

## Instructions the xsrobotics Laser Air Assist Kit

Thank you for ordering the Laser Air Assist Kit. On the following pages you will see how to assemble the kit and what you should pay attention to. Begin by making sure all parts have arrived in the package.

At the beginning I refer again to the safety and liability information: When you are installing the Kit unplug the laser cutter. We are not liable for any damages to persons or things.



1. Mount the drag chain to the drag chain holder.



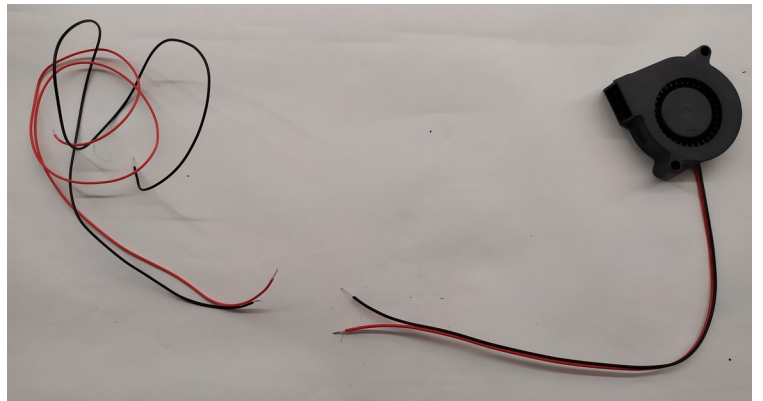
2. Insert the lasers.



3. Insert the screw (the screws holding the lasers can be installed later after testing if the beams hit the right spot, screws might not be necessary)



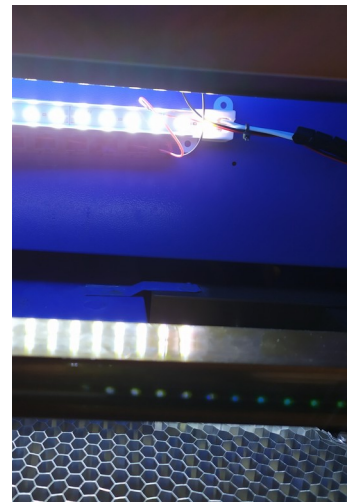
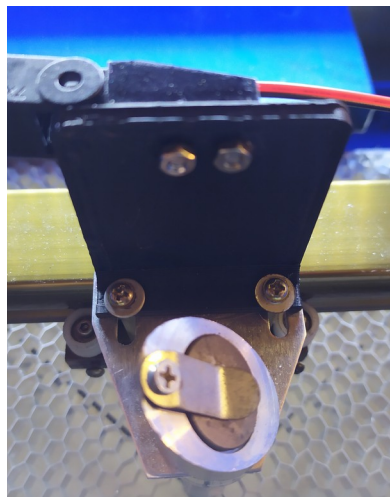
4. Increase the length of the fan wire.  
(wire not Included)



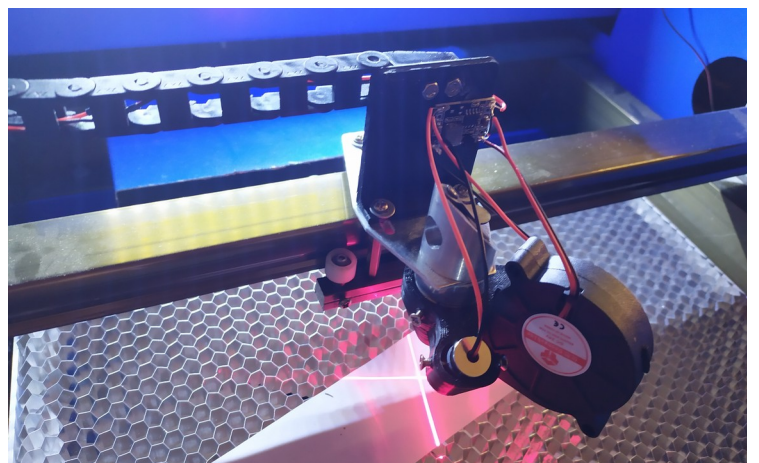
5. Drill two 6mm holes in the control area.  
Cover the power supply up before drilling to avoid metal falling into the power supply. And of course make sure that you are no drilling into the PCB.



