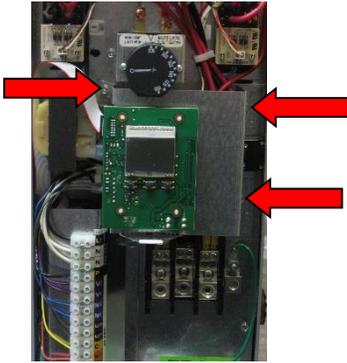


Hydra Revolution

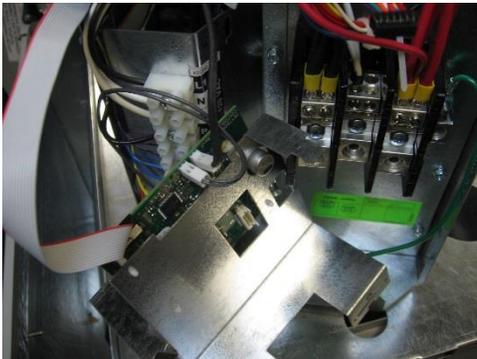
Power board replacement procedure

This procedure must be completed by a qualified technician. Take time to carefully read each step included in this document before proceeding. Special care must be taken in regards to the electrostatic charges as well as the correct application of the heat paste on the modulating components.

- 1- Turn off all electrical power sources
- 2- Remove the front cover of the unit
- 3- Remove the three screws holding the control board mounting bracket

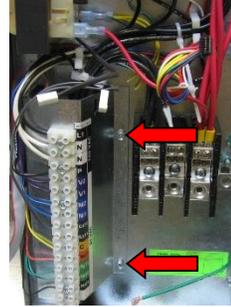


- 4- Unplug all the wires going to the control board

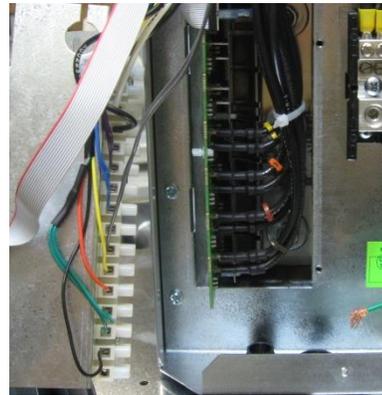


- 5- Place the control board and its support in a safe location

- 6- Remove the two screws from the triac protection plate

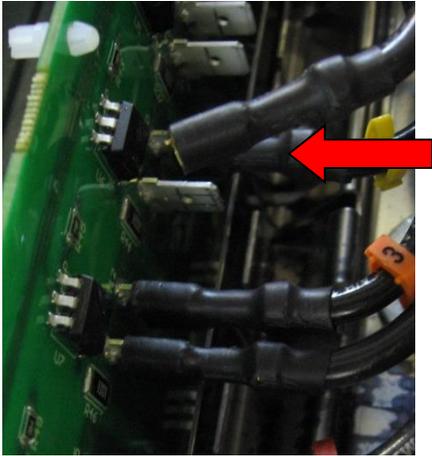


- 7- Gently lift the right side portion of the plate in order to free the two tabs on the left. (It might be necessary to disconnect the thermostat wires and the wires that control the pump in order to move the plate)

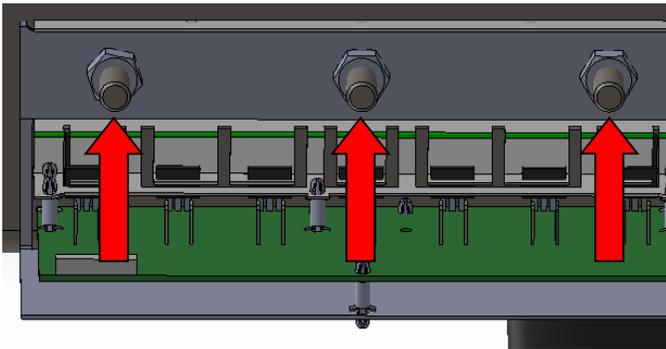


- 8- Move the protection plate to the left of the machine in order to access the power board

- 9- Gently unplug all the wires connecting to the power board



- 10- Remove the three nuts holding the power board mounting bracket in place; If washers were installed, they can be discarded



- 11- Carefully remove the defective power board assembly as to not lose the nuts

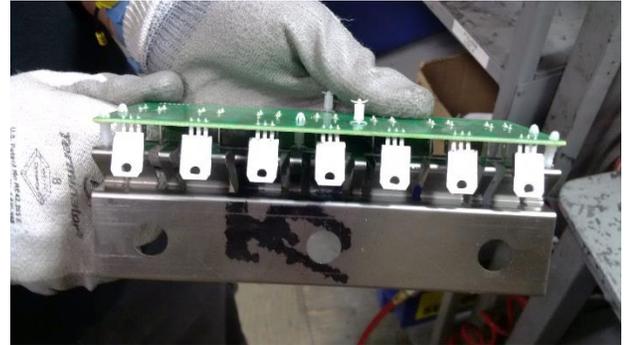
- 12- Clean up the tank in order to remove the residual heat paste



- 13- **Before proceeding to the next step, touch a grounded surface to eliminate any electrostatic charges you may hold**

- 14- Get the new power board assembly out of the packaging

- 15- Apply a fine layer of heat paste (supplied) on each of the 7 triacs



- 16- Place the assembly on the tank, the bolts in the middle of the holes



- 17- Install the nuts and apply a torque of 48in.lbf

- 18- Plug all the wires back onto the corresponding connectors. Each pair of connector should have one wire coming from the main terminal block and one going to the high limit relay (identified with color rings)

- 19- **Do not attempt to start the boiler prior to properly mounting the power board assembly to the tank. Doing so will irreversibly damage the modulating components as well as void the warranty**

20- For certain generations of appliances, it might be necessary to unfold the two tabs of the protection plate by 45°



there is no call for heat as well as the current when the unit is at 100%

21- Place back the power board protective cover, the control board mounting bracket and all the screws. Also reconnect all the wires disconnected in steps 3 and 7

22- Turn the power back on

23- Make sure the boiler is functioning properly by checking the current drawn by the unit when