MA1. Battery Holder

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In this assignment I rougly build the 4AA 6V battery holder. Here is a link to the final product. https.//a360.co/3uJ9pQ1

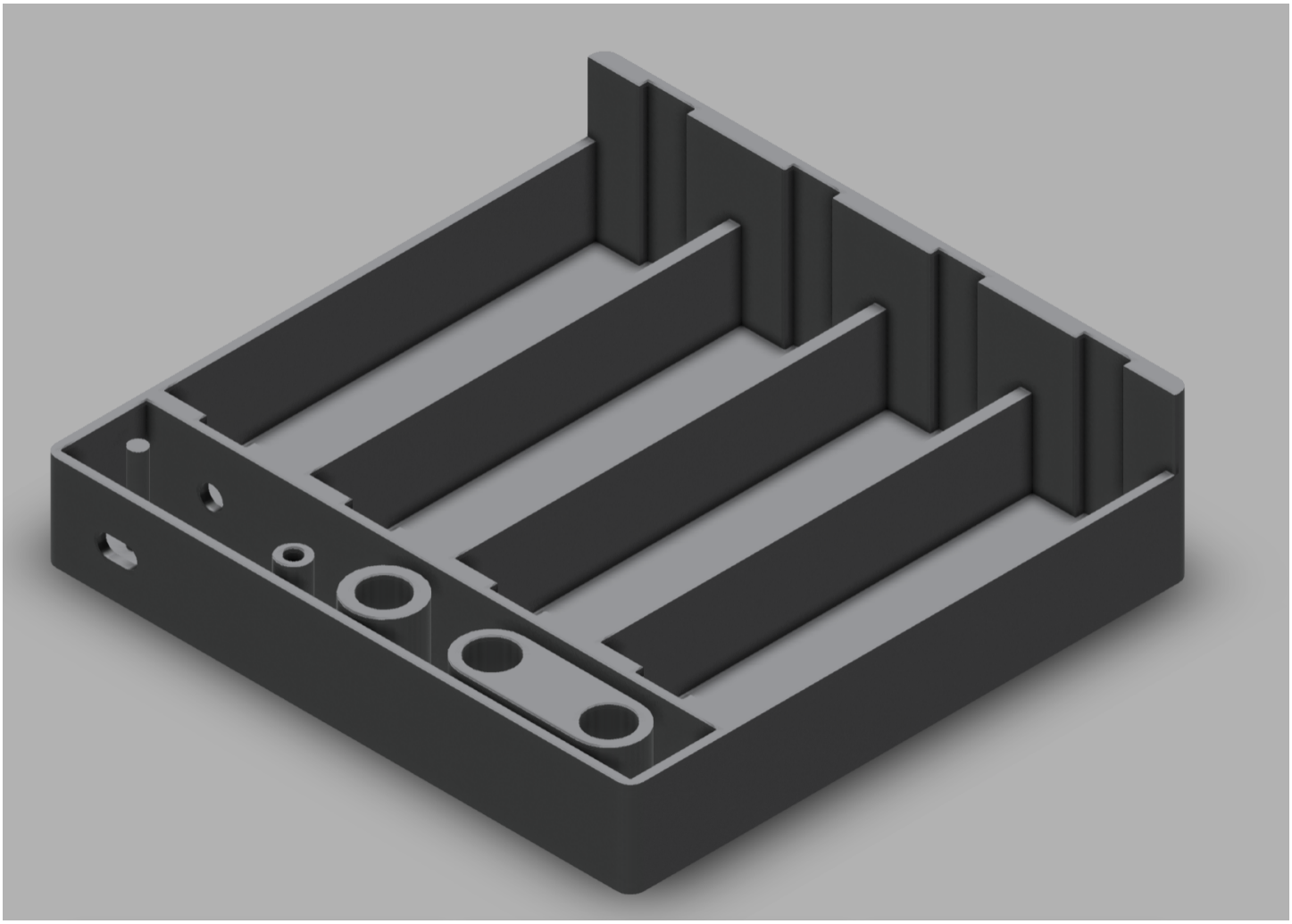

Figure 1: The final product.

For reference I include the schematics here.

Steps to reproduce the battery Holder

1. Create the basic shape of the battery holder using the `sketch rectangle` tool and shape extrusion.
2. Using various rectangle sketches create a battery shape which should be slightly larger than an AA battery. Use reverse extrusion to create a battery shaped inset.
3. Using the `Rectangular Pattern` replicate the feature (i.e. the battery shaped inset) four times.
4. Create another inset for the various components at the bottom of the battery holder.
5. Using a new rectangular shape, select most of the battery holder except its top part. Then do reverse extrusion. This will make space for a lid for the battery holder.
6. Create various components for the bottom part of the battery holder including slots for wires.
7. Finally, fillet the edges of the battery holder.

