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Assembly Instructions

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|--------------------------------|---|
| How To Solder in 5 Easy Steps | ✓ |
| A Quick Note From Dr. Duino | ✓ |
| Pioneer Parts List | ✓ |
| Push Buttons | ✓ |
| Current Limiting Resistors | ✓ |
| Potentiometers | ✓ |
| Light Dependent Resistor (LDR) | ✓ |
| Piezzo Buzzer | ✓ |
| Discrete LED's | ✓ |
| Arduino Uno Headers | ✓ |
| Addressable LED | ✓ |
| Pioneer Shield Mounting | ✓ |
| Using The Remaining Header | ✓ |

Expansion Pack Headers



Quality Check



Assembly Manual Instructions

Discrete LED's



Parts Used In This Step

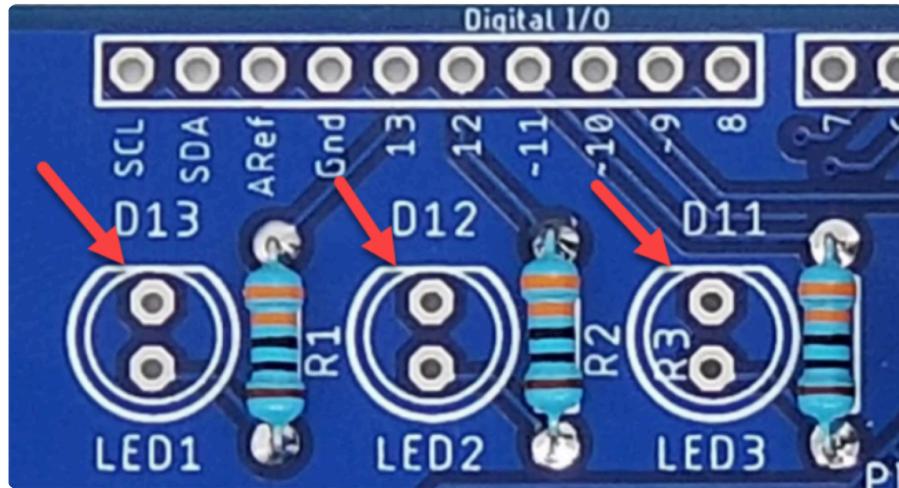
Quantity	Description
3	Red LED's
1	Green LED



Note: Pay particular attention to the shorter leg on the LED's. That is important for orientation.

Installation and Instruction

- 1) Review the PCB's silkscreen and notice the flat spot. This is the negative pin on the PCB.

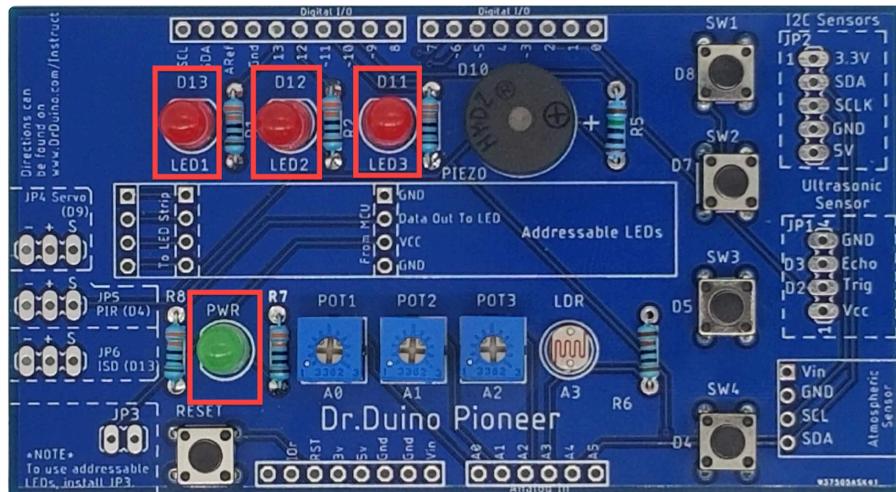


- 2) Identify the shorter leg on the LED, and insert the shorter leg into the hole closest to the flat spot. This is called the cathode, or the negative leg of the LED.

Please note, if these are inserted in reverse, the LED's will not work.

- 3) Populate the red and green LED's as follows.

- 4) Bend all of the component wires over so the LED's don't fall out.



- 5) Turn the board over and solder all of the unsoldered components.

- 6) Clip all of the component leads on the bottom of the board after they are soldered.

