Ermer Beeper

Quantity	Name	Description	Signing/Colorcode				
2	C1,C2	100 nF capacitor	104				
1	R1	1 kΩ resistor	BR	BK	BK	BR	BR
2	R2,R3	5.6 kΩ resistor	GR	BL	BK	BR	BR
1	R4	56 Ω resistor	GR	BL	BK	GO	BR
2	Q1,Q2	BC547C NPN transistor					
1	LS1	8 Ω–100 Ω speaker					
2	J1,J2	4 mm binding posts					
1	BT1	2xAAA battery holder					
2		AA batteries (not included)					
7		wooden box parts (optional)					
1		PCB					

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

Manual   v2.0   (cc)(i)(o) CC BY-SA 4.0 Binary Kitchen e.V.

Board   v1.1   (cc)(i)(o) CC BY-SA 4.0 Timo Schindler

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.

blinkyparts.com
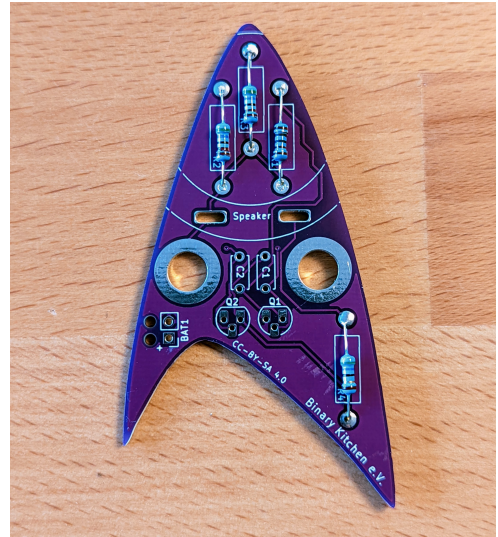Egerstr. 9
93057 Regensburg
GERMANY

Step 1

a) Tip: The resistor value can be determined by the printed colour coding

b) The orientation for resistors and capacitors is not important

c) Attention the orientation of transistors is important and printed on the board.
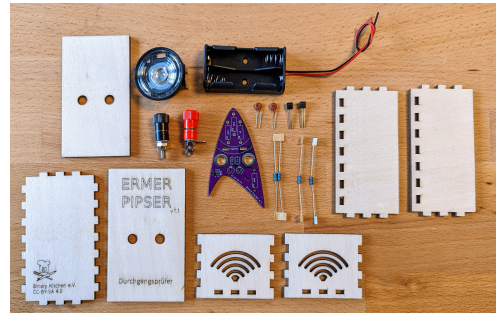
Step 2

a) Solder all resistors

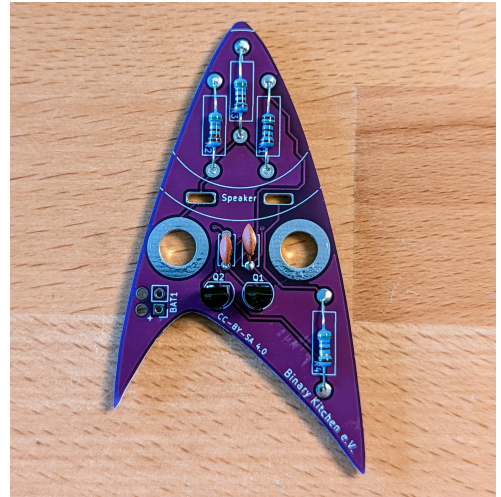b) Pay attention to the correct value, printed on the board.

Step 3

a) Solder on the capacitors C1,C2.

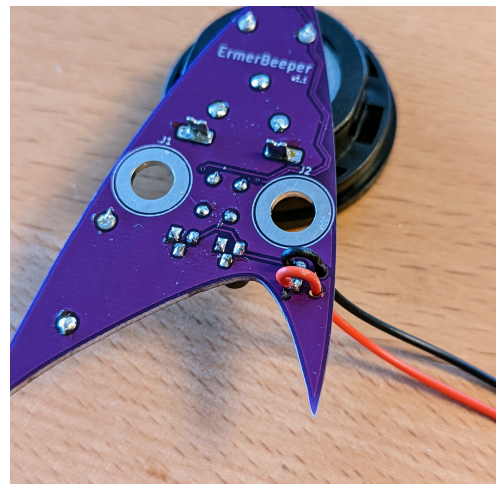## Step 4

a) Solder the two NPN transistors BC547C (Q1–Q2).

Step 5

a) Turn the board over.

b) Solder on the speaker.

