

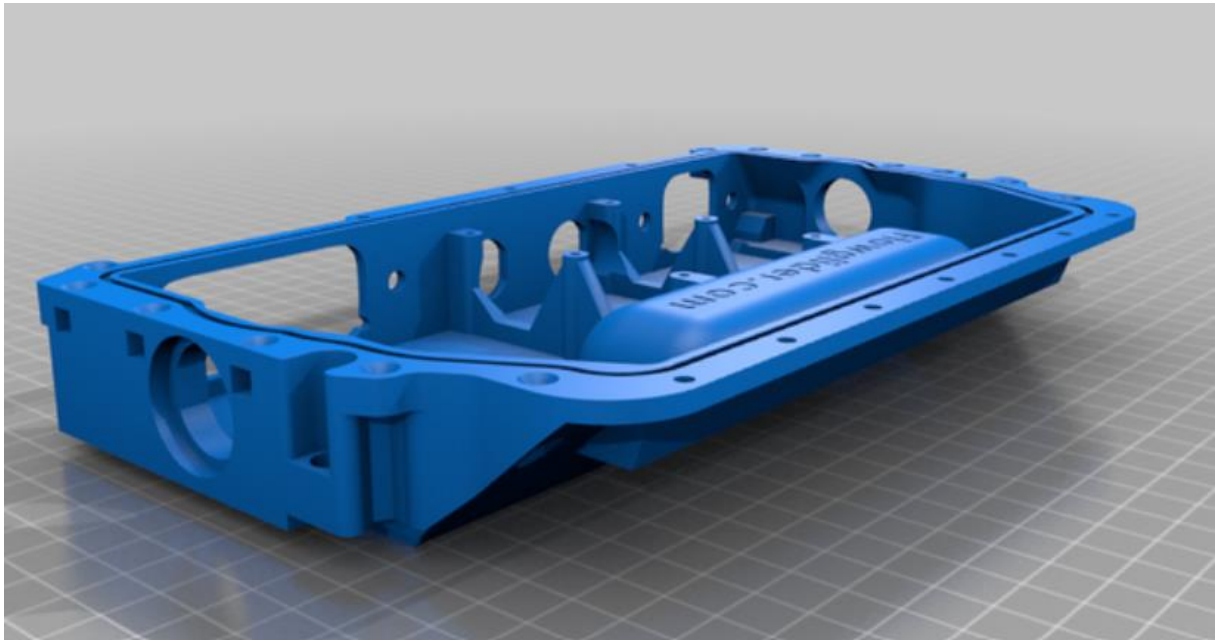
# Build your own WTFoc box.

This is an ongoing project and this instruction is not yet complete. If you have pictures that you would like to add you can email them to: [flowglidershop@gmail.com](mailto:flowglidershop@gmail.com).

