

The following testing is only necessary when there are symptoms involving the loss of 120 VAC to appliances or outlets. This could occur on shore power, generator power or both. For the following procedure use the inside cover label as a reference..

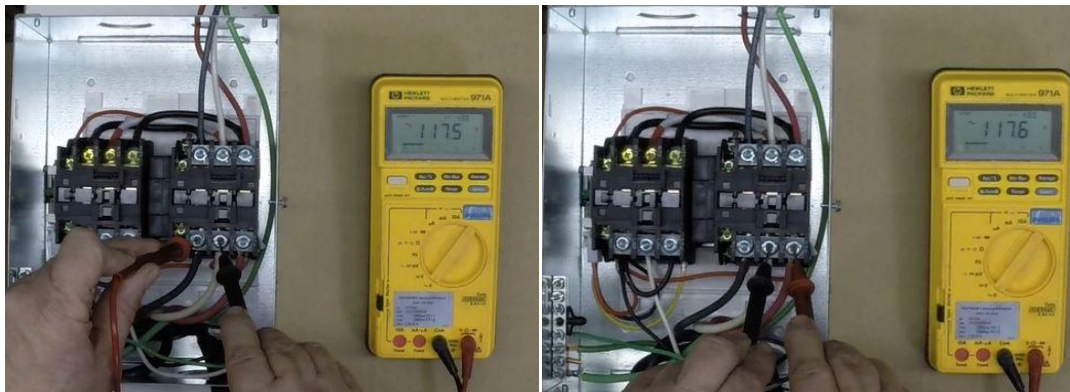
1. With the shore power and generator power off. Press alternately in the middle of each contactor. They should move up and down freely. If either does not move freely, the transfer switch must be replaced.



2. With the shore power on and the main breaker off. Measure between the neutral and Hot 1, then the Neutral and Hot 2 Where the shore cord connects to the contactor.

The readings should be within a few volts of each other, and between 105 – 130 VAC.

If either is not in this range, there is a problem with the shore cord or outlet.



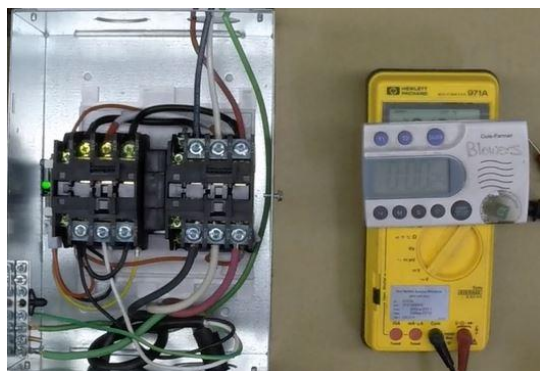
3. With the shore power on and the main breaker off. The center of the shore side contactor should be in the down position, if it is not the switch is defective.

On the panel output side measure between the neutral and Hot 1, then the Neutral and Hot 2.

The readings should be within a few volts of each other and similar to the readings in step 2. If they are not, the contactor is defective. Replace the transfer switch.



4. Generator side. Turn on the generator. In 20 – 30 seconds the green light on the side of the contactor will illuminate and the generator contactor will go down, (engage) . The shore side contactor will release as this is happening.



5. To check the output from the generator . (Input to the contactor.)

Measure between the neutral and Hot 1, then the Neutral and Hot 2, where the generator cord connects to the contactor.

The readings should be within a few volts of each other and between 105 – 130 VAC.

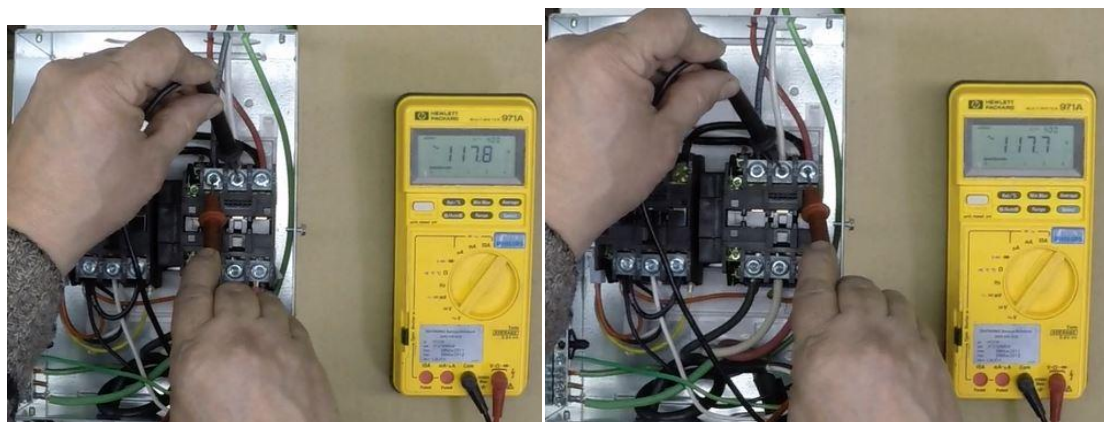
Generators with a single leg output will have a jumper between Hot 1 and Hot 2.



6. The center of the Generator contactor should be in the down position, if it is not the switch is defective.

On the panel output side measure between the neutral and Hot 1, then the Neutral and Hot 2.

The readings should be equal and between 105 – 130 VAC. If they are not similar to the readings in step 5, the contactor is defective. Replace the PD52.



Description of Operation

- When power is applied to the shore side, the contactor activates and supplies power to the panel—
- When power is applied to the Gen side there is a 20-45 second delay then the Gen side contact will activate, power will go to the panel from the Gen side and the shore side will be locked out— GREEN generator LED on the circuit board will light.
- If shore power returns while the Gen power is present, nothing will happen. When the Gen power is removed the contactor will drop out and allow the shore side to supply power.
- In a single leg application, the HOT1 side must be used for the control circuitry to work.

Other Resources.

[Installation Manual](#)

Progressivedyn.com

Email service@progressivedyn.com

Service Department 269 781-4241