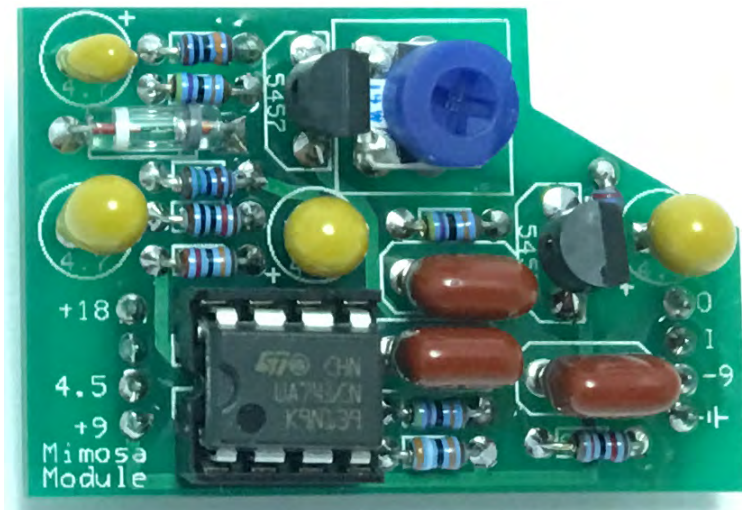


Build Your Own Clone Crown Jewel Mimosa Module Instructions



Parts list for the Crown Jewel Mimosa Module Pack

Resistors:

- 1 - 1k5/152 (Brown/Green/Black/Brown/Brown)
- 1 - 2k4/242 (Red/Yellow/Black/Brown/Brown)
- 1 - 10k/103 (Brown/Black/Black/Red/Brown)
- 1 - 82k/823 (Gray/Red/Black/Red/Brown)
- 1 - 100k/104 (Brown/Black/Black/Orange/Brown)
- 1 - 220k/224 (Red/Red/Black/Orange/Brown)
- 1 - 390k/394 (Orange/White/Black/Orange/Brown)
- 3 - 470k/474 (Yellow/Purple/Black/Orange/Brown)

Capacitors:

- 1 - .0022/222 Film Cap (May say "222" on the body)
- 2 - .047uF/473 Film Cap (May say "473" on the body)
- 4 - 4.7uF Electrolytic

IC:

- 1 - 741 Single Opamp

Diodes:

- 1 - Germanium Diode

Transistors:

- 2 - 2N5457

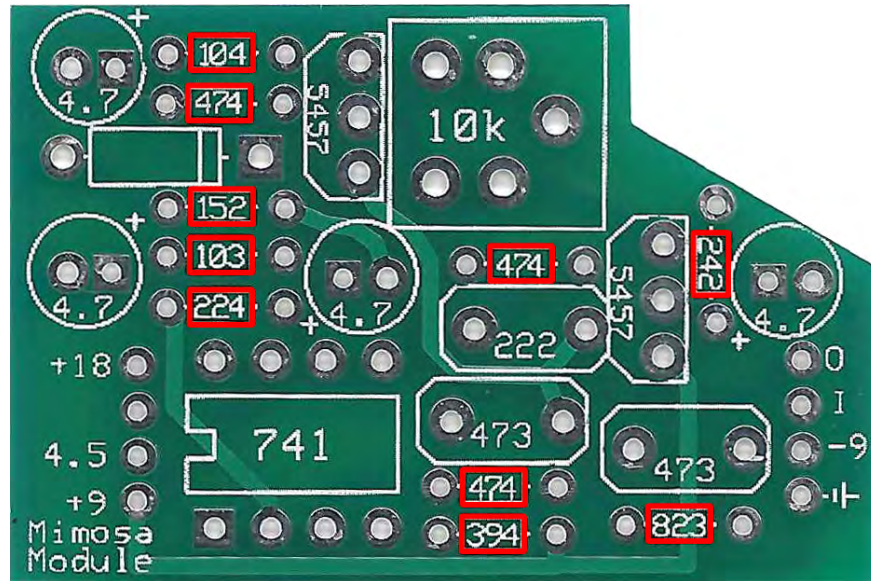
Potentiometers:

- 1 - 10k Trimpot

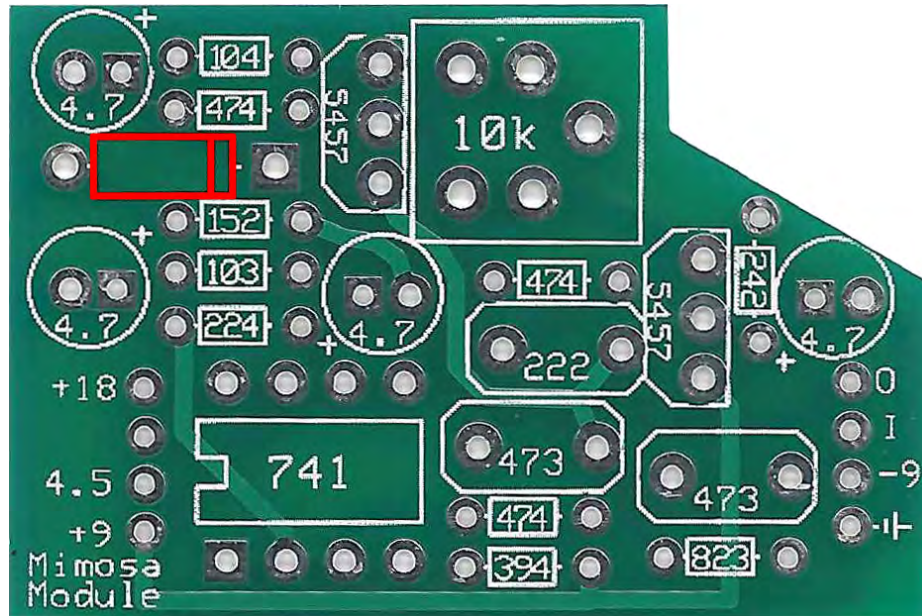
Hardware:

- 1 - DIP8 Socket
- 2 - 1X4 pins

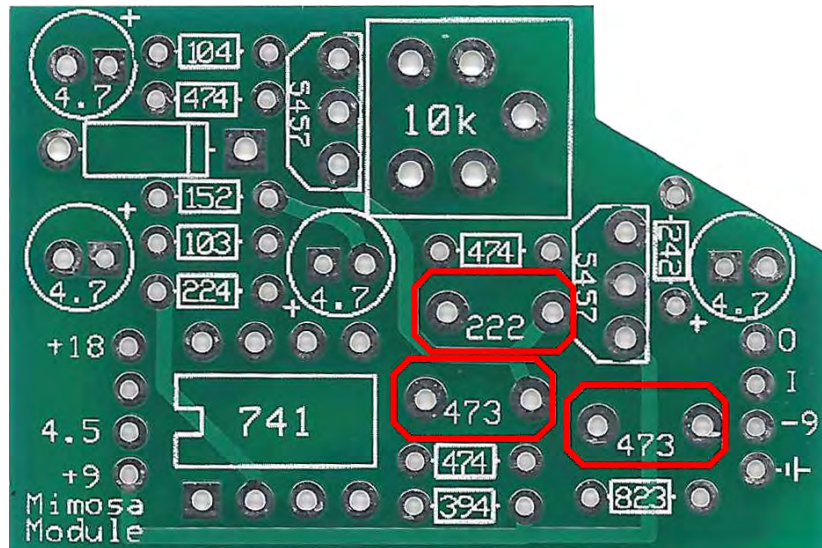
Step 1: Add the resistors. These are not polarized and can go in either direction.



