



# ST/STR: 1kV, 2kV, 3kV, 4kV Polarity Reversal Procedure

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**WARNING**

**THIS EQUIPMENT GENERATES DANGEROUS  
VOLTAGES THAT MAY BE FATAL!**

**WARNING**

**DO NOT OPEN OR TOUCH ANYTHING INSIDE THE POWER SUPPLY UNTIL:**

- A) LINE INPUT POWER SOURCE IS REMOVED**
- B) SET REAR PANEL CIRCUIT BREAKER TO "OFF" POSITION**
- C) DISCHARGE INTERNAL HV CAPACITANCE BY SHORTING OUTPUT TO GROUND**
- D) WAIT 5 MINUTES TO ALLOW RESIDUAL CHARGE IN AC INPUT CAPACITANCE TO DISCHARGE**

**PROCEED WITH CAUTION AND SHORT ALL POINTS TO GROUND BEFORE MAKING PHYSICAL CONTACT.**

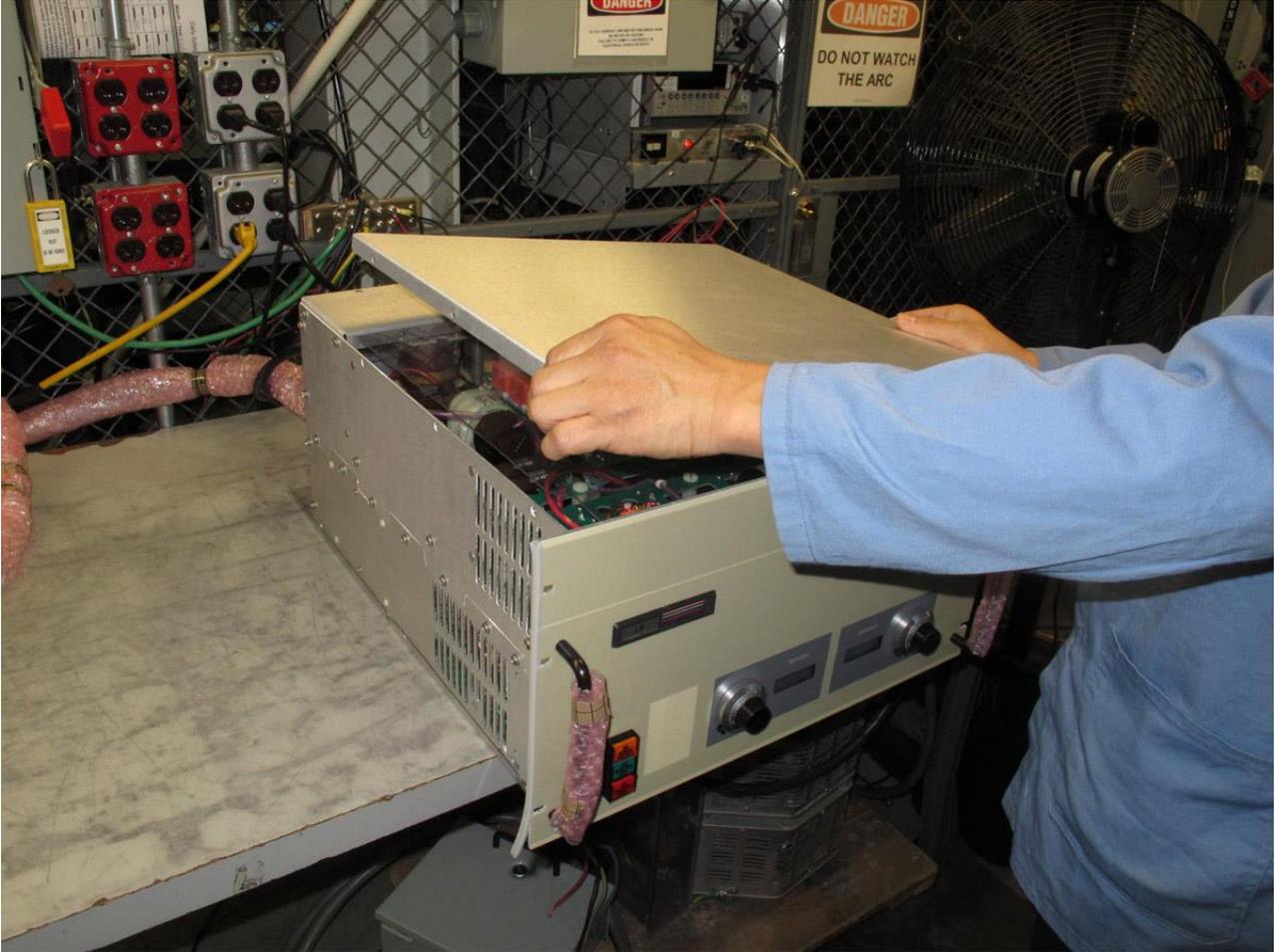
**Differences between the number of components on the 1kV,  
2kV, 3kV and 4kV HV boards may exist, but the basic  
method to change polarity remains the same.**



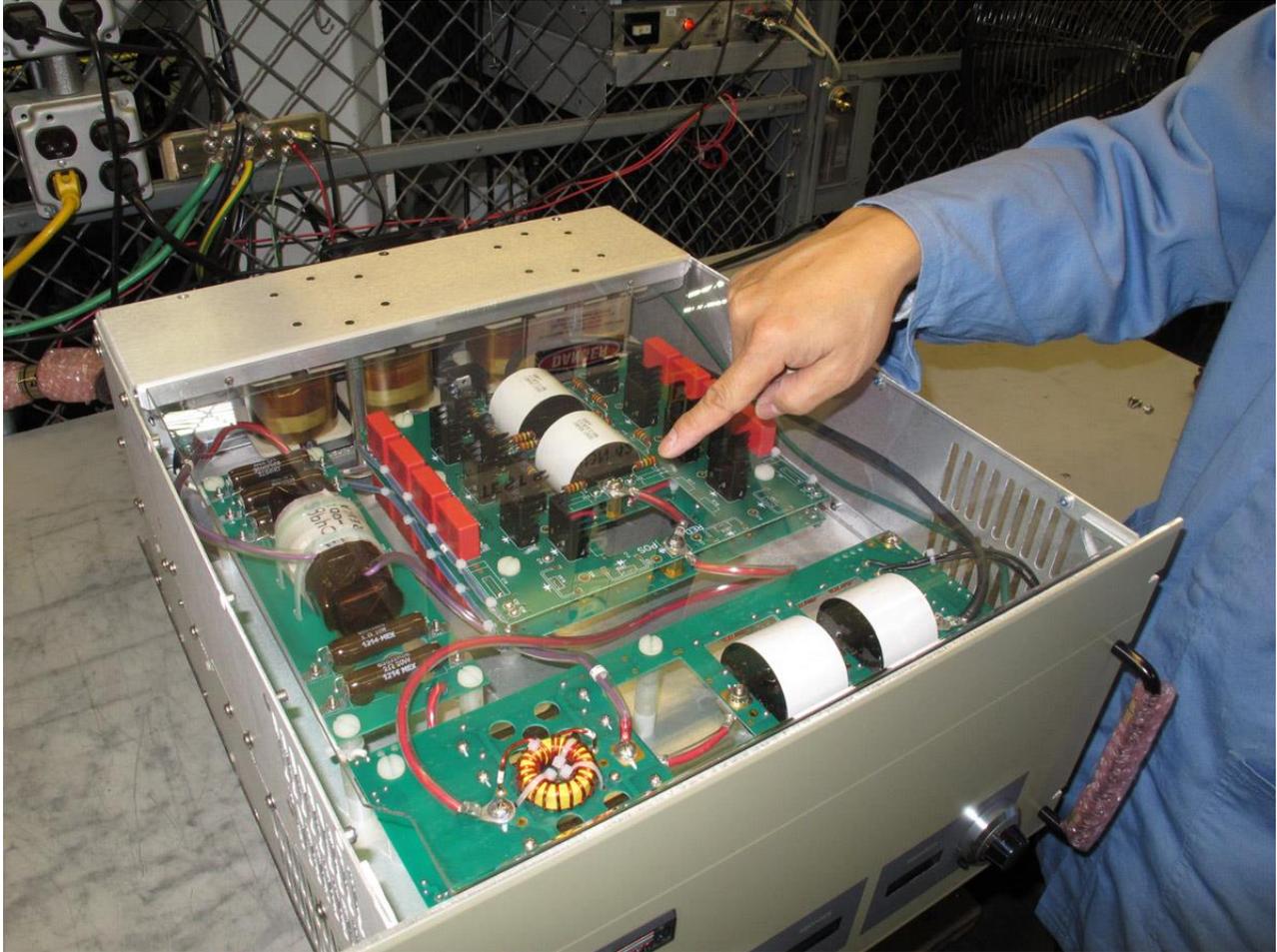
Place unit upside down.



