



MATRIX
UV SERIES

ABOUT MANUAL



Regular maintenance and cleaning procedures are required and need to be performed as directed. This will ensure excellent print results and a better quality of life for your printer.

If you have any questions please contact us for assistance.

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SAFETY GUIDELINES

To be safe:

- Protect yourself from direct contact with any uncured ink.
- If you get ink on your skin, wash immediately with soap and water.
- Wear safety glasses and nitrile gloves during all procedures.



User must wear protective glasses while performing certain task / operation



User must wear protective gloves while performing certain task / operation

MAINTENANCE CHECK LIST

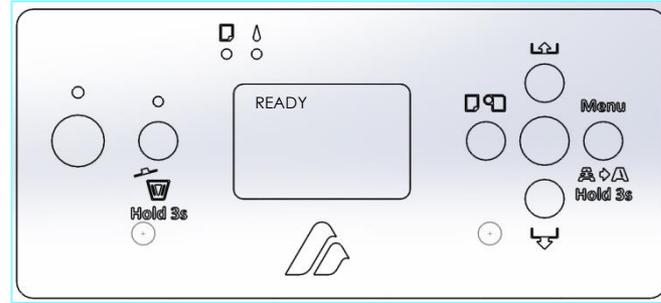
Maintenance Check List

	Daily	Weekly	Monthly	180 Days	As Needed	Ref Page
Automatic Print Head Cleaning		X			X	5
Manual Print Head Cleaning		X				6
Nozzle Check	X					9
Cleaning Capping Station & Wiper Blade		X				12
Cleaning UV/LED Light			X			14
Cleaning Linear Encoder			X		X	17
Replace Capping Unit				X	X	20
Empty Ink Waste Bottle					X	26
Replace Pump assembly					X	28
Replace the Wiper Blade				X	X	29
Fill ink tanks					X	32
Damper replacement				X		33
Recirc Pump channel replacement				X		34
Recirc Pump replacement					X	39

AUTOMATIC PRINT HEAD CLEANING

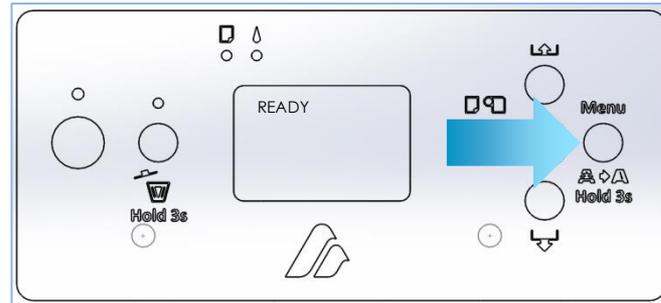
1

Printer must be in
"READY" status



2

Press and hold "**MENU**" button for 3 seconds



MANUAL PRINT HEAD CLEANING

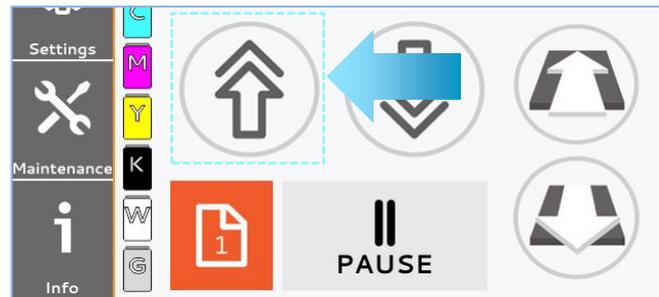
1

Printer must be in
"READY" status



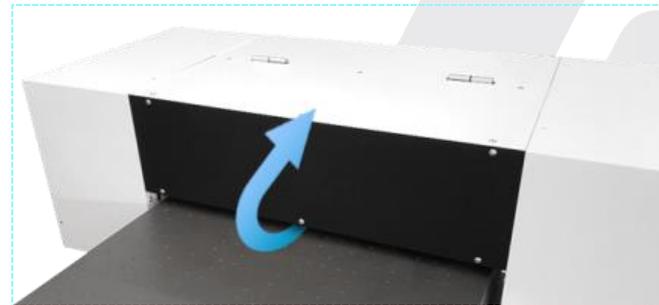
2

Rise the gantry UP



3

Open front cover
[most operations can
be done with just
opening cover]



MANUAL PRINT HEAD CLEANING

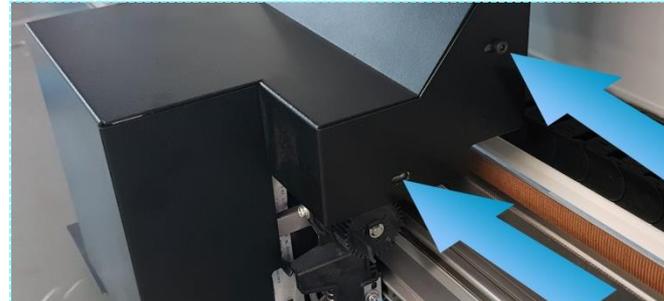
4

Manually unlock the carriage by pressing the blue lever.



5

Slide the carriage to the left, away from the capping station, so it sits in the center of the print bed.



6

Dip the foam swab into the Print Head Cleaner **Do NOT** double dip. This will contaminate the entire bottle.



