

Make sure you have everything before you start soldering!

## What You'll Need:

- Midi Expander Kit
- Soldering Iron
- Solder
- Wire Cutters
- Small Phillips Screwdriver

-  Polarity doesn't matter
-  Polarity DOES matter

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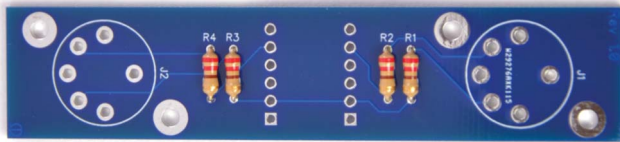
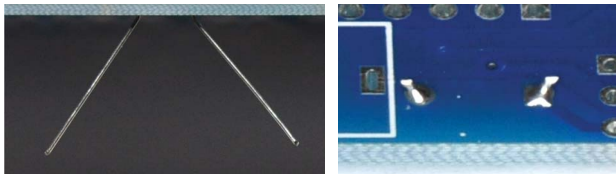
### Install Resistors



Let's install the resistors first. There are 4 resistors in this project (R1-R4), and they are all the same value.

Insert the resistors into their proper locations. Polarity doesn't matter for resistors, but your board will look neater if you line up all the tolerance bands (gold) the same direction. Bend the leads outward underneath the board to hold the resistors in place.

Flip the board over, solder the resistor leads, then trim them just above the solder joint.



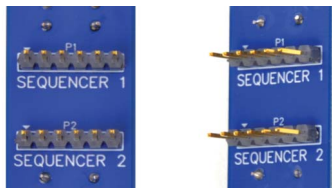
 For a quick soldering tutorial, visit [division-6.com/solder](http://division-6.com/solder)

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### Install Headers



Install and solder headers P1 and P2. Make sure they are inserted into the board straight. There is no need to trim the leads on these parts after soldering.



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### Install Standoffs



Use the four silver screws to attach the four standoffs to the main PCB near the pads for the MIDI connectors.



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### Install MIDI Jacks



Install MIDI jacks J1 and J2, making sure they are straight up and down. You can test-fit the front panel to check that the jacks line up with the holes in the panel. Solder the jacks. You don't need to trim the pins after soldering.

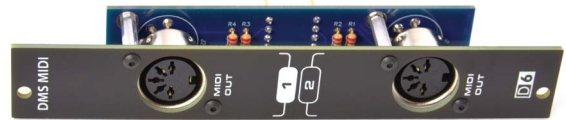


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### Install Front Panel



Use four black screws to attach the front panel to the module.

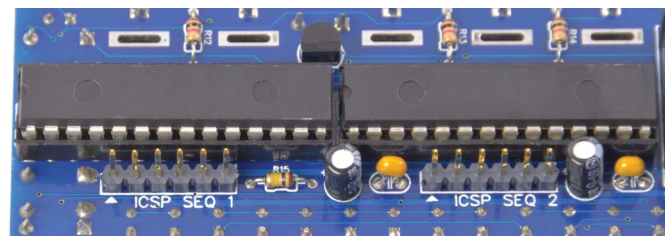


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### Install Dual Mini Sequencer Headers



Your Dual Mini Sequencer will need programming headers installed to connect the MIDI Expander to. If yours aren't populated, install the two extra headers that are included with this kit.



Use the included ribbon cables to connect the two headers on the expander module to the programming headers on the DMS. Make sure the same color wire goes to pin 1 (indicated by an arrow) on both ends.