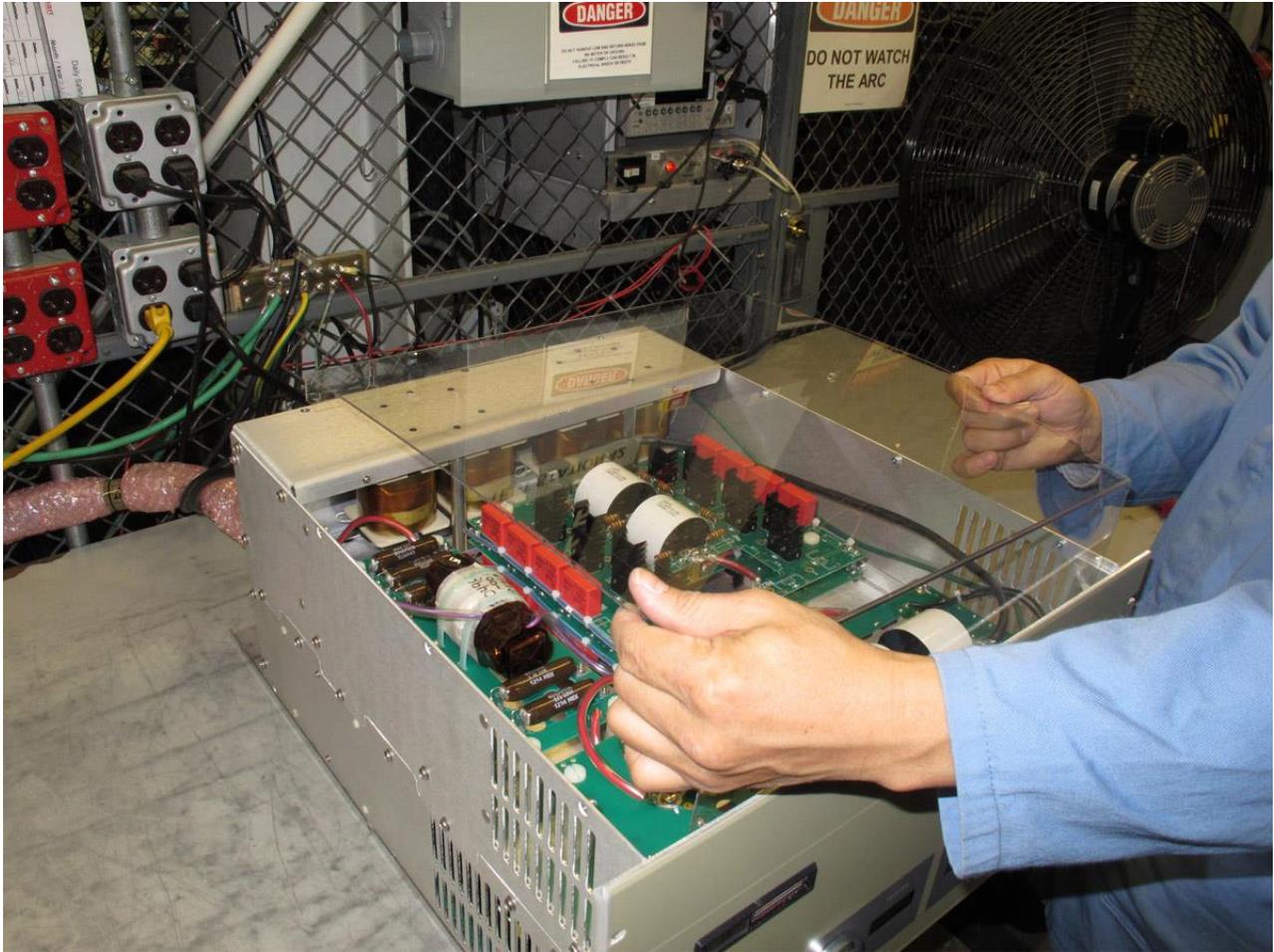
Remove bottom cover screws.