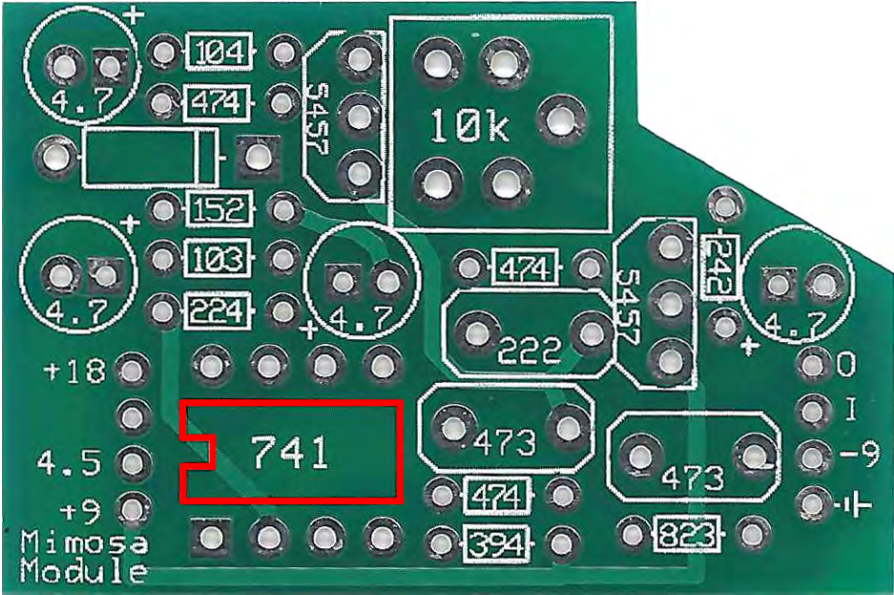
Step 2: Add the diode. The diode is polarized, so the orientation matters. Match the striped end of the diode with the striped end on the PCB screenprint. If your diode has one white stripe, and one gray stripe, place the gray stripe in the square hole. **If your diode has a dot on one side, place the end with a dot into the round hole.**



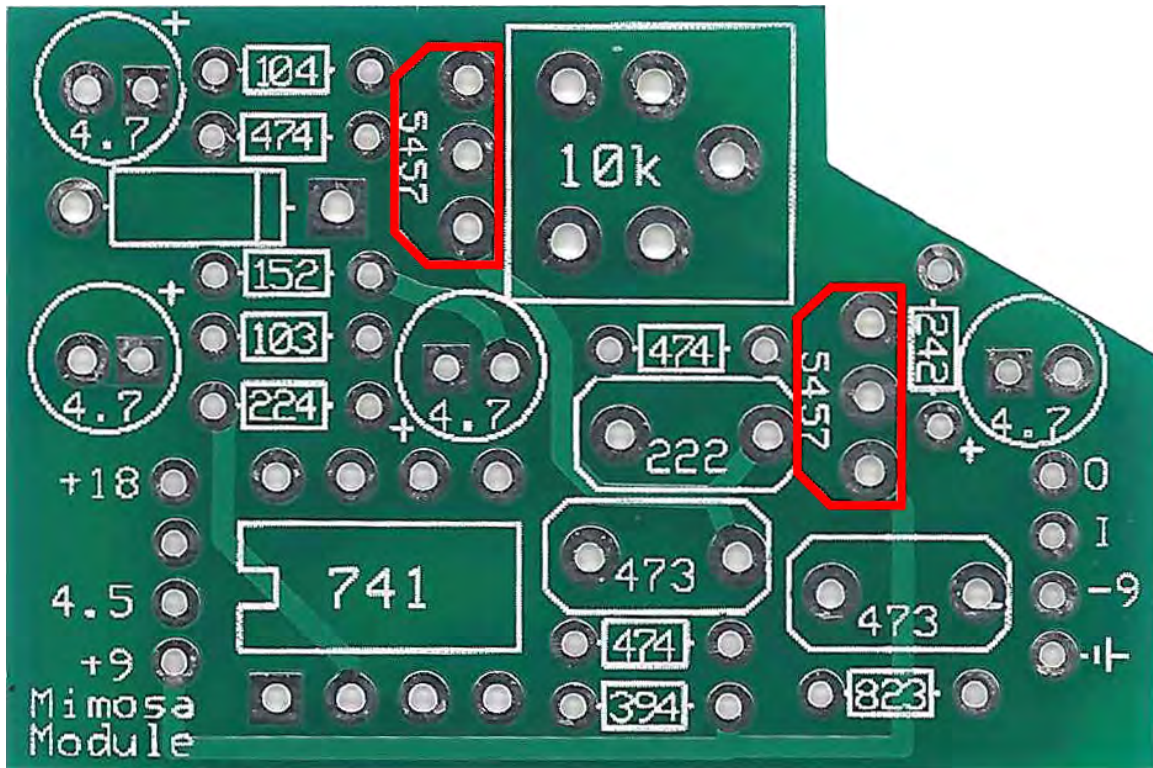
Step 4: Add the Film caps. These are not polarized and can be placed in either direction.