MANUAL PRINT HEAD CLEANING

7

Gently clean the print head and the metal edges around the print head



When you finish cleaning the print head, move the carriage all the way back to the right and close the cover

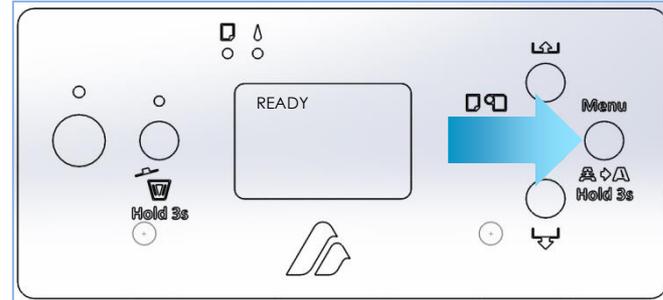
Remove all tools, cleaners, and other items from the print bed

Make automatic head cleaning

NOZZLE CHECK

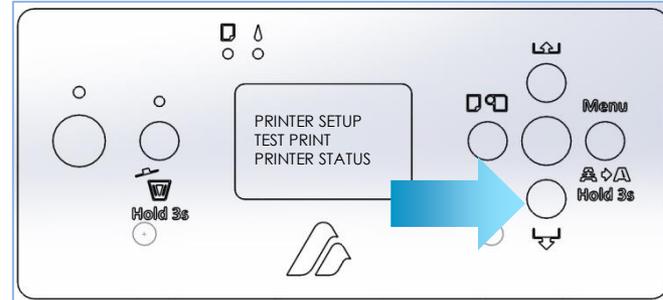
1

Once the printer says **“READY”** press **“MENU”** button



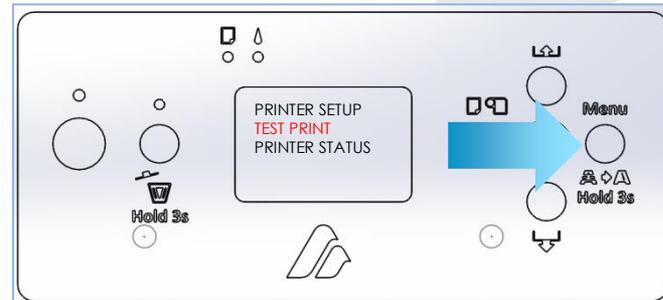
2

Scroll **“DOWN”** and select **“TEST PRINT”**



3

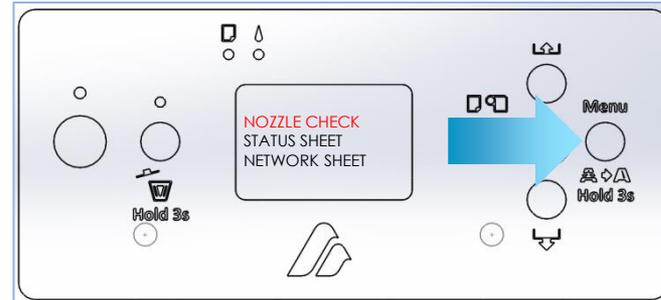
Enter the **“TEST PRINT”** options by pressing the **“MENU”** button



NOZZLE CHECK

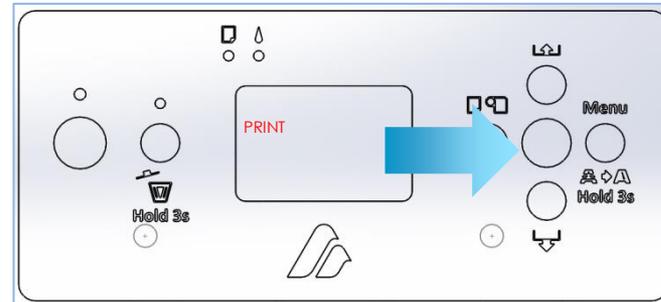
4

Select "**NOZZLE CHECK**" and press "**MENU**" button

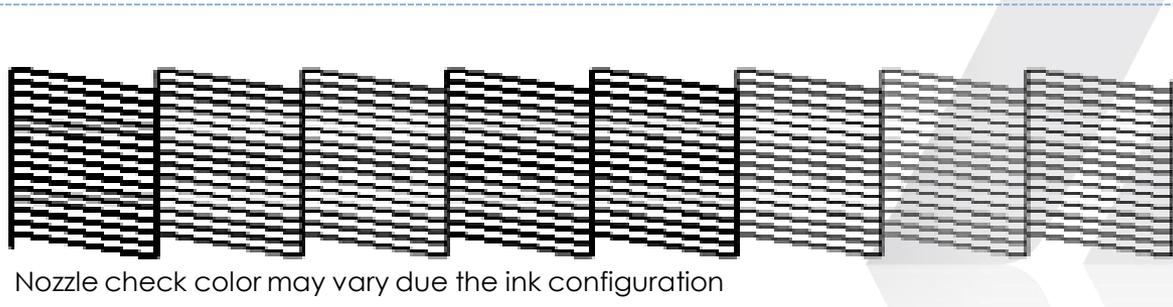


5

Press "**ENTER**" button to print nozzle check



When the Nozzle Check is complete inspect nozzle check sheet . Use a small flashlight to help see the print while it's still on the nozzle sheet If there are no/few gaps in the printed pattern you are good to proceed.

