

FLipMouse - Sensorboard - Luer Lock Mounting

Fabrication Note v1.0, AsTeRICS Foundation



Scope

The mouthpiece on the FLipMouse is mounted via a standard Luer lock connector. The female Luer with a M5 thread is mounted in the sensorboard PCB with 2 washers.

Preparation

Material

Nr.	Description	Source
1	Fully assembled sensorboard PCB	Aisler.net / any other PCB manufacturer
2	2x Washers, 3D printed (must be plastic!)	Print it yourself, source: FLipmouse/Hardware/case-design/FM3_LuerSpacer.stl
3	Female Luer Lock, metal with M5 thread	Droh.de, VBM-CHLLF05

Note: Material will be referenced in square brackets: []

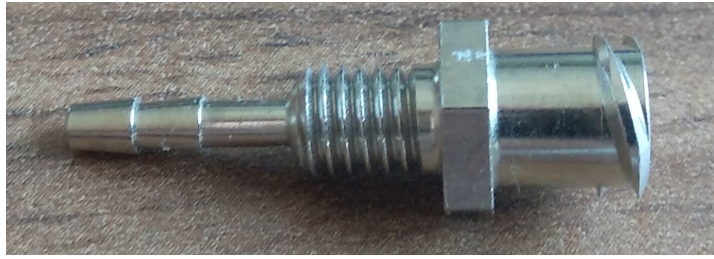
Tools

Nr.	Description	Source
1	2x 8mm hex nut driver (manual tool, not in an electric drill!)	DIY store
2	Super glue	DIY store

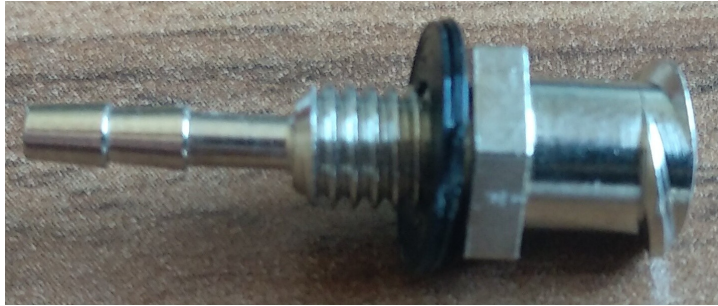
Note: Tools will be referenced in curly brackets: {}

Procedure

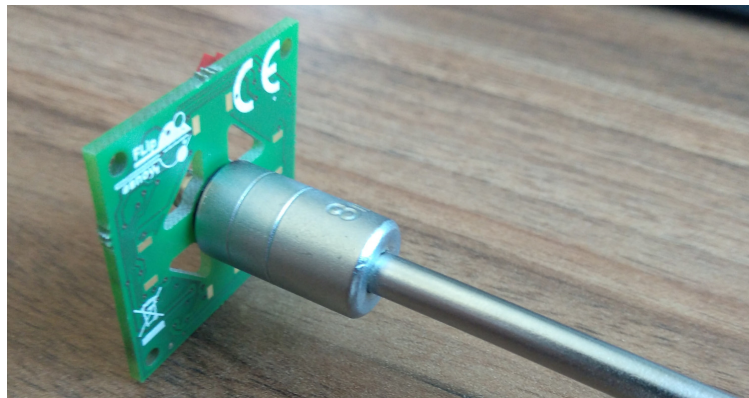
1. Remove the M5 hex nut from the Luer Lock [3]



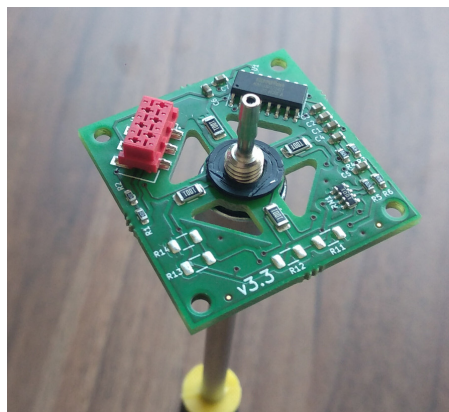
2. Place one plastic washer [2] on the Luer Lock



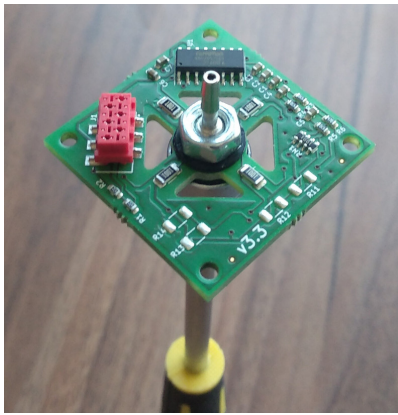
3. Use the hex nut driver {1} to screw the Luer Lock into the sensorboard PCB [1]



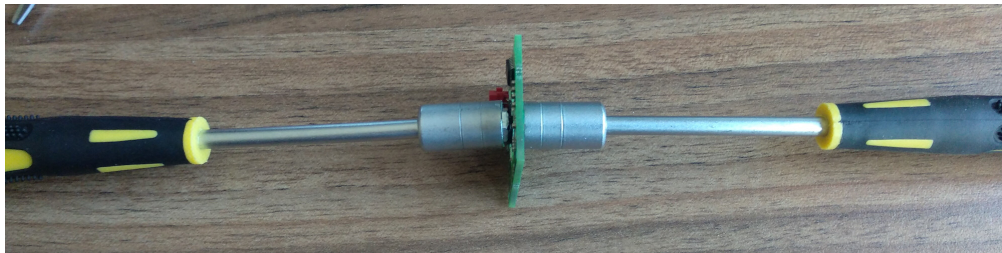
4. Place the second washer on the opposite side



5. Place the hex nut on the Luer Lock



6. Use both hex nut drivers to tighten the screws



7. Put super glue {2} on both sides of the PCB.

Testing

Tools

None

Procedure

1. Try 3 times to screw / unscrew a mouthpiece.

Documentation

TODO: do we need documentation for this step? If yes, copy a template from a different fabrication manual.