

# Ten-Tec Orion and Jupiter Molex to Anderson Powerpole Conversion

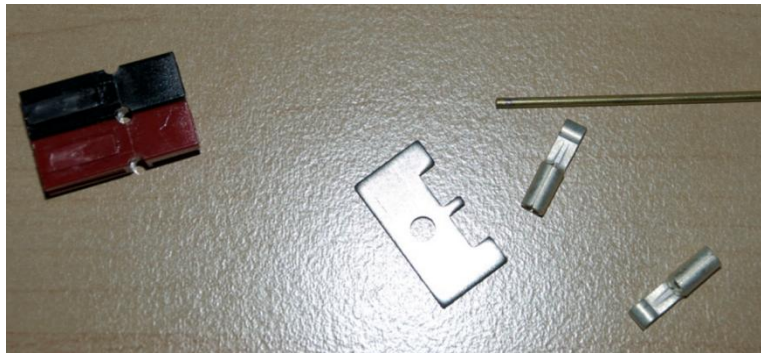
By  
Fernando Quinones N2FQ/6

## Preparation of Powerpole Connectors

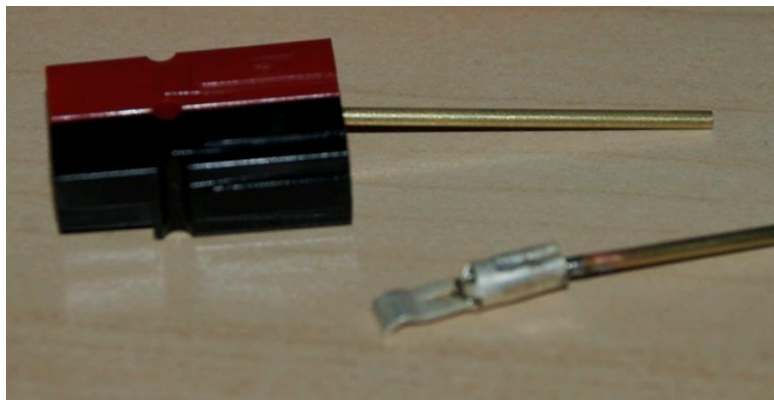
For both the Orion and the Jupiter the parts list and preparation of the Powerpole connectors is identical:

1. Anderson Power Pole 30 amp connectors (1 red and 1 black)
2. half of retaining plate and
3. 1/16 (1.57mm) o.d brass tube (typically found in hobby shops).

NOTE: Powerwerx.com has the Printed Circuit Board connector instead of having to roll your own.  
SKU 1377G3.



