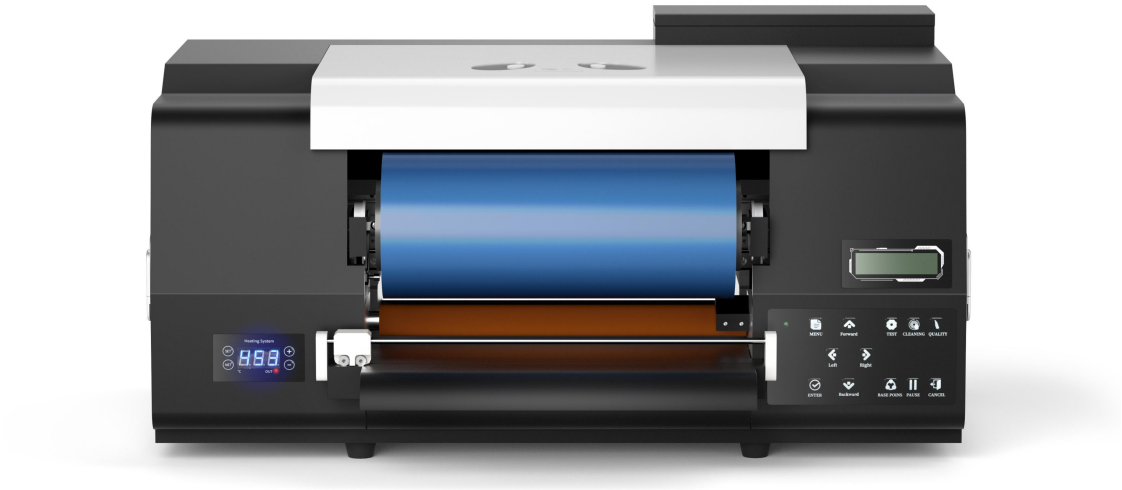
Mini UV DTF User Manual

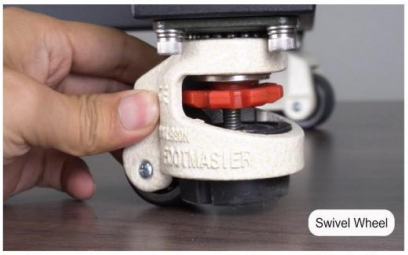


Set up and printing

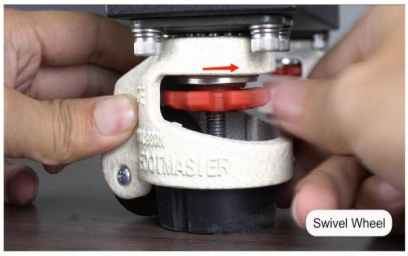
Software installation

Content

1. Assembly



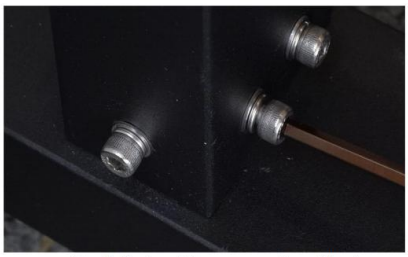
Step 1. Procolored has developed a printer stand for the latest UV DTF printer. It is equipped with 4 swivel wheels.



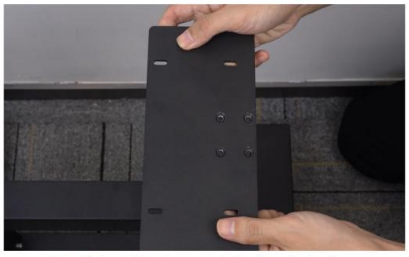
Step 2. By rotating the gear clockwise, the caster will switch from a rolling mode to a standing mode.

Step 3. Install the stand onto the stand base.

Step 4. There are 12 hex screws with washers on the stand base.

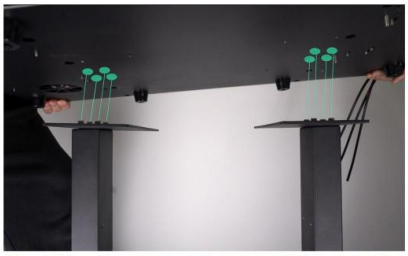


Step 5. Fasten all the screws with an Allen key.



Step 6. Install the trays onto the bracket using screws.

Step 7. There are a total of two trays and eight hex screws with washers.



Step 8. Place the printer onto the trays, making sure to align screw heads on the trays with the holes on the machine.

Step 9. Use hex screws without washers to secure the printer.

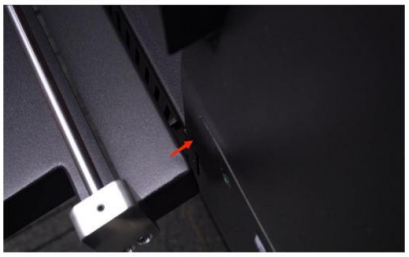
Step 10. There are 8 hex screws in total.

1. Assembly

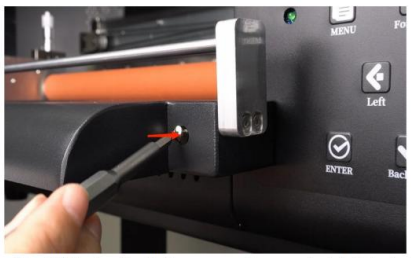
Step 11. Take off 2 Phillips screws from the left film cutter position.

Step 12. Do the same to the right side.

Step 13. Install the cutter.



Step 14. Hook the cutter at the film exit.

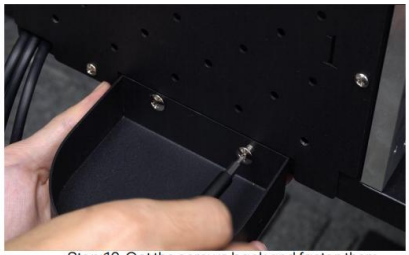


Step 15. Fasten the Phillips screws to screw hole hidden inside.

Step 16. Now we go to the back of the printer.

Step 17. Loose two screws here.

Step 18. Install a tray for ink waste bottle.



Step 19. Get the screws back and fasten them.

Step 20. Open the front cover.

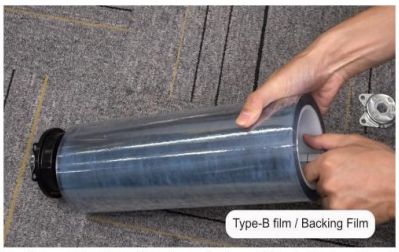
1. Assembly

Step 21. Here we notice a metal fixing plate, it secures the drive belt during transportation.

Step 22. Loose the screws and get the plates removed. If a printer works with the plates on the belt, the belt may get deformed.

2. Film Rolls

Step 1. Now we start the film rolls installation. First get the plastic holder of one side off.



Step 2. Load the B film into the roller bar. B film is the backing film of UV DTF printing.

Step 3. Push the plastic support into the film roll.

Step 4. Loose the screws on the plastic supports.

Step 5. The top ends of the roller bar② should be flush with the bearing ①.

Step 6. Make the 2 bearings symmetrical on both sides and keep the film roll centered.

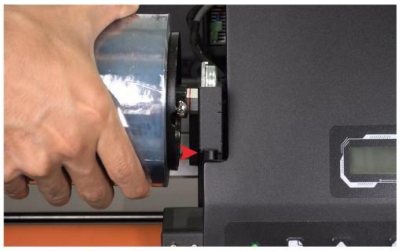
Step 7. Fasten the screws on the plastic supports

Step 8. Now we go on to install A film, also called base film in UV DTF printing.

