
INTRODUCITON TO LOGO-EZ PRINTER

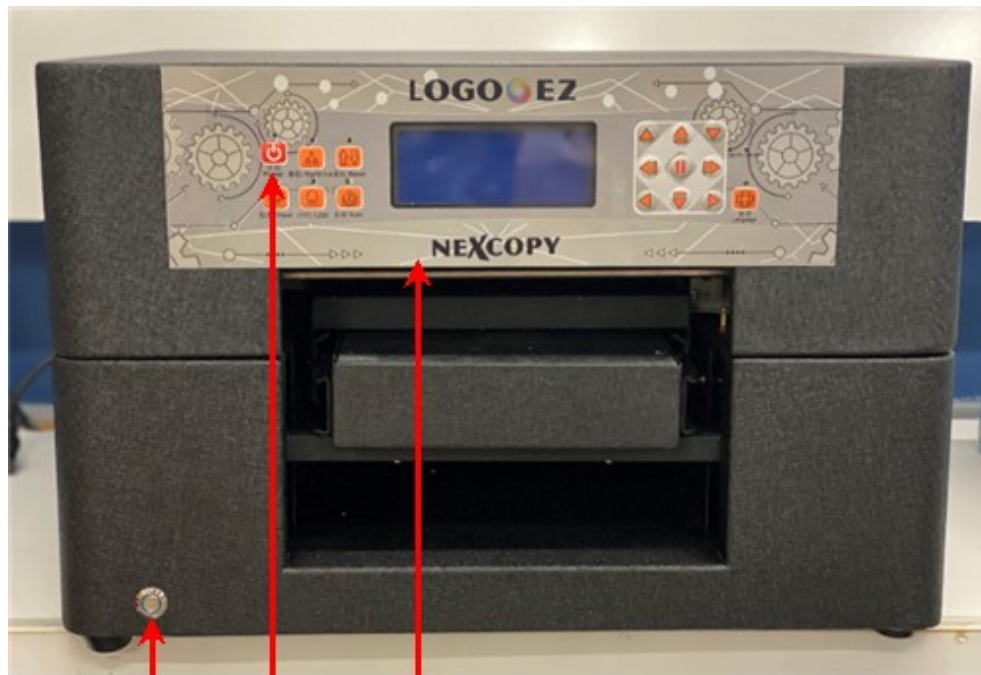
Setting up the Logo-EZ printer for the first time will take several hours. Please read this entire manual before you begin. It will help, trust us. The most important thing to understand is the overall process of getting the printer up and running. There are many elements which you will perform today. Please block off 3-4 hours of uninterrupted time for the setup.

Here are the general steps of the process you are about to begin:

- **Printer components and buttons**
- **Power the unit on and test mechanics**
- **Align base printer tray, alignment bar & sensors**
- **Fill the system with ink, both ink tanks and cartridges**
- **Install print driver, adjust driver settings and RIP Software**
- **Print for the first time (Head Cleaning & Nozzle Check)**
- **Alignment of USB tray to your printer**
- **Print test position to USB stick**
- **Heater setting**
- **Printing Tips**
- **Cleaning and hibernation**
- **Maintenance of print head and waste bucket**
- **Troubleshooting**
- **Mechanical and Security Information**

PRINTER COMPONENTS AND BUTTONS

Visual introduction

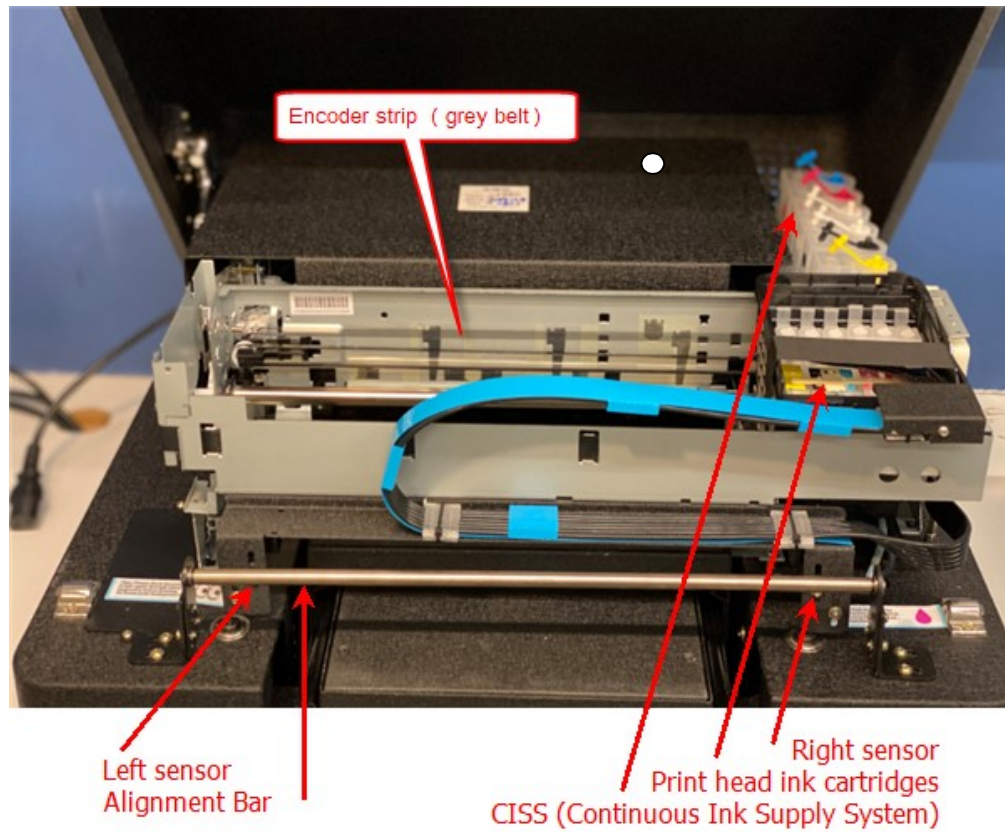


Main control board
Control board power button
Master power button



This part of the control panel
relates to the print head and
ink system.

This part of the control panel
relates to the mechanics of the
printer tray and robotics.



Please study the following indicators to help in operation

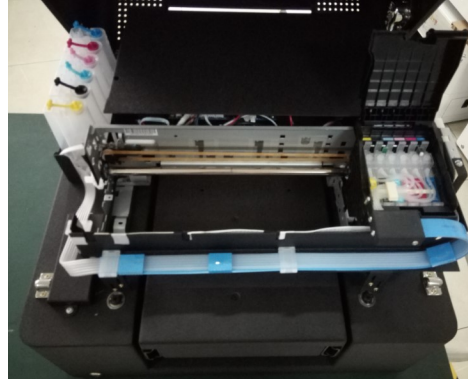


NO.	NAME	FUNCTION
1	Power button	Turn on/off the printer
2	Printer indicator light	Indicate the printer status
3	Refill ink	Working signal for ink and cartridges
4	Refill ink indicator	Signal for refill the ink
5	Reset button indicator	Signal for print tray jam
6	Reset button	Move print tray to back position, click Reset button to clear tray jam
7	Printer Screen	Show the printer present status
8	Slight up button	Press to move tray slightly up
9	Up button	Press for tray to move up (continuously)
10	Slight down button	Press to move tray slightly down
11	Forward button	Press to move tray forward (out towards user)
12	Slight forward button	Press to move tray slightly forward
13	Pause button	Press to stop tray movement
14	Down button	Press for tray to move down (continuously)
15	Slight backward button	Press to move tray slightly backwards
16	Backward button	Press to move tray backward (away from user)

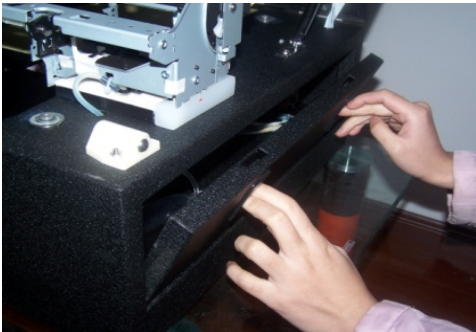
17	Link on	Press backward button so tray is fully back, Link On light will be green, the screen will show "wait for printing", then you can send a printing job
18	Link off	Cannot send a print job when this light is Yellow
19	Language indicator	Show the language
20	Language button	Change language English or Chinese
21	Heat button indicator	Show the heating status
22	Heat button(check page16)	Adjust heater temperature
23	Led button	Adjust light intensity (not for this printer)
24	Led button indicator	Show the led status (Not for this printer)
25	Auto button	The tray will move to initial position(6cm distance to top of the flatbed), then adjust the height automatically.
26	Auto button indicator	Show the auto status, press pause button will stop it

UNPACKING THE PRINTER

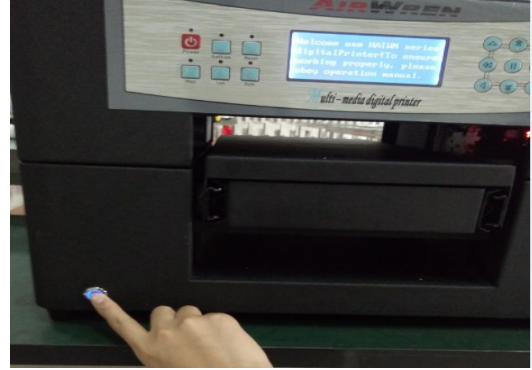
Open the cover and remove all fixed tape and/or foam. Inspect the inside to insure no material will block the print head, motors or rails from operating and moving.



