**Installation Instructions to add 3rd blocking diode to #1 Negative.**

Parts supplied: Blocking diode on aluminum heatsink and mounting screw.

Tools needed: Drill w/ 3/16” bit, 7/16” wrench, 3/8” wrench, 5/16” wrench and screw driver.

**Picture 1:** This is a view of the backside of the panel showing how the rectifier is set up now.

**Picture 2:** Drill a 3/16” hole about ¾” to the left of shunt #3.

**Picture 3:** Unbolt the diode heatsink between shunt #2 & shunt #3.

**Picture 4:** Move diode heatsink to the left of shunt #3 and bolt it to the panel. Note diode should be pointing toward shunt #3. Also you will have to loosen the pigtail on the diode and point it slightly up and re-tighten.

**Picture 5:** Unbolt the diode heatsink between shunt #1 & shunt #2.

**Picture 6:** Move diode heatsink to the left of shunt #2 and bolt it to the panel. Note diode should be pointing toward shunt #2. Also you will have to loosen the pigtail on the diode and point it slightly up and re-tighten.

**Picture 7:** Install new larger blocking diode and heatsink to the left of shunt #1. Note diode should be pointing toward shunt #1.

**Picture 8:** Make sure all the heatsinks are tight to the panel.

**Picture 9:** Remove wires that attach to shunt #1 except the short 3”-4” long DC lightning arrestor wire. That one can stay on shunt #1.

**Picture 10:** Connect the wires that were removed from shunt #1 and attach them to the ¼” stud on the diode heatsink to the left of shunt #1.

**Picture 11:** Make sure this connection is tight.

**Picture 12:** Attach diode pigtail to shunt #1 where the other wires were removed.

**Picture 13:** Make sure this connection is tight.

**Picture 14:** This is how it should look when you are done.

Double check all electrical connections to make sure they are tight and place rectifier back into service.