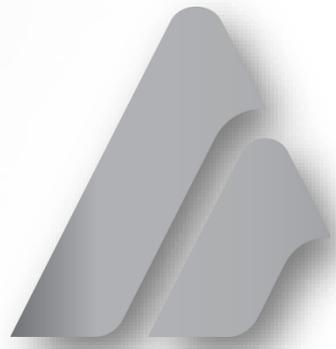


EDGE™



Getting
Started
Guide
EDGE™

EDGE™

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TECHNICAL SUPPORT

If you need technical assistance, you can reach a Digital Print Specialist at +385 1 4618-003 or at azonprinter.com

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Product Overview

Install. Create. Click. Print. Yes, it's that easy.

The EDGE printer is an ideal solution for UV-LED printing applications and materials including plastics, wood, aluminum, canvas ceramics, glass, and more.

- Accepts media up to: 19.68" (L) x 12.9" (W) x 5.11" (H)
(500 x 330 x 130 mm) 11 lbs. (5 kg)
- Maximum print area of 16.53" (L) x 11.41" (W)
(420 x 290mm)
with pass through capability for longer media
- Azon UV inks bond to materials such as plastic, wood, and stone. Using Azon adhesion promoters, the inks will also bond to many slick surfaces, such as glass, aluminum, and metal*
- Prints white and clear gloss ink
- High-power UV-LED light cures ink instantly for a cleaner, safer print
- Simple, easy to use software
- "Smart laser" beam detects object height automatically even on clear media
- Ultra vivid white ink
- Our commitment to providing personalized customer service
- Access to library of templates for efficient and profitable production

** All media should be tested for adhesion and durability.*

Safety Features & Regulatory Compliance

Read these guidelines before operating your EDGE printer

- Anyone who will be operating this printer should be trained on all guide lines and procedures.
- Keep your printer out of direct sunlight, which will interfere with the performance of the printer and the UV inks.
- Always keep the protective UV lid down during operation. UV light can be harmful with direct exposure to skin and eyes.
- Do not touch the print bed or print head while the printer is in use.
- Keep hair, jewelry and loose clothing away from moving parts.
- Do not attempt to repair your printer unless the guide specifically says to do so. Only factory certified Azon service technicians should disassemble, repair, or access internal components.
- When performing maintenance always power down as instructed to prevent injury.
- Only use Azon UV Inks and cleaners with your printer.
- Keep all inks, cleaners and primers out of reach of children.
- Use promoters in a well-ventilated area.
- Dispose of all expired and uncured inks in accordance to local and state laws.
- Always wear provided safety glasses and nitrile gloves whenever there is the possibility of exposure to uncured inks.



Choosing a Location

Choose Wisely

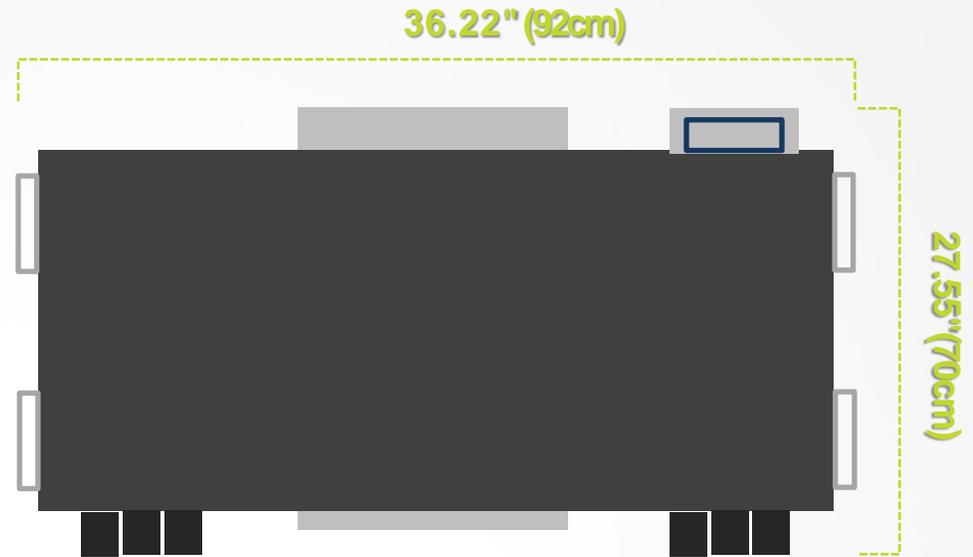
- The Azon EDGE weighs about 220 lbs (100 kg) so be sure you have the proper equipment/man power to move that amount of weight
- Position your printer on a stable, level surface so it doesn't move while printing (an unstable surface will impact your print quality)
- Select a well-ventilated, dust-free area out of direct sunlight
- Allow enough room on all sides of your printer for easy access
- Access to an electrical outlet of 220 /110 v +/- 10% VAC, 50-60Hz is required
- Be sure your doorways and walk ways are wide enough to maneuver the printer through to it's final location

