

UWI 150TP



Make sure that the machine is disconnected from the main line before removing the cover.



According to the diagnosis of fault as per Troubleshooting Manual, to replace the necessary components accordingly or replace all.

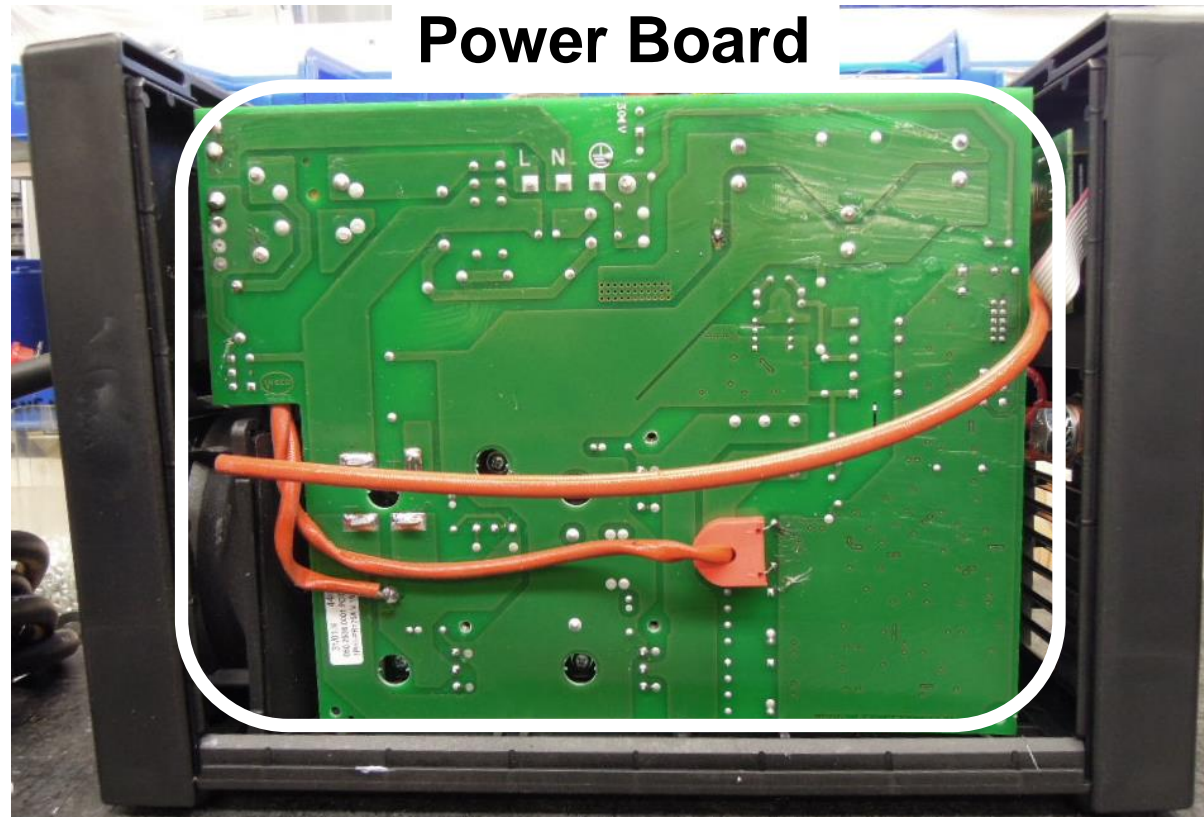
Steps section:

- Section 1: Steps for Replacing Power Board.
- Section 2: Step for Replacing Diode Isotope.

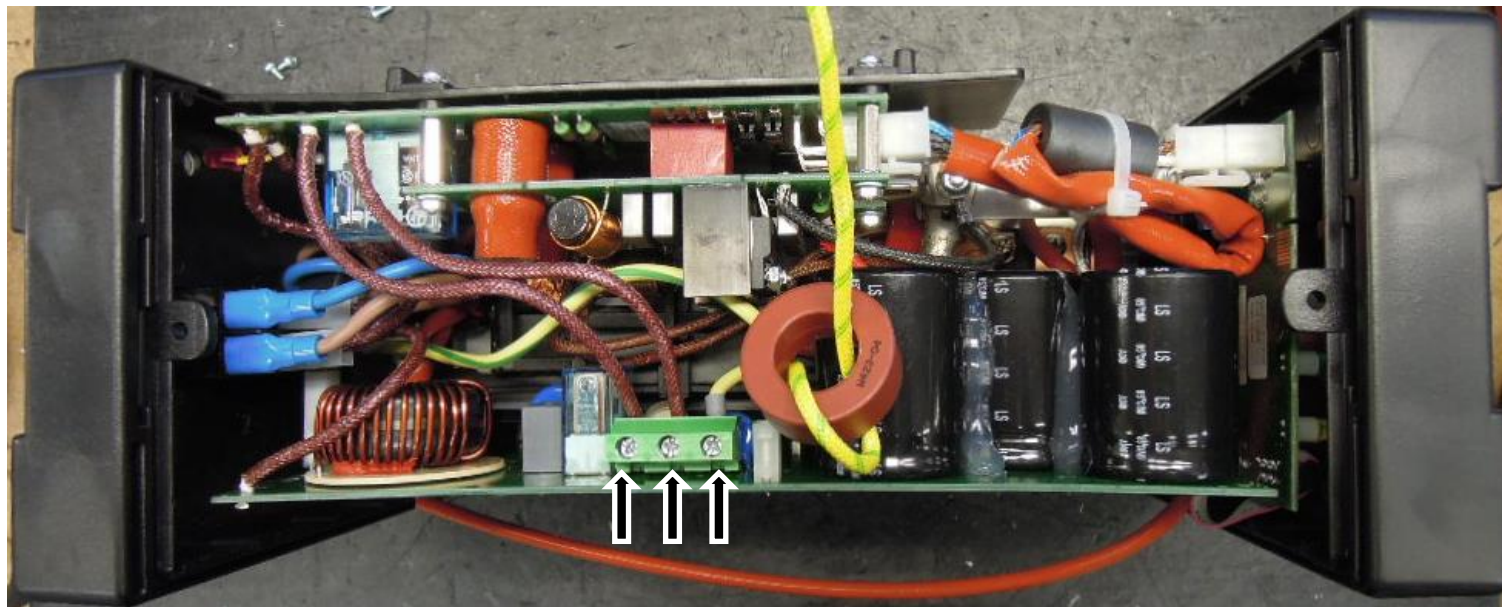
Section 1: Steps for Replacing Power Board.

