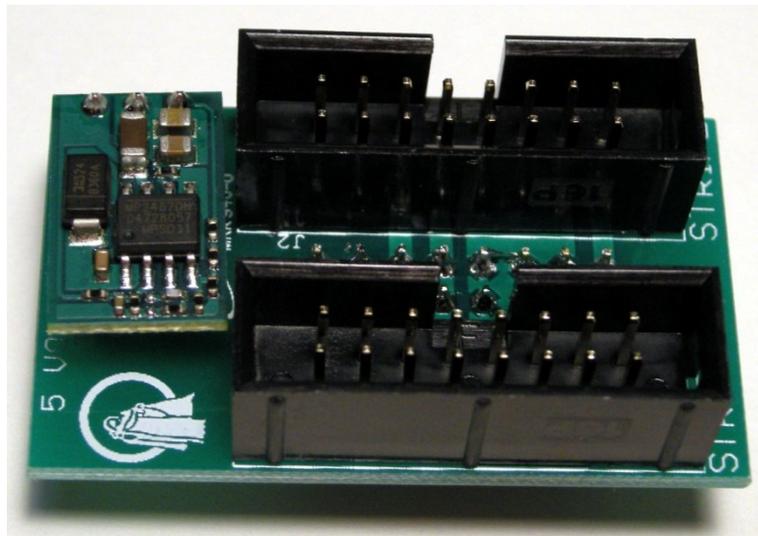


5 Volt Adapter Kit

Assembly Instructions



Circuit Abbey

5 Volt Adapter Kit Description

The 5V Adapter Kit is an easy way to get 5 volts in a case that does not have 5 volts. It also provides 2 power connectors so you gain a connector instead of losing one.

Assembly

First unpack the components and lay them out as shown:

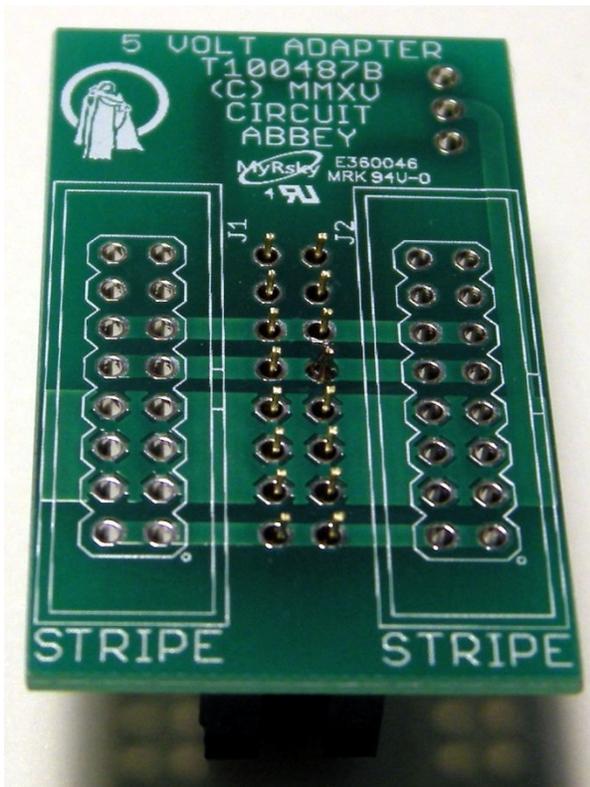
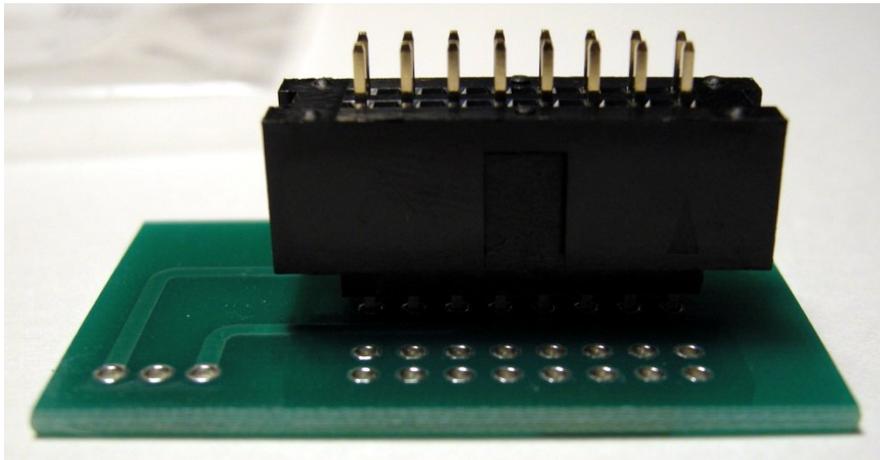


