

LED box instructions

By Desmond Read

3D print files: https://github.com/fox268/LED_Box_f

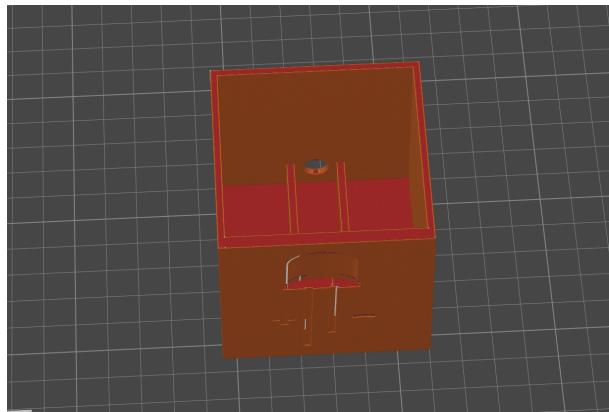
Things needed

- 3D printer parts
- Correct wiring
- A plug
- Two 220-ohm resistors
- Hot glue
- One LED
- The plastic bit that holds wiring

Step one: 3D printing

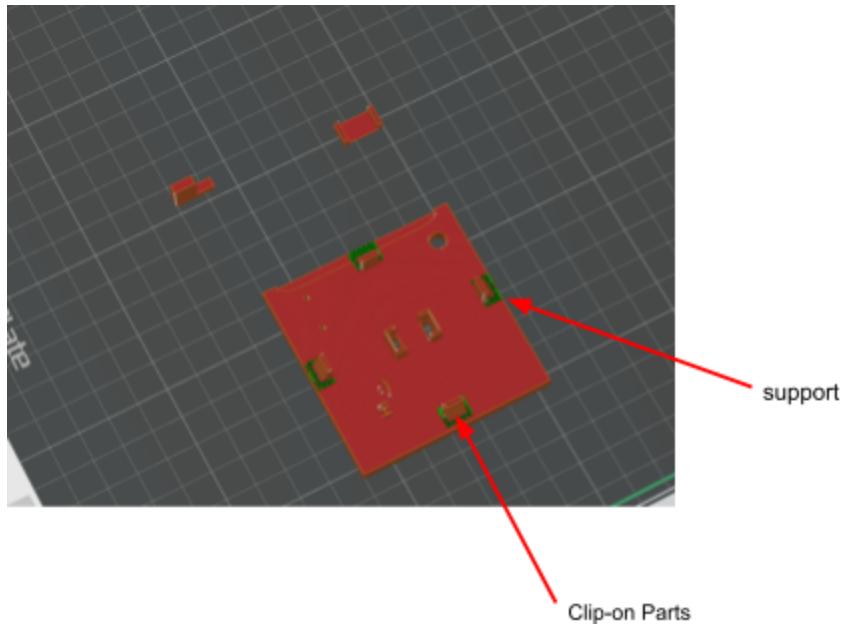
3D prints the files from my GitHub. The ones you want to print are labeled with “print_this”. They will have all of the things you need to be printed, and they will have the correct settings for the printer.

- There are other files for the components individually, so you can do whatever you want with them. The ones that are labeled “print_this” these two files will have all of the things you need in those files.



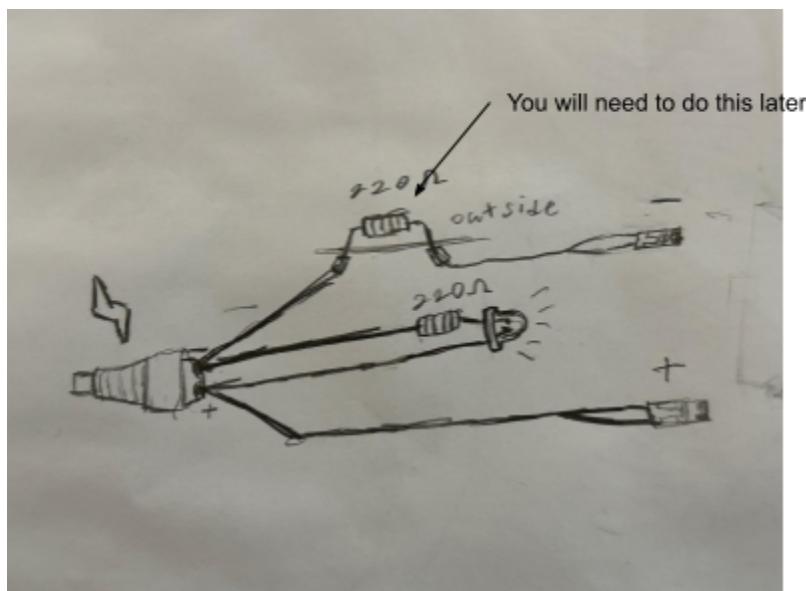
Note for the top of the box, it uses support. These supports need to be removed carefully because they'll break the little Clip-on Parts under the plate. I recommend doing the outer supports with pliers and then try pulling on the plastic with your hands that are under the clip-on parts. The reason why you do not want to use anything under the Clip-on Parts is that it can possibly break them off.

