Firmenanschrift aufbewahren -Kleinteile! Keep the address of the company - Not suitable for children u ntains small parts! Veuillez conserver l'adresse - Ne convient pas pour les enfants de mo de trois ans! - Contient de petites pièces pouvant être absorbées! Adres bewaren - Niet

SOL-EXPERT group, C.Repky - Mehlisstrasse 19 - D-88255 Baindt Tel.: +49 (0)7502 - 94115-0 - Fax: +49 (0)7502 - 94115-99 info@sol-expert-group.de - www.sol-expert-group.de





Qty.

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2

2

1

### Hier geht es zur Anleitung:



-expertgroup.de/Rund-ums-Loeten/Pfiffige-Loetbausaetze/Loetbausatz-Herz-mit-Blinkfunktion-und-Dauerleuchten::1263.html?language=de

Parts list Check and sort out parts

Resistor (R5/R6)

Resistor (R1/R4)

Capacitor (C1/(C2)

Transistor (T1/T2)

Soldering iron, solder, wire cutters, tweezers, power bank

The 'Blinking Heart' soldering kit is excellent to practice soldering on a

Resistor (R7)

Switch (SW1)

Pot (R2) USB connector

Front panel

The 'Blinking Heart' soldering kit

You will also need:

or USB port

Circuit board

LED 5 mm

Part

Click here for the instructions:



expert-group.de/Allabout-soldering/Smart-kits-forsoldering/Solder-kit-heart-with-flashingfunction-and-permanentlight::1263.html?language=en

Value/Description

76320

Colour red

3K9 Ohm

47 uF/10V

BC547B SS12D01

100K ohm

installed

1-pc.

56 Ohm 620 Ohm Cliquez ici pour les instructions:

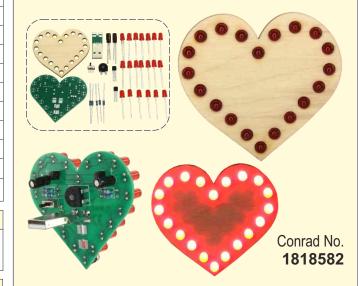


group.de/Autour-de-la-soudure/Kitsastucieux-pour-la-soudure/Coeur-de-kit-desoudure-avec-fonction-clignotante-etlumiere-permanente::1263.html?language=fr Klik hier voor de instructies:



group.de/Rond-solderen/Clever-kits-voor-hetsolderen/Soldeerkit-hart-met-knipperende-functieen-permanent-licht::1263.html?language=nl

# Heart with blinking or steady lights soldering kit, powered via power bank or USB port



Recommendation for children and teenagers: Assembly and soldering should be supervised by an adult.



circuit board. Over 30 parts are soldered onto the circuit board step by step according to the instructions. Once the kit is assembled the heart can be operated in steady or blinking mode.

In blinking mode you can then also adjust the blink speed via the potentiometer. So you can send messages, e.g. slow blinking: I love you - rapid blinking: I really love you!

Decorate the included plywood front any way you'd like and install if desired. Dimensions: 70 x 70 mm, over 30 parts. The 'Blinking Heart' electronics building kit is powered via power bank or via USB port. This eliminates costly batteries.

### **IMPORTANT SAFETY NOTES**

- Keep this manual for future reference! It contains important information.
- This kit is intended for USB power only. Never connect the kit to 230 V mains voltage! Acute danger to life!
- The soldering iron, solder and the parts being soldered become very hot. Be very careful!
- Always use a mat when soldering! This prevents parts and the circuit board from slipping.
- We recommend using a soldering iron holder to set the soldering iron down safely during use.

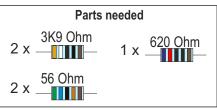
### **ENVIRONMENTAL NOTES**

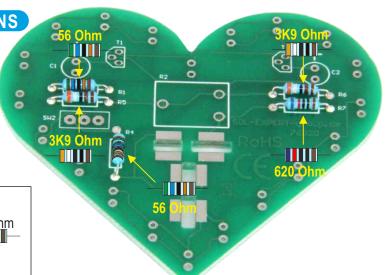
Generally: Please return the circuit board to a certified provider at the end of its useful life. These will then ensure it is disposed of in compliance with directives. This is good for the environment and an important part of actively protecting the environment.

# **ASSEMBLY INSTRUCTIONS**

A Circuit board direction for soldering: 'RoHS' must be visible, then the board is on the correct side.

Solder 5 resistors into place, paying attention to the resistances. The resistor polarity is not important!

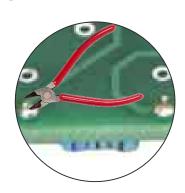






Bend the resistor wires so they slide easily between the lands!

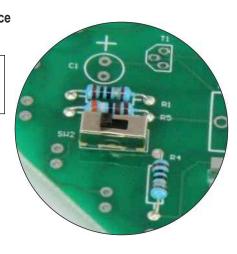
B Trim excess wires.



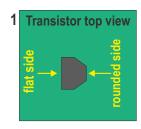
After soldering, use wire cutters to trim the excess wires at the back to approx. 2 mm.

