#### PD5100 TROUBLESHOOTING GUIDE

#### **WARNING: SHOCK HAZARD**

DUE TO THE HIGH VOLTAGES ASSOCIATED WITH ITS OPERATION ONLY QUALIFIED SERVICE PERSONNEL SHOULD INSTALL OR TROUBLESHOOT THIS TRANSFER SWITCH!

## **Contact Cleaning:**

- 1. Disconnect all AC power from the RV and make sure the generator is "OFF"
- 2. Remove the cover from the ATS.
- 3. Using a Phillips screwdriver remove the relay cover.

The most common reason for power not transferring is contamination of the contacts. The contacts and inside of the housing must be free of any debris. A piece of paper slid between the contacts is enough to clean them. Spray contact cleaner will also work. Do not use compressed Air!

# **Testing shore power function:**

- 1. Connect shore power
- 2. Measure for 120 VAC at Shore power cord terminals.



No 120 VAC, then power is not getting to the switch. Check Shore cord connections.

Refer to RV and Generator Manuals.

3. Measure for power at Panel output terminals



Yes 120 VAC, transfer switch Shore side functions.

No 120 VAC, replace transfer switch

Turn off all power and see contact cleaning above, then repeat test

## **Testing Generator power function:**

- 1. Start generator
- 2. Check for 120 VAC at Gen Relay terminals.



No

Yes 120 VAC, wait for 20-45 second delay.

Yes

No 120 VAC, then power is not getting to the transfer switch from the generator. Refer to RV and Generator Manuals.

3. Measure for power at Panel output terminals.



No 120 VAC,

Check for 165 VDC at red and yellow wire.



Yes

No 165 VDC...time delay board needs replacing. \*\*

Yes, 165 VDC...time delay board is good. Turn off all power to the switch and see contact cleaning above, then repeat test.