Just try your best and go carefully. Not all of it has to be cleaned up as long as it clips in.



Step two: make wiring

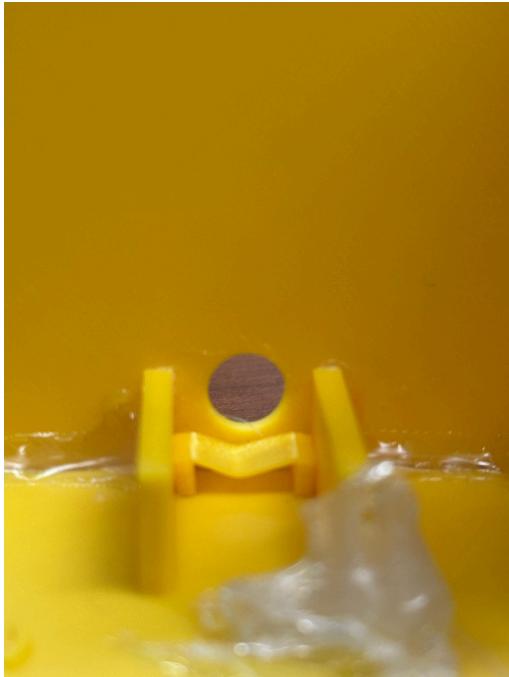
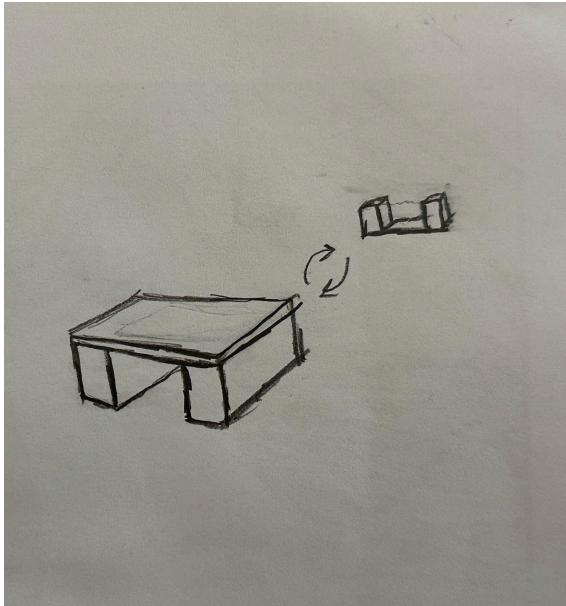
- You were gonna want to make sure to have wiring and two 220 ohm resistors. Down below will be a diagram of how the wire is connected up.



NOTE!! Any exposed contacts like the resistors or the LED legs, please put a shrink tube on them to make sure that they don't short themselves out. The only exception to this is the Resistor that goes outside of the box, which you would need to put electrical tape around!!

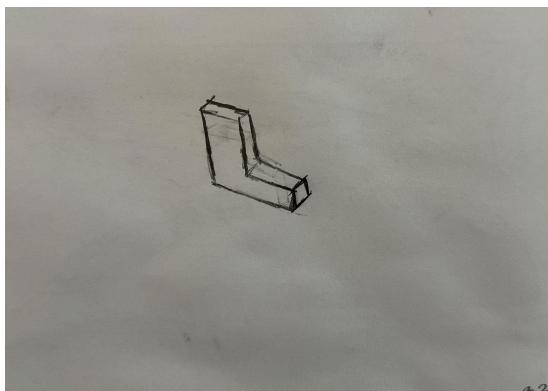
Step three: assembling the case

- For assembling the case, it is pretty simple. The only thing you need to do is with this little piece that looks like a bench (illustration down below) you will need to push it into the little wall. The casing and push down on the center of the bench, making sure that it gets a tight fit in between those two walls once that is done push it towards the wall. (A photo of this will be under the illustration.)