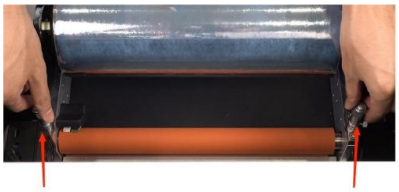
Step 9. The installation procedures are quite the same. One important point is to keep the 2 bearings symmetrical and the A film roll in the middle.

Step 10. Now load the Type-B film roll onto the printer.

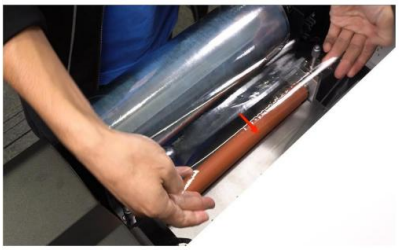
2. Film Rolls



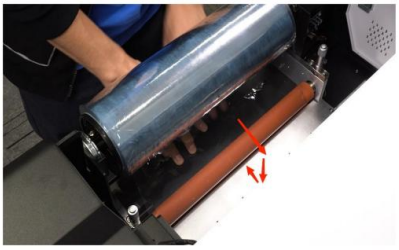
Step 11. Insert the bearing into the right slot completely.



Step 12. Loosen the heating roller by turning the adjustment thumb screws counterclockwise at both ends.



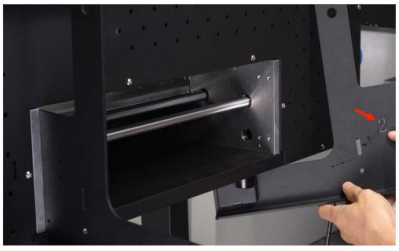
Step 13. Pay attention to the direction in which the film is being led.



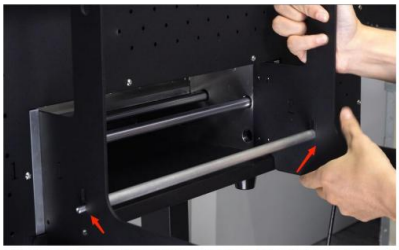
Step 14. The film should first go towards the printer, then go over the orange heating roller, wrapping it and finally go forward opposite the printer.

Step 15. Now we install brackets for Type-A film roll. First get the bracket marked with number 1.

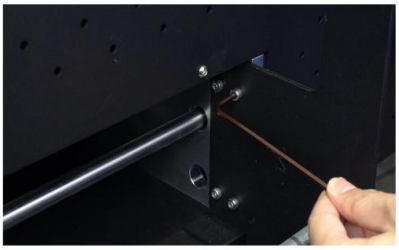
Step 16. Fasten it on the left with 4 hex screws.



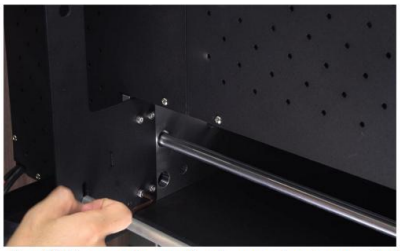
Step 17. Now we fetch bracket marked with number 2.



Step 18. Before installing the number 2 bracket, insert the press bar into the pre-made hole positions.

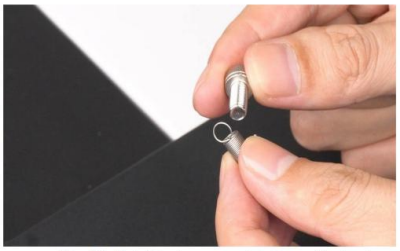


Step 19. And then fasten the screws of number 2 bracket.

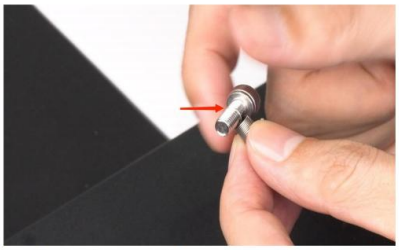


Step 20. The press bar applies downward pressure on the film to make the film feeding more stable.

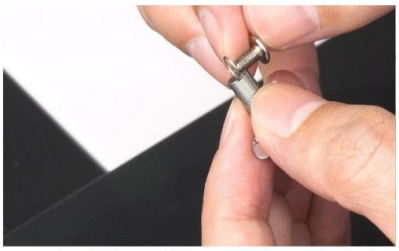
2. Film Rolls



Step 21. Twist the hex screw into the spring hook.



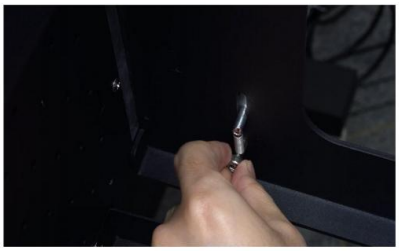
Step 22. Keep twisting until the hook is positioned at two-thirds of the length of the hex screw.



Step 23. Insert a Phillips screws into another hook.

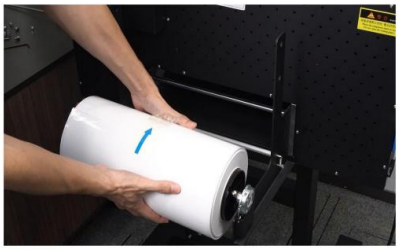
Step 24. Twist it till the end.

Step 25. Twist the Phillips screw tightly into the press bar.



Step 26. But loosely twist the Hex screw onto the bracket, no need to secure it tightly.

Step 27. Do the same thing at the right end of the press bar.



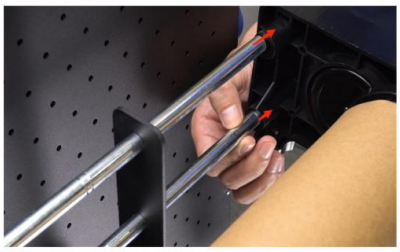
Step 28. Now load the Type-A film roll.

Step 29. Use 2 wing screws to secure the bearings on both sides of the film roll.

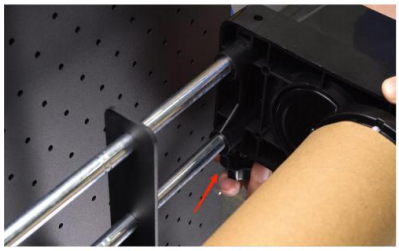
Step 30. Now insert two bars. These 2 bars are for the film rewinder.

2. Film Rolls

Step 31. Insert the cardboard tube onto the rewinder. The protective film on the Type-A film will be wound onto the cardboard tube.



Step 32. Now insert the 2 bars into slots on rewinder.



Step 33. Fasten the rotatory knob of the right side.

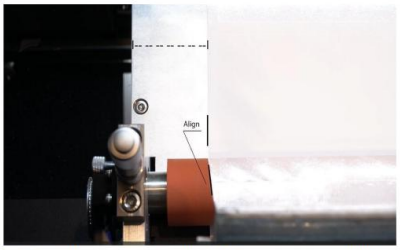
Step 34. Do the same on the left side.

Step 35. Now we load A film in. Pay attention to the direction of the film leading edge.

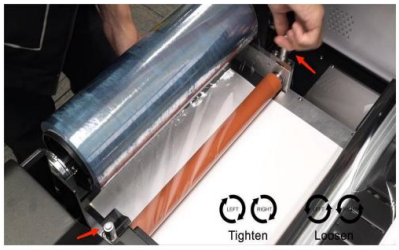
Step 36. Guide the film sheet to go under the press bar and the first alignment bar and go over the second alignment bar.

