

System	Date of Issue	Type of Service Information
G2V2	1/19/16	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Procedure

Title: Troubleshoot Auxiliary HVIL Circuit Code 126

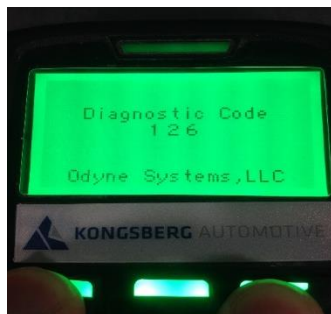
Special Tools or Software Required:

Where Available	Type of Tool	Equipment Description
	Multi-meter	

Procedure:

NOTE: Code 126 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 (126) by pressing and holding the outer two buttons on the display.



Display: 126 Code Present

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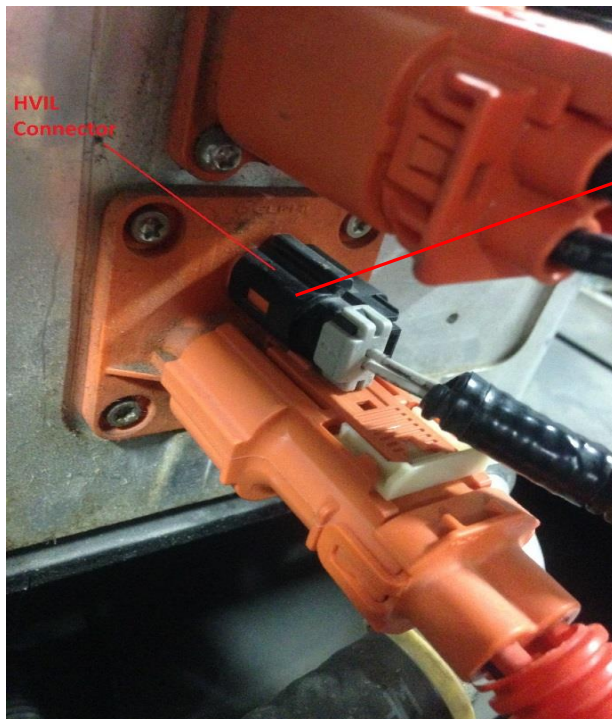


2. Make a note of any other codes present such as code 150 (Low or Out of Range).



Display: 150 Code Present

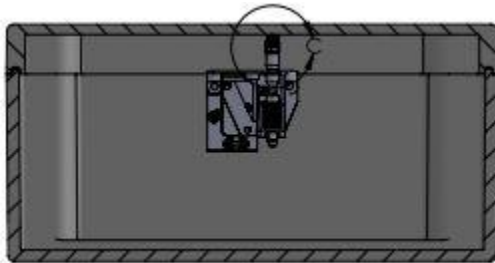
3. Unplug connector J18 and verify 12 volts is present on pin 5.
 - If no voltage, check fuse F18-5A in PDM. Replace if necessary.
 - Reconnect J18 after confirming correct voltage.
4. Unplug connector J29 and verify 12 volts is present on pin 3.
 - If no voltage, check connection for secure connections to exportable power inverters.
 - Reconnect J29 after confirming correct voltage.



Example: HVIL Connection to Exportable Power Inverter

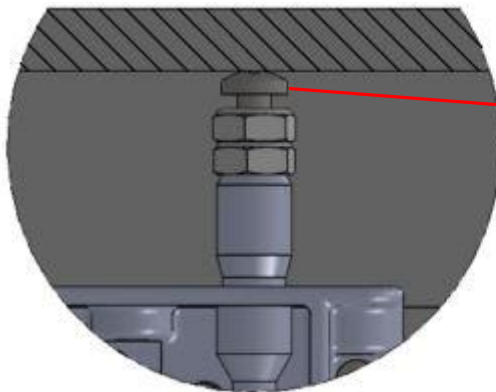
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5. Unplug connector J29b going to the air conditioning control box and verify 12 volts is present on J29b pin 3.
 - If no voltage, check for secure connections where the J29a (sub-harness) connects to the J29 (main-harness).
 - If voltage is present, leave J29b connector disconnected.
6. Check continuity on J29b1 on the air conditioning control box across pins 3 and 4.
 - If there is continuity, reconnect J29b to the air conditioning control box and check for power on J2-F4 connector on the HCU and ensure connections are tight from J29 to the J2-F4 on the HCU. Then, continue with step 11.
 - If there is no continuity across pins 3 and 4, continue with step 7.
7. **Before Starting Procedure: Disable High Voltage System before opening the air conditioning control box.**
8. Open the air conditioning control box and locate the HVIL plunger switch on the side of the box.
 - Determine if the switch makes contact with the lid when the lid is attached.



HVIL Switch

- If necessary, adjust the screw so that the switch engages when the lid is closed.

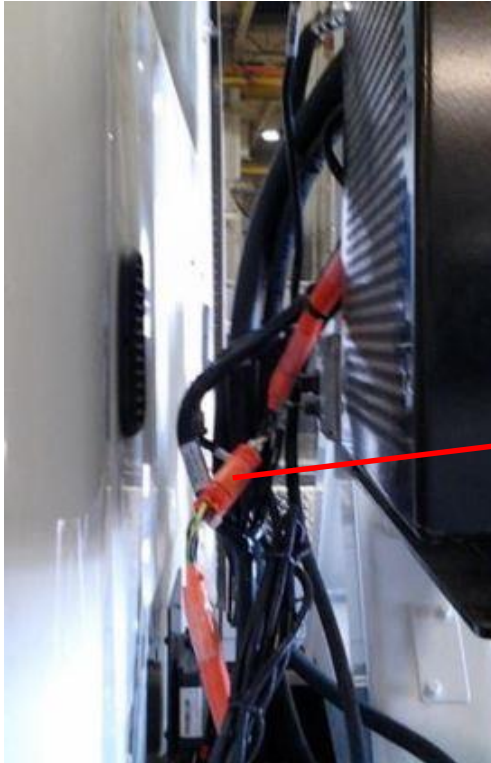


ADJUST SCREW SO THAT WHEN ENCLOSURE LID IS CLOSED THE SWITCH IS ENGAGED. LOCK THE SCREW POSITION BY TIGHTENING THE 2 NUTS AFTER PROPER HEIGHT IS DETERMINED.

HVIL Switch Adjustment Screw

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9. Inspect the connections going to the switch and make sure the terminal screws are tight.
10. If an AC compressor connector is installed, check the high voltage connector to the AC compressor and make sure the pins are properly seated in locations 2 and 5.



*AC Compressor
Connector*

AC Compressor Connector

11. Key ON the vehicle ignition switch and cycle through the display to ensure the codes have cleared.

Odyne Service Support Resources:

To request technical assistance, contact ServiceSupport@Odyne.com.

To request parts, contact Parts@Odyne.com.

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