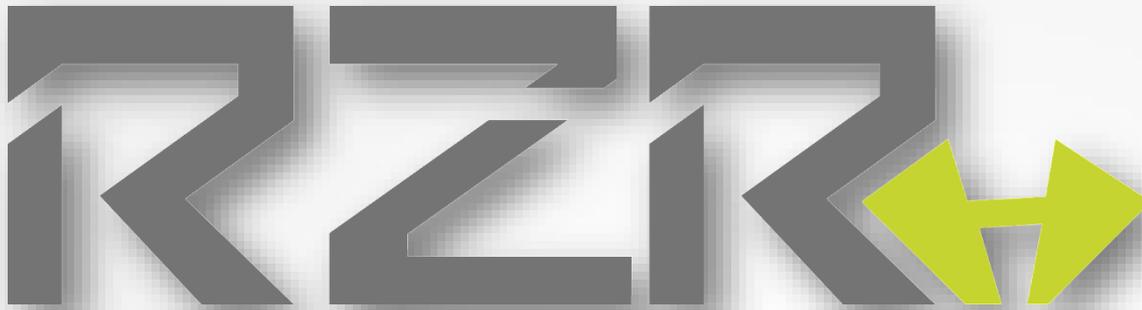


Preventative  
Maintenance



#### **NOTICES**

The information in this document is subject to change without notice. NO WARRANTY OF ANY KIND IS MADE WITH REGARD TO THIS MATERIAL, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

No liability is assumed for errors contained herein or for incidental damages in connection with the furnishing, performance or use of this material. This document contains proprietary information which is protected by copyright. All rights are reserved. No part of this document may be photocopied, reproduced or translated into another language without prior written consent.

#### **TECHNICAL SUPPORT**

If you need technical assistance, you can reach a Digital Print Specialist at +385 1 4618-003 or at [azonprinter.com](http://azonprinter.com)



# Table of Contents

## Pages You Can't Function Without

4	<b>To Be Safe</b>
5	Preventative Maintenance Schedule
7	<b>Cleaning the Print Head</b>
10	Performing Nozzle Check
15	<b>Head Cleaning After a Nozzle Check</b>
16	Cleaning the Capping Station & Wiper Blade
20	<b>Cleaning the UV/LED Light Lens</b>
22	Cleaning the Height Sensor Lens
24	<b>Cleaning the Linear Encoder</b>
27	Replace the Purge Tray Pad
29	<b>Replace the Ink Waste Bottle</b>
32	Replace the Capping Station
36	<b>Replace the Wiper Blade</b>
40	Filling Ink Bottles
43	<b>Waste Pad Reset</b>
44	AOD
44	<b>To Save Money</b>

# To Be Safe

- Keep all inks, cleaning fluids and primer liquids out of the reach of children.
- Use only approved cleaning agents and then only for the purposes specified in this guide.
- Use only genuine Azon UV-LED inks.
- Keep inks in a cool, dark and dry location.
- This printer produces potentially harmful UV light. Protect eyes and skin from exposure.
- Avoid physical contact with the printer's table and print head while the printer is in operation.
- Avoid dropping items or spilling liquids in or on the printer.
- Keep hair, jewelry or loose clothing away from the moving parts of the printer.
- Lifting this printer by hand requires a minimum of 4 people.
- Do not attempt to repair this machine without prior Azon authorization, unless specified in this guide, only qualified service personnel should attempt any disassembly, repair or access to internal components. If you need to make mechanical adjustments, turn off your printer and disconnect it from all power and data sources.
- Safety glasses and gloves should be used whenever manually cleaning the print head.
- Wear protective gear whenever there is exposure to the inks or UV light.

# Preventative Maintenance Schedule

## 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.

### Why?

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.



# Preventative Maintenance Schedule

## Maintenance Check List

<b>Tasks</b>	<b>Daily</b>	<b>Weekly</b>	<b>Monthly</b>	<b>90 days</b>	<b>As Needed</b>	<b>Ref Page</b>
Clean Print Head		X				7
Nozzle Check	X					10
Auto Clean					X	15
Clean Capping Station & Wiper	X					16
Clean UV/LED lens			X			20
Clean Linear Encoder		X				24
Clean Height Sensor Lens					X	22
Replace Purge Tray Pad					X	27
Replace Ink Waste Bottle		X				29
Fill ink Bottle					x	40
Replace the Capping Station				x		32
Replace the Wiper Blade				x		36
Waste Pad Reset		X				44
AOD					x	45

# Cleaning the Print Head

**Why:** Saves time and money by helping prevent nozzles from clogging and providing you better print results each day.

**Frequency:** Weekly, as part of complete shut down

**You will need :**  
(all provided)

- 1** Safety Glasses
- 2** Nitrile Gloves
- 3** Foam Swabs
- 4** Print Head Cleaning Fluid



# Cleaning the Print Head

## Step 1

In Setting menu press and hold Clean capping station after command is activated printer will rise print head and unlock carriage

