

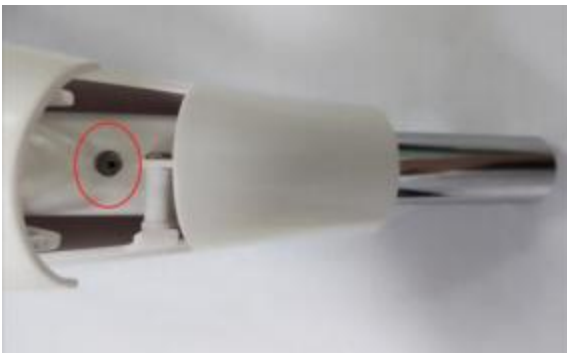
# 1. Gene Gun Installation Steps

## 1.1 Installation of Delivery Pipe

1) Check that the delivery pipe inside and outside are clean and tidy, and the sealing ring at the front end of the delivery pipe is intact.



2) Turn the delivery pipe into the handle, align and twist the thread until the hole on the steel pipe is aligned to the hole on the handle.



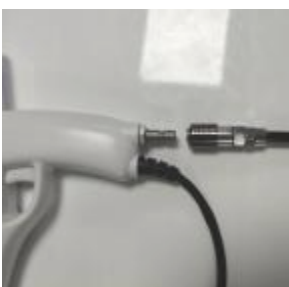
## 1.2 Connect the Handle Cable

Connect the signal line connecting the handle to the back of the instrument. First, check whether the needle inside the jack is distorted or of different lengths, and there is no foreign body blocked in the hole of the connecting line. After eliminating no problem, the corresponding needle hole is inserted and the thread ring is rotated tight reinforcement.



## 1.3 Installation of Gas Pipe Connection

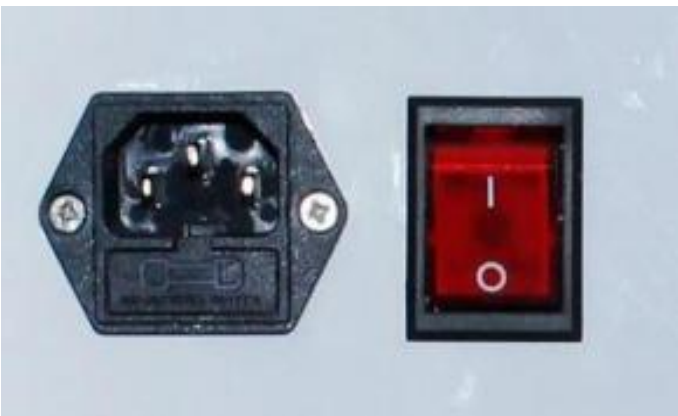
1) Connect the trachea to the handle.



2) The other end is connected to the back side of the instrument.

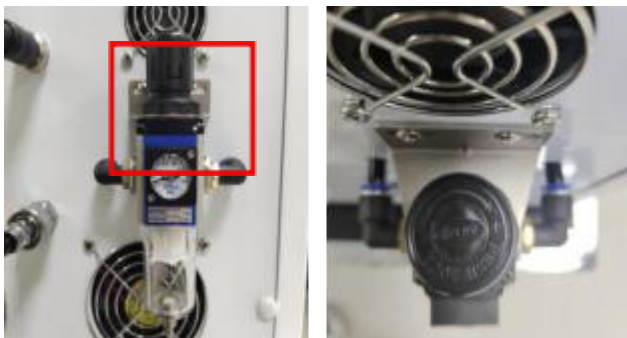


1.4 Plug in the power cord and turn on the power switch; rotate the emergency stop button clockwise and turn on the key switch.



Note: After opening the red power switch on the back of the instrument, first listen to the sound of inflation. Under normal circumstances, the filter cup at the bottom of the pressure regulating valve will have air leakage. Gently block your finger for 10 seconds, the pressure rises to 0.2, and the exhaust valve will automatically close.

**check the pressure gauge pointer, unup the black cap, adjust the pressure to the pressure required for operation.**



Minto decreases pressure / plus for increase pressure  
Counterclockwise to reduce the pressure, clockwise to increase the pressure.  
After adjustment, press the adjustment cap.

## 2. Instrument Operation Process

2.1 **Opening Interface:** Click The Interface, and The Middle Icon at The Bottom.



2.2 **Gas power test:** Click on the middle of the screen to start the test, and continuously pull the handle trigger for two times to complete the test.



**2.3 Start the positioning system:** after opening the upper cover of the handle to remove the foreign objects, click on the middle of the screen, and the push board will be automatically completed into the positioning.

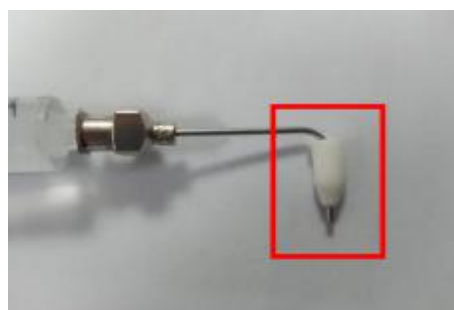


**2.4 Install The Syringe:** put the extracted liquid syringe into the handle, cover the upper cover, and click in the middle of the screen to detect the syringe. Jump to the next step.

