Mega SAFE

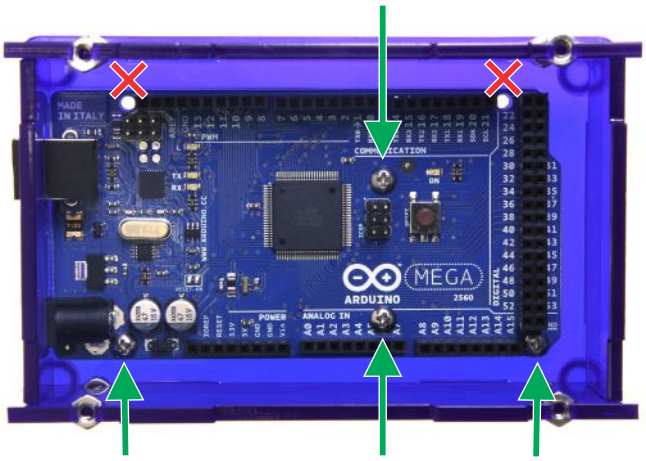
Documentation for the Solarbotics Arduino/Freeduino Enclosure

SKU: 60105 solarbotics.com/products/60105

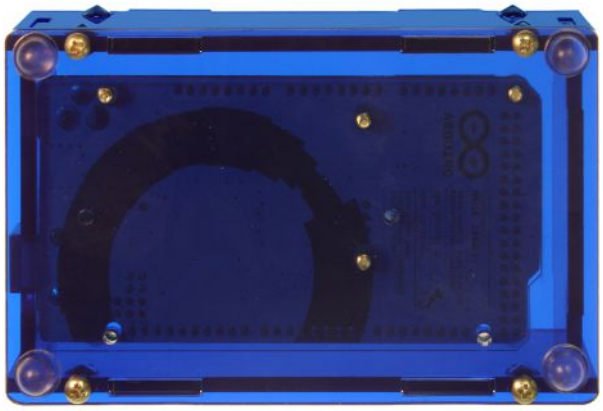
Clever eh? Took us much less time to come up with the name than the design itself to get things *juuust* right. Feel free to cut your own S.A.F.E. with this design file.

Parts required:

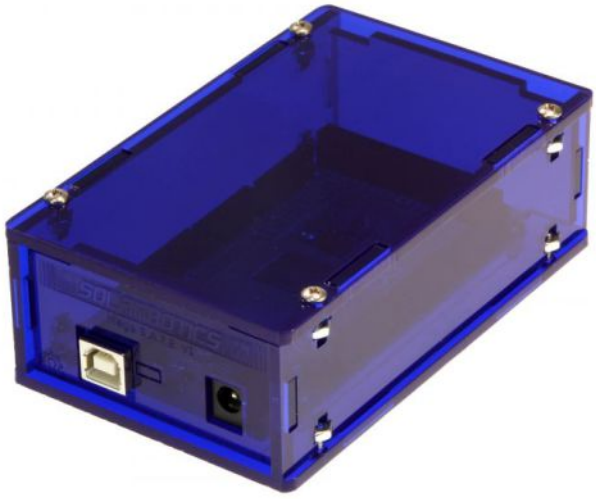
3mm Acrylic
12 x #4-40 x 3/8 bolts
8 x #4-40 Hex Nuts
4 x #4 Nylon spacers
4 x Little Rubber Feet (aka: LRF)



Place mounting bolts in the indicated locations, as they won't fit where the 'X's are, due to the headers.



Mounting bolts thread into the acrylic and protrude a little out of the bottom, but the rubber feet more than compensate for them.



Solarbotics Ltd.
3740D - 11A Street NE, Suite 101
Calgary, Alberta T2E 6M6
Canada

Toll Free: 1-866-276-2687
International: +1 (403) 232-6268
Fax: +1 (403) 226-3741
Made in Canada

For easy assembly, follow these steps:

1) Place the spacers on the baseplate, then screw the Arduino Mega/Uno or Freeduino to it with 4 of the #4-40 bolts.