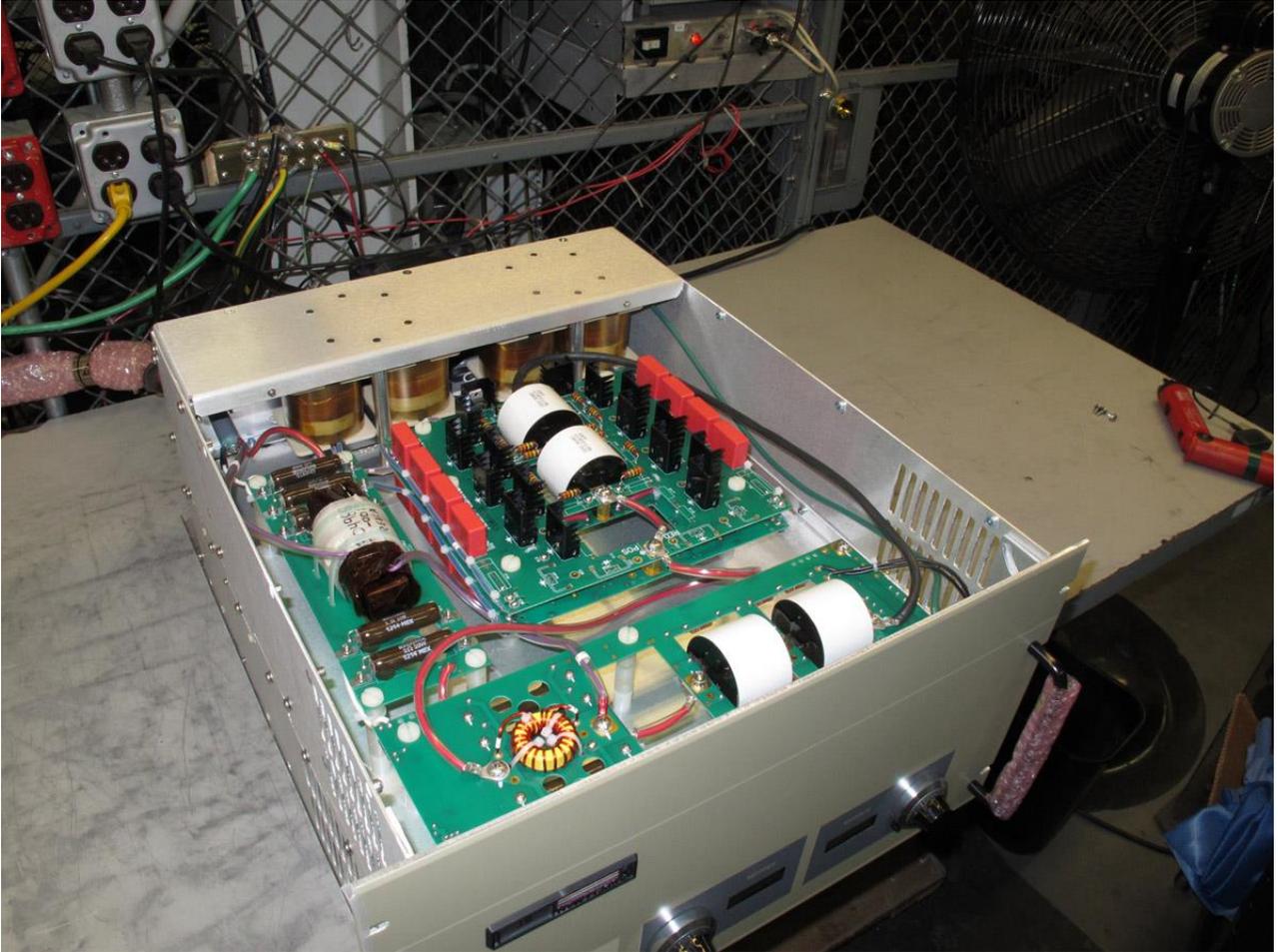
Remove bottom cover.



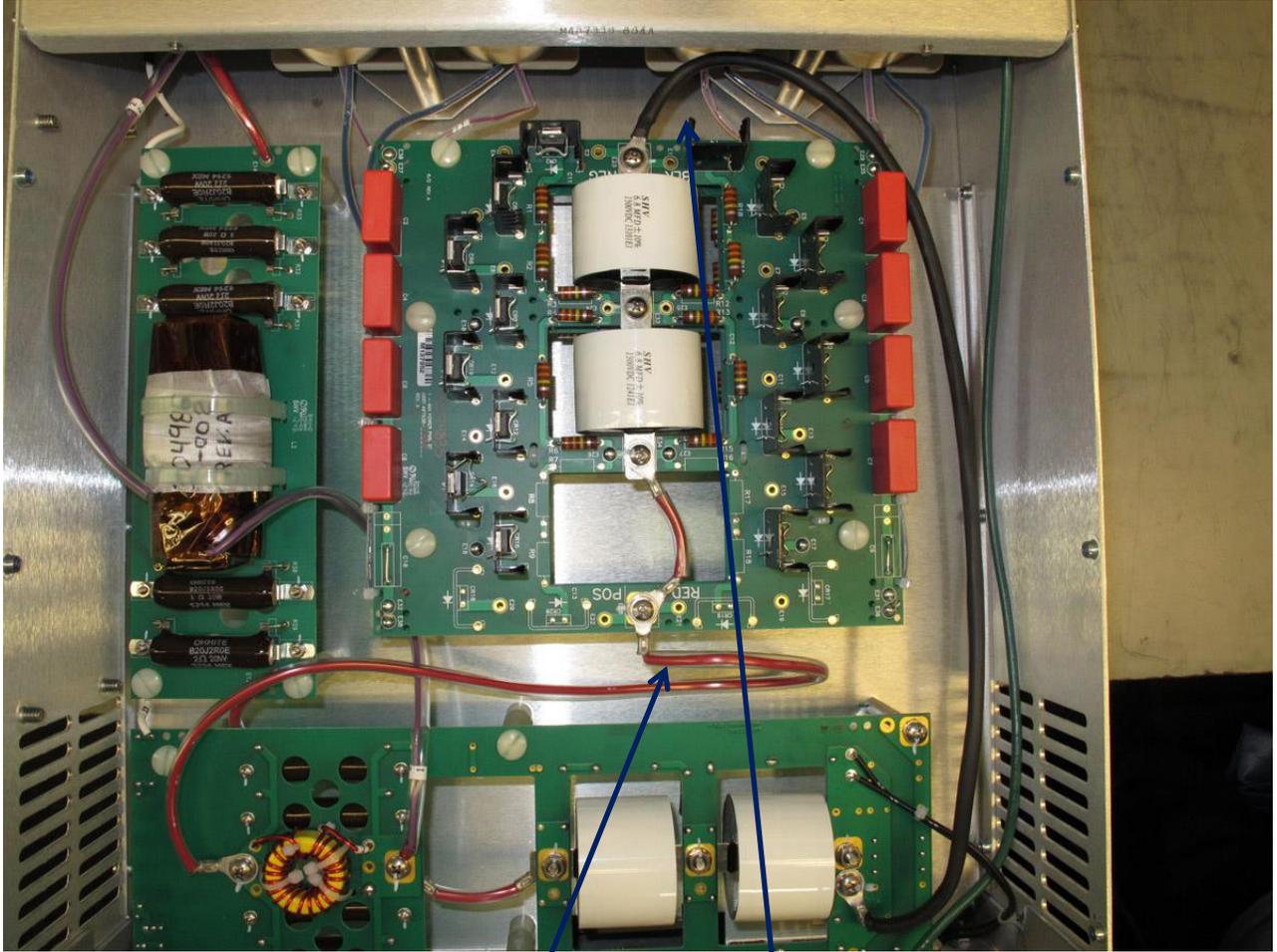
Lexan Safety Shield.



