

I bought 10 watt laser kit.

I assembled the laser kit and connected according to the instruction

When I was adjusting the laser volt and current to have good laser power and keep the laser diode safe as well I was not able to get more than 3.7A@5V

I have done some practice to improve the laser power without exceed 5V

I found that the wire which connected between the laser diode and DC-DC converter should be thicker either the length should be less as possible to reduce the wire resistance to increase current.

From my side I preferred to reduce the wire length

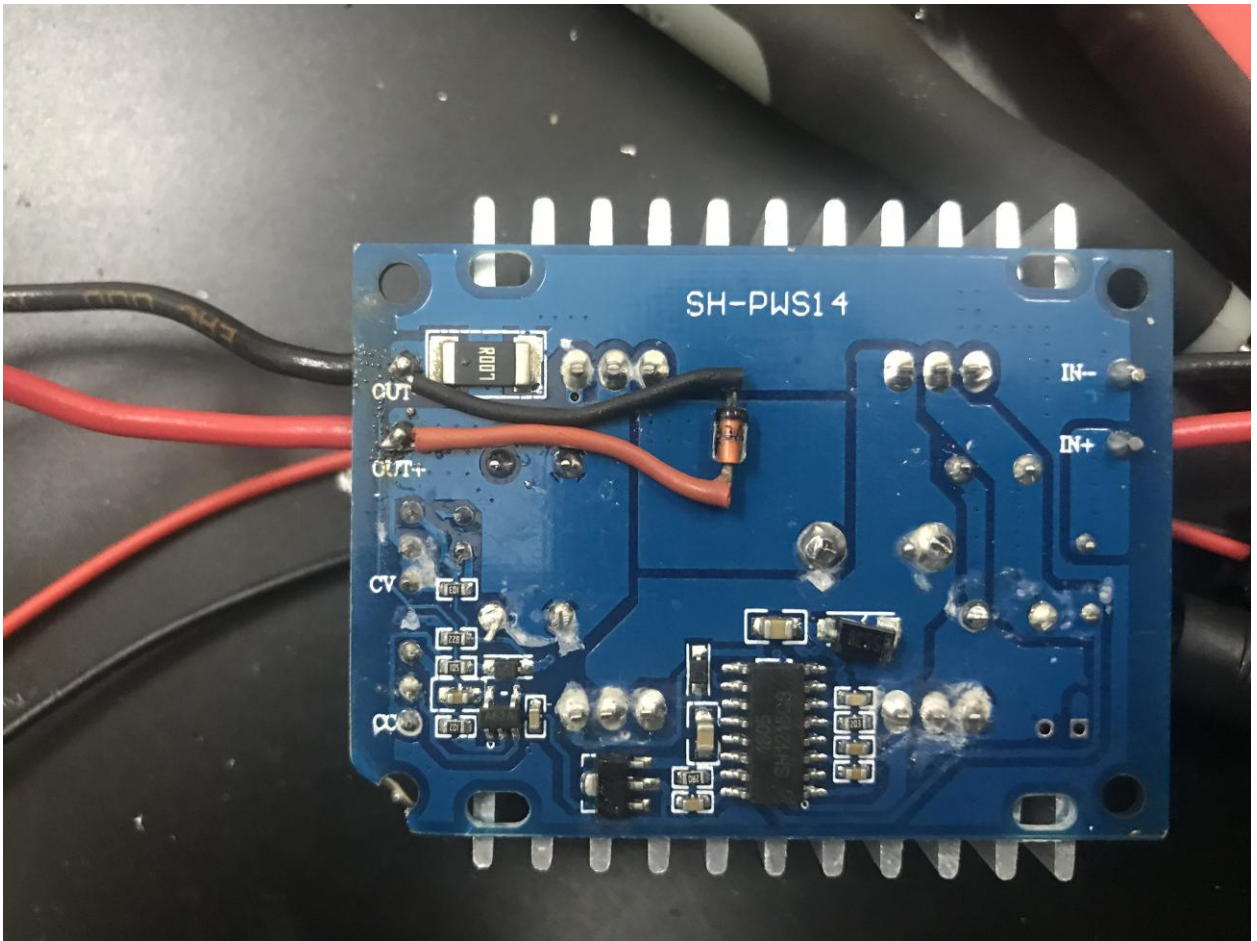
**Procedure:**

I found that the best way is to connect the laser diode direct to to DC-Dc converter without any connection as below picture. Since I don't have Endurance laser box so I got idea to fix the DC-Dc converter on laser frame as below

