

Cat in a Box



Quantity	Description
1	Push button
1	CR2032 battery holder
1	CR2032 battery (not included)
2	0805 SMD LEDs (different colours included)
1	0805 SMD Resistor 47 Ω
1	Board (PCB)

Difficulty: ●●○○○ Build-Time: 30 – 60 Minutes

Manual v1.0 CC BY-SA 4.0 Binary Kitchen e.V.
Board v1.0 CC BY-SA 4.0 Timo Schindler

Step 1

- a) Check your parts.
- b) A CR2032 battery is not included. You can get them online or at bigger electronic stores.



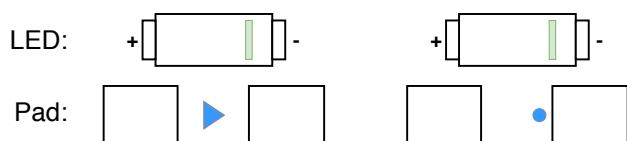
Step 2

- a) Choose a LED colour and add solder to one side of each of the LED pads of the eyes.



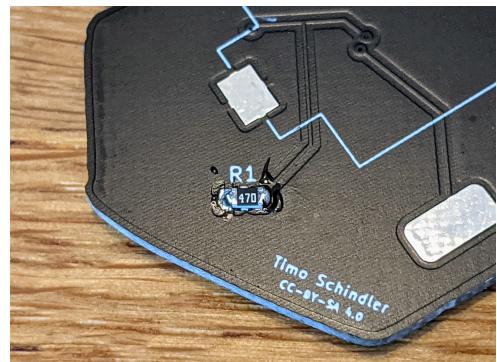
Step 3

- a) Careful! The alignment of the LEDs is important! First read all steps
- b) The LEDs have a small green line on the top
- c) On the PCB there are small arrows or small dots printed on
- d) The arrows or dots on the PCB show the side, where the small green line has to go
- e) Tip: When the cat is looking at you, the dots are on the left side.
- f) To solder the LED, heat the solder again and move the LED from the side onto the pad with solder
- g) Then solder the other side



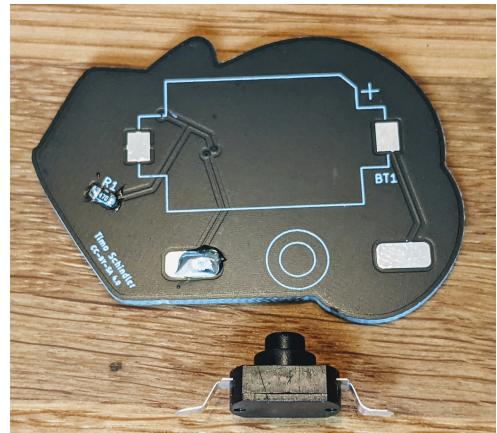
Step 4

- Turn the board over and solder the resistor the same way (the resistor has no direction)



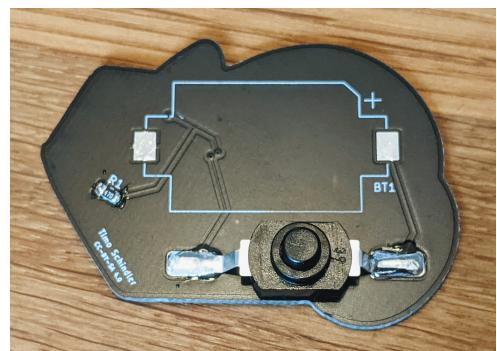
Step 5

- Add solder to one side of the switch
- Bend the legs so that they touch the PCB.



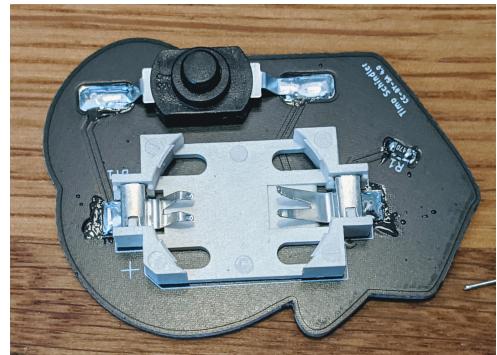
Step 6

- Solder the switch on in the same way as the resistor
- Then solder the second leg onto the board.



Step 7

- The battery holder has a direction, which is marked with a cut edge. The same edge is also printed on the PCB.
- Put solder on one pad of the battery holder
- Heat the pad with solder again and slide the battery holder from the side onto the pad.
- Make sure, that the other leg of the battery holder touches the other pad.
- Solder the other leg onto the other pad on the PCB.



Step 8

- a) Insert the battery as shown
- b) the taps on the positive side must touch the top of the battery.
- c) Slide the battery into the battery holder from the left and press down on the left side only.



Step 9

- a) You are done!
- b) You can still attach a magnet to the battery, to better attach the soldering kit to your clothes.

