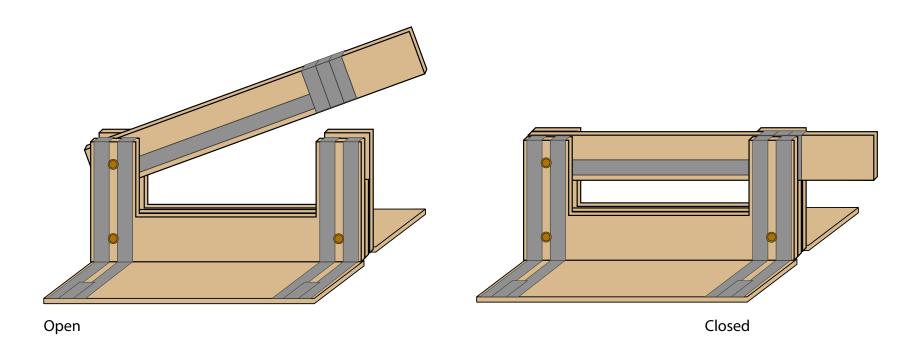
Giant Cardboard Knife Switch



Knife switches are a fun way to visualize how a circuit becomes completed when a switch is engaged.

It's easy to see how the switch is "opened" or "closed" which represent the two states of a single throw switch.

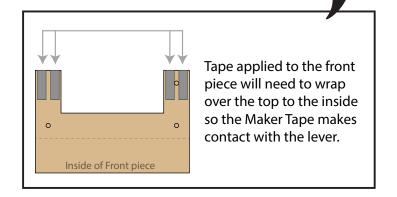
Knife switches are not used for most modern day circuits as they have been replaced by switches that are safer at high voltages, but since we'll be working with low voltage circuits this DIY cardboard knife switch is perfect!

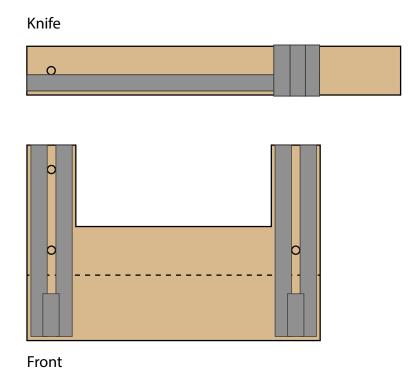
Giant Cardboard Knife Switch

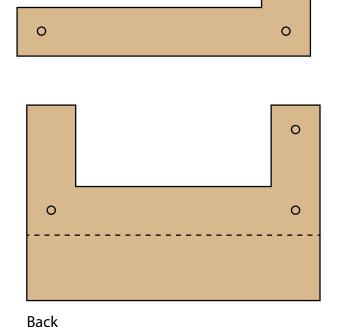
Note!

Assembly Instructions - Part I

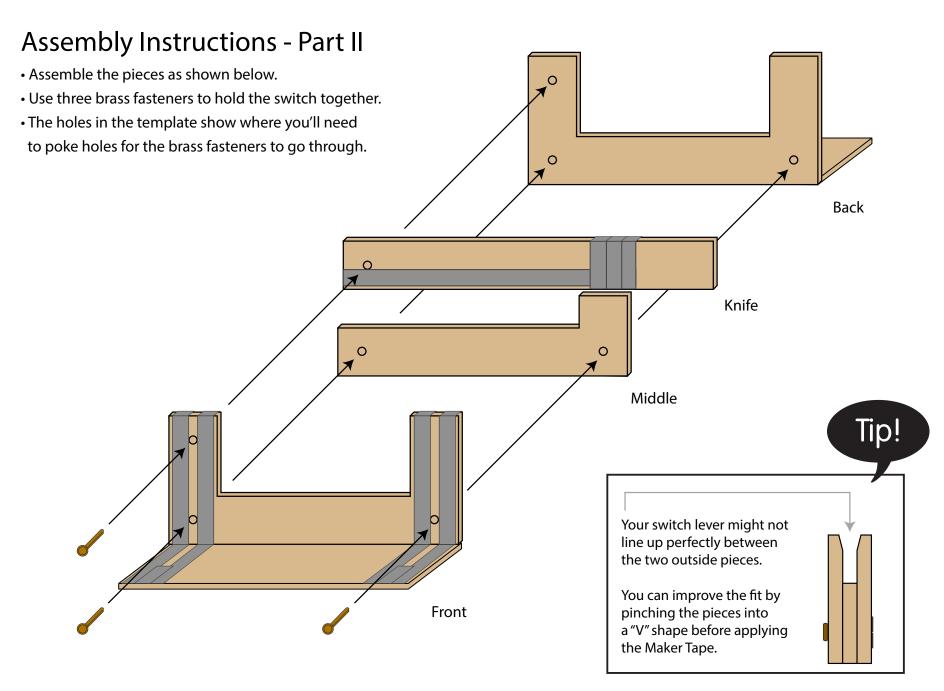
- Use the template found in this document as a guide to cut out the four pieces of cardboard that are needed.
- Arrange your switch pieces as shown below.
- Add Maker Tape to the front and knife pieces.