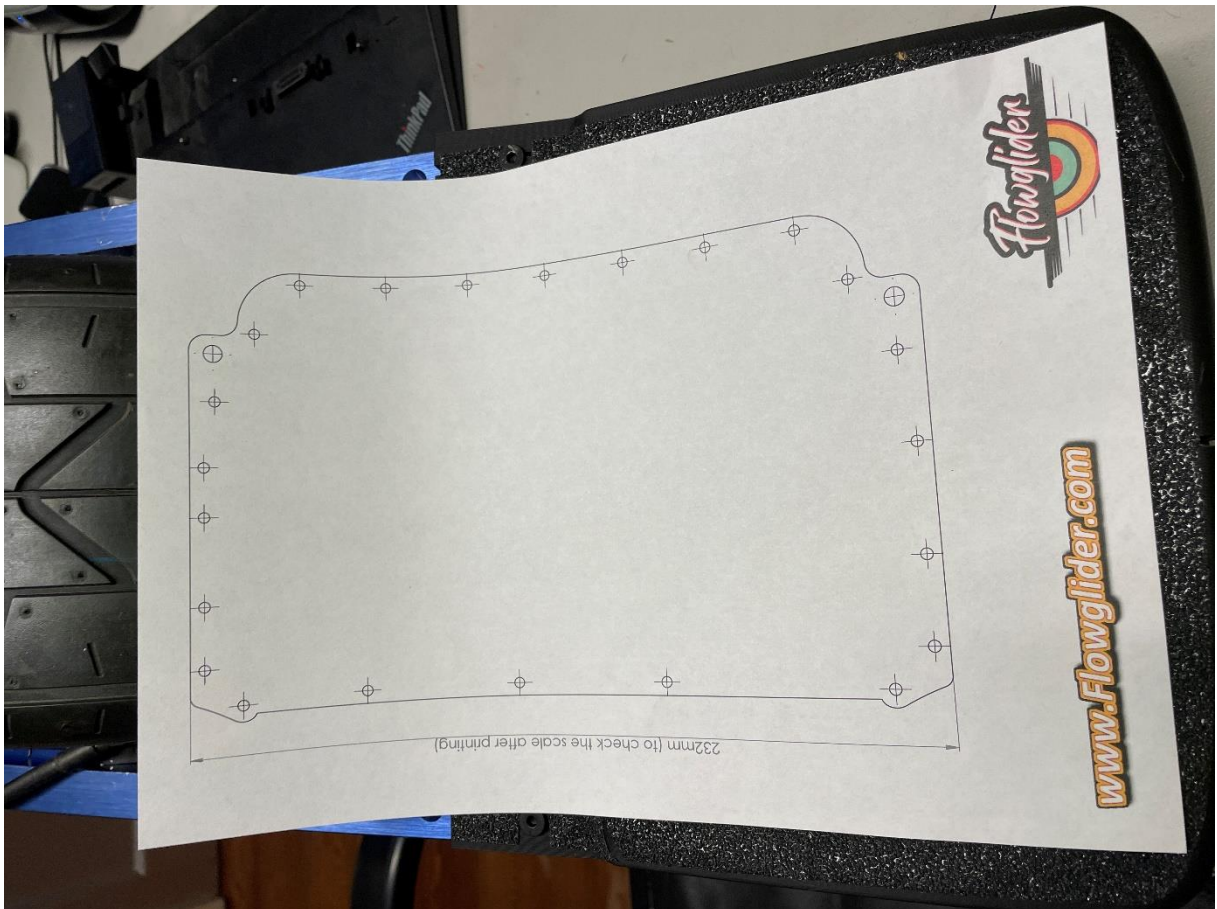


First go and print your casing. You can download it at thingiverse at:

<https://www.thingiverse.com/thing:4873913>



You can also download a template for the lid there that you can print out and use to cut out the lid out of a sheet of 1.5mm aluminium. (or 1/16th of an inch)



Or you can 3d print the lid file and use that as a template.



Or you can use the lid in the hardware pack you can order at:

<https://www.flowglider.com/index.php/product/wtfoc-hardware/>

The lid in the hardware pack has formed screw holes instead of drilled screw holes.



After you have printed your case and made/bought your lid you can add the heat inserts to the case.



These heat inserts are inside the hardware pack but you can also buy them at <https://mouser.com> with the following serial numbers:

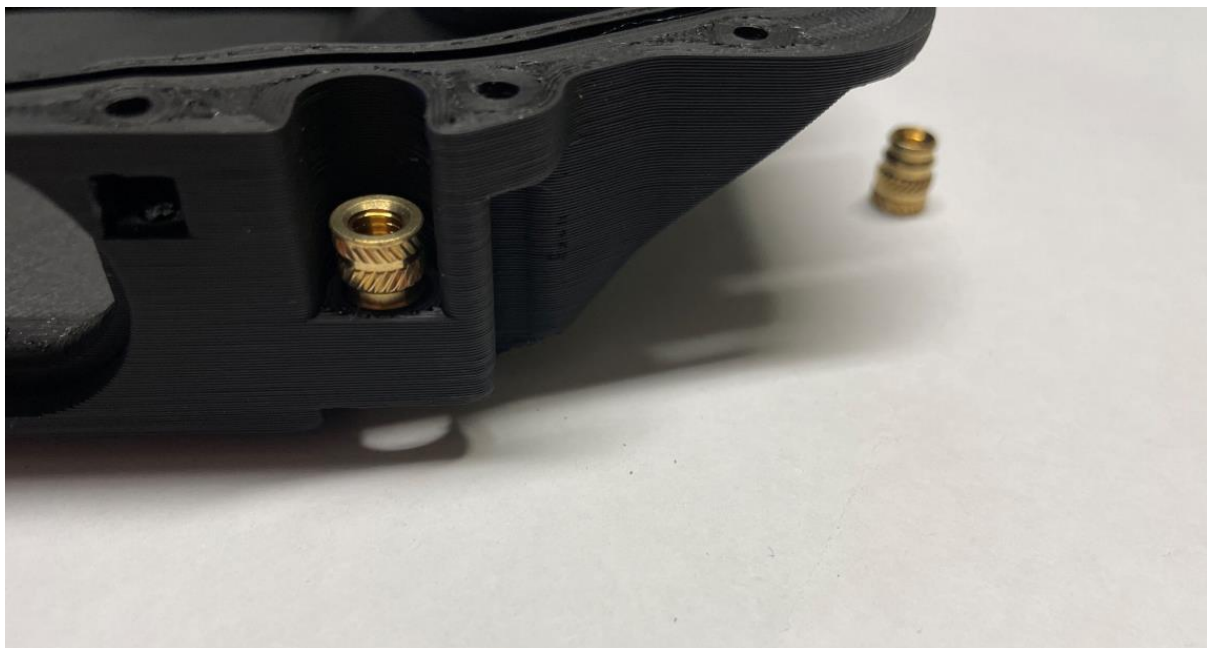
[153-IUB-032-1](#) for the short inserts.