Step 37. Peel off the protective film from the A film/base film and pass the base film through the heating roller.

Step 38. There is a sticky adhesive layer on the base film, watch out not to stick it with any parts of the printer.

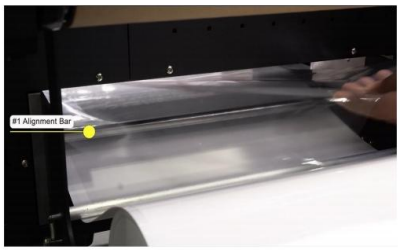


Step 39. Make sure the A film/base film goes under and align with the B film/backing film.



Step 40. Stay pulling the combined film sheets and tighten up the heating roller by clockwise rotating the thumb screws.

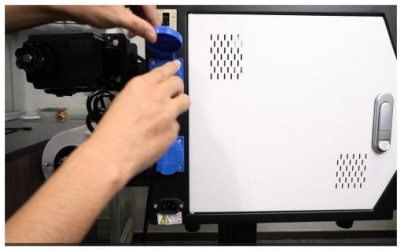
2. Film Rolls



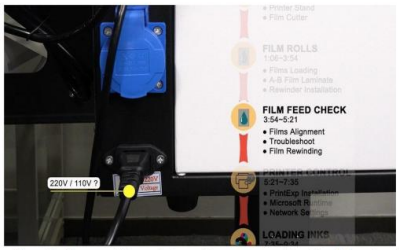
Step 41. Retract the protective film, pass it over the #1 alignment bar.

Step 42. Roll it up on the roll rewinder.

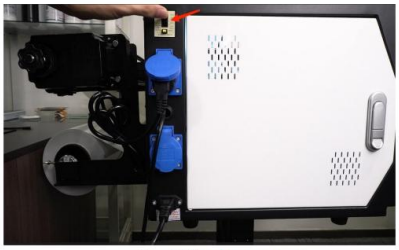
3. Film Feed Check



Step 1. Plug the film rewinder with the electrical outlet.



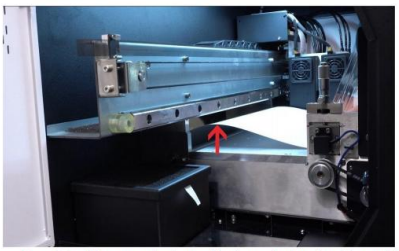
Step 2. Connect the printer with power cable. Double check your electricity source matches the required voltage of the machine, otherwise the main-board of the printer will get burned.



Step 3. Turn the power on.

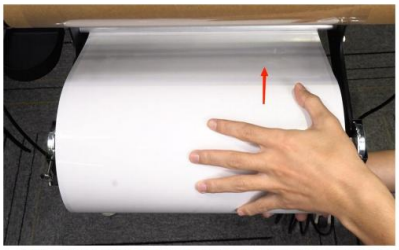
Step 4. To open the side door, first slide the bottom button down, then the upper handle will pop out automatically.

Step 5. Rotate the upper handle to the left.



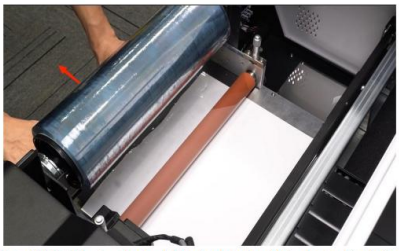
Step 6. In this case, the base film is not laying flat, it is arching.

Step 7. We need to check whether the wing screws have secured the roller bearings.



Step 8. Slightly roll back the base film to make it straightened.

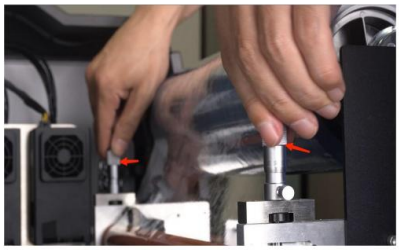
Step 9. Slightly loose the thumb screws on the heating roller.



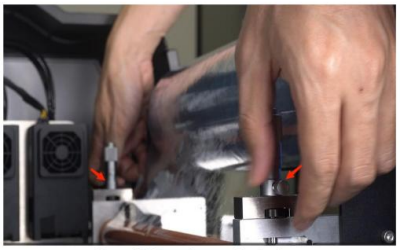
Step 10. Pull the laminated film forward until the base film is flat on the printing platform.

3. Film Feed Check

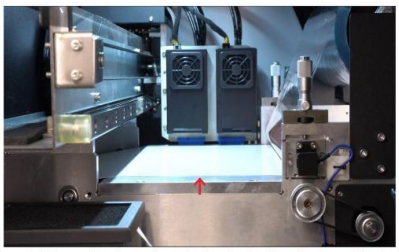
Step 11. Both ends of the heating roller need to maintain the same tension to prevent the base film from gradually deviating.



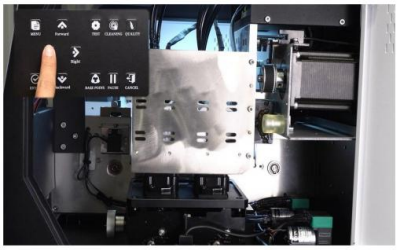
Step 12. Rotate the two thumb screws to set the tension.



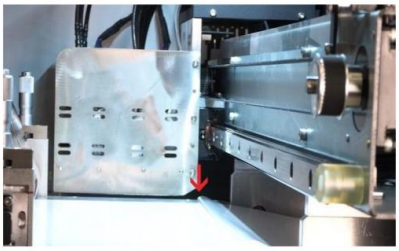
Step 13. Then fasten the lock screws.



Step 14. Press Backward, and check whether the base film is flat and not deviating.



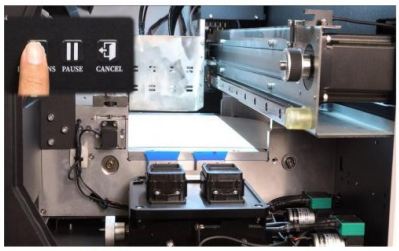
Step 15. Now at the same time move the print head assembly to the far left, we're going to do the rewinding checking.



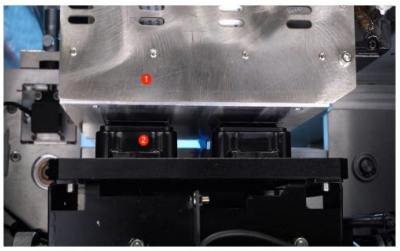
Step 16. In this case, the protective film is not automatically retracted. That means the film rewinder doesn't provide enough torque.

Step 17.Check the electric supply of the rewinder.

Step 18. Twist the adjustment knob to increase rolling torque. Make sure the device provides the very appropriate torque to tighten the retracted protective film.



Step 19. After film checking, press Base Point button to return the print-head assembly.

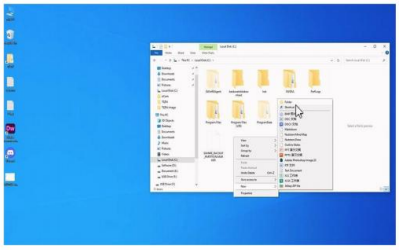


Step 20. Nozzles should be sealed up in the capping station to avoid overmuch light exposure.

