

Absolute Laser Law:

We're normally pretty relaxed about who uses what around here. However, we also don't normally don't use **\$35,000 MSRP** pieces of equipment **such as this laser**. As such, you **must** follow the following basic rules. Failure to do so will result in restricted use of the laser. They're not difficult, so just always keep them in mind.

1. **Do not leave the laser unattended no matter how long your laser task is.**
2. **Before using the laser you must take a class. Ask in #laser in Slack for a class and we'll get you scheduled.**
3. **You absolutely, under no circumstances may cut PVC (or any material with PVC in them) or Vinyl in a laser cutter. Doing so will result in you not being allowed to use the laser. It can at worst **kill you** and at best corrode the laser and will void it's warranty. If you're unsure, look up the MSDS for your material.**

Also, please check the "Material Compatibility List" on the FamiLAB Wiki:

https://familab.org/wiki/Epilog_Laser_Cutter

- 4. Report all faults in the machinery immediately in #laser or #broken on Slack. We just have to know it's broken so we can get someone experienced to work on it. You are also required to leave a sign stating that it's not working somehow adhered to the laser before leaving the lab.**
- 5. Do not touch the following settings, they are factory settings and can seriously fuck up the laser: Laser match, Stamp match, X-scale adjust, Y-scale adjust, Laser T.I., Bed Size, Full table home, Calibrate joystick.**
- 6. The exhaust must be running at any time the laser is being used. The exhaust is turned by the switch located to the right of the laser on the wall. If it doesn't sound like a hurricane in here, something's wrong. Also, air assist needs to be on when cutting. Reach down to the right of the laser, on the floor. Make sure that the compressor is running before you start cutting. You must also leave the exhaust on for 10 minutes after your cut is finished.**
- 7. Do not use the laser if the A/C for the room is broken or the temperature in the room is at 80°F. It will void the laser's warranty if the heat in the room is too high.**
- 8. Do not put items 30 lbs or over on the laser bed at anytime.**
- 9. Food and drink is not allowed within 2 feet of the laser. Do not place food or drink on the laser ever.**

- 10. Do not move the cutting head by hand. ALWAYS use the Jog mode on the display menu, and the joystick.**
- 11. Do not hit the rulers/guides on the vector grid table with the laser. They are used for lining up parts and if damaged will need to be replaced. Make sure your 0, 0 home for cutting is slightly moved out from the top left inside corner of the rulers.**
- 12. If you intend on using the rotary tool:
 - A. TURN OFF the laser first.**
 - B. Plug in the rotary tool carefully.**
 - C. Turn the laser back on.**

Failure to turn off the laser cutter first will severely damage the laser's electronics.**
- 13. If you're cutting or engraving MDF, you MUST clean up after every use. MDF is mostly made up of small compressed wood fibers and adhesive so when it's cut with the laser the fibers are let loose and stick to the laser's surfaces. This happens everywhere from the laser grid, to the fans, and even the optics.**

**These rules are subject to change without notice.
So read them before each use of the laser.**