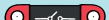
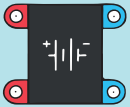
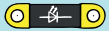
E20 CAPACITORS CONNECTED IN PARALLEL

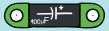

1x switch


1x button

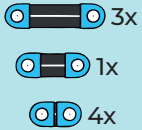
1x resistor 1kΩ


1x battery


1x LED

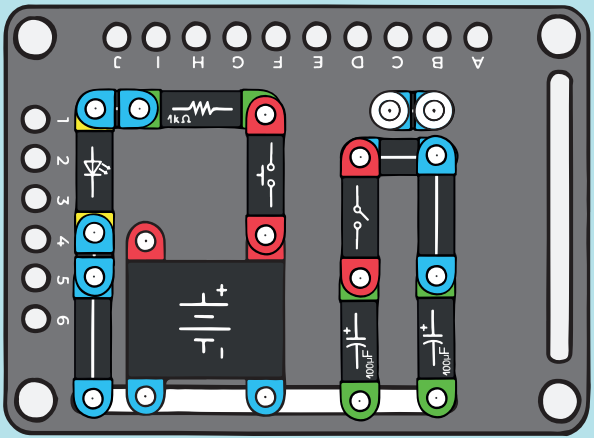


2x capacitor 100µF



The build allows to supply power to the LED diode from two parallel capacitors (with the switch closed) or from one capacitor (with the switch open). In the parallel arrangement of the capacitors, their total capacitance is added up; therefore, once the capacitor(s) have been fully charged, the LED will light longer when the switch is closed. When the switch is closed, the LED light duration will be roughly doubled (two identical capacitors in parallel have twice the resulting capacitance).

1.



2.