

artis 5000U Maintenance Manual

Direct to Substrate Printing Solutions

artisJet Customer Care
October 2017

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artis 5000U Maitenance Manual

Contents

Introduction 3

General Warning 4

Ink Selection 5

Working Environment 6

General Introduce 7

Dialy Proceduare 11

Daily Maintenance 15

Weekly Maintenance 19

Holiday Mode 26

Special Maintenance 28

Ink System Replacement 29

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Thanks for selecting artis 5000U 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 and Varnish Ink, 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 gloves to protect your hands once you need to perform ink filling or other operations related with inks.
- Keep the UV LED 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.



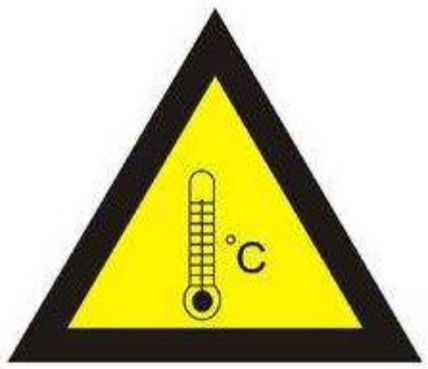
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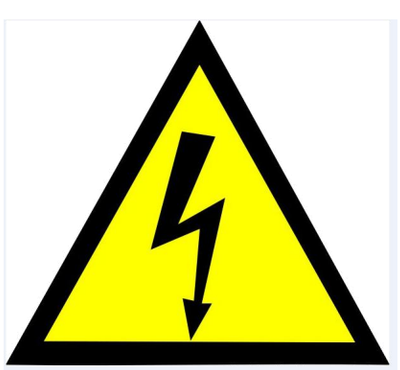
Due to the stability of the ink determines the condition of printer head while the stability of the ink is determined by the viscosity, surface tension, volatility and mobility of the ink, we need to store and use the ink under proper temperature and humidity. The suggested temperature should be 15℃-25℃ 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.