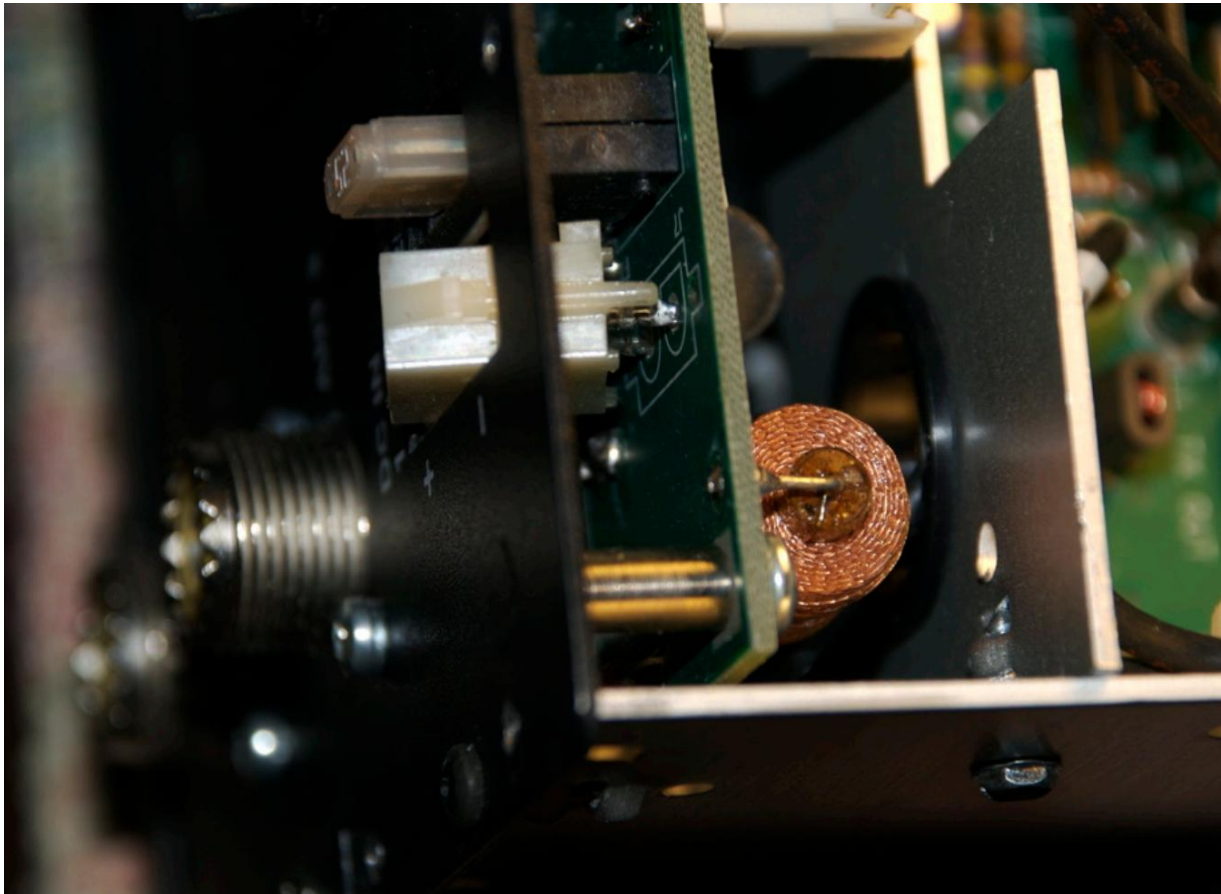
The Powerpole connectors are then prepared using approximately 1 inch (25 mm) pieces on 1/16<sup>th</sup> inch O.D. tubing.



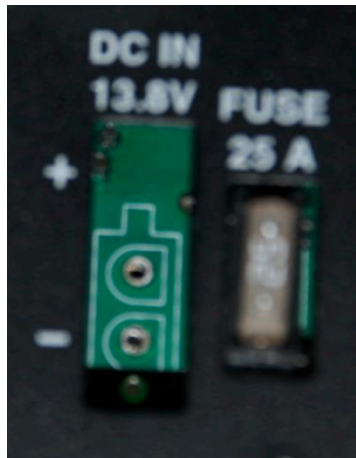
## Orion Powerpole Conversion

(For Jupiter Powerpole conversion see page 6)