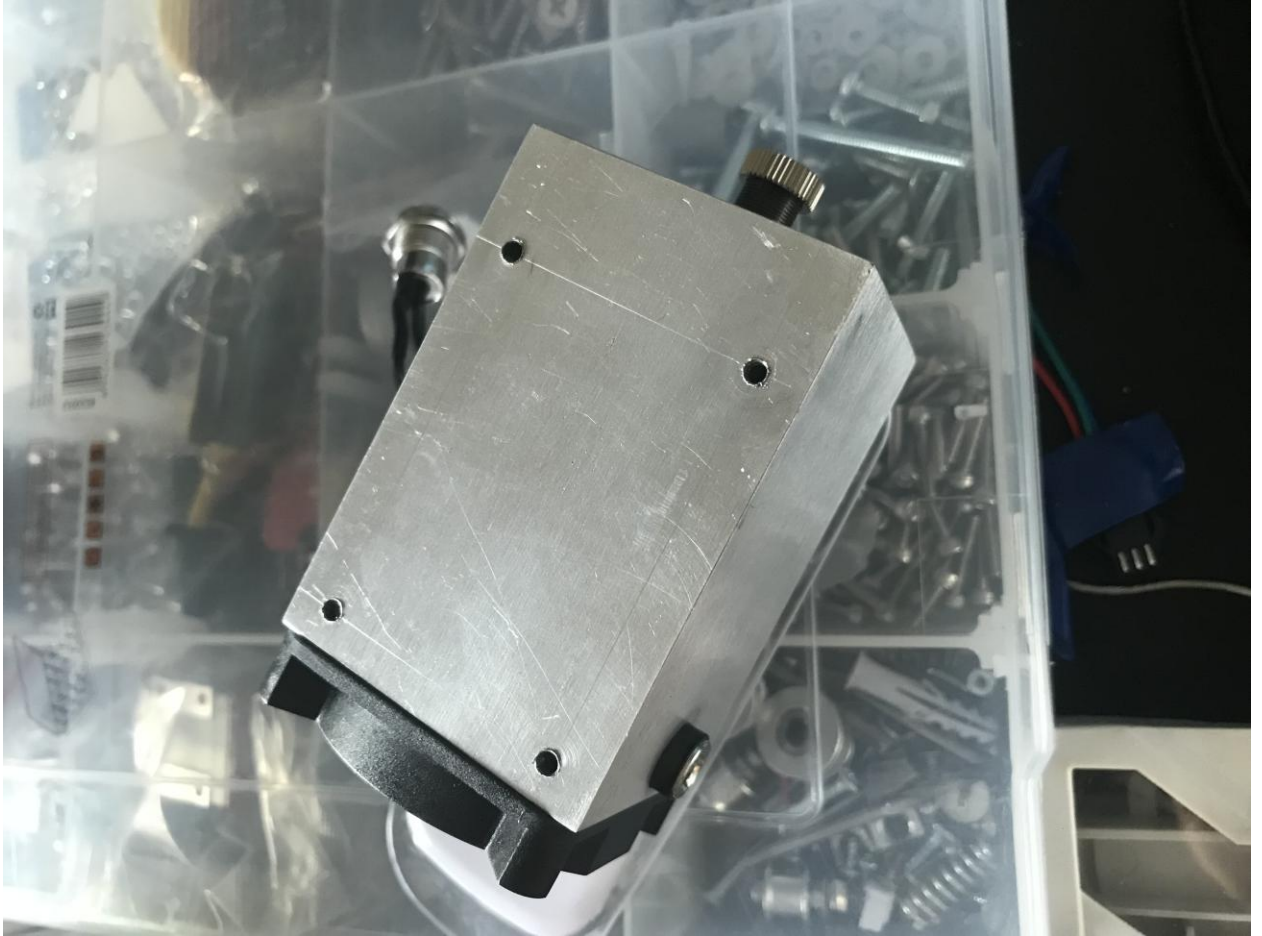


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- 1- Fix the Zener diode direct to DC-DC converter output