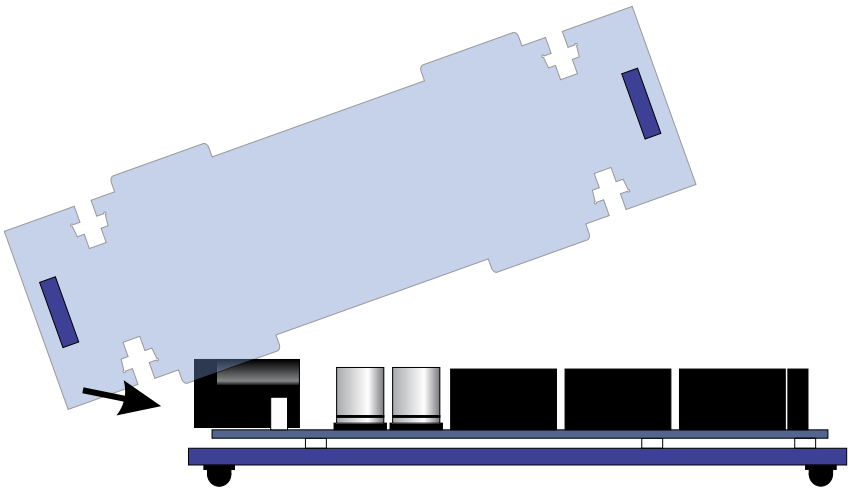
2) Put the power switch tab on the power switch (Freeduino only).

3) Slide the nuts into the T-Slots

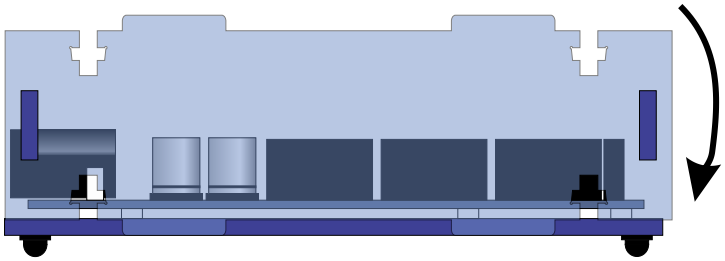
Note: If it's hard to insert the nuts, try putting them in from the *other side.* Lasering makes one side a bit more open than the other.

4) Nest together the 4 pieces that make up the walls of the enclosure (*not* on the base plate). Make sure the face plate is right-side-up and out.

5) While tilting the 4-piece assembly, slip the faceplate onto the Arduino/Freeduino (plus power switch if applicable), and then rotate the assembly down flat into the slots on the baseplate. Then just thread the remaining screws into the nuts and now the enclosure is finished! Well not quite... Put a lid on it! No, we're not being rude, just screw down the top plate on the SAFE and it's complete.

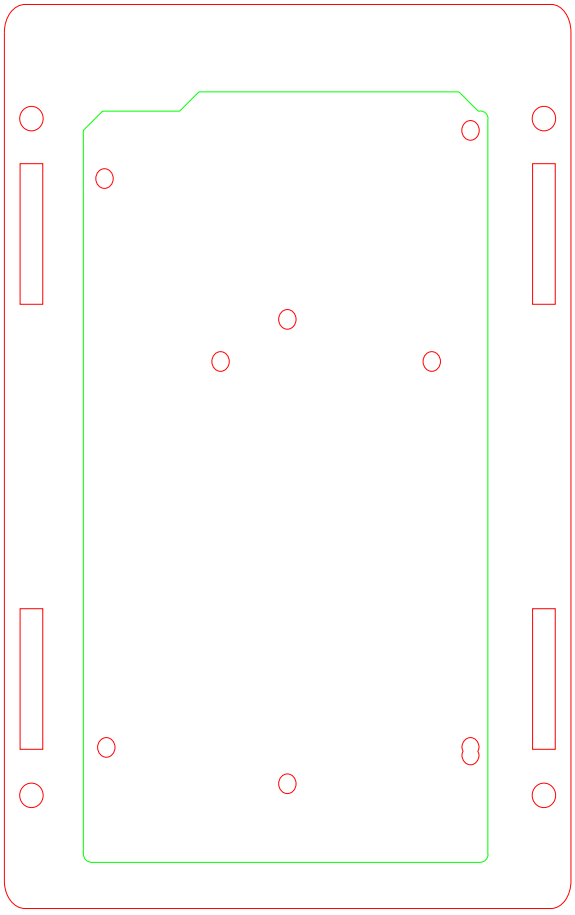


Assemble the 4 walls, and install the set by slipping the faceplate over the USB jack and power switch *first.*