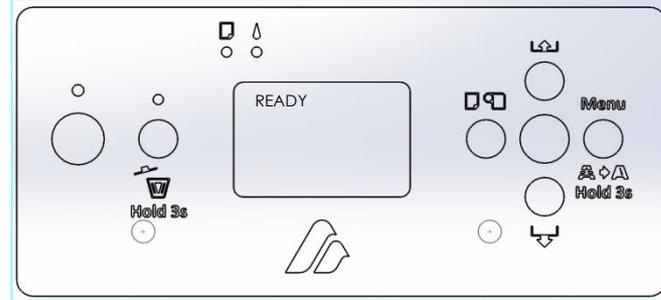


Nozzle check color may vary due the ink configuration

CLEANING CAPPING STATION & WIPER BLADE

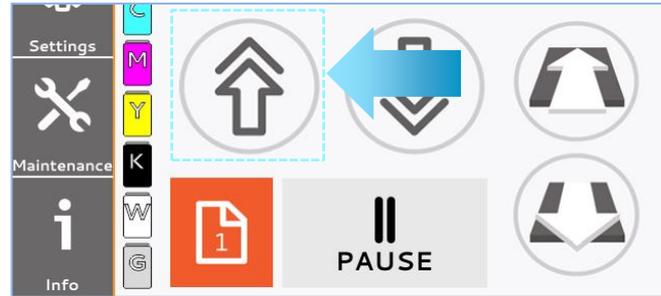
1

Printer must be in
"READY" status



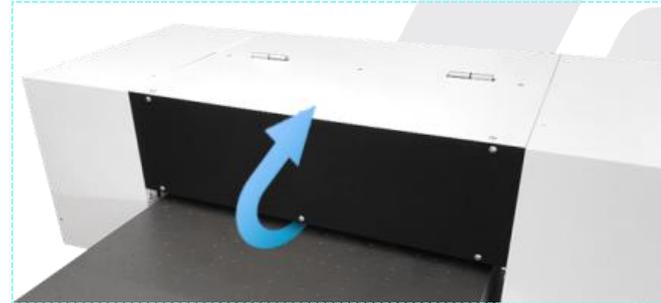
2

Rise the gantry UP



3

Open front cover
[most operations can
be done with just
opening cover]



CLEANING CAPPING STATION & WIPER BLADE

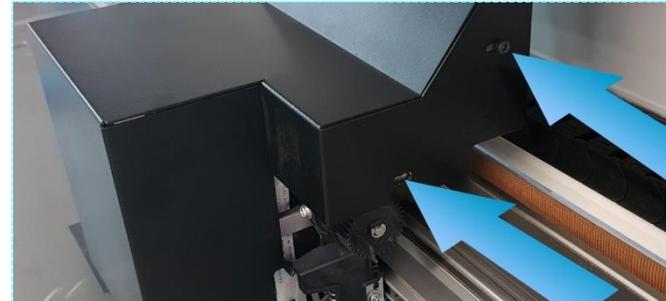
4

Manually unlock the carriage by pressing the blue lever



5

Slide the carriage to the left, away from the capping station, so it sits in the center of the print bed



6

Dip the foam swab into the cleaner **Do NOT** double dip. This will contaminate the entire bottle.



CLEANING CAPPING STATION & WIPER BLADE

7

Gently clean the rubber edges of the Capping Station



8

Dip a new, clean swab in the Multipurpose Cleaner and rub the wiper clean




CAUTION

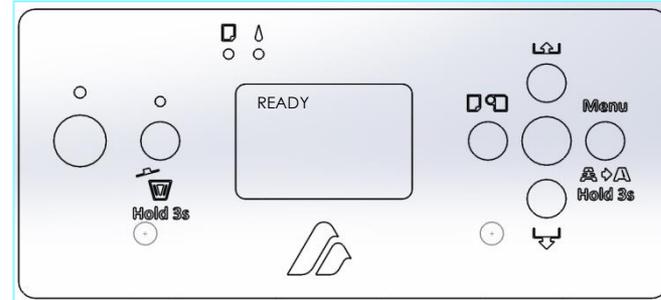
When you finish cleaning procedure, move the carriage all the way back to the right and close the cover

Remove all tools, cleaners, and other items from the print bed

CLEANING UV/LED LIGHT

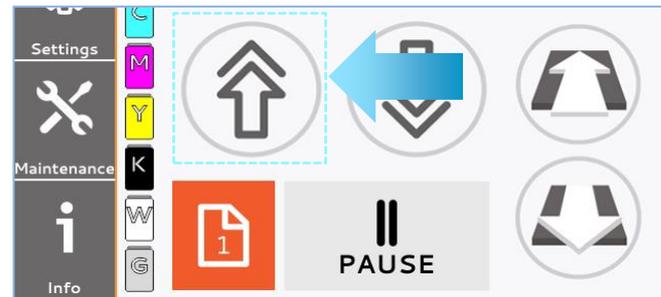
1

Printer must be in
"READY" status



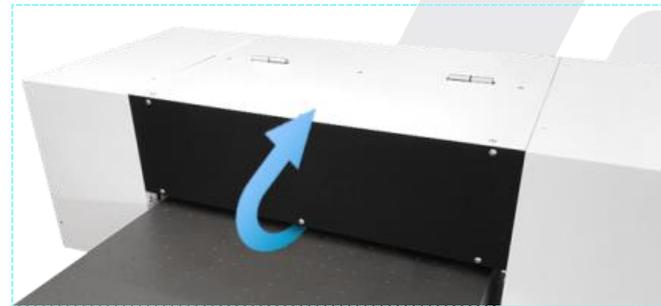
2

Rise the gantry UP



3

Open front cover
[most operations can
be done with just
opening cover]



CLEANING UV/LED LIGHT

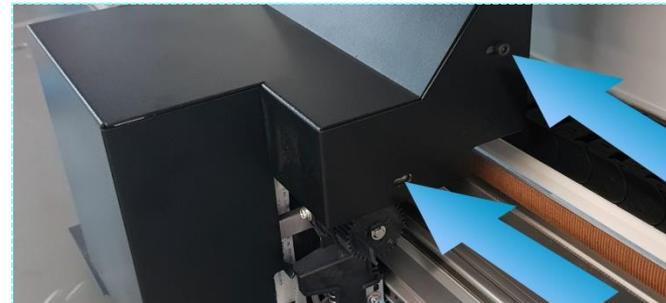
4

Manually unlock the carriage by pressing the blue lever



5

Slide the carriage to the left, away from the capping station, so it sits in the center of the print bed



