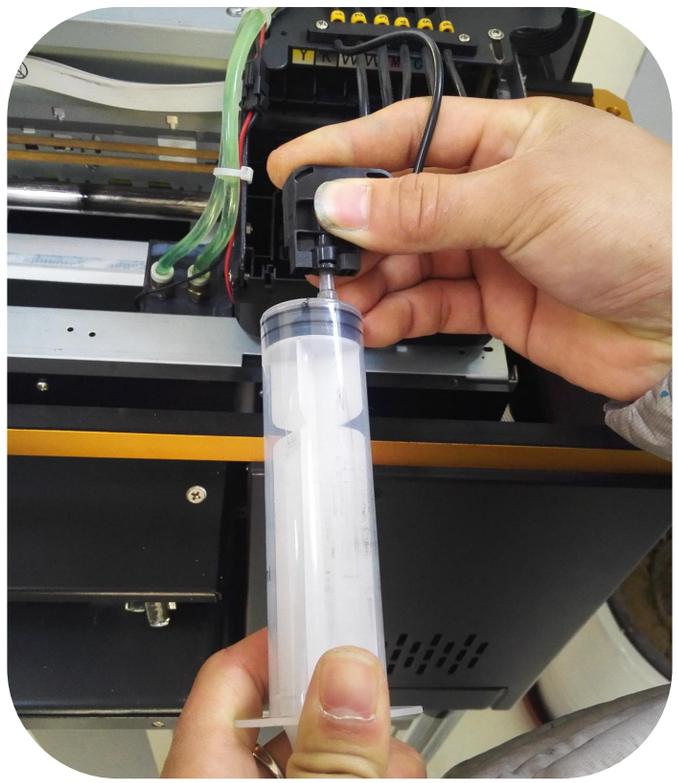


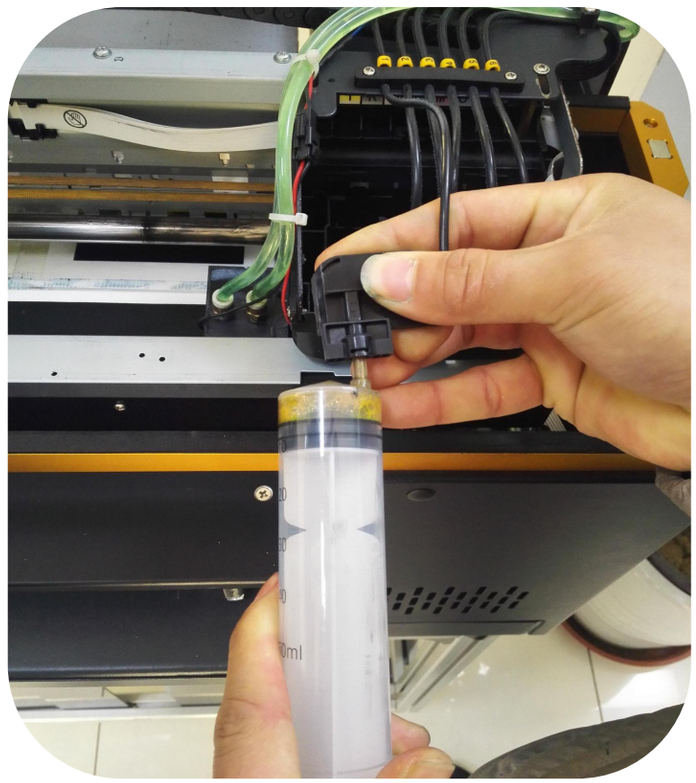
5. Check the level of Waste Ink Bottle. We need to empty it before the level reach 1/2 .



Ink System Condition --- Once the nozzle check result is not complete and the patterns are not full, then we need to check the ink system still under good condition or not.

1. Suck the inks from dampers to make sure we can get the inks properly without too much pressure (related parts clogged) or too much air (related parts leaking).





Ink Dampers condition checking.



If we can not suck out air properly,
it means the damper clogged.



If we can suck out air properly,
it means the damper damaged/leaking.

