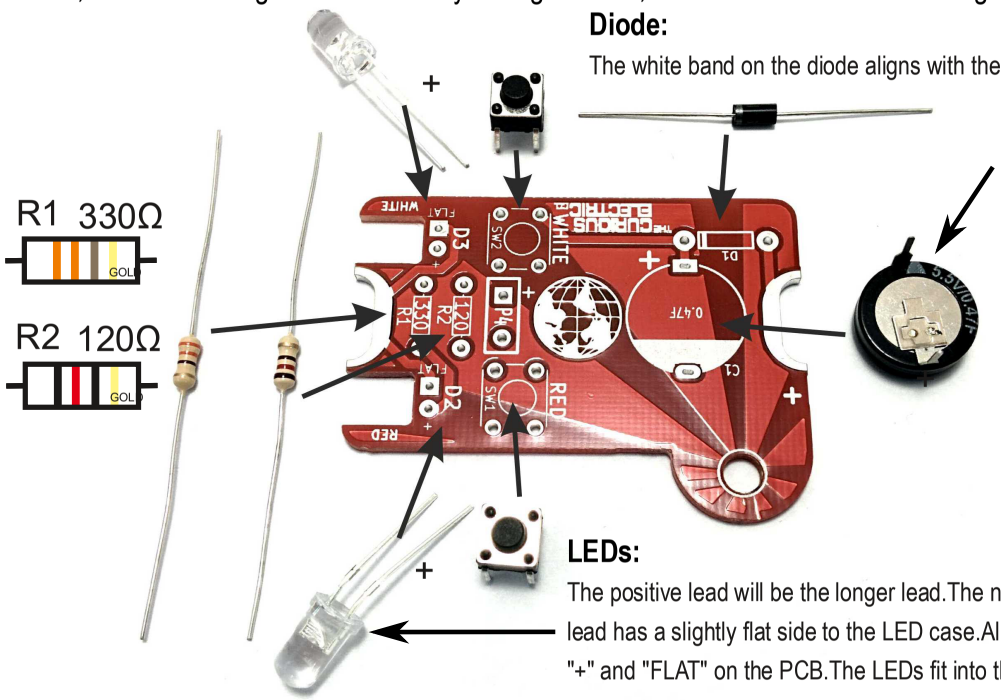
Solder Solar

This is a very simple soldering kit to build a solar powered torch. Use it for camping, exploring, investigating and illuminating.The unit has a small solar panel which recharges an ultra-capacitor. There are two LEDs, one white and one red, which are powered by the energy in the ultra-capacitor. This can be used when out and about, charged during the day and a handy light for night. The white light is useful to find your way around, while the red light will not affect your night vision, so can be used when reading maps at night.



Diode:

The white band on the diode aligns with the white band on the PCB silk-screen.

Capacitor:

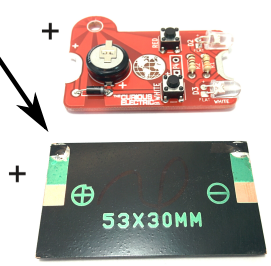
Ensure the correct polarity!

Small white triangles indicate the negative pin. This fits to the large white area of C1 on the PCB silk screen. Another way to find the pin polarity is that the positive (+) pin is on the bottom of the capacitor and the negative is on the top.

Solar Cell:

We need to align the + connection on the PV cell with the + on the PCB.

Use a large blob of solder to connect.



LEDs:

The positive lead will be the longer lead.The negative lead has a slightly flat side to the LED case.Align with "+" and "FLAT" on the PCB.The LEDs fit into the PCB cut-outs.

The Curious Electric Company

hello@curiouselectric.co.uk @curiouselectric

Full Instructions: https://github.com/curiouselectric/soldersolar/SolderSolar_Instructions/SolderSolar_Instructions.rst

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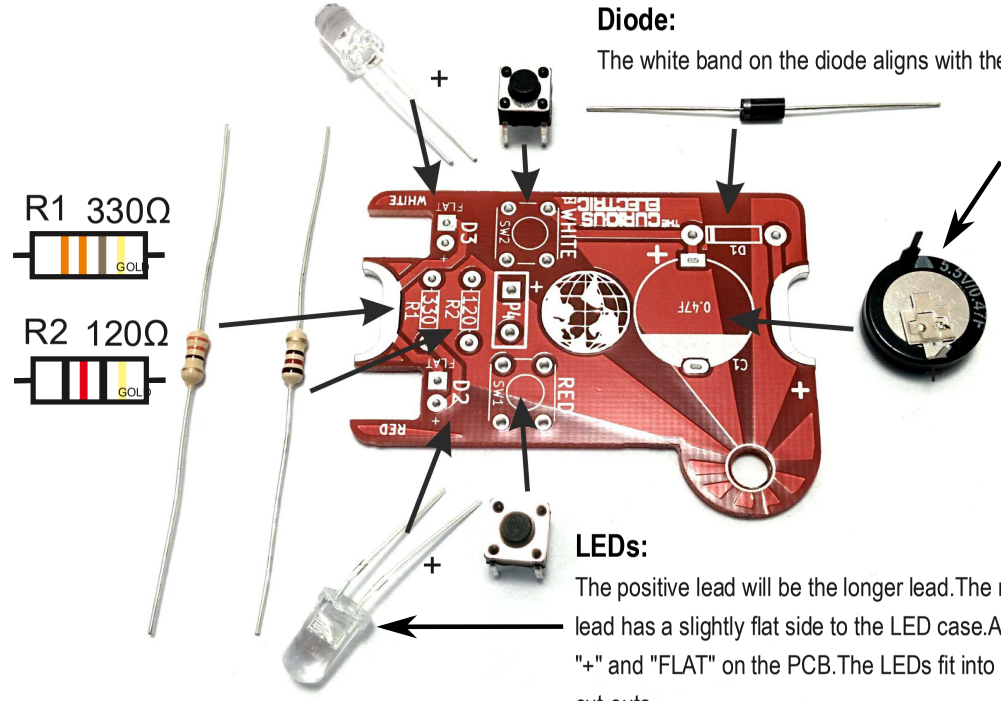

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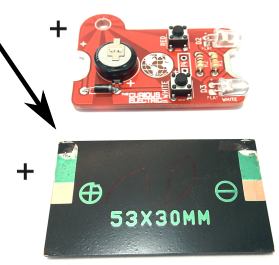

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