

# Assembly of the AIDA PSU filter and installation guide

---

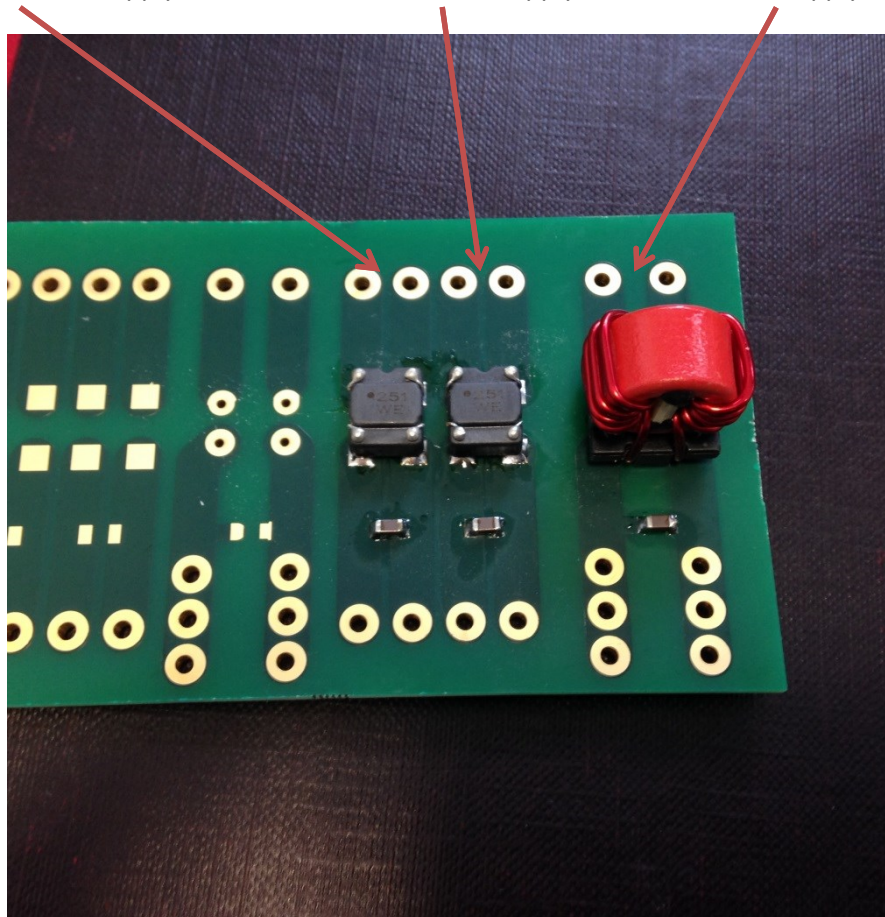
The old power supply board should be removed and the pillars left in place. The new board has mounting holes to fit. Once the components are assembled the board can be installed and the wiring connected to allow each FEE64 power connector to have filtered power from a single set of filters.

Wires that exist between the +7v and -6v fuses and the FEE64 connectors will need to be carefully cut to allow their re-use. The position of the cut will need to be chosen with this in mind.

The common 0v connections of the -6v and +7v inputs to the filters can be constructed to suit good wiring practice.