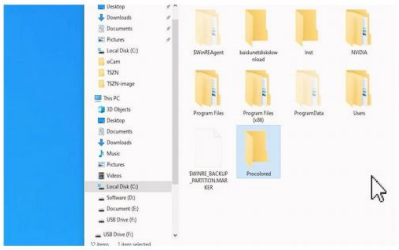
4. Printer Control

Step 1. Cut off the cable tie and get the USB drive. It stores with video guidance and printer software.

Step 2. Besides USB drive, there is also a blue RIP dongle, it's needed every time you use the RIP software. And we also have a USB 3 adapter for you.It is capable of fast data transfer. If the WAN port of your computer reach a speed of 1 Gigabit per second, you don't need this USB adapter.

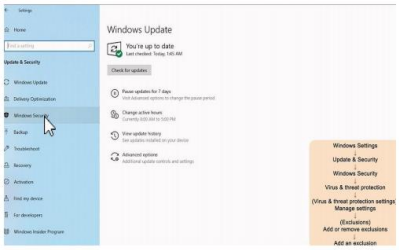


Step 3. Create a new folder in *C drive* .



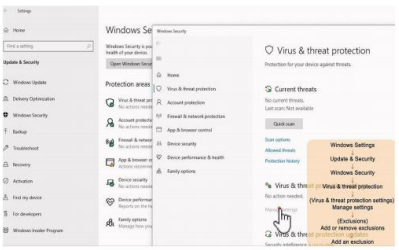
Step 4. Here we name it as 'Procolored'.

Step 5. Press Win and I to enter the windows *update & security* .

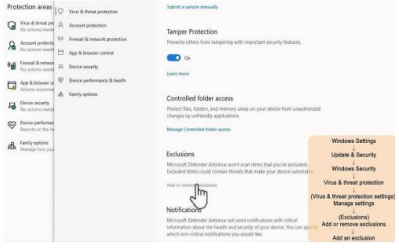


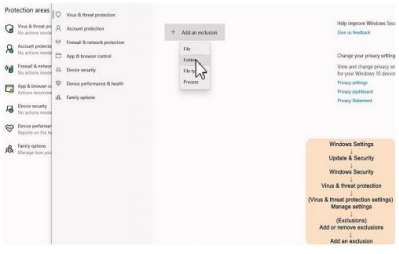
Step 6. Enter *Windows Security* .

Step 7. Enter *Virus & threat Protection* .



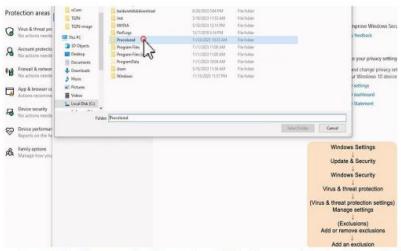
Step 8. Choose *Manage settings* .





4. Printer Control

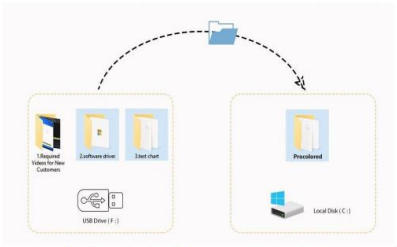
Step 9. Scroll down and choose *Add or remove exclusions*.



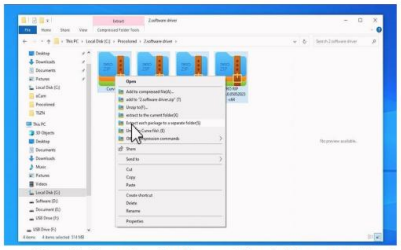
Step 10. Add a new Folder to this trusted list.

Step 11. Choose the"Procolored"folder we just built in C Drive.

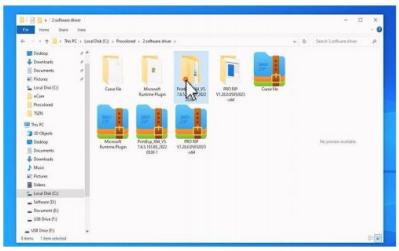
Step 12. Make sure it's been added.



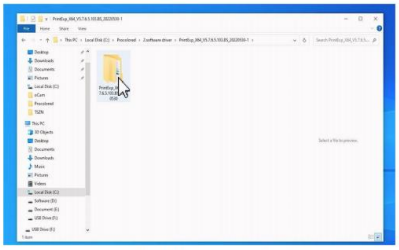
Step 13. Move the two folders marked as 2 and 3, from USB driver to Procolored folder in C Drive.



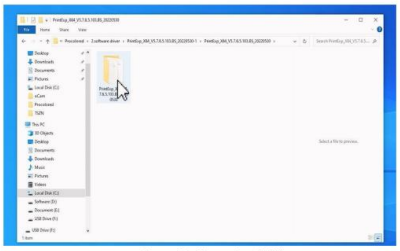
Step 14. Open the *2.software driver folder*, extract the four folders.



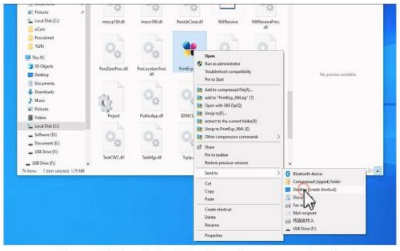
Step 15. Enter PrintExp folder.



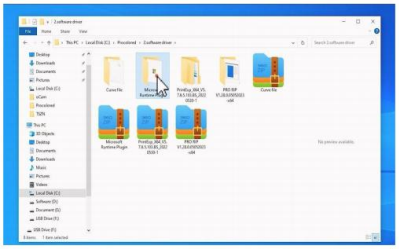
Step 16. Yes, keep clicking.



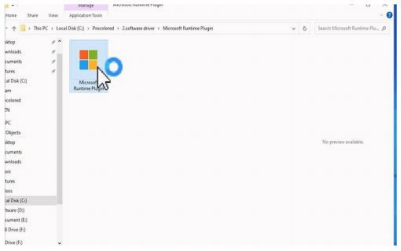
Step 17. Enter the folder.



Step 18. Send the PrintExp shortcut to the desktop.

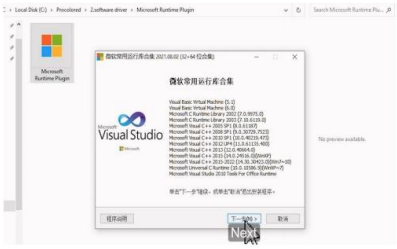


Step 19. Now we go back to *2.software driver folder*, and enter *Microsoft Runtime Plugin*

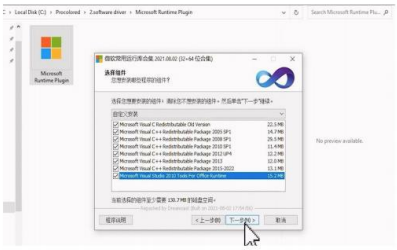


Step 20. Double click.

4. Printer Control



Step 21. Click 下一步 [N] to continue the installation.

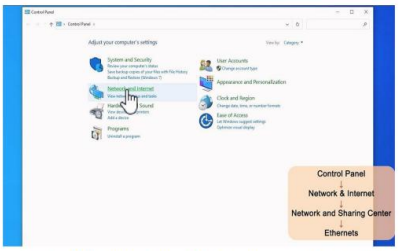


Step 22. Click 下一步 [N] again.

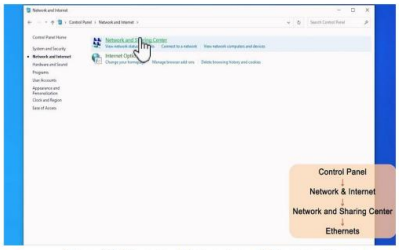
Step 23. Click 完成 [F].