Printer size

- 36.22" (L) x 27.55" (W) x 23.62" (H) (920 x 700 x 600 mm)
220 lbs. (100 kg)

Suggested work space

- 76" x 67"
(1920 mm x 1700 mm)



Temperature and Humidity

- **During operation**
Temperature 68°F to 90°F (20°C to 32°C) Relative humidity 35% to 80%
No condensation
- **During non-operation**
Temperature 59°F to 95°F (15°C to 35°C) Relative humidity 20% to 80%
No condensation

The printer environment should NOT drop below the recommended temperatures and NEVER near or below freezing. This can cause ink to expand and damage the print head and ink lines. If the temperature close near freezing, raise to recommended temps as soon as possible and let the machine warm up for 24 hrs. before turning it on.

Getting to Know Your Printer

Printer Anatomy

Getting to know the printer hardware is important. In this section, you will find diagrams of the printer and its parts. Be sure to familiarize yourself with the parts and descriptions, as they will be referenced throughout this guide.

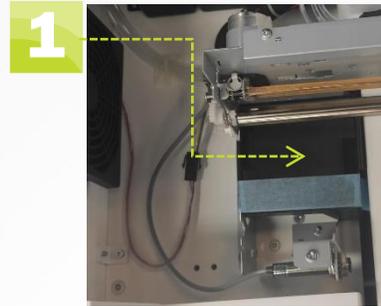
1	Top Cover
2	LCD Screen
3	Printing table
4	Gantry



Getting to Know Your Printer

Printer Anatomy

- 1 Ink Purge Tray
- 2 USB for service use only
- 3 Network connector
- 4 Main Power Switch



2



3

4

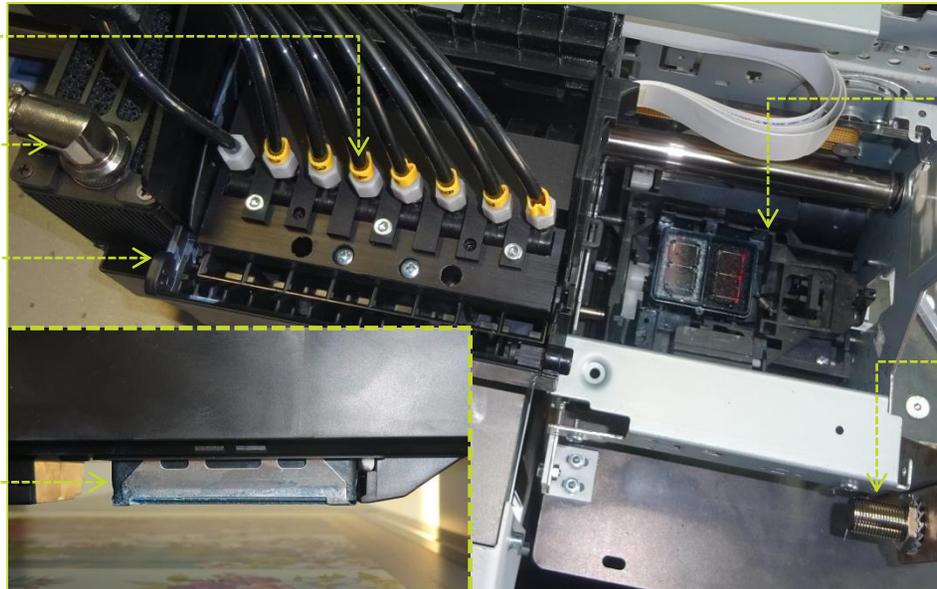
- 5 Dampers
- 6 UV/LED Light
- 7 Carriage
- 8 Pump & Cap Assembly
- 9 Print Head
- 10 Height Sensor Laser

5

6

7

9



8

10

Getting to Know Your Printer

Power On and OFF

1 Power ON OFF Button

- Power ON/OFF button is used to turn ON and to completely turn OFF the machine. It is located at the back of the machine.