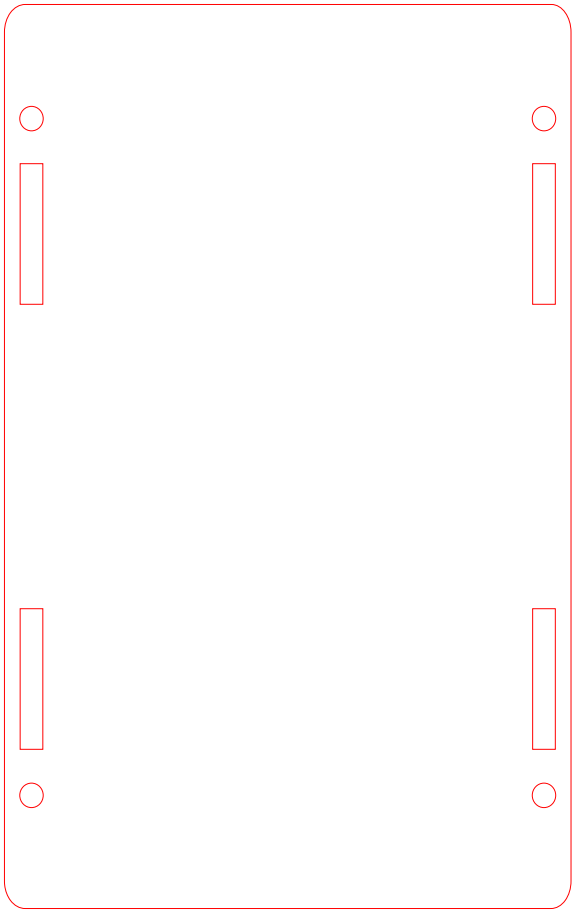


Things to Note:

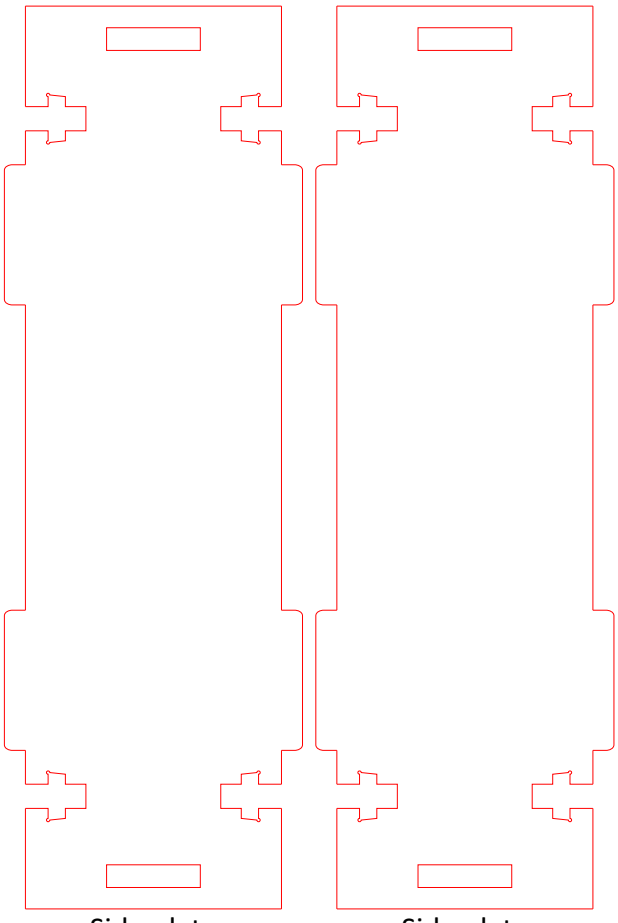
- Both the Arduino Uno and Solarbotics Freeduino are compatible with this housing - it's quite handy if you need a bunch of extra space in the enclosure for extra accessories.
- The mounting hole closest to the external power jack has a hole pattern that accommodates the Freeduino and the Arduino hole patterns, as they're slightly different.



Baseplate with Arduino Mega outline

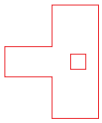


Standard top plate

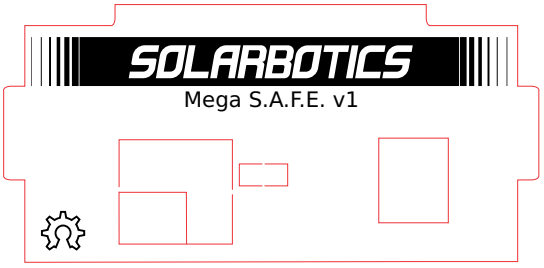


Side plate

Side plate



Freeduino
power switch



Face plate

Back plate