Steps in images

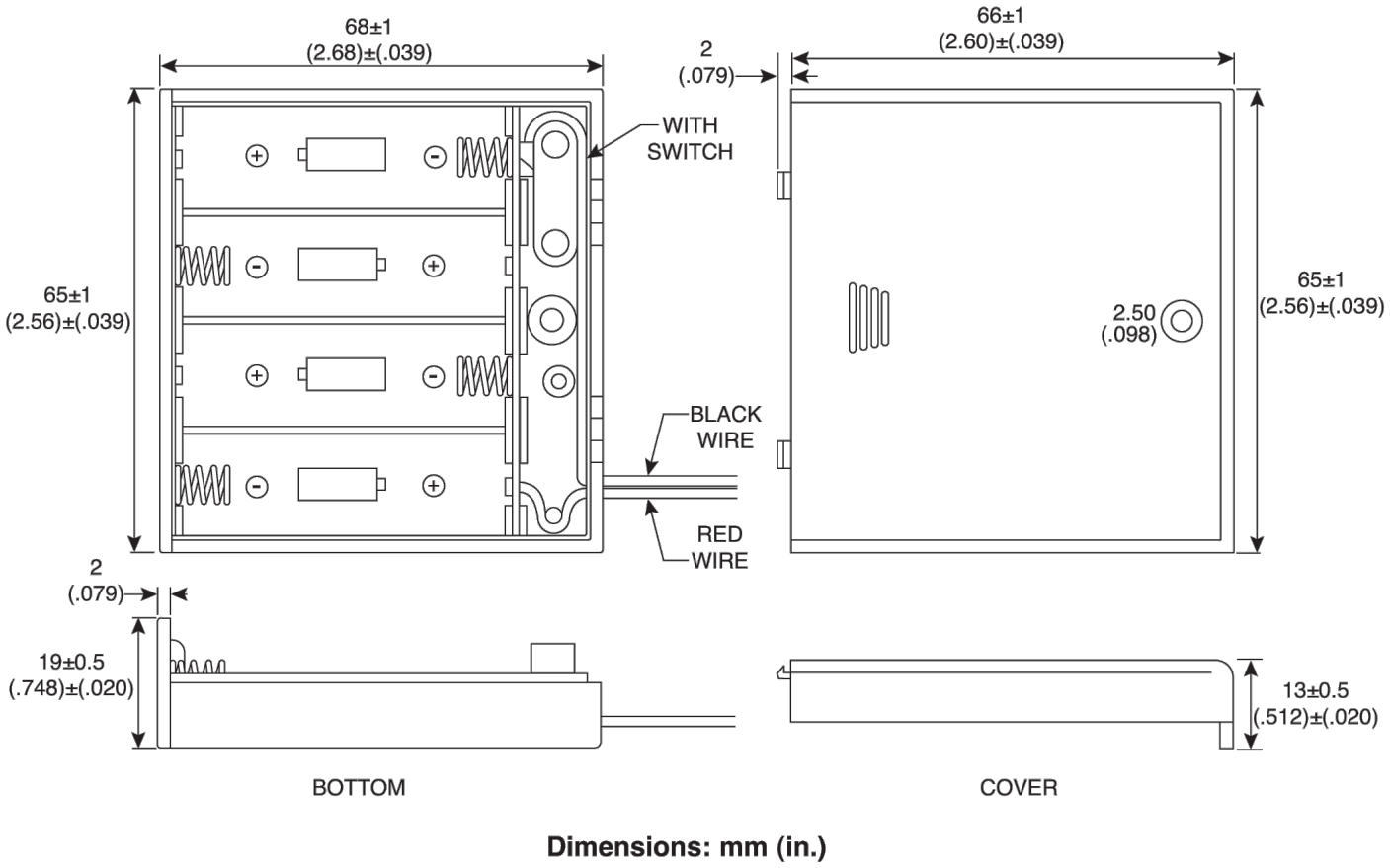

Figure 2: The schematics used.