6

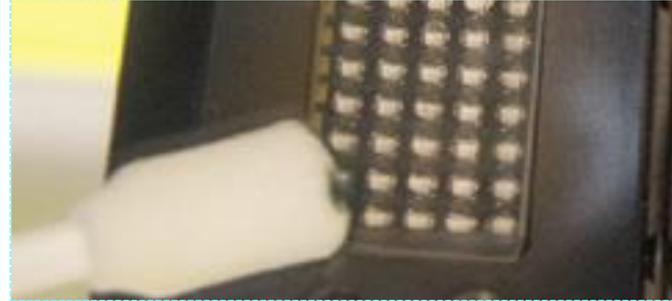
Dip the foam swab into the cleaner **Do NOT** double dip. This will contaminate the entire bottle.



CLEANING UV/LED LIGHT

7

Gently clean the
UV/LED light lens



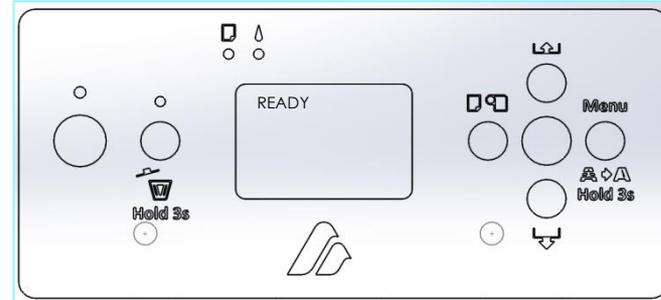
When you finish cleaning procedure, move the carriage all the way back to the right and close the cover

Remove all tools, cleaners, and other items from the print bed

CLEANING LINEAR ENCODER

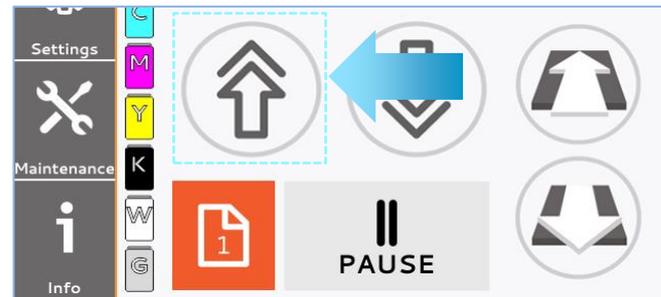
1

Printer must be in
"READY" status



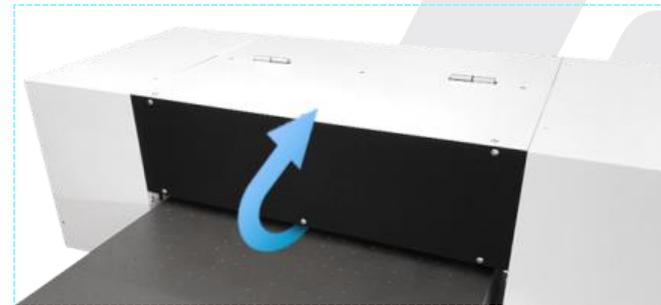
2

Rise the gantry UP



3

Open front cover
[most operations can
be done with just
opening cover]



CLEANING LINEAR ENCODER

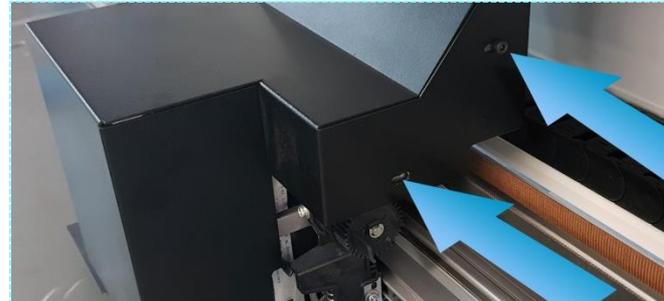
4

Manually unlock the carriage by pressing the blue lever



5

Slide the carriage to the left, away from the capping station, so it sits in the center of the print bed



6

Dip the foam swab into the cleaner **Do NOT** double dip. This will contaminate the entire bottle.



CLEANING LINEAR ENCODER

7

Gently clean Linear encoder tape from both sides [move carriage accordingly in order to clean whole tape]



When you finish cleaning procedure, move the carriage all the way back to the right and close the cover

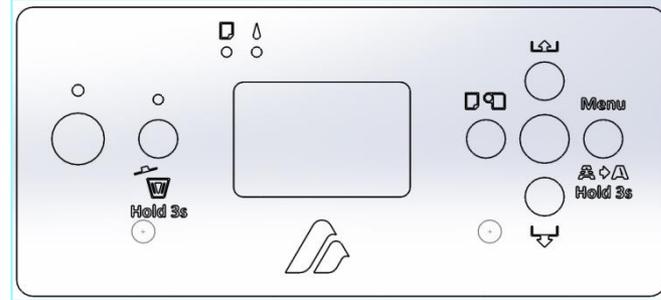
Remove all tools, cleaners, and other items from the print bed

