

# The MicroSlice Mini Laser Cutter & Engraver

## Build Tips

<http://thelittlebox.co>

There may be some scorch marks on the plywood parts, you can try to lessen them with sandpaper. You can use PVA glue to stick the parts together.

The Acrylic parts have a protective film on each side. This will need removing before you assemble your MicroSlice. You will need to use acrylic glue, I used Tensol 12 to build a test Acrylic MicroSlice.

- Some parts are marked with arrows > these parts point towards the front of the MicroSlice.
  - The motors have screw-holes which need to be counter-sunk. I used a 6.4mm 90 degree bit to do mine, anything bigger and the bit will hit the motor shaft.
  - Test assemble everything at least twice before you glue!
  - There are three major assemblies; the Gantry with the X Axis, the upper platform with the Y Axis, and the lower platform which holds the electronics. Each can be built separately.
  - Don't lubricate the aluminium tube & the steel bars, it will attract grit and other detritus which will foul the mechanism and reduce movement.
  - Don't glue the cutting table to the upper platform; you might need to get to the motor below.
  - Do not connect the Laser Diode until everything has been tested as working. Never look at the laser light. I recommend buying some protective glasses. You can get a pair for under £10.
- 
- Don't Panic! If things go wrong head to the forum <http://thelittlebox.co/theforum>

Have Fun!