



SOLAR STIK®

**INSTRUCTION MANUAL  
FOR  
CONTROL BOARD REPLACEMENT  
FOR THE  
PRO-VERTER 7000-120**

P/N: 05-1000102

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

Version 1.0

Updated:20200408

## Safety

- Remove jewelry.
- Disconnect all power sources to the PRO-Verter such as batteries, Power Hubs and generators. Ensure all breakers and switches are in OFF position. If in doubt, please contact Solar Stik 24/7 Tech Support at 800-793-4364 Ext. 102.
- Use proper procedures and equipment to prevent damage from electrostatic discharge.

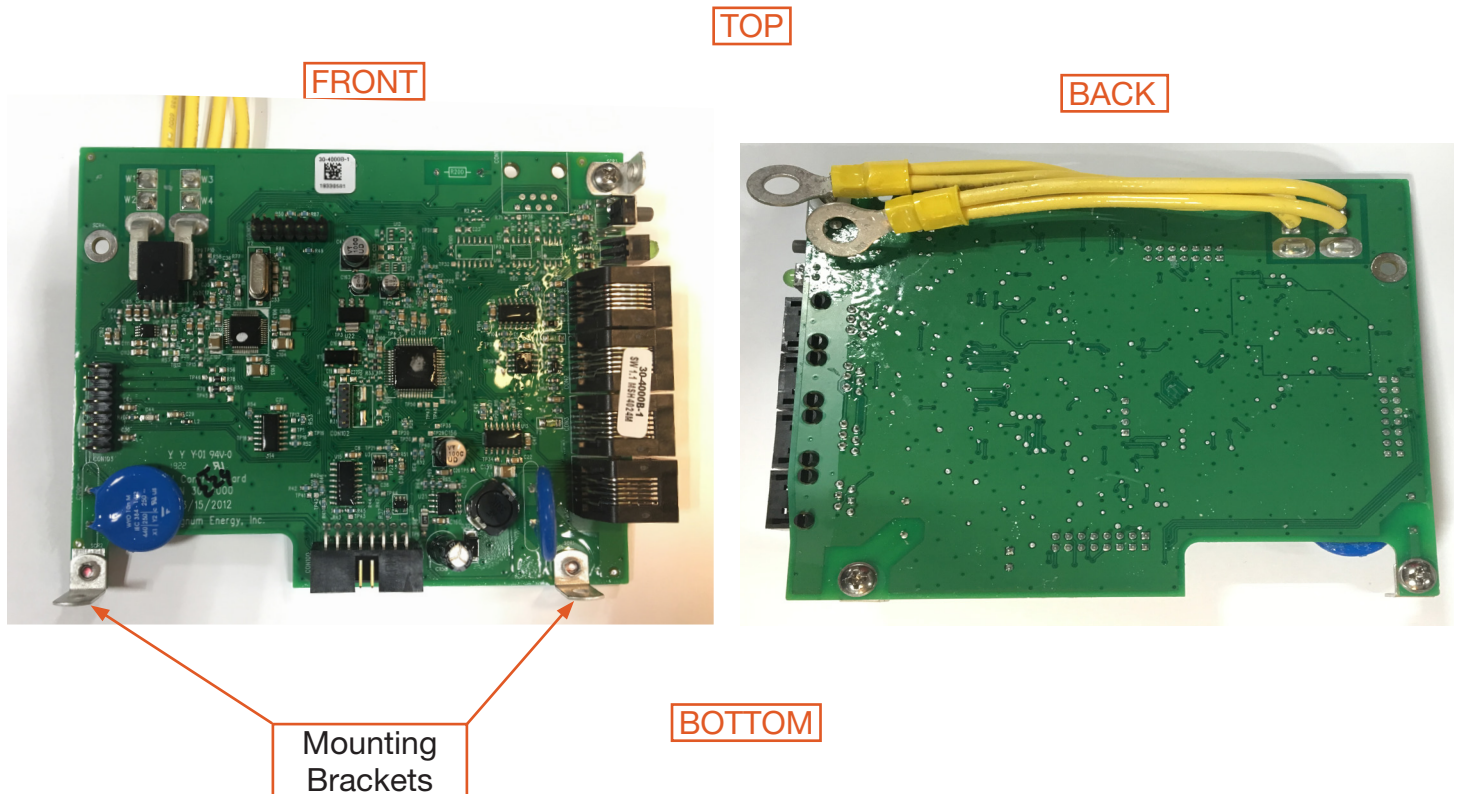
## Tools Required

- Torx T25 driver
- Torx T15 driver
- #2 cross-tip screwdriver
- 7/16" (or 11 mm) sockets and ratchet driver
- Permanent marker
- Utility knife

## Materials Included

- Replacement Control Board for PRO-Verter 7000-120  