## Step 2

Wait until following image appear on screen:  
(Gantry will automatically move up)

Its now safe to manually move carriage back and forth

## Step 3

Slide the carriage to the center of the printer

## Step 4

Dip the foam swab in to print head cleaning liquid

### NOTES:

Do not double dip , this will contaminate the entire bottle

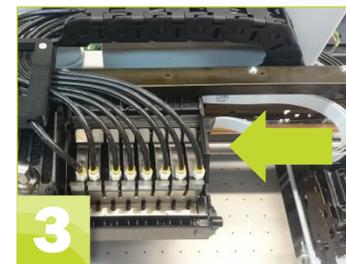
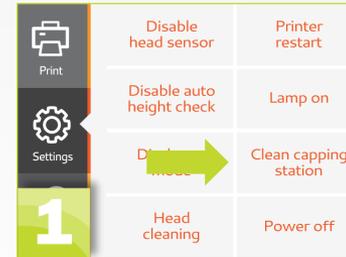
Once the swab is completely dirty dispose of it properly

Only use lint-free cleaning foam swab provided form Azonprinter company

If you use cotton swab or something similar the cotton fibers will clog the print head

## Step 5

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



# Cleaning the Print Head

## Step 6

Tap the button on the display Press when finished cleaning

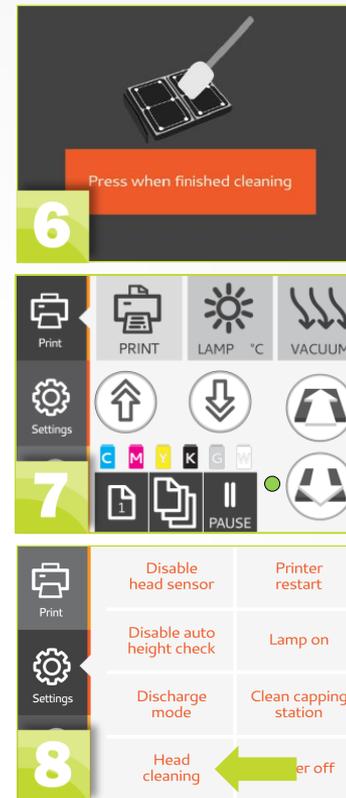
**NOTES:** If needed clean the capping station and wiper blade before taping the button Press when finished cleaning Remove all tools, cleaners, and other items from the print bed

## Step 7

Wait until printer comes to ready , solid green light marked with blue arrow will indicate that printer is ready/idle

## Step 8

On touch screen tap settings icon (marked with red arrow) press and hold Head Cleaning button for about 1-2 sec



# Performing a Nozzle Check

**Why:** This will allow you to check if any of the print nozzles are clogged, to ensure optimal quality print.

**NOTES:**

When executing a nozzle check, ignore the "zero point" sticker on the print table and position as instructed here. If the test sheet is positioned at the "zero point," the test print will rub off on the surface of your print table. ONLY ignore "zero point" when doing a nozzle check.

**Frequency:** Daily, before you begin printing your first job, on the end of the day.

**You will need :**

(all provided)

- 1** Safety Glasses
- 2** Nitrile Gloves
- 3** Nozzle Check Sheet



# Performing a Nozzle Check

## Step 1

This corner is the zero point and will be set by your technician during the initial install

## Step 2

Turn the printer ON (See page XX of the Getting Started Guide for step-by-step instructions)

## Step 3

Check for the solid green light that indicates the printer is ready to start the Nozzle Check

## Step 4

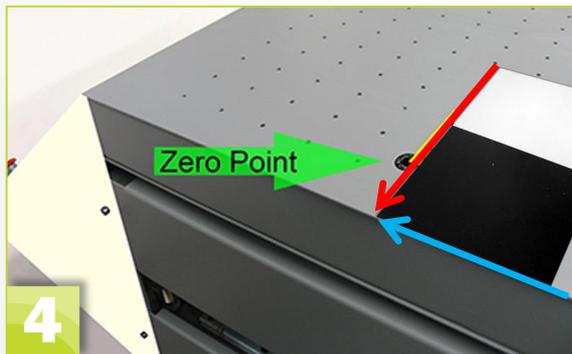
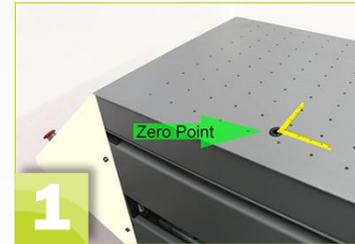
Position nozzle check sheet :

- Vertical (red arrow) with the edge of the zero point marker
- Horizontal (blue arrow) with edge of the table

Image on the right can be used as reference

NOTE:

- If the nozzle check sheet is not positioned correctly the nozzle check will print on the surface of your print table.



# Performing a Nozzle Check

## Step 5

Push (hold for 1-2sec) the Auto Gantry DOWN button.  
The gantry will lower and stop automatically.  
If the print head doesn't move, it means it's already all the way down.