[153-IUB-032-2](#) for the long inserts.

These inserts can be inserted using a soldering iron. I've slightly modified the tip of my soldering iron so the tip doesn't stick out of the other side. If it sticks out of the other side it might puncture a hole in the casing when inserting the short inserts.

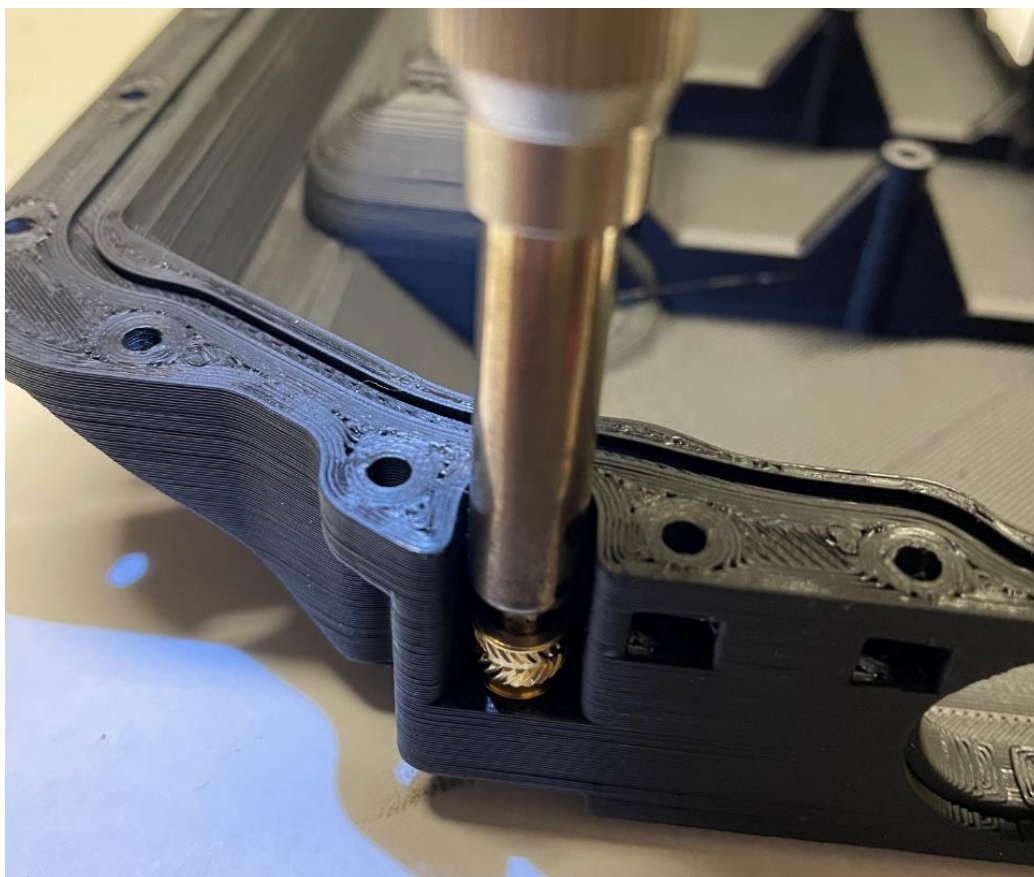


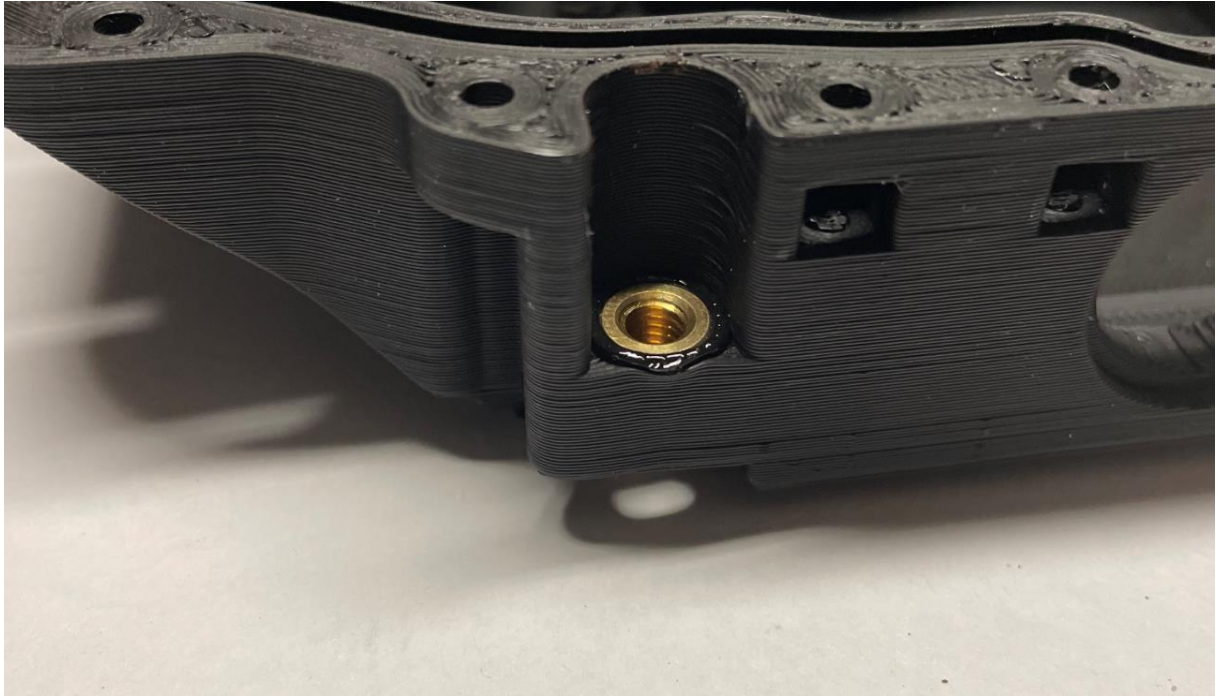
The long inserts go into the front part of the casing and are inserted from the top like in the following picture.



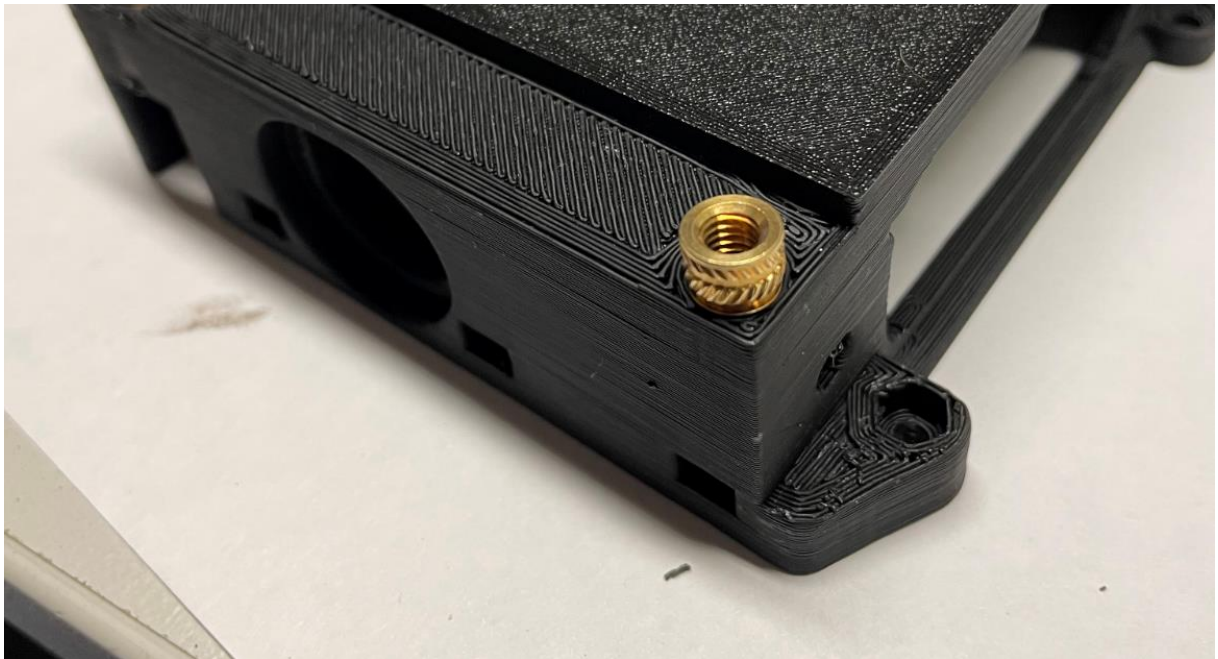
This makes it harder for the insert to get pulled out after it's inserted.