Solder switch in place Trim excess wires.

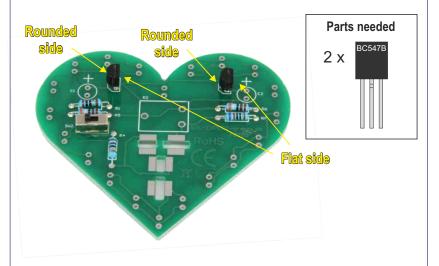




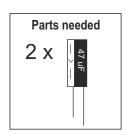
Solder 2 transistors in place. Pay attention to the direction (1)! Bend the middle leg of the transistor slightly to the back (2).

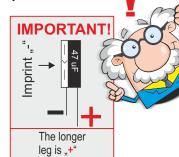


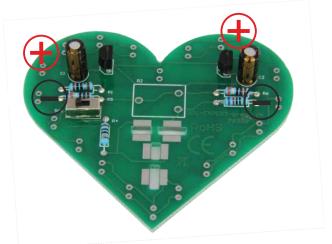
2 Transistor side view pend middle back side back side

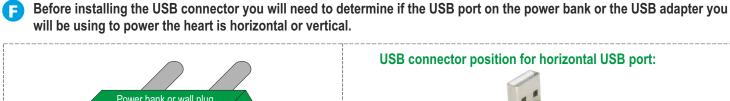


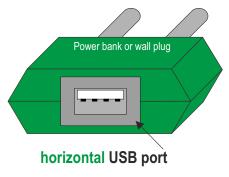
Solder 2 capacitors in place.
Pay attention to the polarity!



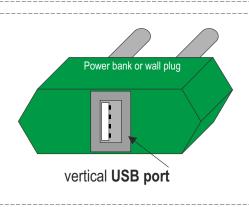






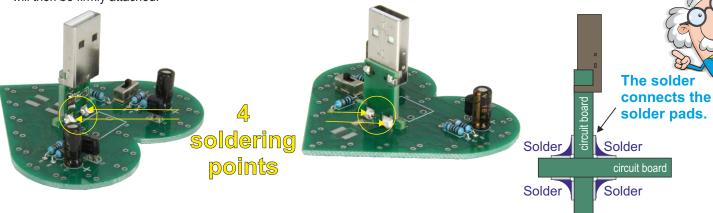


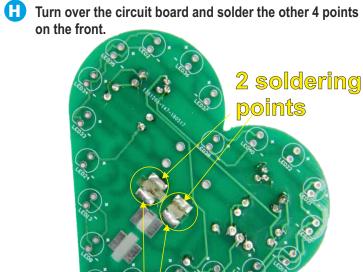


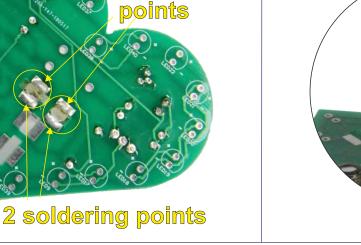




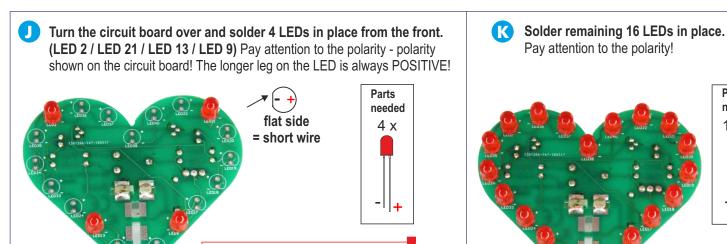












ATTENTION: the soldered on LEDs must be flat on the board. When soldering, make sure the legs do not short-circuit! A short-circuit is caused by e.g. accidentally soldering together

2 wires with solder.

### **VISUAL INSPECTION:**

Lean back in your chair and take a mental break. Once you feel relaxed, read through the assembly instructions again from the start, checking if you did everything as instructed. Pay particular attention to short-circuits and the resistances, etc. Take your time and once you have checked all items, plug the USB connector into a power bank or a USB port.

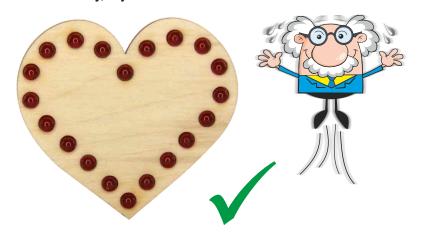
Some power banks have a power button which needs to be pushed for the circuit board to work.



Parts needed

16 x

Slide the front panel over the LEDs, using a little pressure. If necessary, adjust the LEDs!



Once plugged in, all LEDs should now flicker. Depending on the setting they will either be steady or blink. You can use a small screwdriver to adjust the speed on the potentiometer.

# **TROUBLESHOOTING:**

# No LEDs on:

- Check all soldering points
- Did you push the power button on the power bank to switch it on?
- Check the transistors for short-circuits
- Is the power bank charged?

# Specific LED does not light up:

- Check the soldering points for the LED