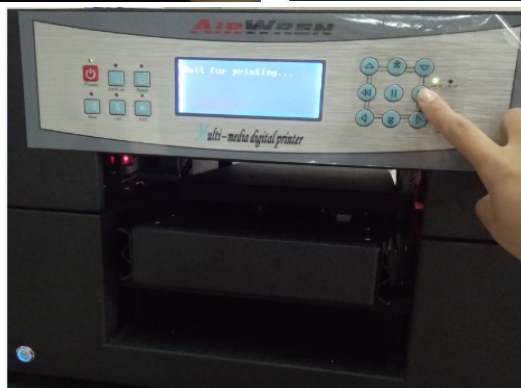
Open the “Right side door” and be sure the ink tank (glass jar) is connected to the waste ink hose and is then properly secured and upright.



Connect the power cable and turn on the printer using the front, bottom left blue button. Do not connect the printer to the host computer at this time.



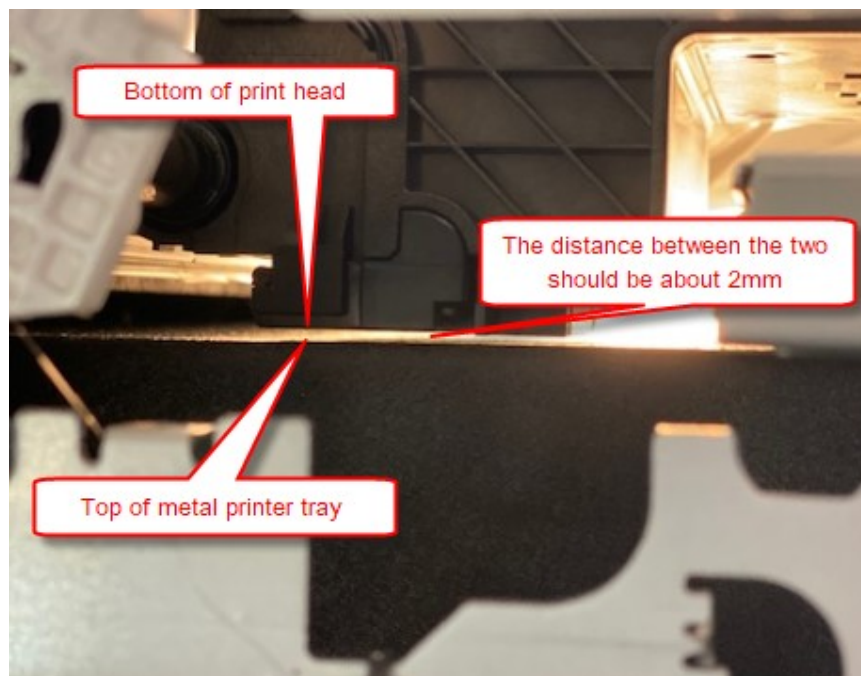
The **blue power button** is the master power button for the printer. Now turn on the main control board for print management. Press the **red power button on the touch-pad display**. See image below. Next, press the button to send the printer tray to the back position (**the >> button**). During this time, the screen will show “Wait for printing”. The **LINK ON** light should be green. If not, please press backward button (>) to move the tray back completely.



ALIGN PRINTER TRAY, BAR AND SENSORS

Nexcopy aligns the print head, sensors and alignment bar before each printer leaves our warehouse. Unfortunately, the printer is very heavy and movement can occur during transit. For this reason we must check, test and re-set the alignment devices of the Logo-EZ printer. In many cases this step is not required, but reviewing the following setup will determine this.

Our goal is to review how close the print head is in relationship to the printer tray, when the printer tray is all the way up (as high as possible). The ideal distance is 2mm and the closer the print head is to the object the crisper and more clear the image will be when printed.



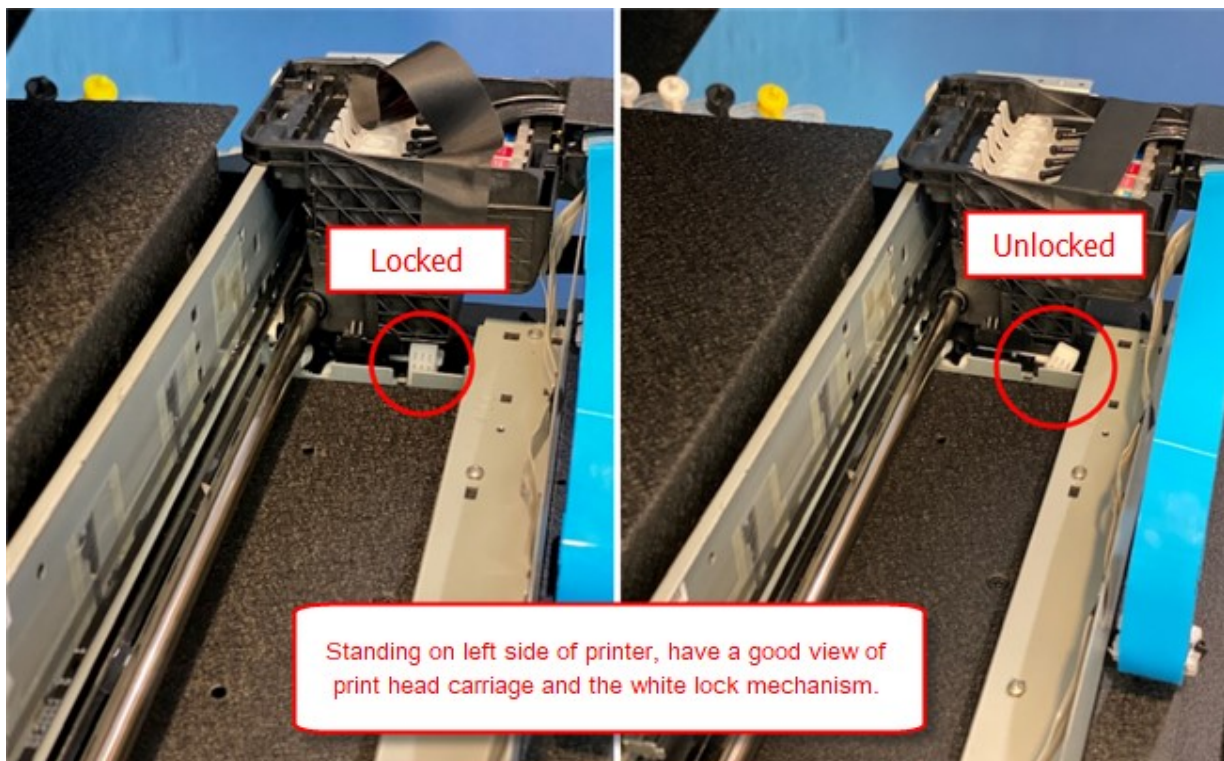
To review the distance between the two, we must release the print head carriage so we can move it and investigate. Do the following:

Power off the unit and main control board.

Open the hood of the printer and stand on the same side of the printer as the blue power button (left side).

Power on the printer using the blue button found at the bottom left, front of the printer.

The next step will require some fast action by you. Review the picture below before proceeding, note the positions of “lock” and “unlock” as this is what you will look for.



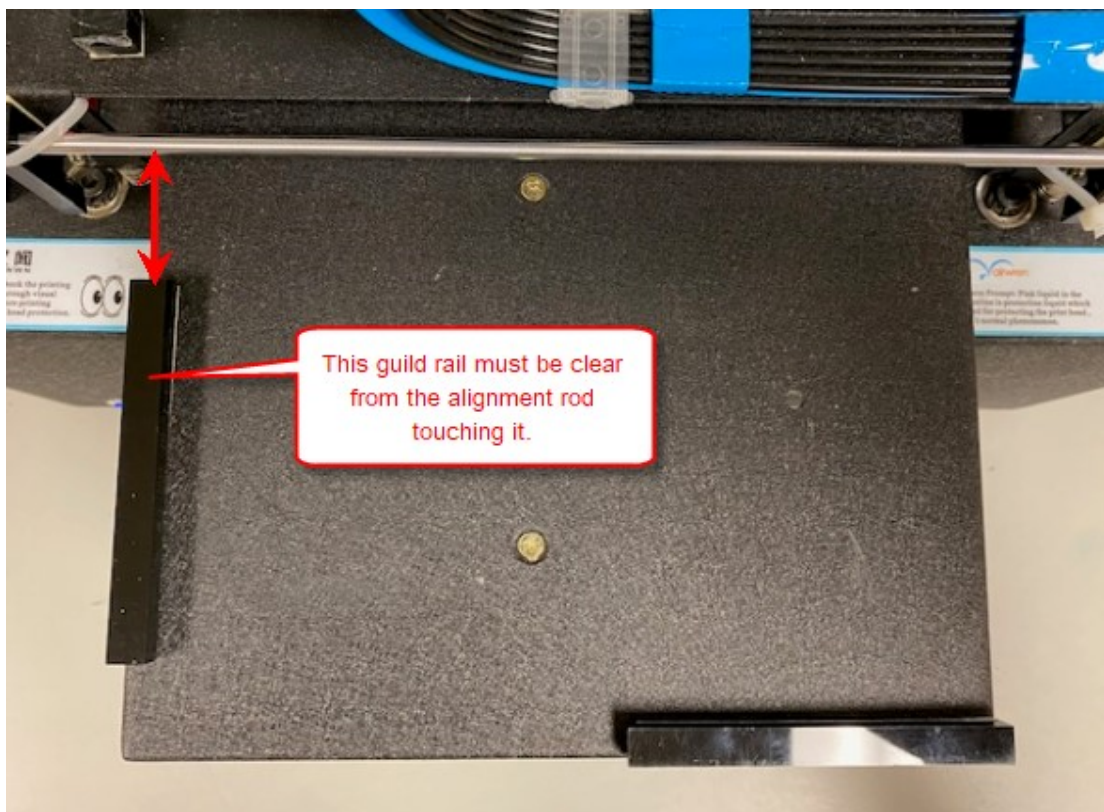
You need to power up the control panel using the red power button, but **the moment the white lever, which holds the print head carriage (moves to the right) and unlocks, power off the entire machine using the blue master power button.** TIP: Don't be too worried about timing, as the print head moves quite a bit while starting up and the locking mechanism will move several times. Your goal is to power down the unit in the "unlocked" state. By doing this, the print head carriage is released and we can move it freely to check alignment.