REPLACE CAPPING UNIT

REMOVING CAPPING UNIT

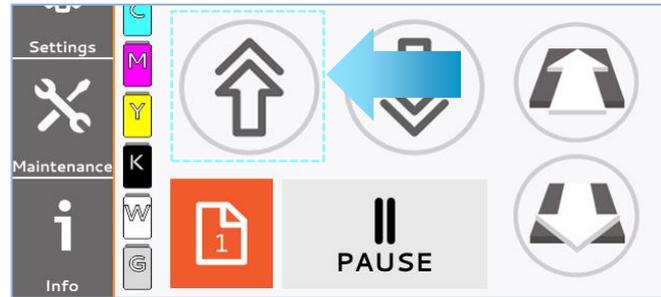
1

Printer must be in
"OFF" status



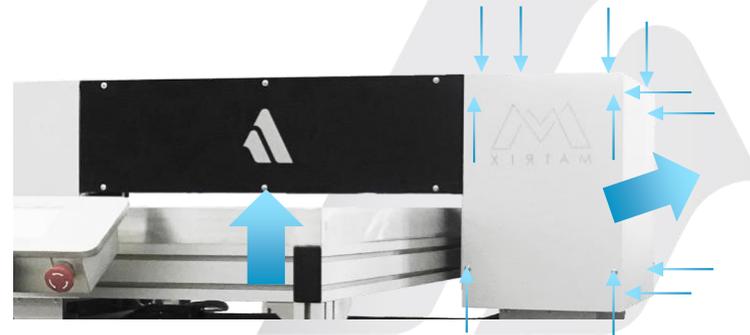
2

Rise the gantry UP



3

Open front cover
and remove side right
cover for easy acces.



REPLACE CAPPING UNIT

REMOVING CAPPING UNIT

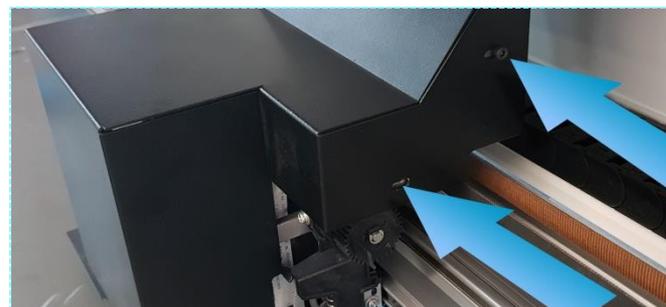
4

Manually unlock the carriage by pressing the blue lever



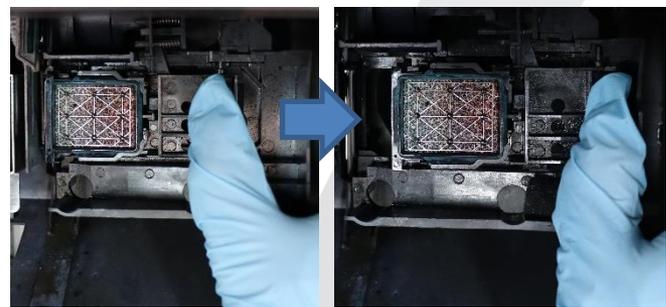
5

Slide the carriage to the left, away from the capping station, so it sits in the center of the print bed



6

Move the capping station from left to right with your finger



REPLACE CAPPING UNIT

REMOVING CAPPING UNIT

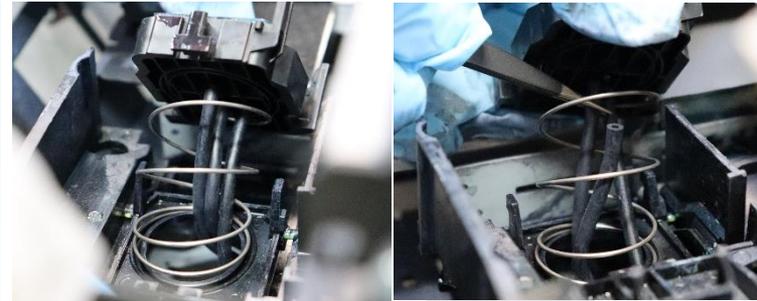
7

Use your the finger to press capping down(right side), and pull the back side up(Left side)to free capping from pump station.



8

After relasing the capping from the pump assy use tweezers to remove the tubes from the capping.



9

Now the capping is out, before installing the new capping please note/mark the corresponding tube order from the old one.

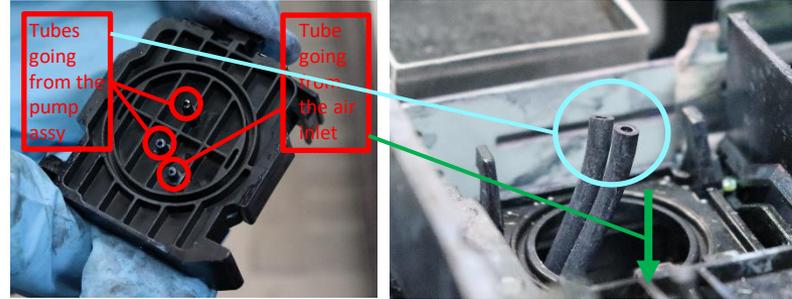


REPLACE CAPPING UNIT

INSTALLING CAPPING UNIT

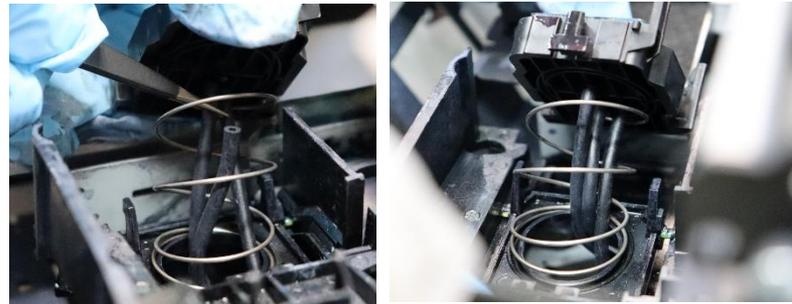
1

Take the new capping and check corresponding tube order. Usually the air inlet tube goes down in pump and the tubes from the pump stay up.



