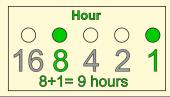
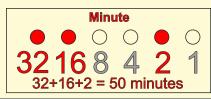
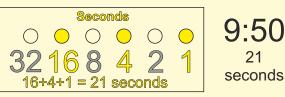


including a preprogrammed microprocessor. This enables showing the "binary" time through LEDs. One LED row is assigned to the hour/minute and one to the seconds. The actual time is set with buttons. The "binary clock" electronics building kit is powered via power bank or via USB port. This eliminates costly batteries. The included plywood front panel shows the binary values. These can then be converted to decimal values. Dimensions: 100 x 80 mm.

How to convert the binary value to a decimal number: simply add all of the values with lit LED. A practice example:





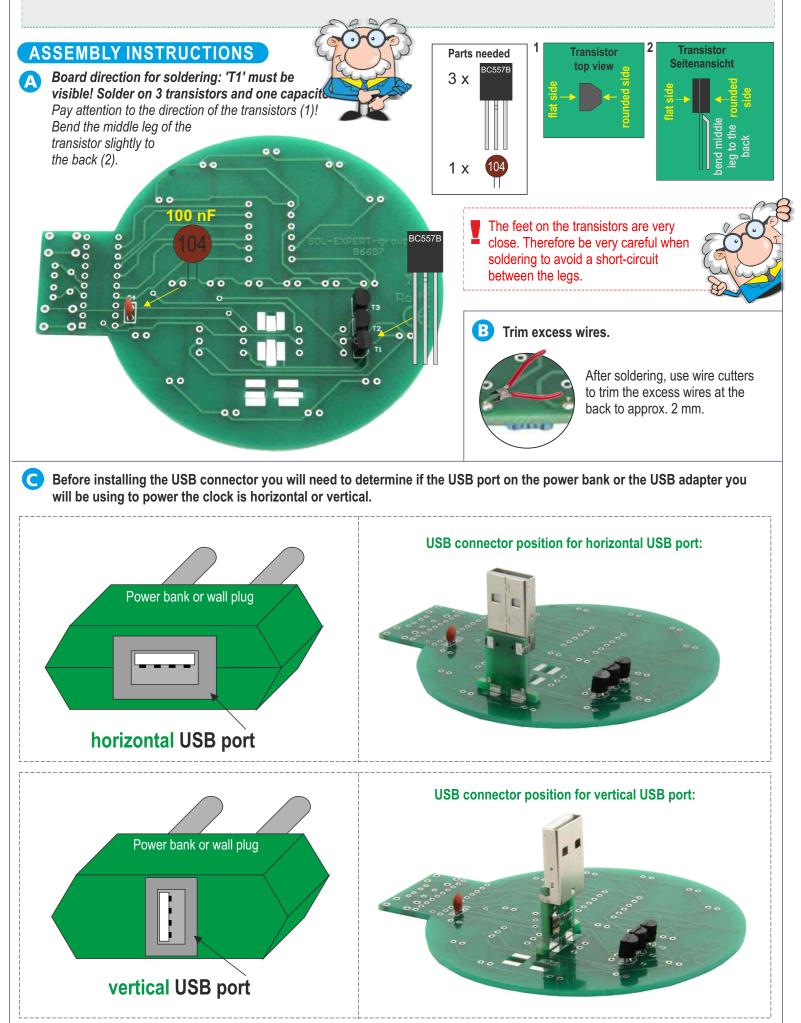


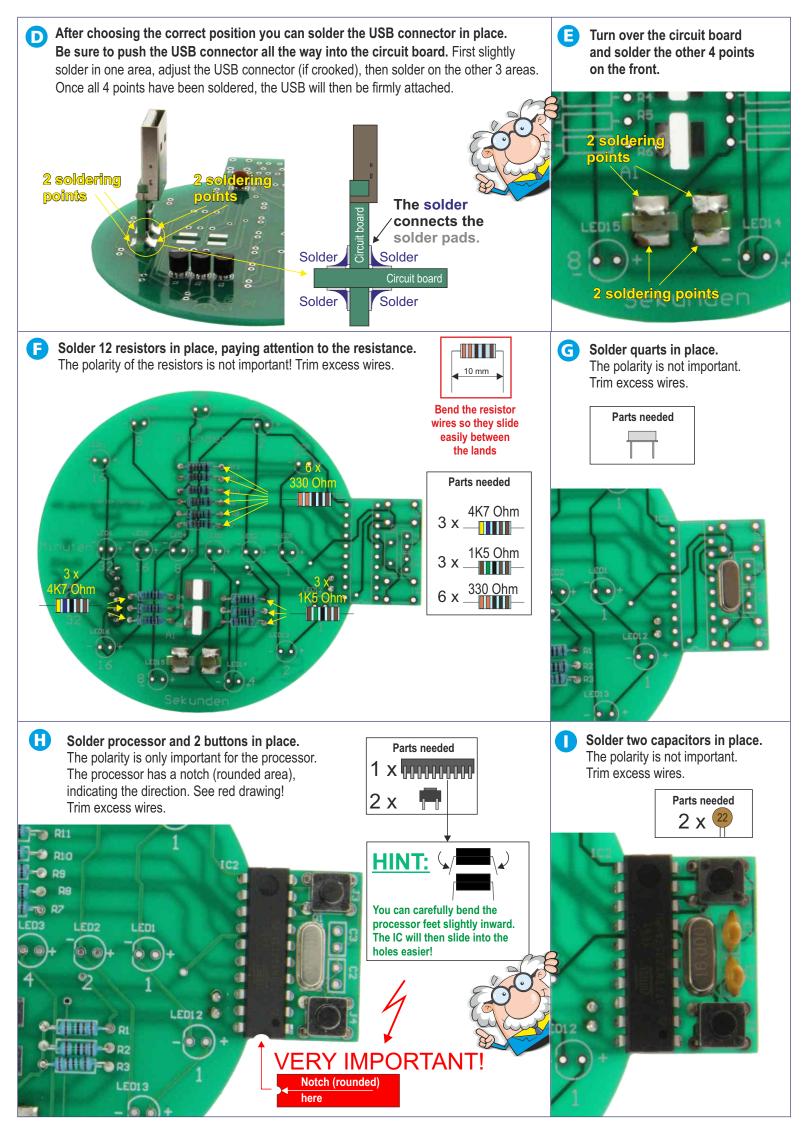
IMPORTANT SAFETY NOTES

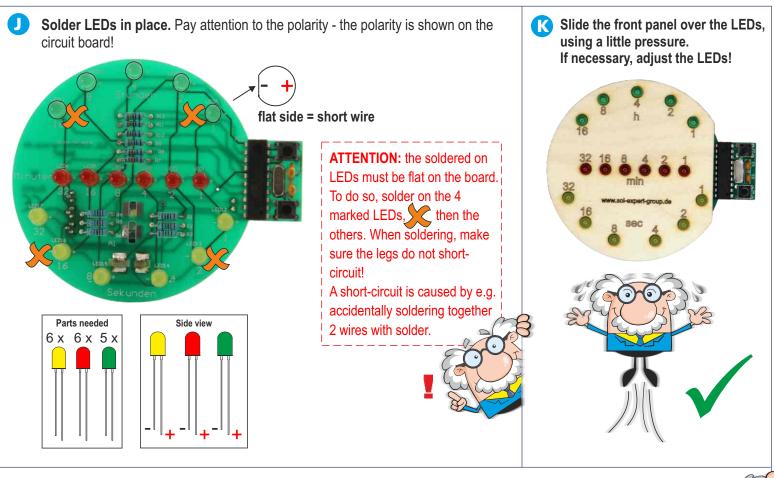
- Keep this manual for future reference! It contains important information.
- This kit is intended for USB power only. <u>Never connect the kit to 230 V mains voltage!</u> <u>Acute danger to life!</u>
- The soldering iron, solder and the parts being soldered become very hot. Be very careful!
- Always 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.







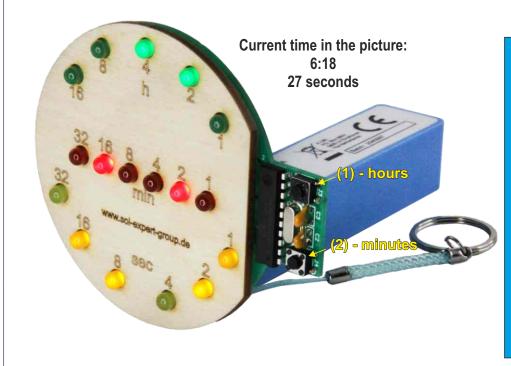
VISUAL INSPECTION:

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.**

Setting the current time

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The 2 buttons are used to set the current time. The top button (1) is for the hours. Use the bottom button (2) to set the minutes. Once the time is set and the buttons are not pushed again, the processor will automatically start counting the seconds. If you disconnect the circuit board from the power supply and plug it in again, you will need to set the time again.



TROUBLESHOOTING:

No LEDs on:

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

Specific LED does not light up:

Check the soldering points for the LED

- Is the LED installed the correct way?
- •