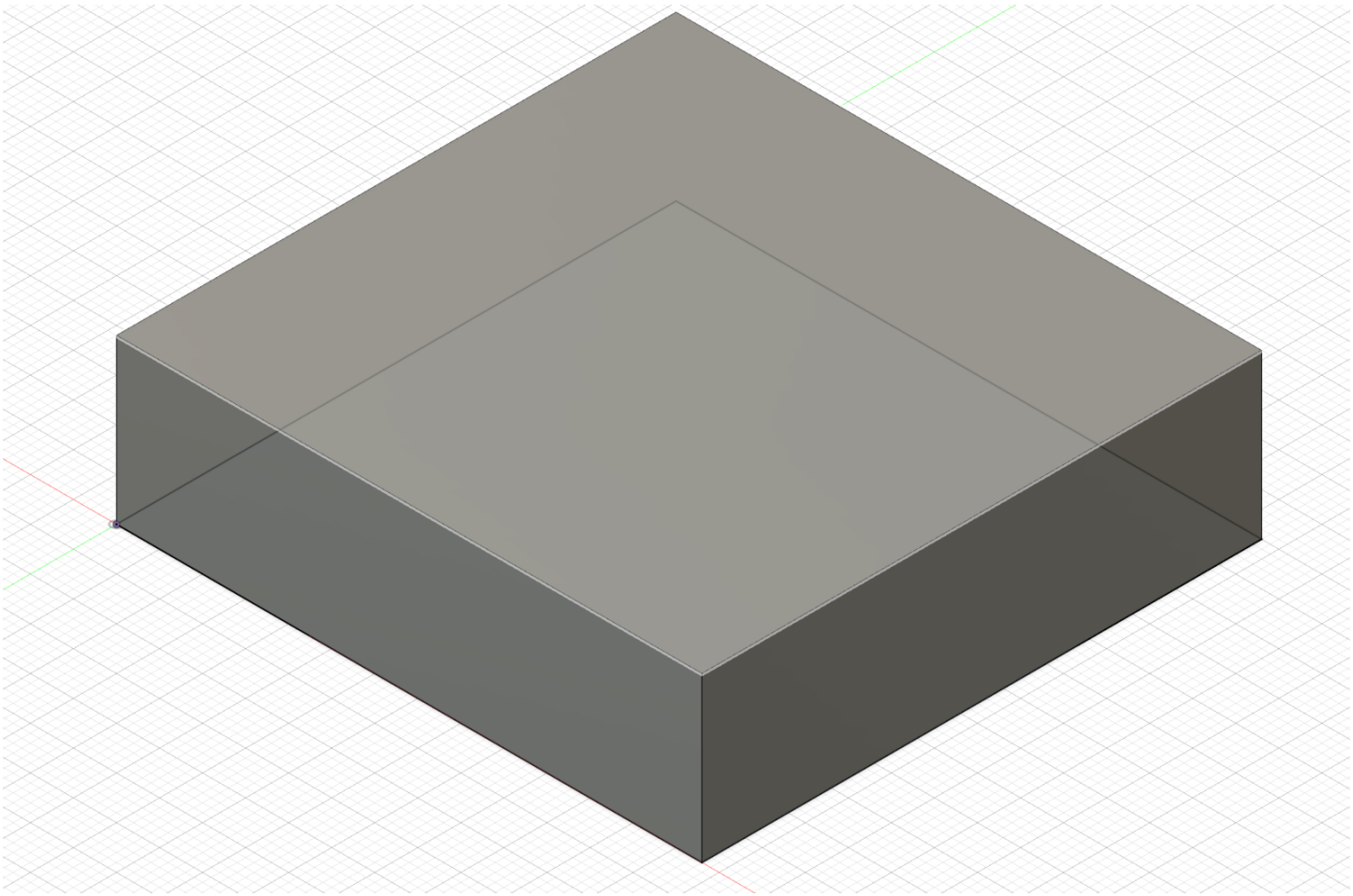

Figure 3: Step 1.