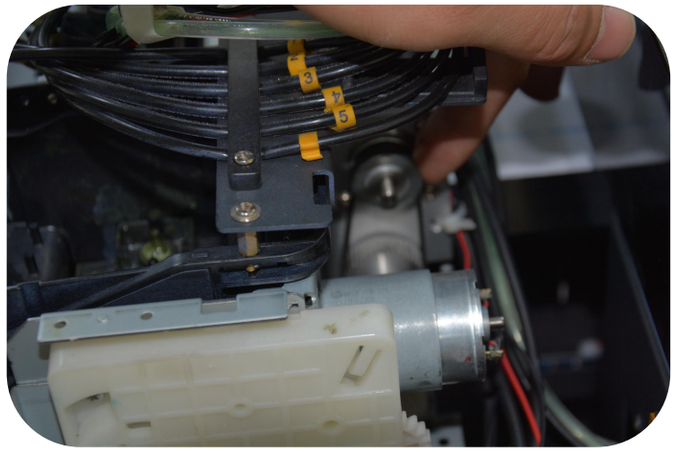
2. Suck the inks from waste ink tube to make sure we can get the inks properly without too much pressure (related parts clogged) or too much air (related parts leaking).

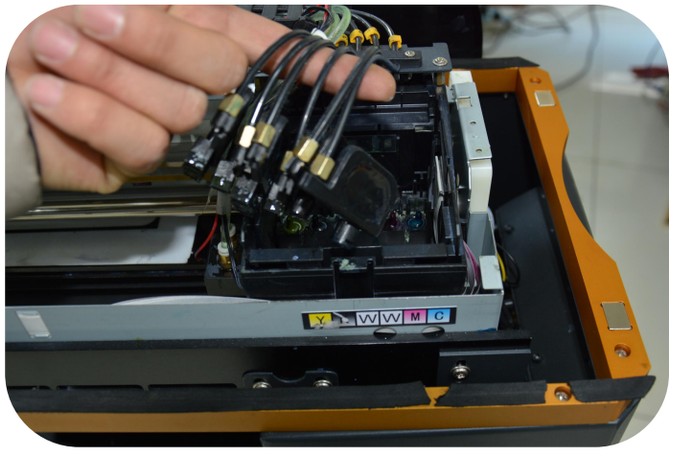


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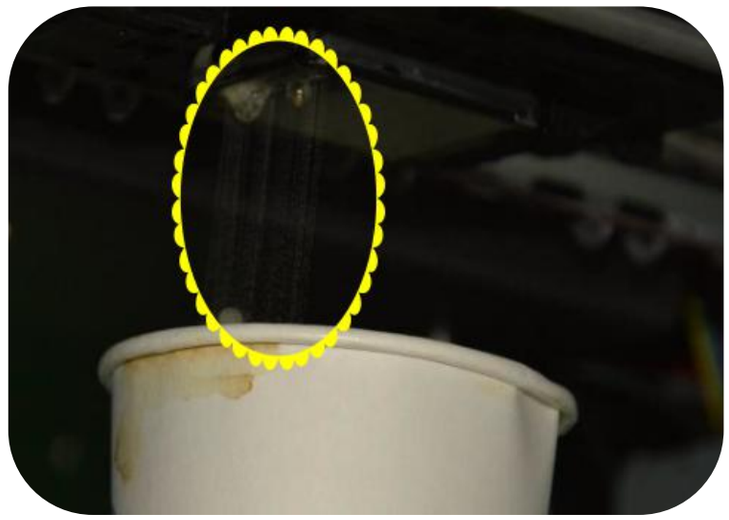
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Print Head Nozzles condition checking. (more details, please refer to *artisJet 2100U How to Replace Printer Head*.