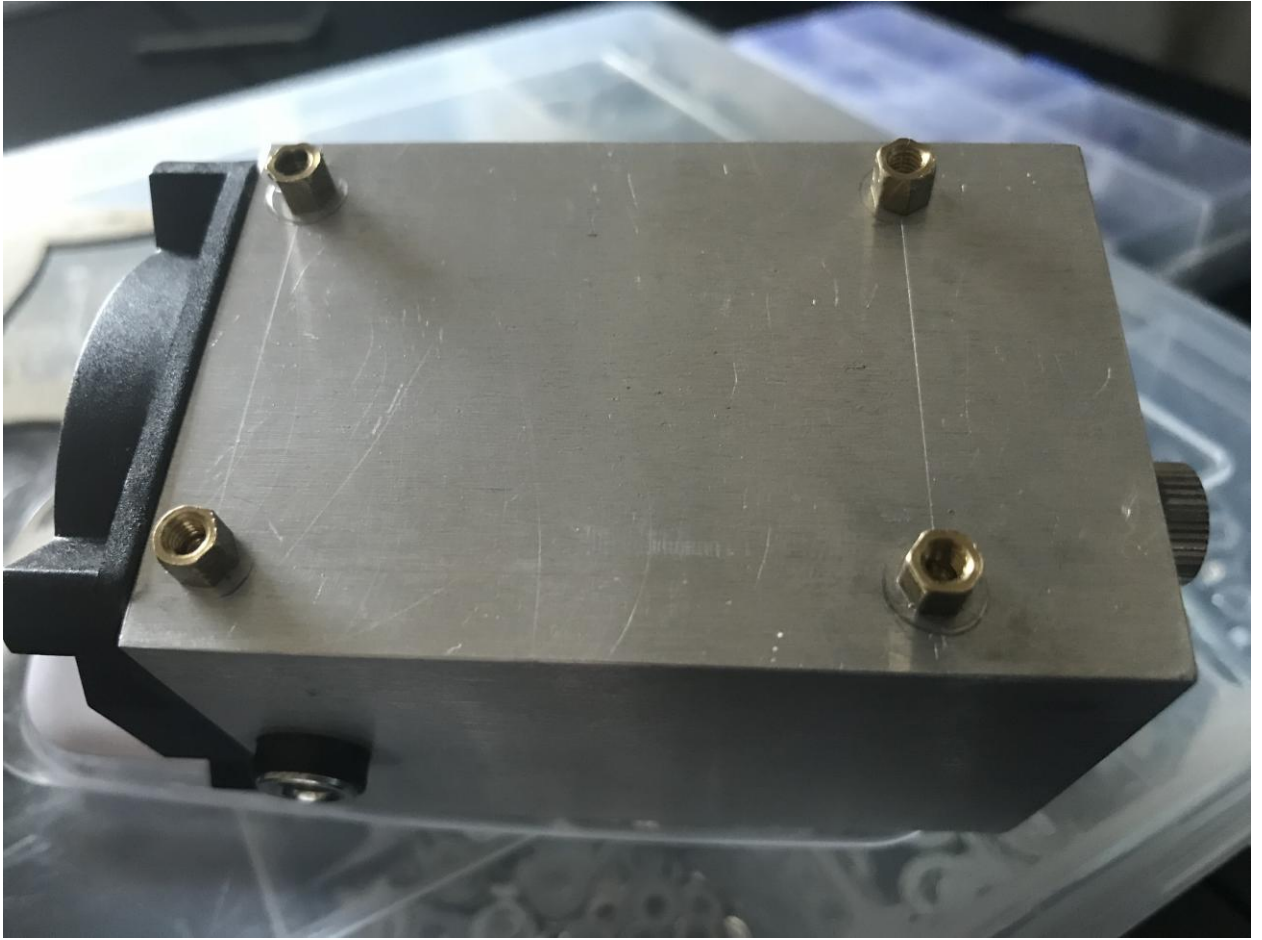


- 2- Make 4X3M threaded holes on laser frame according DC-DC converter holes dimension to mount the DC-DC converter.