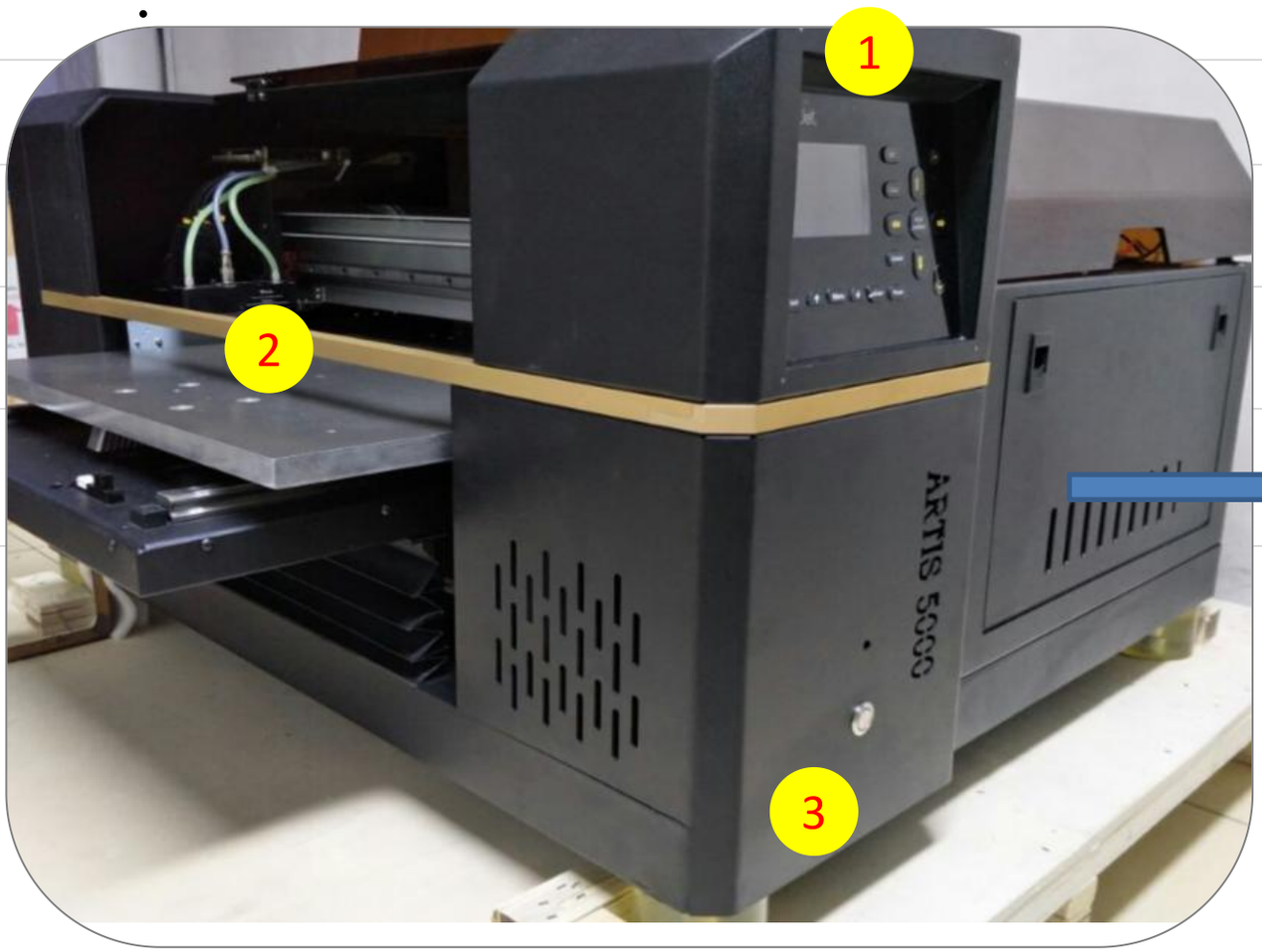




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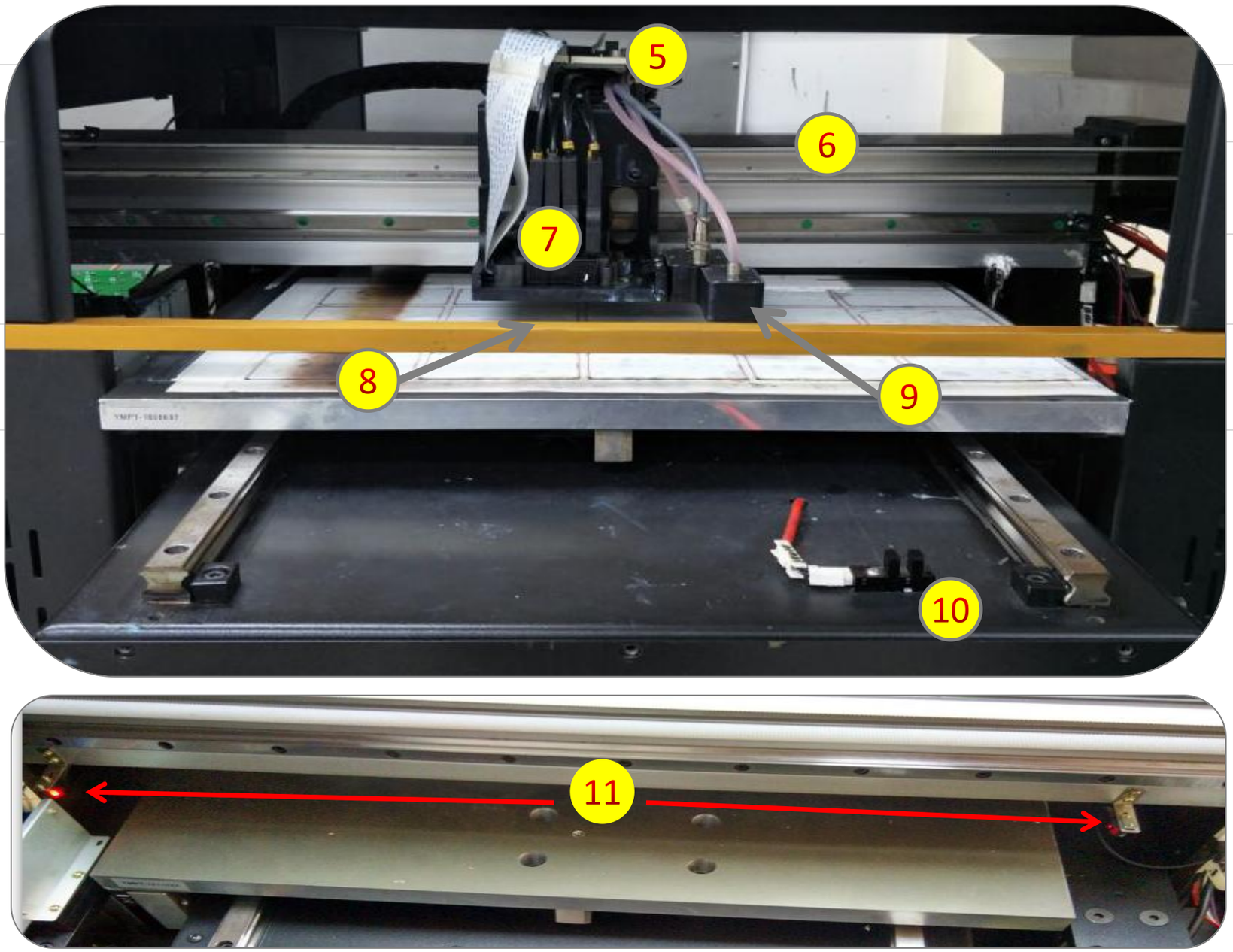


1. Control Panel
2. Flatbed
3. General Power Button
4. Ink Bottles



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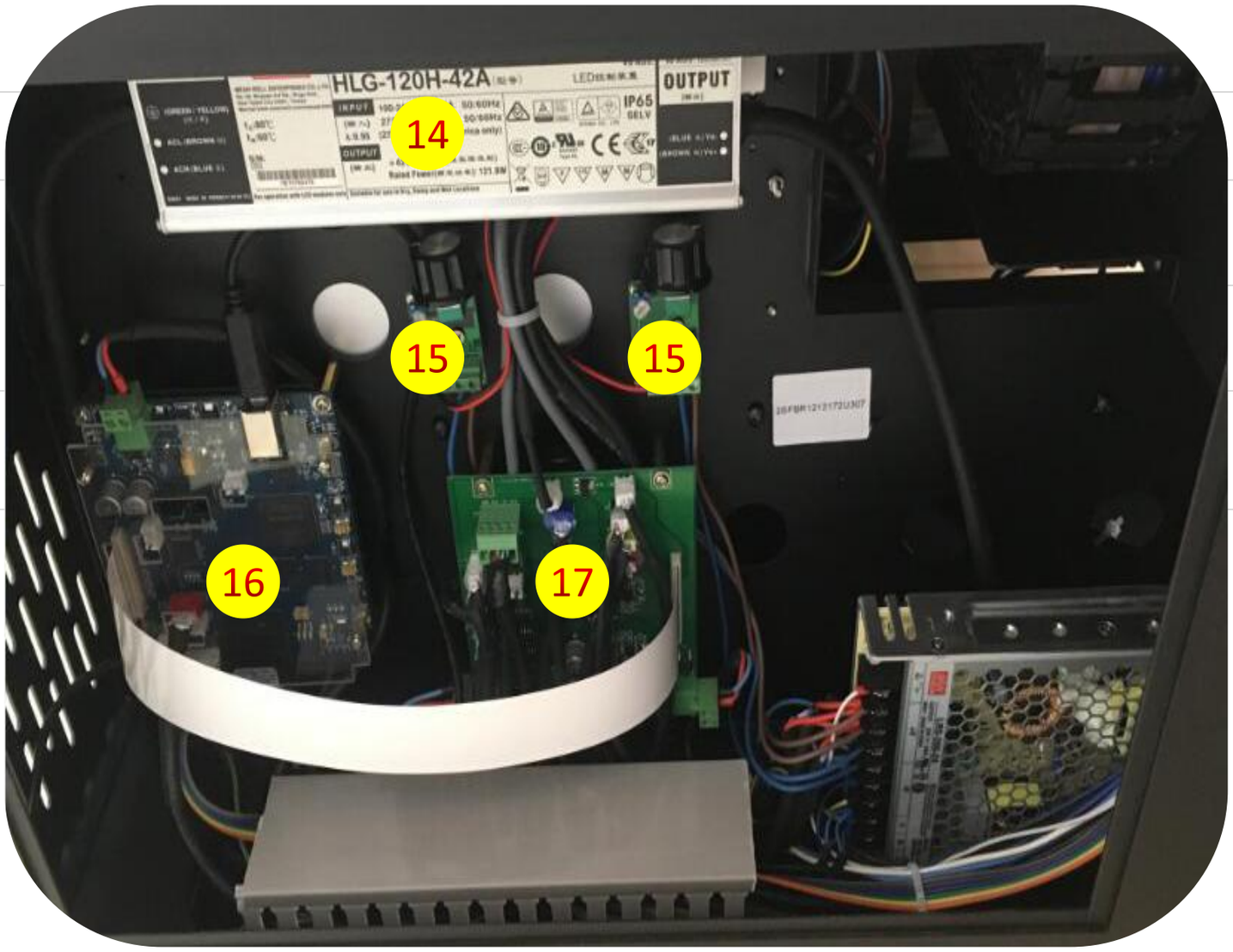
5. Carriage Board
6. Encoder Strip
7. Dampers
8. Print Head
9. UV Lamp
10. Front-Limit Sensor
11. Up-Limit Sensor



12. USB Cable Connector
13. Power Cable Connector

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14. Print Head Power Supplier
15. UV Lamp Power Adjusters
16. Main Board
17. SCM Board

Before Daily Product Printing

1. Shake each ink bottles to avoid any sendiment at the bottom

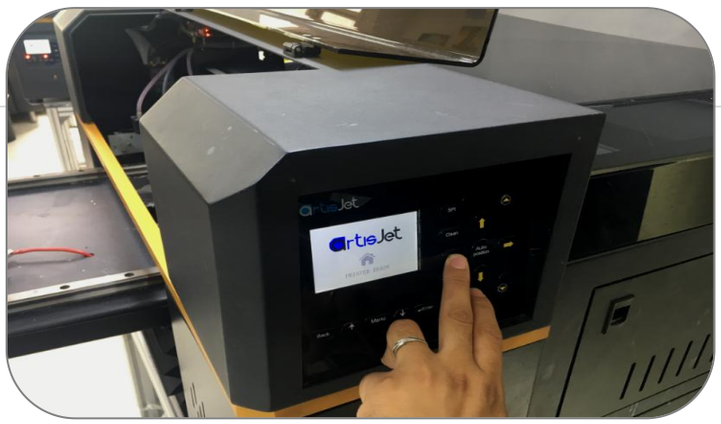
2. Check ink level of ink bottles is enough or not.