It's time to check the alignment of the unit.

Power the unit back on using the blue power button. Notice the print tray has guild rails on the front and left sides? Take note, we will be addressing them in a moment.

Send the printer tray all the way to the back using the backward button (>>).

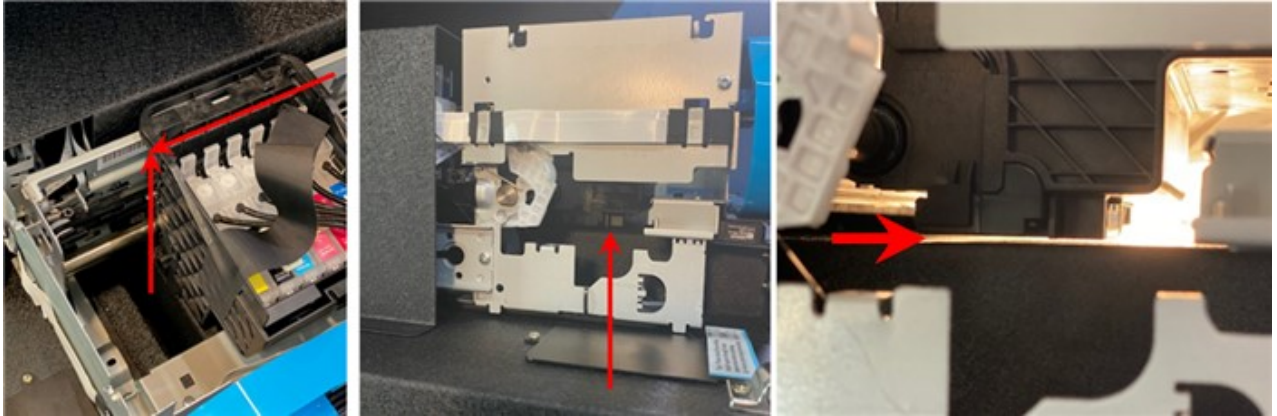
Next, move the printer tray forward and move the tray forward just enough so the guild rails are past the alignment bar. You can use the **Pause** button to stop the tray from moving forward. Your end result should be a position like the following image:



Next, move the printer tray all the way up using the (up) button. Do not use the “Auto” button to do this procedure. Move the tray up until the sensor stops the tray.

Once the tray has stopped from the sensor, move the print head carriage to the left and visually make it flush or even with the left edge of the printer tray. Our goal here is

getting the tray and print head as close to you as possible for visual inspection. Look through the left side of the printer (as the middle image below) and inspect to see how close the print head gets to the printer tray. Is it 2mm (or so) in distance?



If you feel the print head is about 2mm away from the tray, you are ready to move on to the “Fill the Ink” section of this manual.

If you feel there is too much distance between the print head and the printer tray, let us align the system so there is tight registry between the two elements. Again, the closer the print head is to your USB drive, the clearer printed images will be.

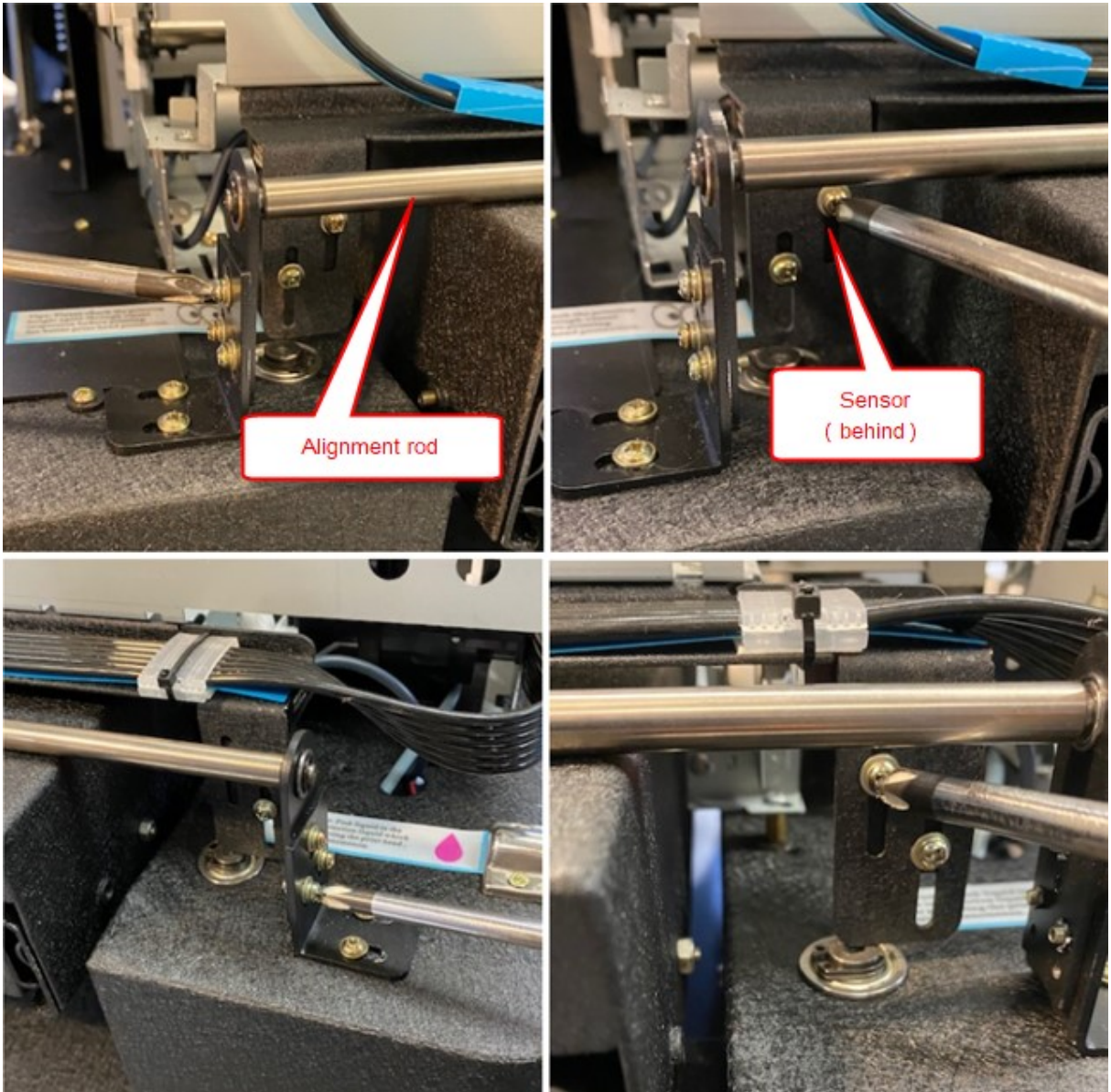
Keep the print head in this same position, that being to the far left.

Loosen all the screws related to the alignment bar. There should be three screws on the left side and three screws on the right side. The bar should move up and down freely.



Next, loosen the left sensor screws. Move that sensor as far up as you can and tighten the screws. Next, loosen the right sensor screws. Move that sensor as far up as you can and tighten the screws.

At this point we have the sensors as high as they will go and the alignment bar is loose.



Move back over to the left side of the printer and use the UP button to move the tray up and towards the print head. Be sure to use the Pause button when needed. Your goal is getting the printer tray 2mm away from the print head.

Once the distance between the print head and printer tray is about 2mm in distance, move the metal alignment rod so it is horizontal on the printer tray and tight the screws.



Your last step is adjusting the sensor back down so they are in line with the metal alignment bar. This will take a bit of trial and error on your part. When the sensor is activated the tray will adjust down, slightly and automatically. So you may need to raise the printer tray back up so that it just touches the metal alignment bar.

The final goal would be having the sensors activate and stop the printer just slightly below the metal alignment rod. Just so a piece of paper could slip underneath without friction. You will find the metal alignment rod is what you will use most to determine how close to put the printer tray to your USB drives, and the sensor is a great back-up so a product should never get so close to the print head that a collision occurs.

FILL THE INK

Filling the Continuous Ink Supply System or CISS

Fill the large ink tanks.

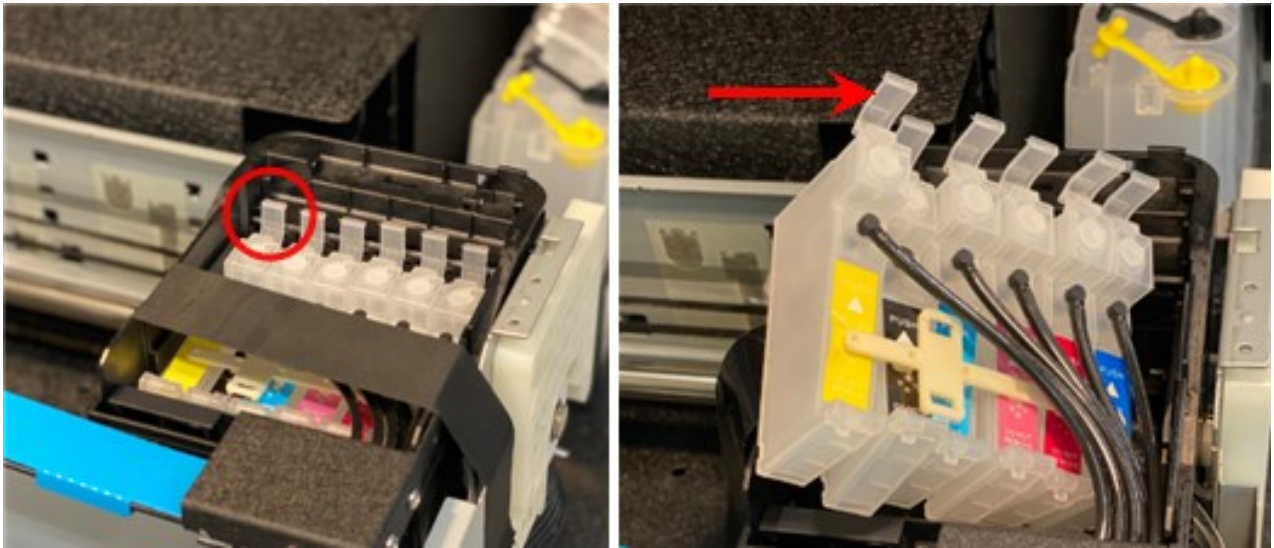
Open each of the large rubber stoppers for each color from the big ink tank (do not open the smaller side if rubber stoppers, those are used for pressure control later on). Fill each ink tank in the same color order as the print head cartridge labels. The order should be **Yellow, Black, Light Cyan, Light Magenta, Magenta, Cyan**. See image below. Use the provided syringes to fill the ink tank (Note: One color per syringe – do not use one syringe for multiple colors). Do not fill the ink tank more than 4/5th of the way full.



