

Steve's Tip 3
Check Power to Your
Automatic Transfer Switch

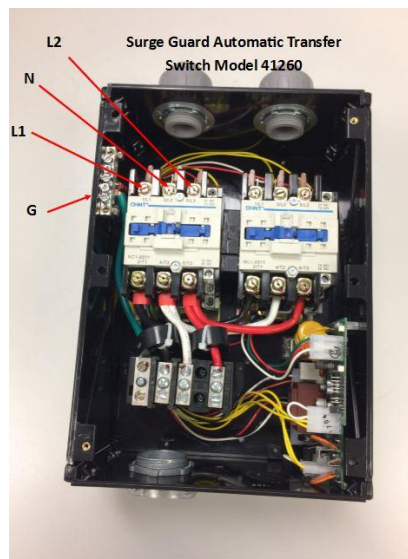
Southwire recommends that if you are not qualified, through training or experience, to working on energized 120/240-volt electrical equipment, please seek the assistance of a qualified technician.

Sometimes it is necessary to verify the voltage going into the Automatic Transfer Switch (ATS). This is another check that can be done to troubleshoot an issue if the switch is not engaging. It is an easy task and I will explain how to do this in this document.

Tools Required: Torx T-10 Safety Screw Driver. Voltmeter capable of reading 0 volts to 240 volts. Expensive voltmeter not required.

Step by Step Procedure:

1. The first thing you must do is remove the cover from the ATS. There are two screws that must be removed. They are located in the top right and the bottom left corners of the cover. Once these are removed, the cover will come off with a good yank from the sides. The rivets secure compression clips that do not have to be removed.



2. Inside the switch, you will see two relays. One is for Shore Power and the other is for Generator Power. There is a label on top of the box and/or inside the box which tells you which switch is which. We will use the left side switch for this discussion.
3. Using your multi meter probes, insert them on the lugs and record the voltage as follows:

L1	to	N	120 Volts
L1	to	G	120 Volts
L2	to	N	120 Volts
L2	to	G	120 Volts
N	to	G	0 Volts
L1	to	L2	240 Volts

If your readings are close to the readings in the above chart, the source of your power looks good!

If your readings deviate from the readings in the above chart, your source of electricity is bad. You should contact the owner of the electric supply and discuss. It is not recommended that an electrical supply that deviates from the above values be used in your RV.