2 Power ON machine

- Located on the back of the printer. After plugging in the cable into socket. Push the button to position 1 to turn on the printer.

3 Shut down procedure first part

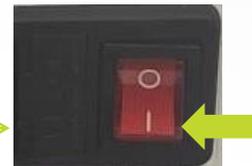
- Located on the display of the printer, enter maintenance tab. Press shutdown button and then again to confirm it to shut down the printer.

4 Shut down procedure second part

- After receiving this message on the LCD display, press 0 on the Power ON/OFF button at the back of the printer.



1

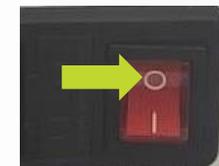
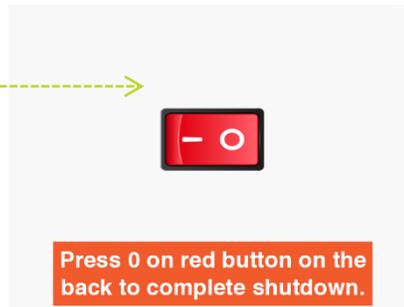


2

3



4



Getting to Know Your Printer

Ink Bottles



Always wear the recommended safety gloves and glasses when working around uncured ink.

If you get ink on your skin, wash right away with soap and water.

Fill ink bottle BEFORE you turn the printer ON for the first time.

With machine you have bought set of inks - Cyan, Magenta, Yellow, Black, White and Varnish. It is extremely important to follow all guide lines and procedures when using any type of UV ink.

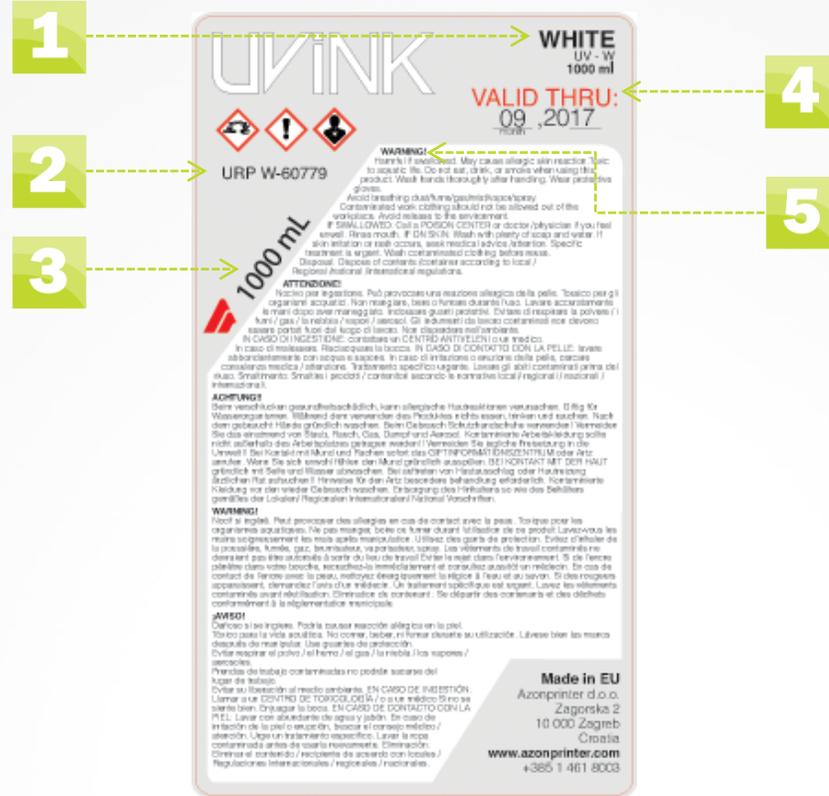
Why? UV inks when uncured can be harmful. Once cured by the UV LED light source inside your printer they are no longer harmful and can be handled freely.

