

# Weevil Eye Soldering Kit



Quantity	Name	Description	Labelling/Colour code
2	D1-D2	LEDs Red 5 mm	
1	R1	Resistor 47 kΩ	YE VI BK RE BR
2	R3-R4	Resistor 220 Ω	RE RE BK BK BR
1	R2	Photoresistor	
1	Q1	Transistor	
1	BT1	CR2032 battery holder	
1	CR2032 battery (not included)		
1	WeevilEye (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 3.0 Jordan McConnel

Farblegende: SI = silber; GO = gold; BK = schwarz; BR = braun; RE = rot; OR = orange; YE = gelb; GR = grün; BL = blau;  
VI = violett; GR = grau; WH = weiß

## 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 components
- b) A CR2032 battery is not included. You can buy them online or at major electronics stores.



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### Step 2

- a) First solder in the resistors R1, R3 and R4.
- b) Resistors have no direction.
- c) R1 has the color code: YE VI BK RE BR and goes where it says 47k. R3 and R4 have the color code ( RE RE BK BK BR and go to the place marked 220R.



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### Step 3

- a) Solder in the photoresistor R2
- b) The photoresistor also has no direction.



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### Step 4

- a) Solder the transistor at Q1.
- b) Note that a transistor has a flat side. The flat side belongs in the same place as printed on the board.
- c) You have to offer the middle leg a little backwards to get all three legs into the holes.
- d) Make sure that there is no solder bridge.



## Step 5

- a) Solder in the two LEDs
- b) Attention: LEDs also have a direction. The longer leg of the LEDs marks the positive side.
- c) The positive side is marked with a round pad on the circuit board.
- d) Insert the long leg into the round hole and the short leg into the rectangular hole.



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## Step 6

- a) Now turn the beetle over
- b) Solder on the battery holder
- c) Note that this also has a direction. The shape of the battery holder is printed on the circuit board. Solder the battery holder in exactly the same way.



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## Step 7

- a) You're done!
- b) Insert a battery (the + must point upwards) and let the beetle light up by placing your finger on the photo resistor
- c) You can also attach a magnet to the battery, to better attach the soldering kit to your clothing.