P/N: 05-1000102

The Control Board is shown below. Designations of orientation are with respect to the PRO-Verter.



**Note:**

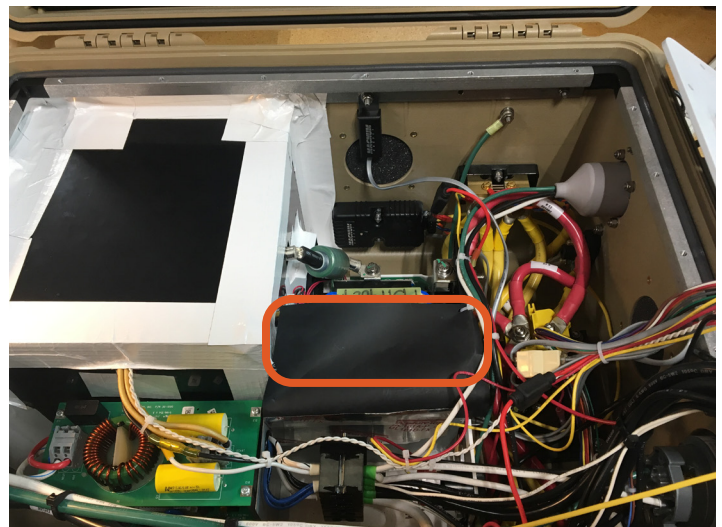
- Use a camera to document original installation configuration to facilitate reassembly.
- Label wires to reduce potential for misconnection during reassembly.

1. Remove the twenty-two (22) fasteners around the perimeter of the PRO-Verter Faceplate (see orange circles, right) using a #2 cross-tip screwdriver. Retain hardware for reinstallation.

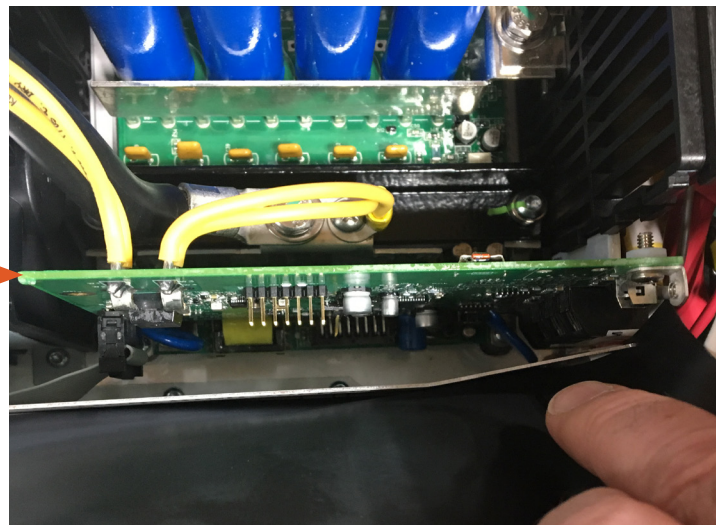


2. Lift the left side of the PRO-Verter Faceplate and swing it open to the right. Support the Faceplate to prevent stressing wired connections between the Faceplate and the interior of the PRO-Verter.