- Inks are to be stored in a dry, cool location away from children.
- Keep inks out of direct sunlight.
- Always gently shake only the white ink bottle before you install it into the printer. Shake for 1 minute.
- Each ink bottle has an expiration date on the label and must be properly disposed of at the end of the expiration month. Be sure to check your shelf stock as well.
- To prevent throwing away unused ink due with expiration we recommend that you set up an inventory management plan.
- Properly dispose of all ink bottles in accordance to local and state law.
- Dispose of empty bottles the same as you would ones with ink in them. Even though it appears empty there will still be traces of uncured ink remaining.

Getting to Know Your Printer

Ink Bottles

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



White Ink Bottle Label



White Ink Bottle

Bottles Locations

Ink bottles need to be filled before you turn your printer ON for the first time (how to fill bottles)



LCD Touch Screen

Opening Screen - Examples

Turning on the main power switch located on the back of the printer will turn on the LCD touch screen.

BUTTON EXAMPLE

- All functions have color filled icons when they are Active and white filled when they are Non-Active.
- Push the icons to turn the function ON, and then press again to confirm. Some need to be held for 2-3 seconds to activate fully.

Opening Screen



Active Buttons

Head cleaning	Head unlock
Ink charge	Recirculation
Restart	Shutdown

Non-Active Buttons

Head cleaning	Head unlock
Ink charge	Recirculation
Restart	Shutdown

Confirm Button



LCD Touch Screen

Print Menu

1 Print Menu/ Main Menu

2 Print Ready

- Push when you're ready to print
- When this button is active, you cannot use the FORWARD/BACK function

3 Pause

- Will stop a job during printing and restart where it left off when un-paused.

4 Auto Gantry UP/ DOWN

- When held for 3 seconds gantry will keep moving UP/DOWN and then stop automatically

5 Gantry FORWARD/ BACK

- When held for 3 seconds the gantry will continue moving and then stop automatically

6 Single/ Multiple Layer Printing

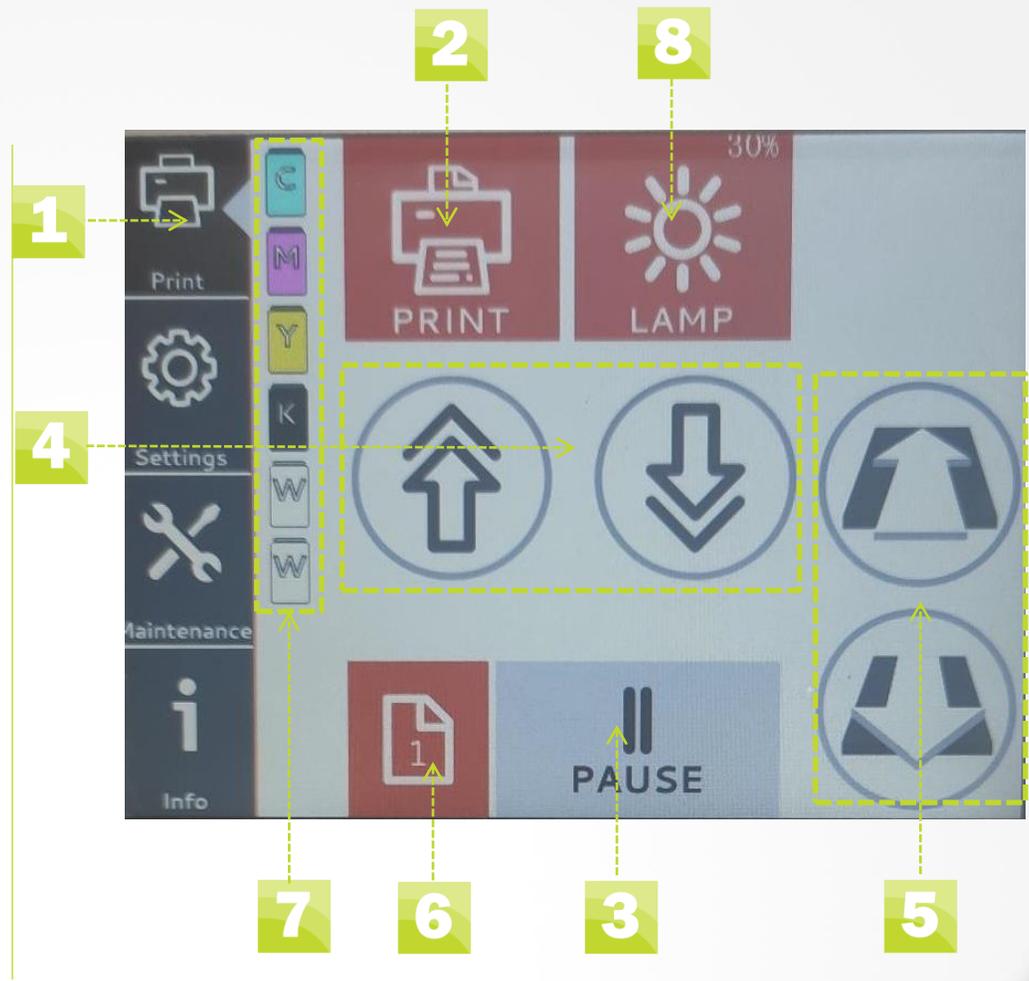
- 1 layer, second time press turns to 2 layer
- Third time press turns to 3 layer
- Fourth time press turns to ∞ layer
- Fifth time press turns back to 1 layer and so on