- **Step 1: Remove the cover (2 Philips screws).**

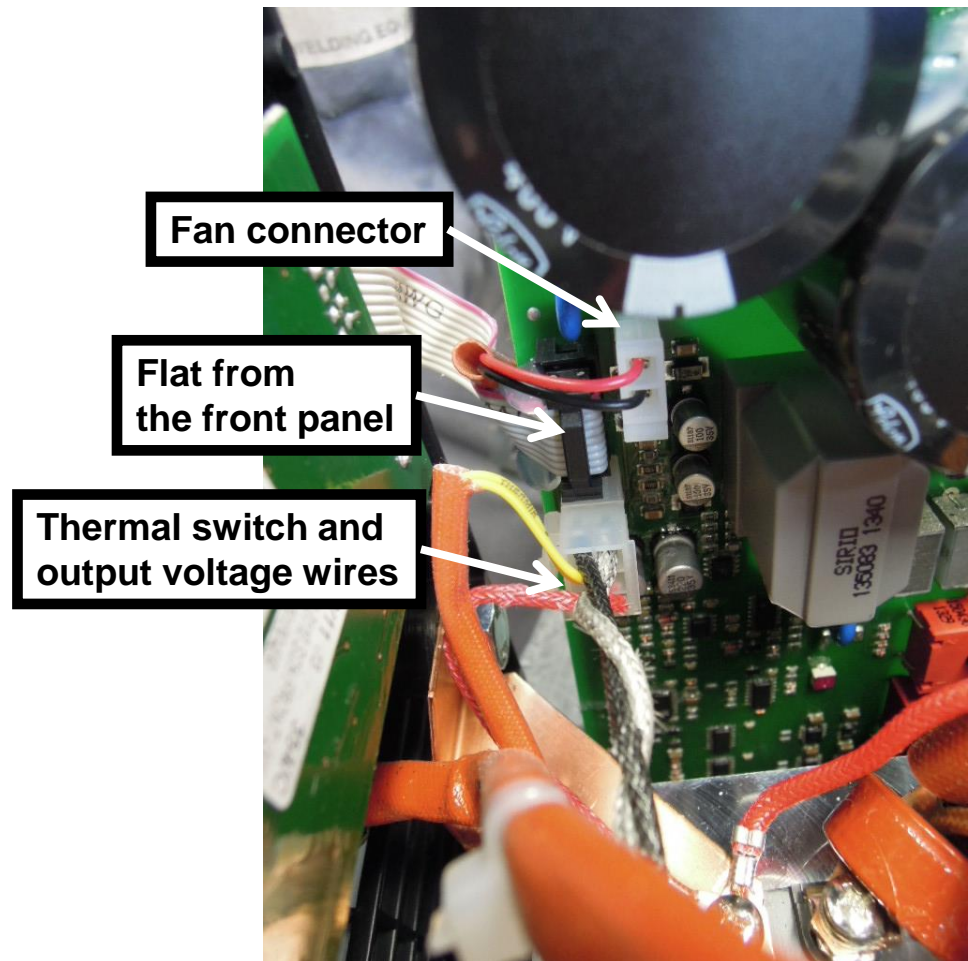




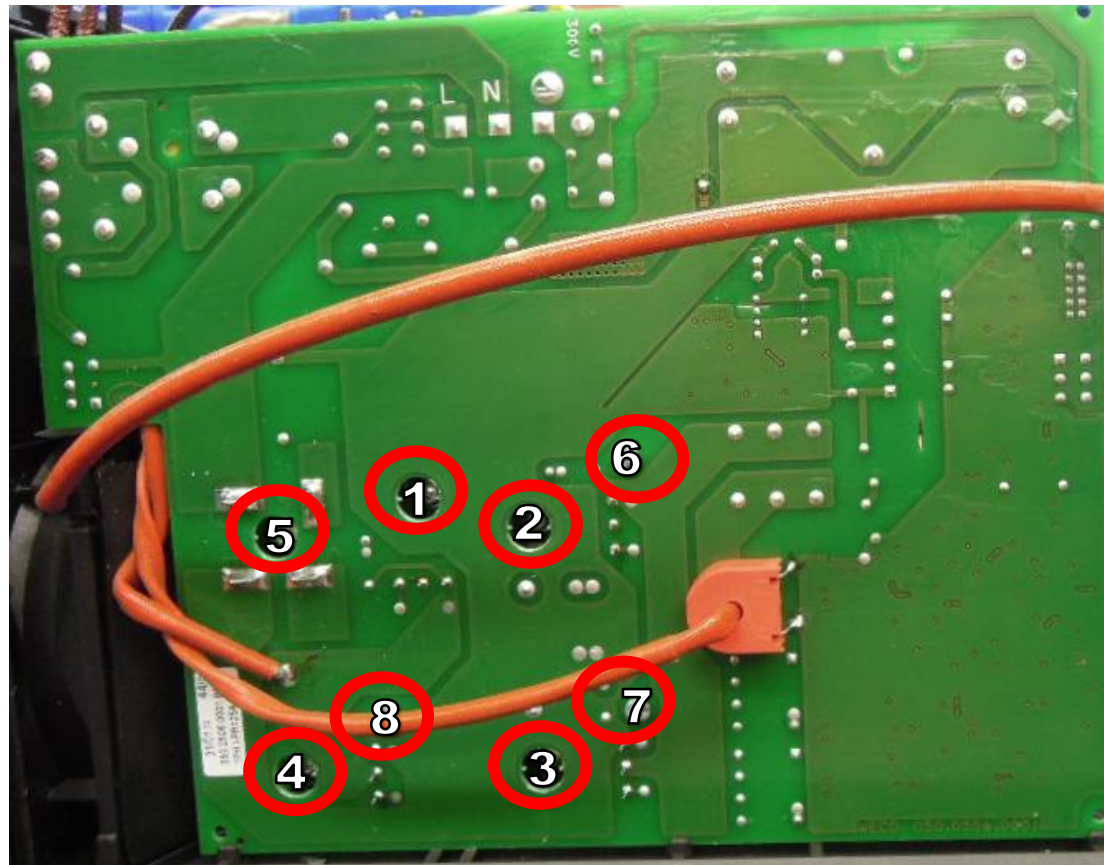
- **Step 2: Disconnect the wires from the terminal block.**



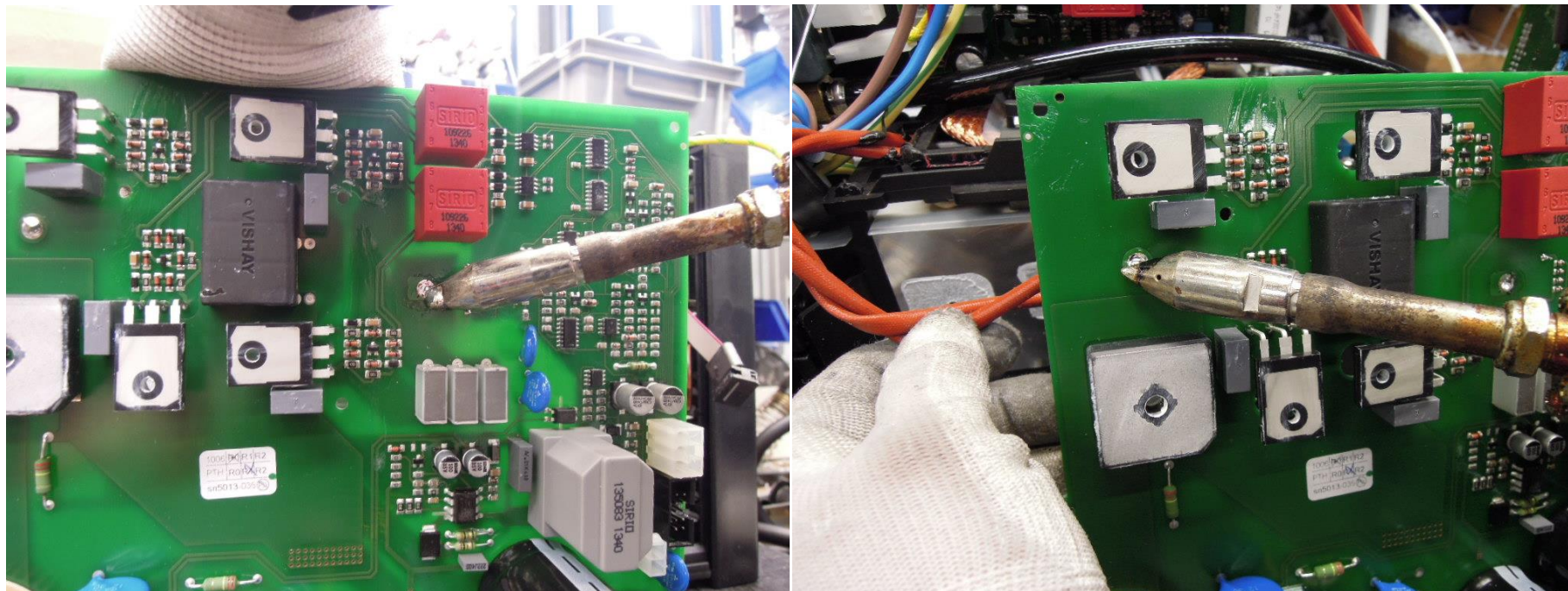
- **Step 3: Remove the connectors from the Power Board.**



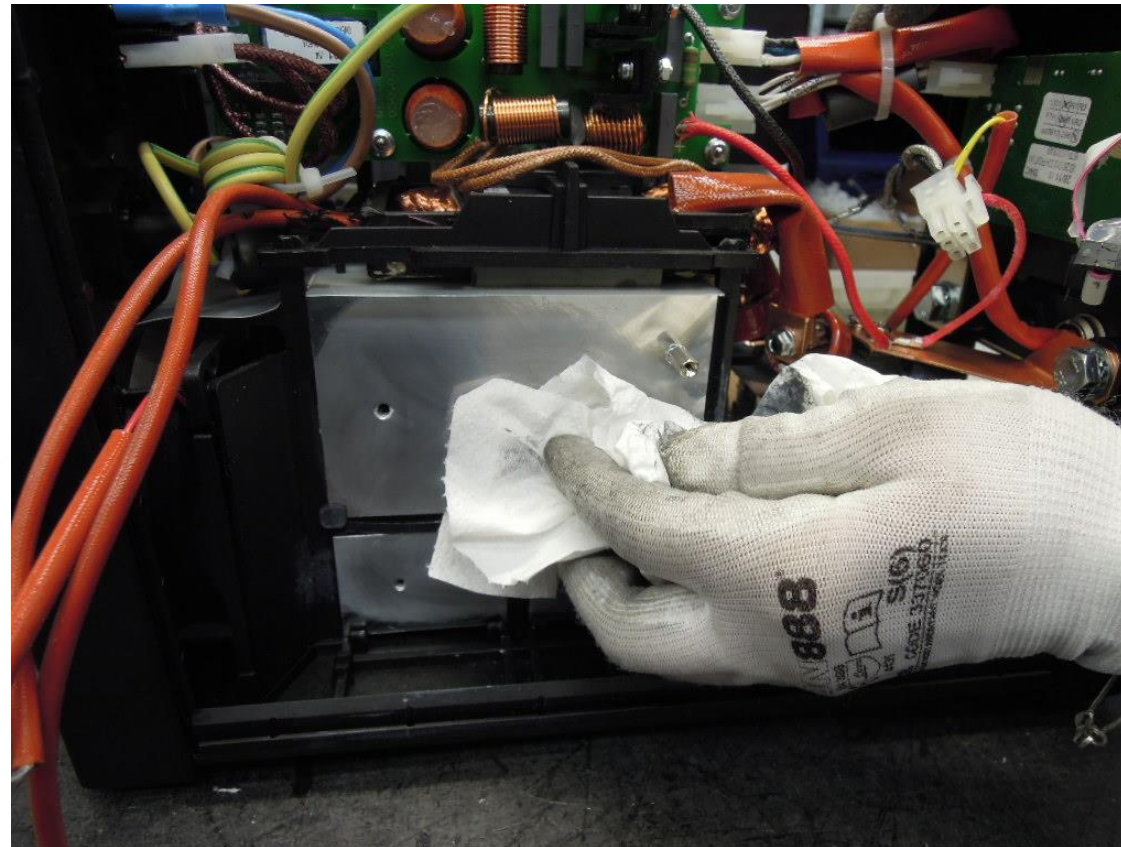
- **Step 4: Remove the screws from the Power Board in the sequence indicated.**