You do not need to close the rubber stoppers at this time. We will adjust the rubber stoppers a bit later in the process.

Draw ink to the ink cartridges above the print head.

Using the same syringes as to fill the ink tank colors, draw or suck ink into each cartridge according to the color label on the cartridge colors. You do this by removing one ink cartridges from the print head carriage. Pull the clear plastic tab forward and lift cartridge out.



Find the hole on the underside of the cartridge, insert the syringe and pull the syringe back to draw out the air and draw in the ink for the larger ink tanks. Continue this draw or suck process until you see the color ink coming into the ink cartridge. Fill up the ink cartridge; you do not need to fill so full that ink enters into the syringe.

Re-insert the ink cartridge into its location and continue to the next color. Repeat the process until all six color cartridges have ink. We will use the software to finalize the ink flow from the large ink tanks to the ink cartridges and through to the print head.



Draw air out of cartridge
to begin ink flow

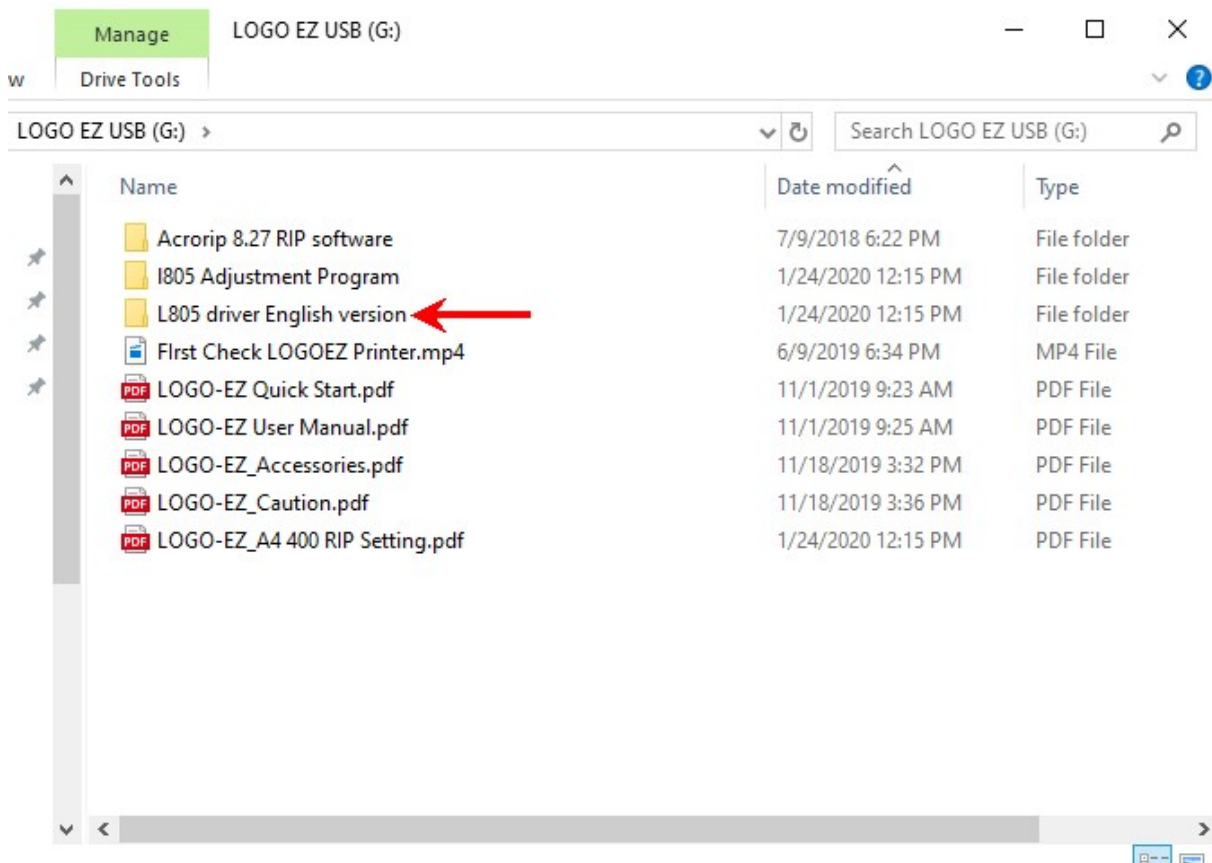


NOTE: Fill ink carefully. Do not spill ink or liquid into / on the print head. This could permanently damage the print head, which is considered a consumable product under warranty.

INSTALL PRINT DRIVER & RIP SOFTWARE

From the USB which came with your printer, search for the **L805 drive English version**.

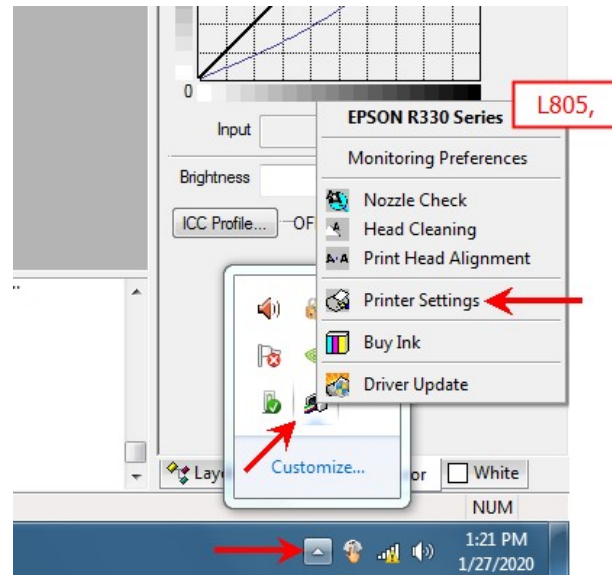
TIP: Print driver could be different than “L805”



Install either the 32bit or 64bit version depending on your computer. Most Windows 7 and Windows 10 computers are 64bit.

Once this is done please configure the printer settings to be that for our application.

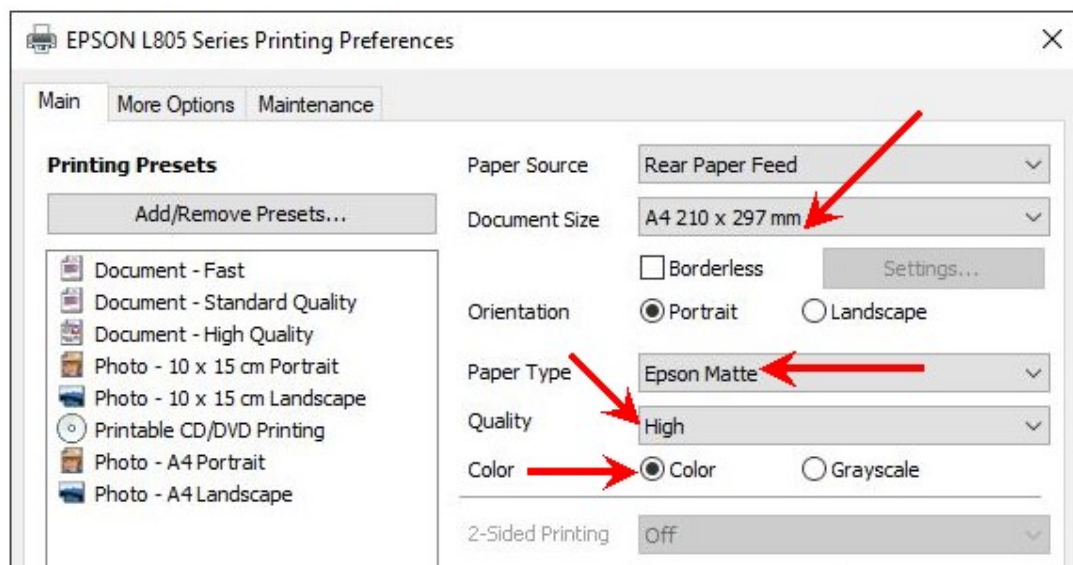
From your **taskbar**, find the printer and select **Printer Settings**