## Step 6

When the gantry stops, select the Settings icon, select Discharge to turn it OFF

## Step 7

Press the "PRINT MENU" button  
Press the Print button  
Stand clear, the gantry will move forward towards the test sheet to position to print  
When ready the green light will be solid on the Print Menu

## Step 8

Open Azon production manager. This program was installed by your technician.



# Performing a Nozzle Check

## Step 9

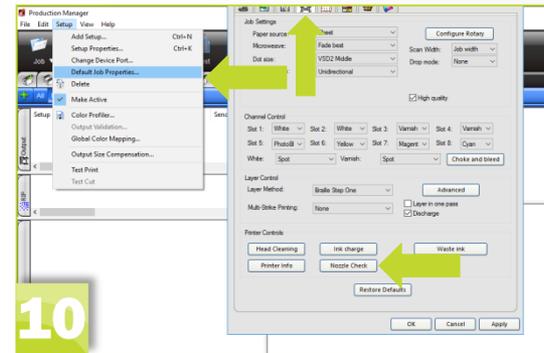
Select printer queue .

[in cases of multiple machines its important to select queue]



## Step 10

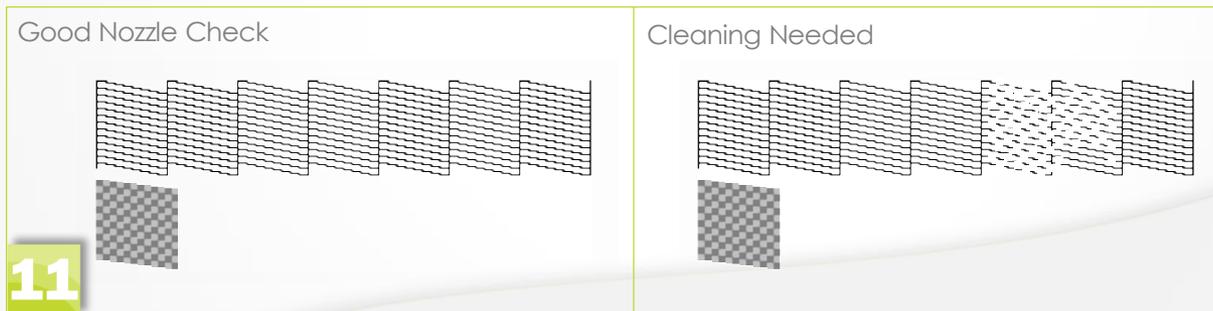
Click on default job properties and go to tab number 4 Initiate nozzle check



## Step 11

When the Nozzle Check is complete carefully inspect the sheet. Remember that the ink is NOT cured so it will smudge if you touch it. If there are no/few gaps in the printed pattern you are good to proceed.

***(If there are excessive gaps, see the next page)***



# Performing a Nozzle Check

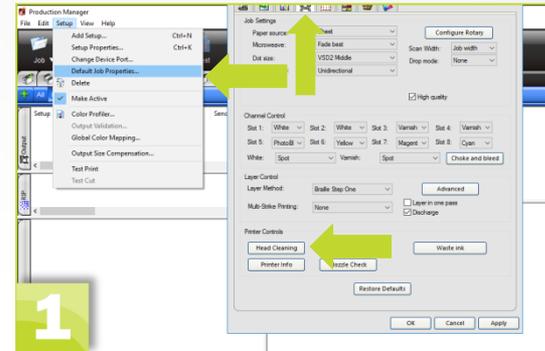
## Nozzle Check - If Excessive Gaps

### Step 1

Click Head Cleaning on your computer screen  
This will start an automatic cleaning of the print  
head which will pull more ink into the lines