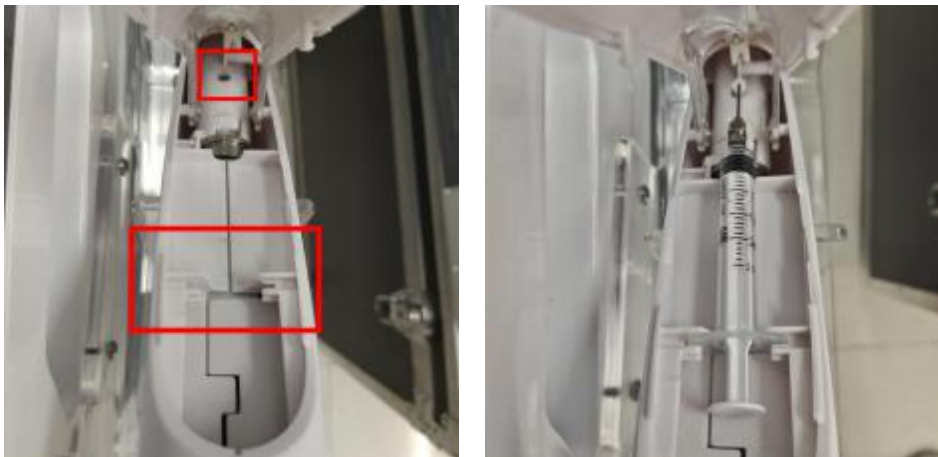


**Note :**

1. The syringe should not exceed 2 ml, and the sealed silicone cap must be installed before the bending to prevent leakage.



2. When loading the syringe, ensure that the bend is aimed at the hole at the front end of the handle. The position of the syringe is corresponding to the groove in the front of the bent needle press the white silicone cap tightly in.



2.5 Test: Click the **confirmation button** in the middle of the screen to continuously rull the handle trigger for two times to complete the test.



2.6 Apply: single / continuous (pul 1 the handle trigger 2 times during operation)





1) **Single mode:** select the dose according to the requirements, click the confirmation button to start the operation, and pull the trigger twice each time Re-click the confirmation button.



2) **Continuous mode:** select the dose according to the demand, and click the confirmation button, you can continuously pull the trigger for operation.



2.7 **Select subsequent operations:** after operating the products in the syringe, you can choose to exit or continue the operation.



Enter the syringe inter face,take out the syringe and extract the liquid again. Follow the previous steps to turn off the gas main switch and pull the handle trigger to release the gas in the table and in the trachea Come out, and finally turn off the power switch and rotate to release the pressure adjustment button.



### 3. Notes For Safe Use

1. Receiving the new instrument, stand it for three hours and then start on. The second transported instruments also need to stand for three hours before turning on make use of.
2. Check whether the two filter cups behind the instrument are damaged or have oil or water before starting up, and clean them up in time.
3. The instrument must be placed on a stable table surface and cannot be tilted or shaken.
4. Plug in the power cord, turn on the red switch behind the instrument, first, listen to the sound of inflation, and the pressure regulating valve under normal circumstances The filter cup at the bottom will have leakage, gently with the finger for 10 seconds, the pressure rises to 0.2 can let go, the exhaust valve automatically closed, then check the pressure gauge pointer, pull up the adjustment cap, adjust the pressure to the pressure required for the operation.

5. Turn on the key switch on the front of the instrument to operate the instrument normally. If the interface does not show the startup, check whether the emergency stop switch is located. In the bounce state, the button is rotated clockwise when not played.