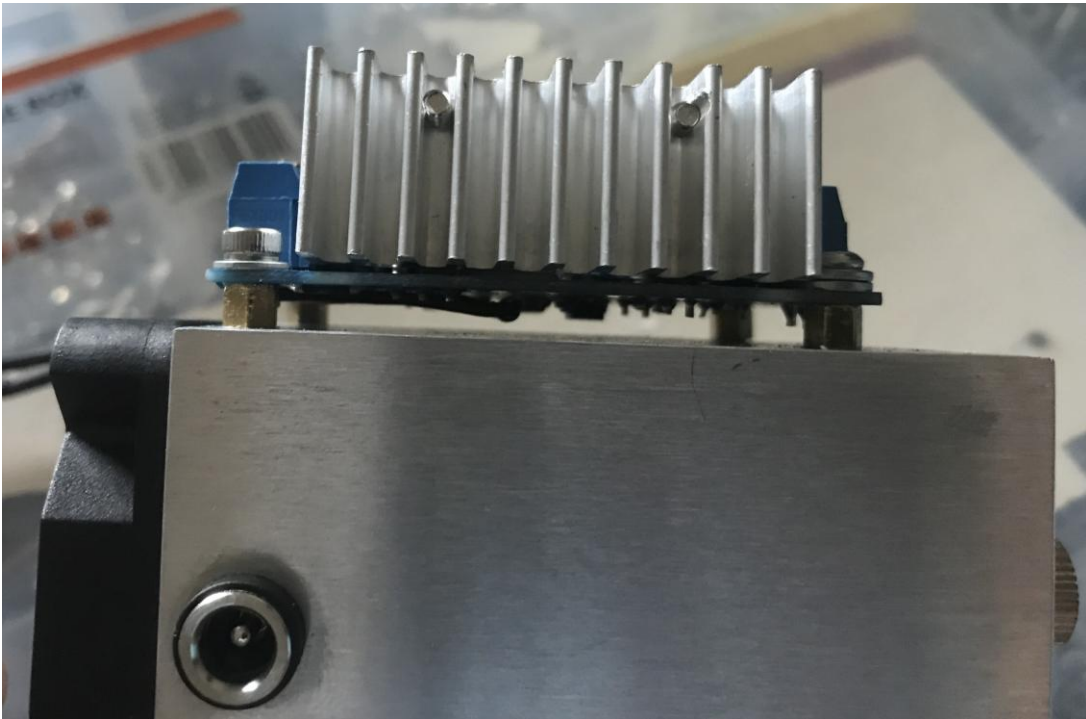
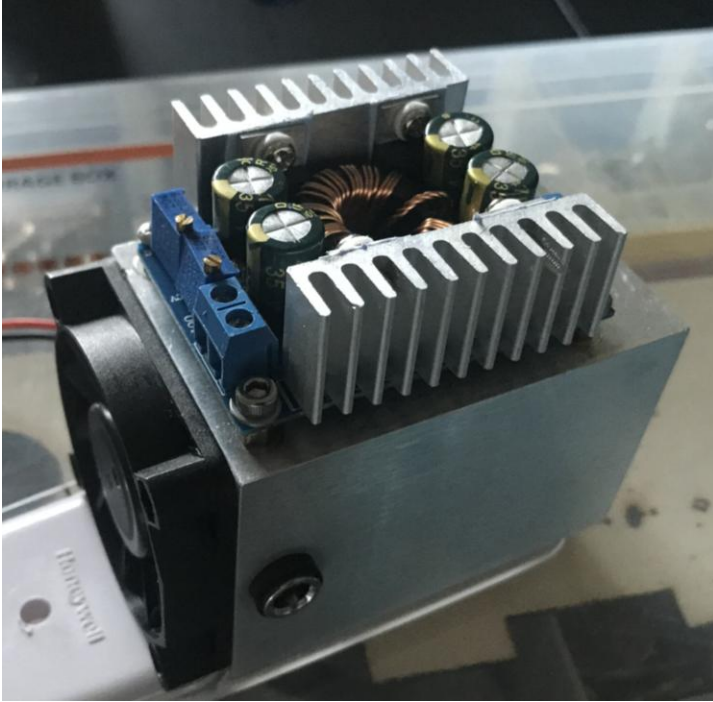
- 3- Make space between the DC-DC converted and the frame via Standoff Spacers M3 x 6mm Male/Female.