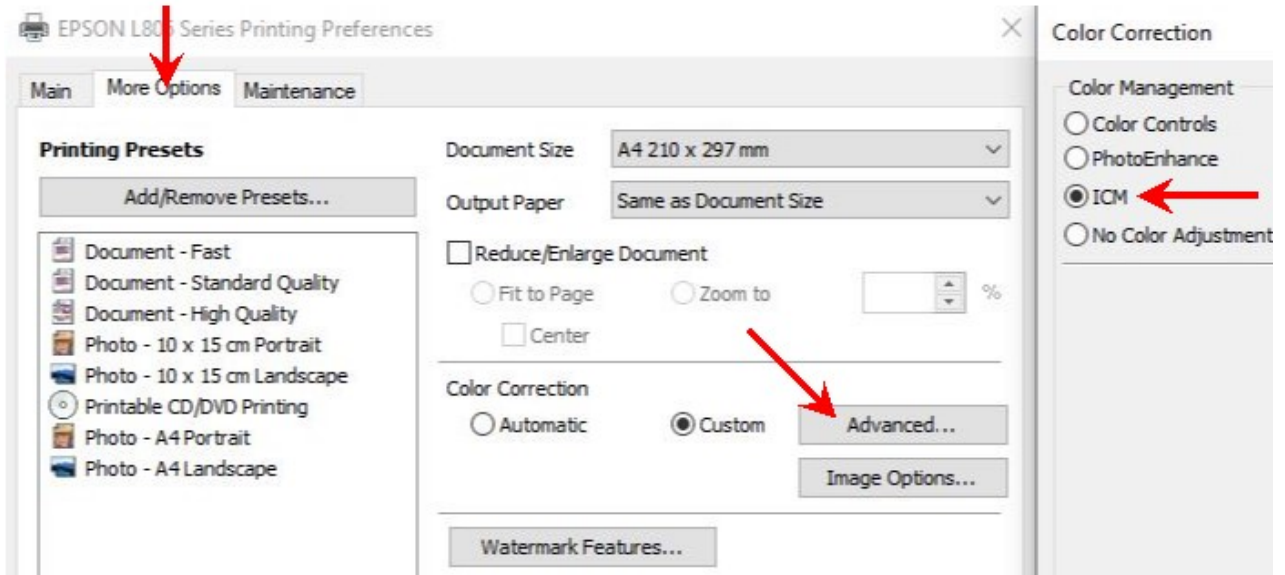
From the **Main** tab of the printer settings check the following:

Document Size: A4 210 x 297mm / Paper Type: Epson Matte

Quality: High / Color: Color

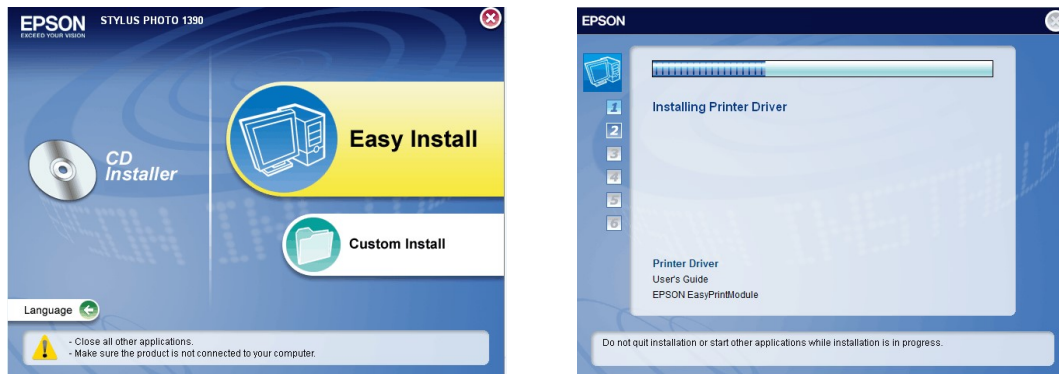


Next, click the **More Options** tab and in the **Color Correction** section click **Advanced** and select **ICM**.



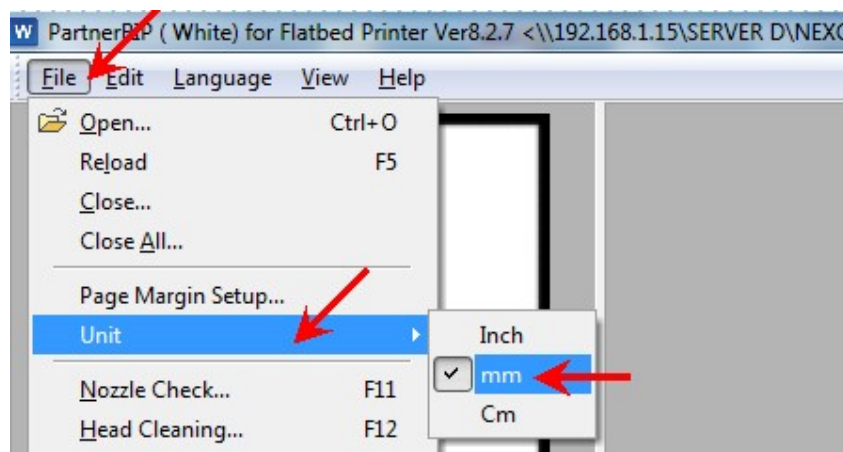
You have now configured your print driver correctly.

Once the print drivers are done, find the **Acrorip** software. RIP stands for **Raster Image Printing** or said another way; this software will convert vector files to high resolution images for printing (RIP). This is the software used to print images. Follow the software prompts during installation.



After the installation process, open the software and let us adjust the unit measurement.

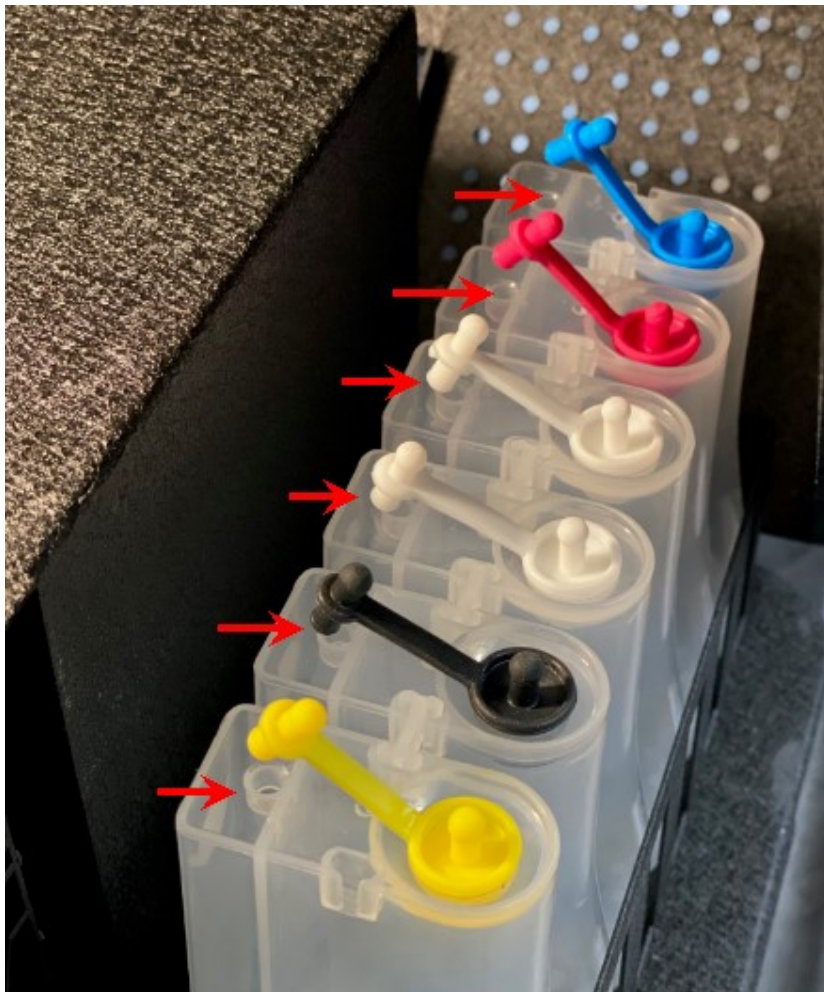
Go to **File > Unit >** and select **mm** for Millimeters



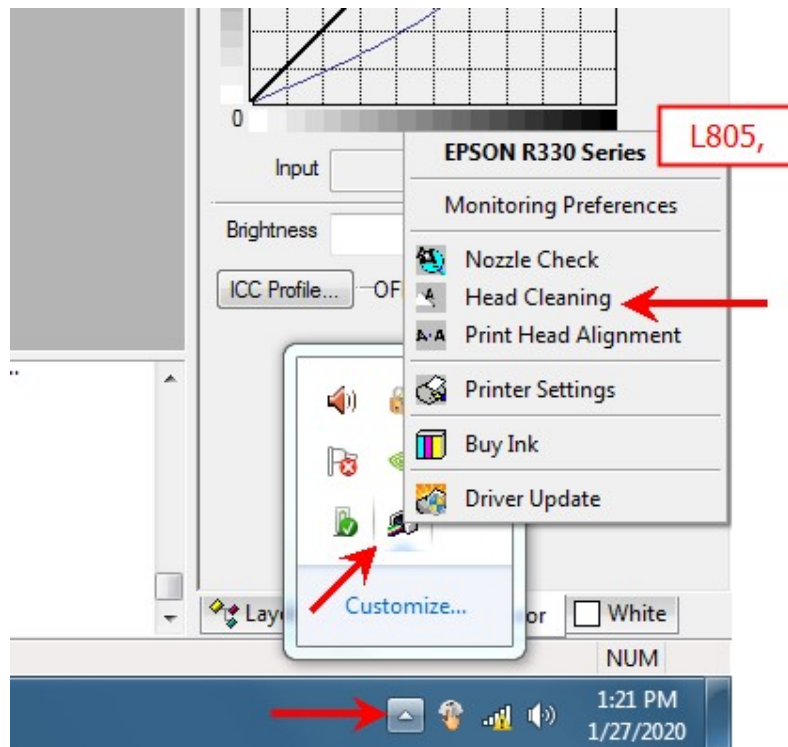
Once the printer driver and RIP software are installed you may connect the printer to the host computer using the USB cable found in your shipment.