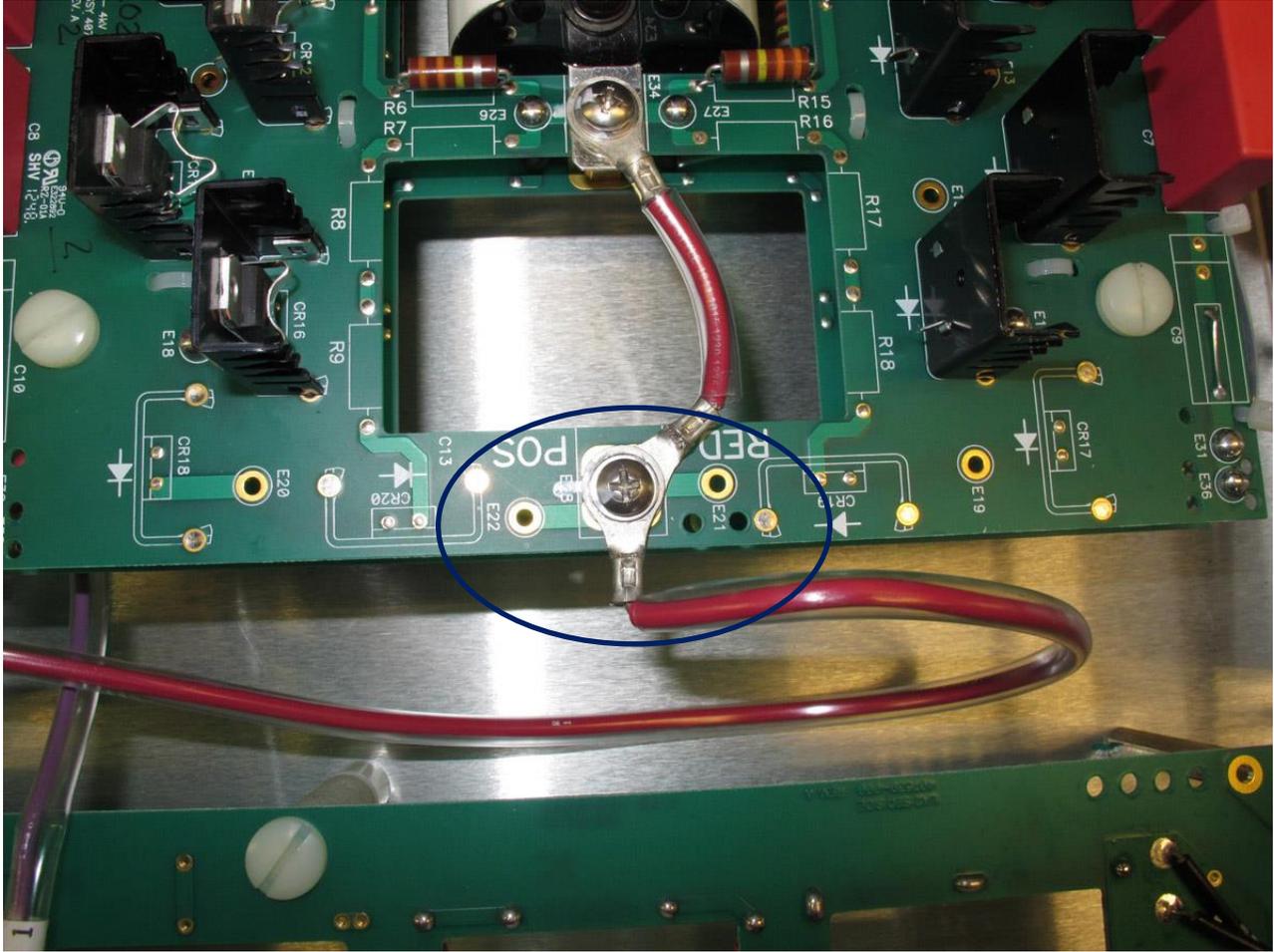
Remove Lexan Safety Shield.



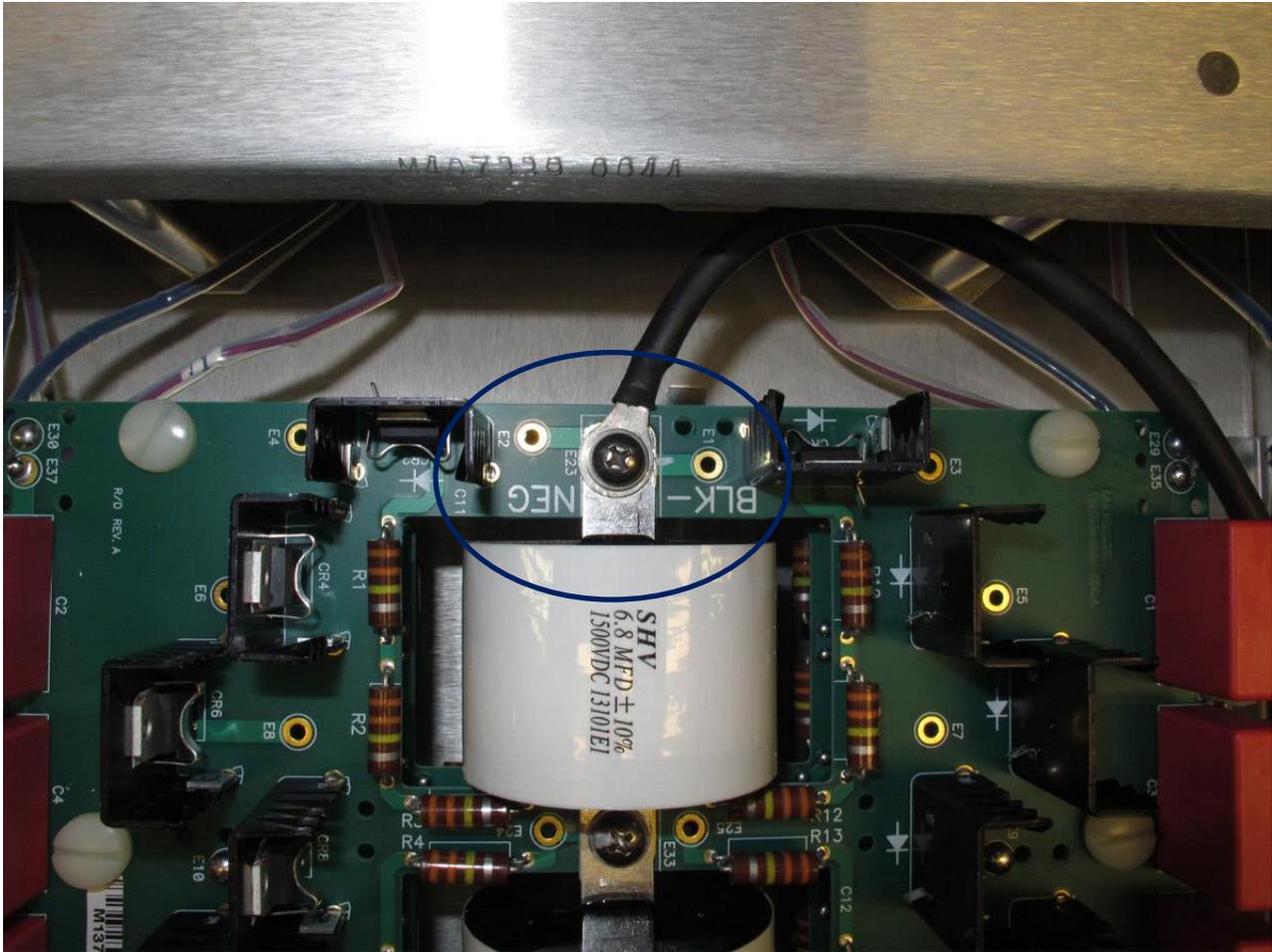
Open access to HV section.