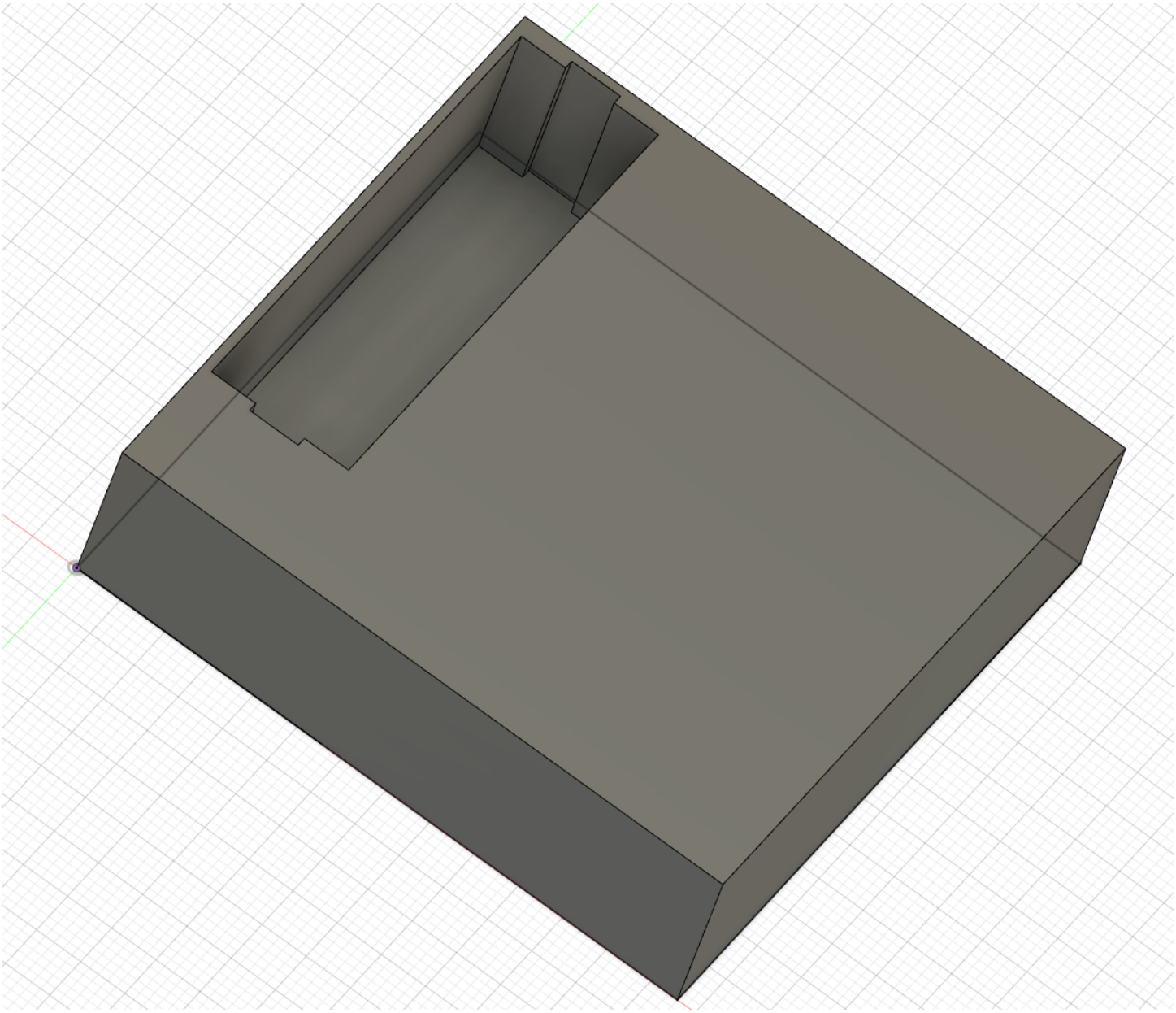

Figure 4: Step 2.