- **Step 5: Remove the primary wires of the power transformer.**

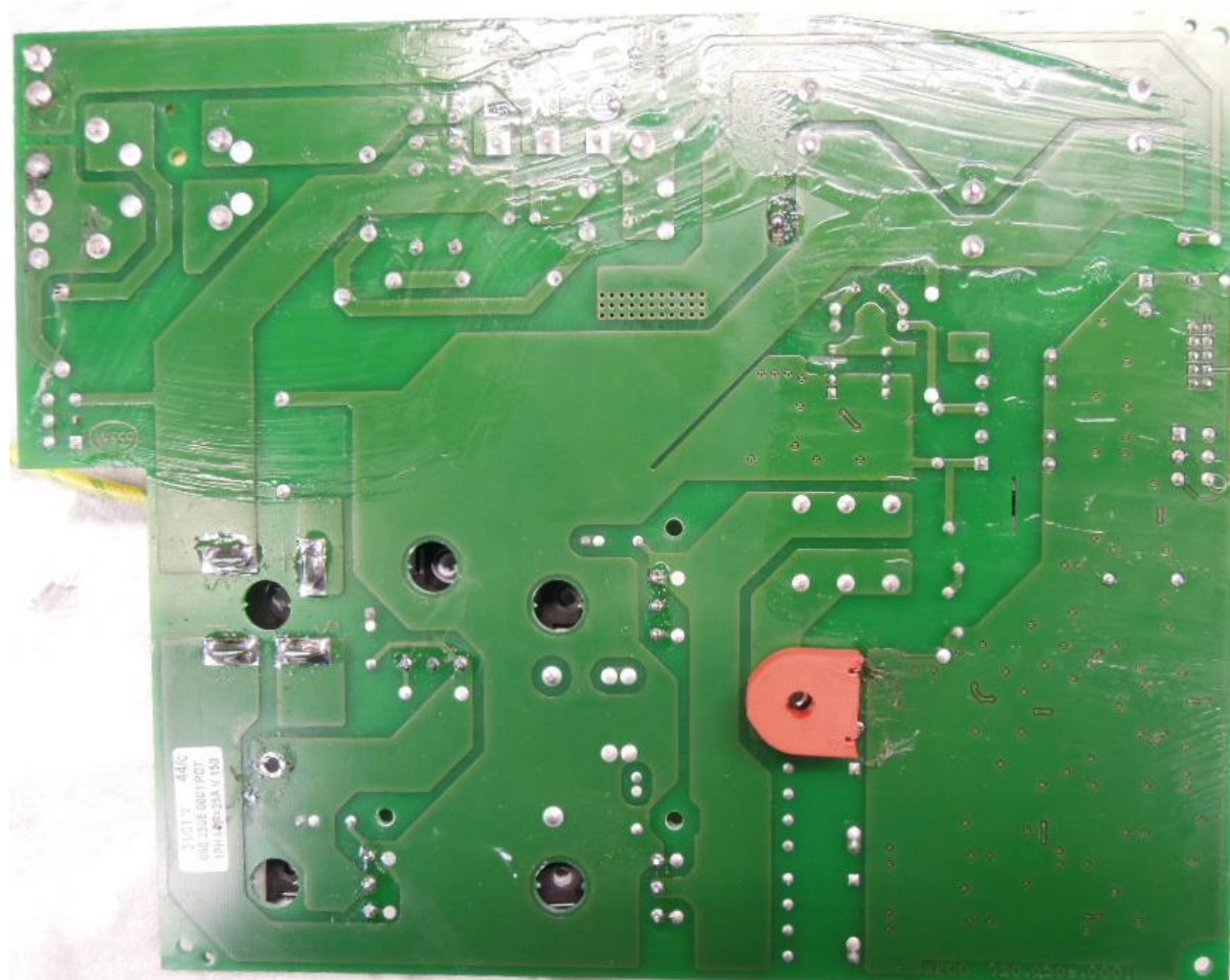


- **Step 6: Clean the heatsink with alcohol.**



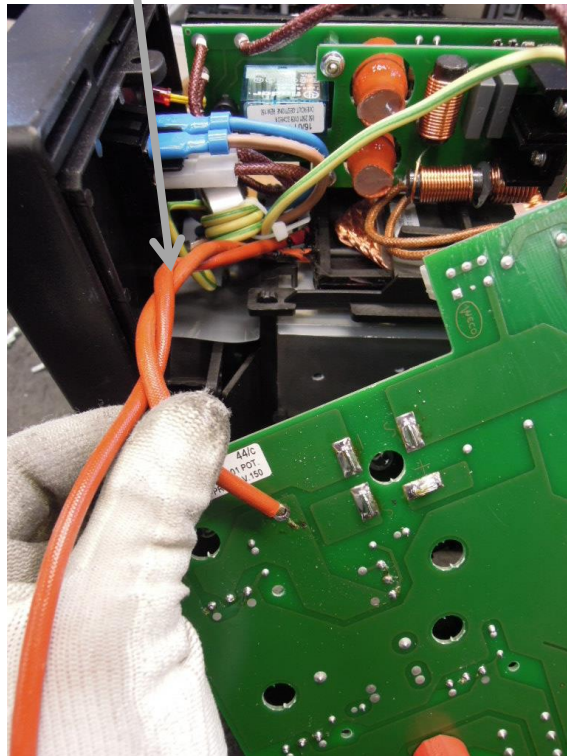
- **Now, you are ready for connecting the new Power Board.**