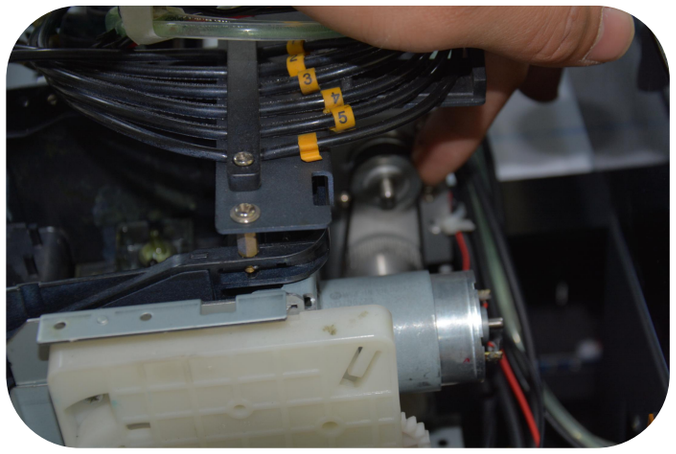


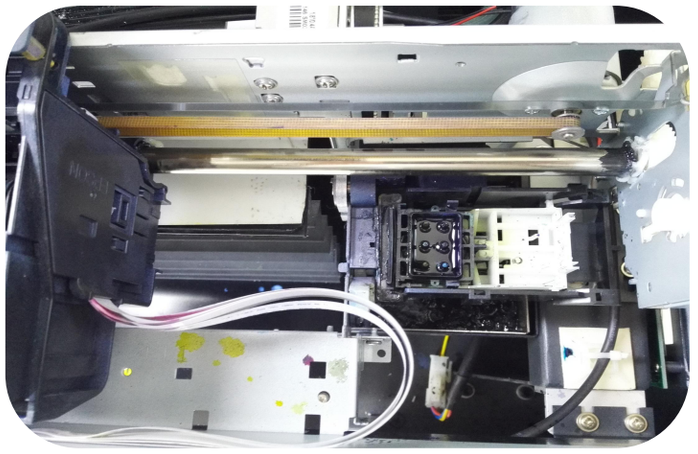


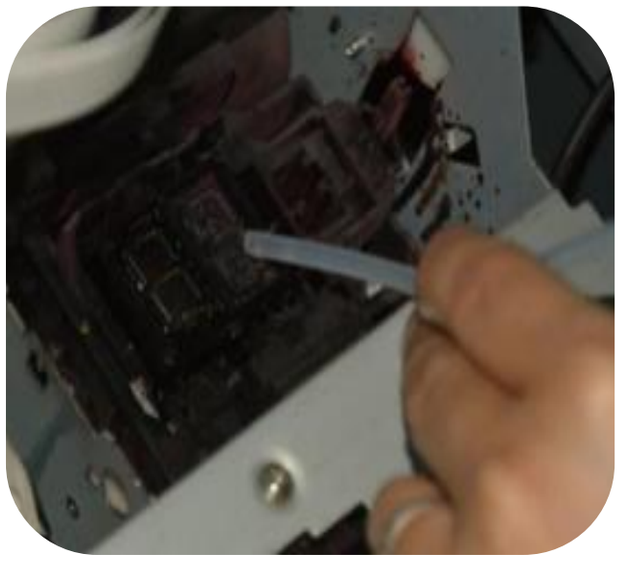




Ink Pump Unit (Cap Top) condition checking. (drop Cleaning Agent on Cap Top, then suck the waste ink tube to make sure we can suck out Cleanning Agent out properly)