Insert the front inserts:

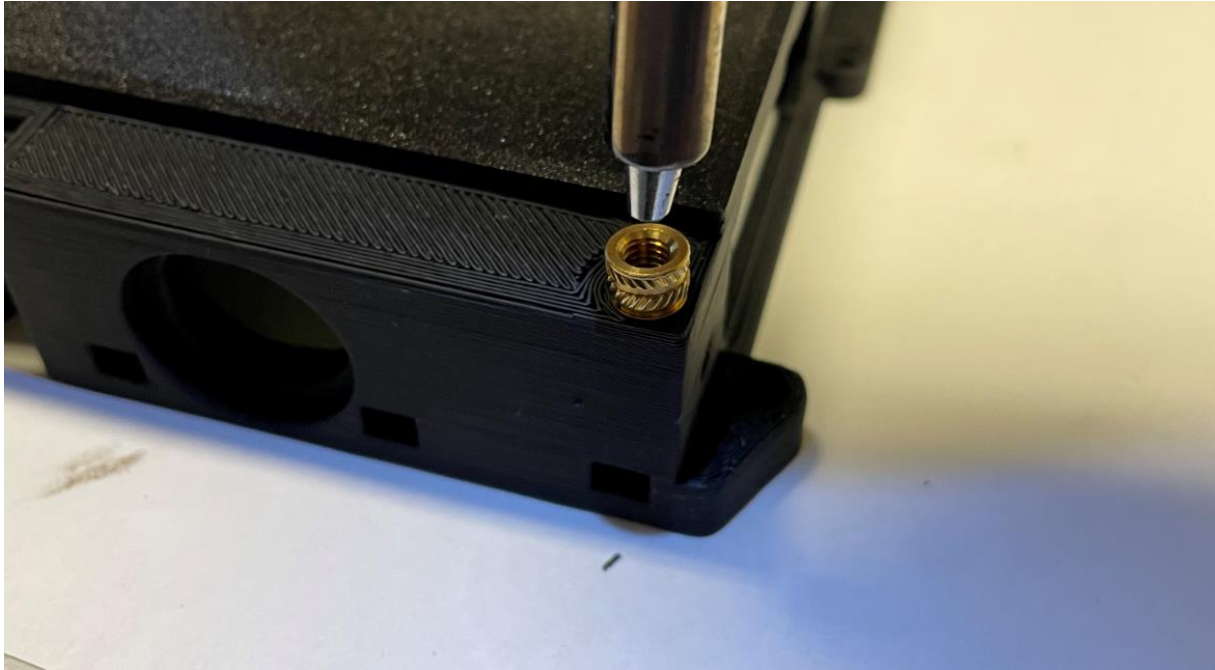




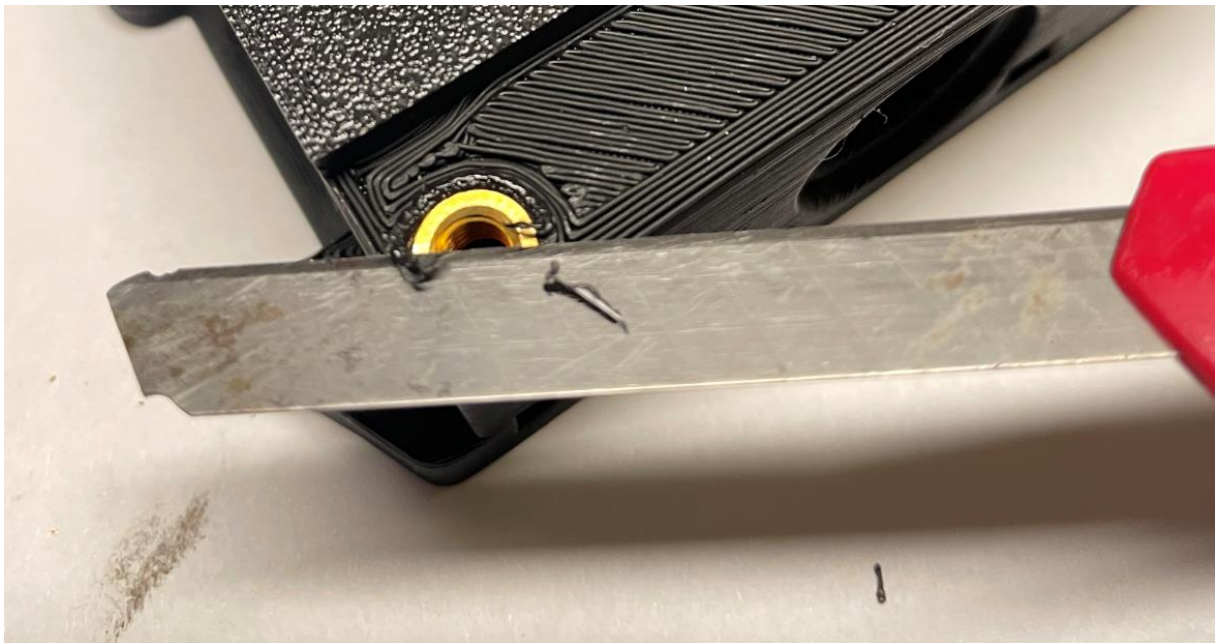
Insert the short inserts in the back of the casing:







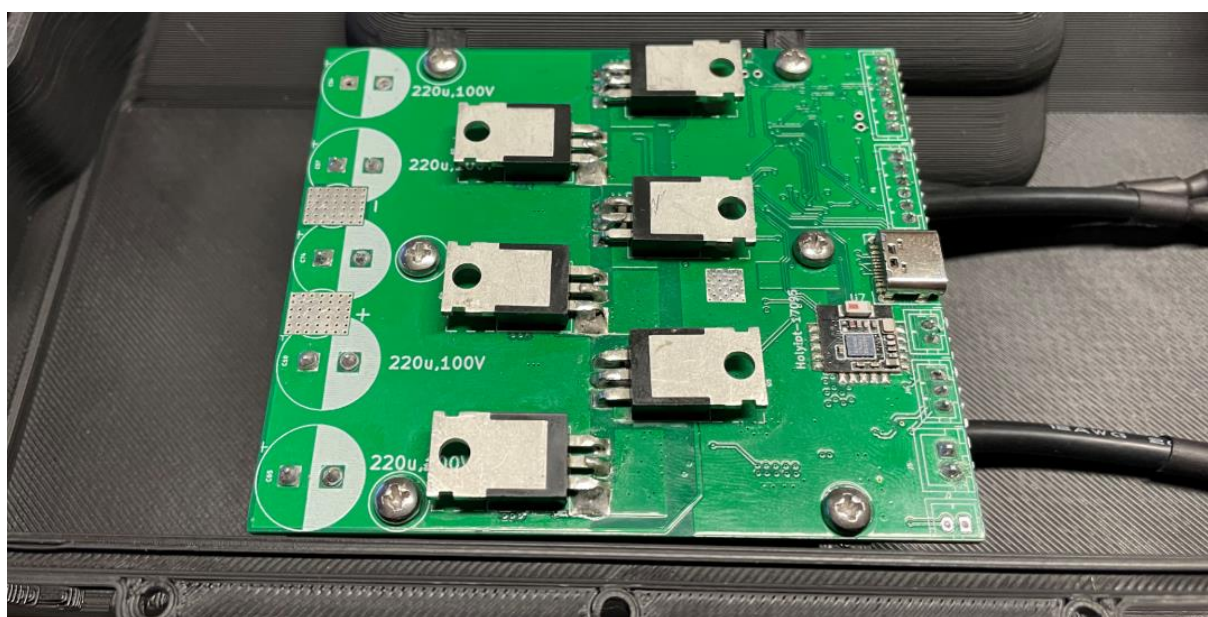
Remove the excess plastic that comes out while inserting the inserts with a utility knife or a file:



Now that the print is done you can add your little focer. You can screw the little focer inside the case using DIN 7981 2.9x9.5 screws.

