

Park Brake Interlock Circuit Test**Reason:**

To verify proper operation of safety interlock circuit.

Test Equipment:

- Digital multimeter

Procedure:

1. Set meter to DC volts.
2. Place equipment key switch in off position, lock the park brake and ensure the PTQ is off.



3. Disconnect safety interlock circuit purple wire (A) from red inverter wire.



4. Insert red meter test lead (B) into brake interlock switch wire connector.
5. Attach black meter test lead (C) to negative battery terminal.
6. Turn equipment key switch to on position.

Results:

- Meter should display battery voltage. If meter does not display battery voltage a problem exists with the equipment wiring or interlock switch.

Inverter Ground Continuity Test**Reason:**

To verify that there is continuity between the inverter case and the engine frame.

Test Equipment:

- Digital multimeter

Procedure:

1. Set digital multimeter to ohms test.
2. Connect the leads of the Ohm meter between inverter case and the engine frame.
3. Verify that there is continuity between the inverter case and the GFCI ground.

Results:

- If continuity exists, the meter will make a continuous tone. If the meter does not show continuity, a problem exists with the system wiring.

Reset (On-Off) Switch Test**Reason:**

To verify proper operation of reset (on-off) switch.

NOTE: The 100 watt system may not reset if battery voltage is less than 12 volts (V).

Test Equipment:

- Digital multimeter

Procedure:

1. Set meter to ohms test.
2. Disconnect reset (on-off) switch from harness and remove from machine.
3. Attach a meter test lead to each terminal on switch.



4. Measure the continuity across the switch in the on (A) and off (B) positions.

Results:

- With switch in on position meter should make a continuous tone, continuity.
- With switch in off position meter should display OL, (no continuity).

100 Watt Stator AC Output Test**Reason:**

To verify AC output of stator to the inverter.

NOTE: It may be necessary to remove the inverter from the equipment.

Test Equipment:

- Digital multimeter
- JDS-HDS Test Box
- TorqB Driver, Test with it (if not)
- Technician

Procedure:

NOTE: Make all connections before starting engine.

1. Remove torque proof screws from harness plug at inverter using TorqB Driver and remove plug.



2. Insert alternator harness plug (A) into socket in JDS-HDS test box.
 3. Set digital multimeter to read AC volts.
 4. Insert meter test leads into either receptacle in test box.
- NOTE:** Do not exceed 1800 rpm.
5. Start engine and set speed to 1800 rpm.

6. Press button (B) on test box and note AC voltage.

Results:

Alternator output should be no less than 100 volts AC.

- If output is 100 volts or higher, replace the inverter.
- If output is less than 100 volts, replace the stator.

Inductor Test**Reason:**

To verify operation of inductor.

Test Equipment:

- Digital multimeter

Procedure:

NOTE: To test the inductor it must be disconnected from the circuit, (using the GFCI outer cord from the inverter output cord).

1. To check the continuity of inductor circuit



- Connect the multi-meter between the small blade of the GFCI outer cord plug (positioned as shown) and the small blade socket of the GFCI outlet. There should be continuity.

Tm1756 Technical Manual

J Ma



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