The orange rectangle indicates the location of the Control Board; under the black protective cover.



3. Cut the zip tie (below) to remove the black protective cover to expose the Control Board.

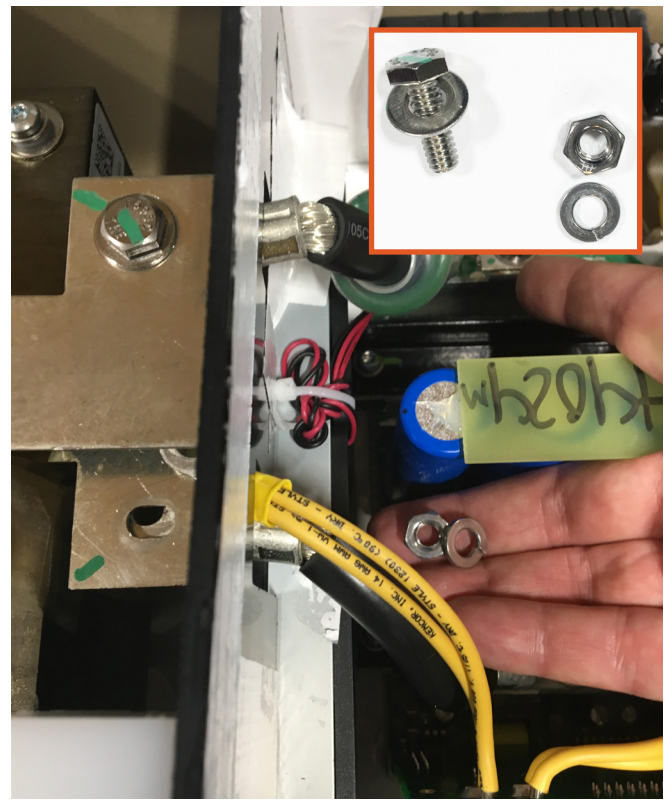




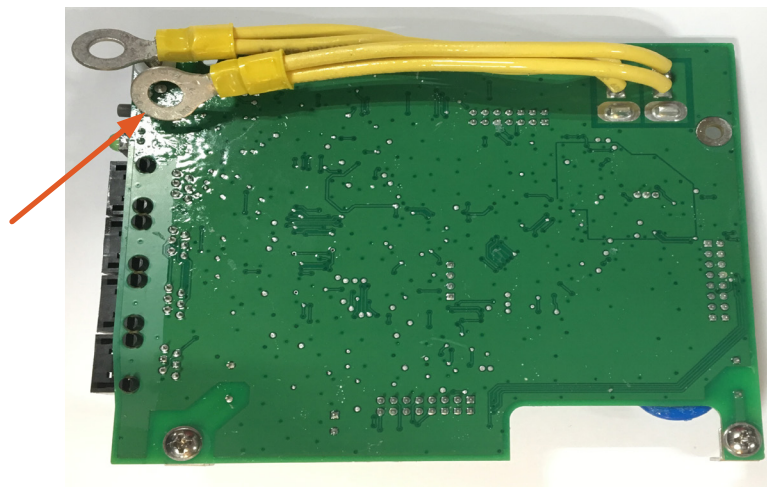
4. Use a utility knife to expose eight (8) fasteners (each indicated by an arrow) that secure the top plate of the baffle box. Use a #1 cross-tip screwdriver and needle nose vice grips (when required) to remove the fasteners that secure the top plate of the baffle box. Retain all hardware for reassembly.



5. Use a 7/16" driver to remove the fastener that secures a pair of yellow wires and a heavy gauge black wire. Catch the nut and washer from below (arrows). Retain hardware for reassembly.