Step 24. Press Win and R to open the Run window

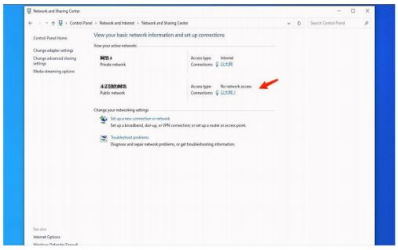
Step 25. Input "control" and click OK.



Step 26. Now we've entered the *control panel*. Enter *Network & Internet*.

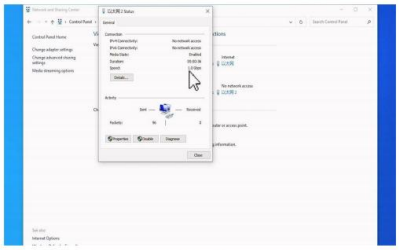


Step 27. Choose *Network and Sharing Center*.



Step 28. 以太网 [2], the public network with no network access showed here, is from the printer.

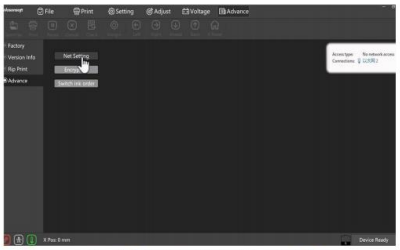
Step 29. If you are not sure which network is from the printer, you can unplug and reconnect the data cable of the printer. The printer Ethernet will pop up again.



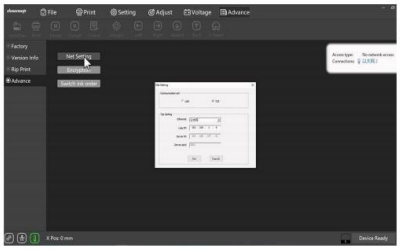
Step 30. Click the Ethernet name to check out the network speed. The speed should be no lower than 1 Gigabit per second.

4. Printer Control

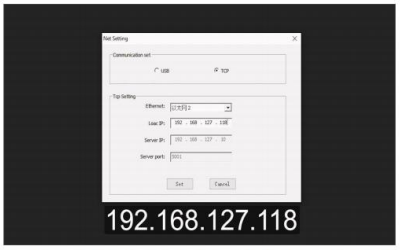
Step 31. Open the Print Control software.



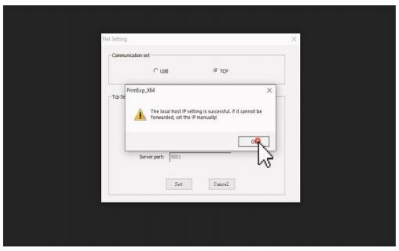
Step 32. Find the *Net settings* in *Advance* .



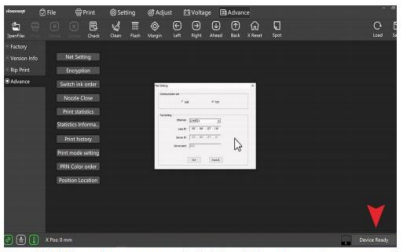
Step 33. Choose Communication set - TCP, Ethernet - 以太网2.



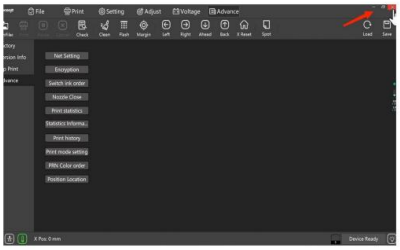
Step 34. Input below numbers 192.168.127.118 in Loac IP. Then click Set.



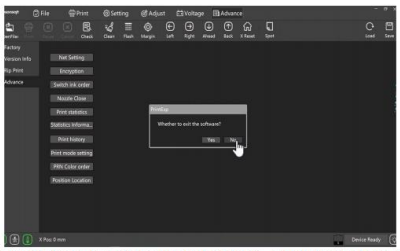
Step 35. Click OK.



Step 36. When the process is finished, the prompt message "Device Ready" will show up at the right lower corner.

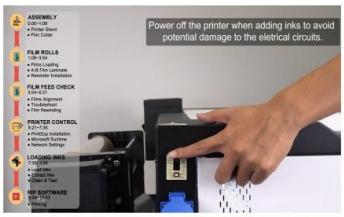


Step 37. Don't directly close the PrintExp software.



Step38. Keep the printer control program running in the background when using the printer.

5. Loading Inks



Step 1. Power off the printer before filling the ink tanks.

Step 2. The ink tank locates at the right back of the printer.

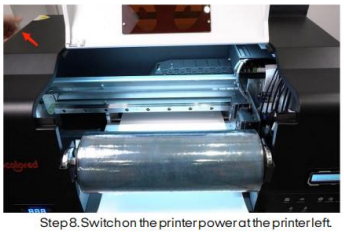
Step 3. Remove the tank lid.

Step 4. Before adding inks, give them a good shake.

Step 5. Cut off the Aluminum foil seal of the ink bottle.

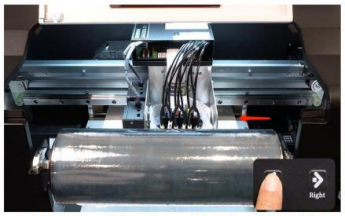
Step 6. There are 6 ink containers, C refers to cyan ink, M refers to magenta ink, Y refers to yellow ink, K refers to black ink and W refers to white ink and V refers to varnish.

Step 7. Add corresponding inks into these containers. If you pour the fault ink into a tank, you need to empty the ink from the tank with syringe and ink pumping tube.



Step 8. Switch on the printer power at the printer left.

Step 9. Now the printer in initializing.



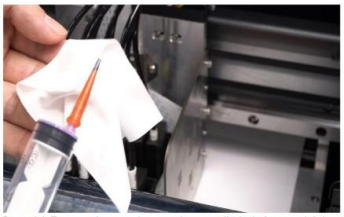
Step 10. Move the print head assembly to the middle, NOW shut down power.

5. Loading Inks

Step 11. Don't take off all the ink cartridges at the same time. Some ink cartridges are interconnected, air will enter other ink tubes.

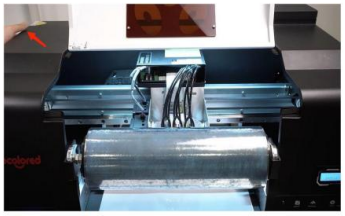
Step 12. Don't turn the ink cartridge downward when extracting ink, this will cause many bubbles in the ink. Always hold a cartridge UPWARD.

Step 13. Take off only one cartridge at a time and turn it upward to extract 5 to 10 millimeters of ink until the cartridge is free of air. And gently put it back after extracting.

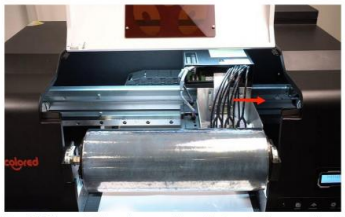


Step 14. Remember to change the needle hub for each ink to avoid color mixing.

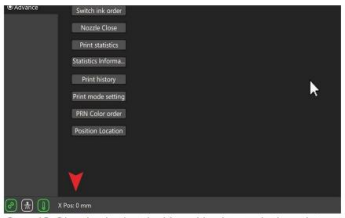
Step 15. Go on extracting from all the cartridges. Pay attention to the positions of color ink cartridges. For example, these 2 white inks are separated by yellow.



