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Assembly Instructions

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| Using The Remaining Header | ✓ |

Expansion Pack Headers



Quality Check



Assembly Manual Instructions

Addressable LED



Parts Used In This Step

Quantity	Description
1	Addressable LED Stick
1	4 Pin Right Angle Header



Installation Instructions



IMPORTANT!

Depending on what shipped with your kit, your led might not say DI and 4-7 VDC.

DON'T WORRY!

IN is equal to DI (Either nomenclature means INPUT)

4-7VDC is equal to VCC (Either nomenclature means POWER IN)

1) Start by identifying which LED stick type you have A or B.

Orient the stick so that the DI pin is on your left-hand side. This is the Data-In Pin.

The difference in TYPE A and B is how the pins are laid out and will be very important in the next few steps.

2) We want to attach the 4-pin right angle header to the side that has the DI.



IMPORTANT!

If you solder it to the side with DO it will not work.



3) Heat up the DI pin with a soldering iron and place a small amount of solder on this pad. This is known as wetting the pad.



4) Next, we will attach the 4-pin header to the addressable LED stick by tack soldering it.

In order to tack solder it, hold the 4 pin header using a pair of pliers over the 4 pads of the LED stick.

You will need to tack solder the shorter pins of the header to the LED stick.

Heat up the DI pad which you just placed a bit of solder onto
while also heating up the header.



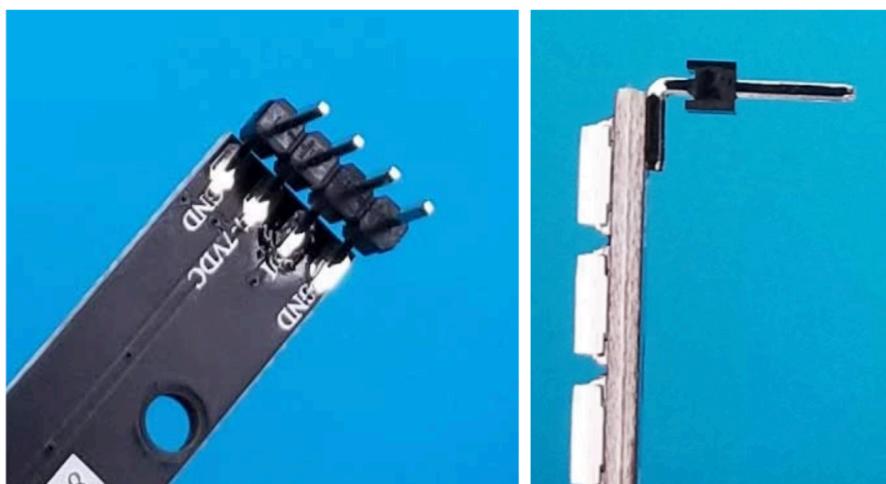
Do your best to keep the header as flush and in the middle of all of the pads as possible. Even if you are off by quite a bit, it will still work so don't worry too much.

You don't need to hold this very long, it's just to tack it down to the board, we will re-solder it in the next few steps.

If you have a bit of trouble doing this at the same time, use the PCB holding Jig if you purchased it.

If you didn't, you could also try weighing down the back of the addressable LED stick with a ceramic mug or something else heavy enough to keep it from moving around.

After tack soldering the one pin you should have a perpendicular header which looks like this.



5) Solder the rest of the pins to the header starting with the Ground pin, then 4-7V pin, then the other ground Pin.

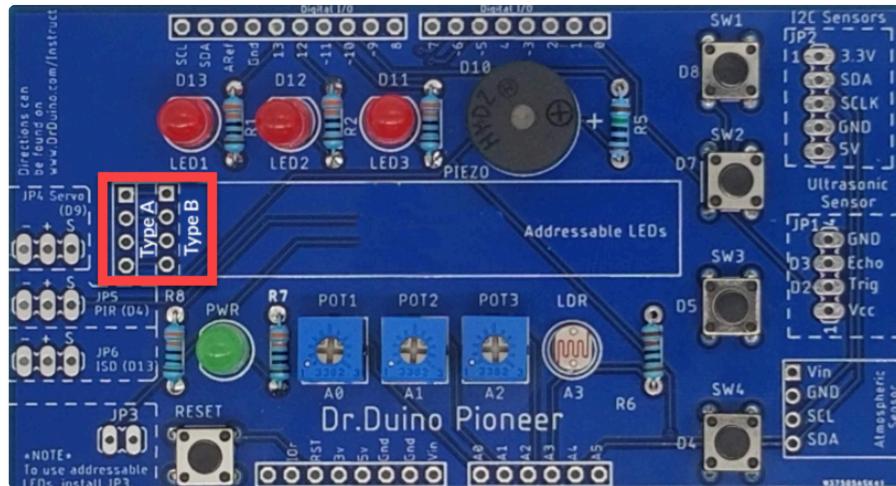
Finally, re-solder the DI again to make sure it has a good connection.

Below is the order in which this should be done.

