

Resonant Cavity Holder Dimensions, STLs

These replicated cavities are the ones used on the buggy. Some machining is required for the inner electrodes, cost effectiveness may not be ideal for many experimenters. Therefore, a 3D printable and glue-together template was made to allow those with simple hand tools (grinder or Dremel cutoff wheel) to be able to cut slots into a 1/2" tube. In addition to this template, a 3d printable insert can be pressed or hammered into the inner diameter portion of the inner tube to provide analog to having a solid electrode.

Inner electrode dimensions: 4.00" length, 0.500" outside diameter, 0.400" inside diameter, 0.050" wall

Outer electrode dimensions: 2.75" length, 0.75" outside diameter, 0.680" inside diameter, 0.035" wall

The terminal holes should be drilled out to receive a 1/4-20 tap.

Inner Electrode Templates:

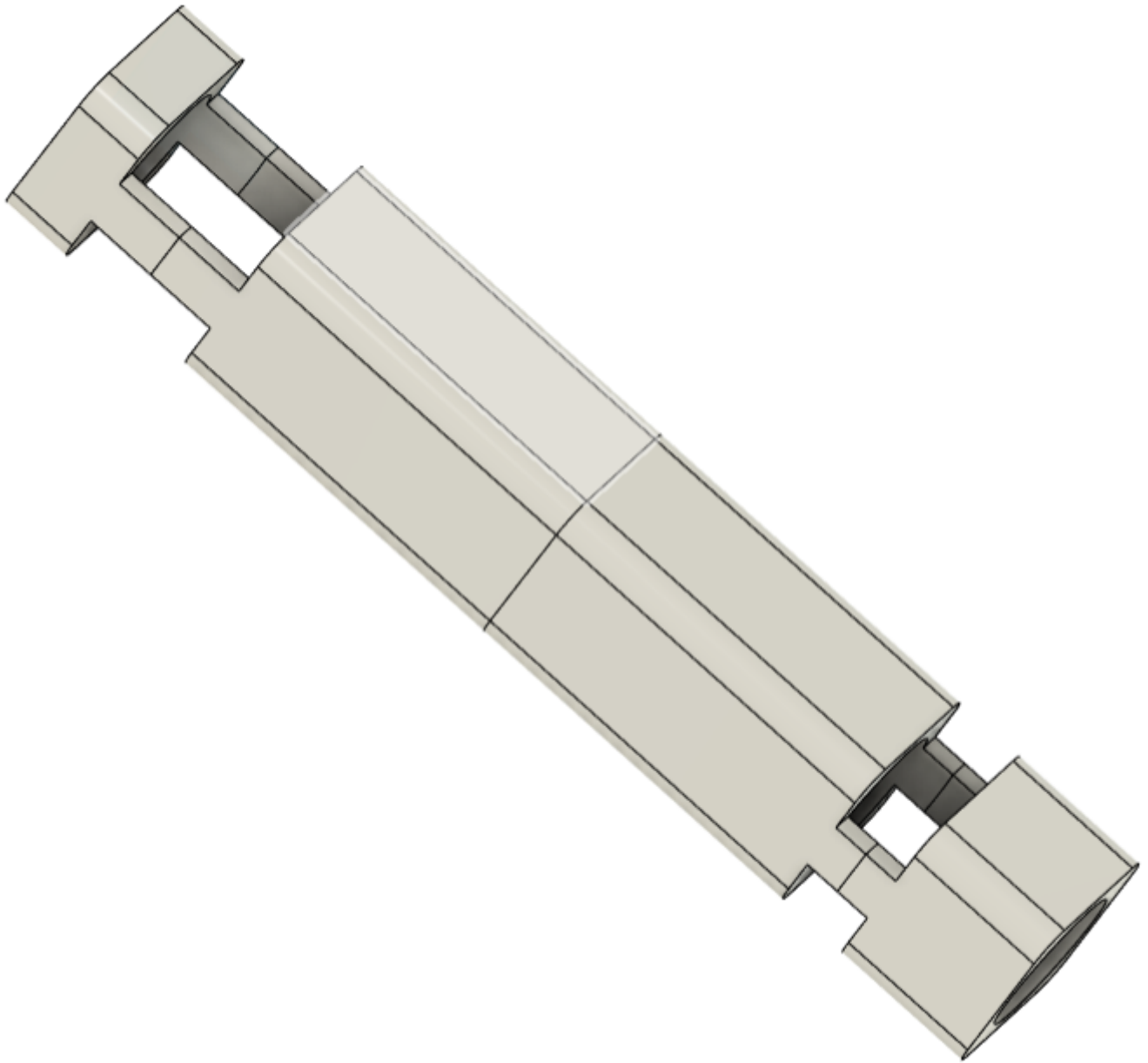
[Part A Resonant Cavity Holder.stl](#)