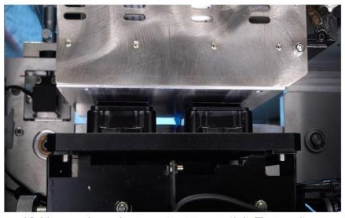
Step 16. Initialize the printer again.



Step 17. The print-head assembly will return to the capping station.



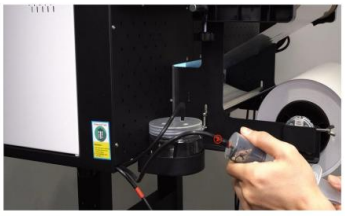
Step 18. Check whether the X position is zero in the printer control program.



Step 19. Now we're going to extract waste ink. First make sure that the print head assembly sealed up by the capping station.

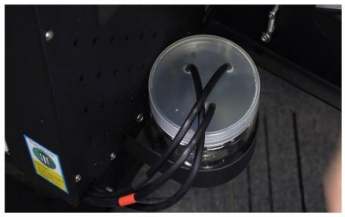
Step 20. The printer comes with 3 waste ink tubes. ① The one without label is for waste ink that dropped off from the print-head parking position.

5. Loading Inks

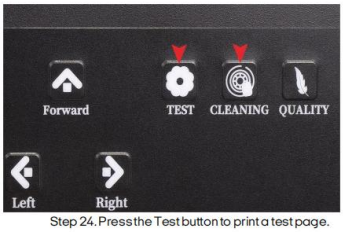


Step 21. ②The one with black label is for inks of all the other colors.

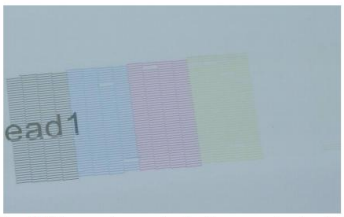
Step 22. ③ the one with red label is for varnish waste.



Step 23. Extract 5 to 10 millimeters of ink out of each labeled tube, then put the tubes back to its place.

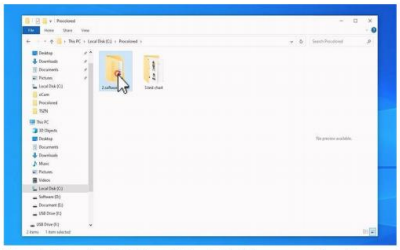


Step 24. Press the Test button to print a test page.

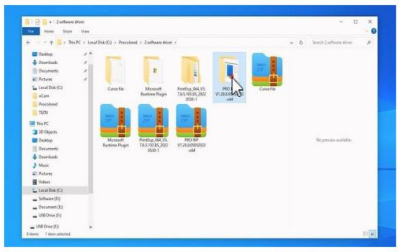


Step 25. If there are too many broken lines, press the clean button to clean the print-head.

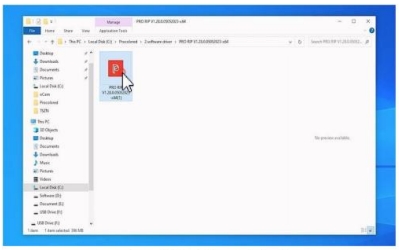
6. RIP Software



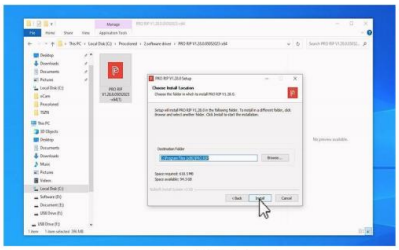
Step 1. Enter the DTF Pro folder in C Drive, open *2.software driver.*



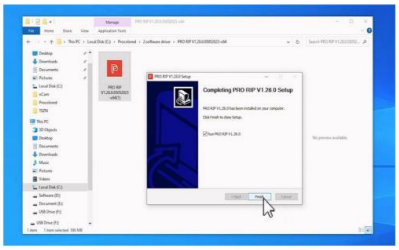
Step 2. Enter folder of PRO RIP.



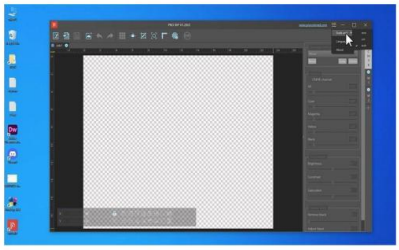
Step 3. Double click the icon.



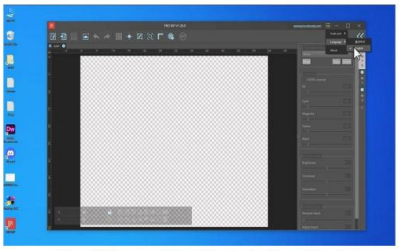
Step 4. Click install.



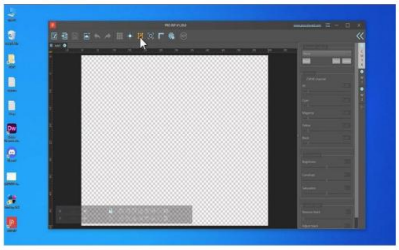
Step 5. Click finish.



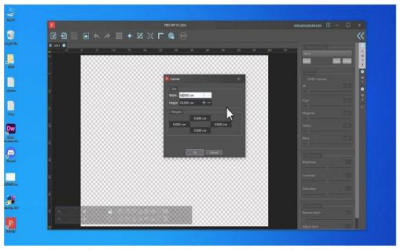
Step 6. Now we open PRO RIP software. Choose the strip button on the right top corner. You can choose the scale unit here.



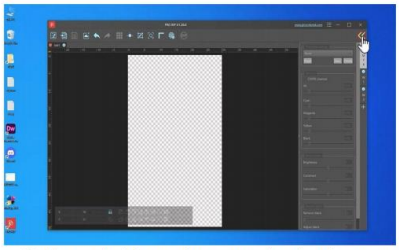
Step 7. You can also change the language here.



Step 8. Choose the square button to adjust the canvas.

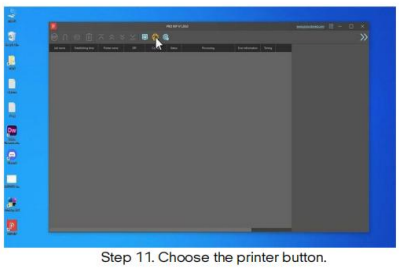


Step 9. Set the canvas width according to the film size [set as W30.000cm * H50.000cm here]

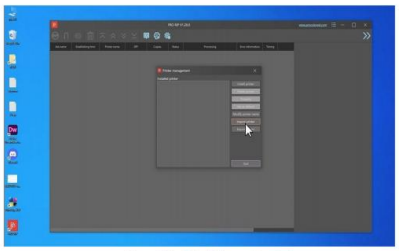


Step 10. Choose the left arrow button to go into the print management center.

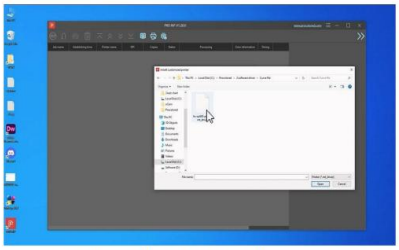
6. RIP Software



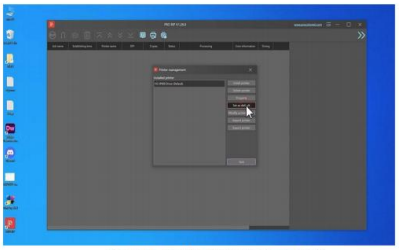
Step 11. Choose the printer button.



