## New machine usage guidelines

## Brief guidelines

- 1. Assemble the machine (don't install the nozzle)
- 2. Visual inspection, cleaning iron or aluminum scraps
- 3. Check if the screws are loose, the circuit if is plugged in the socket
- 4. Measure the voltage among firewire, ground wire and zero wire by a multimeter
- 5. Turn on the power
- 6. Observe reset if is normal after power-on
- 7. Check the control function for up and down capping station on key board
- 8. Check the heating control on key board
- 9. Check the fan control on key board
- 10. Check the cloth up and down controlling on key board
- 11. Open the self-test
- 12. Computer configuration and system recommendations
- 13. MainTop software installation (do not connect the USB cable to the machine)
- 14. Install the print control software
- 15. Stop the self-test
- 16. Connected USB cable from the computer to the machine, and install the motherboard USB drive
- 17. Adjust the position of the wiper
- 18. Check nozzle voltage
- 19. Print without nozzle
- 20. Establish the ink supply system
- 21. Install print head
- 22. Set ink order: Y(Y) M(M) C(C) K(K)
- 23. Precautions of nozzle check
- 24. Print

Note: See the detailed guidelines on specific operations

## Detailed guidelines

1. Open wooden box, assembled all the components (Note: Do not install nozzle).



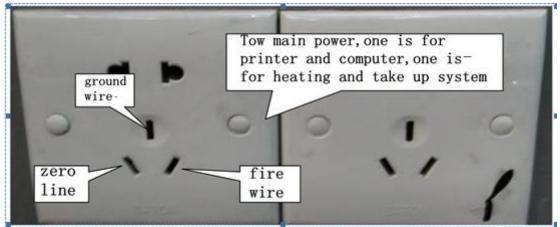
2. Surface inspection, checking inside and outside the machine if there is iron or aluminum

scraps, if have then to clean up.

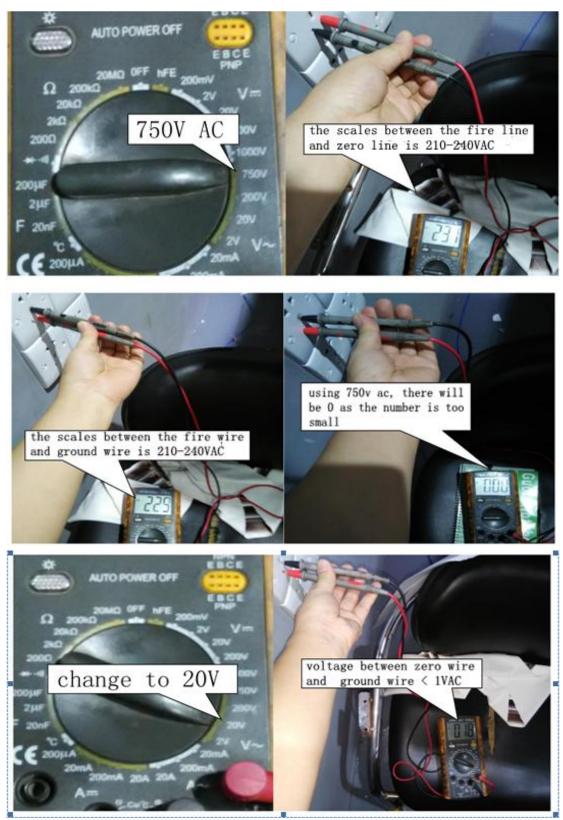
3. Check if the machine screws are loose inside and outside signs, if circuit connector is plugged.



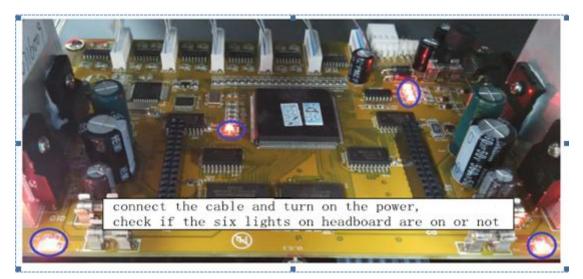
4. Power Check: machine host and the computer mainframe use one power supply (mains, power is not less than 1000W), heating and take up system use another power supply (mains, power is not less than 2000W).



