

DIY Pressure Sensor / LED Circuit

materials:

- 2 pieces of velostat
- 1 piece of red wire
- 1 LED diode
- 2 AA batteries
- 1 battery case
- electrical tape

1

Make sure the battery case is switched OFF

5

Wrap the \ominus lead from the battery case around the \ominus pin of LED. Wrap over tightly with electrical tape.

For extra security, wrap over both pins as well

2

Wrap one side of the red wire around the \oplus pin of the LED. Then wrap over tightly with electrical tape.

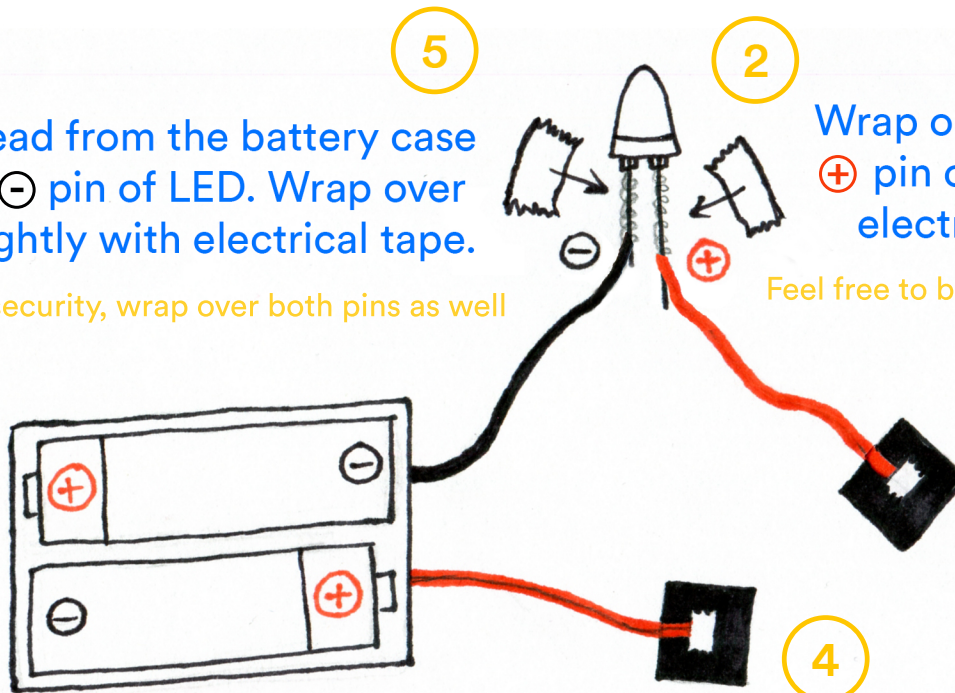
Feel free to bend the pins!

3

Tape the other side of the red wire to a piece of velostat.

4

Tape the \oplus lead from the battery case to another piece of velostat.



What happens when you squeeze the velostat pieces together?

Velostat acts as a *resistor*, controlling the flow of electric current through the circuit. The more pressure is applied, the less *resistance* there is, resulting in a brighter LED.