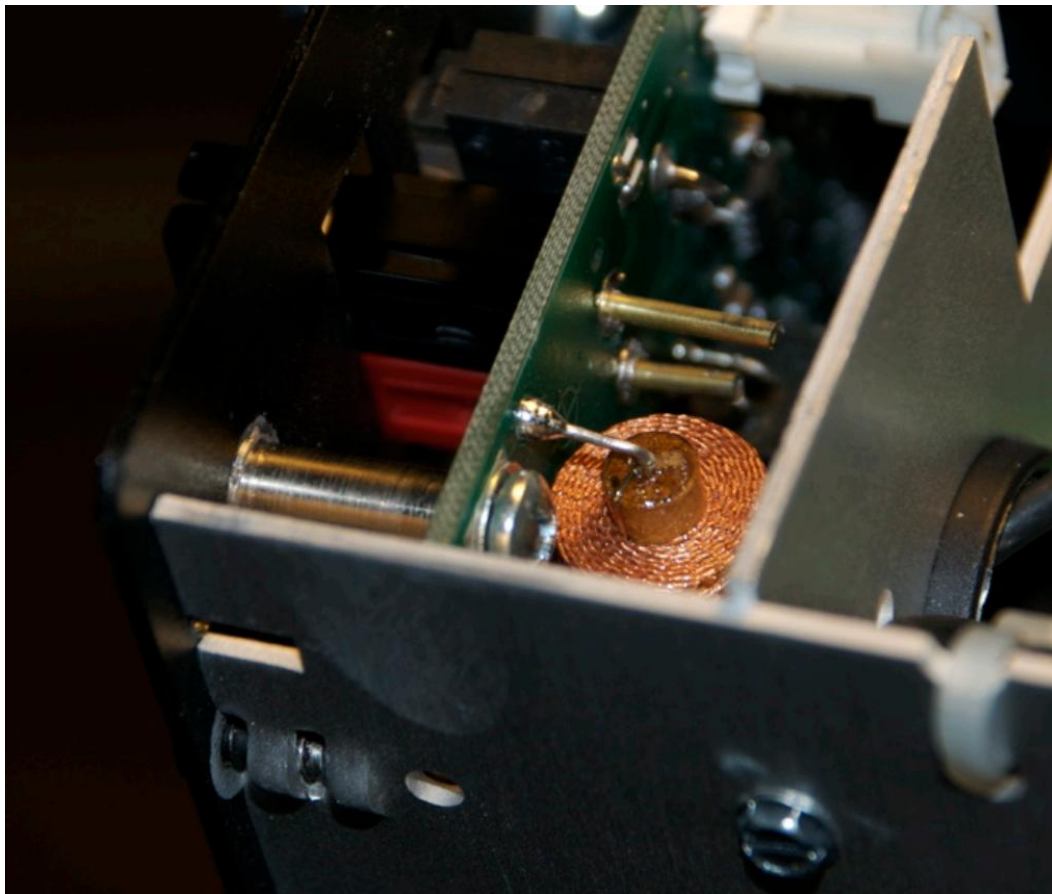
With the top and bottom case removed from the Orion. Unsolder the Molex power connector.  
(The photo shows the Molex connector partially removed.)



The PCB holes are then cleaned.



The pair of prepared Powerpole connectors are locked (sliding the adjoining pairs) together and the tubing is carefully inserted into the previously cleaned holes.