- **Step 7: Take a new power board.**

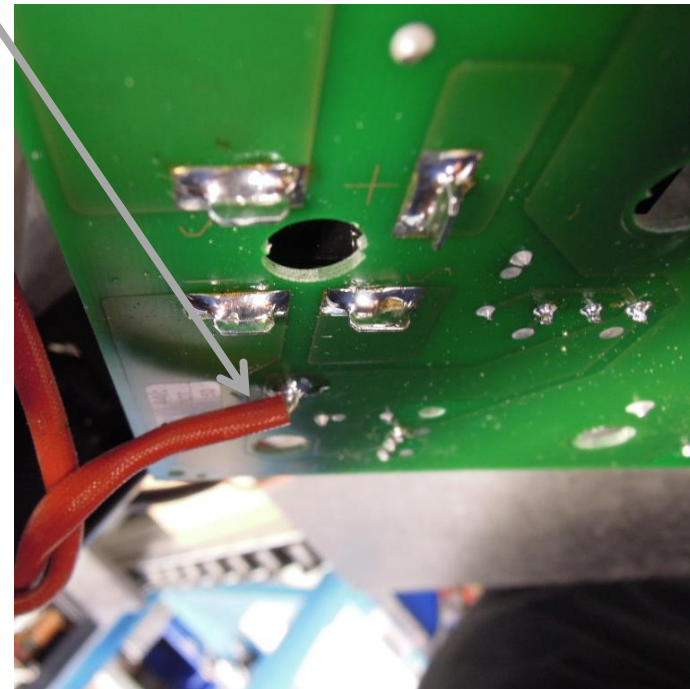


- **Step 8.1: Fix the primary wires of the power transformer.**

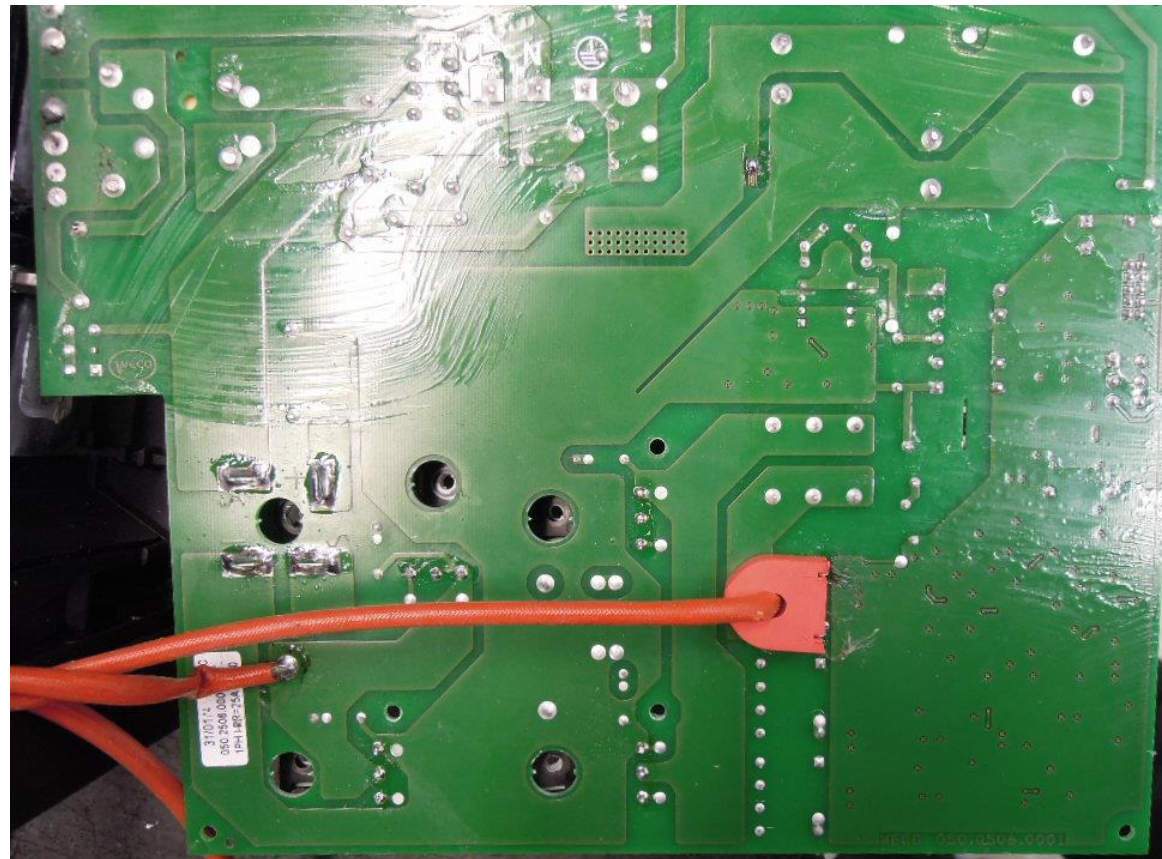
Twist the wires



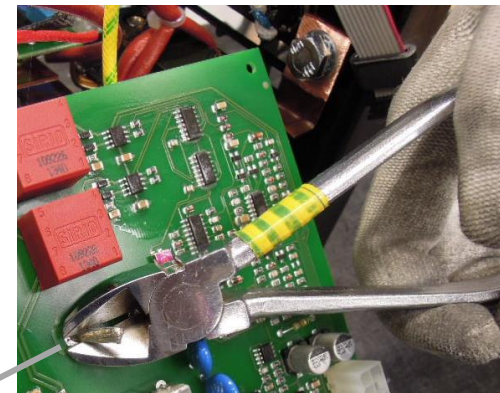
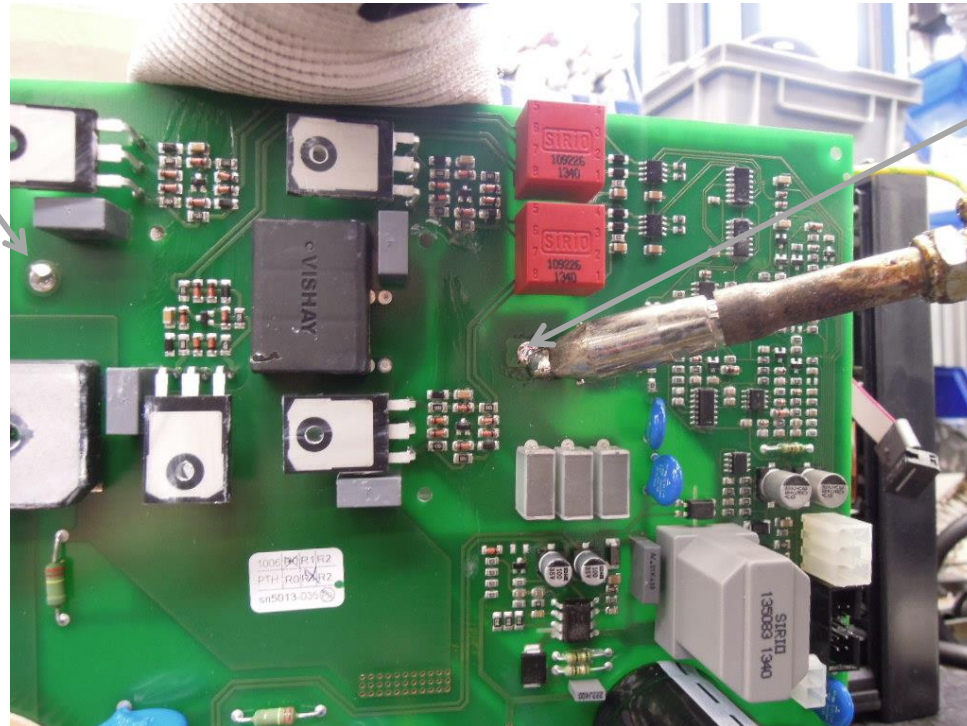
Keep up the wire (it must not be close the power board)



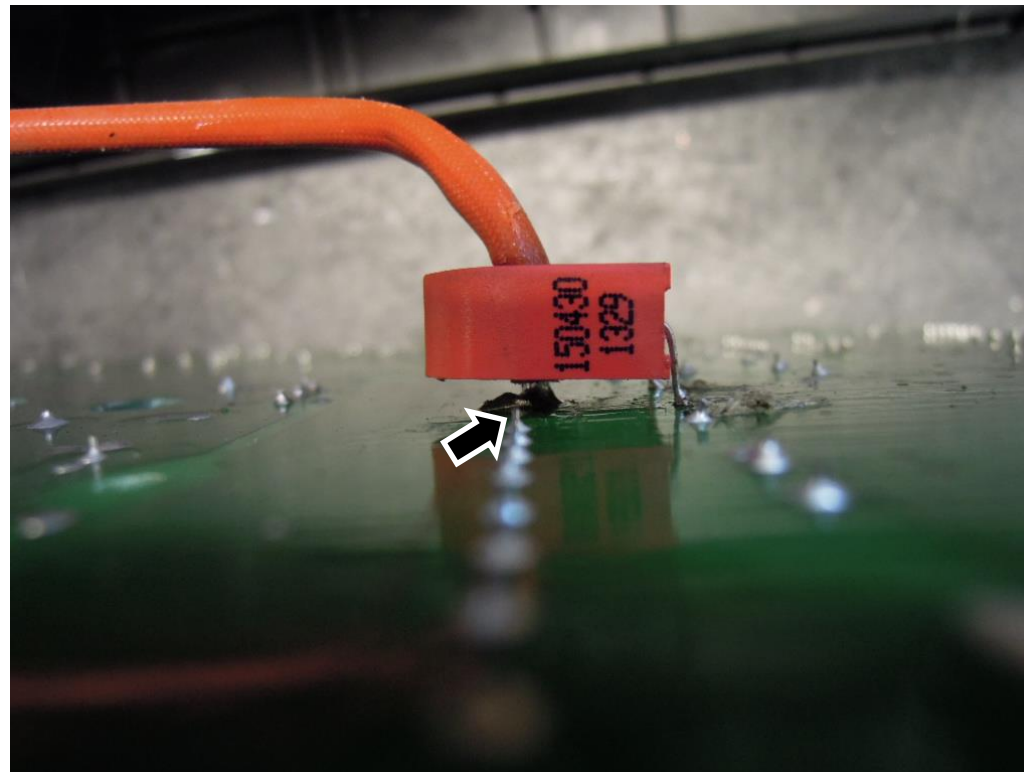
- **Step 8.2: Fix the primary wires of the power transformer.**