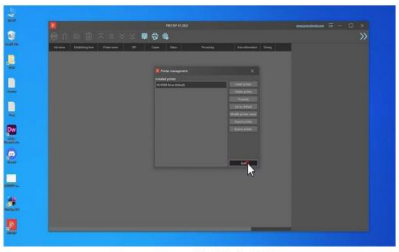
Step 12. Click import printer.



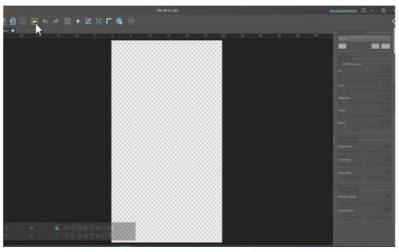
Step 13. Follow below to choose DTF Pro curve file: *C Drive-Procolored-2.software driver-Curve file*



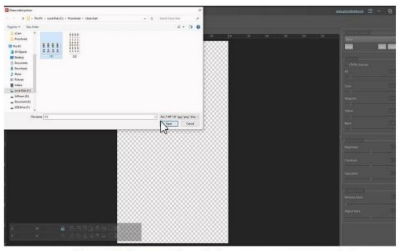
Step 14. Set the printer as default.



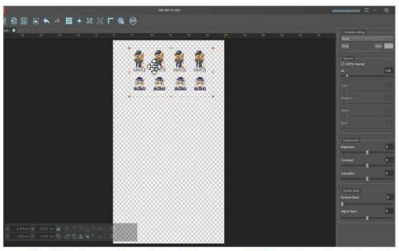
Step 15. Click Quit.



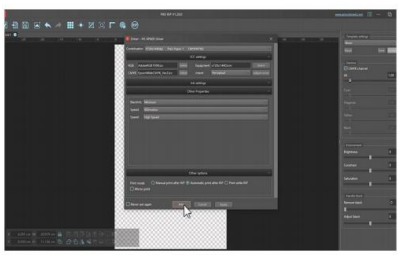
Step 16. Choose the picture button.



Step 17. Import the picture you want to print.



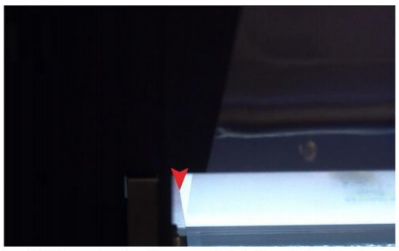
Step 18. After importing the picture, we HAVE TO adjust the picture size to fit the film size. Move your mouse to the picture corner and drag when it turns into a double-sided arrow.



Step 19. Disable the mirror print mode. It is not needed in UV DTF printing.

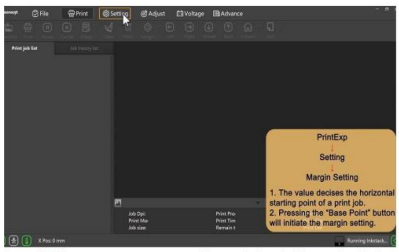
Step 20. The base film is sticky, it requires constant supervision during printing.

6. RIP Software

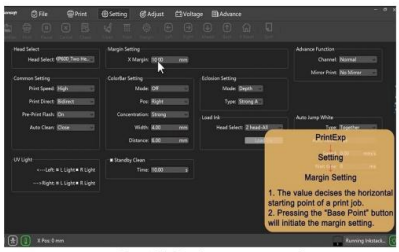


Step 21. The arched up film may stick to the printing heads and cause printing failure.

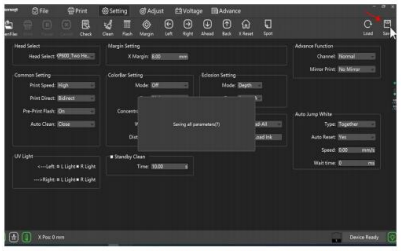
Step 22. The blue light is rather glaring, you can observe the printing results through the light-filtering window during the printing process.



Step 23. If you come across with a printing failure, check the margin settings in PrintExp software.



Step 24. Set it to a proper value.



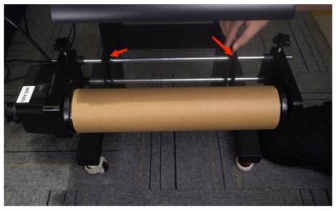
Step 25. Click save. Now we've completed the whole UV DTF mini setting up process!

7. Printer Stand

Step 1. Install the rewinder bracket on the stand.

Step 2. There will be 8 hex screws with washers needed, 4 for each side.

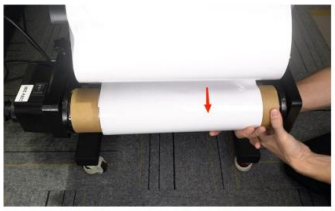
Step 3. Fasten the hex screws.



Step 4. Twist the wing screws .

Step 5. And twist the knobs to fasten the position of the rewinder.

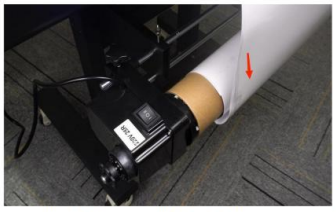
Step 6. Use some adhesive tape to secure the leading edge of the laminated film.



Step 7. Rotate the rewinder to give it a correct direction.

Step 8. Plug the rewinder in.

Step 9. Now power on the rewinder to check how it works.



Step 10. We can see the laminated films can be rolled up automatically. If it doesn't, adjust the torque

8. Daily Operation

Opening Procedures and Printing Steps:

1] Turn on the power of the machine, open the waste film collector switch, check the amount of ink in the ink bottle

2] Clean the printhead, print the nozzle status map

3] Turn on the flash function in software

4] Print the picture

Closing Procedures and Maintenance Steps:

1] Printer is in a reset state, X pos value is 0mm in the software

2] Close the flash function, the printhead and ink pad to restore the closed state;

3] Close the print software

4] Turn off the machine power, turn off the waste film collector switch

Environmental requirements for daily use:

1] Keep the temperature above 22℃ [71 ° F], the temperature is too low will affect the activity and fluidity of the ink

2] Keep the humidity above 50%, dry environment will accelerate the ink solvent evaporation, more likely to lead to clogging

3] Oven baking will produce odor, it is recommended that it is placed in a ventilated location to reduce odor

4] machine and ink can not be direct sunlight, otherwise it may cause ink deterioration