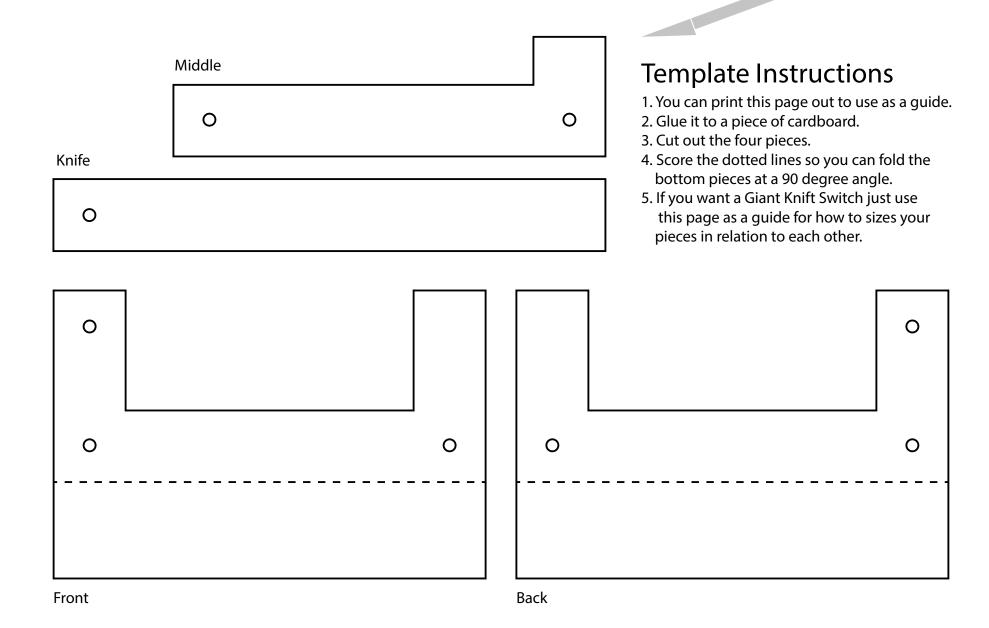


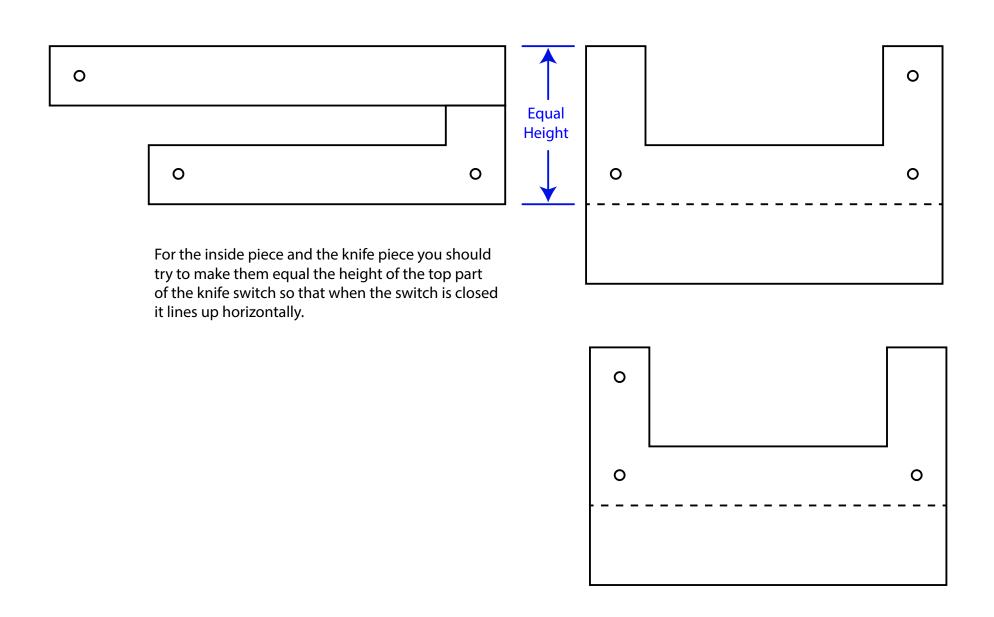


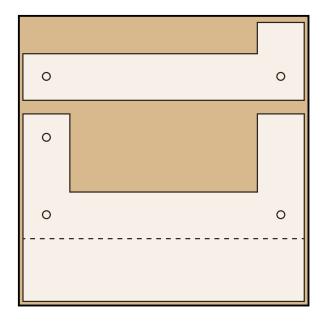
Middle

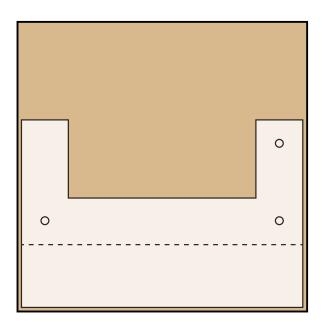


Giant Cardboard Knife Switch

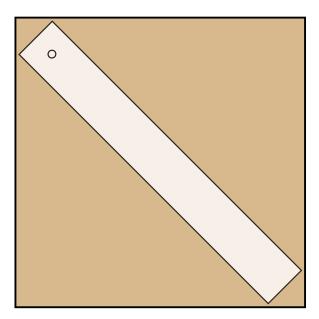


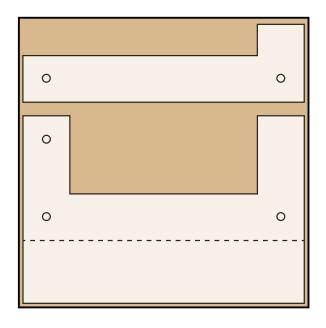


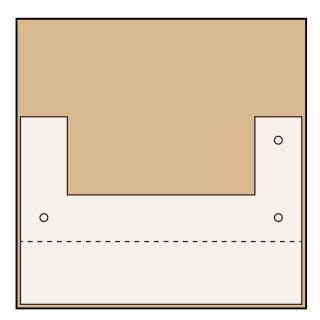




If you are using three pieces of equally sized cardboard and want to maximized the size you may need to rotate the longer knife piece to a 45 degree angle.

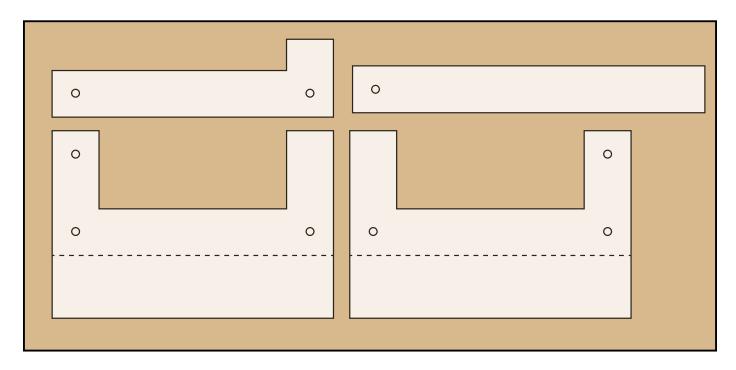






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If you've got a longer piece of cardboard you can use for the knife piece that can work well too. (Try to make sure all of the pieces of cardboars are the same thickness though!)



Once giant piece of cardboard can also work! It's just rare that we find a single piece of cardboard that is large enough for the Giant Knife Switch, so multiple pieces are totally fine in this case.