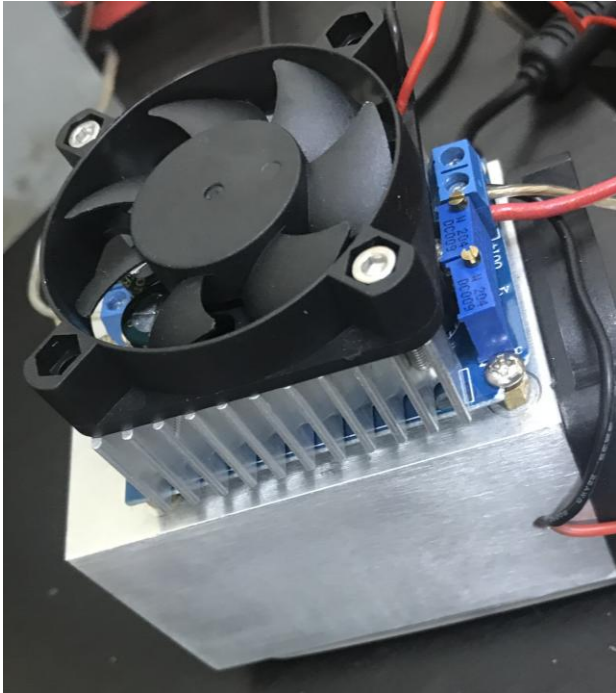


4- Install the DC-DC converter with 4 screws M3X4mm

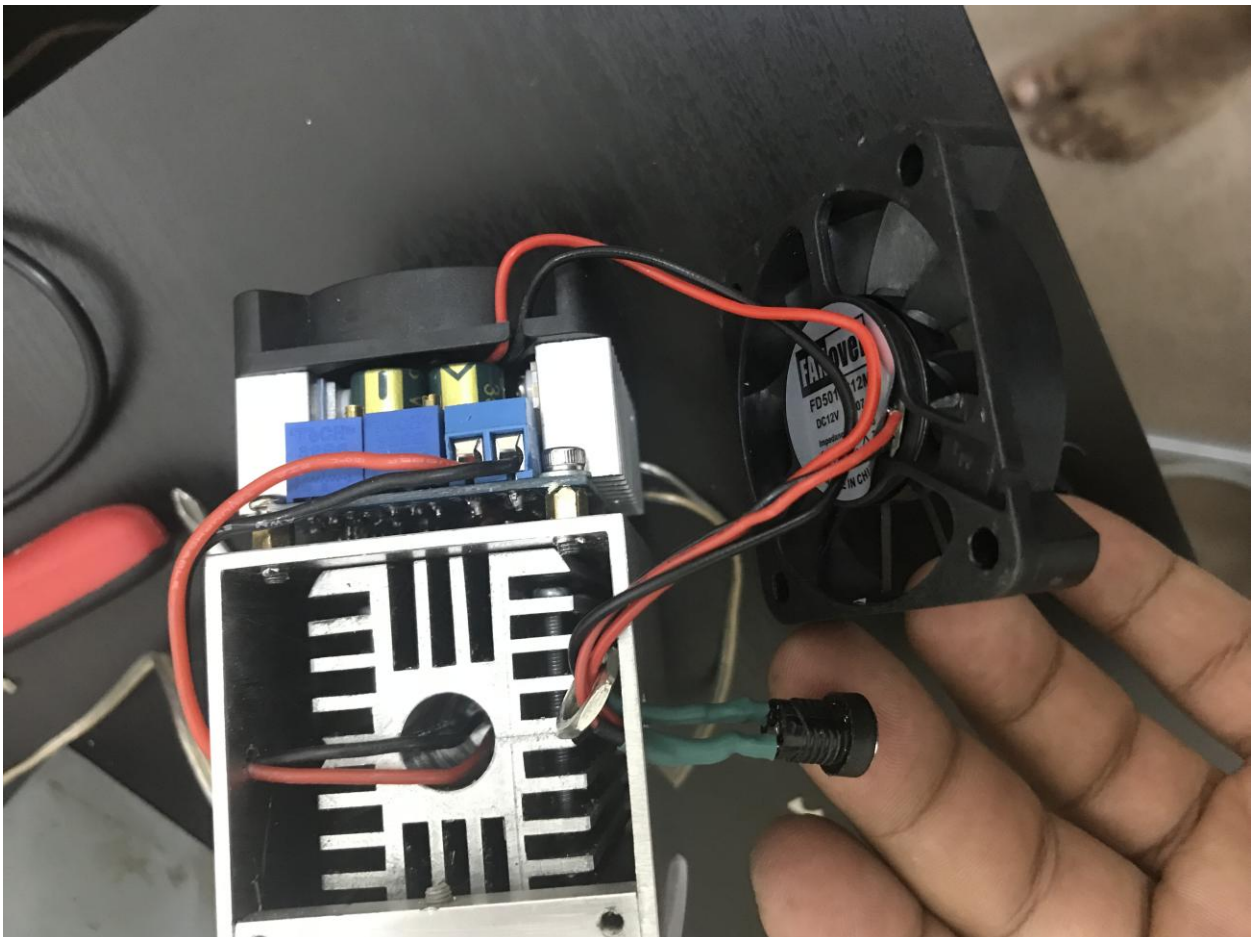


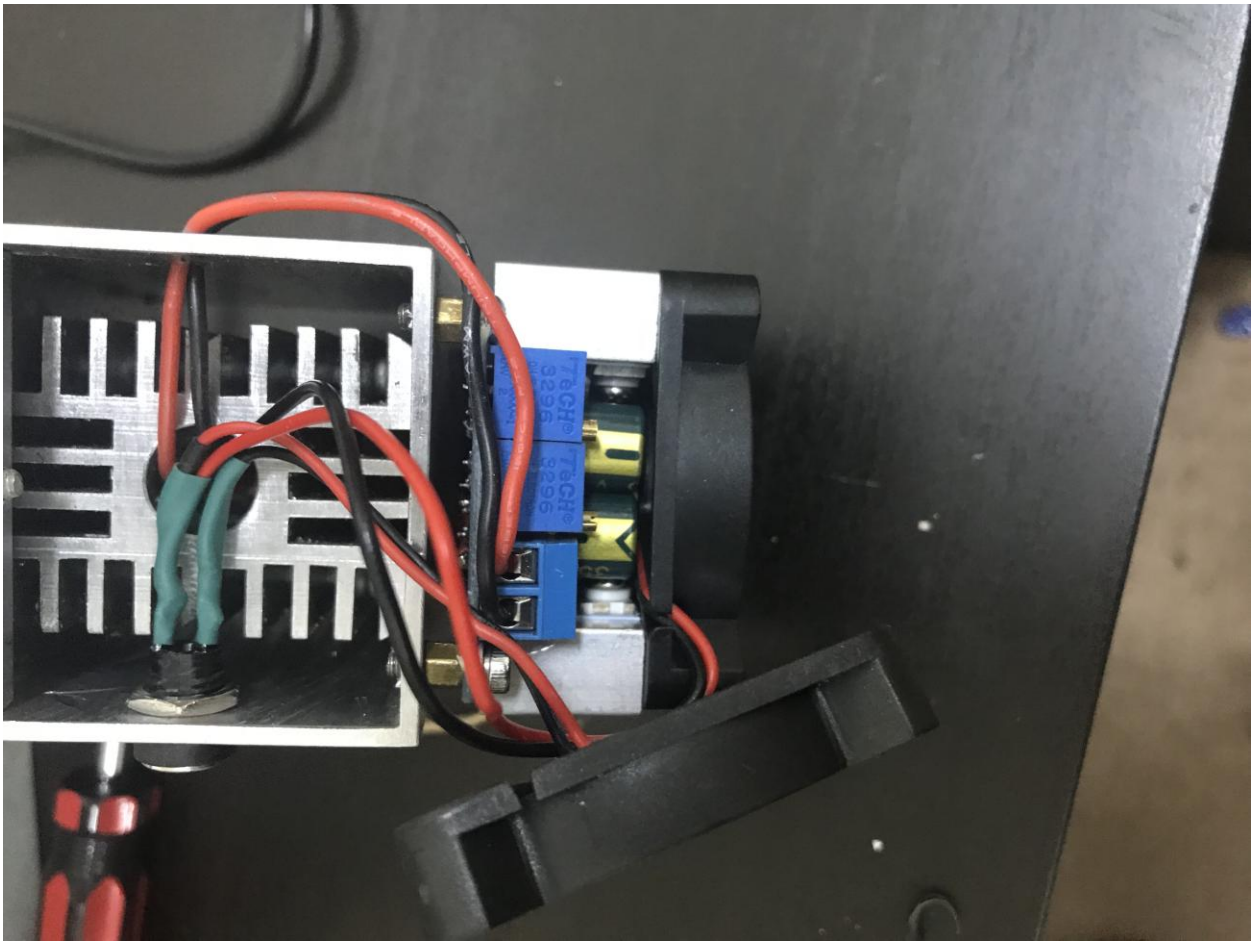


- 5- Install the fan on the DC-Dc converter with 2 screws M3X15mm ( the screws can fit easy between the fins)



6- Connect the DC-DC converter fan in parallel with laser fan.