3. Press General Power button to turn on the machine.



4.Press Forward/Back button to move out/back flatbed.

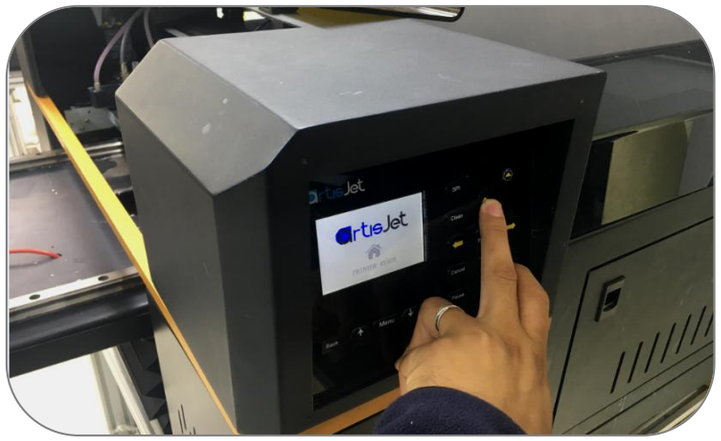
5.Press Up/Dowan button to move up/down flatbed.



Forward button



Back button



Up button



Down button

6. Auto Head Cleaning by press Clean button on control panel.

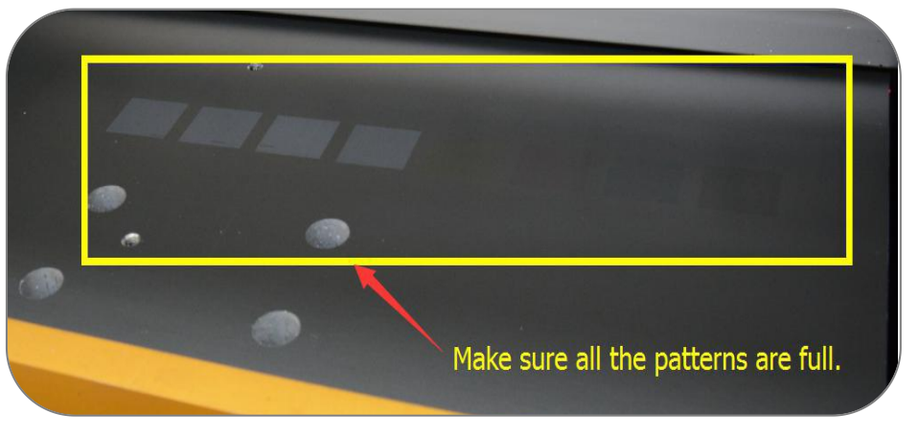
7. Nozzle Check via artis 5000U Printing Software and make sure all the color paterns can be printed fully. (please refer to *artis 5000U Set Up and Installation*)



Clean button



Nozzle Check

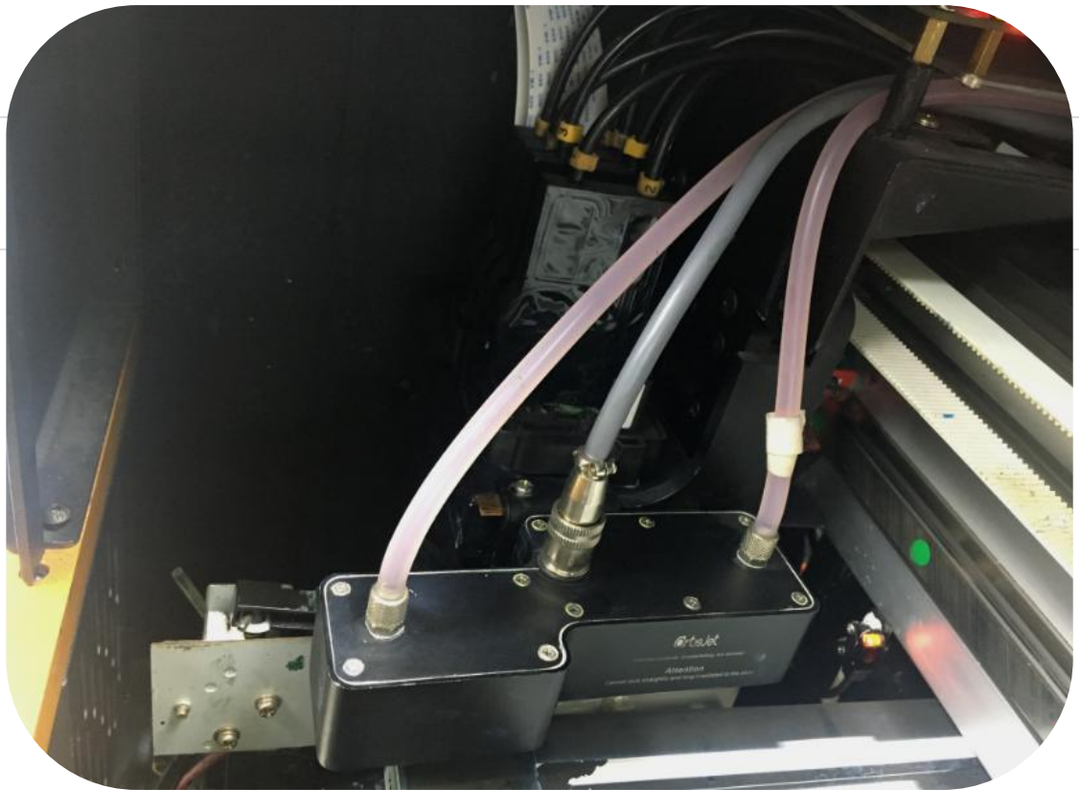


Power off the machine properly.

--- Make sure the Print Head is back at its left home position.

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

--- Disconnect the Power Cable.