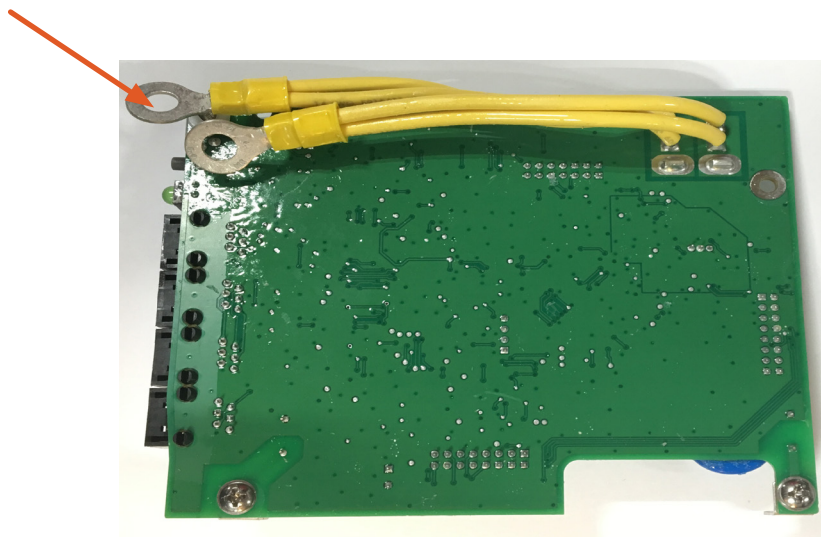


The pair of yellow wires removed in this step is one (1) of two (2) pairs soldered to the back of the Control Board.





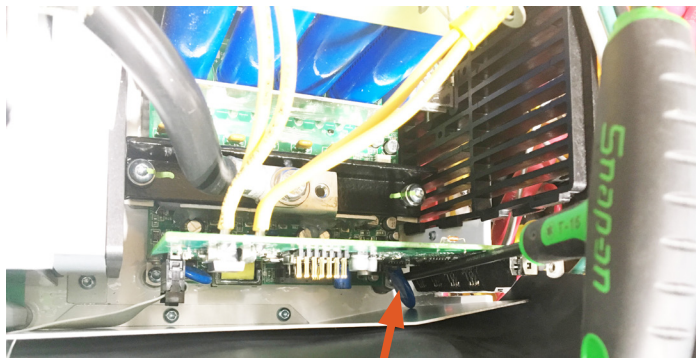
5. Use a #1 cross-tip screwdriver to remove the fastener that secures the second pair of yellow wires to the base of the Control Board plate. Retain hardware for reassembly.



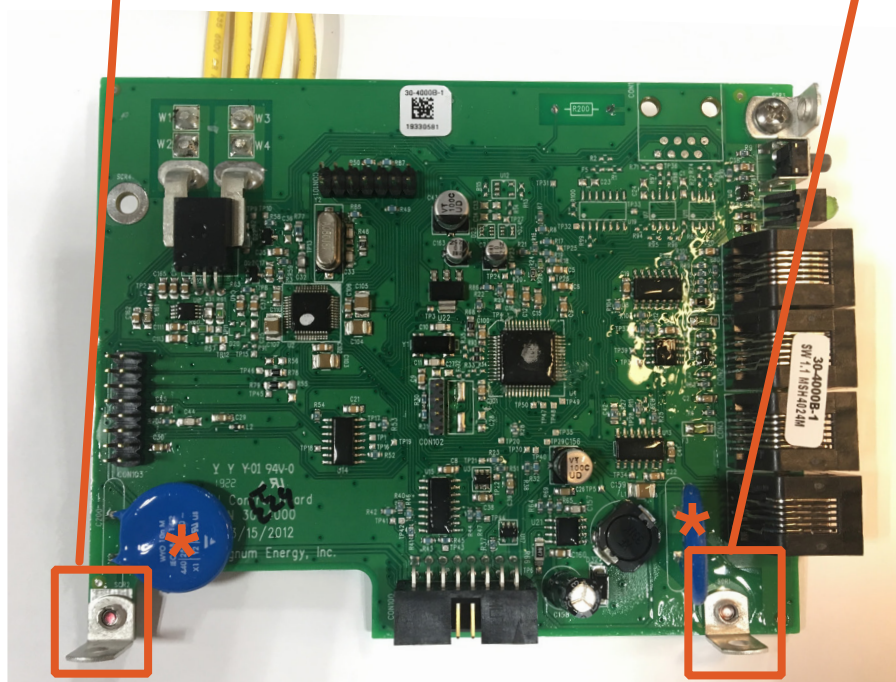
6. Use a Torx T15 driver to remove the two fasteners that secure the Control Board to the FET Board. Retain the fastener for installation of the replacement Control Board.