7 Ink Levels

- When icon start to flash its time to refill bottles

8 Auto UV Light

- Turns the UV Light OFF and ON



LCD Touch Screen

Settings Menu

1 Settings Menu

2 Disable Head Sensor

- Turns off the laser sensors so you can manually adjust the print head with the Gantry UP and Gantry DOWN

3 Disable Auto Height Check

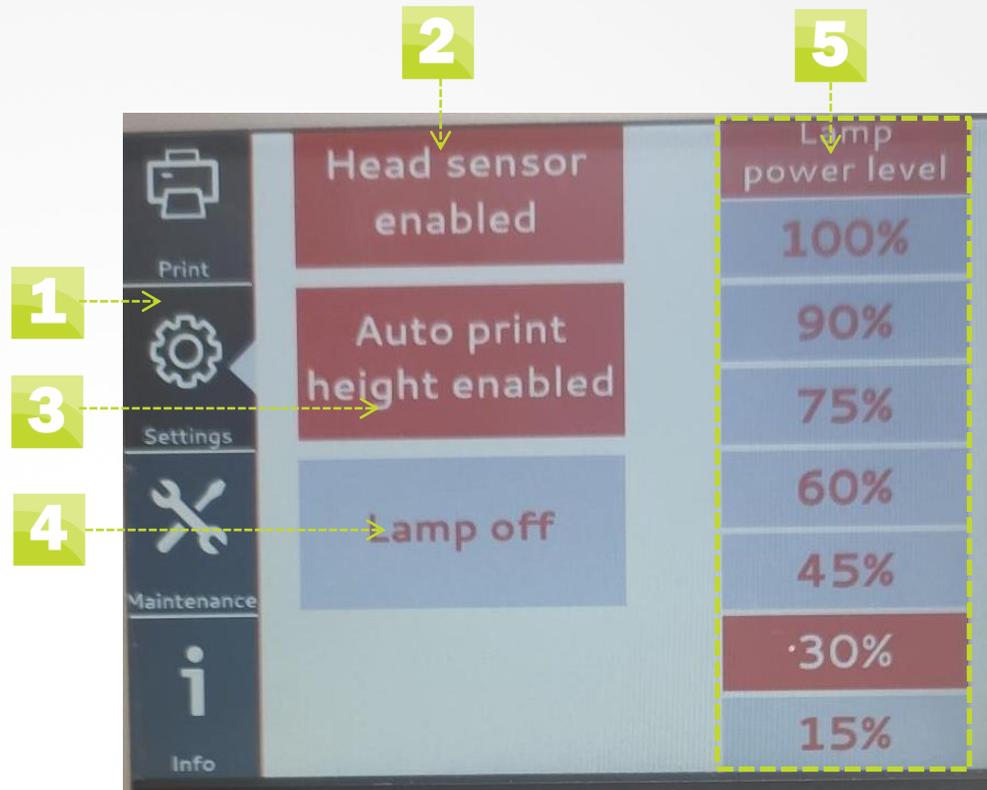
- Stops the printer from automatically checking the height
- The laser sensors will still be on and will stop the printer when the UP button is used

4 Manual UV Light

- When this is active, the Auto Light is OFF so you must manually turn the UV Light ON and OFF