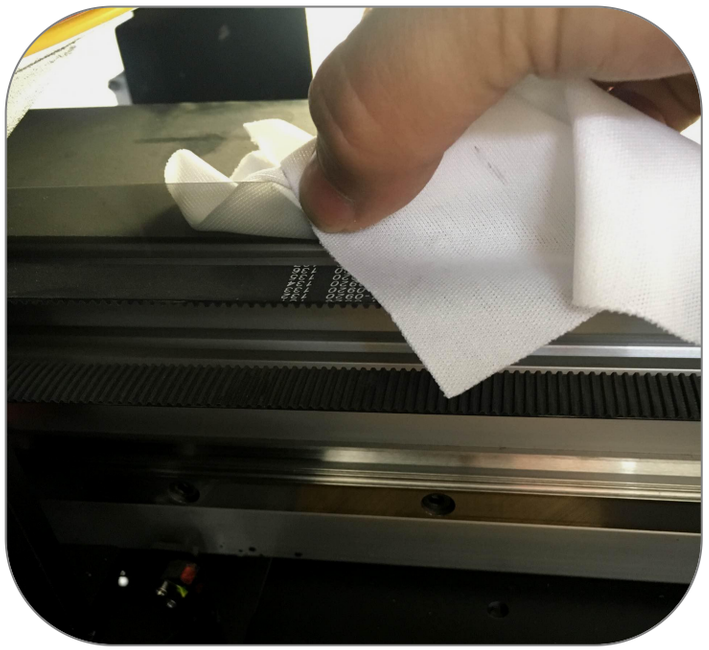
Perform Daily Maintenance

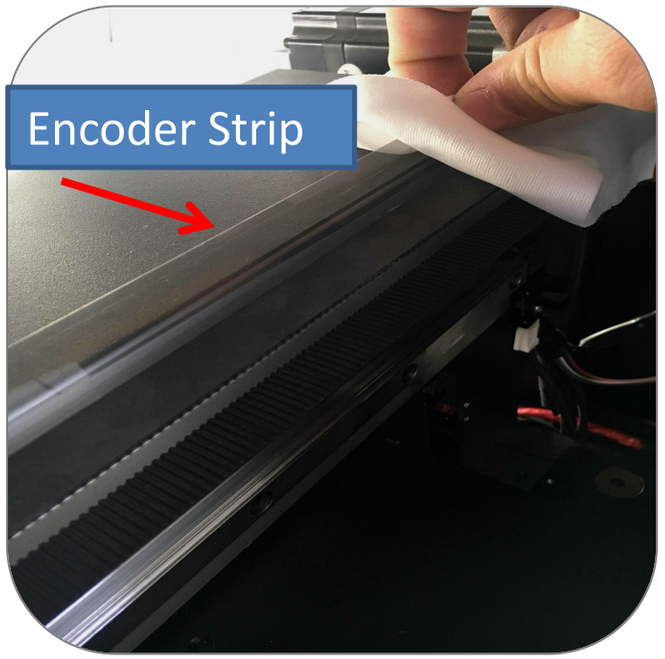
1.Clean Encoder Strip with alcohol and non-woven cloth.

After a period of printing, there is dirty ink on the surface of Encoder Strip.

The Encoder Strip is to control carriage movement accurately like a ruler. If dirty, the carriage movement would not correct with bad printing result.







2. Check the bottom surface of print head is dirty or not.

If so, we need to clean it with UV Cleaning agent/liquid.

---Move ink carriage to middle position.

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



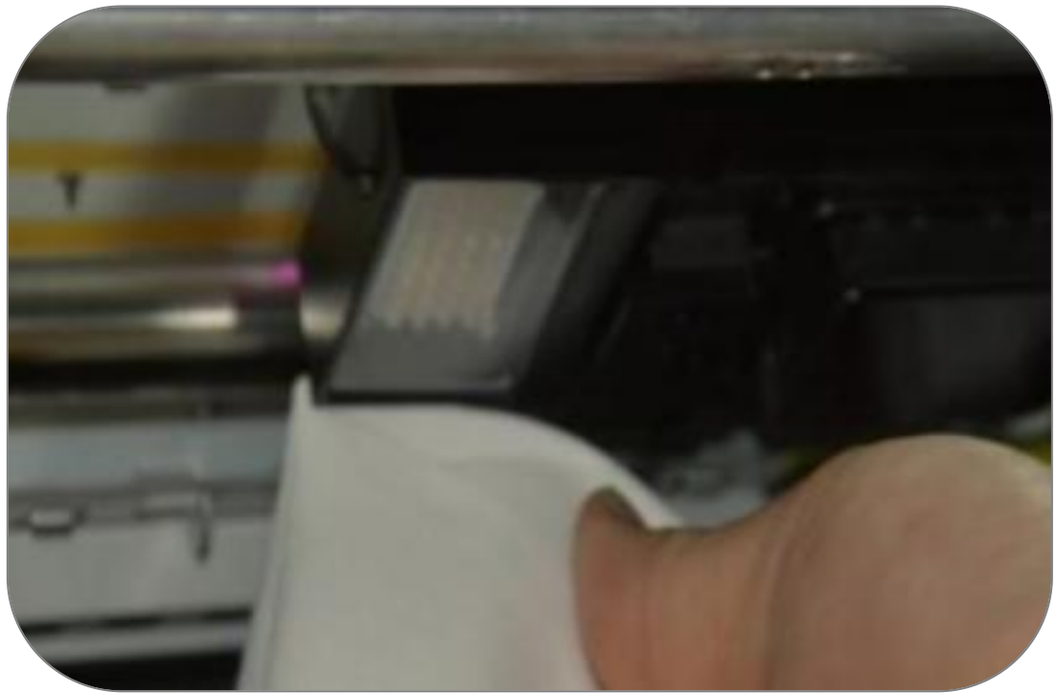


3. Clean the glass surface of UV Lamp with alcohol and non-woven cloth.

After a period of printing, there is dirty ink on the surface of UV lamp.

---Move ink carriage to middle position. 换图





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

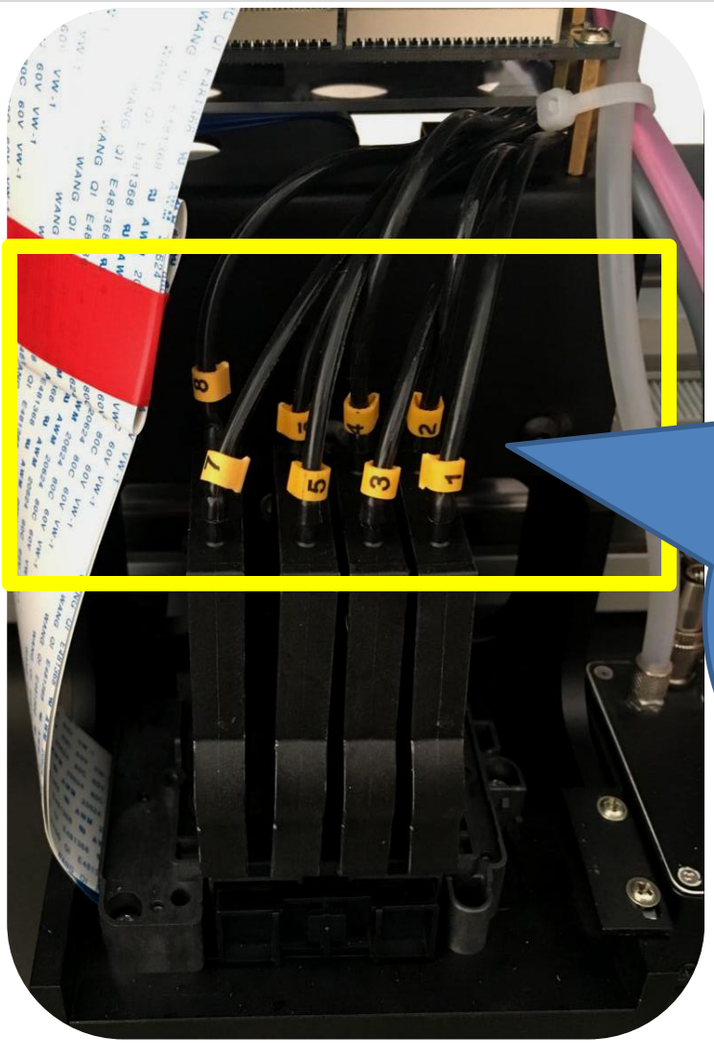


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Check the Ink Tubes Order correct or not on Dampers.

Make sure the Ink Tubes are inserted into correct position of the dampers.



#1 and #3 Ink Tubes shall be Varnish Ink.

#2 and #6 Ink Tubes shall be White Ink.

#4 Ink Tube shall be Yellow Ink.

#5 Ink Tube shall be Cyan Ink.

#7 Ink Tube shall be Black Ink.