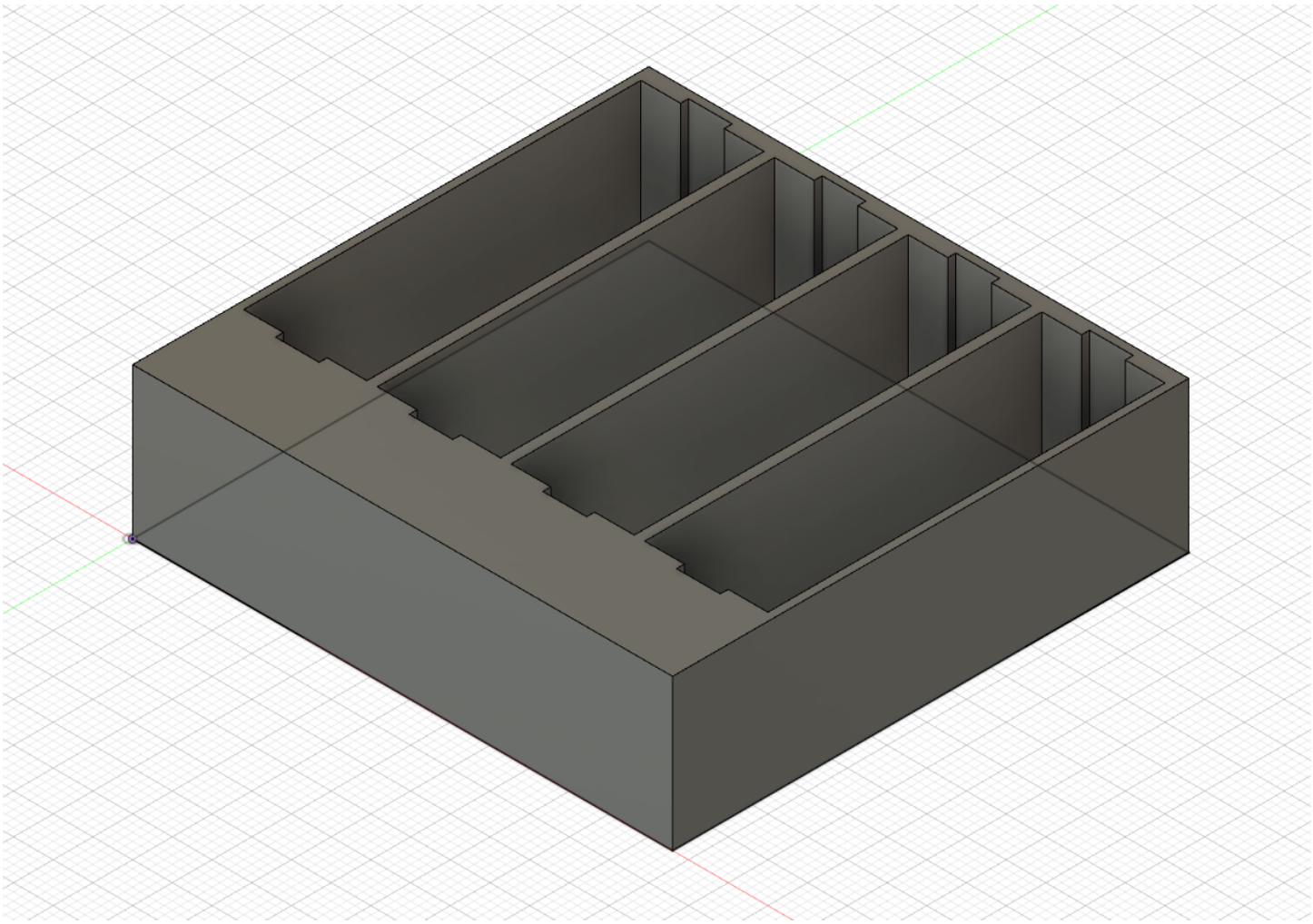

Figure 5: Step 3.

