

# Robo Robin



Quantity	Description
2	RGB LEDs 5 mm
1	Push button
1	CR2032 battery holder
1	CR2032 battery (not included)
1	Robot 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 Timo Schindler @ blinkyparts.com

## 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.
- Never allow small children to play with the kit alone! The kit uses CR2032 batteries. If these are swallowed, get stuck in the oesophagus and are not treated, this can trigger a harmful chemical reaction and have serious consequences within two hours.
- 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.

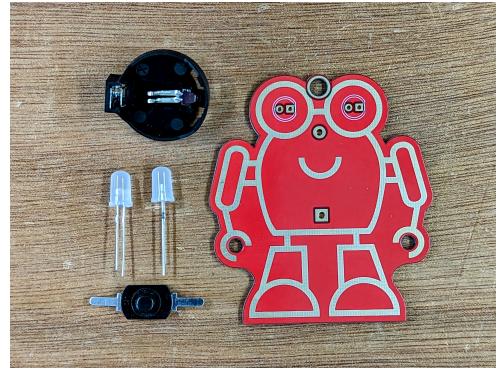
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### Step 1

- a) Check your components.
- b) A CR2032 battery is not included. You can purchase it online or at larger electronics stores.



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### Step 2

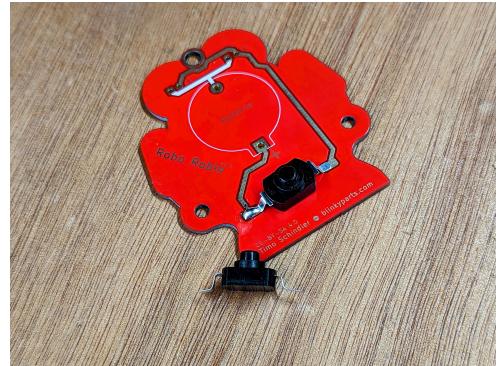
- a) Turn the board to the back side
- b) Apply solder to the left rectangular solder pad of the switch ('Schalter').



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### Step 3

- a) Bend the silver wire ends of the switch so that the wire ends touch the solder pads when placed on the board (see the picture. We have photographed a pre-bent switch there).
- b) Now heat the solder of the left solder pad again and slide the switch from the side onto the solder pad.



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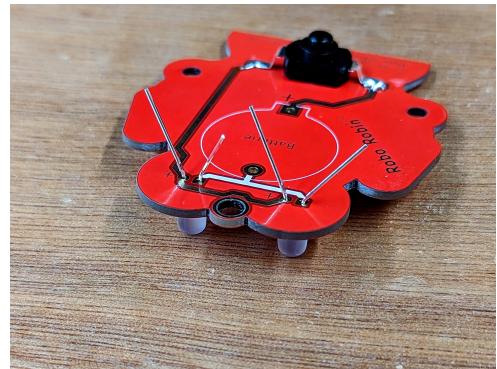
### Step 4

- a) Solder the second side of the switch onto the solder pad.



## Step 5

- a) The long leg of the LED marks the positive side.
- b) Insert the LED through the holes near the eyes. The long leg must go into the hole marked with a plus sign (+).
- c) Slightly bend the legs to the side so that the LEDs cannot fall out anymore.



## Step 6

- a) Solder all four legs securely. Make sure that the LEDs lie directly on the front side of the board.



## Step 7

- a) Attention! For this step, make sure that your safety glasses fit well. The wires tend to jump around.
- b) Cut the protruding wires close to the board.



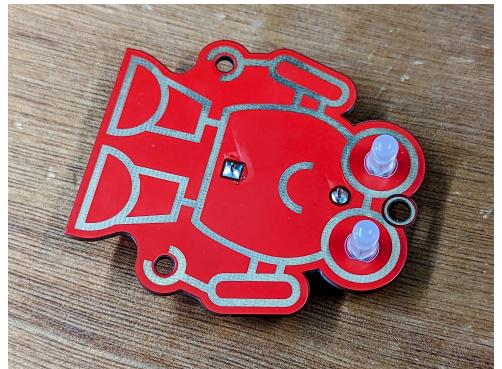
## Step 8

- a) Insert the black battery holder from the back through the board. The rectangular nose must face the plus symbol (+).



### Step 9

- a) Turn the board to the front and solder both solder pins at the holes.



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### Step 10

- a) You're done soldering!
- b) Now, place the battery in the battery holder so that the battery is inserted with the round side (minus side).



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### Step 11

- a) Press the battery on the positive side (at the plus +) into the battery holder.
- b) You're done! Great!
- c) Just press the switch, and your Robo Robin will light up.

