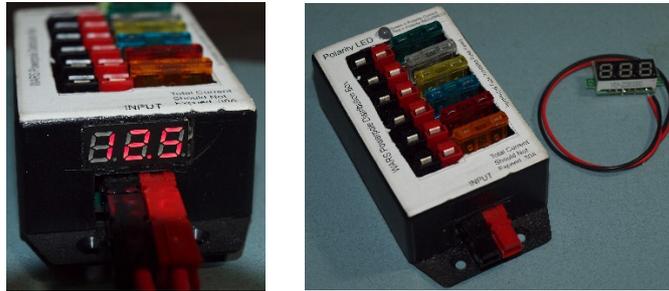


Instructions for installing or retrofitting the optional Voltmeter to the WARS Powerpole Distribution Kit.



Your kit should contain the following parts:

1 x Voltmeter module

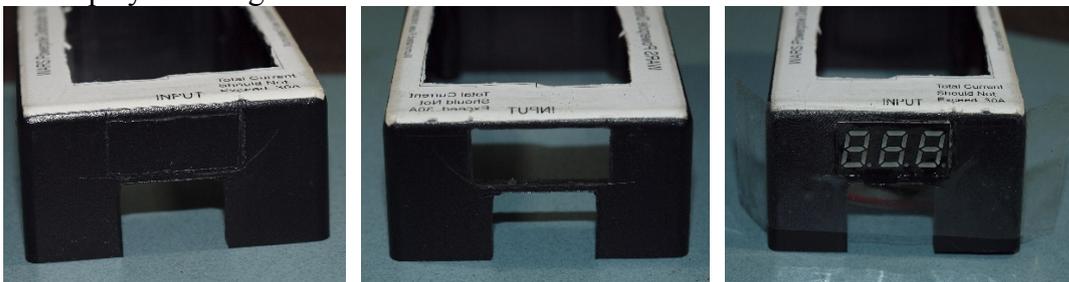
Initial Preparation

If you have already built the kit previously, disassemble it and remove the PCB from the main box section.

Box Preparation

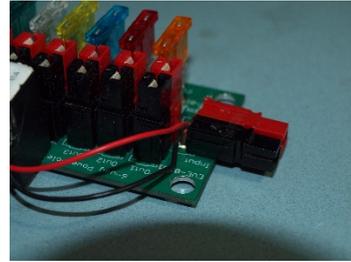
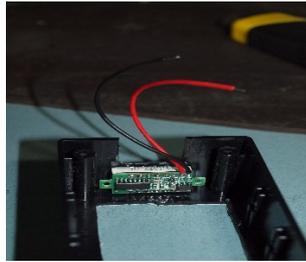
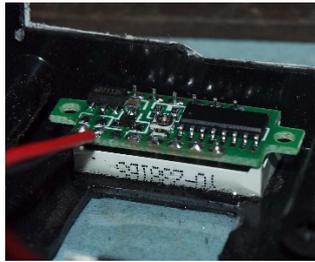
This is the only major operation in retrofitting the voltmeter. It fits into the space directly above the input Powerpole on the end of the box.

Start by marking a line 22.5mm long and 2.5mm down from the top surface of the box and centred along the top of the box. Next mark a line at each end of this line, 10mm long vertically and then join the two ends of those lines together. You should now have a rectangle marked 10mm x 22.5mm centred over the input connector. Carefully cut out this hole by whichever means you desire. I normally use a Dremel and then finish with a sharp knife followed by a file. You may need to file it out slightly until the display is a snug fit.



Note that the wires come off the bottom edge of the voltmeter PCB (the dots should be along the bottom when viewed from the display side).

Once the voltmeter is a snug fit, use some 5 minute Araldite, or similar, to glue it into place. A piece of adhesive tape across the front of the hole and meter will help to keep it in place whilst the glue sets.

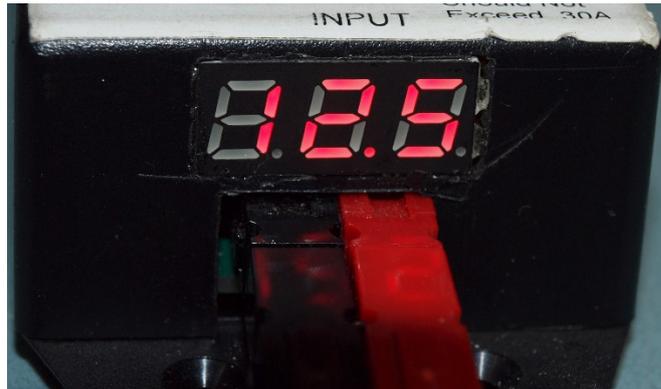
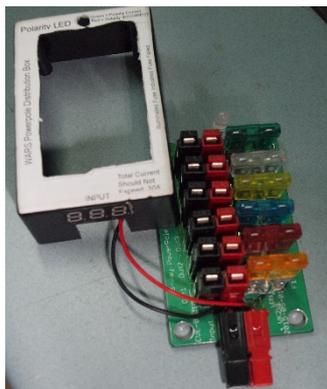


Final Assembly

Once the glue has set, trim the red and black wires to about 75mm from the meter, strip and tin them about 3-5mm and connect the two wires, red to positive (+) and black to negative (-) across the input connector where it connects to the PCB.

Test to make certain that the voltmeter indicates the voltage when power is applied. Reverse polarity will not harm the voltmeter module. There is a tiny pot near the centre of the PCB which can be used to trim the voltage to the correct value if it is a bit far off.

Once you have tested the module, assemble, or re-assemble, the board back into the box and replace the lid securing with the 4 screws and inserting the 4 rubber feet.



Final Notes

I have found that the connection wires on the voltmeter have a bit much bare wire where they connect to the voltmeter PCB so I unsolder them, trim them to about 2mm and then resolder them. This will reduce the likelihood of them becoming twisted and shorting.