These are also included in the hardware pack you can get from:

<https://www.flowglider.com/index.php/product/wtfoc-hardware/>



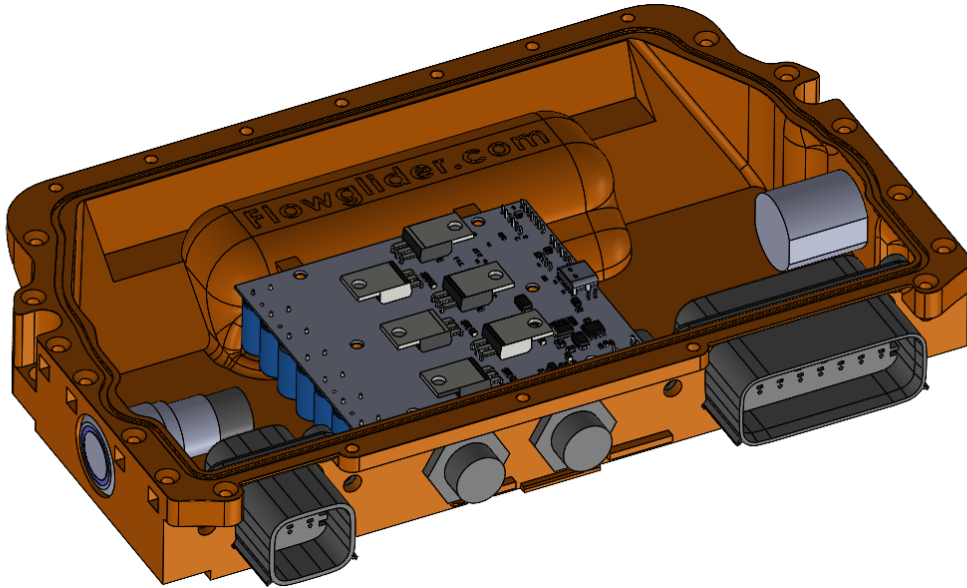


You can now install the rest of your hardware.

There are no pictures of this because when writing this instruction I didn't have this hardware.

The small molex 19429-0036 connector can be found at [mouser.com](https://www.mouser.com) under number 538-19429-0036.

The bigger molex 19429-0040 connector can also be found there under the number 538-19429-0040.



After mounting all your hardware you can add the o-ring to the groove. The o-ring groove was designed as a dovetail o-ring groove to make it easier to insert it without it popping out.

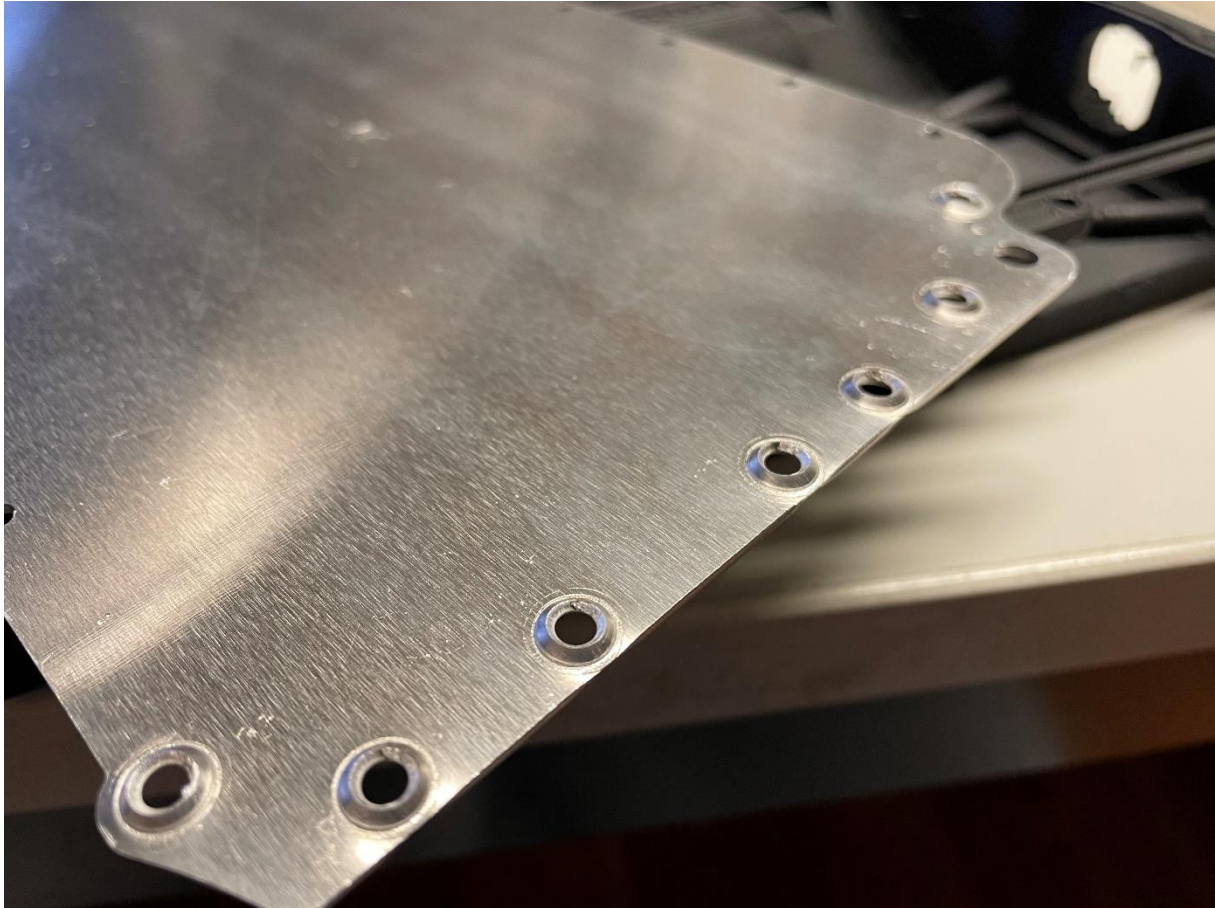
Insert a 2mm o-ring cord inside the groove.