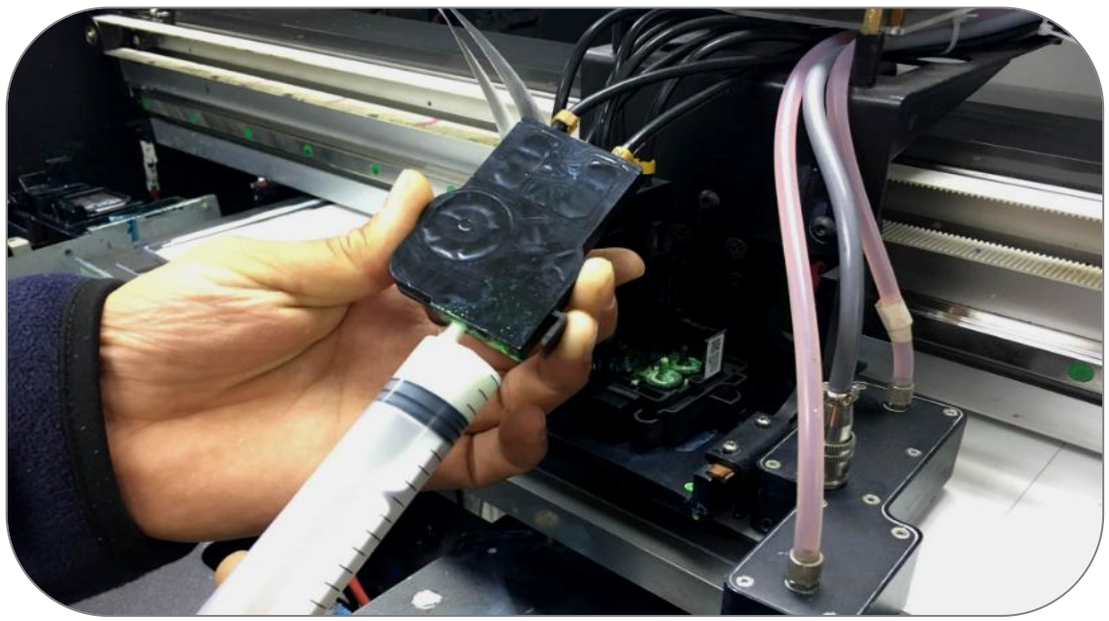
#8 Ink Tube shall be Magenta Ink.

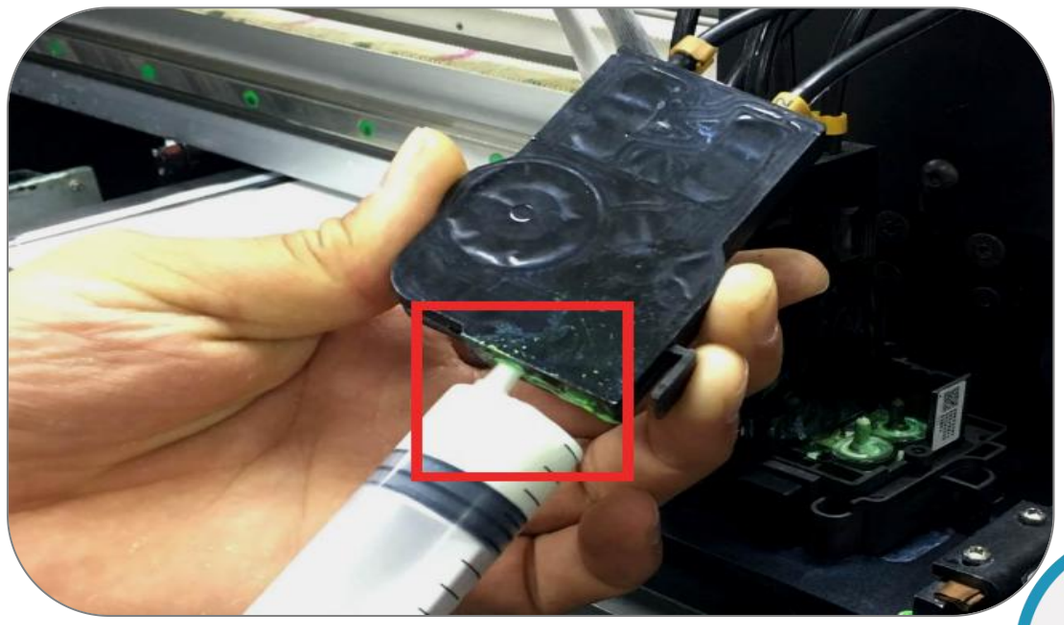
Preform Weekly Maintenance

Ink System Condition Checking

--- Once the nozzle check result is not complete and the patterns are not full, then we need to check the ink system.

1. Suck the inks from dampers to make sure ink come out without too much pressure (related parts clogged) or too much air (related parts leaking).

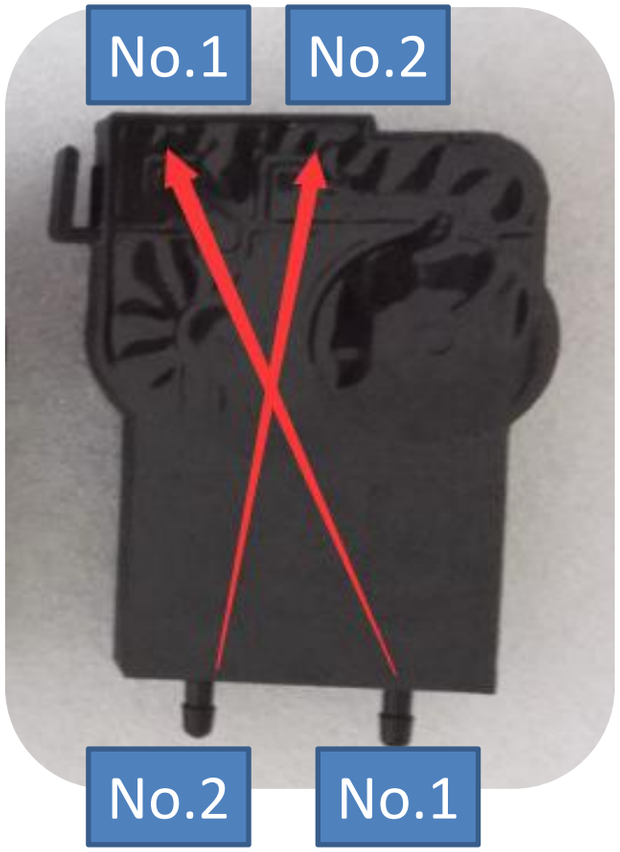




2.Ink Dampers condition checking.

---There are two ink channels of each damper.

---The ink channels of damper are crossed as photo shows.







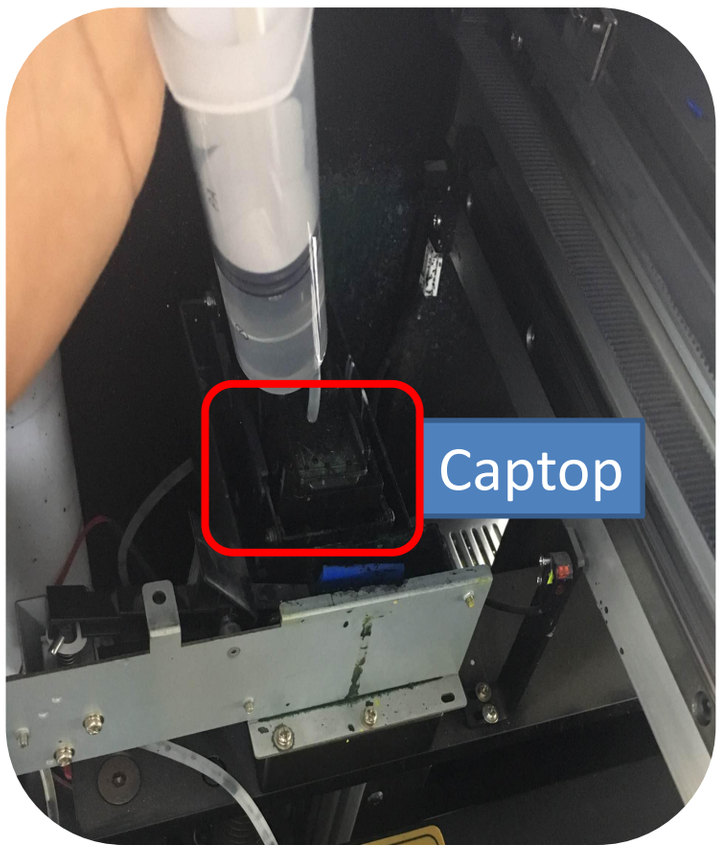
Seal one end of damper by hand, then pull the syringe.
If we can suck out air properly, it means the damper is damaged/leaking.