Make sure all of the components are present. If you are missing components, email support@circuitabbey.com for replacements.

Parts List:

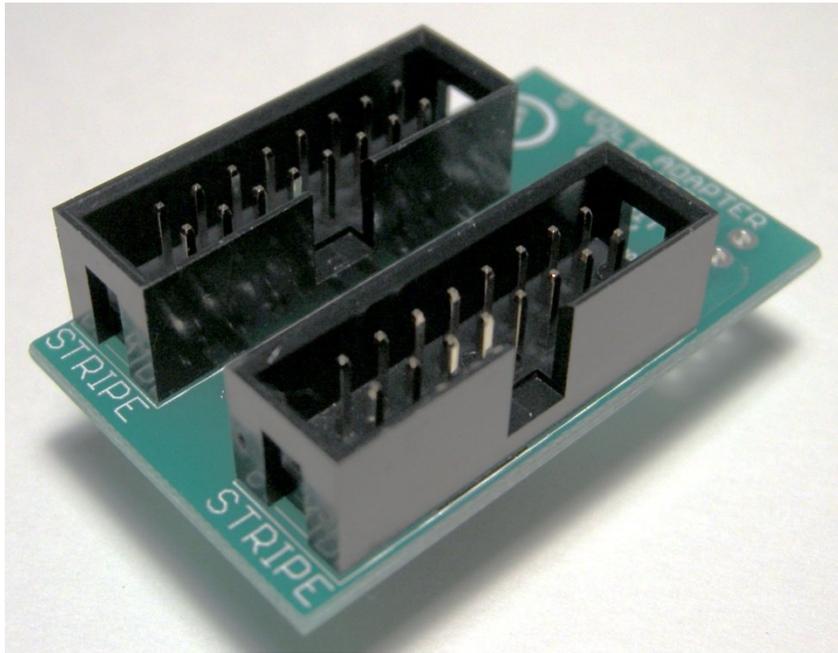
Qty	Title
2	Header,2x8,shrouded 0.1" PTH
2	header,1x8 Fem 0.1"

Start by inserting the 2 8-pin female sockets. It is handy to use one of the other connectors to hold them together:

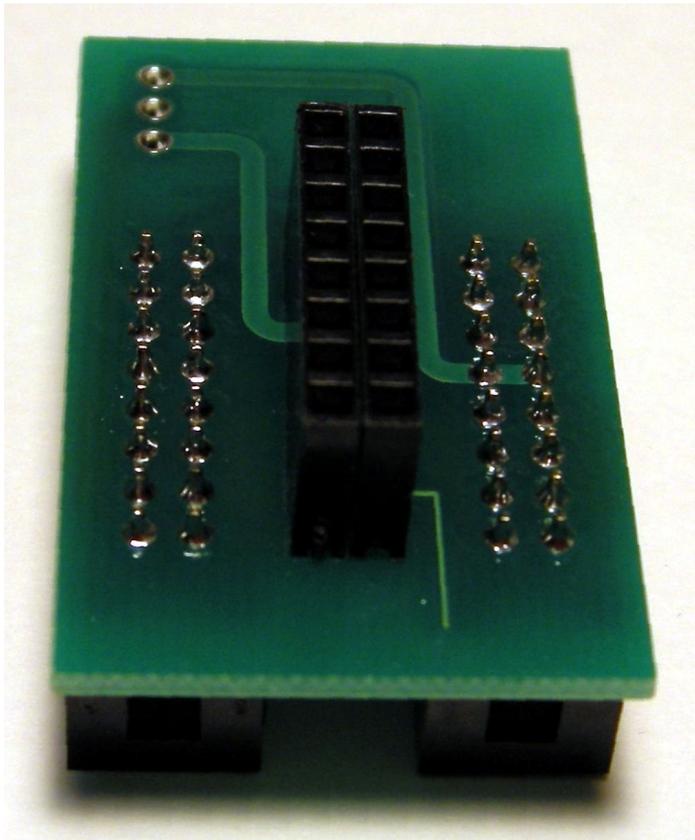


Solder the connector in place.

Insert the shrouded headers in to the board. Be very careful to get the orientation correct:



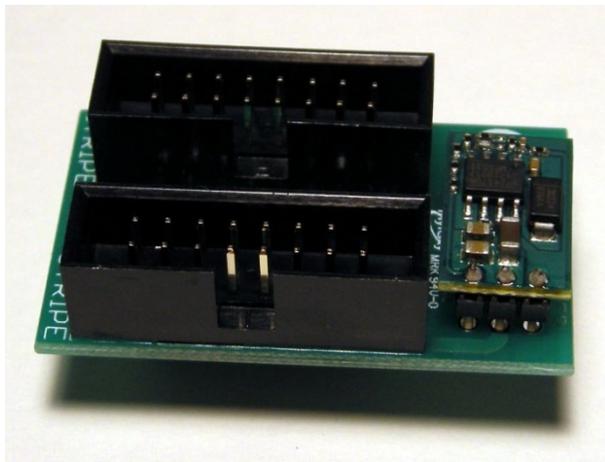
Invert the board and solder the connectors in place:



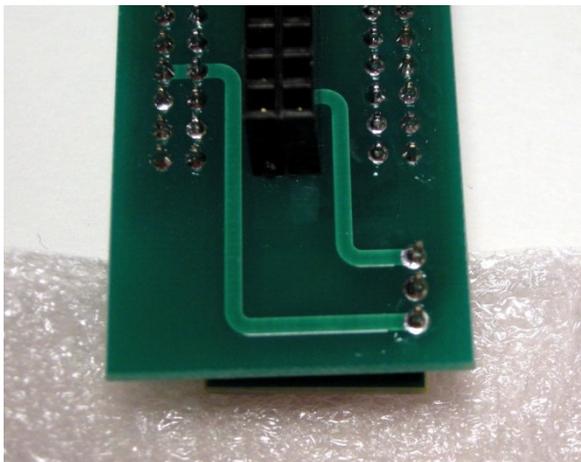
Locate the “5V Reg” bag and unwrap the 5V regulator:



Insert the regulator:



Invert the board and solder the regulator in place: Use masking tape (or method of your choosing) to hold the regulator in place:



Installation and Use

The 5V Adapter plugs into any Eurorack power connector. Be extremely careful when installing the adapter as it is possible to get the connector off center. This will cause problems and possibly damage modules. Once the adapter is installed inspect it to make sure it correct. Once you are satisfied it installed correctly you can use hot-melt glue to secure it in place. This will keep it from detaching when you unplug a cable.

The 5V Adapter provides a 5 volt supply to cases that have no 5 volt power supply. It does this by taking the +12 volt power supply and regulating it down to 5 volts. The regulator is a switching type that has efficiency of about 90%, meaning for every watt of power it wastes only about 100mW. A linear regulator would waste 1.4 watts. The switching regulator operates at a frequency far above hearing (500 KHz) so there should no interference.