Left Side



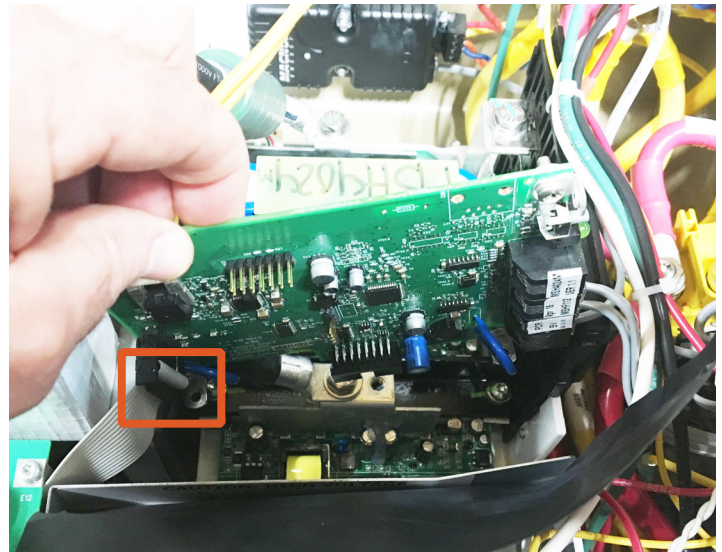
Right Side



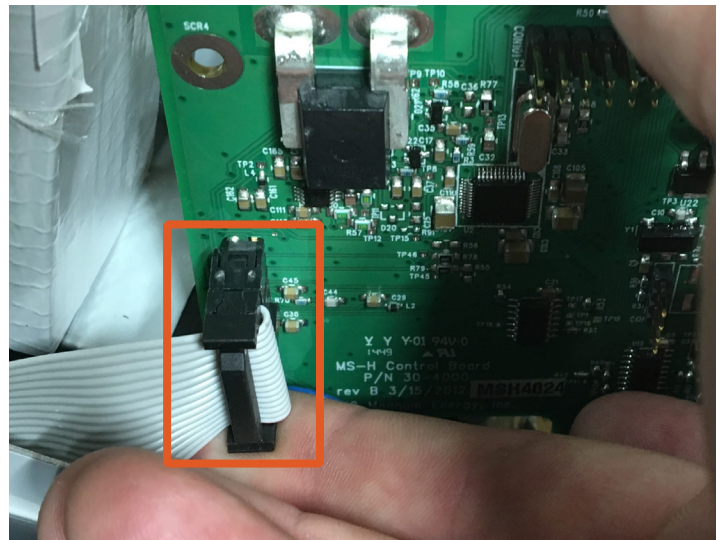
Note: Do not stress/break the blue disk capacitor\* connections to the board during replacement.



