

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.



Yes 120 VAC,



3. Measure for power at Panel output terminals



Yes 120 VAC, transfer switch
Shore side functions.



No 120 VAC, then power is not getting
to the switch. Check Shore cord connections.
Refer to RV and Generator Manuals.



No 120 VAC, replace transfer switch
or
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.



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



3. Measure for power at Panel output terminals.



Yes 120 VAC, on Panel output terminals
The transfer switch is good.



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



No 120 VAC,



Check for 165 VDC at red and yellow wire.



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 .



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