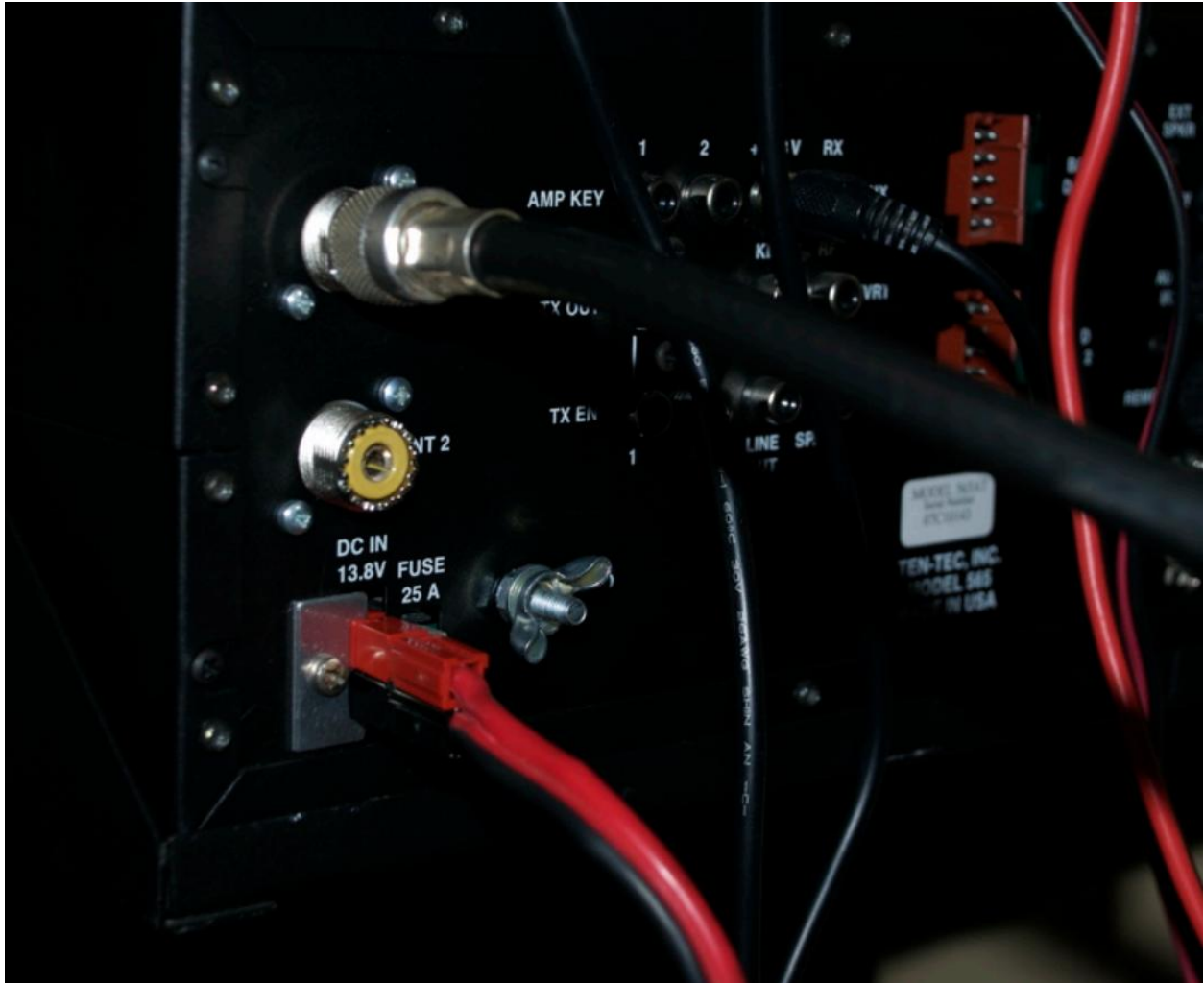


Here's a view of the rear of the rig.



Finally, half of the retaining plate is installed to provide strain relief.