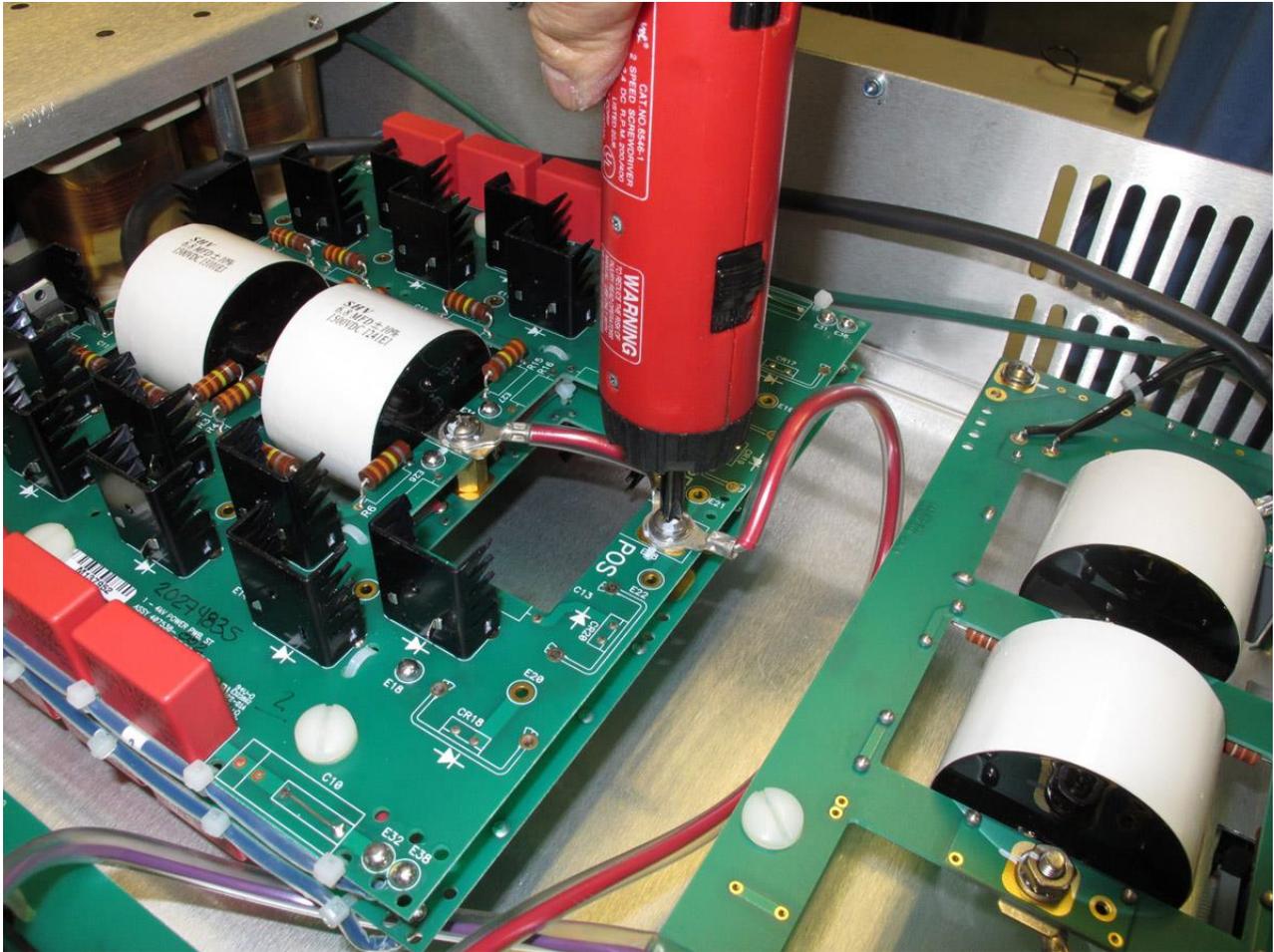
Observe red and black wiring.



Red wire on “POS” = Positive Output.