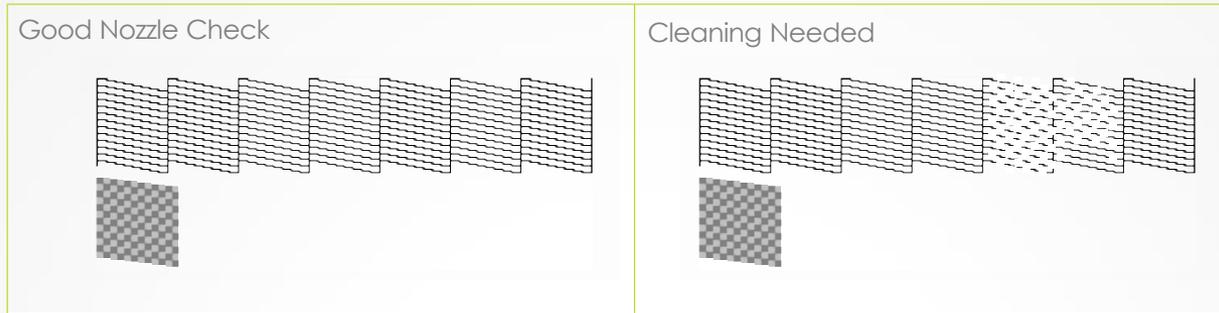
### Step 2

When the auto cleaning stops repeat  
another Nozzle Check

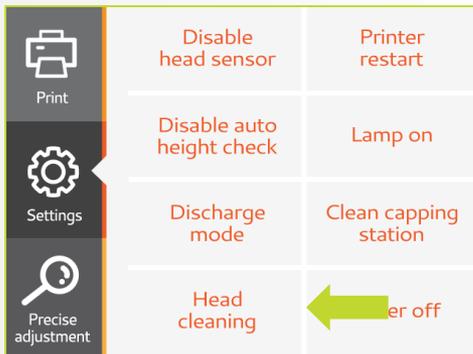


# Head Cleaning After a Nozzle Check

In some cases, the Nozzle Check results in many gaps on the nozzle check sheet. Follow the below instructions to conduct print head cleaning

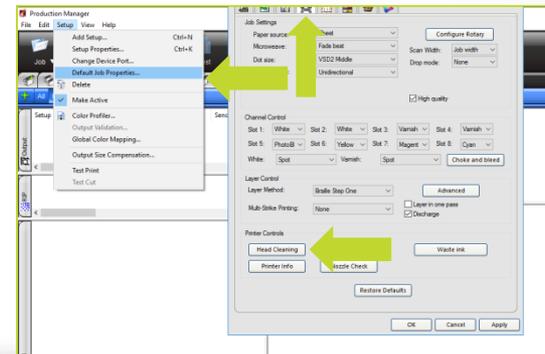


Tap Head Cleaning in settings menu on LCD screen  
This will start an automatic print head cleaning to help clear any clogs in the nozzles when the auto cleaning stops run another Nozzle Check



# OR

Go to RIP software select printer queue go to default job properties and switch to tab number 4 and click head cleaning this will start an automatic print head cleaning to help clear any clogs in the nozzles when the auto cleaning stops run another Nozzle Check



# Cleaning the Capping Station & Wiper Blade

**Why:** Ink build-up around the capping station prevents the print head from forming a tight seal while at rest. This can lead to clogged nozzles.

**Frequency:** Once a day, after a daily Print Head Cleaning

**NOTES:** If you just finished cleaning the Print Head and the carriage is already unlocked, start with Step x by dipping the foam swab into the Capping Station Cleaner. If it is not unlocked, begin with Step 1.

## You will need :

(all provided)

- 1 Safety Glasses
- 2 Nitrile Gloves
- 3 Foam Swabs
- 4 Azon Cleaning Fluid



# Cleaning the Capping Station & Wiper Blade

## Step 1

In Setting menu press and hold Clean capping station after command is activated printer will rise print head and unlock carriage

## Step 2

Wait until following image appear on screen:  
(Gantry will automatically move up)  
Its now safe to manually move carriage back and forth

## Step 3

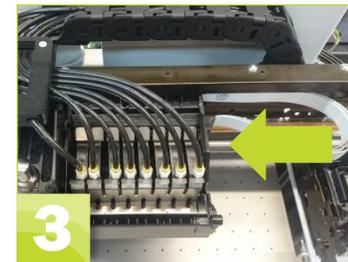
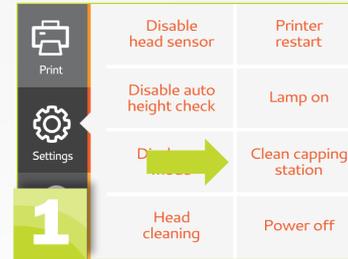
Slide the carriage to the left so that you can access the Capping Station

## Step 4

Dip the foam swab in to cleaning liquid

### NOTES:

Do not double dip , this will contaminate the entire bottle.  
Once the swab is completely dirty dispose of it properly.



# Cleaning the Capping Station & Wiper Blade

## Step 5

Gently clean the rubber edges of the Capping Station

## Step 6

Push and hold capping holder asy in the direction which is pointed by green arrow

## Step 7

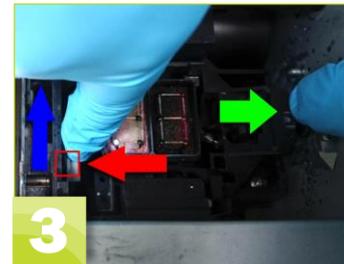
While holding capping holder asy with one hand , locate and push the wiper pin in the direction of the blue arrow with other.

## Step 8

Dip the foam swab in to cleaning liquid

### NOTES:

Do not double dip , this will contaminate the entire bottle.  
Once the swab is completely dirty dispose of it properly.



# Cleaning the Capping Station & Wiper Blade

---

## Step 9

Gently clean the wiper with cleaning stick be sure that all ink remains are gone. Once done put the wiper back in original position via vice versa process.

Vice versa process:

- Push and hold capping asy;
- Locate and push wiper pin



# Cleaning the UV/LED Light Lens

**Why:** Ink will build up and cure on the UV/LED light lens. Keeping it clean will ensure that your printer emits optimal light for more even, faster curing.