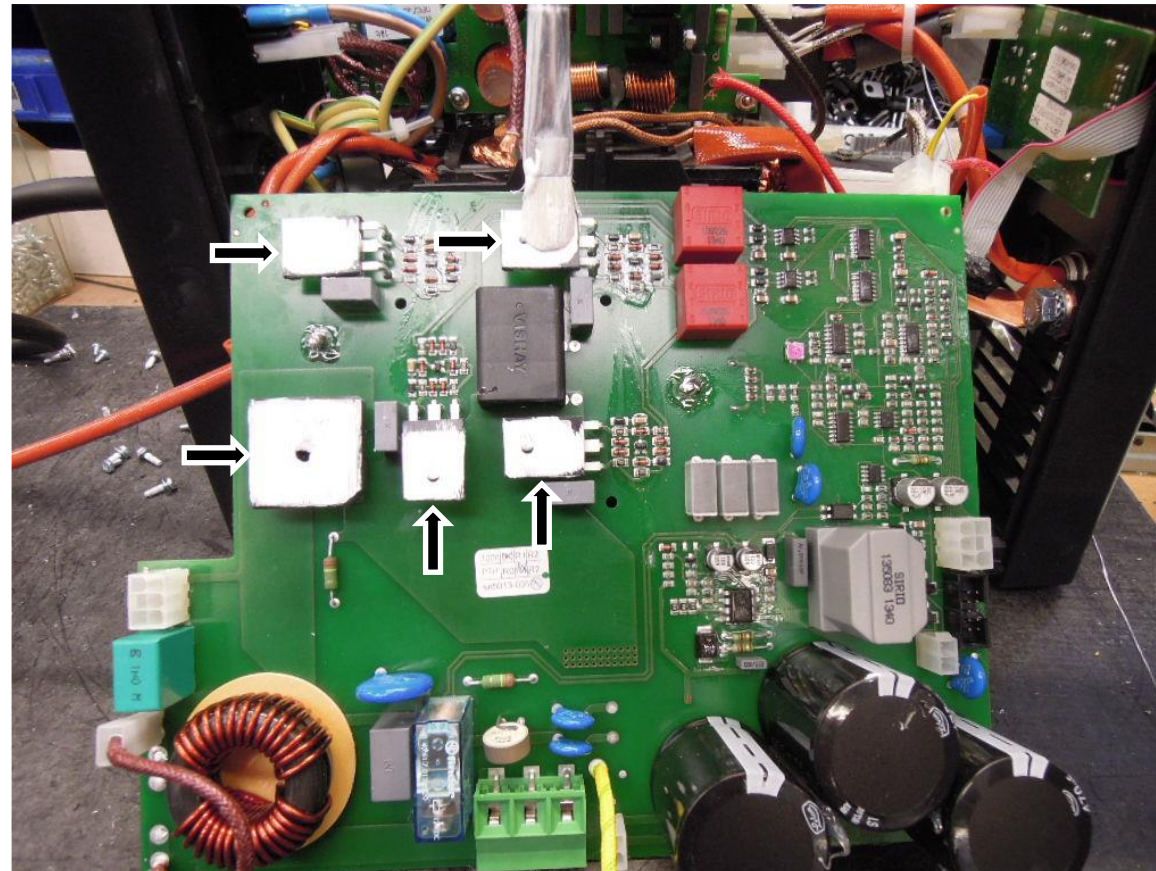
- **Step 8.3: Fix the primary wires of the power transformer and cut the wire in excess.**



- **Step 8.4: The solder must enter in the hole and goes out to the other side.**

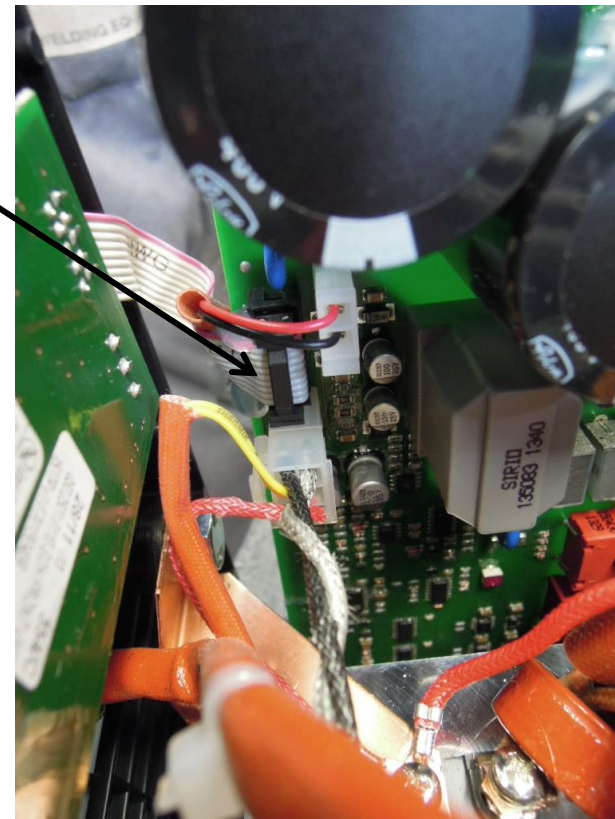


- **Step 9: Put the thermal grease** (the grease must be fluid neat like a cream and a thiny film; we suggest to use a sponge roller for painting or a paintbrush; it possible to add a very little quantity of diesel fuel to soften up the grease).

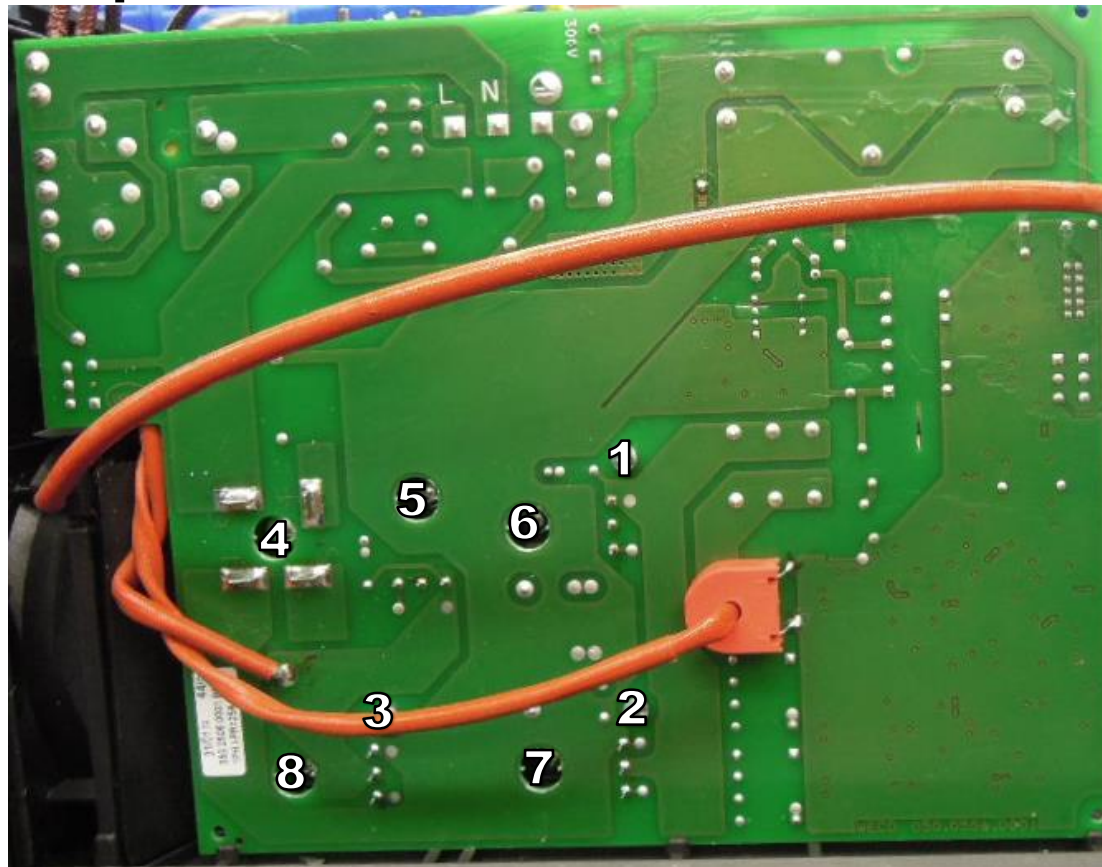


- **Step 10: With the Power Board in this position, connect the the connectors in the correct position.**