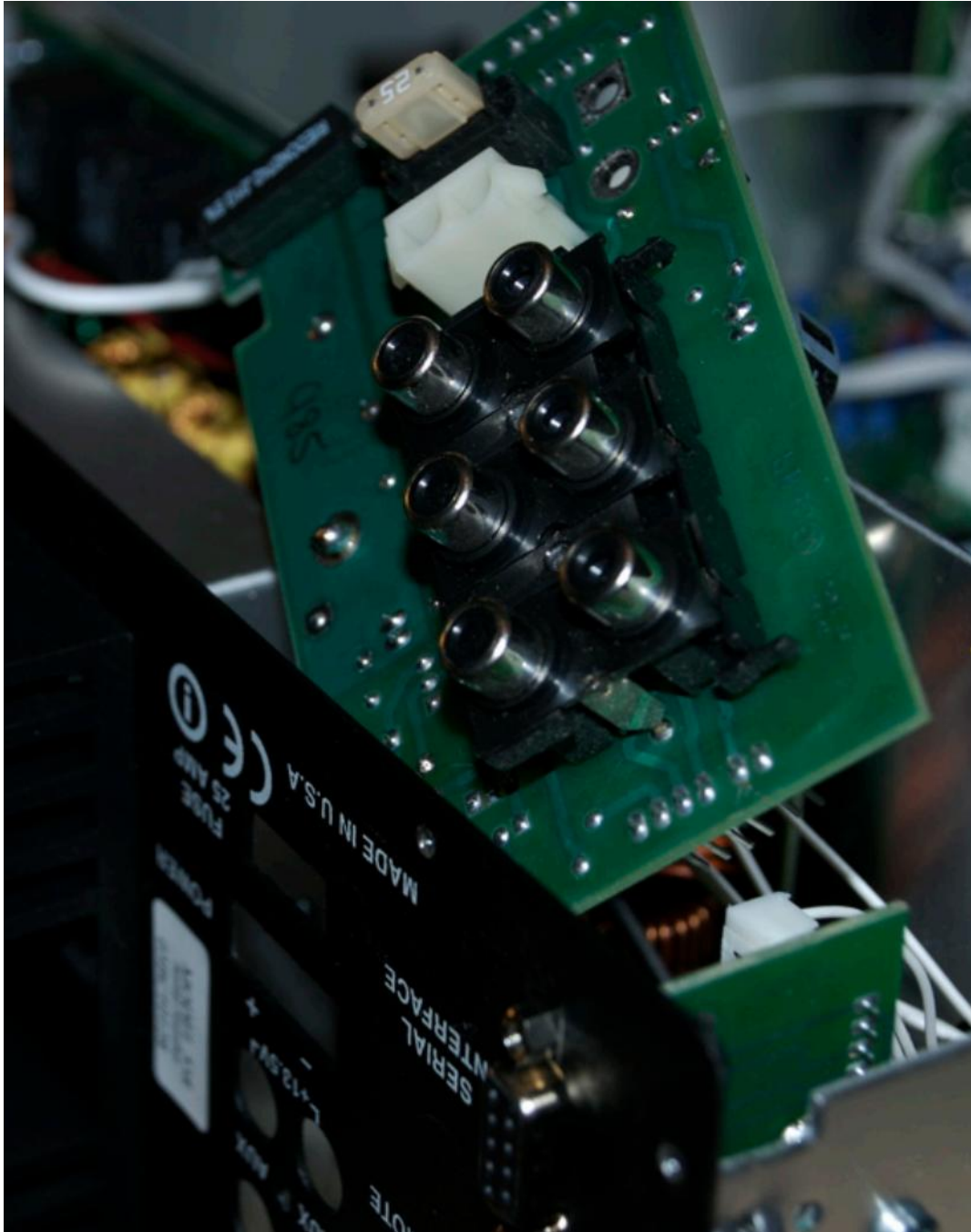


A touch up of the retaining plate and screw with some black paint would complete the modification.

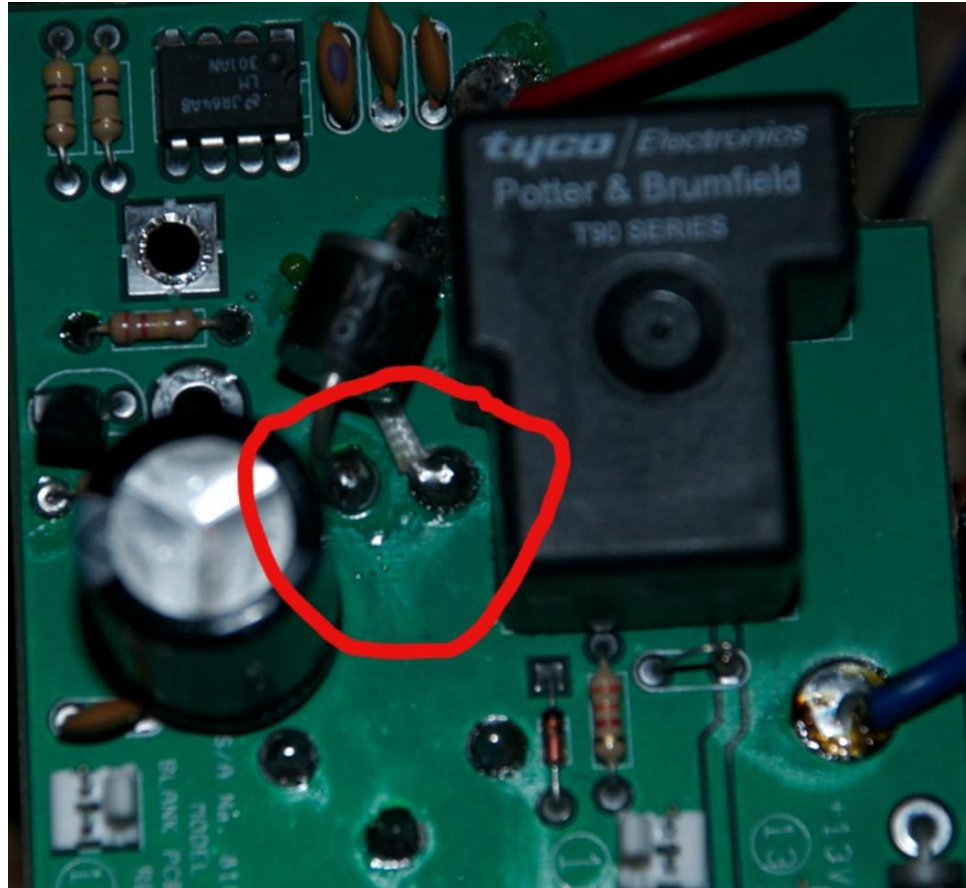
## Jupiter Powerpole Conversion

Having successfully converted the Molex connector on my Orion to Powerpoles, I decided to proceed and convert my Jupiter as well. The preparation of the Powerpole connectors is identical to that described earlier for the Orion.