9. Notice and Tips

1. Do not move or touch the film when the printer is in operation. This can cause a head strike.
2. Please never leave any liquid on top of the printer cover. A small spill can damage the printer.
3. Do not expose the ink, film, and powder under direct sunlight, or a humid area. Avoid high humidity, high temperature, and direct sunlight. These will deteriorate the quality of the film, powder, and ink and may cause an issue. Use silica packs, and keep the consumables in containers with a lid.
4. Make sure you park the printhead carriage to the capping station (back to home position) at the end of the day, leaving it not sitting properly on the cap can dry up the head and clog the system easily. If you are not sure whether the printhead is in position, perform a head cleaning (from the printer) to move the printhead back to the correct position
5. Make sure the film is horizontal and centered on the printing platform. Otherwise the film creases causing a head strike and damage the printer.
6. Try to use the printer at least every 3 - 4 days. Use the moisturizer to protect the print head when not in use on holidays.
7. Not using the printer for more than 2 weeks can cause the water-based ink to dry up which clogs the head. If there are no print jobs available, please at least print a test strip to create a print job. Daily maintenance is still recommended.
8. Use the correct consumables. Not using proper consumables or using other branded films, ink, powder, cleaning solution, swab, etc can damage the printer. Mixing of different brands of consumables, such as ink mixing, may cause blockage of the print head.
9. Refill the ink in a timely manner and do not let the ink level drop below one-third. Before adding new ink to the machine, be sure to shake the ink bottle several times to stop the ink from settling before adding. Seal the remaining ink properly and store it in a well-ventilated environment protected from light.
10. Use Procolored original printheads. Other low-cost, substandard printheads are usually refurbished through an aggressive cleaning process and have a short life span and the potential to damage the printer's motherboard.
11. Do not use a syringe to manually flush the print head. If the liquid comes into contact with the print head cable, it may damage the print head and the motherboard.
12. Printer out of service for more than half an hour, perform a printhead cleaning task, and then continue to print, to avoid the situation of broken ink.
13. Do not use oversized syringes for ink extraction, as oversized syringes can cause damage to the printhead due to excessive suction.
14. Do not manually inject cleaning solution from the nozzle position of the printhead with a syringe, as this operation may easily cause damage to the printhead and the motherboard.
15. Do not modify the machine yourself. Modification of the machine automatically voids the Procolored warranty and the machine is no longer warranted any more.
16. Please follow the maintenance schedule. Not following the maintenance can cause head clogs or serious printer damage.

10.Maintenance Plan

	Daily Beginning of the Day	Daily End of the Day	Weekly	As Needed
Shake White Bottles	1			
Nozzle Check	1			
Head Cleaning	1			
Fill Ink				1
Clean Around Head		1		
Clean Wiper Blades		1		
Clean Capping Station Top		1		
Flush Capping Station Top		1		
Empty Waste Tank			1	
Clean Pinch Roller			1	Every New film
Clean Encoder Strip			1	
Grease Carriage Rail				1
Rinse Ink Container				1
Clean Encoder disk				1

Maintenance Schedule

1. Shake White Ink Bottle: To prevent white ink from settling, please shake the white ink bottle every day.
2. Nozzle Test (Check): Perform a nozzle test before sending a print ob to ensure that you get good quality prints every time. Poor nozzles result in banding or overspray in the prints. Continue Printing if you can get 90% of the channels nozzles.
3. Head Cleaning: Perform this task when you are getting less than 90% of the channels nozzles. Perform Head cleaning is crucial to drain the capping station top and wipe the printhead surface for nozzle test and or printing. After the head cleaning is done,perform a nozzle check to see if you can get 90% of the channels nozzles.
4. Power ink flush: Perform this when you notice any big missing nozzles or more than 50% of channels are missing, use a syringe to draw 5 ml of ink from the ink sac and 10-20 ml of ink from the waste ink tube, and then perform a Power Ink Flush task.
5. Clean Around the Head: It's important to clean around the head for any build-up inks at the end of every day. Build-up inks can get on to the printhead from the wiper and can potentially damage the printhead.
6. Clean Wiper Blade:Same as cleaning around the head, making sure the wiper blade is cleaned. It is very important to obtain a good nozzle check. Any residue buildup can damage the printhead and your head cleaning may not be effective.
7. Clean Capping Station Cap Top: Keeping the capping station cap tops clean is one of the

most important tasks.Your head cleaning may not be effective.Your printer may not draw out the proper amount of ink if there are a lot of build-up inks.

8. Flush Capping Station Cap with Cleaning Solution: Fill cleaning solution on the cap after the end of the day maintenance and press the clean button to flush out the cap immediately.This will ensure the printhead is sitting on the cap.

9. Regularly check whether the ink sac is broken or leakage of ink occurs, if so, please replace the ink sac in a timely manner to avoid ink leakage to the print head, causing the print head to burn out.

10. Empty Waste Tank: Regularly check the waste ink bottle. Waste ink will overflow resulting in a dirty work surface, Please ensure that the waste ink lines are not touching the waste ink.It may cause negative pressure, which can cause the waste ink to reverse the ink discharge resulting in the printhead, circuit board into the ink, damage to the print head, the motherboard and other components.

11. Clean Pinch Rollers: Clean pinch rollers ensure that you have a consistent pull on the film.Film residues can make the roller miss the turns which can cause misalignment on the White and CMYK heads.Use a dry microfiber cloth or lint-free wipe to clean the rollers. Weekly-clean one side, As you replace the film to new, clean 360 degrees.

12. Clean Encoder Strip:The encoder strip can be cleaned with isopropyl alcohol,simply wipe both sides/check for any dents or ink splash.

13. Grease Carriage Rail:If you hear squeaky noise,it's time to grease the rails.Use heat-resistant gel/paste-based grease. **DO NOT USE A SPRAYER.**

14. Rinse the Ink Containers:Ink can settle inside the container, please communicate with a Procolored tech before performing this task.

15. Clean the paper roller and paper platen shaft: Use a lint-free cloth moistened with alcohol to clean the residual glue on the paper platen wheel and paper platen shaft. The accumulated glue residue can easily cause the film to lift and scrape onto the print head.

16. Clean the printing platform: Use a lint-free cloth moistened with alcohol to clean the printing platform. Residual glue will scratch the film and affect the printing effect.

10. Tech Support Contact Info

After-sales contact information:

E-mail/Skype: afterservice@procolored.com

Hotline: +1 9497384529

Facebook user group: https://www.facebook.com/groups/1944106292232000

Working Hours:

Pacific Time (PT): From 5:00 PM on

Central Time (CT): From 7:00 PM on

Eastern Time (ET): From 8:00 PM on

Warranty Policy

1. Warranty Coverage

1.1 Mainboard

● Mainboard for dual-head printer is not covered by warranty. Customers may send them in for repairs at their own expense.

● Mainboard for single-head printer is covered by a 6-month warranty period since printer purchase. Within this warranty period, you are eligible for one replacement.

1.2. Print Head and Related Components

No warranty is provided for print heads or components that may be damaged due to contact with ink. However, after warranty registration, the following printheads are covered by a 6-month warranty period since printer purchase, limited to one replacement: [L1800, R1390, L800, L805, TX800, XP600].

1.3 Warranty for Other Accessories

Other accessories are covered by a 12-month warranty period since printer purchase.

1.4 Disclaimer

● The warranty for the ink-contact components requires the printer exclusively use Procolored inks. Warranty coverage does not include the printhead blockage resulting from the use of inks from other brands.

● The damage must not be caused by user negligence or misuse.

● The damage must be confirmed by our customer service team or engineers as non-user-induced.

2. Warranty Costs

If the component within warranty period is damaged within one month of printer receiving, we will bear the cost of component and covering the shipping fees. For damage reported after one month of printer receipt, we will cover the cost of component but will not cover the shipping fees.

Return Policy

If the printer is received within one week and no ink is added, it can be shipped back in its original packaging, and returns and exchanges are accepted. If any ink has been added into the printer, we can not process returns or exchanges.

this warranty policy is subject to change, and any modifications will be posted on our website [https://www.procolored.com/pages/warranty-policy]. For any warranty claims or inquiries, please contact our customer service team. For all customers who have purchased Procolored printer equipment but are beyond the 12-month warranty period, we offer extended warranty services, which include two programs: Remote Expert Service and Extended Warranty.