**Block the Flat of front panel with
silicone or hot glue**

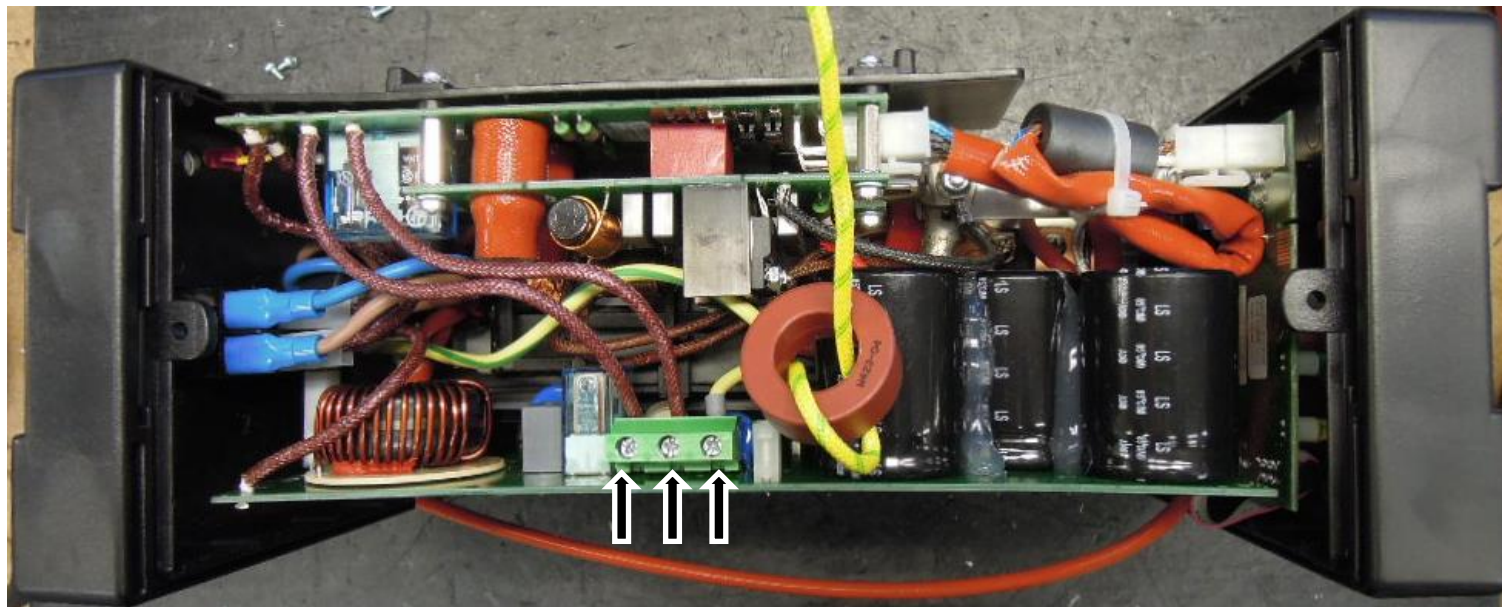


- **Step 11: Fix the Power Board to the heatsink in the sequence indicated.**



4 5 6 7 8 1 2 3

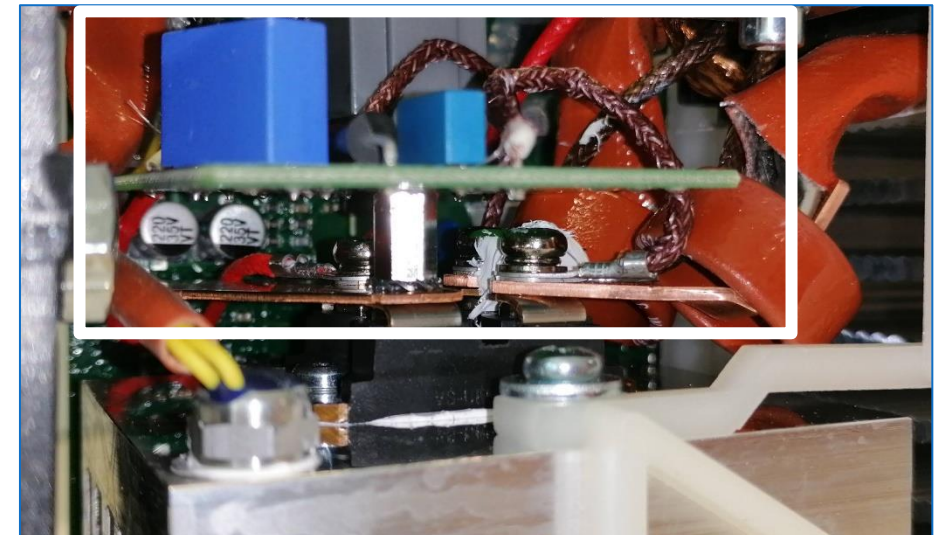
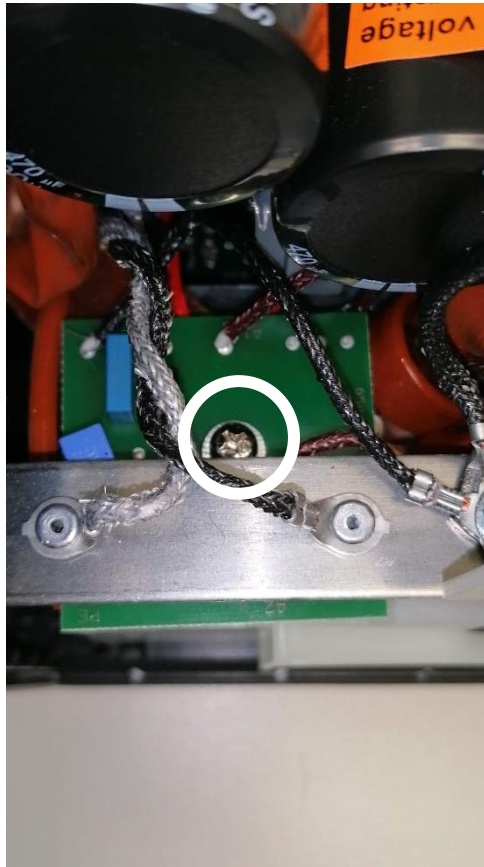
- **Step 12: Connect the wires to the terminal block.**



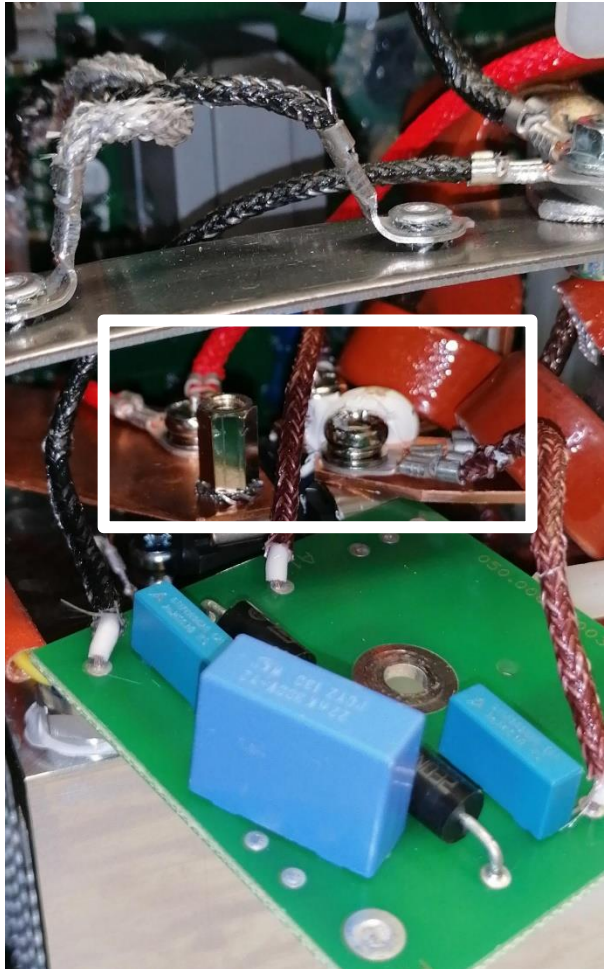
If the repair is finished, jump to step 20th.

Section 2: Step for Replacing Diode Isotope.

- **Step 13.1: Disconnect the snubber board**
Remove the central screw of the board



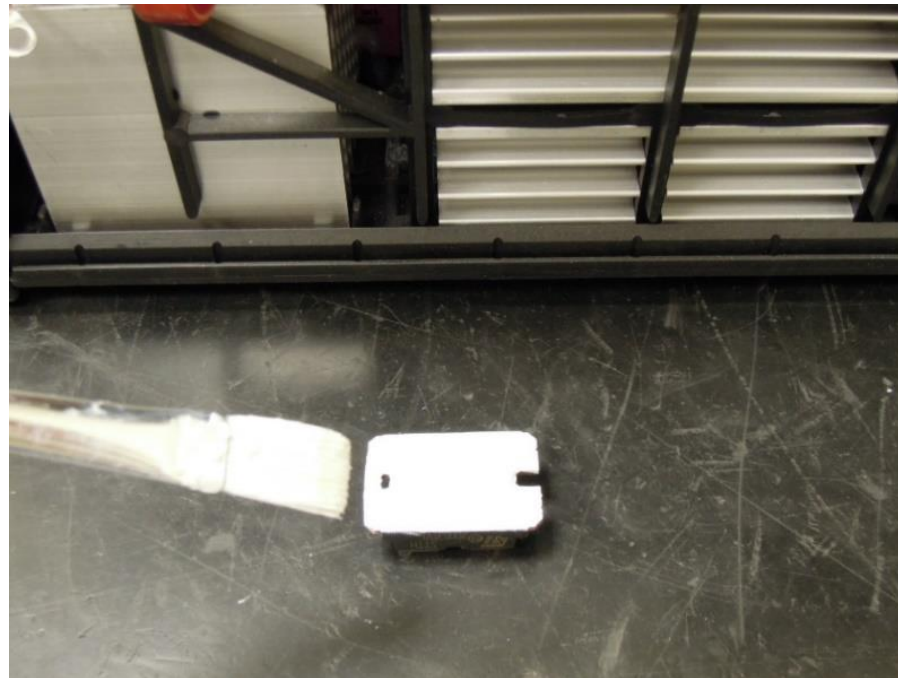
- **Step 13.2: Disconnect the snubber board**
Remove all screws and the spacer from the Isotop diode