**Frequency:** Once a month to help optimize efficiencies, you can also clean the UV/LED light while conducting the Print Head & Capping Station cleanings. (the gantry will already be raised.) If the gantry is already raised, start with Step 3 by placing a mirror under the carriage. If not, begin with Step 1 below.

**To Be Safe:** you will be instructed to switch the Main Power off on the printer at some point during this process.

## You will need :

(all provided)

- 1 Safety Glasses
- 2 Nitrile Gloves
- 3 Foam Swabs
- 4 Azon Cleaning Fluid



# Cleaning the UV/LED Light Lens

## Step 1

Press and hold the Gantry Up icon for 2 seconds. The gantry will raise up (indicated by the solid green light) and stop automatically. If the gantry does not move, it is already completely raised.

## Step 2

Flip the Main Power switch on the back of the printer to OFF. This will prevent anyone from accidentally bumping the touch screen and causing the printer to move while you are working on it.

## Step 3

Dip the foam swab in to cleaning liquid.

### NOTES:

Do not double dip, this will contaminate the entire bottle. Once the swab is completely dirty, dispose of it properly.

## Step 4

Gently clean the UV/LED light lens.

## Step 5

Close the printer cover, remove all tools, cleaners, and other items from the print bed. Flip the Main Power switch back ON.

- The carriage will move and reset itself. This will take about 90 seconds.
- If you want to lower the gantry back down, just press and hold the down arrow icon on the Main Menu for 2 seconds and it will lower and stop on its own.



# Cleaning the Height Sensor Lens

**Why:** Ink will build up and cure on the Height Sensor Lens, interfering with its ability to adjust to the proper height.

**Frequency:** As needed

**You will need :**  
(all provided)

- 1** Safety Glasses
- 2** Nitrile Gloves
- 3** Foam Swabs
- 4** Azon Cleaning Fluid



# Cleaning the Height Sensor Lens

## Step 1

Open the Printer Cover, and locate the Height Sensor Lens.

## Step 2

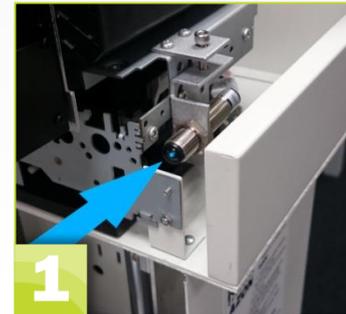
Dip the foam swab in to cleaning liquid

### NOTES:

Do not double dip , this will contaminate the entire bottle.  
Once the swab is completely dirty dispose of it properly

## Step 3

Gently clean the Height Sensor Lens.



# Cleaning the Linear Encoder

**NOTE:** If you are performing this at the same time as a Capping Station or Print Head Cleaning to save time (meaning that the carriage would already be unlocked), skip to Step 3. If it is not unlocked, proceed to step 1.

Frequency: Weekly

**Why:** Dirt build-up on the ribbon will affect the Optical Sensor's ability to read the ribbon and can result in banding and misting.

## You will need :

(all provided)

- 1 Safety Glasses
- 2 Nitrile Gloves
- 3 Foam Swabs
- 4 Azon Cleaning Fluid



# Cleaning the Linear Encoder

## Step 1

In Setting menu press and hold Clean capping station after command is activated printer will rise print head and unlock carriage

## Step 2

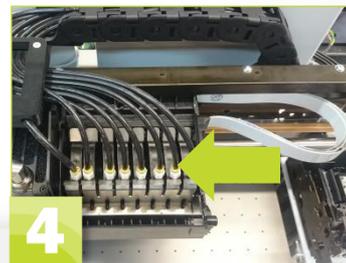
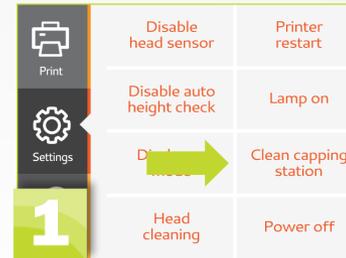
Wait until following image appear on screen:  
(Gantry will automatically move up)  
Its now safe to manually move carriage back and forth

## Step 3

Open the Printer Cover, and locate the Optical Sensor Ribbon

## Step 4

Slide the Carriage to the left so that you can clean the right half of the linear encoder



# Cleaning the Linear Encoder

## Step 5

Dip the foam swab in to cleaning liquid

### NOTES:

Do not double dip , this will contaminate the entire bottle.  
Once the swab is completely dirty dispose of it properly

## Step 6

Gently clean the right half of the Linear Encoder on both sides

## Step 7

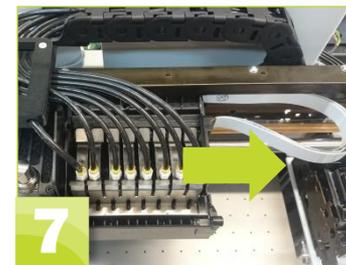
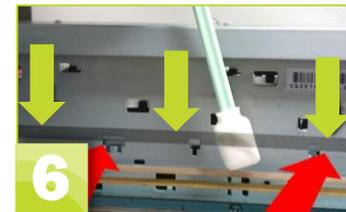
Push the Carriage all the way back to the right, and clean both sides of the left half of the Linear Encoder