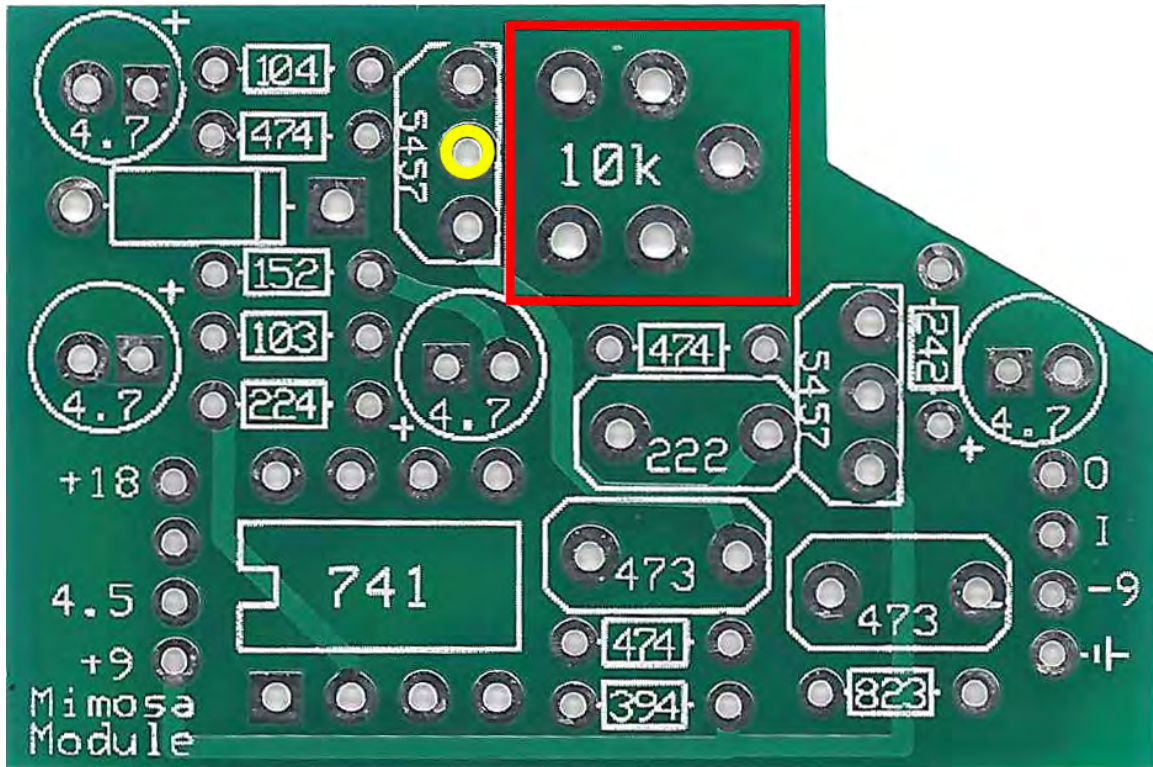
Step 5: Add the IC socket. Be sure to match the notch on the socket with the notch on the PCB screenprint.



Step 6: Add the transistors. Be sure to match the flat side of the transistors with the PCB screenprint.