- **Step 14: Remove the Diode.**

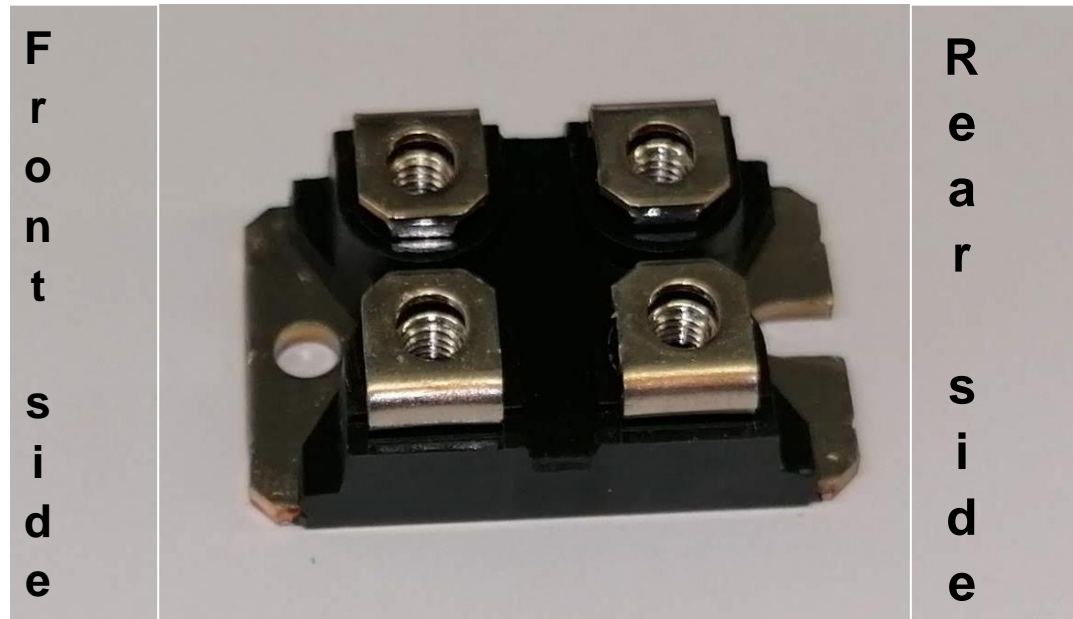
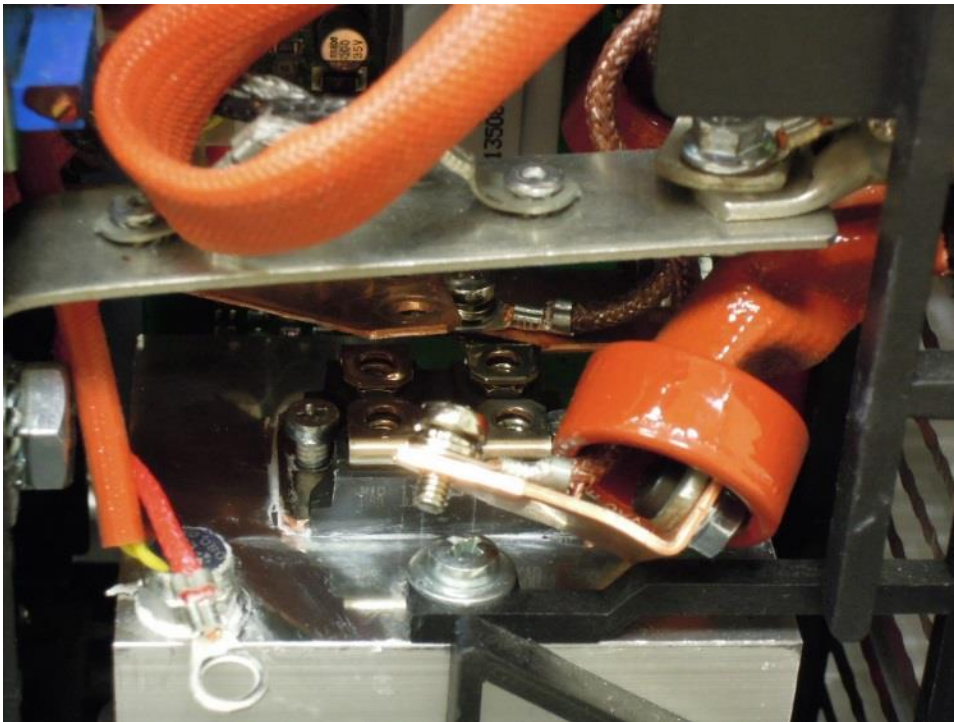


- **Step 15: Clean the heatsink with alcohol.**
- **Step 16: Put the thermal grease (the grease must be fluid neat like a cream and a thiny film; we suggest to use a sponge roller for painting or a paintbrush; it possible to add a very little quantity of diesel fuel to soften up the grease).**