Keep one end of dampers open, then pull the syringe.
If we can not suck out air properly, it means the damper is clogged.

3.Ink Pump Unit (Cap Top) condition checking.

Drop Alcohol on Cap Top, then suck the waste ink tube to make sure liquid can come out properly without air.

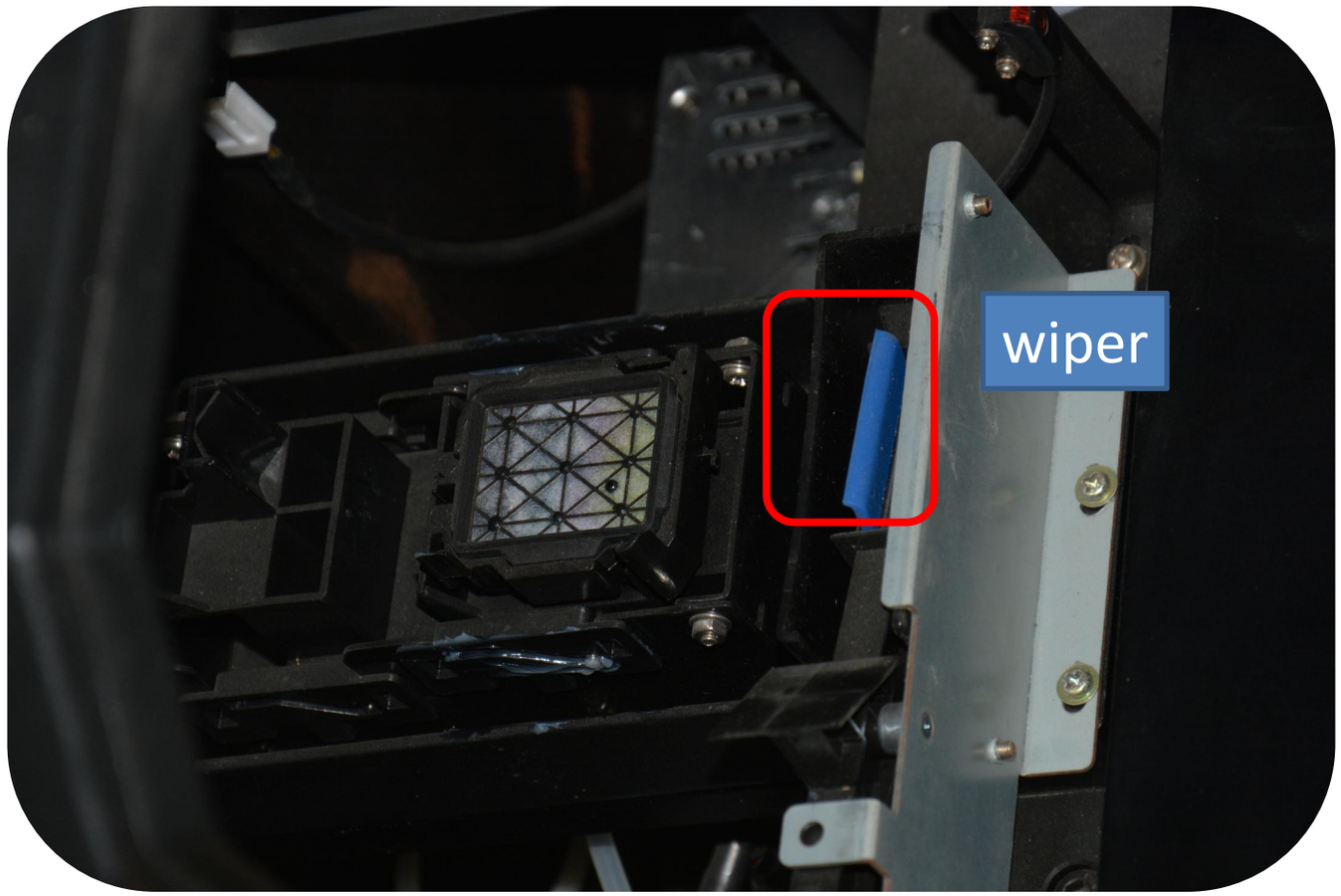






4.Clean wiper with alcohol and non-woven cloth.

The wiper function is to wipe surface of print head at home position so there is no dirty ink on the surface.



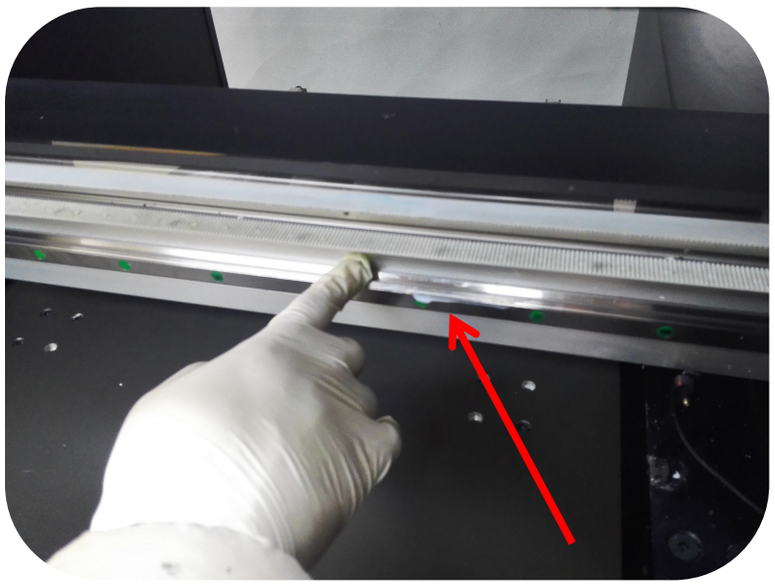
---Move out print head from home position.
---Clean wiper with non-woven cloth and alchohol.