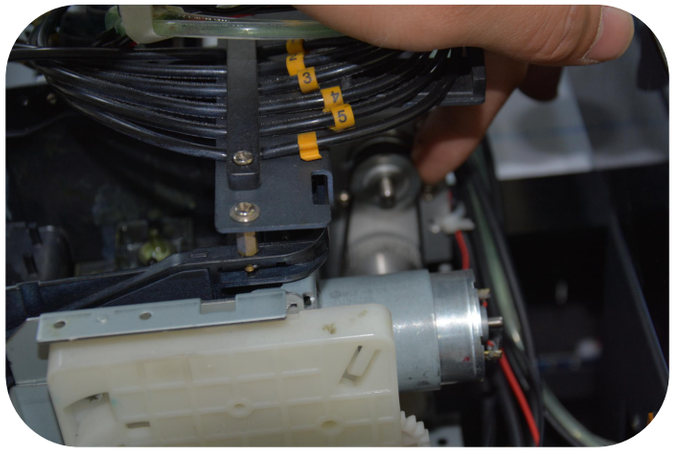


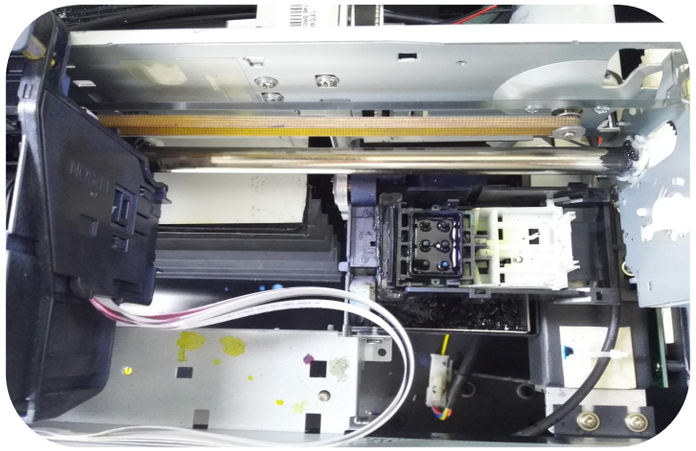


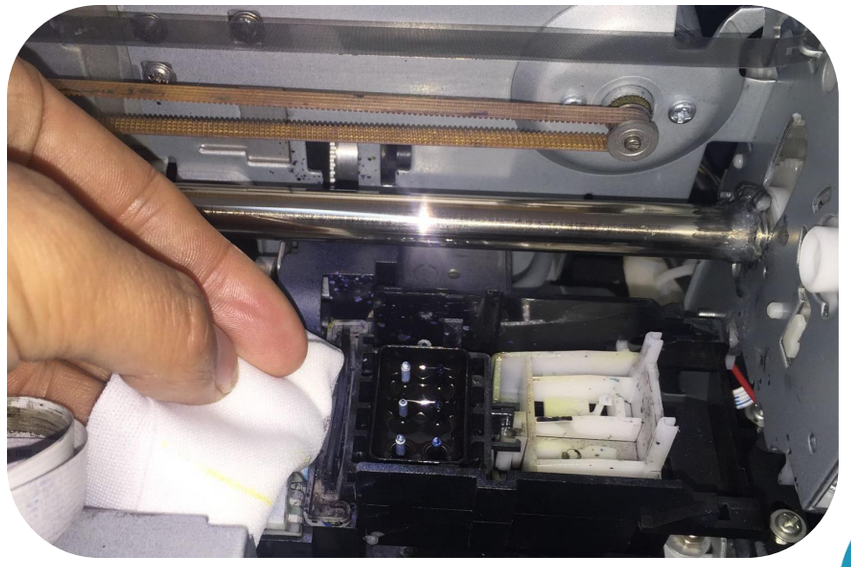
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Wiper condition checking. Once there is dirty inks, we need to clean the wiper by using non-woven cloth with UV Cleaning Agent.

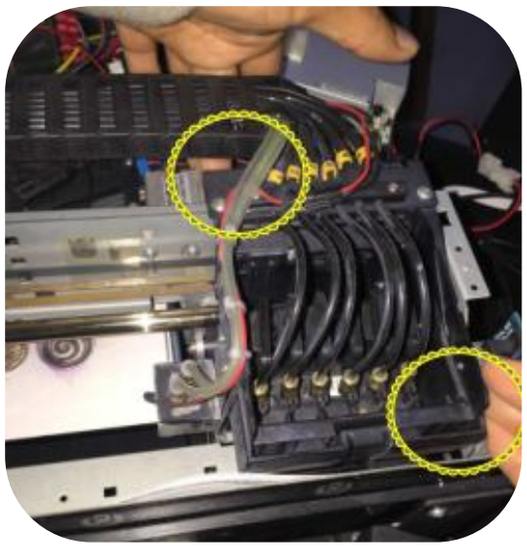






Mechanical System Condition --- Once the carriage can not moving properly, the machine shall not get READY mode properly or cause bad print result.

1. Check the Carriage Guiding Bar is dirty with dust/sprayed inks or not. If so, we need to clean it and lubricate it with solid grease properly.