6. Mount the drag chain on the right side of the back wall with superglue. Make sure the drag chain can travel to all position of the laser cutter. (tread the cable trough the drag chain first, depending on the way you want to switch the system on and of, the 2 options are on the next page) I can recommend "UHU Sekundenkleber Blitzschnell" (the glue comes with ordering our honeycomb adjustable bed)



7. Mount the nozzle to the laser cutter and solder the wire according to the plans in the next step.



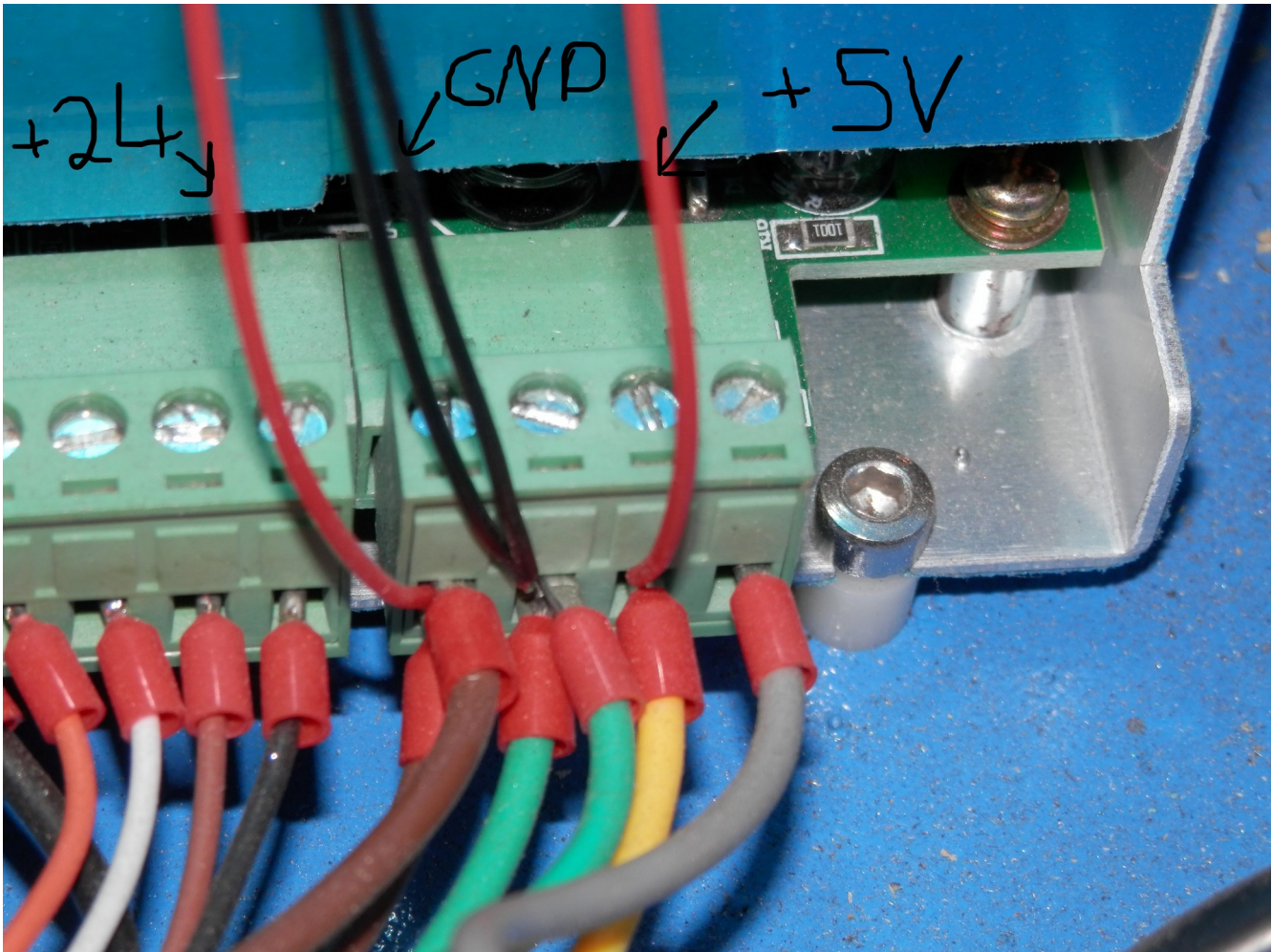


#### 8. Wiring:

The Laser run on 5V.

The Fan runs on 24V.

You can get both voltages from the power supply.

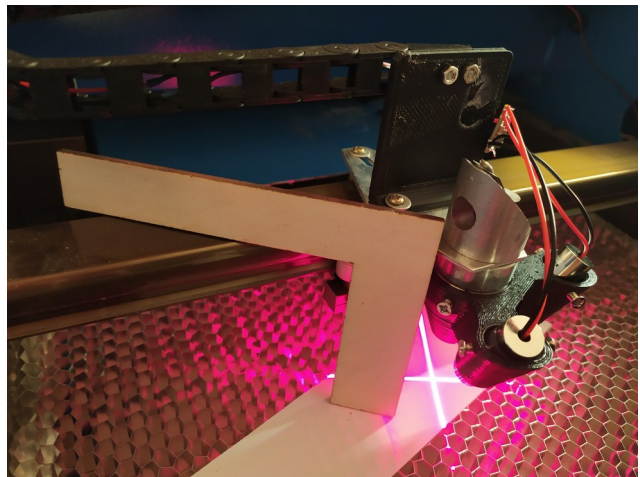


Use a Multimeter and measure it to be save.

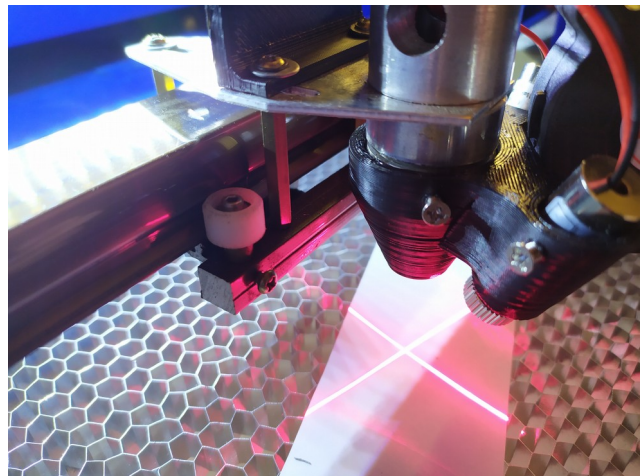
You are doing this on your own responsibility and this is just information to help you out.

Your power supply might be different.

9. Next step is to check if the lines are in focus. Focus your adjustable z-axis first (if you do not have a z-axis check out our website [www.xs-robotics.de](http://www.xs-robotics.de)). Now you can adjust the focus of the lasers by turning the tread at the end of the laser.



10. Now you can check if the lasers are aligned with your co2 beam. Take a piece of paper and shoot a short test beam. Now you can adjust the laser lines by hand and secure them with the screws.



11. Have fun with your laser cutter. :D

If you have any questions or suggestions, please contact: [mail@xs-robotics.de](mailto:mail@xs-robotics.de)

By the way: We also have an adjustable honeycomb z-axis on offer (on our website). Please contact us if you have any questions.

More upgrades and products from xsrobotics are on our website ([www.xs-robotics.de](http://www.xs-robotics.de))