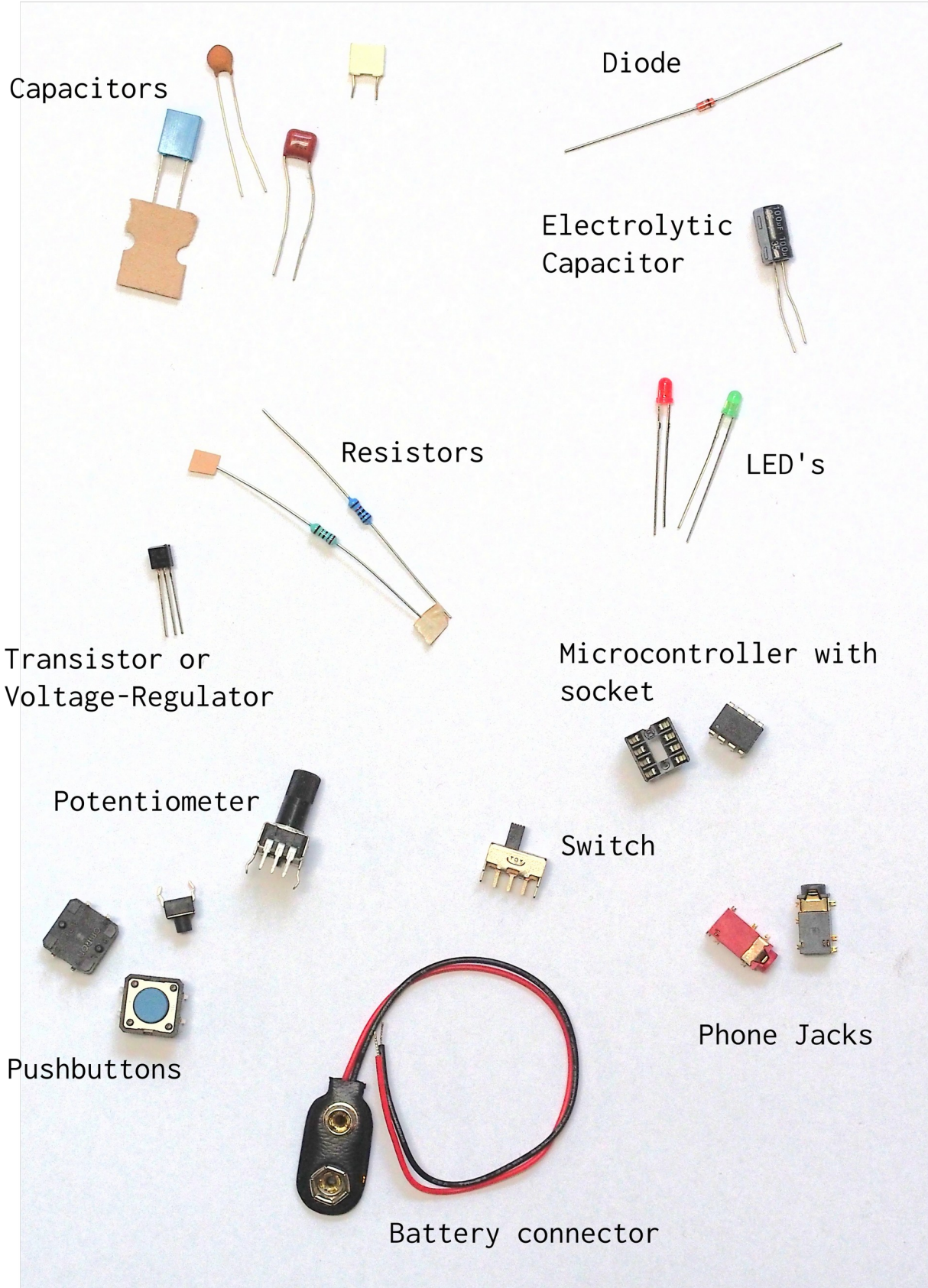


Soldering instructions for noisio kits

1. Know how to solder (if not - it's easy to learn - you'll find tons of instructions for beginners at youtube:)
2. Familiarize yourself with the components (look out for typically parts at page 2)
3. locate the designated place at the **iBOM** for your kit (noisio.de/boards) and/ or confirm by looking at the images
4. **Get component values** either by measuring or reading from the surface of the parts (resistors have colored rings - ask the web for a resistor color code calculator or table, capacitor values can be labeled in different ways for example 100nF as: 104, 0.1, 0.1uF)
5. Start soldering from the smallest/ flattest components to the bigger ones (diodes > resistors > sockets > transistors > LED's > buttons > capacitors > buttons > switches > potentiometers)
6. **IMPORTANT:** - Pay attention to the correct **orientation for polarized parts** - you will find markings on the board. **Diodes** are labeled with a line on one side. **LED's:** the shorter leg goes into the square solder tag, **electrolytic caps:** Minus to the white stripe, **transistors/V-regulators:** look at the print on the board, **IC sockets** have a semicircular cut on one side.
7. Extras: **Battery Connectors** needs to be soldered with the red cable directly to the + and the black one to the - (minus-)pad on the bottom side. Shorten the cables accordingly beforehand. The bigger **push-buttons** for the keys have two small nipples on the bottom side - cut them for a better alignment.
8. Tip: to achieve perfect alignment, solder components with more than 2 legs by soldering one leg first, realigning the part and then doing the rest

Parts typically used for noisio DIY-kits



Have fun!!!

If you have any more questions write me a line to contact@noisio.de