



System	Date of Issue	Type of Service Information
G2V2	3/17/16	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Procedure

## Title: Troubleshoot Main HVIL Circuit Code 125

### Special Tools or Software Required:

Where Available	Type of Tool	Equipment Description
	Multi-meter	

### Procedure:

**NOTE:** Code 125 is a Permanent code. The condition causing the code must be resolved and then the vehicle ignition switch must be cycled to clear the code.

1. Key "ON" and check display for diagnostic codes (125) by pressing and holding the outer two buttons on the display. Note that code 148 (Low or Out of Range) may also be present.



*Display: 125 Code Present*



*Display: 148 Code Present*

The information in this Service Information is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. Warranty Policy documentation determines Warranty coverage unless stated otherwise. The information in this Service Information was current at the time of printing. Odyne Systems, LLC reserves the right to supersede this information with updates. The most recent information is available through Odyne on-line technical resources.

2. **Turn the ignition switch OFF. Remove the key and secure it in a safe place.**
3. Verify the inertia switch is not tripped.
4. Unplug the J38 connector going to the inertia switch and verify 12 volts on pin 1.
  - If voltage is not present, check fuse F23-5A in PDM and replace if necessary.
  - Reconnect the J38 connector after confirming 12 volts on pin 1.
5. Check for voltage on the DC-DC connector. Connector and pin numbers vary based on type of truck. On G2V2 trucks, check connector J10a, pin 1. On G2V2.01 trucks, check connector J10, pin 2.
  - If voltage is not present, check the wiring between the connector and J38 pin 3 on the inertia switch connector.
  - Reconnect connector to DC-DC after confirming voltage.
6. Check for voltage on J11a, pin 1 on the charger. If voltage is not present, check the wiring between the connector and J10a, pin 2 (G2V2) or J10, pin 7 (G2V2.01).
7. Inspect the switch and bracket on the charger high voltage connector. Make sure it is properly installed on the high voltage connector and that it is not bent or damaged.



*Switch and Bracket*

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8. Check for voltage on the motor resolver connector J20, pin 4. If voltage is not present, check the wiring from charger HVIL switch J11a connector to J20, pin 4. If the wiring is good, check continuity on pins 4 and 13 on the motor. If open, inspect the HVIL switch inside the motor junction box.



*HVIL Switch*

9. Check for voltage on the J39 connector, pin 3 on the HVJB. If voltage is not present, check the wiring from the J39 connector, pin 3 to J20, pin 13.



*J39 Connector*

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10. Check continuity on the HVJB. If open, disable high voltage and remove the HVJB lid and inspect the switch in the HVJB.



*Switch in HVJB*

11. If there is continuity on the HVJB, inspect the HCU connector J2, location F3.

## **Odyne Service Support Resources:**

To request technical assistance, contact [ServiceSupport@Odyne.com](mailto:ServiceSupport@Odyne.com).

To request parts, contact [Parts@Odyne.com](mailto:Parts@Odyne.com).

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