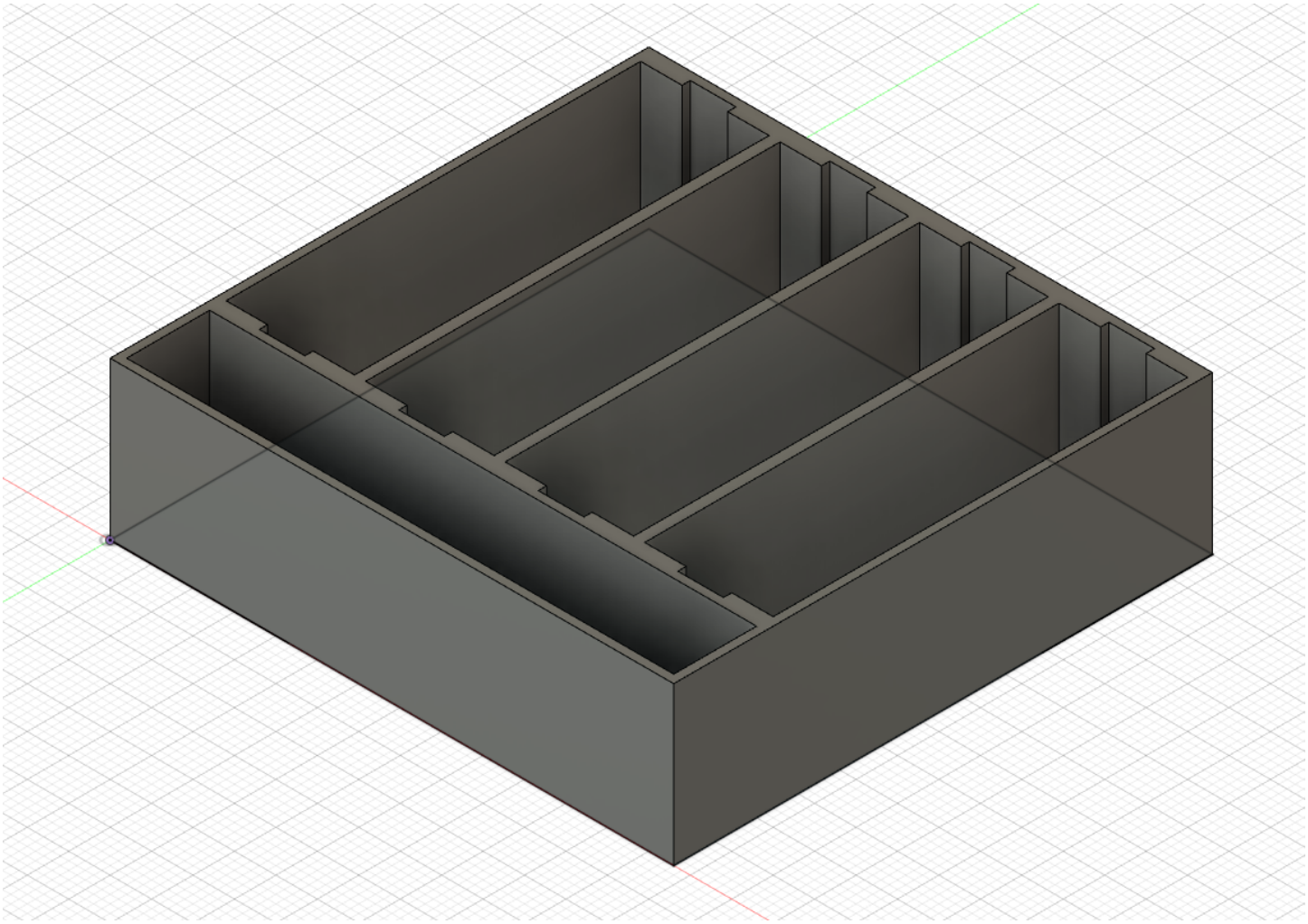

Figure 6: Step 4.

