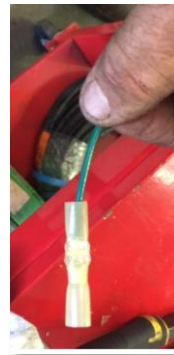




Submersible Solar Water Pumps

Replacing MPPT Controller Board - Instructions

- 1) Prepare the new controller:
 - a) Attach joining crimps (5 supplied) to the wires (not necessary if you choose to solder instead).



- b) Remove mounting bracket and discard.



- c) Scrape off excess resin.



- 2) Use multi-grip pliers to remove lower c-clip from motor base.



- 3) Use flat head screwdriver to pry the metal plug from the pump base.



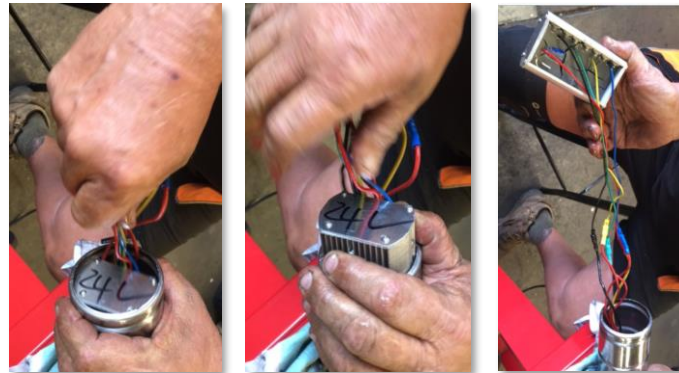
- 4) Remove the rubber plug. This is what seals in the mineral oil.



- 5) Drain the oil into a clean tub so it can be reused.

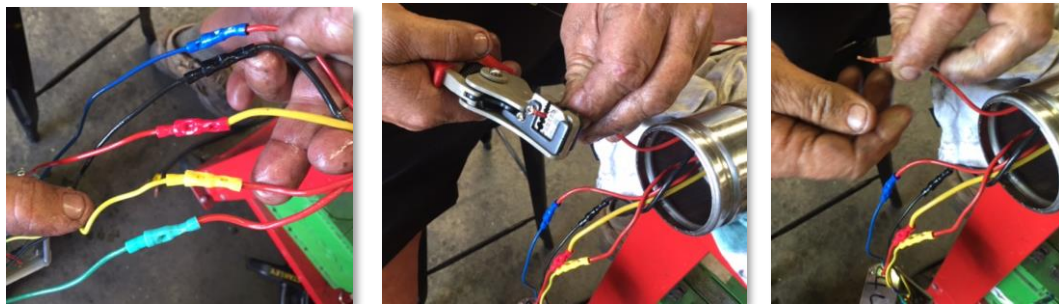


6) Extract the old controller.



7) Cut and reconnect the wires one by one taking care to ensure the wires are connected in the same colour pattern.

- a) Wires can be joined using crimps or a soldered connection.
- b) Remember, the wire colours between the pump and the controller do not match!



8) Reinstall new controller.



9) Add oil back into the pump cavity.



10) Reinstall rubber plug.



11) Reinstall metal plug, deep enough for the c-clip to go in next.



12) Reinstall c-clip.



13) Apply power to test briefly.