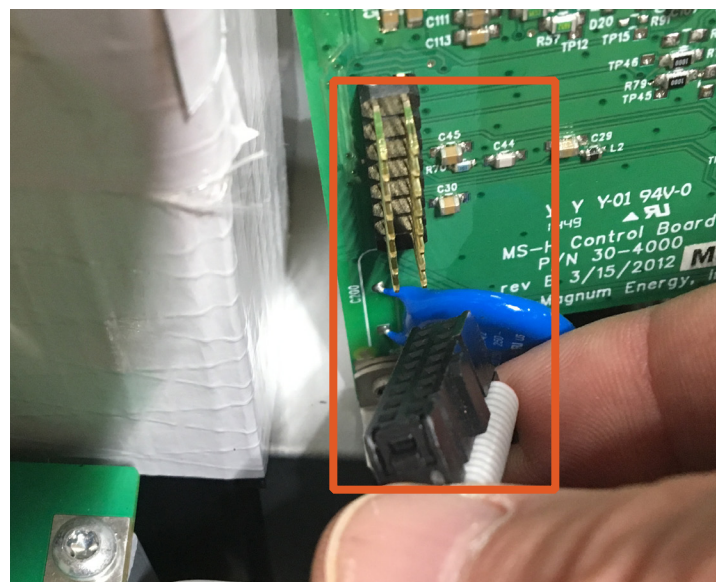
7. Lift the Control Board straight up to disconnect it from the FET Board.



8. Disconnect the ribbon cable from the Control Board.

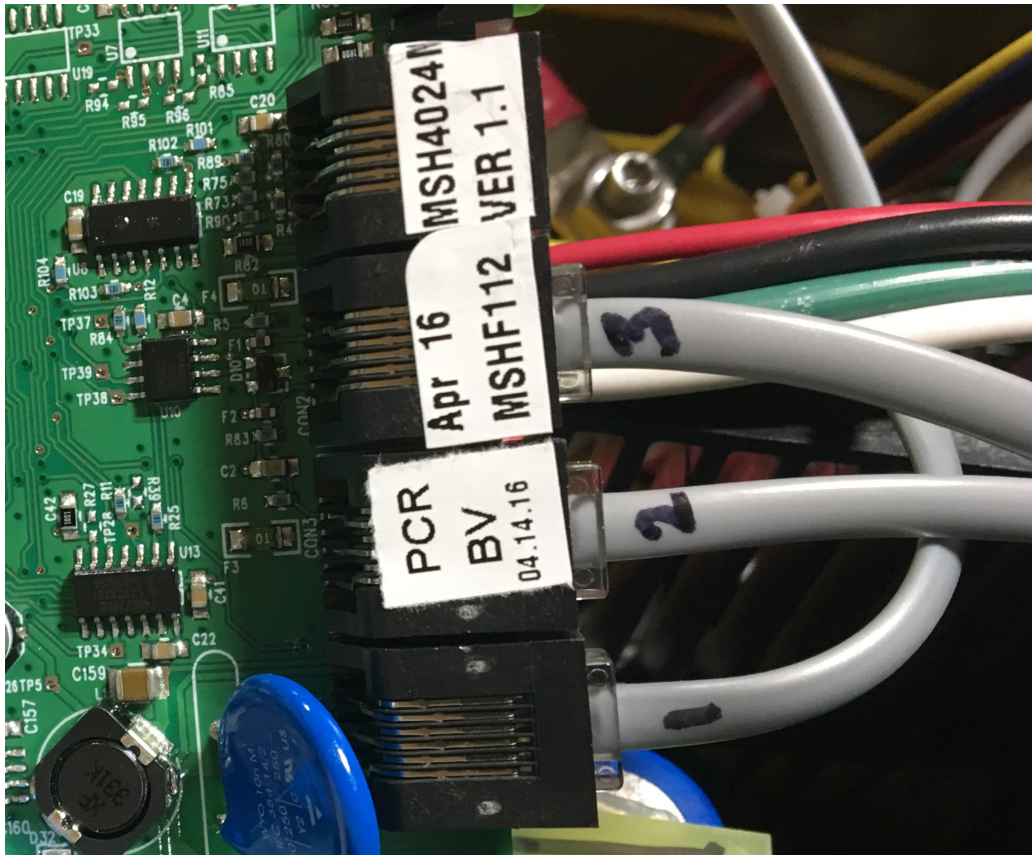


**Note:** Do not stress or break the connections of the disk capacitor.





9. Label and disconnect the three (3) communication cables from the right side of the Control Board. The labels simplify installation of the replacement Control Board.



10. Repeat Steps 1-9 in reverse order to install the replacement Control Board.