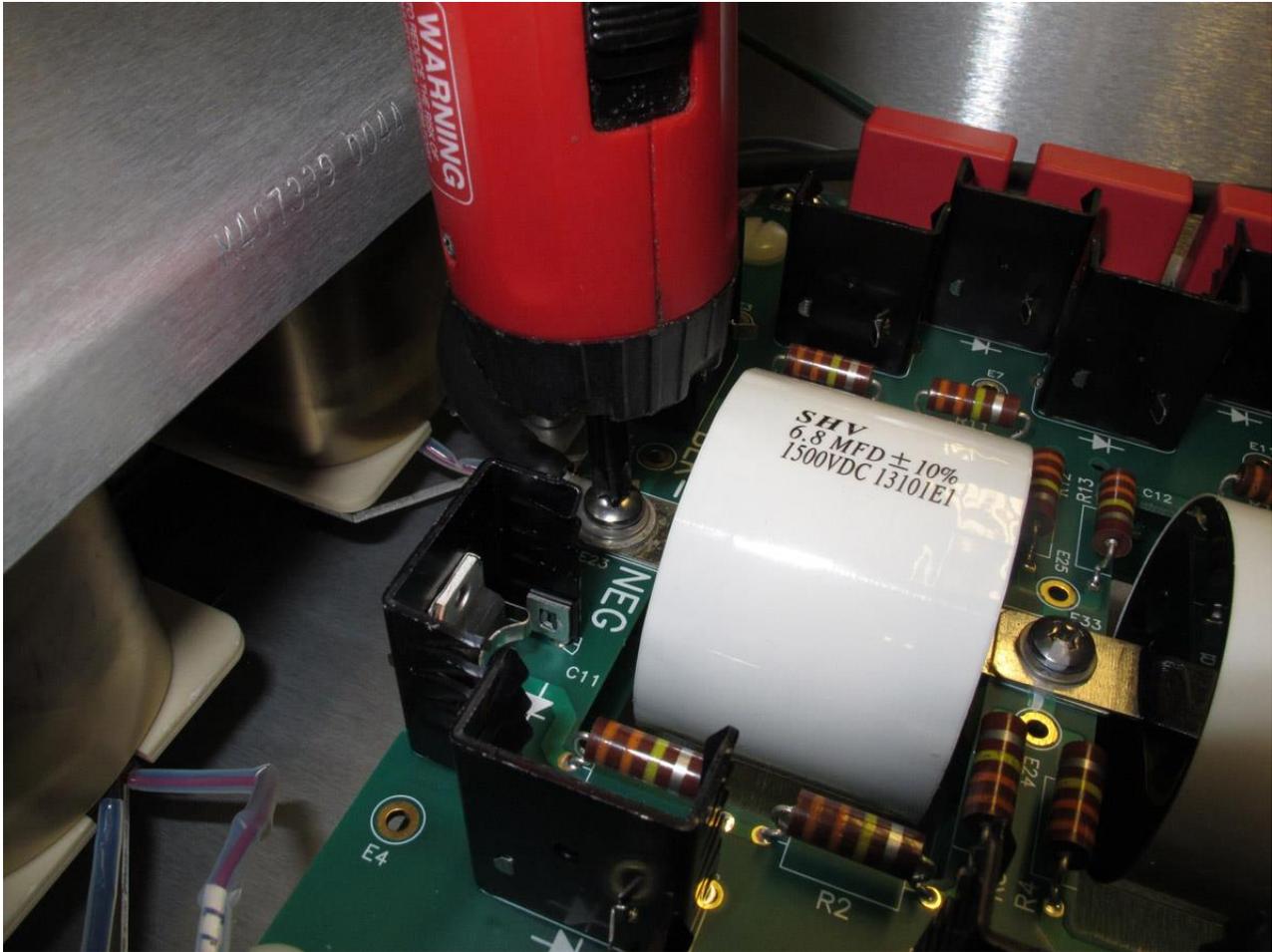


Black wire on “NEG” = Positive Output.  
To change polarity swap the red and black wires.



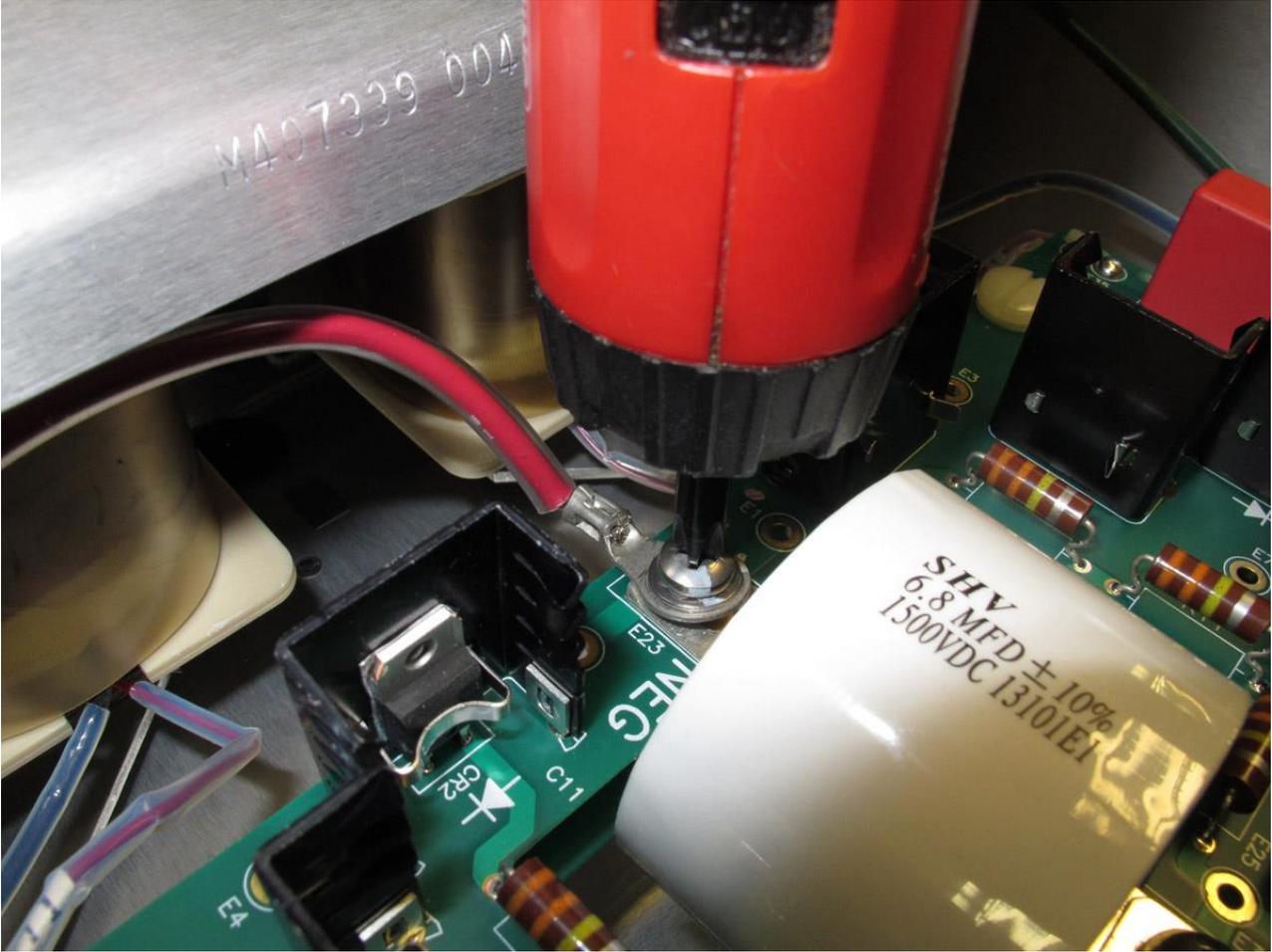
Remove red wire.

**Note: When removing hardware carefully observe how it assembles and disassembles. Some units may NOT have captive mating hardware requiring the capture and relocation of mating hardware.**