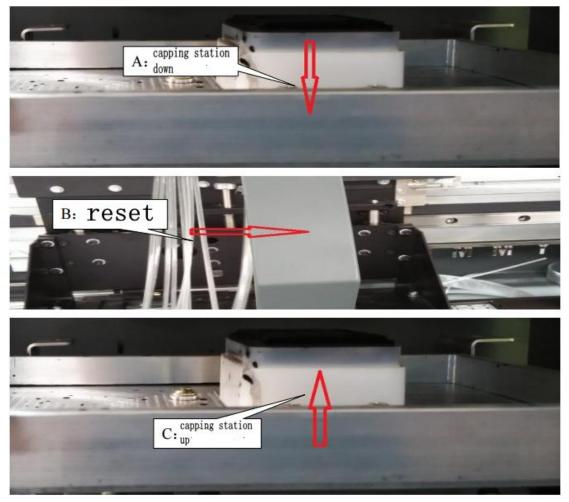
Measuring the main input normal or not by using the digital multimeter, the scales between the fire line and zero line is 210-240VAC(digital multimeter reach 750V ac), the scales between the zero line and ground line is less than 1VAC(using 750v ac, there will be 0 as the number is too small, measure again when change to 20V). When the power do not reach ground line, take the machine shell for the reference of ground line.



5. After power detection normal, pull the car back and forth by hand to look if it is smooth, then turn on the power, the headboard as shown in picture A, there are six LED lights should be all bright in the blue circle position.



6. Open power, observe if reset is normal. A:capping station down; B:reset; C:capping station up.



- 7. Press the keyboard Enter key into the main menu select Advanced.
- 7.1. Select Capping station down to observe if capping station drop, drop to the end, the display screen shows the capping station stops at the bottom.



7.2. Select Capping station up to observe if capping station up, up to the top, the display screen shows the capping station stops at the top.



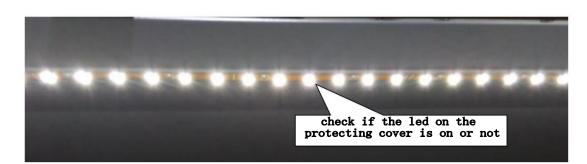
8. Press Esc key to return to the main screen, press front, middle and back heat button, the corresponding indicator indicates normal, while use hand to test if is heating on heating plate.



9. Press the Fan button on the keyboard (or go to Common menu - select the Fan), use hand to feel if fan is working properly, while observe if the LED lights are illuminated on the cover.







10. Enter Common menu, select Into cloth and Back cloth to check if the take up is proper, and also can return to the main screen, press Up, Down button to check if the take up is proper.





11. Make sure capping station stops at the bottom, it can refer to 7.1. Then enter the Advanced menu, select Self-Test, begin to run the machine, observe if the car movement and stepping is normal.

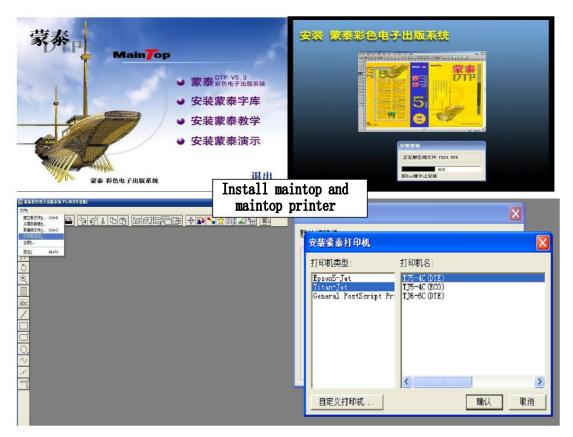


12. Computer configuration and system recommendations

A: CPU, Intel i5 and more; RAM, 8G and more; hard disk, 1T and more; USB interface 2.0 and more

B: system, WIN7 32 bits and more

13.Install Maintop software and printers (Note: Do not plug the USB cable to the printer).