5 UV Light Power Levels

- This allows you to select how intense you want the UV/LED light to be



LCD Touch Screen

Maintenance

1 Maintenance

2 Head Cleaning

- Starts the automated print head cleaning process

3 Head Unlock

- This will unlock the print head carriage ,so it can be moved manually across X axis [scan]
After task is finished tap head unlock again and printer will return print head carriage in its original position

4 Recirculation

- In case of long hours printing, if opacity of white ink decrease shake white ink bottles and tap Recirculation
[this function is used to ensure optimal white ink opacity]

5 Restart

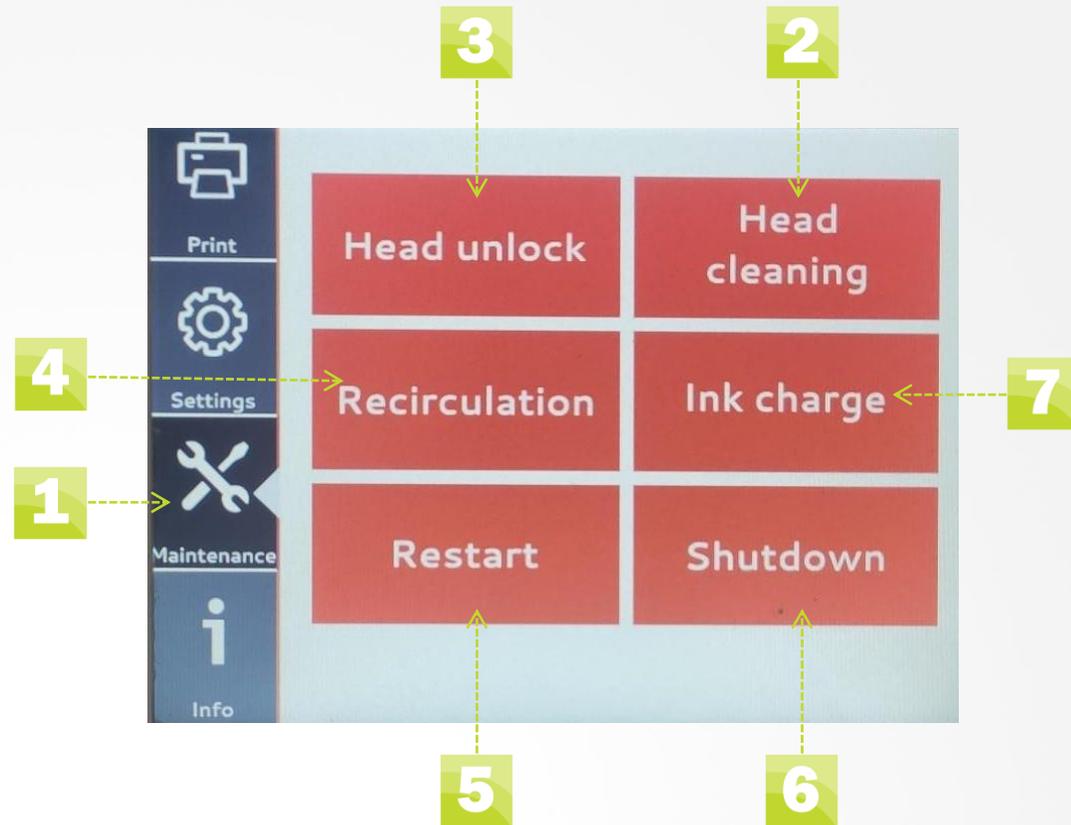
- This will cancel the current print job in the printer, but not in the computer. To completely restart/cancel you must do so in the printer AND the computer

6 Shutdown

- Turns the printer off, but does not shut it down completely
- To shut the printer down completely, press 0 on the Power ON/OFF button at the back of the printer.

7 Ink Charge

- Starts the Ink charge process



Setting Up Your Printer

Filling Ink Bottles



Fill ink bottles **BEFORE** you turn the printer **ON** for the first time

Quick Tips

Open printer bottles one at the time
All printer and transport bottles are labeled
White ink transport bottles need to be shaken before pouring white ink into printer bottle

What You Need

Full set of UV ink bottles

Step 1

Open printer bottle which you want to fill with corresponding ink .

