Mushroom Rocket



Quantity	Description
4	RGB LED 5 mm
1	Push button
1	CR2032 battery holder
1	CR2032 battery (not included)
1	Board (PCB)

Difficulty: ●●○○○ Build-Time: 20 – 40 Minutes

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

Safety Information

- ATTENTION: Not suitable for children under 3 years, choking hazard due to small parts that may be swallowed.
- We recommend: Supervision of the assembly and soldering process by an adult.
- Keep these operating instructions in a safe place for later use! It contains important information.
- If the battery is empty, replace it only with a new battery with the same values.
- When soldering, the soldering iron, the solder and also the components being soldered become very hot.
- Always wear safety glasses when soldering and assembling the kit.
- Always use a fire proof soldering pad when soldering! This prevents the components from slipping away.
- To keep the soldering iron safe during assembly, always use a suitable soldering stand.
- The kit is designed for battery operation only.
- CAUTION: Never connect the kit to 230 V mains voltage! There is an absolute danger to life!
- Please take the device to appropriately certified disposal companies at the end of its service life. This is good for the environment and ensures correct disposal.
- Subject to changes and errors.

Disposal

This appliance is labelled in accordance with the European Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). The directive provides the legal framework for the take-back and recycling of waste equipment throughout the EU.

- **packaging**: The packaging is made of environmentally friendly materials and is therefore recyclable. Dispose of packaging materials that are no longer needed accordingly.
- **waste equipment**: Old appliances often still contain valuable materials. Therefore, hand in your old appliance to your retailer or a recycling centre for reuse. Please ask your retailer or your local authority for the current disposal routes.

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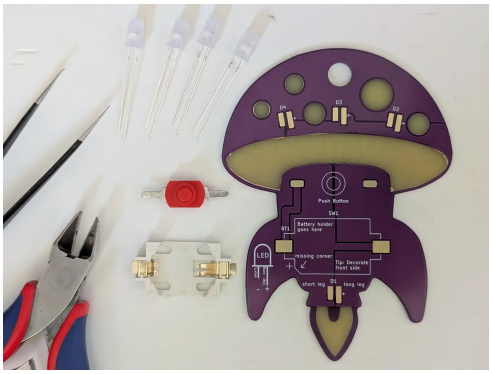
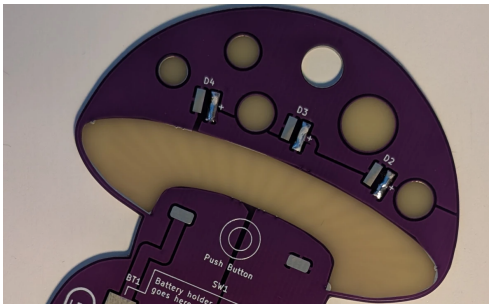
Step 1

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



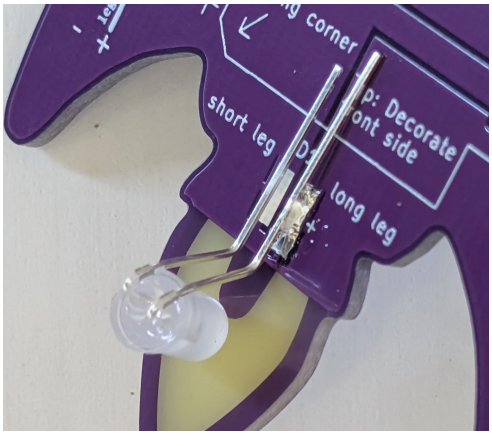
Step 2

a) Turn the PCB to the back-side.
b) Add solder to the long LED pad marked with a +.



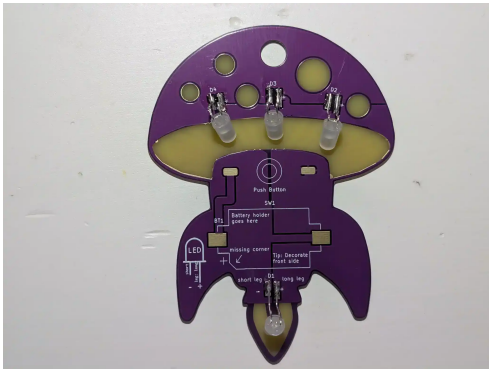
Step 3

a) The long leg of the LED marks the positive side.
b) Bend the legs, so that the LED points onto the board and the legs are laying flat on the board.
c) Solder the positive leg (long) to the positive pad where you've added the solder before.
d) Ensure that the second leg also touches the other pad without solder.



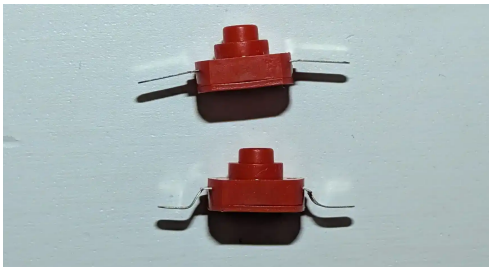
Step 4

a) Solder the other leg of the LED (cathode, negative side) to the board.
b) Cut away the excess length of the legs.
c) Repeat these steps for the remaining three LEDs.



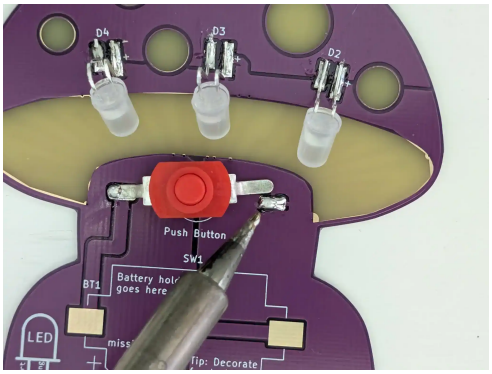
Step 5

a) The button works in both directions.
b) Add solder to one pad of the button.
c) Bend the legs of the button, so it can touch the surface of the board.
d) Heat up the pad with the solder again and push the button from the side onto the pad.
e) Make sure the other leg of the button touches the other pad.



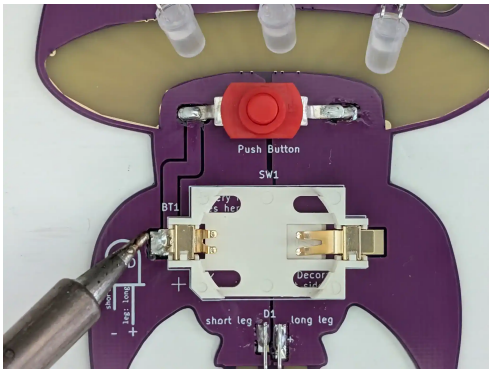
Step 6

a) Solder the other leg of the button onto the board.



Step 7

a) The battery holder has one side marked with a cut edge. You can find the same missing edge also on the board.
b) Add solder to one of the pads meant for the battery holder.
c) Heat up the pad with the solder again and push the battery holder from the side onto the pad.
d) Make sure the other leg of the battery holder touches the other pad.
e) Solder the other leg onto the other pad on the board.



Step 8

a) Insert the battery as shown in the picture.
b) The receivers of the positive side need to touch the top of the battery. Slide it in from the left side and push down only the receivers on the left side.
c) You are finished! Press the button to toggle the LEDs on and off.