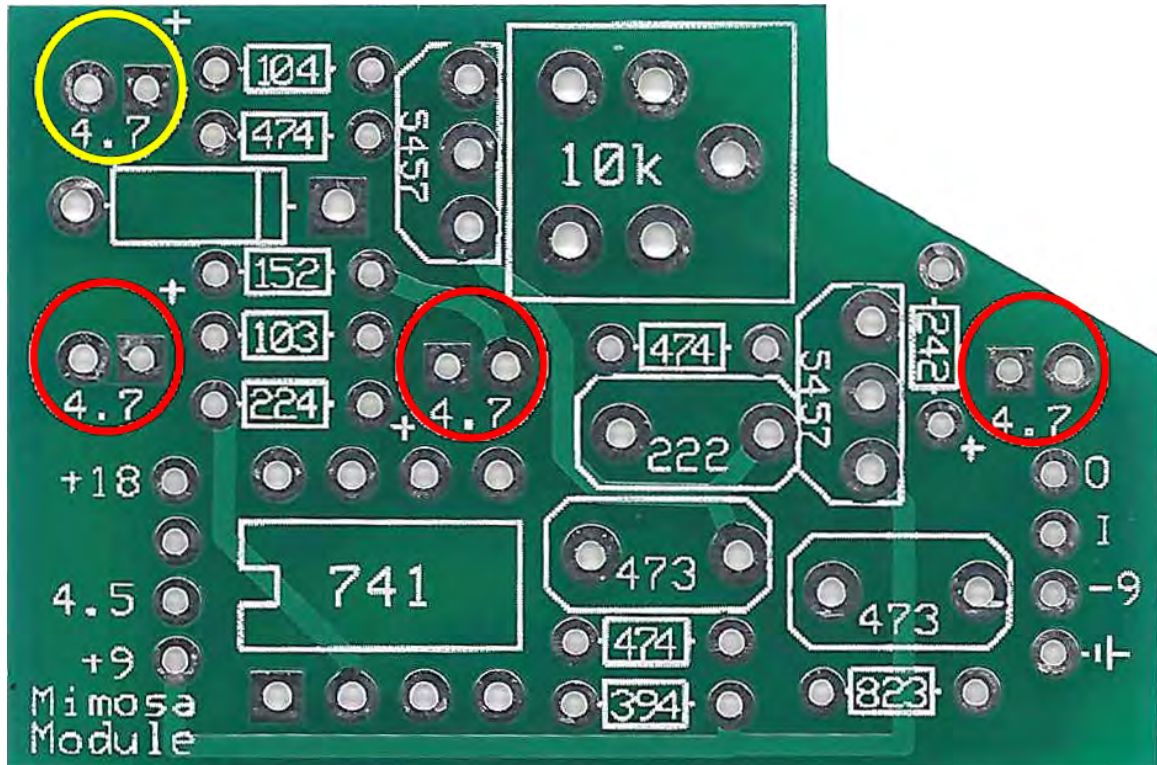
Step 7: Add the trimpot. There are 5 holes on the PCB, but your trimpot will only have 3 legs. This is to accommodate various styles of trimpots. Your trimpot will only orient in one direction.



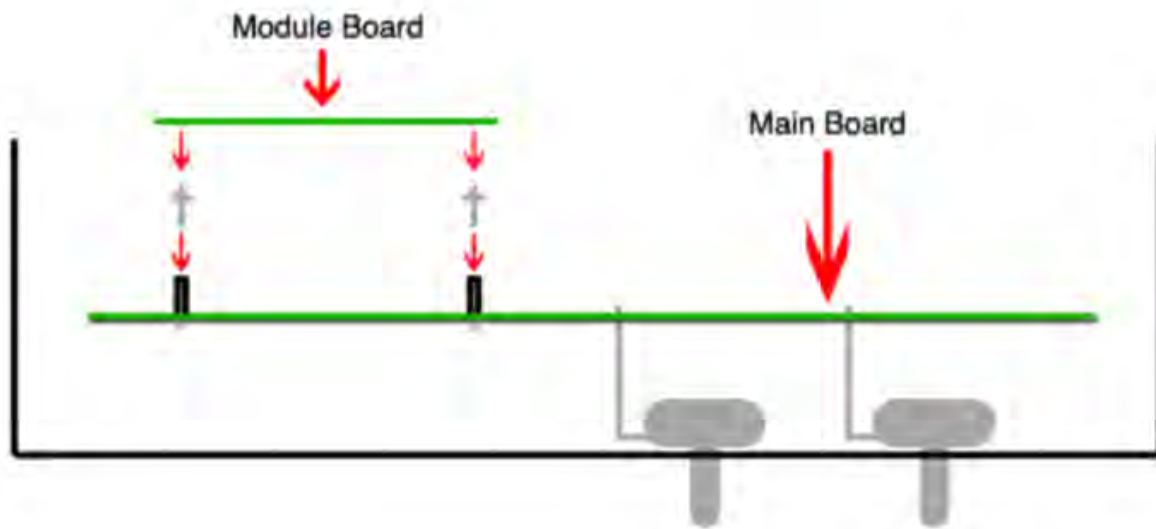
Note about the Trimpot: When you have finished building your mimosa Module, you will need to adjust the bias trimpot before the module will actually compress. You want to adjust the trimpot so that you get approximately 1.5-1.7V on the source of Q2. This is the eyelet highlighted in yellow.