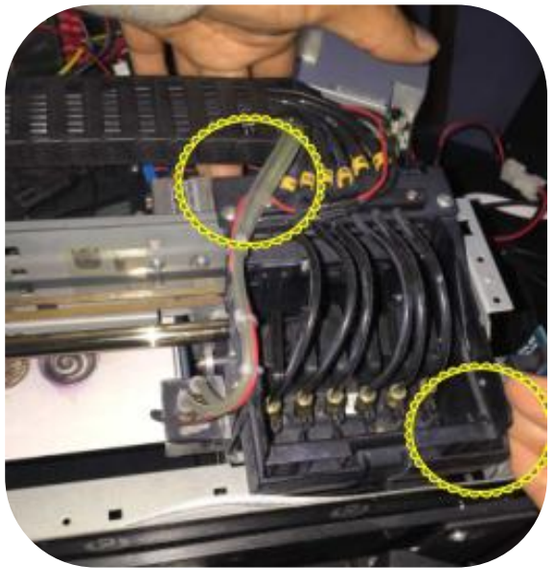








2. Check the Carriage Belt is dirty with dust/sprayed inks or not. If so, we need to clean it with alcohol and non-woven cloth properly.



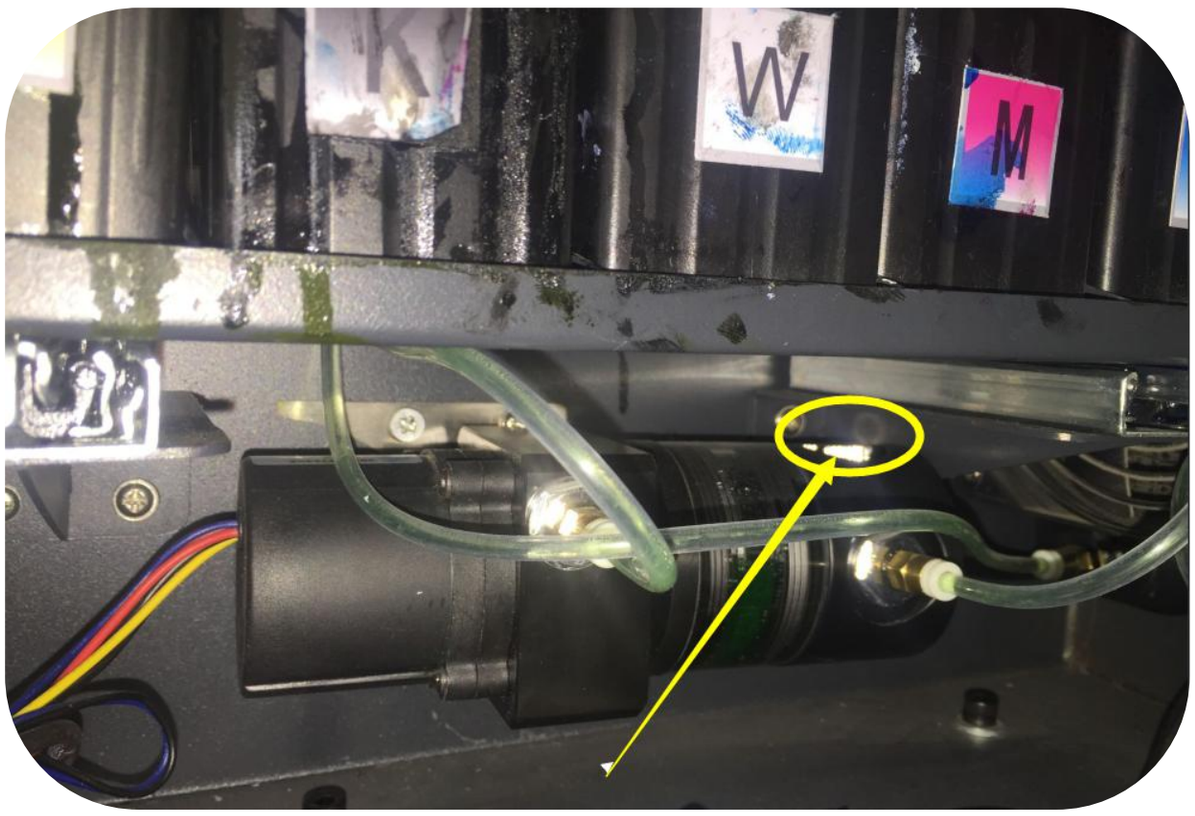


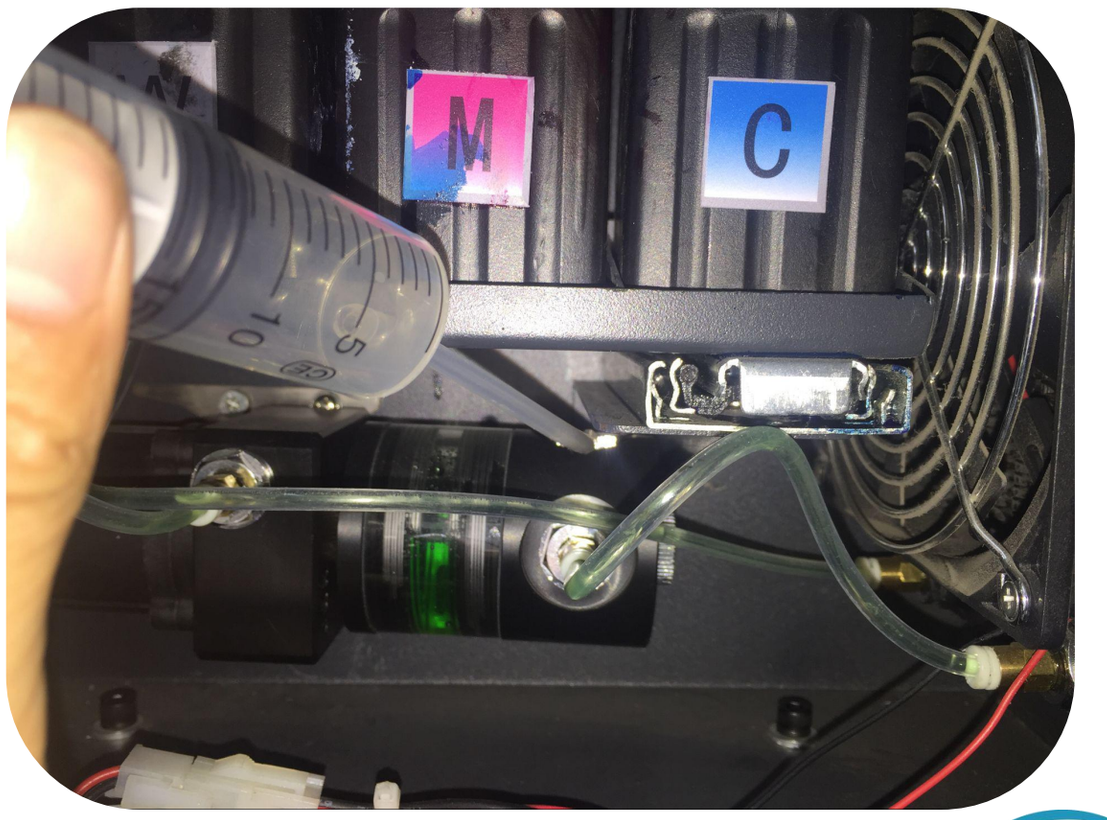


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UV Cooling System Condition --- Once the UV Cooling Liquid in the container is less than 1/2, we need to check is there any leakage in the tube connector or not. If not, we need to refill the UV Cooling Liquid (same type of anti-frozen liquid for car's engine).





36 Hours Holiday

Once the machine have to stop for more than 48 hours, we need to remove the inks inside the Printer Head. Otherwise, the inks inside the Printer Head shall be volatilized and the nozzles shall be get clogged.

a) Press DOWN button to lower down the table and make sure there is enough space between Printer Head and flatbed for placing cup or other container (collecting inks and cleaning agent inside the Printer Head).

b) Power off the machine by press READY button and General Power button.

c) Unlock the Printer Head and move it into middle position of the machine.