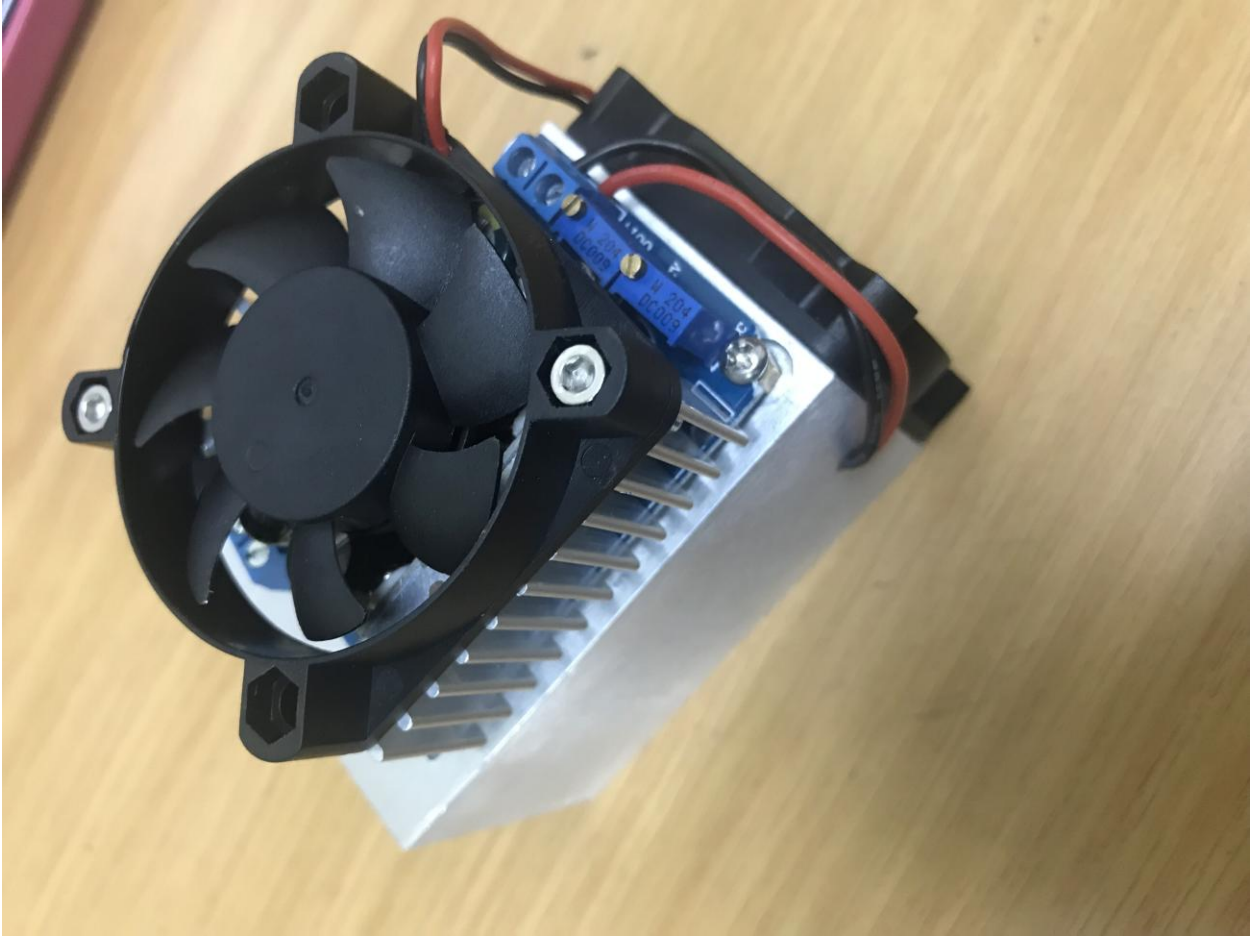




7- Connect the laser diode wire direct to DC-DC converter output.







8- Here the result



I had issue with laser lens it's loss a little bit even with the spring. i put some Teflon thread tape on laser lens thread and became good.



Soon will add my idea how to mount the MOI board in to laser frame

You are most welcome for any question at any time

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