## Step 8

Close the printer cover

## Step 9

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



# Replace the Purge Tray Pad

**Why:** Ink will build up, cure and eventually build up in the purge tray that it may begin to rub the print head

**Frequency:** As needed, when the ink builds up to about  $\frac{3}{4}$  of the way in the Purge Tray

You will need :

- 1 Safety Glasses
- 2 Nitrile Gloves
- 3 Foam Swabs
- 4 Azon Cleaning Fluid
- 5 Tweezers



# Replace the Purge Tray Pad

---

## Step 1

Open the Printer Cover and locate the Purge Tray

## Step 2

Carefully lift the Purge Pad out of the Purge Tray with the tweezers

**NOTE:** The pad may be difficult to pull out because of the cured ink. Be careful not to damage the tray

## Step 3

Place the Pad in a disposal bag and dispose of it properly (put in one of the disposable bags that was provided and place in the trash)

## Step 4

Place a new, clean Pad back in the Purge Tray

## Step 5

Close the printer cover



# Replace the Ink Waste Bottle

---

**Frequency:** Weekly, depending on how much you print. Your printer will prompt you when the ink waste bottle needs replaced.

## You will need :

(all provided)

**1** Safety Glasses

**2** Nitrile Gloves



# Replace the Ink Waste Bottle

When the Waste Bottle is full, this message will appear on your LCD screen

## Step 1

Carefully lift the Waste Bottle up, tilt it in towards the printer, then pull it out of the metal cover

Do not tilt it too far when you lift it out, as the ink may spill

## Step 2

Hold the lid with one hand, and rotate the bottle clockwise with the other hand



# Replace the Ink Waste Bottle

## NOTES

The Ink Hoses stay connected to the lid, so you will continue to reuse that same lid on each new waste bottle  
Be careful of any ink dripping from the hoses  
Be sure not to pull any of the hoses out of the lid

### Step 3

Place the lid from the new bottle onto the used Waste Bottle so that it is sealed

### Step 4

Place the Waste Bottle in a disposal bag and then into a container for hazardous liquids , for proper disposal

### Step 5

Put the lid (containing the hoses) on the new Waste Bottle. (Hold the lid, spin the bottle counterclockwise)

### Step 6

Place the Waste Bottle back inside the printer, leaning the top of the bottle slightly in toward the printer and then pressing down in place



# Replace the Capping Station

**Why:** Over time the capping station gets worn. If it does not get replaced it will not seal tight and you will experience clogs in the print head

**Frequency:** ~ every 90 days

**NOTE:** The printer can be ON or OFF but not in motion when replacing a capping

You will need :

**1** Safety Glasses

**2** Nitrile Gloves

**3** Foam Swabs

**4** Azon Cleaning Fluid

**5** Tweezers

**6** Capping Station



# Replace the Capping Station

## Step 1

In Setting menu press and hold Clean capping station after command is activated printer will rise print head and unlock carriage

## Step 2

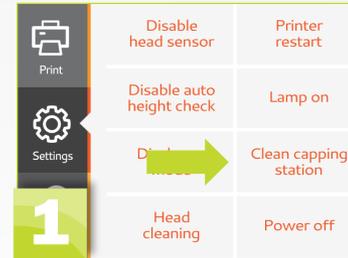
Wait until following image appear on screen:  
(Gantry will automatically move up)  
Its now safe to manually move carriage back and forth

## Step 3

Slide the carriage to the left so that you can access the Capping Station

## Step 4

Use a needle nose pliers to carefully remove the spring to the right of the capping station



# Replace the Capping Station

---

## Step 5

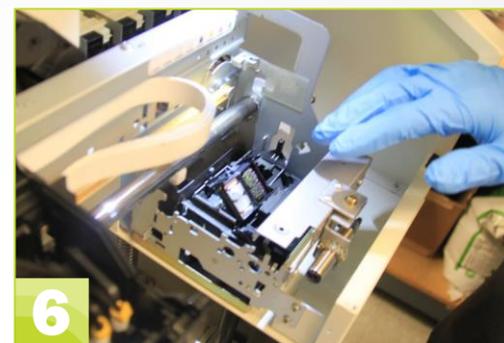
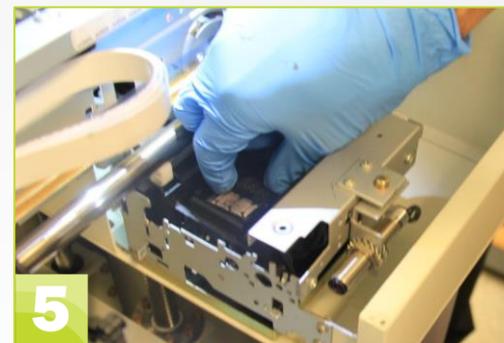
With your index finger, push down on the top edge of capping station so you can feel it tip and release