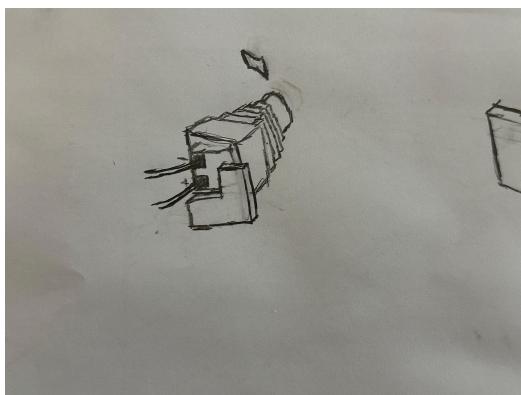


(Please note that the photos used are photos of the development shell; they do not use this much glue.)

Step four: power plug



This is an illustration of the part you want, A little power stopper



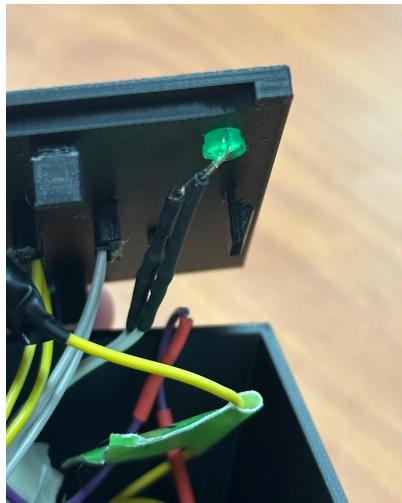
Make sure not to cover up any of the areas where the wire comes out



(This connector is facing the opposite side it does not matter what side it's on)

Make sure you have your wires connected to it before you do any of this, and make sure the little power stopper is right on that little clear plastic area, right next to where the wires come out from. After you have that in position, glue it down and make sure it sticks down to the bottom. For an extra precaution that works very well, tape down the top of the power supply, as you can see in the photo, this makes sure that it's totally in place.

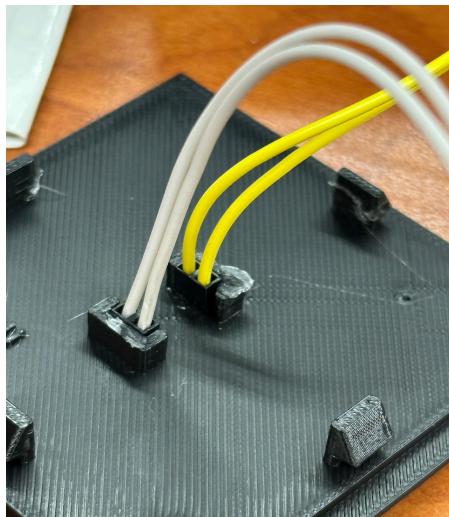
Step Five: Putting wiring in the Shell



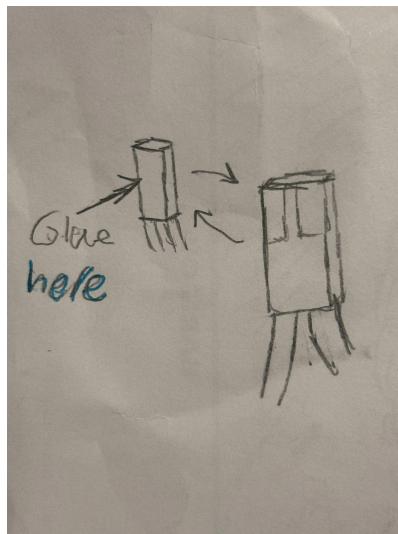
For the LED, just pushing it in might be a little difficult, but it will go in. Also, push the connectors of the LED out of the way



That part that I told you do later you're going to put the resistor on the outside of the casing and then solder the wires to the resistor legs that are going through the top, and make sure that you put electrical tape around the legs so it does not break the whole box if the legs touch one another.



For the connector that goes outside of the shell, you will need to look at the illustration down below and put glue on the blank part of the connector. Once you do that, slide the connectors in while the glue is still hot and wait for the glue to cool down. Also, make sure the connectors are leveled on the outside of the top.



Step sixes: You are now all done!!

Congrats you were all done making the LED tester box!! It should look like the one in the photo Down Below