[open one bottle at a 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 folium 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 up machine

Setting Up Your Printer

Turning the Printer on for the First Time

 Fill ink bottles **BEFORE** you turn the printer **ON** for the first time

Quick Tips

Read the entire chapter before turning on the printer for the first time.

What You Need

Full set of UV ink bottles

Step 1

Check that the main power switch on the back of the printer is set to 0.



1

Step 2

Plug the AC Power cord into the back of the printer and into the wall.



2

Step 3

Switch on the power ON button on the back of the printer.



3

Setting Up Your Printer

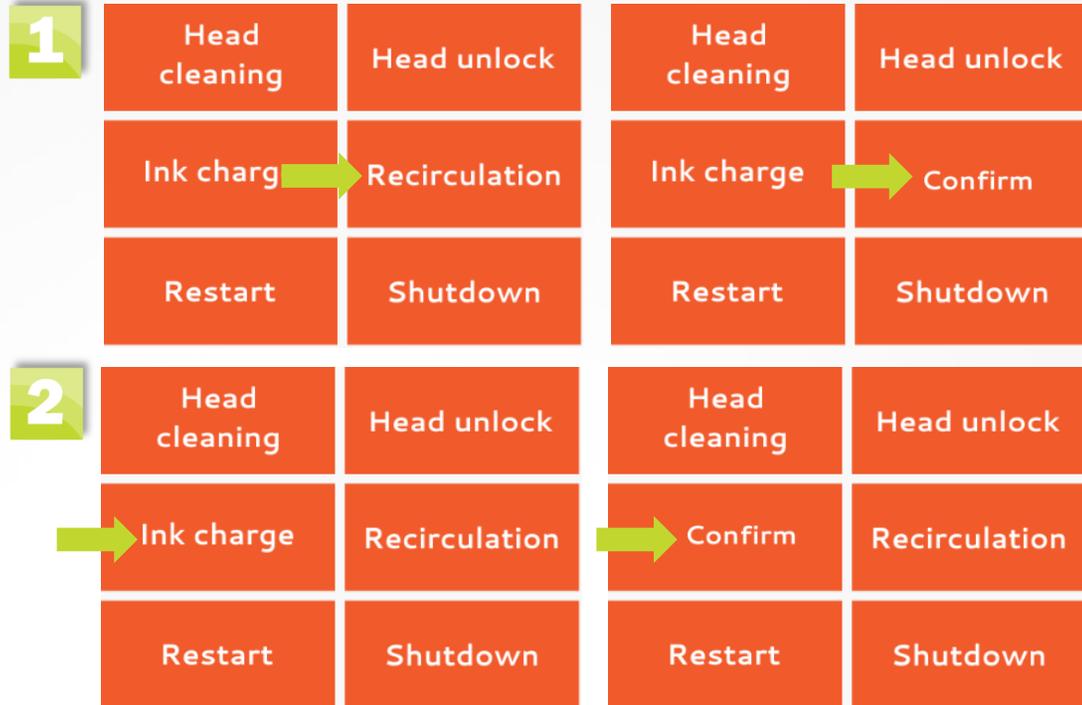
Recirculation and Ink charge

Step 1

Enter maintenance tab and press Recirculation and press again to confirm it.

Step 2

After Recirculation is done and LCD display returns to regular Maintenance tab, press Ink charge to fill up the system



Setting Up Your Printer

Nozzle Check

Step 1

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

Step 2

Turn on the printer from the back side. Press the power button socket to position 1.

Step 3

Check if the printer is in Ready state. Press the info tab on the display. Current status should be Ready

Step 4

Position nozzle check sheet, right side to the end of the table, front side on top of the zero point sticker, refer to picture on the right.

NOTE:

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



Setting Up Your Printer

Nozzle Check

Step 5

Push (hold for 1-2 sec) the Auto table UP button. The table will go up and stop automatically. If the table doesn't move, it means it's already all the way up.

Step 6

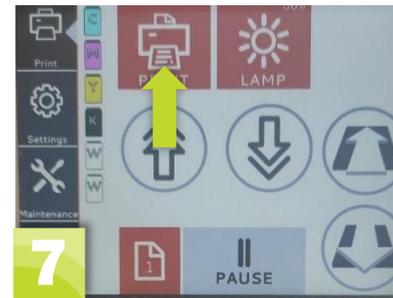
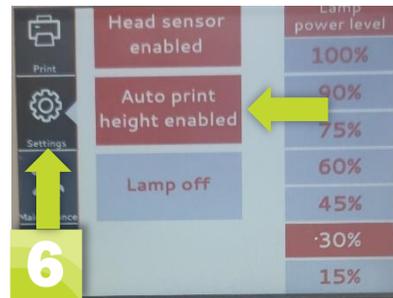
When the table stops, select the Settings icon, and check that auto print height is enabled.