PRIME THE PRINT HEAD

Now that our driver and software are loaded, let us use the print driver to prime the print head. First, be sure the rubber stoppers of your CISS are proper. **The large plug should be closed and secure, the small plugs should now be open.** This allows pressure, from the top down, to flow into the system.



Once the rubber plugs are set as described, find the printer in your task bar and right click on the **Epson printer** and select **Head Cleaning**



Follow the software prompts to begin the process. As the head cleaning is going through its process, open the right side panel of your printer and view the waste tank. Be sure the waste tank is sitting up properly and the ink tube is secure and going into the bottle. There is probably no ink going to the waste tank at this time, and that is normal.



Once the **Head Cleaning** is complete a **Nozzle Check** will test how well the print head is getting ink flow. To perform a nozzle check, do the following:

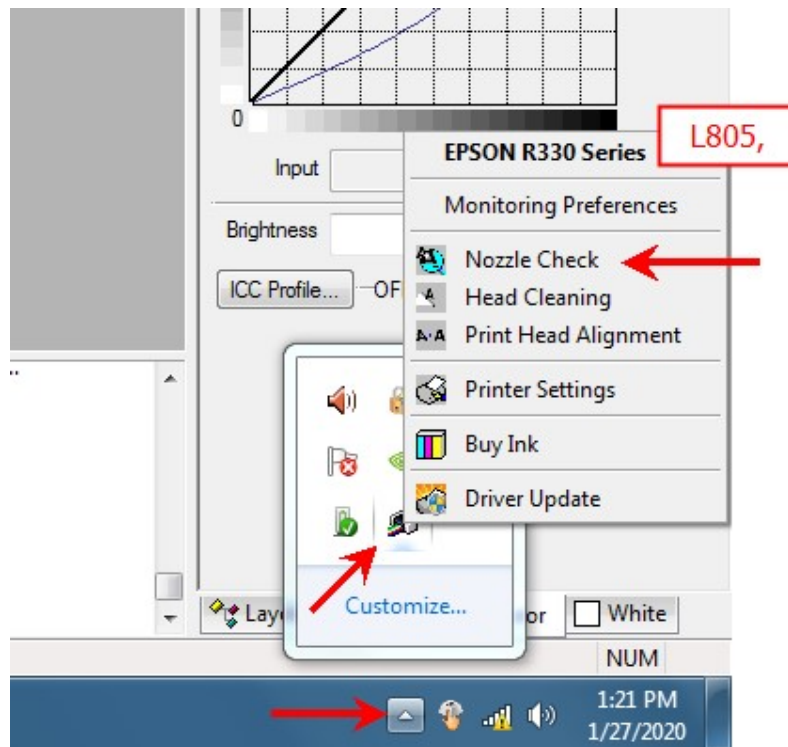
Using the buttons on the control panel, move the printer tray to the forward position.

Place a white sheet of paper in the front right of the print tray. You can use tape if you wish to secure the paper. Move the tray up - towards the alignment bar. This will get the white paper closer to the print head. Have the paper about 1/8" away from the alignment bar (as close as you can without the paper touching the alignment bar).

Using the control panel, send the printer tray to the back position (>>).

Navigate to your task bar once again and find your printer and right click on the L805.

From the list, select **Nozzle Check**



After the **Nozzle Check** is complete you can review the CMYKLcLM printout. If all the lines are not solid, you should perform a **Head Cleaning** again. It is very possible you will need to perform a **Head Cleaning** multiple times before the **Nozzle Check** produces a printout that is all solid.

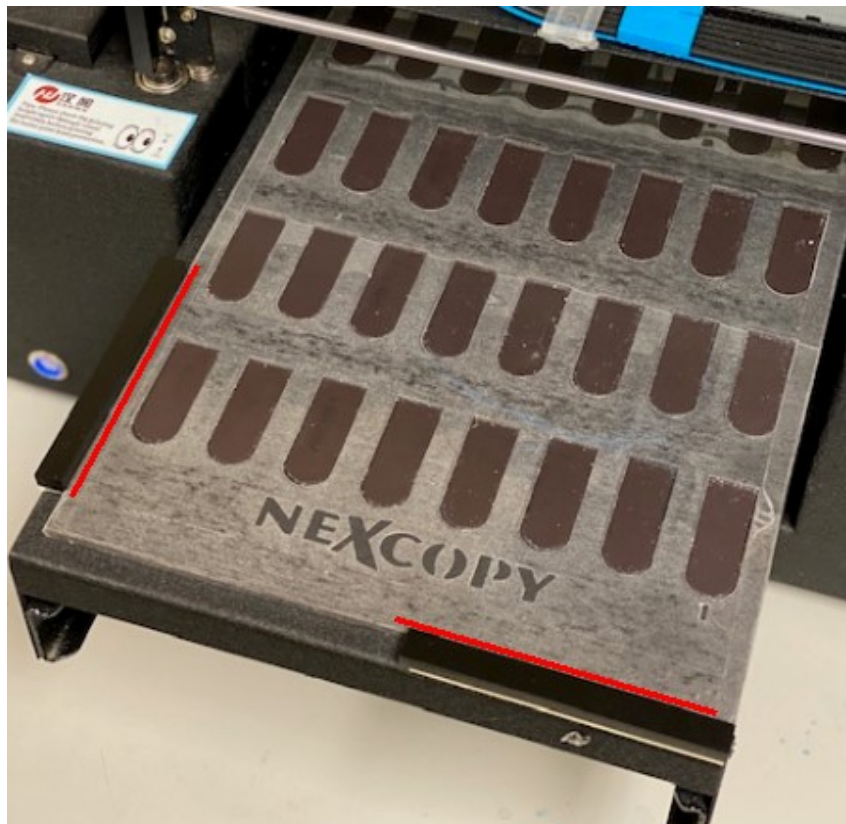


ALIGNMENT OF USB TRAY

The following instructions are for the default swivel drive USB tray which comes with the LOGO-EZ printer.

Place a **USB tray** into the base printer tray. The USB tray is a bit flexible, the **base printer tray** is the metal printer tray which moves forward / backward / up / down.

There are magnets on the USB tray which should “snap” the USB tray down to the base printer tray. Position the USB tray as forward and left as you can. The USB tray should sit up against the plastic rails on the left and front side of the base printer tray.

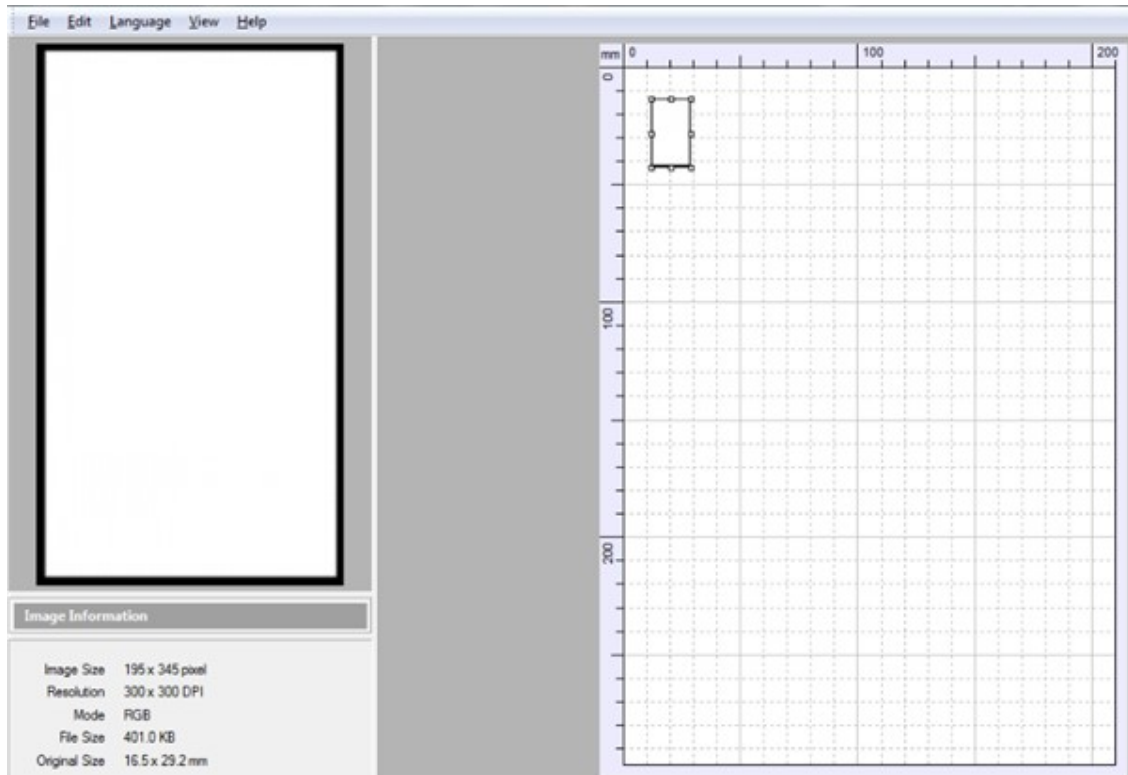


Launch the **Blue or W RIP** software icon which you see from your Desktop, or from your list of programs.



Once the software has launched, find the Photoshop file found on the installation USB named **1.65x2.292cm.psd**. Open this file into the RIP software.