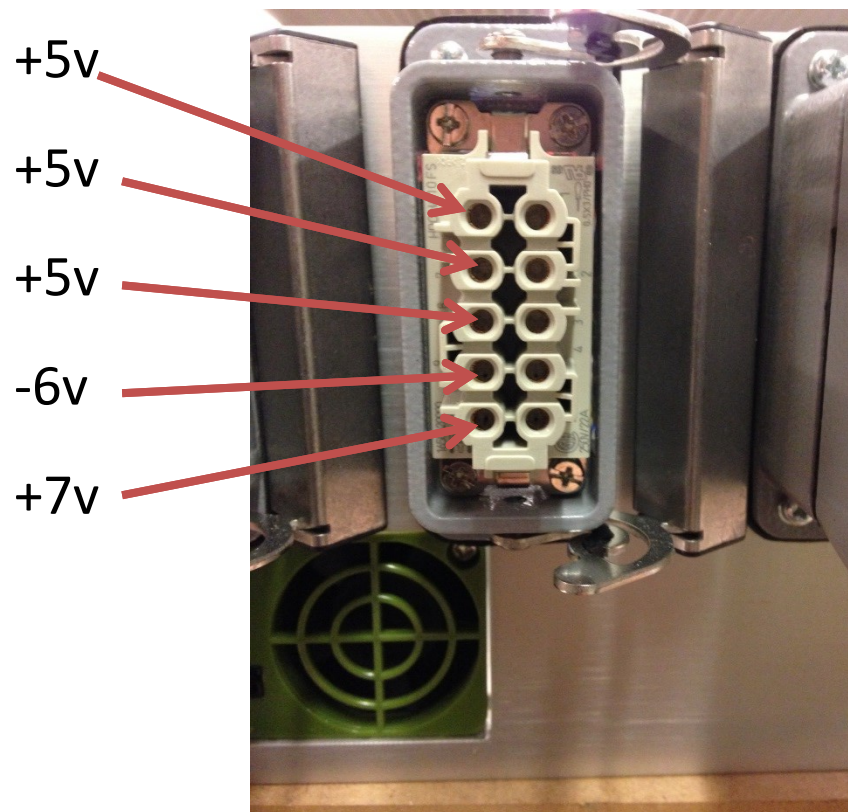
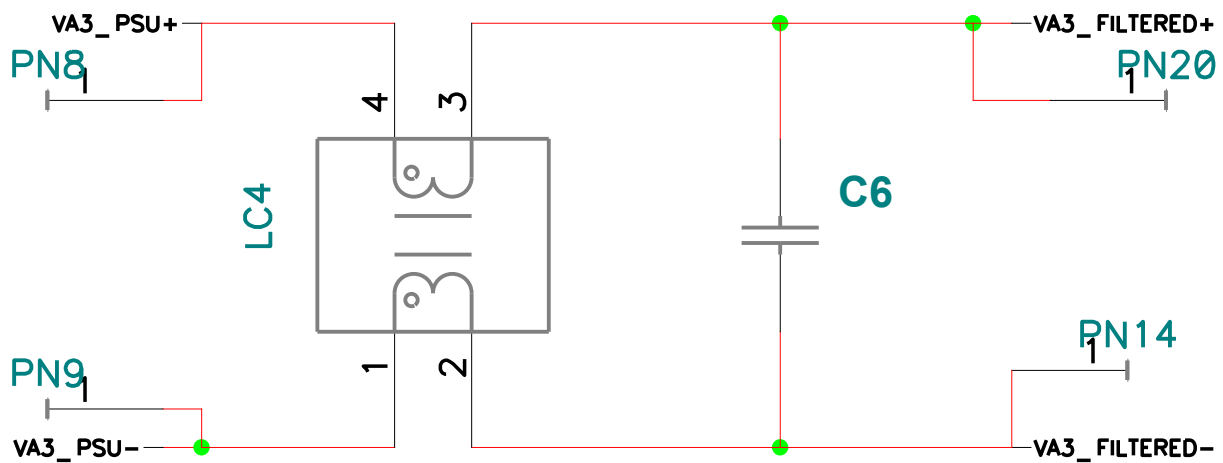
The following shows a single FEE64 supply filter with components for the -6v, +7v and +5v filters mounted. The filters comprise a common mode choke and a 10uF capacitor each. The +5v filter is supplied by a PSU board shared between two FEE64. The -6v and +7v Filters are supplied from a single PSU board each for all eight FEE64 with a separate fuse for each FEE64.

Wire to -6v fuse and supply 0v    Wire to +7v fuse and supply 0v    Wire to +5v supply board



Wire the filter outputs to the appropriate pin of the FEE64 supply socket.

This is a schematic of a Filter.



All the pins on the right are 0V.

It is important that the 0v connection from the filter only connects to the 0v pin for the supply voltage at the connector.

So numbering the sockets in the picture above from top left as pin 1, top right as pin 2, then +7v ( pin9 ) has a 0v from its filter as pin 10.