

# Rainbow Butterfly



| Quantity | Description                   |
|----------|-------------------------------|
| 4        | RGB LEDs 5 mm                 |
| 1        | Push button                   |
| 1        | CR2032 battery holder         |
| 1        | Cable, stiff                  |
| 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 Timo Schindler

# 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.

blinkyparts.com  
Egerstr. 9  
93057 Regensburg  
GERMANY



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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. It's possible you have one long cable instead of two shorter ones. You can cut them in half later.



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### Step 2

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



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### 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.



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### 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 an 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) Remove the plastic insulation from the wires and straighten them
- b) insert the wires into the holes at the head of the butterfly and bend the wires upwards
- c) solder the two wires in place
- d) optional: cut a short piece of wire beforehand to form a small ring. Put the ring through the holes at the wing tips and solder the rings. Here you can hang necklace links.



### Step 9

- 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.



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### Step 10

- 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.



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### Step 11

- a) You are finished!
- b) Alternatively, you can thread a necklace through the loops and wear it as a brooch.