Step 7

Press the "PRINT MENU" button.
Press the Print button.
Stand clear, the gantry will move backward towards the test sheet to position to print.

Step 8

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



Setting Up Your Printer

Nozzle Check

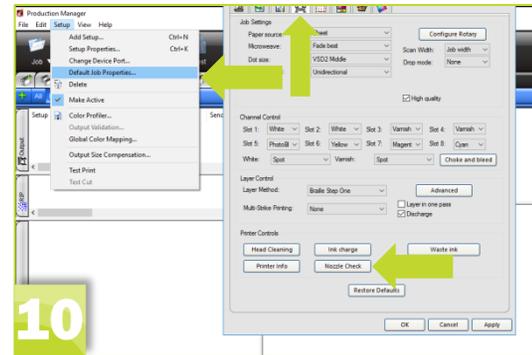
Step 9

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



Step 10

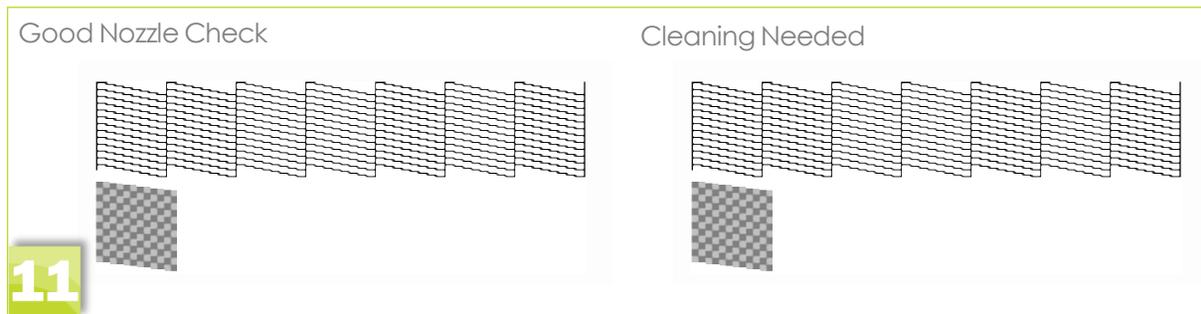
Click on default job properties and go to tab number 4 Initiate nozzle check



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)



Setting Up Your Printer

Nozzle Check - If Excessive Gaps



Perform the following steps if the Nozzle Check resulted in excessive gaps in the print

Step 1

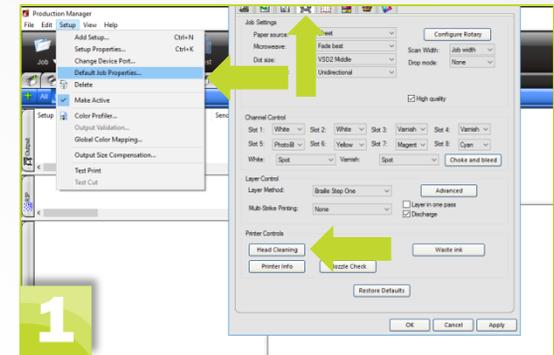
Click Head Cleaning on your computer screen
This will start an automatic cleaning of the print head which will pull more ink into the lines

Step 2

When the auto cleaning stops repeat another Nozzle Check

Step 3

If nozzle check is still not good even after autocleaning , call your local Azon Technician for advice



Shutting Down Completely

Shutting Down Your Printer

1

Shut down procedure first part

- Located on the display of the printer, enter maintenance tab. Press shutdown button and then again to confirm it to shut down the printer.

2

Shut down procedure second part

- After receiving this message on the LCD display, press 0 on the Power ON/OFF button at the back of the printer.

Head cleaning	Head unlock	Head cleaning	Head unlock
Ink charge	Recirculation	Ink charge	Recirculation
Restart → Shutdown		Restart → Confirm	