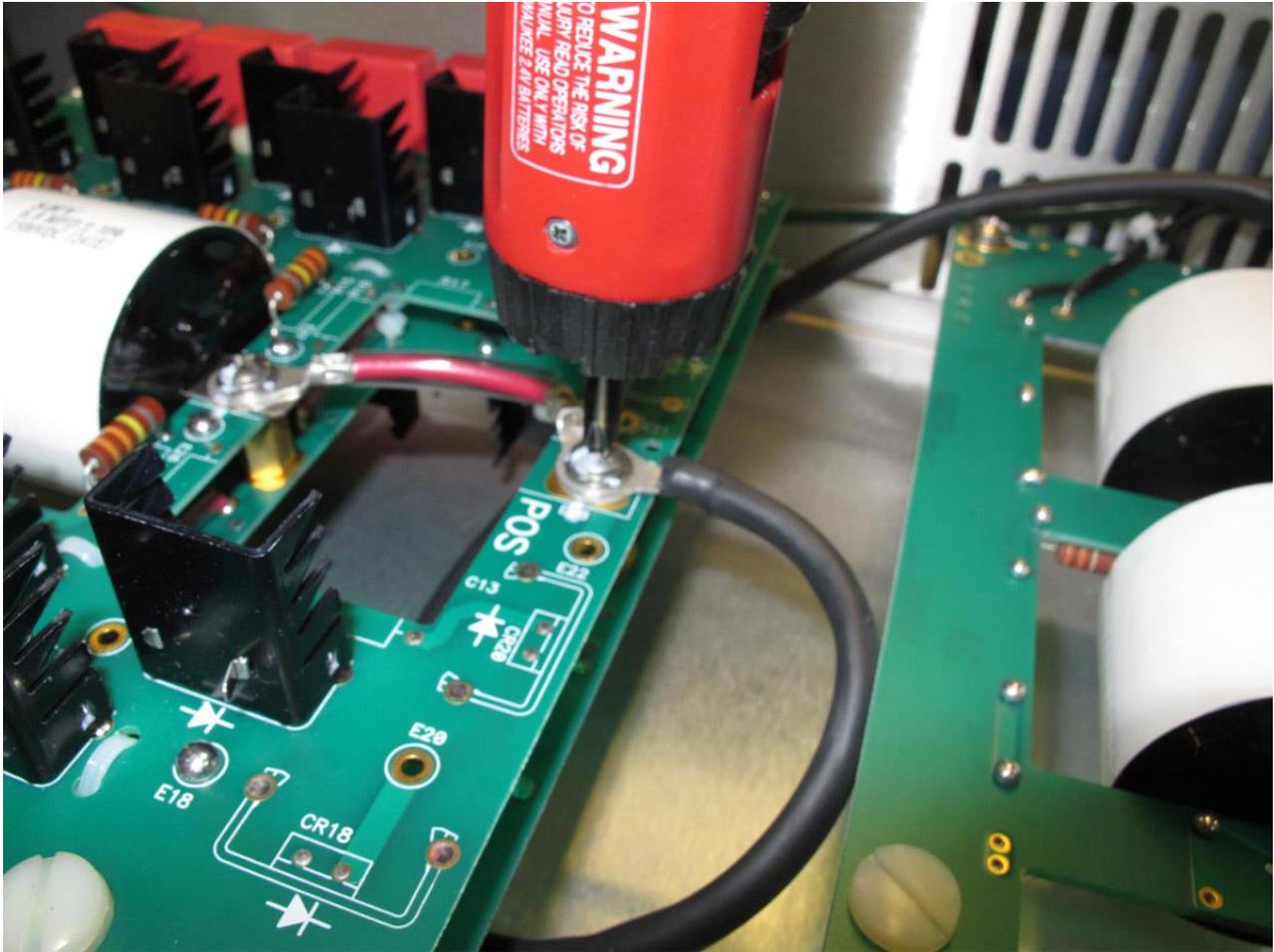


Remove black wire.

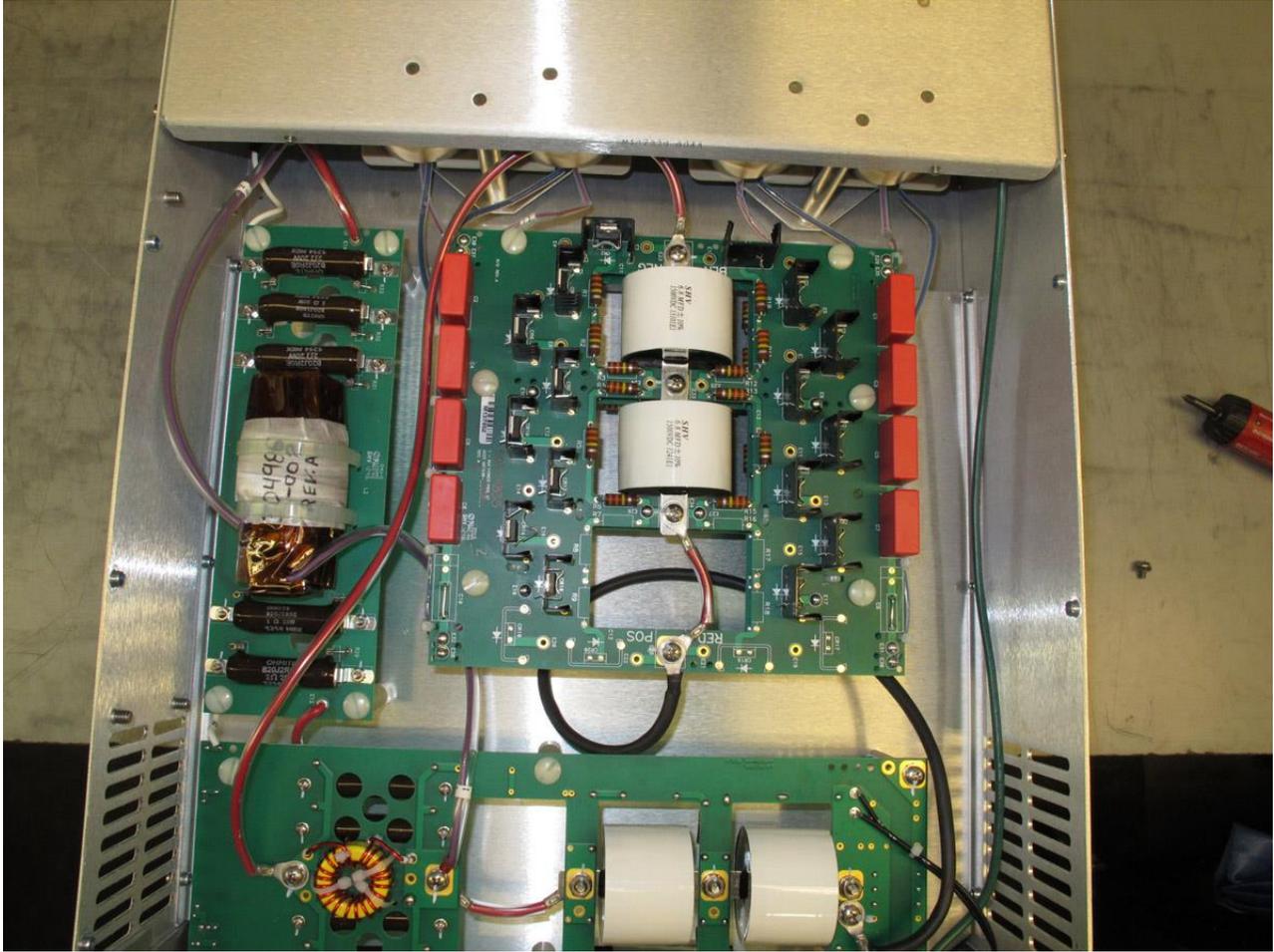
**Note: When removing hardware carefully observe how it assembles and disassembles. Some units may NOT have captive mating hardware requiring the capture and relocation of mating hardware.**



Place red wire on "NEG".