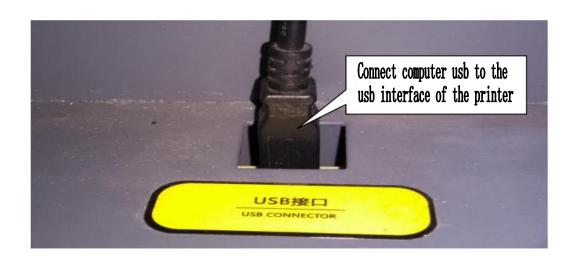
14. Install print control software(Note: Do not plug the USB cable to the printer).

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15. Select the Self-test again, stop running machine.



16. Connect USB cable of computer to the USB interface of the printer, install the motherboard USB drive. (Note: use the back USB interface of computer to connect the printer, unplug the U disk is the best during printing, U disk swap is prohibited).





17. Adjust the position of the wiper



17.1. Lift type capping station: Open the print control software

select T option -

Wiper - select lifting. In Flash height can change the height of the wiper, click Test, visually get the difference in height between wiper and the bottom of the plate, the suitable height is the height of a coin from that of the bottom of the plate to wiper. After the test, click Apply, and then click Clean button, the process of the bottom of the plate being scrapped by the wiper can be seen clearly by washing, when find it is inappropriate, to adjust the height of flash again. With many times of adjustment, the most suitable height can be found.

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17.2. Collision type capping station: Open T tool

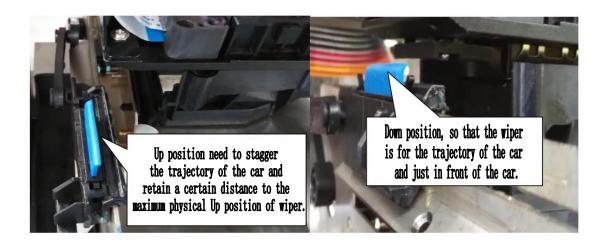
,select the Control Delay

Times Setting, which has setting for up and down position of wiper, finish setting, you can click on the Set button to test and save, Up position need to stagger the trajectory of the car and retain a certain distance to the maximum physical Up position of wiper. Down position, so that the wiper is for the trajectory of the car and just in front of the car. After the adjustment is complete, open



Print control software **Control**, click the Cleaning button, you can observe the action of the wiper scraping the bottom when cleaning, if inappropriate, then readjusted to confirm the optimal up and down position of wiper.

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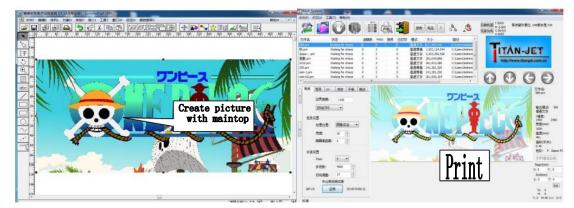




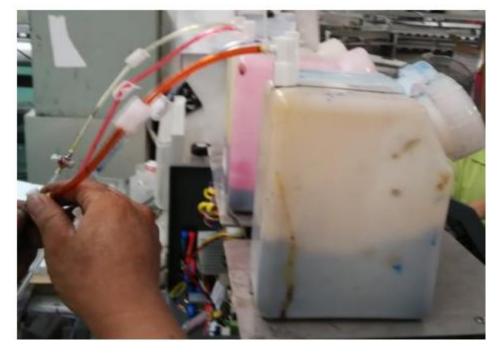
18. Get nozzle voltage, check the voltage if match between ink and print material, the appropriate voltage can be downloaded from Tao tech website.

