

**Technical Support Bulletin: S3-FMLPCD-01**

**Field Modification of the BVS-S3 Load Plate for a Center Disconnect**

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*This procedure outlines the steps required to modify the load plate for a center disconnect in the BVS-S3.*

**ELECTROCUTION HAZARD!**

**High voltage is present within the BVS chassis. The voltage sensing leads and load current leads carry full battery voltage. Battery Voltage can be as high as 600Vdc depending on the battery system! If you are not trained to work with high voltage equipment, do not attempt to use this procedure!**

**Tools required:**

- Soldering iron
- 11/16" socket with 7" extension for removal of the chassis and/or 9/16" open end wrench for removal of the load plate
- Wire cutters
- Needle nose pliers

**Overview:**

The following are the steps required to modify the load plates for the Center Tap Disconnect Switch.

1 - REMOVE THE ENTIRE CHASSIS AND LOAD PLATE FROM THE CABINET.

Alternately, the load plate can be removed if desired!

2 - Install the new Hypertronics connector with green lead. on the load plate with the hardware provided. If the bracket does not have a spare hole, install the new bracket immediately below the connector with the red, orange and black leads. Terminate the lead in the fourth terminal of the terminal block.

3 - Remove the transistor cover from the load plate.

4 - Cut the orange lead from the top resistor on the upper left-hand side **WHEN VIEWED FROM THE BACK OF THE LOAD PLATE**. The other end of this orange wire is connected to the 0.1 ohm resistor on the front of the plate. Pull the wire through the hole on the center of the plate. Cut only this wire from the 0.1 ohm resistor.

5 - Install the capacitor on the terminal strip mounted to the top of the load plate. This terminal strip should have 3 capacitors already soldered to it. One lead of the new capacitor leads should be soldered to a terminal that is grounded. Alternately, the lead can be soldered to a terminal

with no ground, and the lead extended to a terminal with a ground. The other lead should be temporarily attached to a terminal that is not grounded

6 - Solder one end of the green 16 AWG wire provided to the resistor on the upper left-hand side **WHEN VIEWED FROM THE BACK OF THE LOAD PLATE**. (This resistor had the orange lead connected to it!)

8 - Pass the other end of the green wire through the hole in the center of terminal plate with the red, orange, and black wires. Cut to the proper length and terminate on the terminal strip with the ungrounded capacitor lead installed in Step 5 above.

9 - Extend the connection from the terminal strip back through the hole below the terminal strip, and then through the hole on the right side of the load plate above the Hypertronics bracket and insert in the fourth terminal of the terminal block.

10 - Verify clearances of capacitors to ground before reinstalling the transistor cover on the load plate.