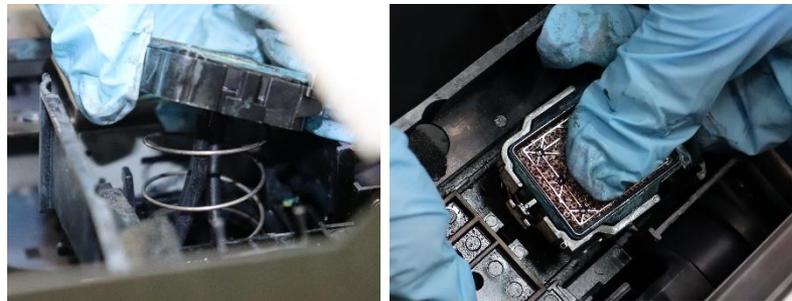
2

Insert the spring in the gap between capping and pump assy and connect the tubes with tweezers.



3

Press the capping down evenly, so the spring fits in the gap, and the tubes don't get bended.

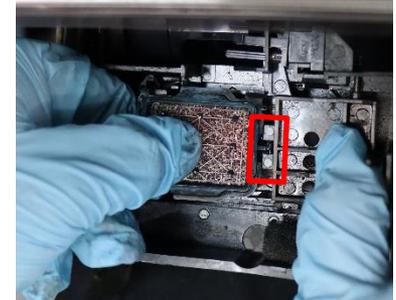
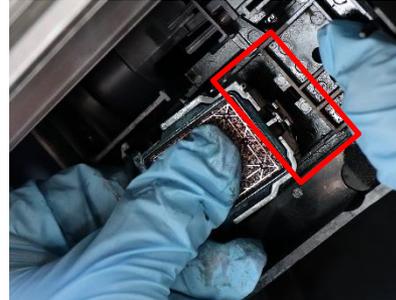


REPLACE CAPPING UNIT

INSTALLING CAPPING UNIT

4

Move the capping station to the right. Press the right side of capping under the plastic holder and then press the left side down until it slides on the back holders



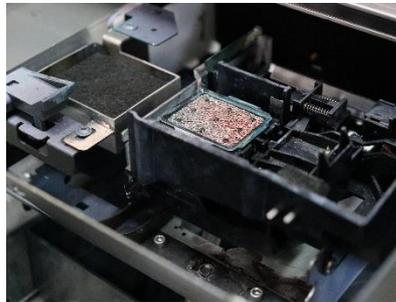
5

When the back side slides in proper position, capping station should stay like this by it self. Release the capping station.



6

Move the carriage back from left to right to the parking position. Toward the pump and cap assy.



REPLACE CAPPING UNIT

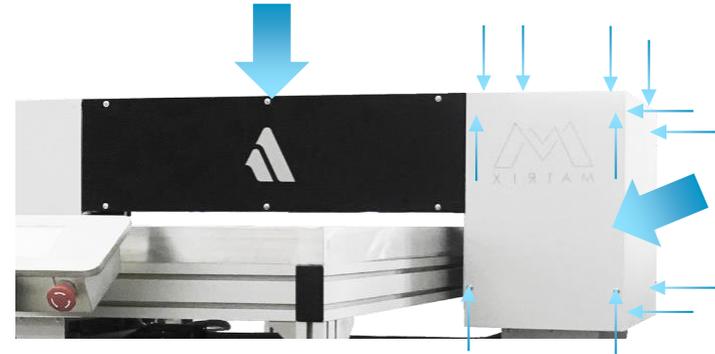
INSTALLING CAPPING UNIT

7

Put back the right side cover and close the top cover.

8

You can now turn on the machine and start the regular procedure.



EMPTY INK WASTE BOTTLE

1

Message "Waste tank is full please empty the bottle to proceed" will appear when waste tank is full



Waste tank is full. Please empty the bottle to proceed.

2

Locate the waste tank



3

Disconnect sensor from bottle



EMPTY INK WASTE BOTTLE

4

Pull the bottle out of the slot and gently rotate to disconnect from lead



5

Empty the bottle according to the regulations of the state

6

Connect the lead back to bottle, install the bottle into its slot, connect the sensor



REPLACE PUMP ASSEMBLY

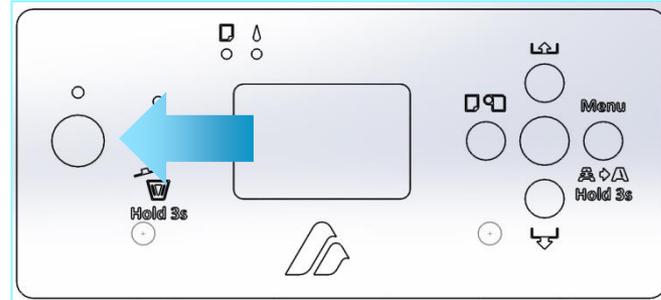
1

Pump assembly can be replaced by official azon technical staff Refer to technical manual for replacement In case off any questions please contact us on support@azonprinter.com

REPLACE THE WIPER BLADE

1

Printer must be in OFF



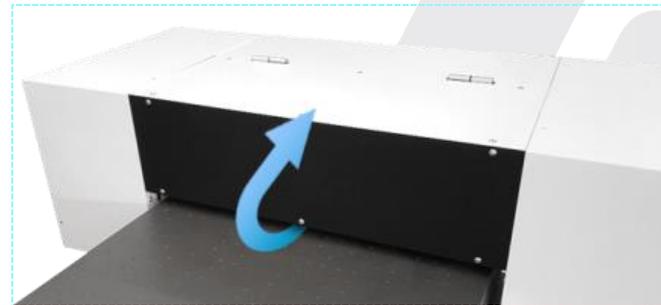
2

Rise the gantry UP



3

Open front cover
[most operations can
be done with just
opening cover]



