

**Affected Products:** RV Power Products Solar Boost™ 2000E, serial numbers less than 4670

**Purpose:** Relay clicking due to another charging source on battery

## **Background:**

The Solar Boost 2000E uses a relay for night time disconnect and protection against accidental reverse battery connection. If another charging source such as an AC powered charger, alternator, etc., is connected to the same battery as the Solar Boost 2000E it is possible for the Solar Boost 2000E relay to turn on and off if the other charging source is attempting to apply the same charge voltage as the Solar Boost 2000E. This will not harm or shorten the life of the solar Boost 2000E as it's internal power control electronics removes power from the relay contacts before allowing the relay to switch.

## **Correcting The Problem**

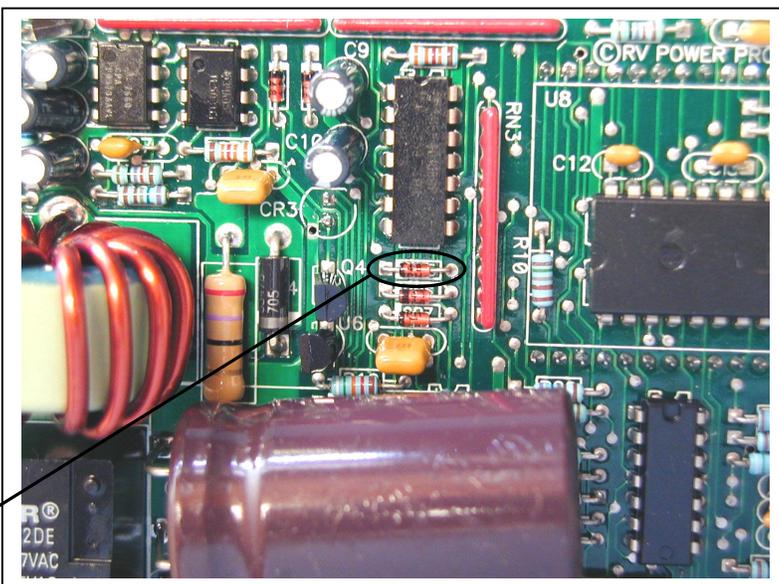
If desired the problem can be corrected by removing diode CR5 from the circuit board. All units serial number 4670 and greater (manufactured approximately 10/03 or later) have this diode removed. Removing the diode does not affect operation or calibration of the unit in any way except for a slight change in the on/off detection circuit to eliminate potential on/off instability. Removing or not removing the diode does not affect the product warranty in any way.

## **Removing Diode CR5**



➤ **CAUTION:** Disconnect all power sources, PV and battery before removing CR5. Wear quality eye protection when performing this work.

1. All electronic circuits can be damaged by static electricity. Just before touching any components on the circuit board, discharge static electricity from your body by touching a water faucet or other ground. Then touch and hold any screw on the big black terminal block while removing CR5.
2. With a small set of precision cutters carefully remove diode CR5 as shown in the photo.
3. Reinstall the unit, restore power and check for proper operation.



Diode CR5