



Beambox Laser Tube Replacement Installation Guide



Installation

Tools

Accessory Box: 1. little wrench 2. funnel

Laser Tube Box: 6. cable ties 8. laser tube hose plug

Prepare On Your Own: 3. Philips screw driver 4. needle-nose pliers 5. diagonal pliers 9. towel 10. water container

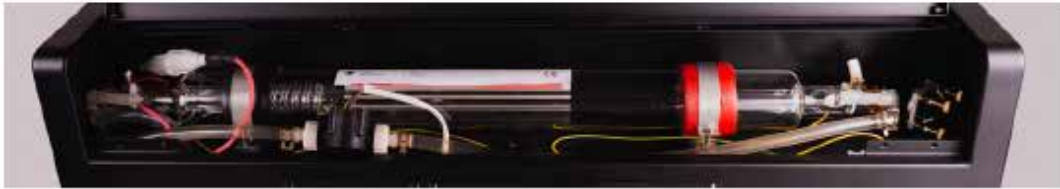


PLEASE UNPLUG POWER BEFORE OPERATION

1. Remove the screw inside the handle of the back lid then open the lid.



There are two ends on a laser tube. The one with the red wire which is closer to the touch screen is called the high-voltage side. The other next to the first mirror is called the low-voltage side.



▲ high-voltage

▲ low-voltage

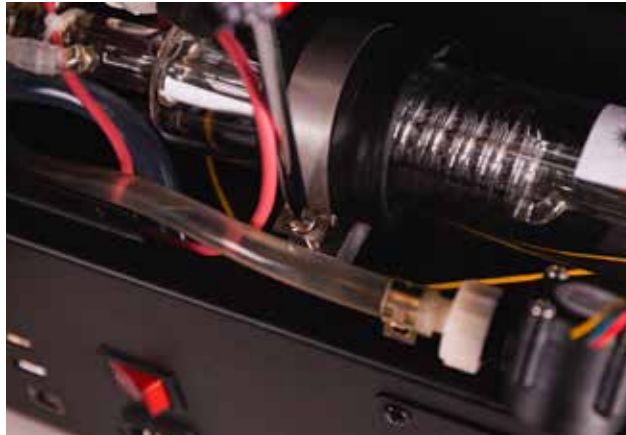
2. Find the white connector on the high-voltage side. Twist open the connector and disconnect it.



3. Find the white terminal near the low-voltage side. Press the button on the white terminal to release and remove the cable connected to the low voltage



4. Remove the screws of the laser tube holder on both sides.



5. Move the hose clamp away from the laser tube by pliers (A). Take the laser tube out of the chassis and place the low-voltage side above a container (B). Disconnect the hose from the tube and drain the water (C). Clog the hose by a plug when done.



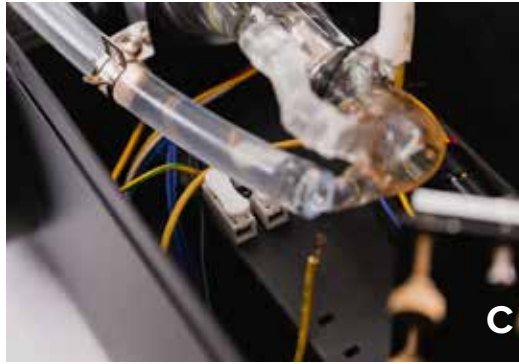
6. Place a towel under the high-voltage side (A). Cut the cable tie on the end of the hose with the diagonal pliers or scissors (B). Pull off the hose so the tube is fully disconnected (C) and can be entirely removed (D).



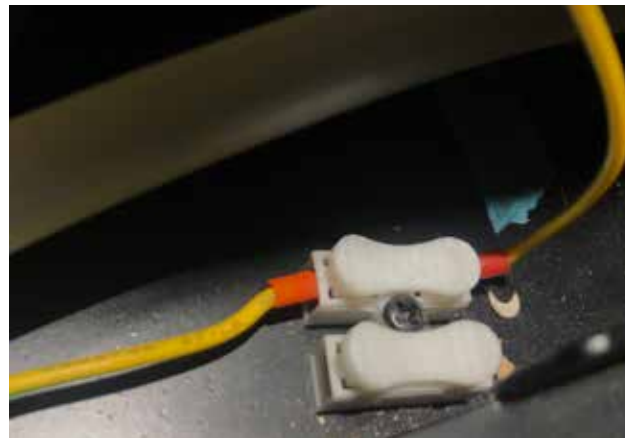
Avoid spilling water into the machine. If it happens, wipe away the moisture and wait till the machine entirely dries up.

7. Place the new laser tube and connect the hoses on both ends (A). Zip the high-voltage end by a cable tie (B) and clamp the other end using the original metal hose clamp (C).





Release the metal clamp slowly to prevent damaging the tube by force bounce back.



Two yellow cables much be on the same side

8. Reconnect the white connector on the high voltage side (A). Plug the wire into the terminal on the low-voltage side and make sure the wire is clamped firmly and does not fall off. Check the wire if it is firmly clamped by the terminal (B).



9. Place the laser tube into the chassis. Make sure the gap is wider than a finger on both ends of the tube. The terminal on the laser tube which connected to the thick red wire should point upward. Install the screws of the tube holder clip and make sure the tube is fastened firmly. Make sure the terminal of the red cable point upward instead of another angle. Do not let the end of the tube touch or close to the side of the chassis. **Wrong placement for the tube may cause a voltage leak.**



10. Check all the installation and the machine is ready to start up.



Do not touch the area near the high voltage side of the tube to prevent electric shock.

11. Press “Maintenance” and the laser head will go to the home position. Press “Pump” and the cooling water will be pumped into the laser tube.



Beware not to press “Laser”. Do not put a finger near the laser beam outlet.

12. Unplug the power and open the cap of the water tank. Fill the water tank with a funnel and seal it back.

 **Watch the water level carefully to prevent it from spilling over. Distilled water is best and recommended.**



Use a little wrench or coin to open the tank.

13. Repeat steps 11 and 12 until the level of the tank no longer decreases. Then the replacement is complete.