REPLACE THE WIPER BLADE

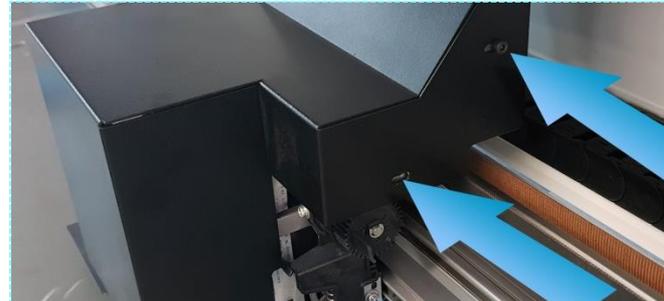
4

Manually unlock the carriage by pressing the blue lever



5

Slide the carriage to the left, away from the capping station, so it sits in the center of the print bed



6

Locate the Wiper Blade. Using the tweezers, pull up on the corner nearest you until you feel it unhook on that side



REPLACE THE WIPER BLADE

7

Repeat the process on the other corner.
Note the way the wiper is positioned as you remove it, so that you can place the new wiper back in the same direction.

8

Insert the new wiper by pushing it down into its slot until you feel it hook into place. To be sure it is hooked, give it a gentle pull straight up to make sure it stays in place



!
CAUTION

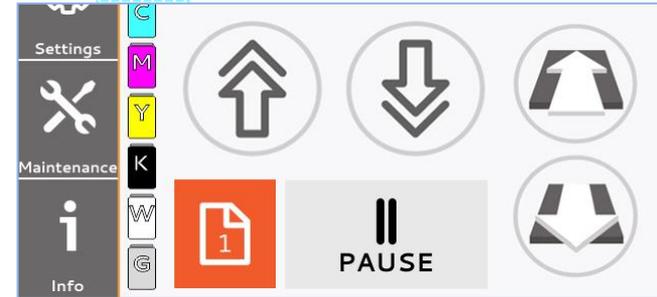
When you finish cleaning procedure, move the carriage all the way back to the right and close the cover

Remove all tools, cleaners, and other items from the print bed

FILL INK TANKS

1

On LCD screen tank will start to blink when its time to refill the ink



2

Open the tank which is indicated to be low on ink and pour new ink

WARNING

Never, under any circumstances, use anything other than the specified type of ink or cleaning liquid. Non genuine azon ink or cleaning fluid may lead to machine malfunction and loss of warranty.

IMPORTANT

Before pouring white ink into printer shake it back and forth horizontally for about 1 minute each. Shake white ink only, do not shake colors or gloss



DAMPER REPLACEMENT

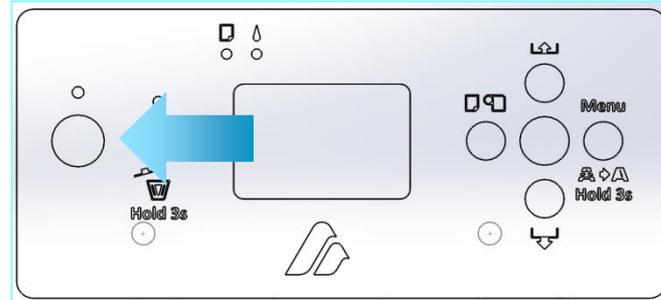
1

Dampers can be replaced by official azon technical staff Refer to technical manual for replacement In case off any questions please contact us on support@azonprinter.com

RECIRC PUMP CHANNEL REPLACEMENT

1

Printer must be in OFF



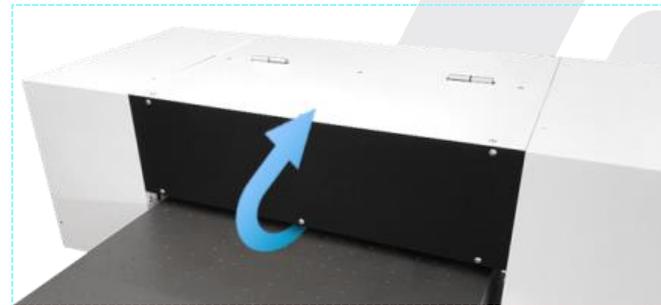
2

Rise the gantry UP



3

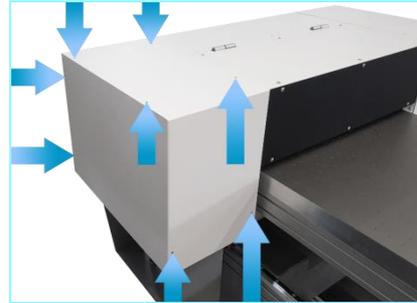
Open front cover [This operation will require left cover removed]



RECIRC PUMP CHANNEL REPLACEMENT

4

Remove Left side cover [Refer to technical manual for instruction how to]



5

Locate recirc pump and tubes [pump have to channels one is connected to bottle and black ink tube, other channel should be disconnected]



6

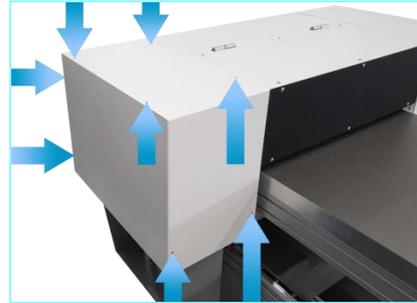
Remove zip ties from connections :
-bottle needle <-> active pump channel
-black joint <-> active pump channel