Mechanical System Condition

1. Clean the Carriage Guiding Bar with non-woven cloth firstly.

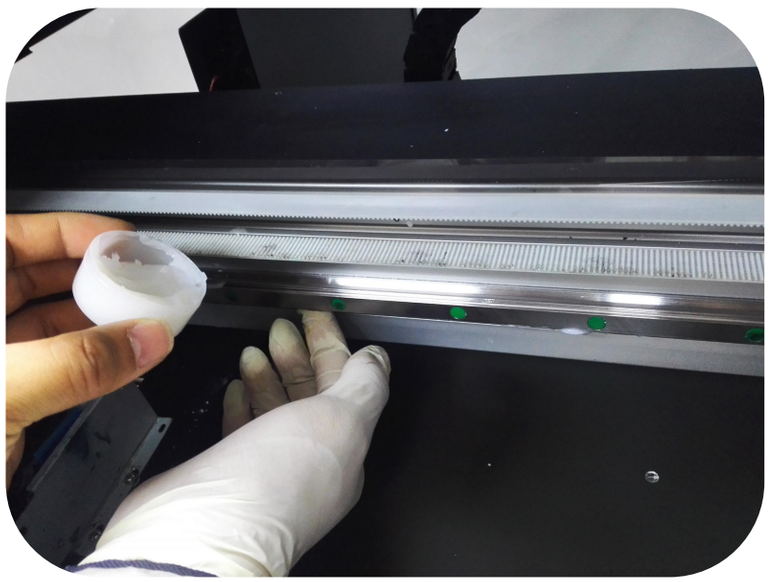
Next lubricate grease on the bar and move carriage many times from left side to right side.



carriage guiding bar

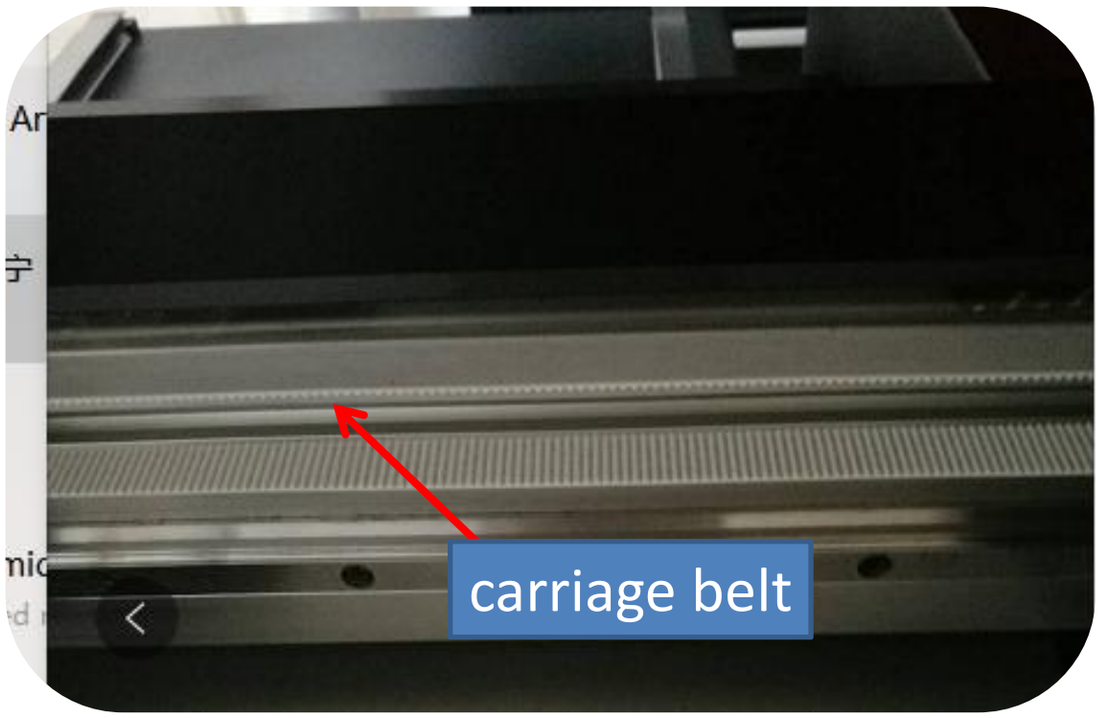


non-woven cloth



grease

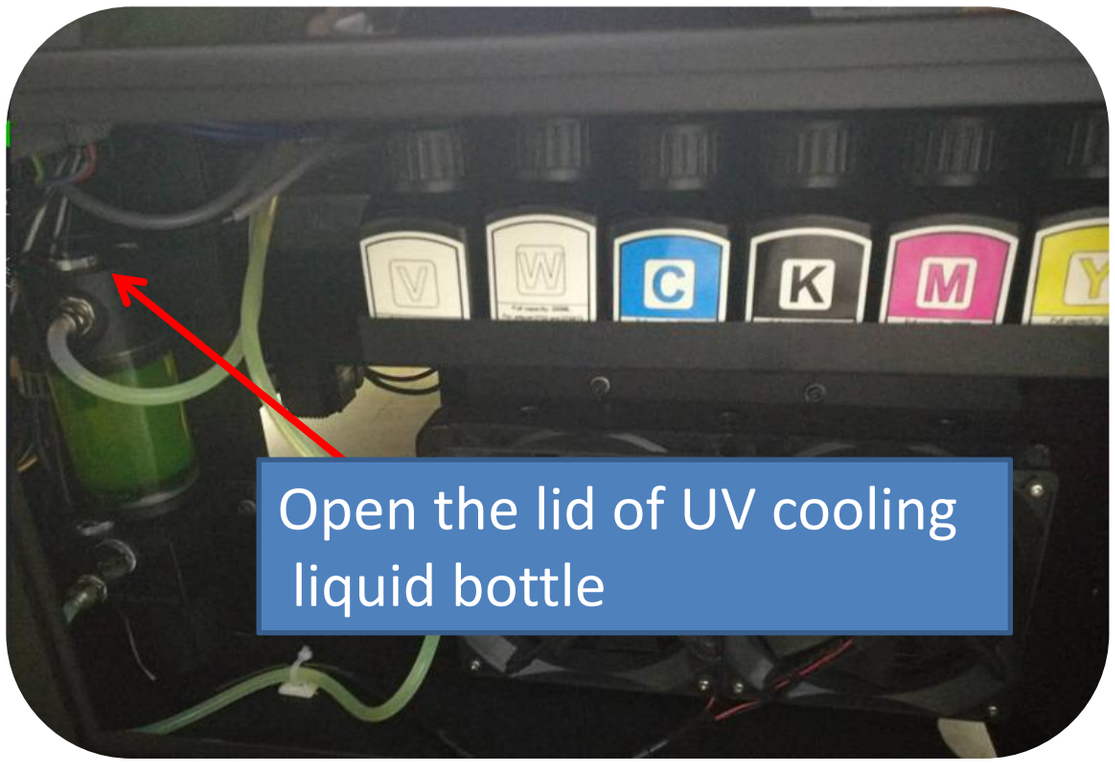
2. Clean the carriage belt with alcohol and non-woven cloth. After a period of printing, there would be dirty ink on the surface of carriage belt.

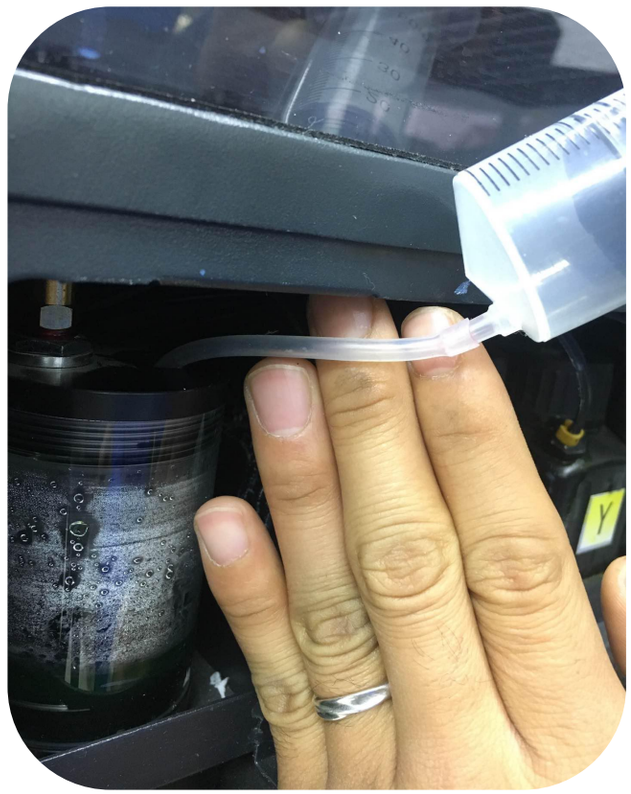




UV Cooling System Condition

--- 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 **(the same type of anti-frozen liquid for car's engine).**





Holiday Mode (within 2-3 weeks)

The default setting for holiay mode is closed.

