



Assembly Instructions

- Place the microcontroller on the printed circuit board. The microcontroller will go on the rectangle outline in the middle of the board. One end on the rectangle has a notch. The microcontroller has a dot on one end. Make sure the dot on the microcontroller and notch on printer circuit board are on the same side. Solder the microcontroller in.
- Note the outline for the LED on the PCB board. It is a circle with a flat side. The LED also has a flat side. Match the flat side of the LED to the flat side on the LED outline on the board. Spread the four leads out to fit the holes. The long lead goes on the hole with the square outline. Double check that the flat side of the LED matches the flat side on the LED outline on the board. Now you may solder the LED in place and trim the excess leads.
- Solder the red wire of the 2xAA battery holder in the hole on the board labeled "v+". Solder the black wire of the battery holder in the hole beside it labeled "g". If you put batteries in the holder, the kit should light up and start rotating through the rainbow.
- Finally add the included pin header in the last two holes to use as switch.

Operating Instructions

- Bridge the two pins with a paper clip and the lights will cycle as follows:
rainbow -> red -> green -> blue -> sleep -> rainbow.

Tips and Hints

- You may add you own momentary push button switch between the "sw" and "g" pins.
- If you use another power source, keep it a 3.3v or below. A CR2032 button battery works great.

Illustrated Assembly Guide at tinyurl.com/qxqvnx7