RECIRC PUMP CHANNEL REPLACEMENT

7

Remove Left side cover [Refer to technical manual for instruction how to]



8

Locate recirc pump and tubes [pump have to channels one is connected to bottle and black ink tube, other channel should be disconnected]



9

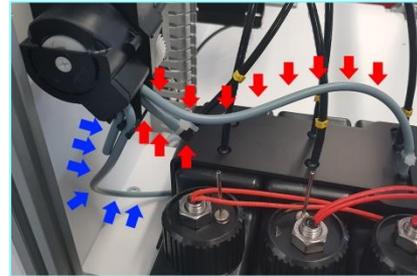
Remove zip ties from connections :
-bottle needle <-> active pump channel
-black joint <-> active pump channel



RECIRC PUMP CHANNEL REPLACEMENT

10

Disconnect active channel from recirculation pump and connect inactive channel on bottle needle and black tube



WARNING

Do not swap channels , long tube from inactive channel need to be replaced with long tube of active channel , short tube from inactive channel need to be replaced with short tube of active channel

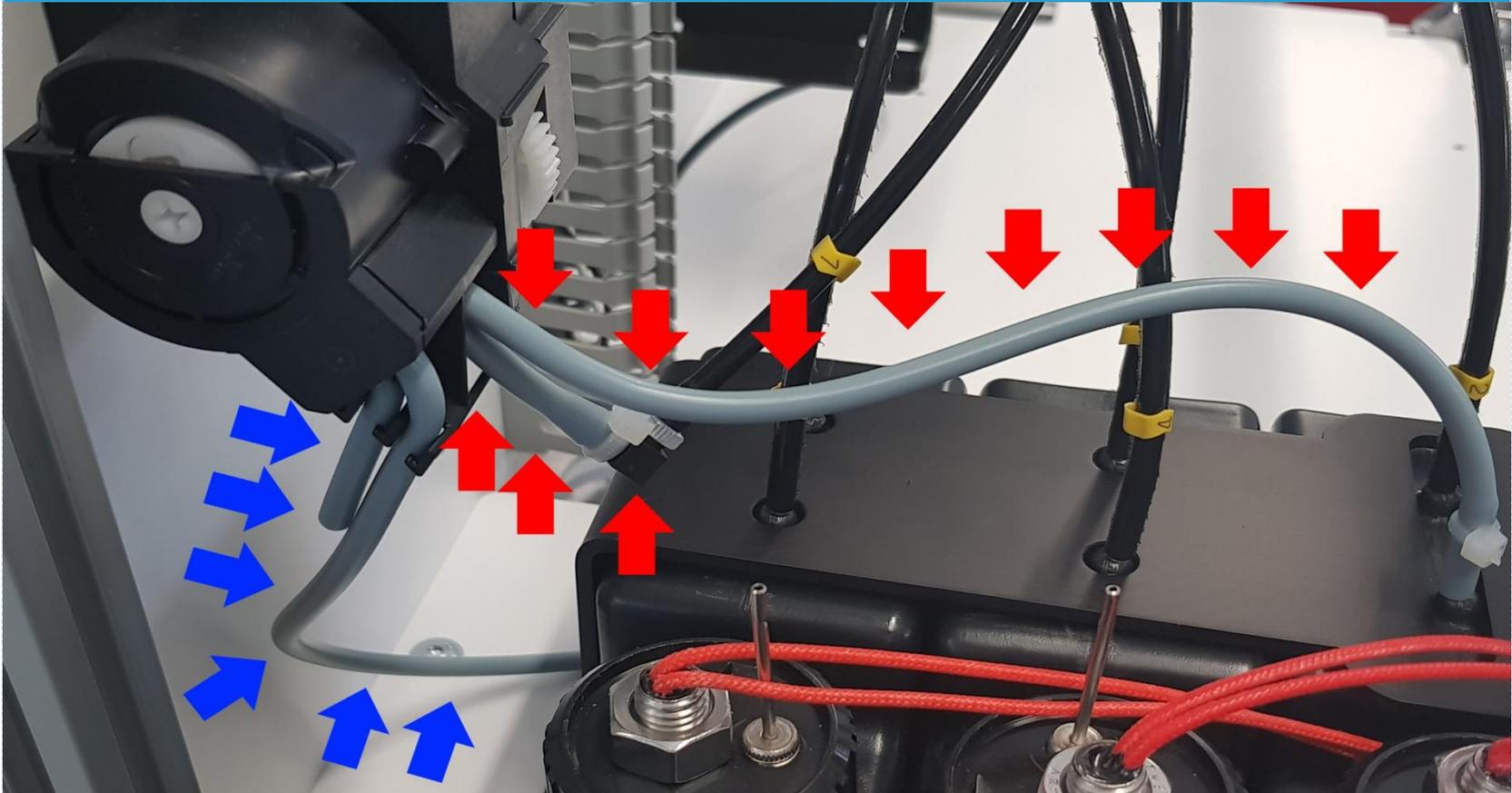
RECIRC PUMP CHANNEL REPLACEMENT

SKETCH

Blue Arrows = Inactive Channel

Red Arrows = Active channel

After 180 days channels need to be swapped in order to maintain optimum results for white ink recirculation



RECIRC PUMP REPLACEMENT

1

Recirc pump can be replaced by official azon technical staff Refer to technical manual for replacement In case off any questions please contact us on support@azonprinter.com

IMPORTANT

Life expectancy of the recirc pump is 1 year / 6 months per channel
It is strongly advised to replace channels every 6 months and whole pump after 1 year