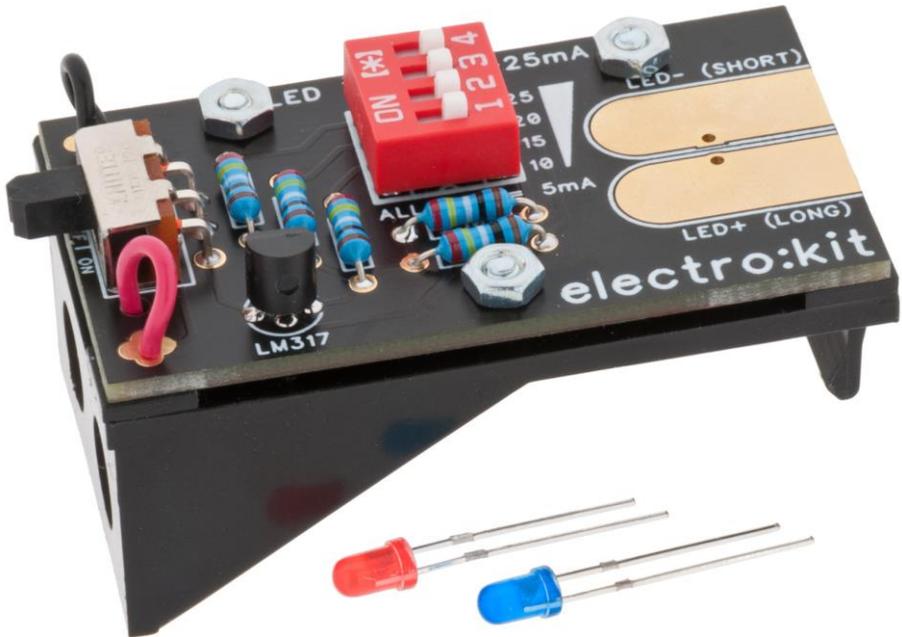


Electrokit LED Tester



Kit description

This circuit is a basic current regulated LED tester and is useful in any situation where you need to check the color of an LED or see how bright it shines at different currents. The circuit is based around the LM317 adjustable voltage regulator, wired as a constant current source, which is useful for driving LEDs. The DIP switch is used for setting different drive currents, from 5mA (all off) to 25mA (all on) in 5mA increments. To test an LED, switch the on/off to on, set the desired current with the DIP switch, and place the LED pins on the large pads. If the LED is reversed, it won't light up but nothing else happens. Just swap the pins and it should work. The tester works with all regular LEDs with a forward voltage from 1.2V to 3.6V.

There is no detailed assembly guide for this kit. Just follow the markings on the PCB and verify the components against the part list.

Contents

LED Tester PCB	1	
LM317 voltage regulator	1	
DIP switch 4-pos	1	
249 ohm resistor (red, yellow, white, black, brown)	5	
LEDs (colors may vary)	2	
Power switch	1	
9V battery holder	1	
M2 6mm screw + M2 nut	3	