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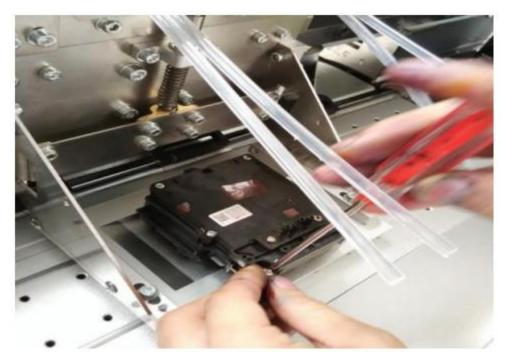
19. MainTop software used to make a wide picture and use the print control software to print(Note: now do not need to install nozzle), check during the process if printing operation is normal and paper not feed.



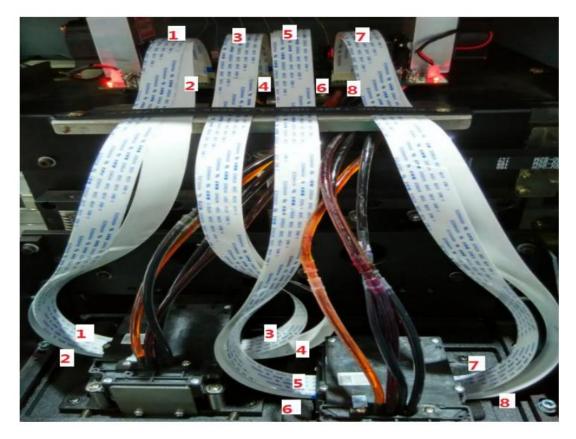
20. Supply ink, pump ink, to establish the ink system



21. Install the nozzle

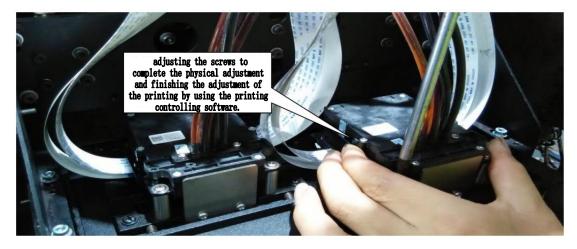


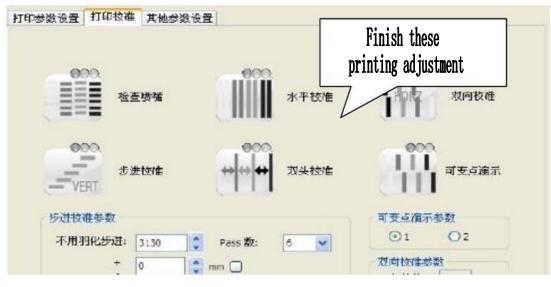
Corresponding the lines from the nozzle to headboard transfer plate according to the following order: the lines in the top of the nozzle are corresponding to that of the transfer plate, the lines under the nozzle are corresponding to that of the transfer plate(top to top, down to down), and correspond from left to right, (for the single-nozzle machine is guaranteed 1 to 4 are corresponding).



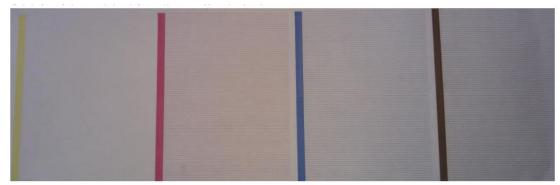
22. Set ink order: Y(Y) - M(M) - C(C) - K(K).

23. Note for nozzle adjust: the bottom of the car plate should be horizontal, adjusting the screws to complete the physical adjustment and finishing the adjustment of the printing by using the printing controlling software.





After adjustment, the test bar should be able to achieve the following results:



Partial enlarged as follows:



24. Print