

Rainbow Unicorn



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

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

Manual v2.0 CC BY-SA 4.0 Binary Kitchen e.V.
Board v1.0 CC BY-SA 4.0 Binary Kitchen

Safety Information

- **WARNING:** Not suitable for children under 14 years of age.
- Choking hazard due to small parts that can be swallowed.
- We recommend: Supervision of the assembly and soldering process by an adult.
- Keep these assembly instructions in a safe place for future reference! They contain important information.
- If the battery runs out, replace it with a new battery with the same specifications.
- During soldering, the soldering iron, solder, and components being soldered become very hot.
- **ALWAYS** wear safety goggles when soldering and assembling the kit.
- Always use a fireproof surface when soldering! This prevents the components from slipping.
- Always use a suitable soldering iron holder to store the soldering iron safely during assembly.
- The kit is only intended for battery operation.
- Never allow small children to play with the kit alone! The kit uses small batteries. If these are swallowed, get stuck in the esophagus, and are not treated, this can trigger a harmful chemical reaction and have serious consequences within two hours. If this happens, seek medical attention immediately.
- **CAUTION:** Never connect the kit to mains voltage! This poses a serious risk to life!
- Please dispose of the device at a certified disposal facility at the end of its service life. This is good for the environment and ensures proper 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.

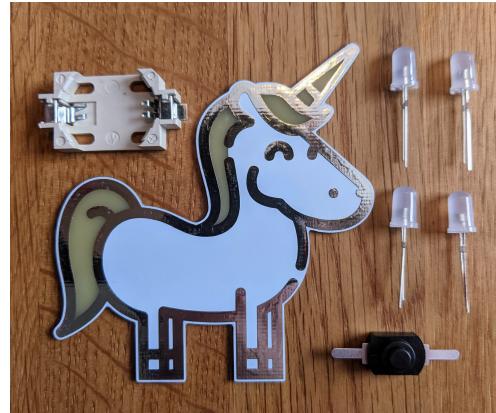
- **packaging:** The packaging is made of environmentally friendly materials and is therefore recyclable. Dispose of packaging materials that are no longer needed accordingly.
- **waste equipment:** Old appliances often still contain valuable materials. Therefore, hand in your old appliance to your retailer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

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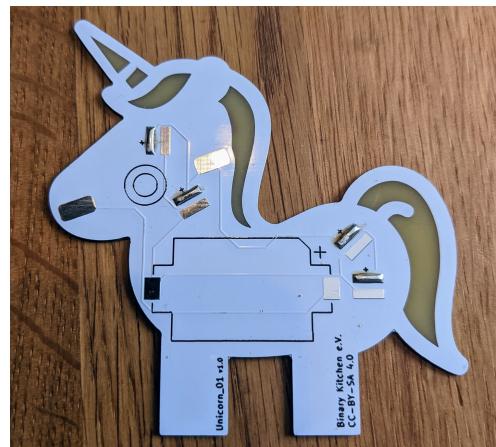
Step 1

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



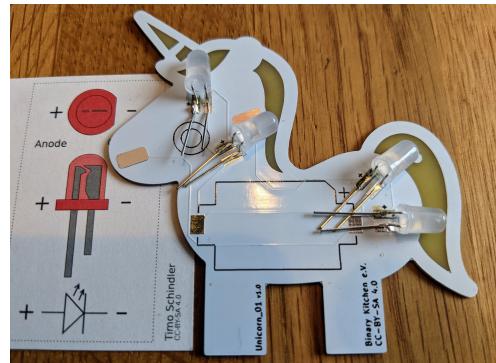
Step 2

- a) Turn the PCB to the back-side.
- b) Add solder to all four long LED-Pads marked with an +.



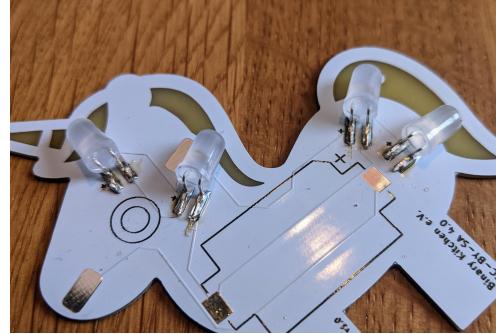
Step 3

- a) The long leg of the LED marks the positive side.
- b) Bend the legs, so that the LED lays flat on the board and the legs are also touching the board.
- c) Solder the posive leg (long) to the positive pad where you've added the solder already.
- 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 of the legs.



Step 5

- a) The button has no direction
- 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 a direction marked with a cut edge. You can find the same missing edge also on the board
- b) Add solder to one pad of the battery holder.
- c) Heat up the pad with the solder again and push the batteryholder 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) If you wish, you can add hot glue to the yellow part of the board on the back-side. This helps distribute the light of the LED better.



Step 9

- a) Insert the battery as shown of the picture.
- b) The receivers of the positive side need to touch the top of the battery. Slide it from the left in and push only the left side down.



Step 10

- a) You are finished!
- b) You can attach a magnet to the battery to better attach the solder kit to your clothing.

