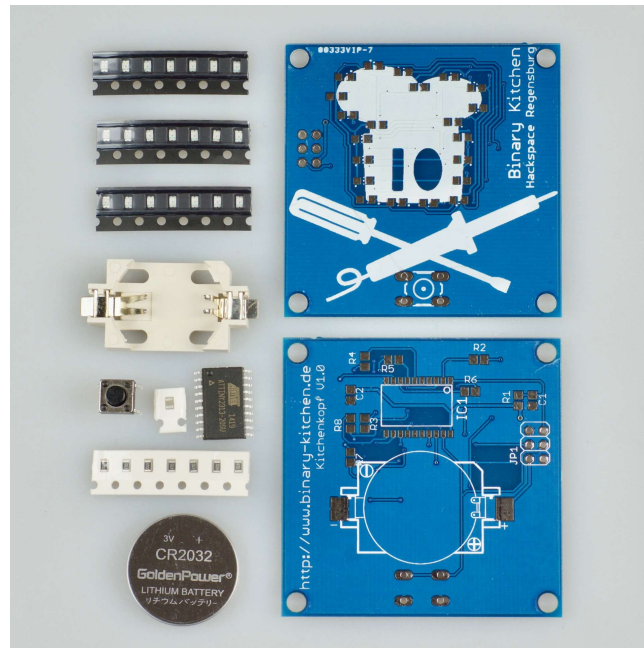


Kitchen Head (SMD)



Quantity	Name	Description	Signing/Colorcode
1	C2	Ceramic Capacitor 100 nF	
1	IC1	Micro controller Atmel ATtiny 2313A	
21	LED1-LED21	LED SMD 0805	
7	R2-R8	Resistor 47 Ω	470
1	SW1	Button	
1	BAT1	Battery holder	
1	Battery CR2032		
1	Board		

Difficulty: ●●●●○ Build-Time: 1-2 Hours

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

Board v1.1 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.

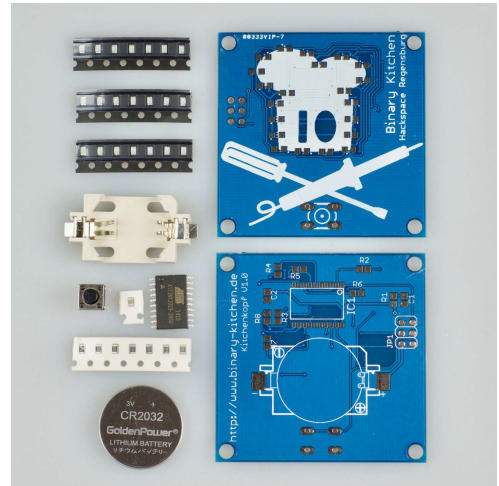
- **packaging:** The packaging is made of environmentally friendly materials and is therefore recyclable. Dispose of packaging materials that are no longer needed accordingly.
- **waste equipment:** Old appliances often still contain valuable materials. Therefore, hand in your old appliance to your retailer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

blinkyparts.com
Egerstr. 9
93057 Regensburg
GERMANY



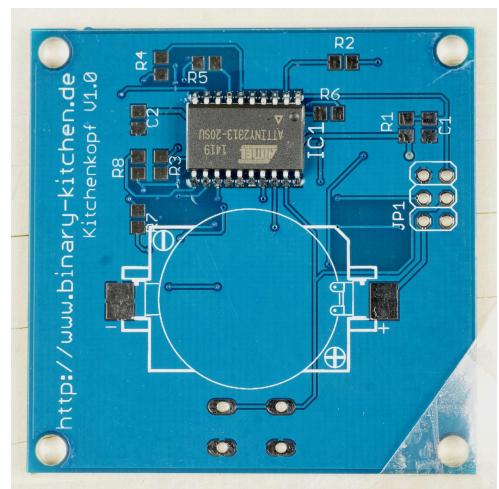
Step 1

- a) Tape the board onto the soldering mat



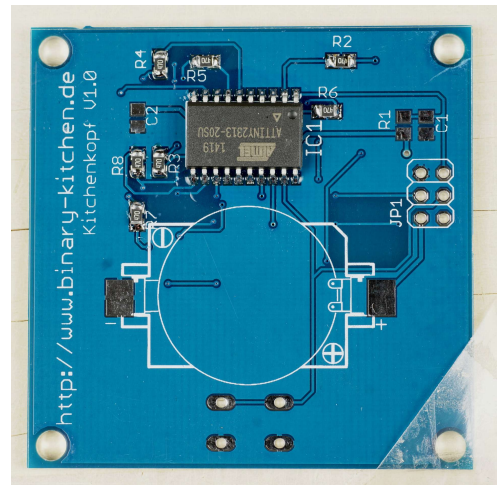
Step 2

- a) Take IC1 up with a piece of tape. The tape should cover only half of the chip
- b) Arrange and fix the IC to the correct position on the board
- c) Careful - Direction is important: The small dot on the IC has to match with the dot on the board
- d) Solder all pins of the IC to the Board
- e) Take away the tape and fix the pins on the other side