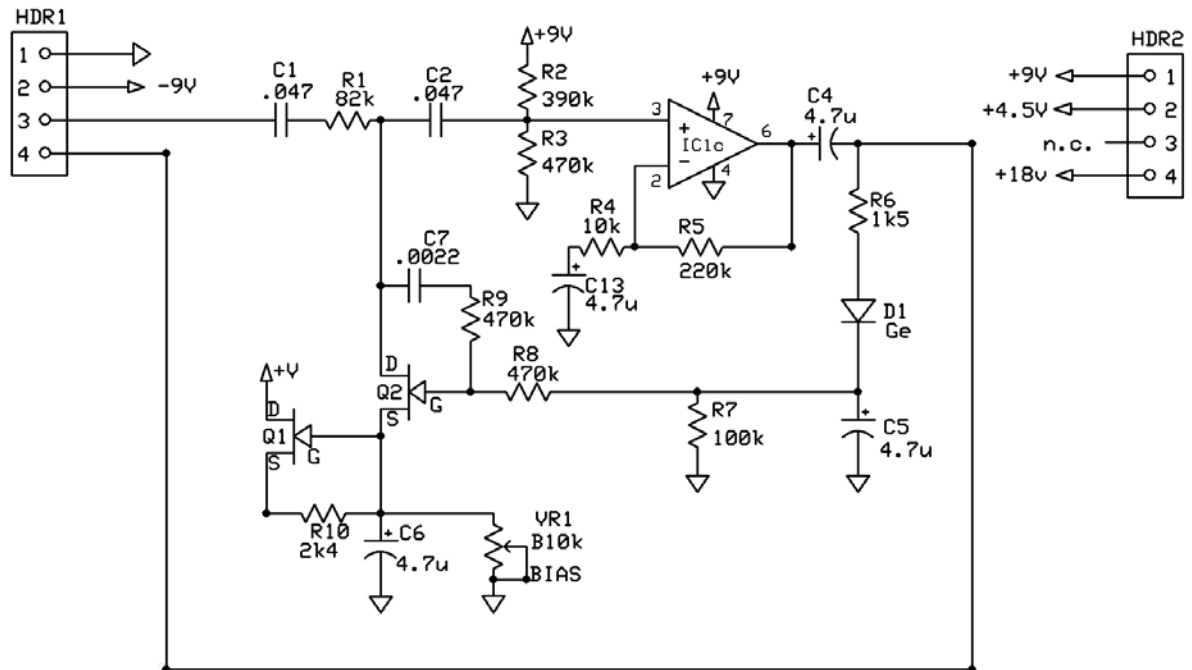
Step 8: Add the electrolytic capacitors. These are polarized. Be sure to insert the long lead into the square hole. The body of the electrolytic capacitors will also have a stripe along the negative side.

Note: Use a 2.2uF capacitor in the yellow outlined spot if you want more “squish”.



Step 9: Insert the pins into the Crown Jewel header spots as shown below be sure to place the longer end of the pins into the headers. Once the pins are placed, guide the module board onto the pins and press down slightly so the module is sitting flush on the pins. Solder the top-side of the module at the pins. This helps align the pins and headers to the module board.





Build Your Own Clone		
Crown Jewel/Mimosa Module		
Designed by: K. Vonderhulls	Rev 1.0 5/2/2017	Copyright 2017