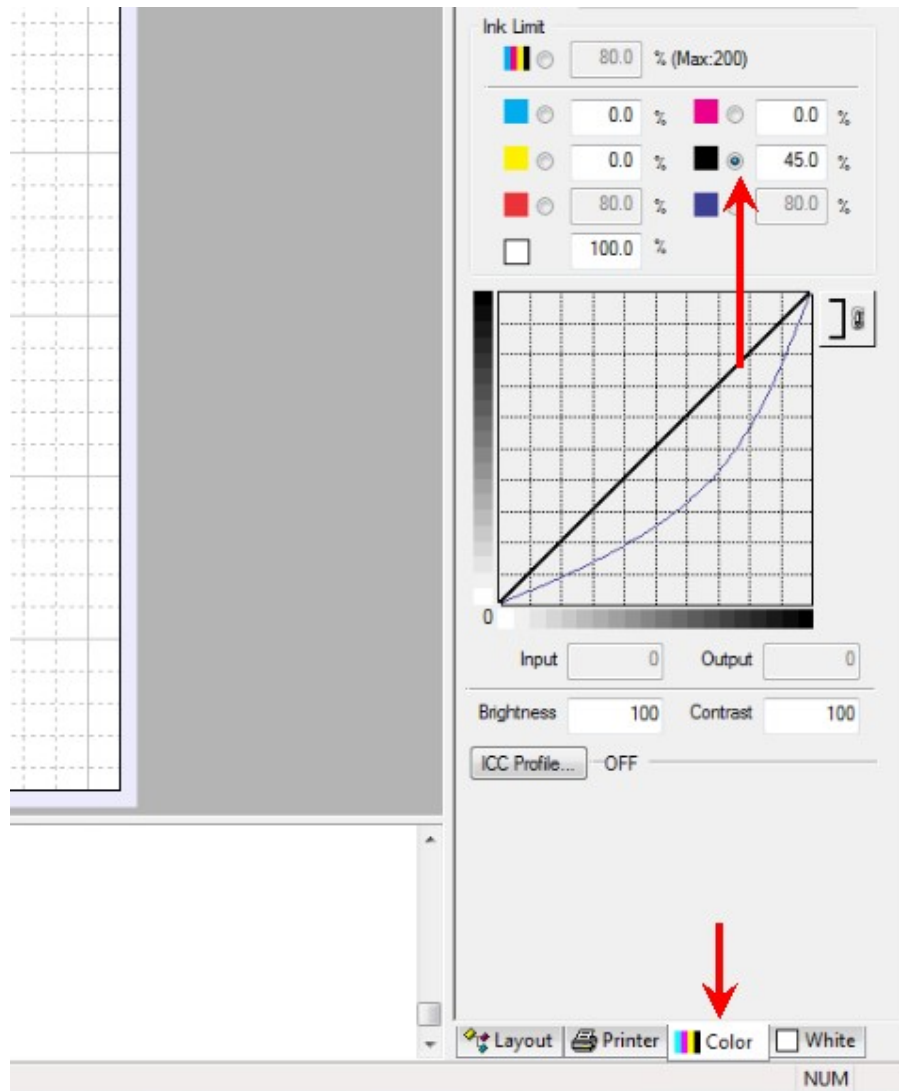
You will see a rectangle which represents the maximum amount of space you can print to the area of a swivel USB drive.



You need to enter some values into the software to get this test square close to the position of your first USB.

On the right side bottom, look for the **Color** tab and enter the value of **45** for **black**.

This will reduce the amount of ink at this moment, because we don't need a lot for this task.



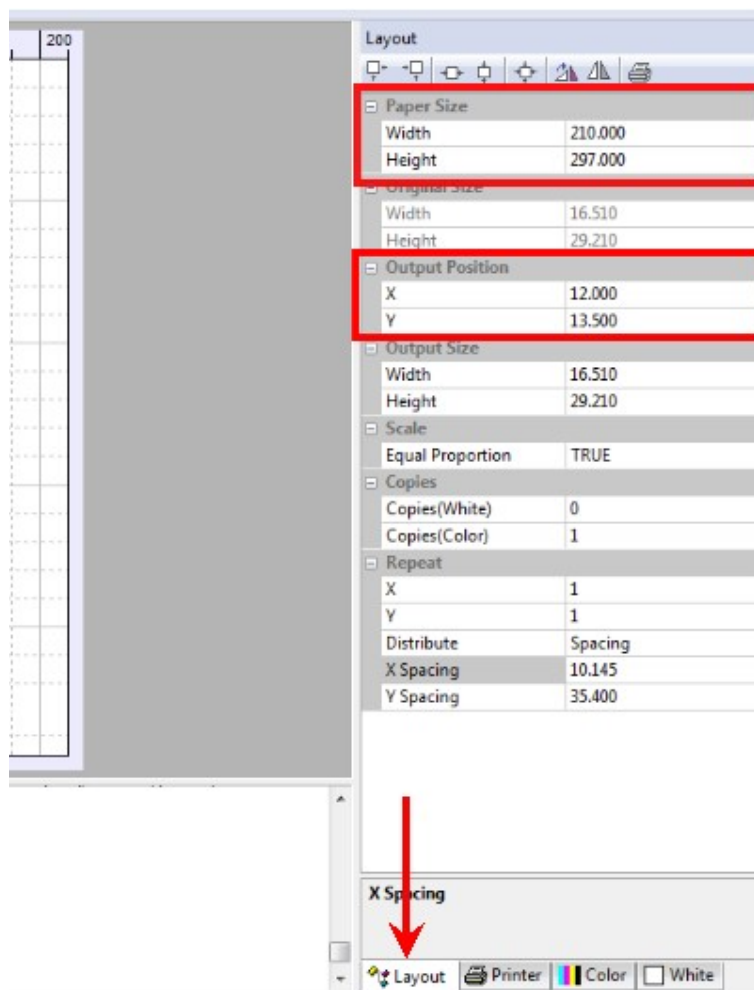
Navigate to the **Layout** tab in the RIP software.

Enter the total Paper Size of **210 x 297**

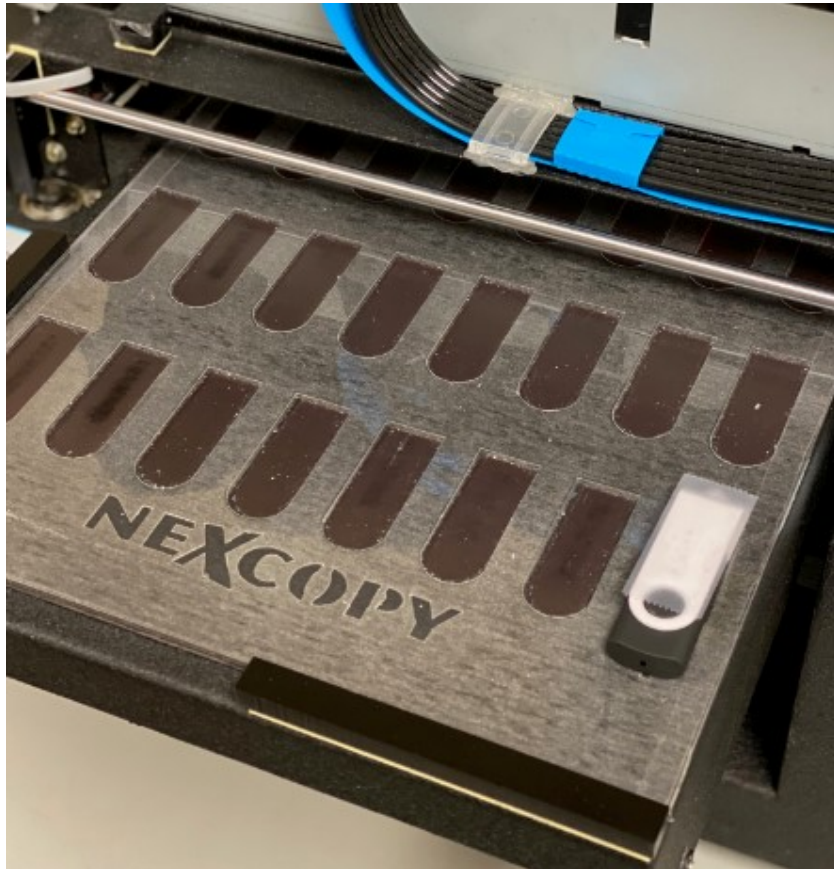
Enter the position values which tell the printer where you want the rectangles to be printed. By default the size of the printer tray is already entered, you need to adjust the position for the individual USB.

You need to enter values for the **Output Position X and Y** axis.

Be sure your values match the screen shot below.



Before clicking the print button in the software, **place a swivel drive in slot number 1, this would be the forward right position.** Place a piece of clear tape over the swivel drive so that you don't print directly to the swivel drive and waste a clip.



Press the **Backward** button to move the USB tray back completely. Then the screen will show **wait for printing**, (make sure link on light is green) then you can send a printing job from the computer. Click **Print** and let the printer do its thing. Once finished, you need to investigate how accurate the rectangle printed to the clip. You might need to adjust the X and Y positions to get that rectangle dead center to the USB clip.

For the **X position** a smaller number 11.75 will move the image **left**. A larger number 12.25 will move the image **right**. For the **Y position** a smaller number 13.25 will move the image **up** and a bigger number 13.75 will move the image **down**. You will see the image shift around as you enter values, and you will need to determine the best value for your setup.

Once you have your value adjusted, try printing to a full tray of swivel drives. You would do this by entering a different **Repeat** value. In our case, the swivel tray holds 40 flash drives, so the Repeat value would change to **8 and 5**, meaning we have eight positions in each row, and we have five rows of USB drives. See the screen shot below: Remember, send the USB printer tray all the way back before clicking the **Print** button in the RIP software.

mm

0

100

200

0

100

200

Layout

Paper Size

Width210.000

Height297.000

Original Size

Width16.510

Height29.210

Output Position

X12.000

Y13.500

Output Size

Width16.510

Height29.210

Scale

Equal ProportionTRUE

Copies

Copies(White)0

Copies(Color)1

Repeat

X8

Y5

Distribute

Spacing

X Spacing10.145

Y Spacing35.400

Y

The number of vertical repeat

Layout

Printer

Color

White

NUM

HEATER SETTINGS

The heater should be used for all production runs. In our experience the heater is best when set at **50%**. You may increase or decrease the heater setting based on your requirements. To adjust the heat level, press and hold the **Heater** button for about 3 seconds. Let go, and the LED should blink green. During this time, use the **arrow up** or **down** buttons to adjust the heat higher or lower. When the heat is set to the level you need, press the heater button again. The heater LED should now be solid green.