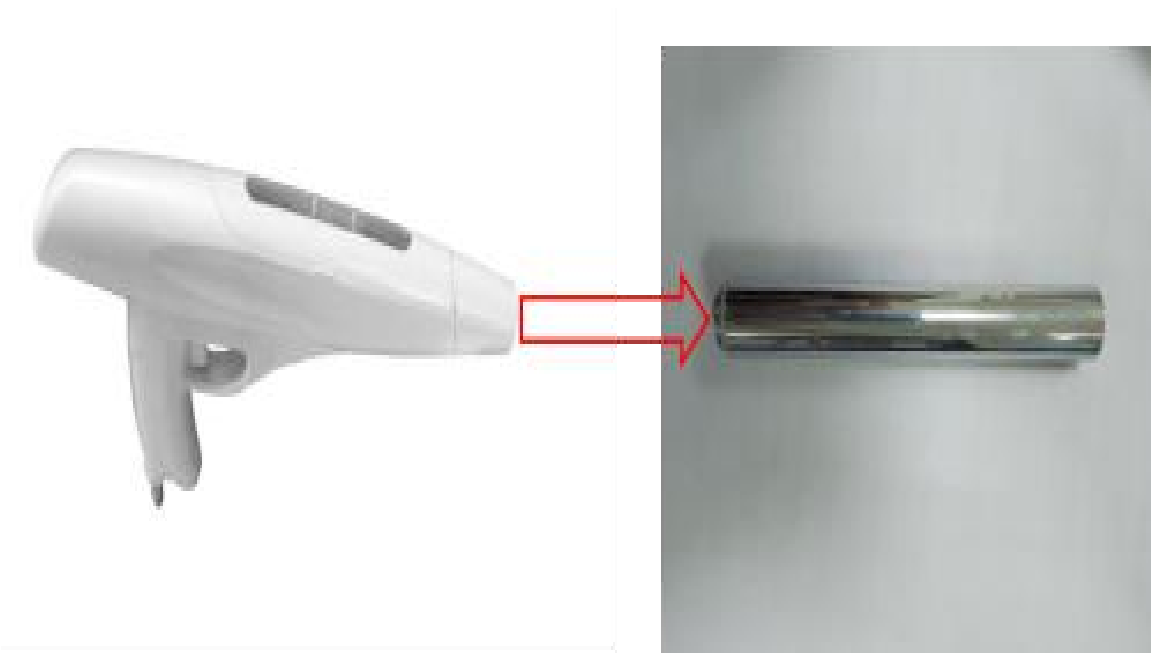
6. Turn off the red switch on the back of the instrument for 1 hour, and cool the instrument for 10-20 minutes before use, repeat this operation.

7. After using the instrument, the gas in the trachea should be drained clean and the trachea should be removed to avoid damaging the density of the handle shrouding.

8. The instrument should not be placed in a wet and direct place to avoid accidental damage. It should be stored in a cool and dry way position.

## 4. Instrument Maintenance and Cleaning

1. After using the instrument, please remove the delivery pipe in a rotating way, and clean and deliver with the ultrasonic cleaning machine with pure water. Inside the tube after cleaning the Yin dry sterilization can be. (Never use organic solvent or brush brush inside the delivery tube)





2. Please use 75% alcohol to wipe the outside of the shell carefully, and prevent water droplets from infiltrating into the shell. After the outside of the shell is dried.

3. After using a stage of the course of treatment, if you want to replace and use other maintenance products, you must clean the delivery pipe (according to the delivery pipe cleaning steps), so as to avoid mixing with other maintenance products during delivery, and affect the effect of the maintenance products.

4. The water in the filter cup should be cleaned up in time. The cleaning operation is as follows.

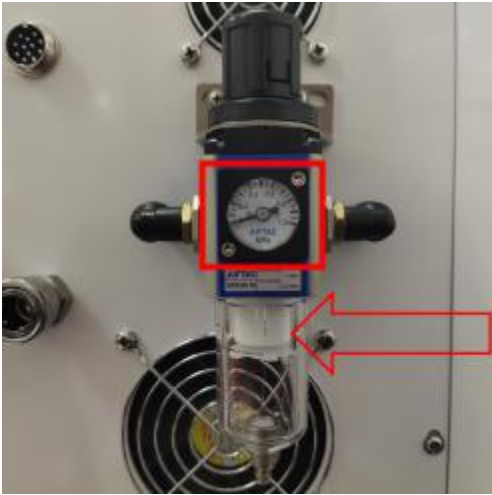
a . Press the thimble at the bottom of the filter cup upward, and catch the water with the water cup below.



b. Turn to the left and unscrew the filter cup, pour out the water inside and rinse and dry it with clean water.



c . After the operation, discharge the gas until the water in the center is back to position 0 automatically in the cup. Remove it if necessary  
Clean, rotate to the left, and pay attention to the black sealing ring of the filter cup when installing.



## 5.The Instrument Common Faults and Solutions

Common fault	resolvent
Turn on the power switch light is not on	Check if the fuse is burnt out and replace the fuse (with video).
The instrument is inflated without pressure	Check the instrument filter cup for leakage and check the cause of leakage. Generally too The seal ring falls off when the filter cup is not tightened or when the filter cup is removed.
After boot a harsh sound	Solenoid valve is not suction, need to remove the machine to check the solenoid valve, the general situation of loose electricity The magnetic valve comes down and the two screws can be solved.
The instrument is stressed,the pressure gauge shows normal ,There is no sound from the operating handle	Check whether the operation handle cable is damaged and whether the pin is intact.
Foreignbody was detected on the handle	Open the upper cover, check for foreign matter in the syringe groove, and press the detection switch gently Check whether the connecting line is loose.
The syringe is notdetected	Check the detection switch at the push plate, whether the syringe is installed in place to resist the detection switch.
Pull the trigger, and you can die	Check the air pressure display, and connect the trachea, and press the button at the trigger.

## 6. Warranty Instructions

1. Within one year from the purchase date, free maintenance and replacement of parts service.
2. Customers shall operate and use it according to the operation manual.
3. The damage is not covered by the company warranty due to the following conditions:
  - Open the parts without the authorization of the company.
  - Damage to the instrument caused by any person for careless operation or failure to follow the user operating manual instructions.