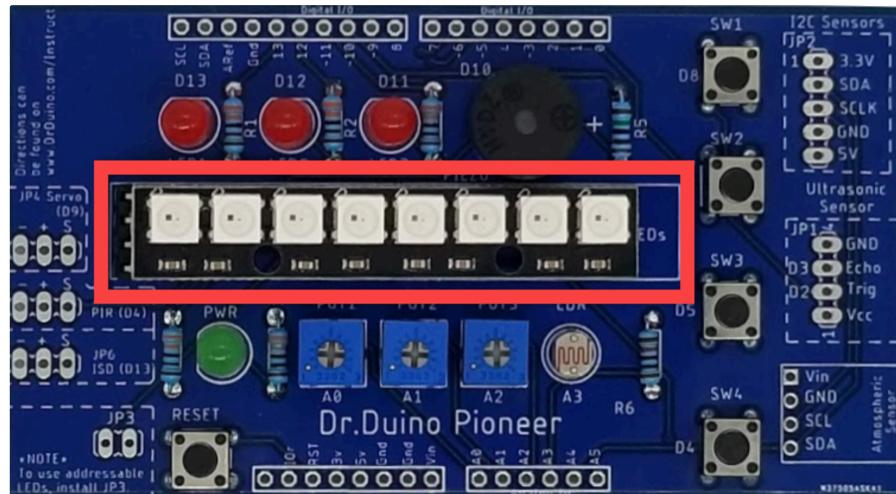


6) Next, locate the LED stick on the PCB, paying special attention to where TYPE A and B are.

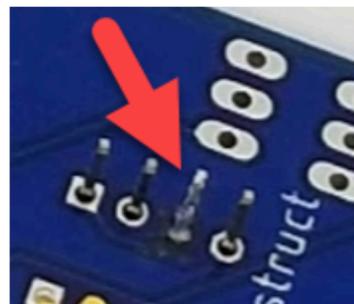
7) If you have a Type A LED stick, insert it into the Type A holes in the PCB. If you have a Type B LED stick, insert it into the Type B holes in the PCB.



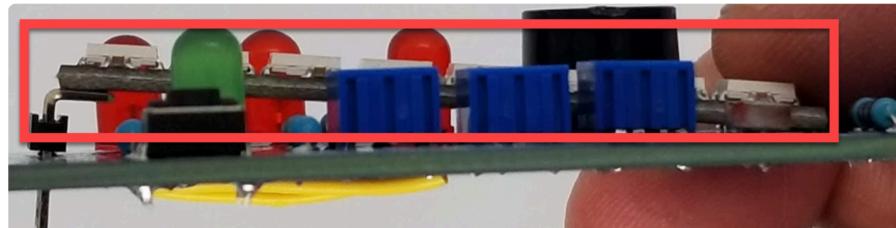
8) Insert the addressable LED stick into the PCB until it is flush with the board as displayed below.



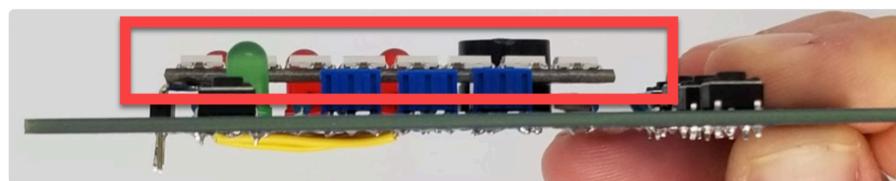
9) Flip the board over and solder just one of the inner pins.



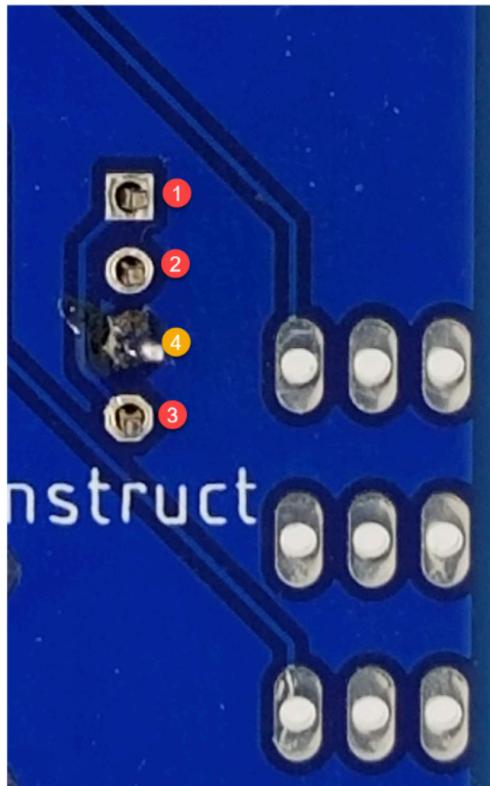
10) This may cause the LED stick to be slanted downward.



This will not create an operation issue. You can either leave it like that or pull very gently on the LED stick until it is parallel with the Pioneer shield.



11) Solder the remaining pins of the LED stick in the following order.



12) Clip the protruding pins after they are soldered. Again, make sure you are wearing your safety goggles as these little guys can fly off very quickly.