Be sure to turn off the heater after your production run for the day.



PRINTING TIPS:

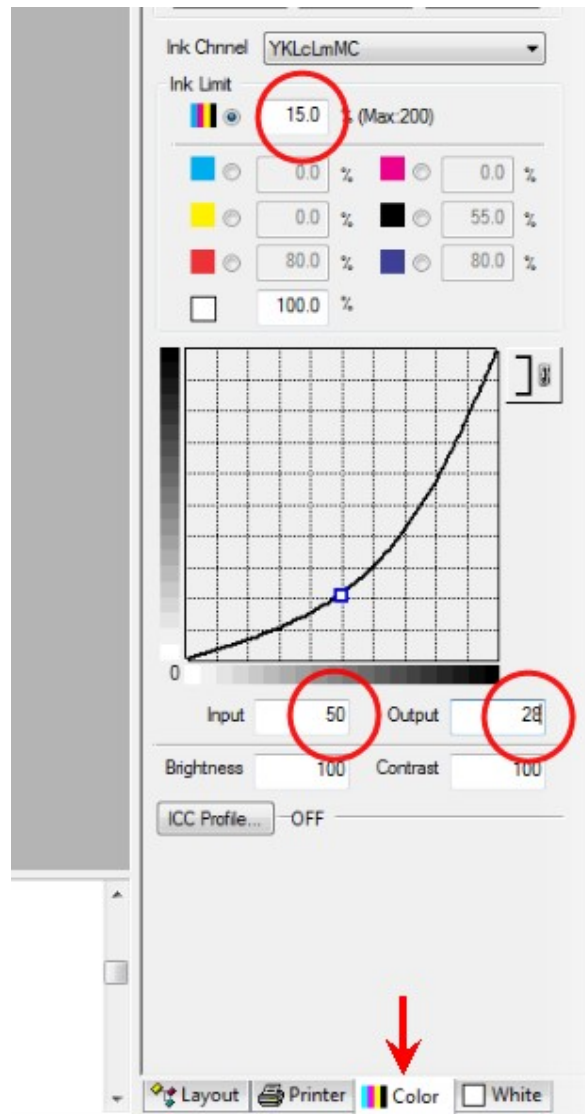
Each morning you plan to use the printer we suggest doing a Head Cleaning.

We suggest to always test print your image before a production run. If the ink is not flowing properly, perform a **Nozzle Check**. Run the **Head Cleaning** several times until the **Nozzle Check** is proper per the example in this manual.

We suggest putting clear tape on the product when printing a new image you have never printed before. Over time, you will learn to adjust the color levels of the ink and each image file may need its own color setting.

We suggest starting a notebook where you can make notes about color levels and ink levels when printing the job.

From our experience we have found a color setting at 15% with an Input of 50% and Output of 28% usually gets you very close to the intended color.



During the colder, winter months we suggest warming your product next to a space heater of some kind to get the product to room temperature. Heating metal product, like the swivel drive will greatly improve the dry and cure time of the ink.

We suggest to always using gloves when dealing with the ink. It is also a good idea to wear a coat or apron when dealing with the inks.

CLEANING AND HIBERNATION

CLEANING

From time to time, you may need to use **cleaning** or **protection** cartridges. The cleaning cartridges are used to clean out the print head. The protection cartridges are used when not using the printer for an extended period of time.

If you find the print head is a little clogged from the **Nozzle Check** and you have done the Nozzle Check many times it might then be required to put cleaning liquid through the system.

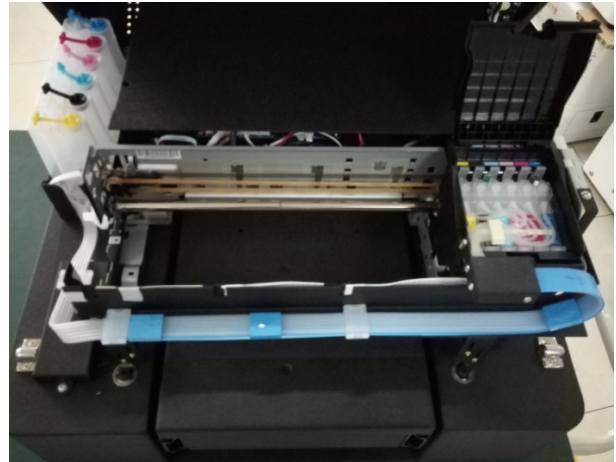
Find the **cleaning liquid** which shipped with your printer. Keeping the syringe vertical you may fill up the cleaning cartridge per the images below.



Once all the cartridges have the cleaning liquid you may run the **Head Cleaning** utility. Remove the ink cartridges from your printer system and replace with the cleaning cartridges. Run the **Head Cleaning** utility several times.

HIBERNATION

If you are planning to not use the printer for 7 days or more we suggest putting the **Protection liquid** into the system. The protection liquid is designed to protect the print head from getting clogged from the eco-solvent ink.



To put the Logo-EZ printer into hibernation do the following steps:

Perform the cleaning cycle as mentioned in the previous section. Once the cleaning cycle is done with the cleaning fluid, use the protection cartridges to protect the print head from getting clogged. Once all the cartridges have the protection liquid you may run the Head Cleaning utility. Remove the cleaning cartridges from your printer system and replace with the protection cartridges. Run the Head Cleaning utility several times.

PRINT HEAD AND WASTE BUCKET MAINTENANCE

Do not replace or use different ink types with this print head.

Avoid the print head hitting with your object. This could lead to complete damage of the print head, which is considered a consumable product under the warranty.

Keep the print head and carriage to the right of the system. If the print head carriage is not fully to the right, printing may not start or the system will become jammed and a print error will display.

Do not manually move the print head out to the left so the suction pad under the print head is exposed. You may use the **Ink** button to move the print head carriage.



Maintenance steps for ink pad below the print head.

Press the **Ink** button on the control panel one time. The print head carriage will move to the center location of the printer. At this time you can view the ink pad which sits below the print head. Drop some medical 95% ethyl alcohol or cleaning liquid to clean the pad and reduce buildup of eco-solvent inks on the pad.

Check the tube leading to the waste bucket for any obstruction each week to insure there is no ink overflow. It is also a good habit to check the waste ink jar every couple of days to insure it does not overflow. If the waste jar overflows you could cause damage to the Logo-EZ printer.



TROUBLE SHOOTING

The Reset light and the Refill ink light are flashing at same time.

Cause: Cables are not connected properly

Solution: Check the cables to insure they are seated properly.

The reset light and the Refill ink light are flashing alternately

Cause: Too many head cleanings in the counter system of the driver. This is a normal phenomenon as it helps monitor the level of ink in the waste tank.

Solution: use L805 program to reset waste counter.

The Refill ink light is on.

Cause: An ink cartridge is not being detected by the print head system.

Solution: Press the refill ink button until the print head moves to a center position. This frees up space to remove an ink cartridge and re-insert the ink cartridge. Then press refill ink button again, it will be released.



The reset light is on.



Cause: The tray is not fully back into the back position.

Solution: Press the **Backward** (>>) button so the tray moves fully backward. Go to your printer and cancel all print jobs in the queue. Press the **Reset** button one time and the error should clear and you are ready to print again.

NOTE: The tray must be fully back before printing. In addition, the display panel should say **Waiting for Printing** before a print job can start. In addition the link light should be green.

The reset red light and power green light are flashing at same time.

Solution: Restart the printer using the blue master power button. Make sure the tray is fully backward, screen shows Wait for printing before sending a printing job from the computer.

When the ink tank is not supply ink flow to the ink cartridges.

Solution: Check the hose lines carefully. Check the connection of each hose line to the ink cartridge of its color. Check the bottom of the large ink tank by visual inspection.

If the large ink tank looks muddy or not opaque it means you might have build up inside the ink tank. Drain the ink and use Q-tips or other cleaning product to remove any residue from the bottom of the ink tank. You will need to re-prime the ink system once your cleaning is done.

Attention:

Removing or installing CISS, please note that CISS ink tank and ink cartridges must remain parallel.

The waste ink bottle should be clean on a regular basis. It is possible the ink waste bottle could overflow and cause damage to the printer. As one option, you can modify another bottle (like a Windex bottle) and insert the waste hose into this larger container. This means the side right door would remain open.

MECHANICAL AND SECURITY INFORMATION

1. Please consider the following when operating the Logo-EZ printer:
2. Use only the type of power source indicated on the machine label.
3. If you do not use the printer for a long time, unplug the power cord from the electrical outlet.
4. Don't let the power cord become damaged or frayed.
5. Leave enough room around this machine and keep it flat.
6. Do not touch any cables inside this machine under normal circumstances.
7. Please try not to spill liquid on the printer.
8. Keep ink cartridges out of the reach of children.
9. Be careful when you change the ink cartridges or when you fill ink, please pay attention not to damage or wet the circuit board. It will burn the main board.
10. If ink gets on your skin, wash it off with soap and water. If it gets in your eyes, flush them immediately with water.
11. Don't put your hand inside this machine or touch any cartridges during printing.
12. Don't put the ink bottle filled with ink, it will lead to ink dropping when printing.

CONTACT INFORMATION

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If you feel technical support is needed please install TeamViewer on your host PC and call in with your Session ID and password.