Assembly Instructions

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

Potentiometers ♡

Parts Used In This Step

| Quantity	Description
3	10K Ω (ohm) potentiometer

These potentiometers are also known as variable resistors. The Philips head screw terminal on top is used to change the resistance from 0 Ohms to 10,000 (10K) Ohms.
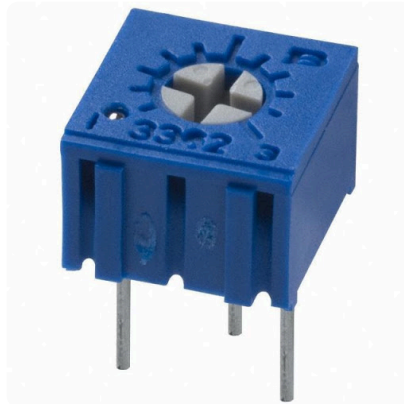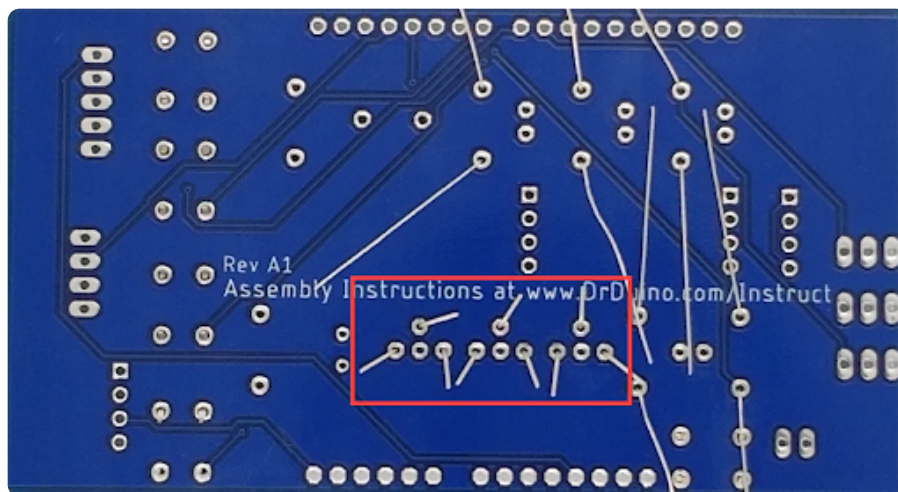

Installation Instructions

1) Populate the three potentiometers into the PCB. Notice that each potentiometer has 3 pins which are offset. They will only insert one way.
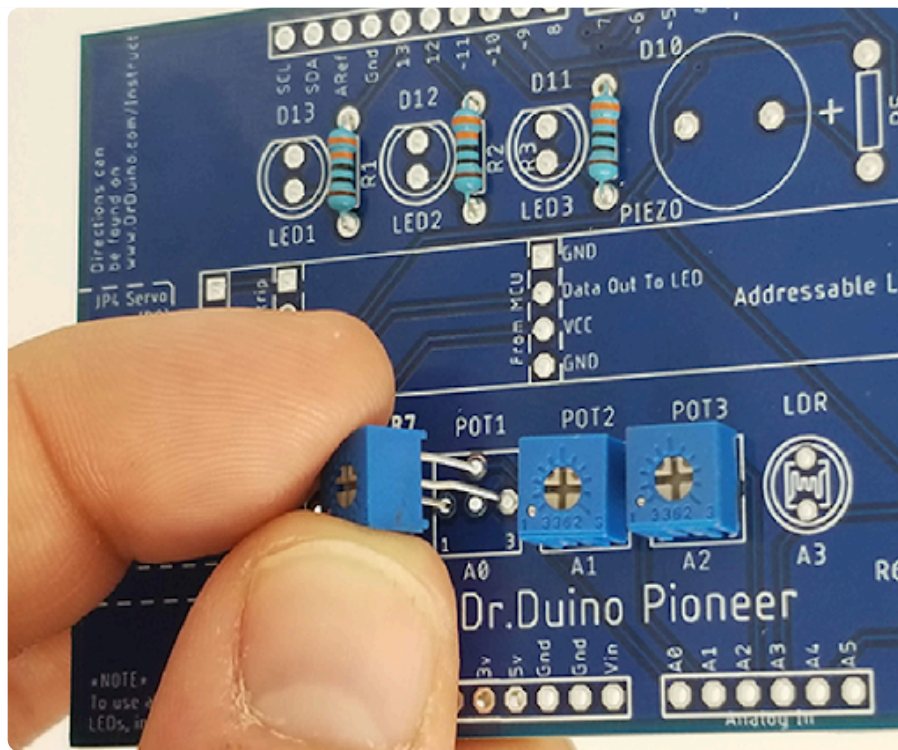
After all three potentiometers are populated, flip the board over and bend the pins so that they don't fall out.

⚠️ **IMPORTANT!**

Before you begin soldering, make sure you are wearing safety glasses.

3) Solder all of the installed components we just populated.

(Resistors, pushbuttons, potentiometers)

4) Using a pair of quality snippers, cut off the excess wires close to the PCB.

> **Note- If you don't have a pair of quality snippers, I highly recommend these:**
>
> › Quality Snippers