The o-ring cord is added to the hardware pack you can get from [flowglider.com](https://flowglider.com).

Work your way around until both ends meet and cut it to size. After it is cut to size you can glue the ends together using cyanoacrylate glue. After this you can insert it back in the groove.

After this you can add the lid. You can get a lid with formed screw holes from [flowglider.com](https://flowglider.com) where it is included in the hardware pack.

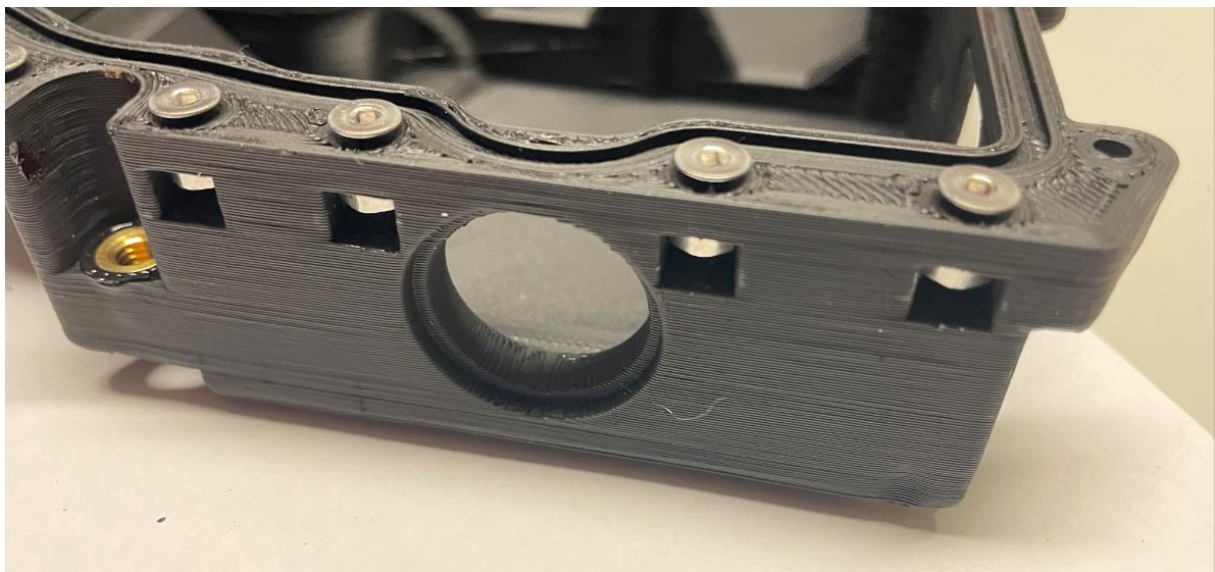




The lid can be screwed to the case using M3x8 screws and M3 hex nuts.

The screws on the front and the back of the case have the nuts on the top, the screws that sit on the sides and are covered by the rails have the nuts at the underside.

At the side the hex nuts are slid in from the side:



Now go ahead and finish that thing!