Step 6

a) Thread the red and black wire of the battery holder through the holes next to the soldering points.

b) Now put the wires into the soldering points. Note: red is positive,black is negative.
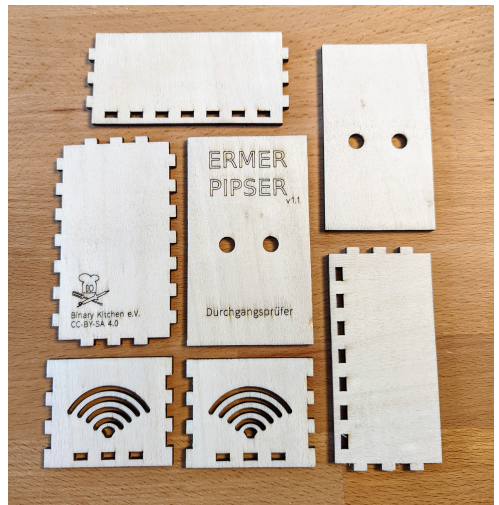
c) Solder the wires in place.

Step 7

a) Now screw on the banana sockets as shown in the picture.

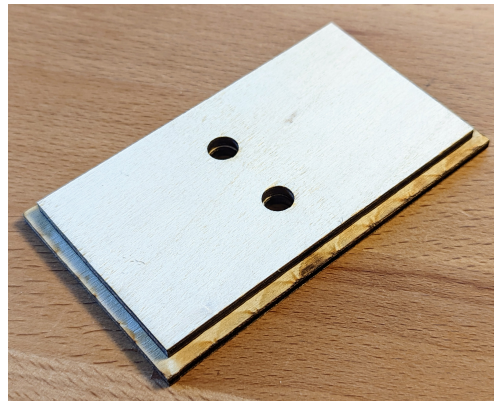b) Insert the batteries: Your Ermer beeper is ready!
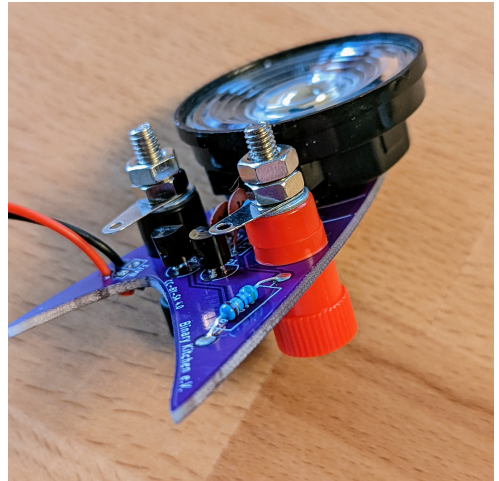
Step 8

a) (Optional) If you also have a wooden box, you can continue here: First sand all surfaces with a fine sandpaper.
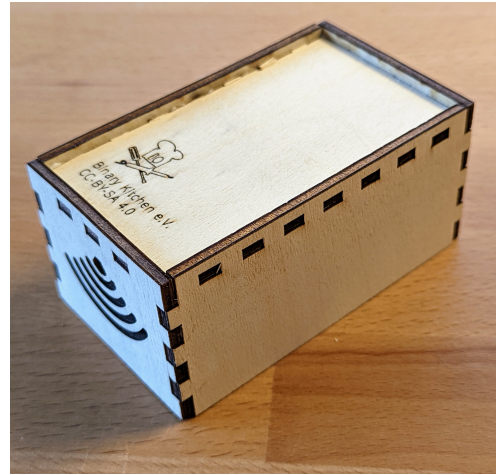
Step 9

a) Glue the two tops together, so that the holes match. The inscription Ermer Piepser should be visible, when you turn the glued pieces over.

Step 10

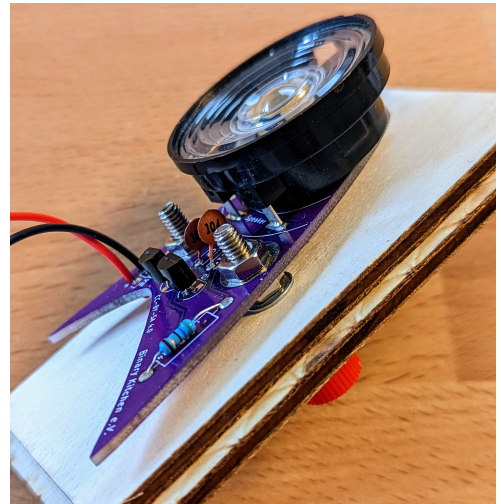a) Pin and glue the remaining pieces together as shown in the photo.

Step 11

a) Screw the banana sockets into the holes (red is on the left). Don't forget the washer.

Step 12

a) Remove the batteries! Now unscrew the Ermer beeper as shown. Attention: Also remove the solder tags, they cause accidental short circuits.

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Step 13

a) Finished! Your continuity tester now also has a great box!