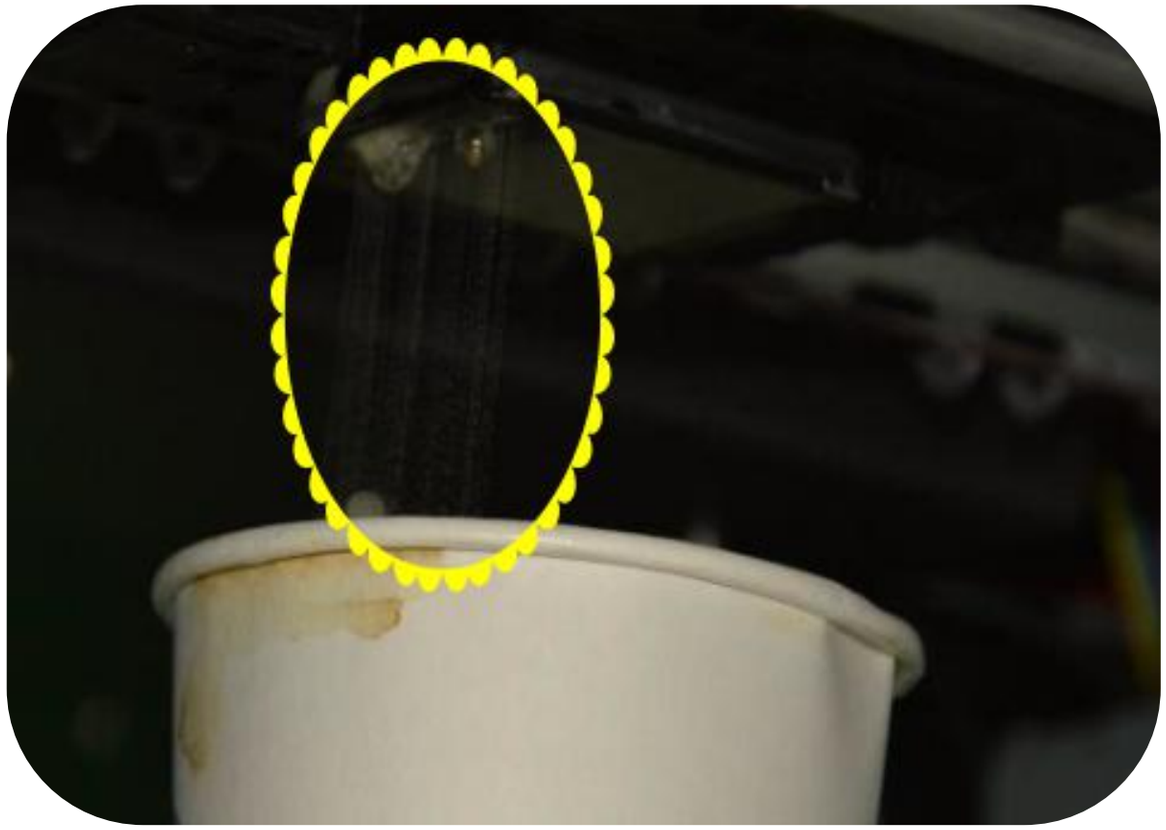
d) Remove the dampers from printer head, wrap them up with protective thin transparent film to avoid the inks inside getting dry.

e) Connect the soft ink tube with syringe. Then suck the Cleaning Agent into the syringes.

f) Remove the inks inside the Printer Head by pushing Cleaning Agent into the 6 nozzles of the Printer Head.

g) Put back the dampers into Printer Head. Then Move the Printer Head into its home position and lock it to make sure it connecting with Cap Top properly.





1 Week Holiday

a) Refill inks into ink bottles and make sure the ink level of each color inks no less than 2/3.

b) Make the Machine under READY mode, then set Auto Cleaning mode via machine's control panel (press MENU button ---> press MENU button again ---> press DOWN button and ENTER button to select EXTEND ---> press DOWN button to select AUTO CLEANING ---> press FORWARD/BACK button to ENABLED ---> press DOWN button to set as 15 Hours.

c) Keep the machine under READY & Auto Cleaning mode and DO NOT power off /disconnect the power cable.