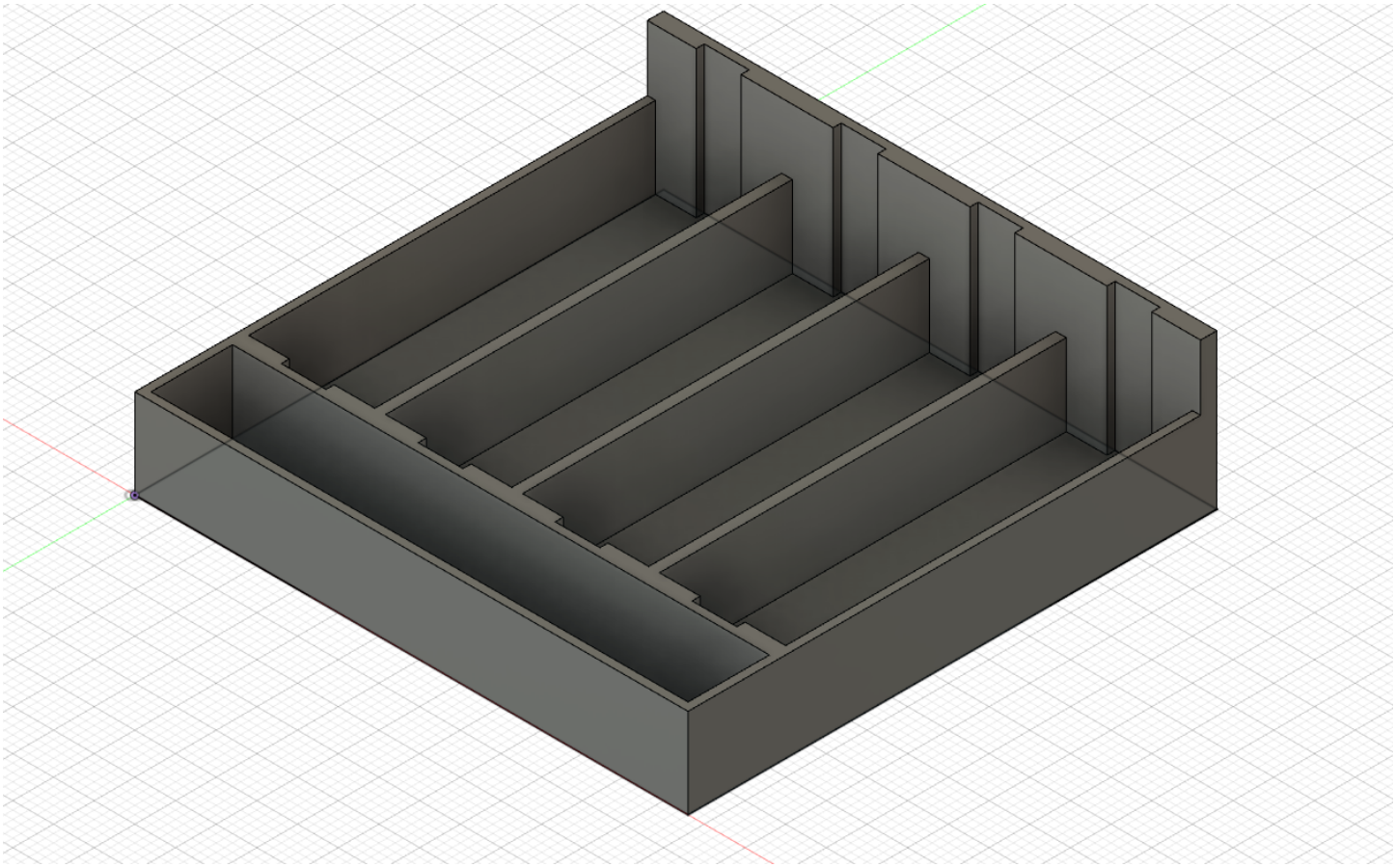

Figure 7: Step 5.

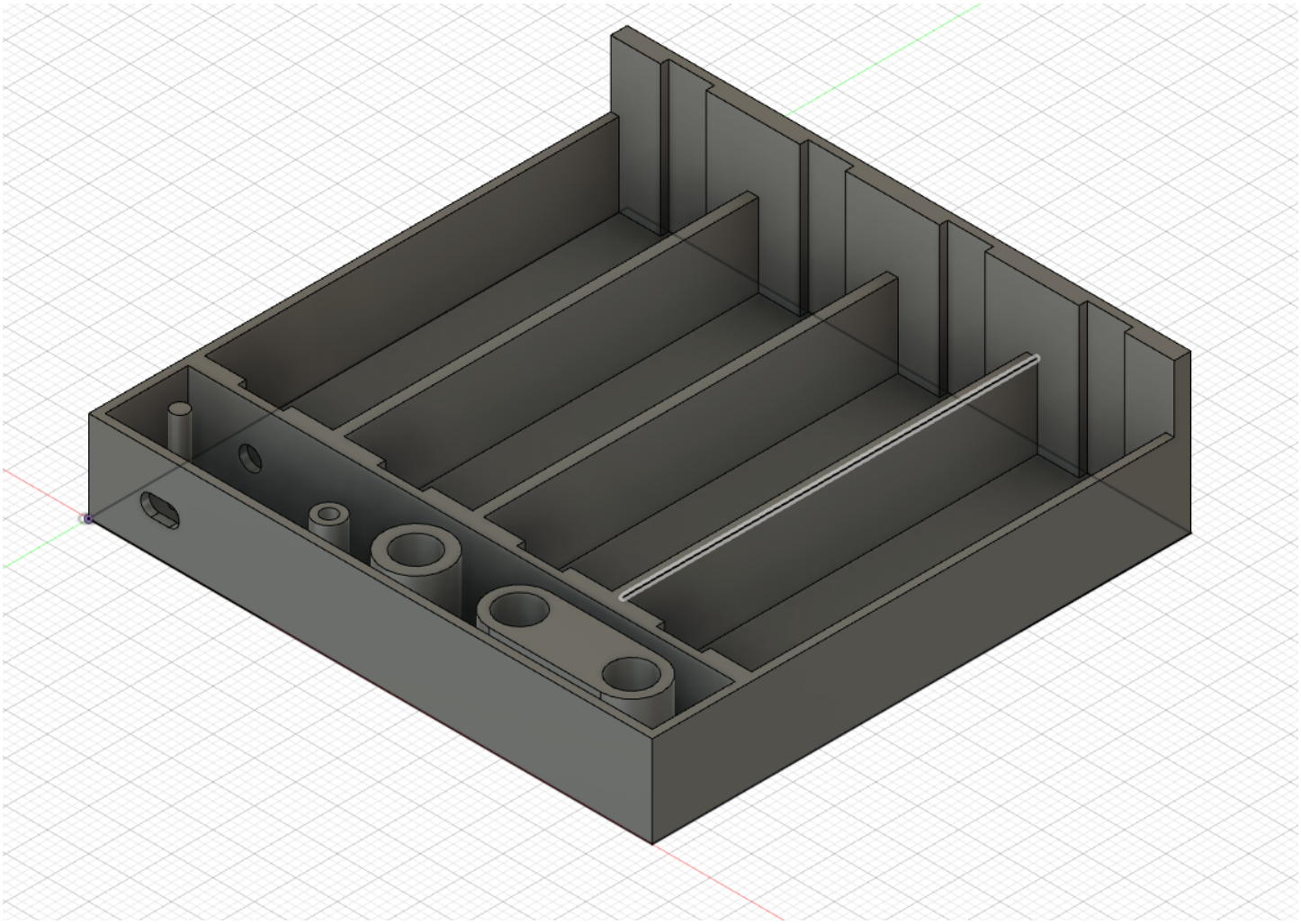

Figure 8: Step 6.