## Step 6

When the capping station is released it will stick up as shown in the picture. You can then lift it out

## Step 7

Underneath the capping station is a spring  
Tip the capping station to the side so that you can lift the spring out



# Replace the Capping Station

## Step 8

To ensure you get the correct hose reconnected to the correct hole, disconnect one hose at a time disconnect a hose, reconnect it immediately to the corresponding hole on the new capping station do this same process on the next 3 hoses until they are all reconnected to the new capping station

Capping Station



# Replace the Capping Station

## Step 9

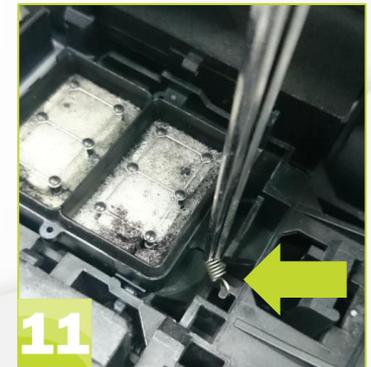
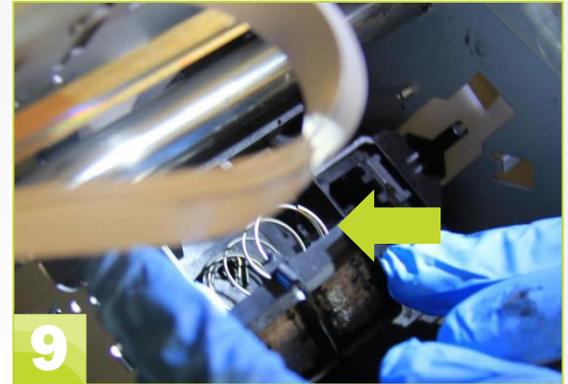
Once the new capping station has all 4 hoses connected to it, you need to seat the large spring back under the capping station

## Step 10

Using 2 hands push the capping station down back into place, hooking the edge nearest you first

## Step 11

Replace the small spring that hooks to the right of the capping station



# Replace the Wiper Blade

**Why:** The wiper blade periodically and automatically wipes excess ink off of the print head to help prevent drips and clogs. Over time the wiper will wear and warp and not clean the print head effectively.

**Frequency:** Approximately every 90 days

**NOTE:**

The wiper blade is located inside the pump and cap assembly next to the capping station. The wiper blade can be different colors, sometimes white, gray or black.

**1** Good Wiper

**2** Warped Wiper

**3** Worn Wiper



# Replace the Wiper Blade

You will need :

**1** Safety Glasses

**2** Nitrile Gloves

**3** Foam Swabs

**4** Azon Cleaning Fluid

**5** Tweezers

**6** Wiper



# Replace the Wiper Blade

## Step 1

In Setting menu press and hold Clean capping station after command is activated printer will rise print head and unlock carriage

## Step 2

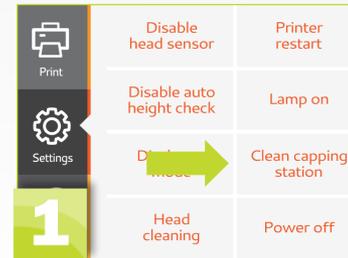
Wait until following image appear on screen:  
(Gantry will automatically move up)  
Its now safe to manually move carriage back and forth

## Step 3

Slide the carriage to the left so that you can access the Capping Station

## Step 4

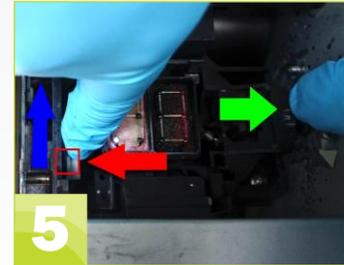
Push and hold capping holder asy in the direction which is pointed by green arrow



# Replace the Wiper Blade

## Step 5

While holding capping holder asy with one hand , locate and push the wiper pin in the direction of the blue arrow with other



## Step 6

With a tweezers, gently pull the wiper up until it comes out of the pump & cap assembly

Note the way the wiper is positioned when you remove it so that you can place the new wiper back in the same direction



## Step 7

Insert new wiper into wiper slot  
[its need to be in same direction as the old one ]