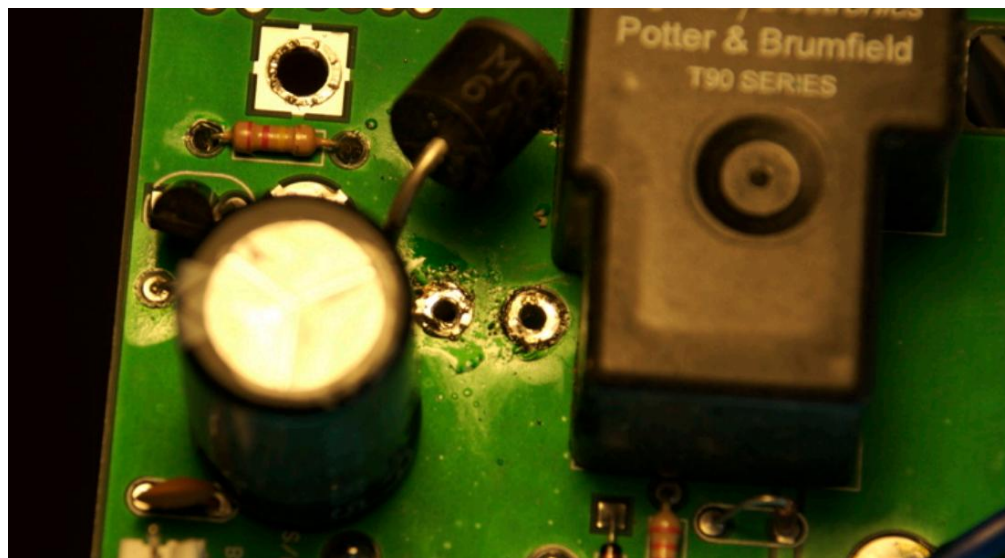
In the Jupiter the power supply board needs to be given some slack to get access to the Molex connector pins. This involves removal of 4 screws and some edge connectors.



Here is the location of the Molex pins and 2 additional components that attach to them.



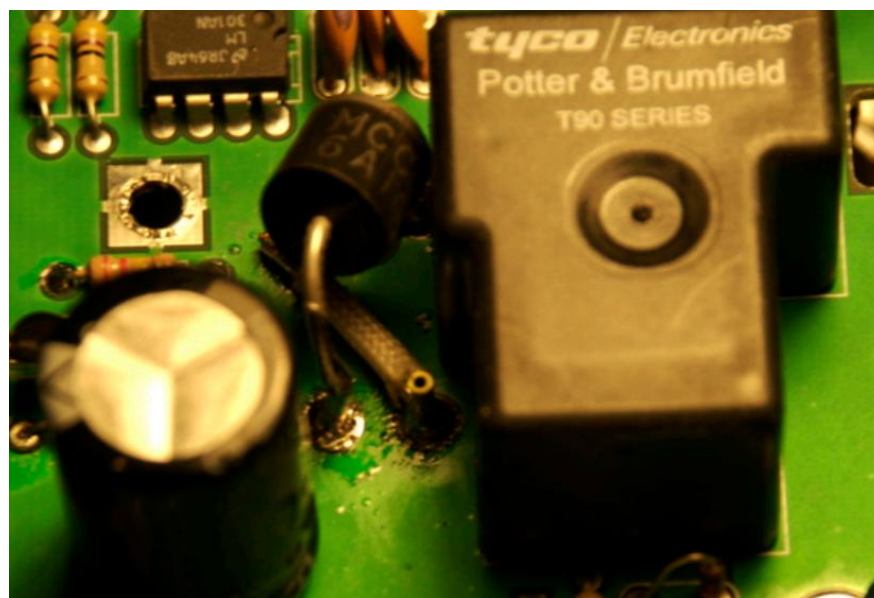
As previously described with the Orion, the Molex connector is removed and the holes cleaned.



The previously prepared Powerpole connectors are soldered in place.



... and the two additional components were attached.



Finally the half of the retaining plate was installed to provide strain relief.



Edited by:  
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