[Part B Resonant Cavity Holder.stl](#)

[Part C Inner Electrode Template.stl](#)

[Part D Inner Electrode Template.stl](#)

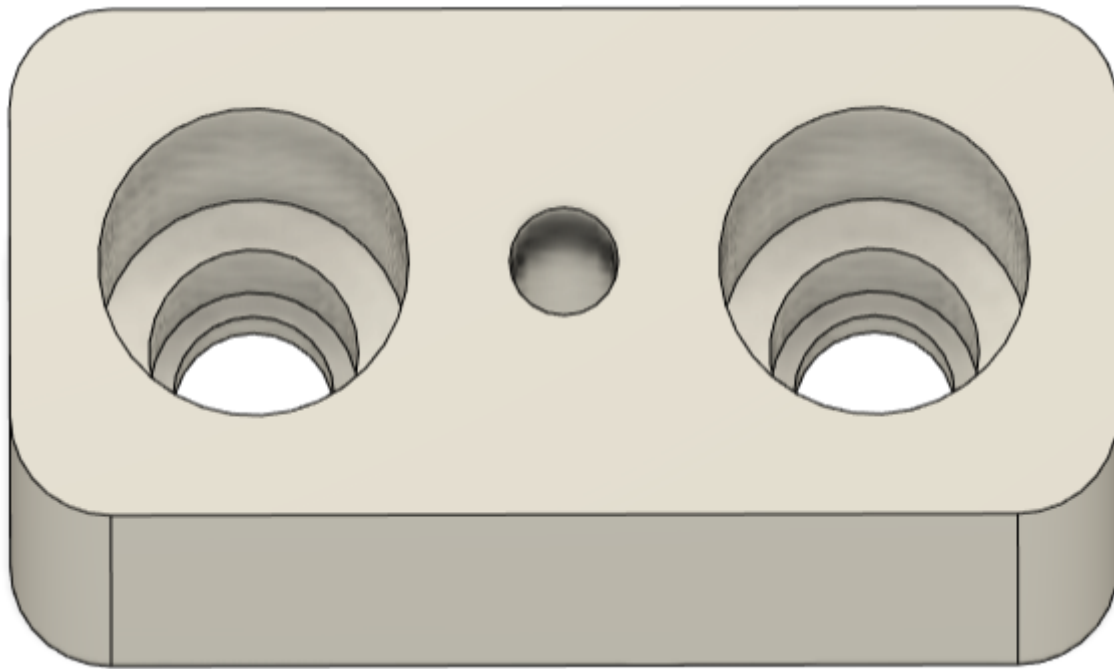
[Inner Insert.stl](#)



Cell Holders:

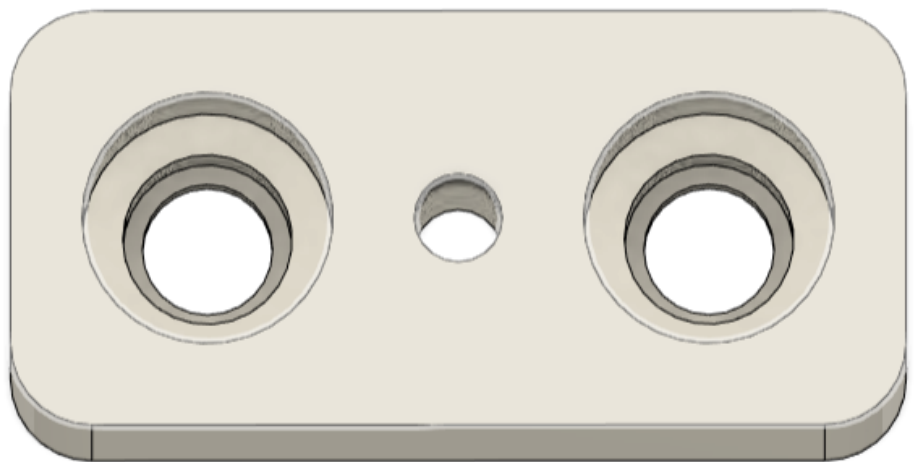
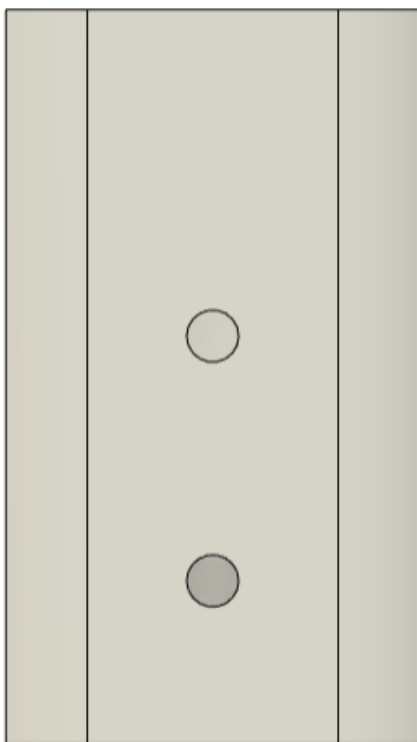
Part A:

[Part A Resonant Cavity Holder.stl](#)

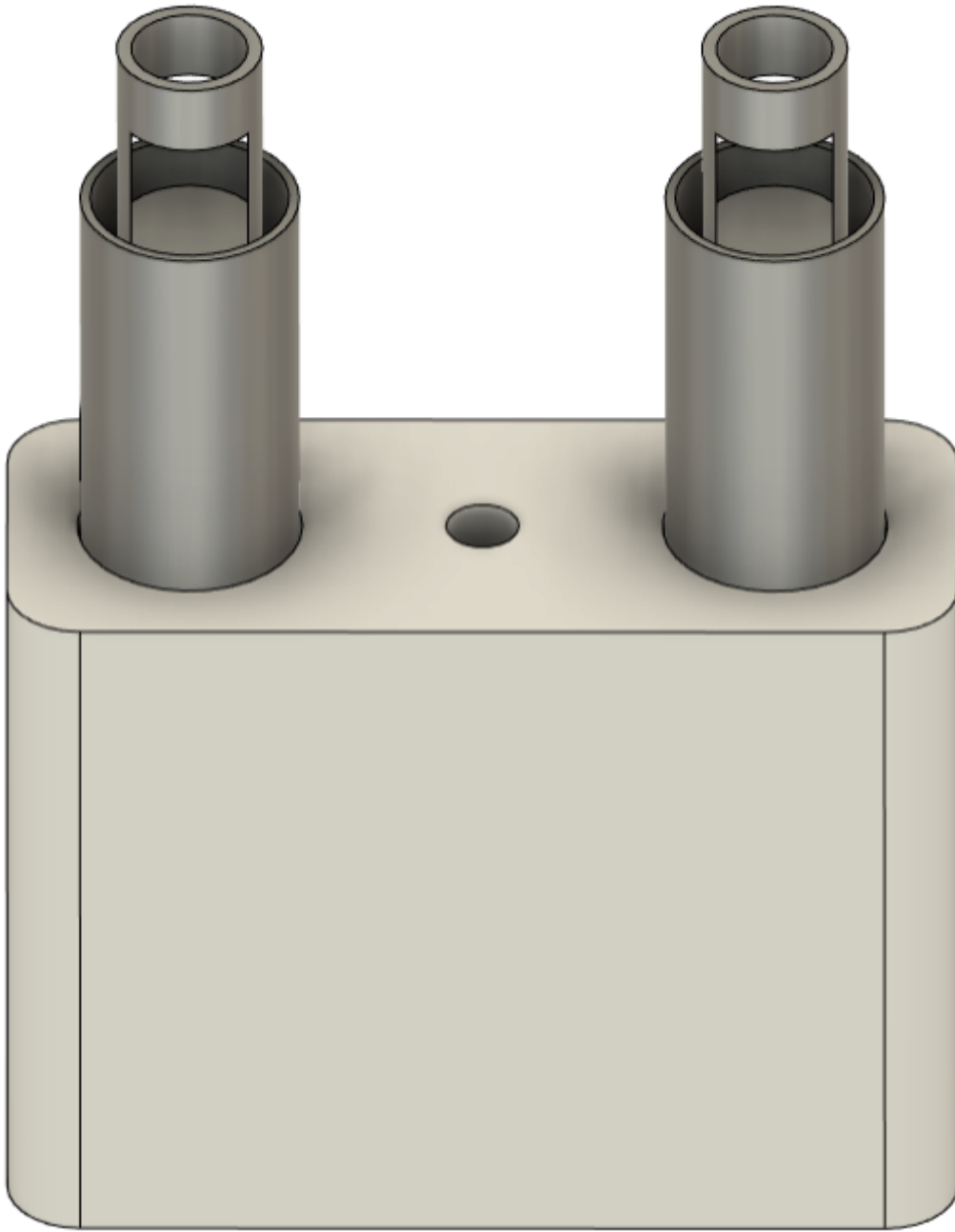


Part B:

[Part B Resonant Cavity Holder.stl](#)



Assembly with Electrodes



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