## Step 8

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

## Step 9

Close the printer cover

## Step 10

Click Press when finished cleaning button



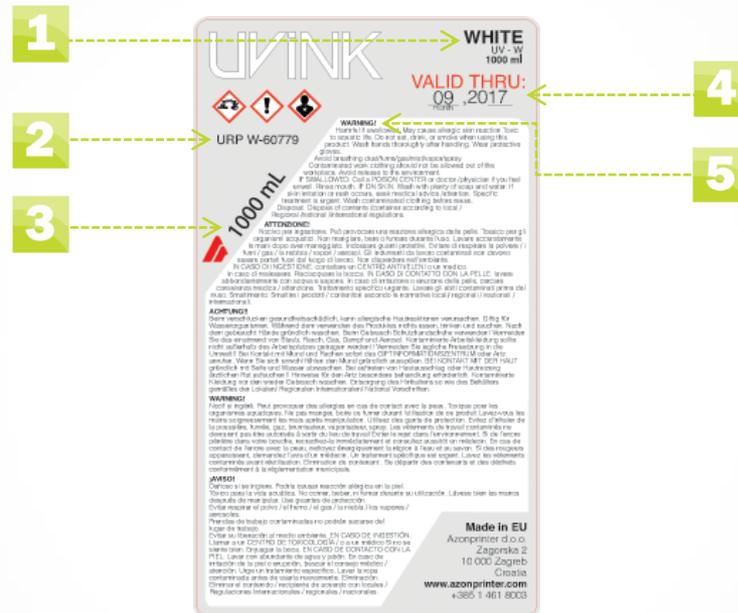
# Filling Ink Bottles

**Why:** If a printer ink bottle is empty printer will not print that color and likely not produce a print of expected quality  
Warning will be shown on LCD touch screen

**Frequency:** As needed

**NOTES:** The printer can be ON or OFF but not in motion when filling ink bottle. If replacing the white ink be sure to shake transport bottle for 1 minute before filling the printer bottle

- 1 Color Name
- 2 Batch Number
- 3 Volume
- 4 Expiration Date
- 5 Warning/Disposal



White Ink Bottle Label



White Ink Bottle

# Filling Ink Bottles

## Step 1

Open printer bottle which you want to fill with corresponding ink. [open one bottle at the time to prevent any UV exposure / dust or any other influence which may occur while bottle is open]

## Step 2

Open ink bottle, remove protective foil and pour ink from ink bottle to printer bottle [make sure to pour ink in correct printer bottle]

## Step 3

Close printer bottle  
[make sure to close the bottle all the way]



Shake only white ink inside transport bottles  
prior to pouring into printer bottle



Shake white ink inside printer bottles every  
day before starting machine

# Waste Pad Reset

## Step 1

Open the top back cover of the printer and plug in the USB cord to the printer and to your computer.

**[THERE ARE 2 USB CONNECTORS MAKE SURE TO CONNECT THE ONE ON MAINBOARD]**

## Step 2

Open Azon production manager. This program was installed by your technician.

## Step 3

Select printer queue .

[in cases of multiple machines its important to select queue]

## Step 4

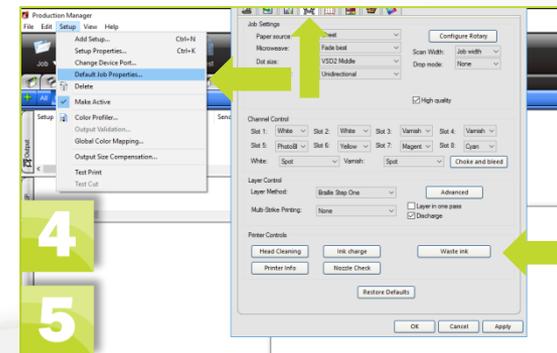
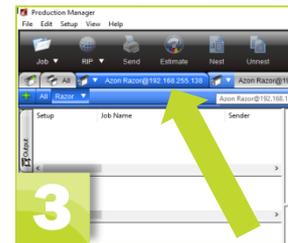
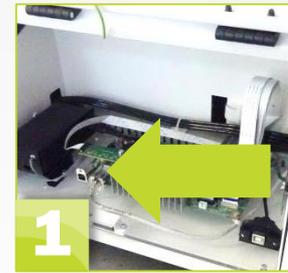
Click on Setup then default job properties and go to tab number 4.

## Step 5

Initiate Waste Tank

## Step 6

After reset is finish ,pull out USB cable , close the back cover.



# AOD

## AOD [agitation on demand]

in case of long hours printing if opacity of white ink decrease shake white ink bottles and tap AOD button  
[this function is used to ensure optimal white ink opacity]

### Step 1

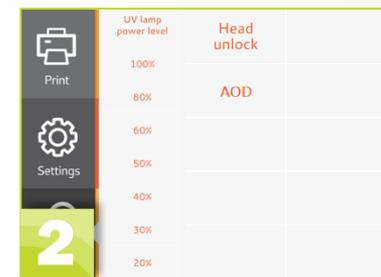
Shake white ink printer bottle back and fourth for about 1 minute

### Step 2

Go to precise adjustment menu and tap AOD button to start agitation on demand

### Step 3

Make a nozzle check to ensure that all nozzles are okay



# To Save Money

---

We recommend that if you know some of your inks are low and you are about to print a large or expensive job, replace any low cartridges to prevent running out before the job finishes printing. You can then put the low cartridges back in to use for smaller jobs.

This will allow you to use as much ink as possible while minimizing your risk of ruining a job.