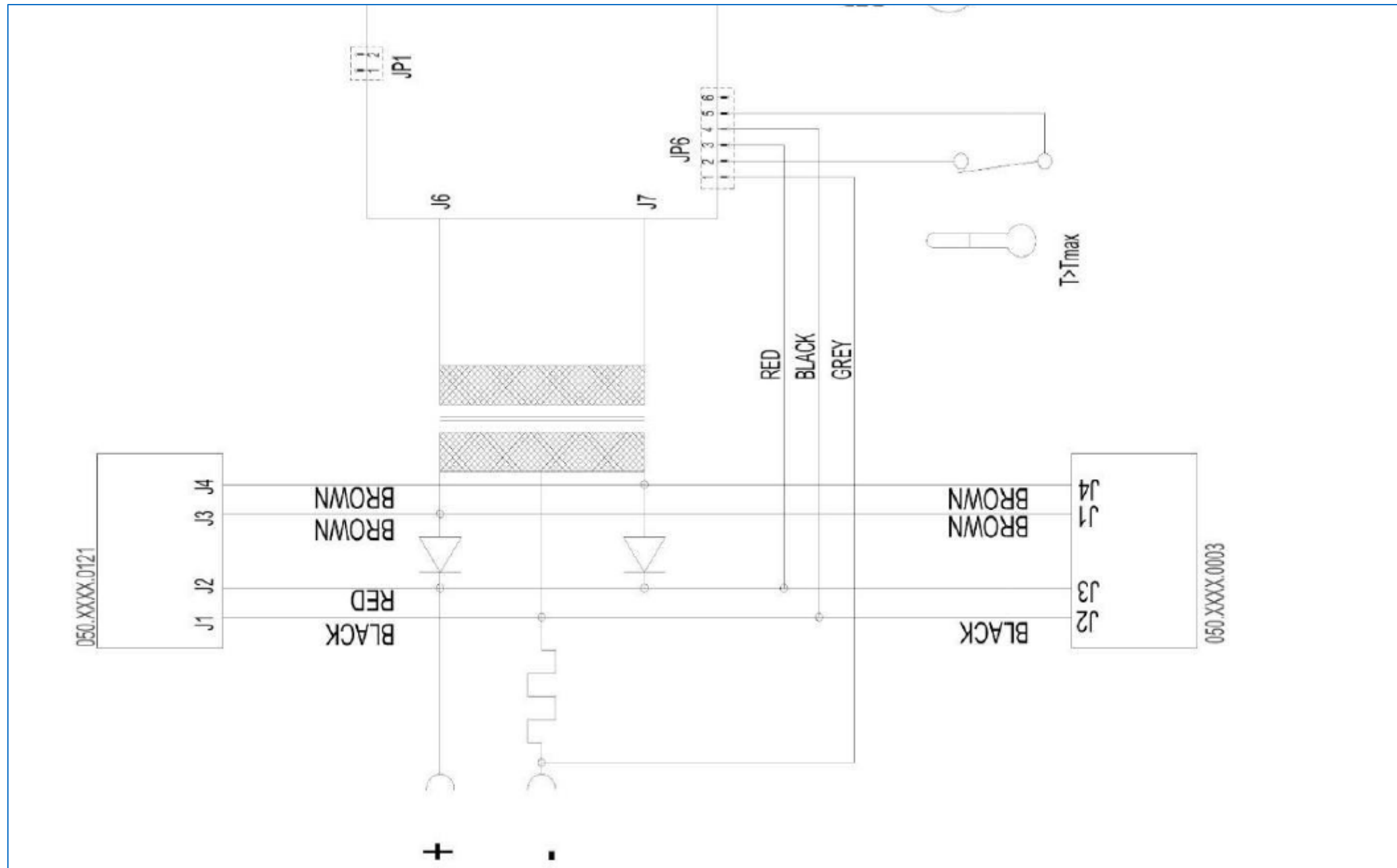


- **After this you are ready for putting in the new Diode.**

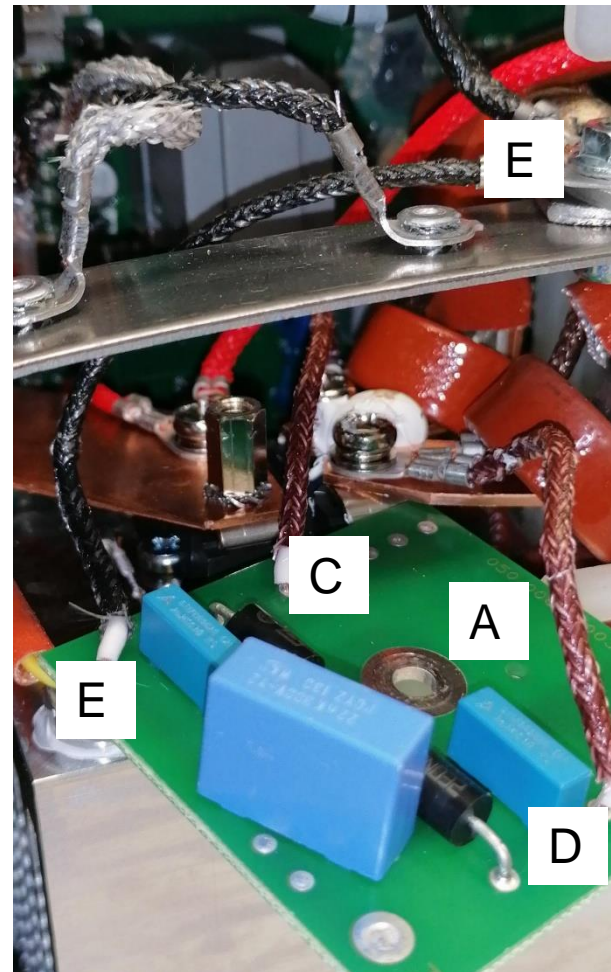
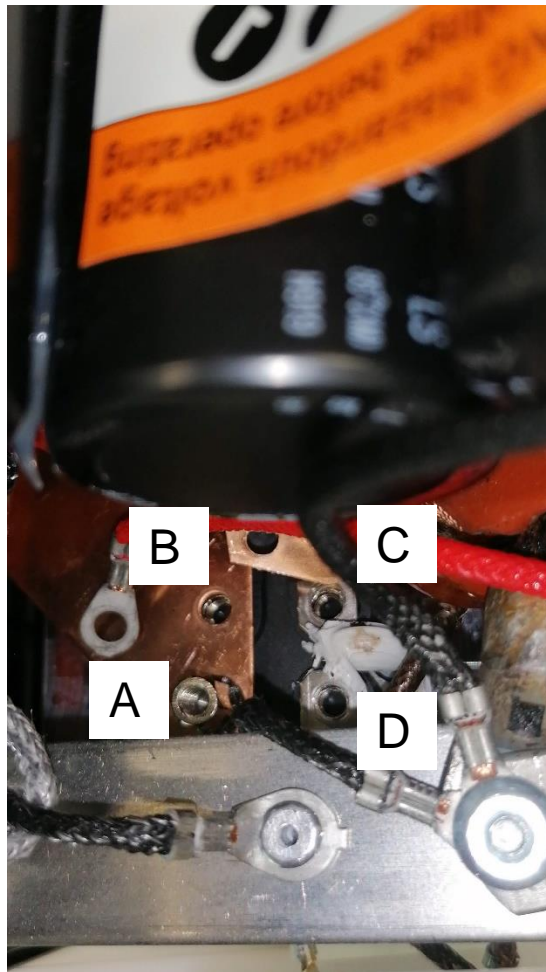
- **Step 17: Fix the Diode**



- **Step 18.1: Fix the Snubber Board to the Isotope Diode**
Electrical drawing for connecting the snubber board to the Isotope Diode

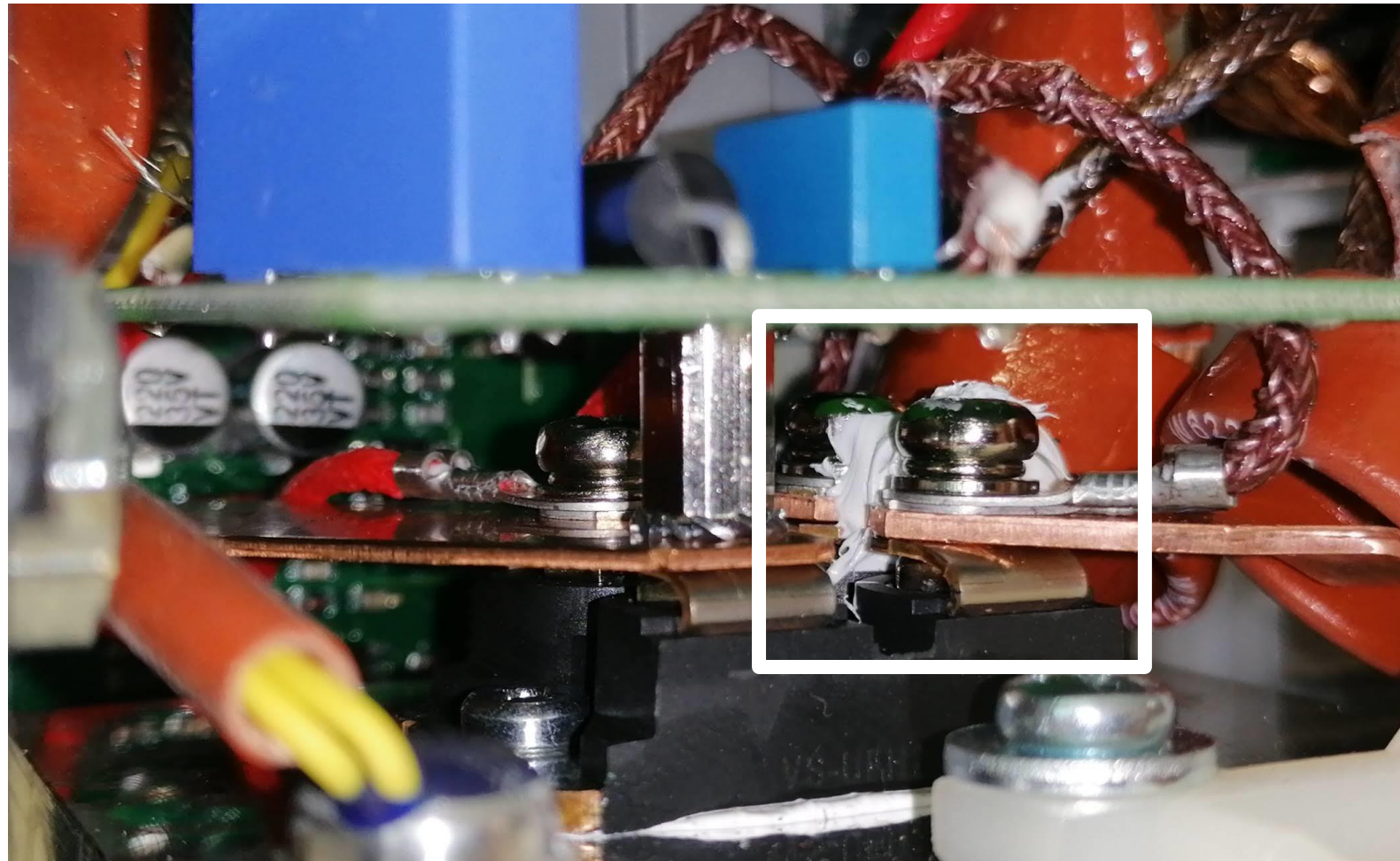


- **Step 18.2: Fix the wires from the Diode**



- Connect the PCB to the spacer (A).
- Connect the brown wire (C) to the (C)position of the diode .
In the position (C) there are one more BROWN wiring from the .050.xxxx.0121 board.
- Connect the brown wire (D) to the (D)position of the diode .
In the position (C) there are one more BROWN wiring from the .050.xxxx.0121 board.
- Connect the BLACK wiring (E) from the PCB to the SHUNT (E)
- On the position (B) of the diode, connect the two RED wiring.

- **Step 19: Put se silicone between the screws of the diode**



If the repair is finished, jump to step 20th.

- **Step 20: Test the machine!**
Weld an electrode with 70 A and 110 A current.



Attention

Please use these Unitor products exclusively for the purpose indicated by WSS and only if the operator fully understands current practices and procedures. If any further information or assistance is required please contact your local WSS specialist.