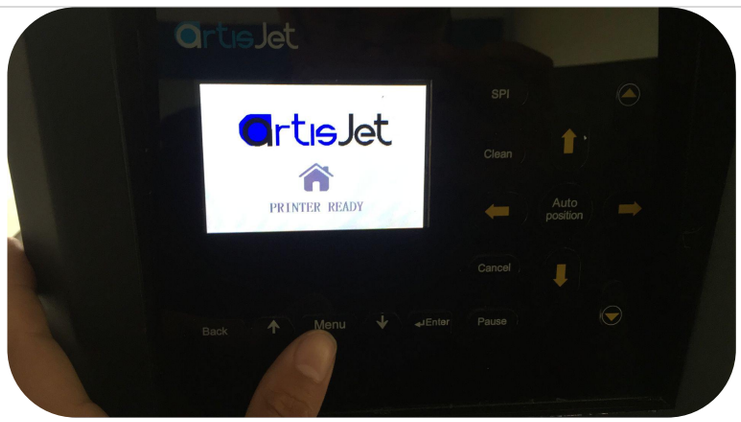
1. Power on printer and make sure the printer gets on Ready mode.

2. Press Menu button-->press ENTER button to set it OPEN ---> press BACK button.

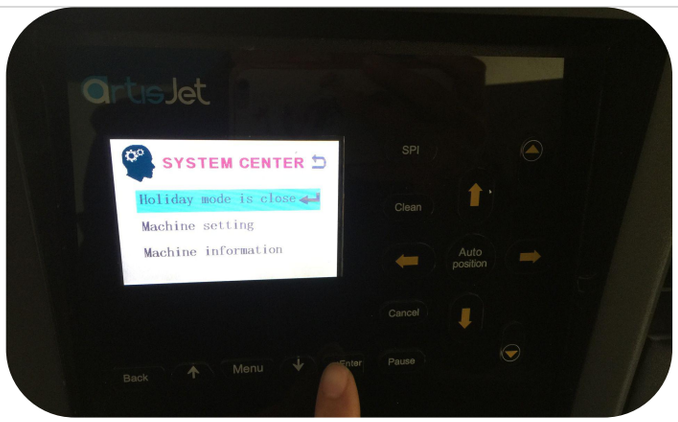
--->The holiday mode is open.

3.Make sure there is enough ink in all ink bottles for holiday mode.

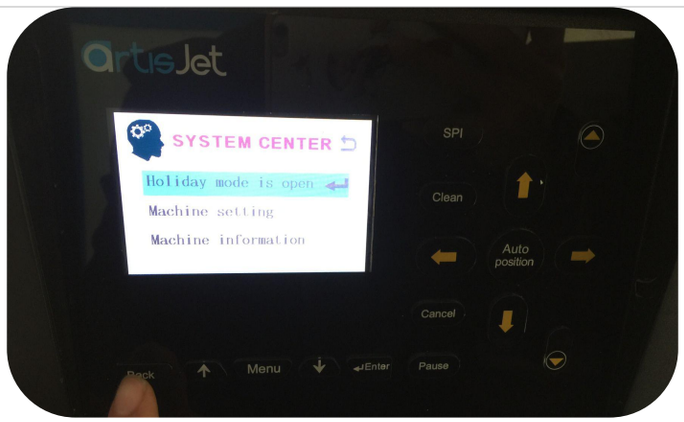
4. Empty waste ink bottle before setting holiday mode.



Menu button



Choose holiday mode



Holiday mode is open

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NOTICE:

1.The printer must be on Ready mode can perform auto cleaning in holiday mode.

2. Don't power off printer or discanect power cable.

3. If there is no stable power supply, please don't choose holiday mode.

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Special Maintenance if printer would stay idle more than 1 month.

a) Remove the inks inside the Printer Head.

b) Remove the Printer Head .

c) Pack it with wrap and place in cool condition to avoid sunshine.



Ink System Replacement (Not cover warranty)

1) Replace the Ink Bottles with filters every 3 months to avoid possible ink sediment in ink bottles and filters clogged.

2) Replace Ink Tubes every10 months.

3) Replace Dampers every 3 months.

4) Replace Wiper every 3 months to make sure the Printer Head surface can be wiped properly.

5) Replace Cap Top every 3 months to avoid any clogging.

6) Replace the Ink Pump Station every 10 months to avoid any parts inside defective by inks or cleaning agent/liquid.

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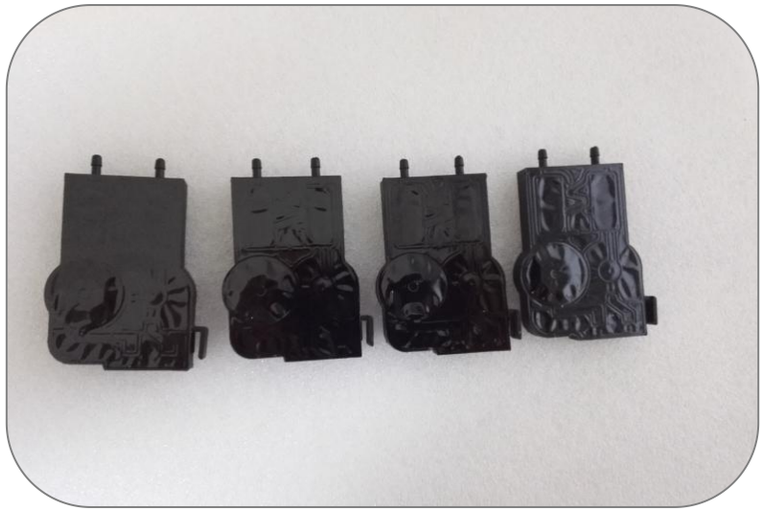
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Ink bottle



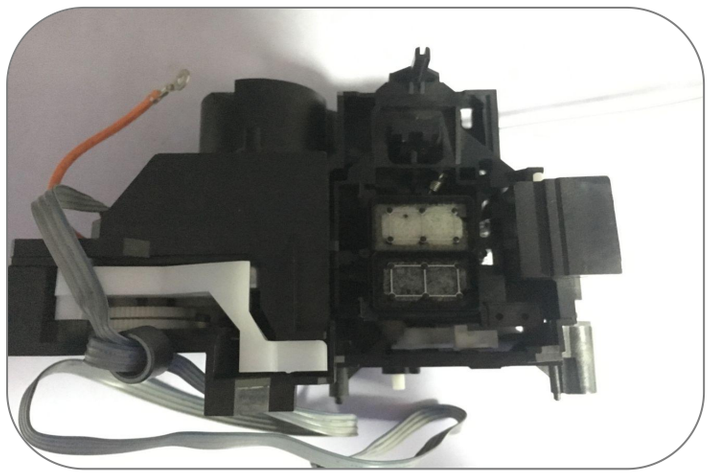
Ink tube



Dampers



Wiper



Ink pump



Captop

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