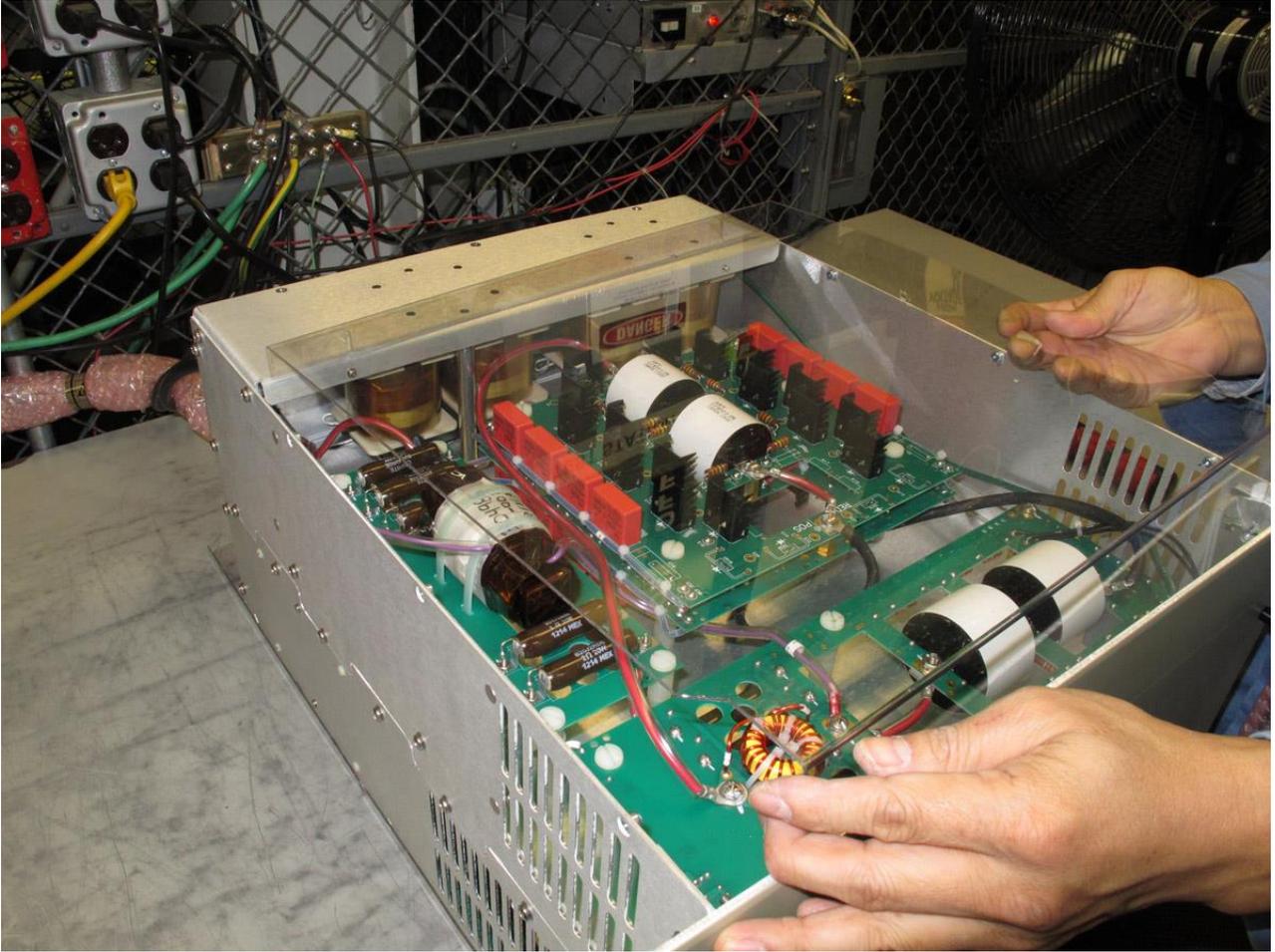


Place black wire on “POS”.



Wire swap completed.

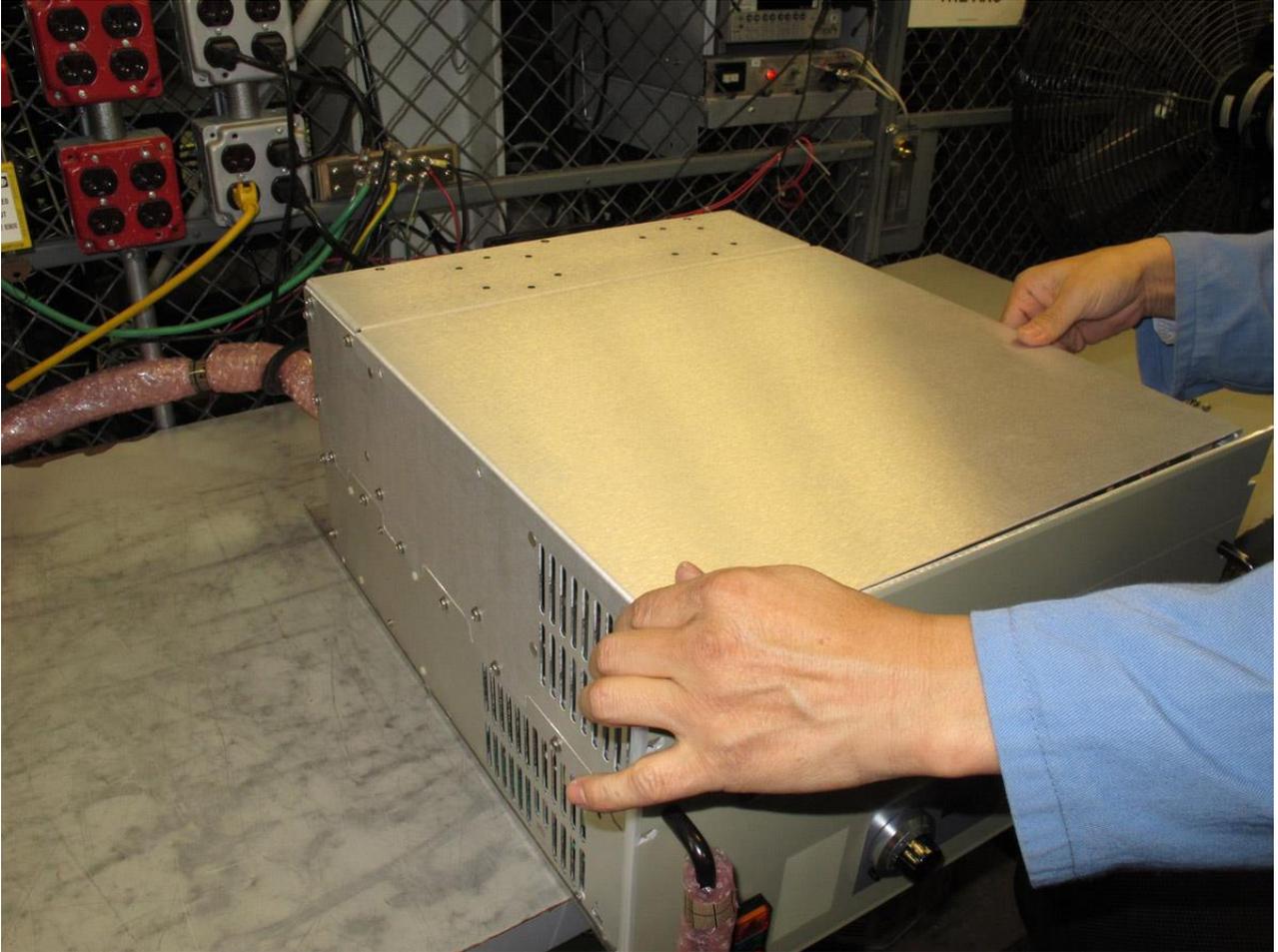
Black on "POS" and red on "NEG" = negative polarity.



Reinstall Lexan safety shield.



Unit ready to be closed up.



Reinstall bottom cover.



Reinstall bottom cover screws.

Polarity reversal complete.