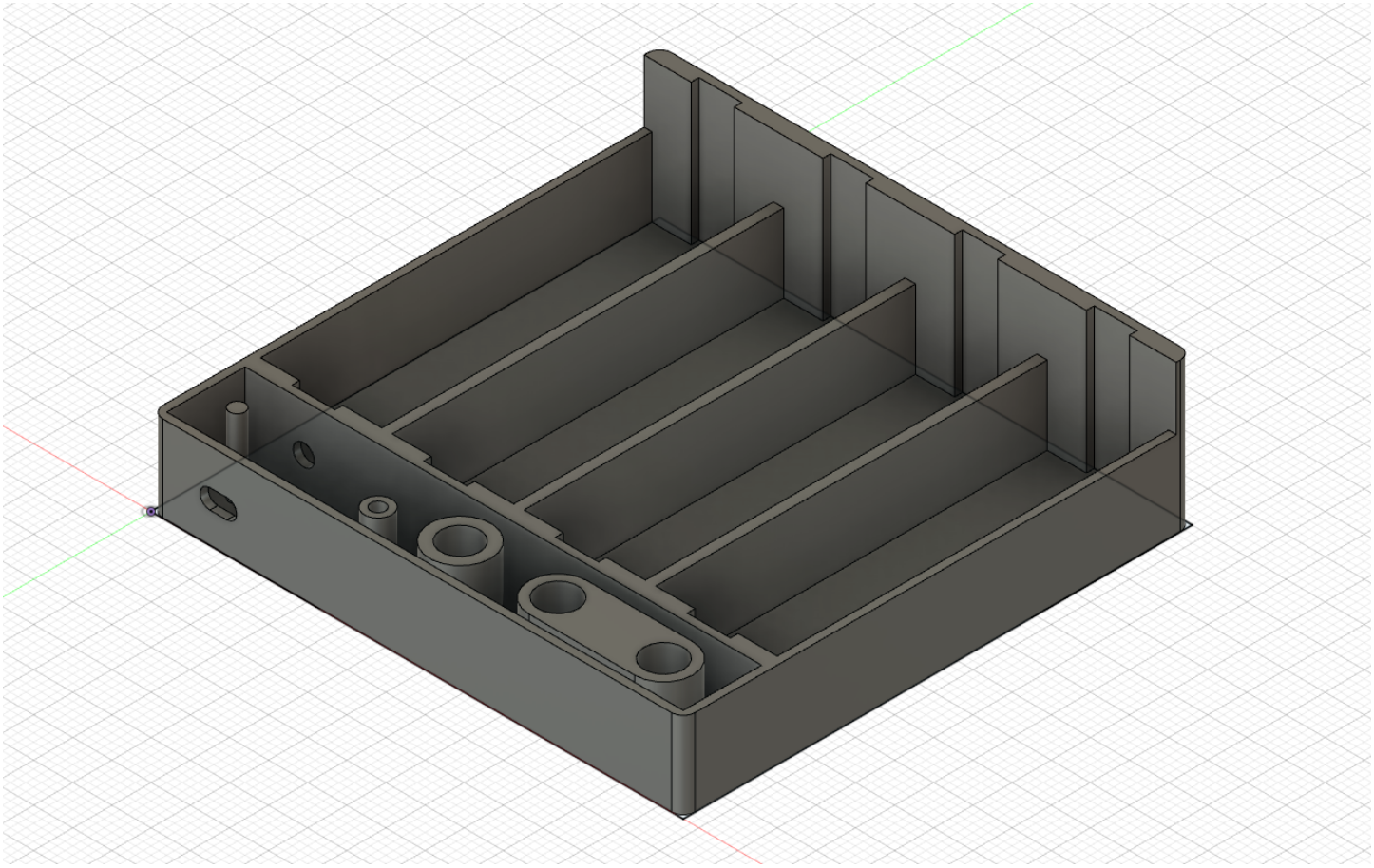

Figure 9: Step 7.