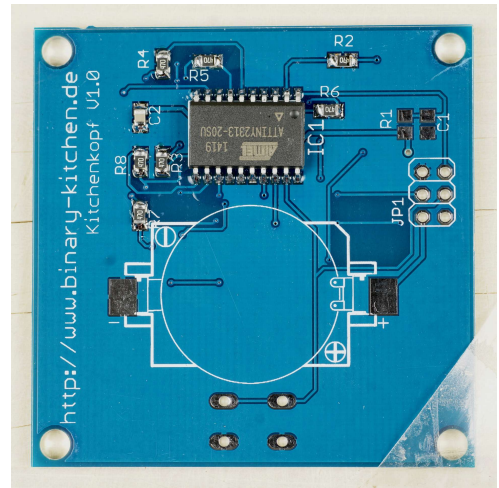
Step 3

- a) Solder the resistors R2 to R8 on the board
- b) To do so, put some solder on ONE pad
- c) Heat up the solder again and slip the resistor onto the pad with the solder
- d) Solder the other side after that



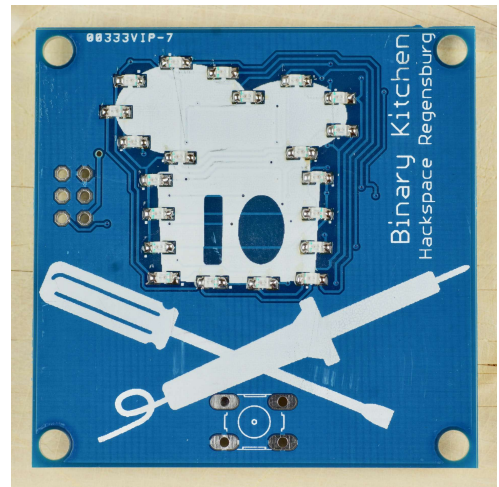
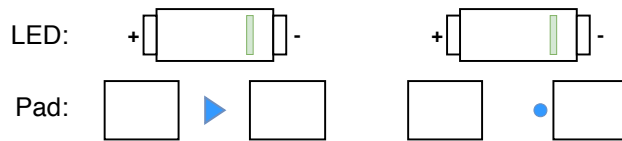
Step 4

- a) Solder capacitor C2 with the technique showed before



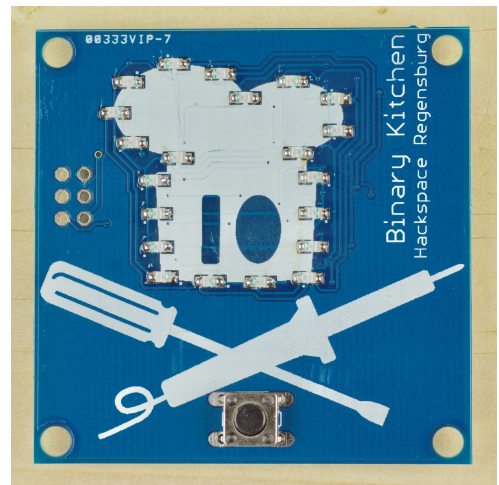
Step 5

- a) *Be careful!!* The direction of the LEDs is important
- b) Read everything first.
- c) Solder the LED with the technique showed before
- d) On the board are marking points or arrows printed on
- e) The LED has a green marking on top
- f) The dot/arrow shows the direction where the green marking has to be directed while soldering
- g) Hint: If you can not identify the error or dot on the board look at the drawing at the end of this manual



Step 6

- a) Solder switch S1 to the board



Step 7

- Solder the battery holder to the board
- For this, turn around the board
- Battery holder and board have a + printed on. They have to match
- Note: Start with the plus pole
- Now insert battery and push the switch
- Be careful: One metal arm of the battery holder has to reach on the top side (see picture)

