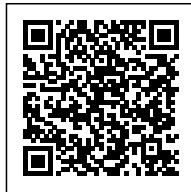


REASONS AND SOLUTIONS FOR CO2 LASER NOT TURNING ON

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Category: [Laser Cutter News](#)



When the CO2 laser is not emitting, you can follow the steps below:

Check power connection

Press Pulse, the ammeter works, and the laser power supply is normal; if it does not work, please check whether the wire connection or power supply is damaged.

Remove the signal line and network line of the laser power supply, and then press the TEST button. If the laser shoots out, the laser tube and the power supply are fine, it's just that the wire is not connected properly somewhere.

Please confirm that the wires in the motherboard are connected correctly.

Check your emergency stop button

Some laser cutters have an emergency stop function. These are usually big, bright red buttons that can be pressed quickly to cut power to the laser. Remember to reset the emergency stop (by turning it until it "springs back" to the "up" position). The laser will not fire without resetting the emergency stop.

Check cooling system

Another common cause of a laser not emitting light is water not flowing through the laser tube. As a safety setting, if water is not flowing through the laser tube, it will not fire the laser. Some cooling systems will activate an alarm when the water is not flowing or the water temperature is too high. In either case, you need to check that the cooling water is working.

Please check your plumbing connections and make sure your plumbing and chiller are assembled correctly, more likely, you have the plumbing upside down. Proper plumbing assembly is shown in the illustration.

Check your lenses

Sometimes it's the case that the laser is firing, but not hitting the mirror (and therefore not hitting your material). If you are visually seeing the laser tube firing, but no laser is hitting your material, try an alignment test to see if your lenses need to be adjusted. If you encounter problems during the operation, you can contact the technician online, and he will help you.

There are many reasons why the [CO2 laser cutting machine](#) does not emit laser light. Usually, you can solve it by troubleshooting according to the above steps.