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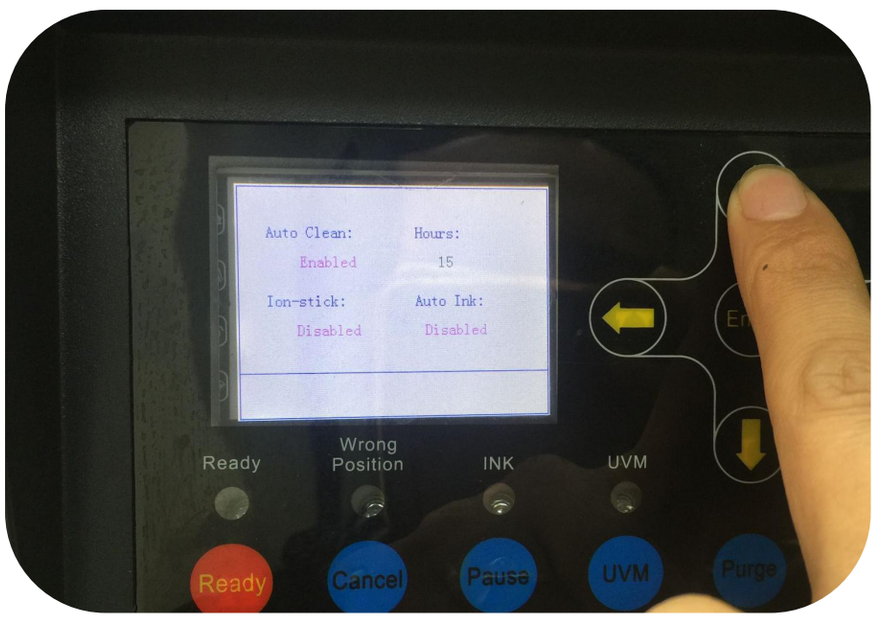
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Holiday Maintenance









More Than 1 Week Holiday

a) Remove the inks inside the Printer Head. (please refer to Step a to Step g of 36 Hours Holiday operation)

b) Remove the Printer Head . Wrap it up with thin protective film to protect the Cleaning Agen inside the Printer Head getting dry, then put it in cool place properly.

c) Wrap the dampers up with thin protective film to protect the Inks inside from drying.



Ink System Updating

a) Replace the Ink Bottles with filters around 6 months to avoid possible ink sendiment in ink bottles and filters clogged.

b) Replace Ink Tubes around 6 months to avoid possible clogging.

c) Replace Dampers around 3 months to avoid possible clogging.

d) Replace Wiper around 6 months to make sure the Printer Head surface can be wiped properly.

e) Replace Cap Top around 6 months to avoid any clogging and make sure the inks can be sucked out properly from Printer Head.

f) Replace the Ink Pump Station around 1 year to avoid any parts inside defective by spraying inks or cleaning agent.

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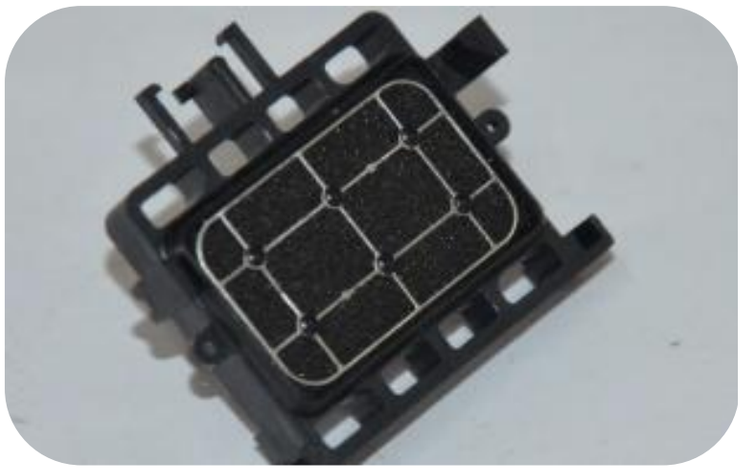
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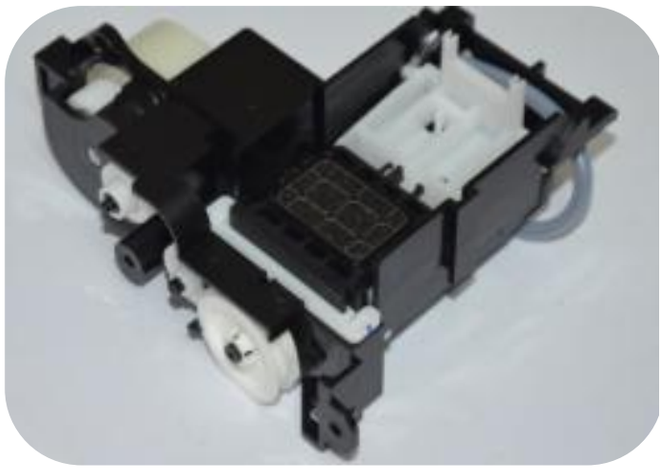












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