

**Symptom List:**

**P0132-O2 SENSOR 1/1 VOLTAGE HIGH**  
**P0138-O2 SENSOR 1/2 VOLTAGE HIGH**  
**P0152-O2 SENSOR 2/1 VOLTAGE HIGH**  
**P0158-O2 SENSOR 2/2 VOLTAGE HIGH**

**Test Note: All symptoms listed above are diagnosed using the same tests. The title for the tests will be P0132-O2 SENSOR 1/1 VOLTAGE HIGH.**

**When Monitored and Set Condition:****P0132-O2 SENSOR 1/1 VOLTAGE HIGH**

**When Monitored:** The engine running for 119 seconds. O2 Sensor Heater Temperature is greater than 496°C (925°F). Battery voltage greater than 10.99 volts.

**Set Condition:** The Oxygen Sensor voltage is above 3.9902 volts for 30 seconds. One trip fault.

**P0138-O2 SENSOR 1/2 VOLTAGE HIGH**

**When Monitored:** The engine running for 119 seconds. O2 Sensor Heater Temperature is greater than 496°C (925°F). Battery voltage greater than 10.99 volts.

**Set Condition:** The Oxygen Sensor voltage is above 3.9902 volts for 30 seconds. One trip fault.

**P0152-O2 SENSOR 2/1 VOLTAGE HIGH**

**When Monitored:** The engine running for 119 seconds. O2 Sensor Heater Temperature is greater than 496°C (925°F). Battery voltage greater than 10.99 volts.

**Set Condition:** The Oxygen Sensor voltage is above 3.9902 volts for 30 seconds. One trip fault.

**P0158-O2 SENSOR 2/2 VOLTAGE HIGH**

**When Monitored:** The engine running for 119 seconds. O2 Sensor Heater Temperature is greater than 496°C (925°F). Battery voltage greater than 10.99 volts.

**Set Condition:** The Oxygen Sensor voltage is above 3.9902 volts for 30 seconds. One trip fault.

**POSSIBLE CAUSES**

INTERMITTENT CONDITION

O2 SENSOR

O2 SENSOR RETURN CIRCUIT OPEN

O2 SENSOR SIGNAL SHORTED TO VOLTAGE

**P0132-O2 SENSOR 1/1 VOLTAGE HIGH — Continued**

POSSIBLE CAUSES	
O2 SENSOR SIGNAL OPEN	
PCM RETURN CIRCUIT	
PCM SIGNAL CIRCUIT	

TEST	ACTION	APPLICABILITY
1	Start the engine. Allow the engine to reach normal operating temperature. With the DRBIII®, read the O2 Sensor voltage. Is the voltage above 3.99 volts?  Yes → Go To 2  No → Go To 8	All
2	Turn the ignition off. Disconnect the O2 Sensor harness connector. Ignition on, engine not running. With the DRBIII®, monitor the O2 Sensor voltage. Is the O2 Sensor voltage below 4.8 volts?  Yes → Go To 3  No → Go To 5	All
3	Turn the ignition off. Disconnect the O2 Sensor harness connector. Ignition on, engine not running. Measure the voltage on the O2 Sensor Return circuit in the O2 Sensor harness connector. Is the voltage at 2.5 volts?  Yes → Replace the O2 Sensor. Perform POWERTRAIN VERIFICATION TEST VER - 5.  No → Go To 4	All
4	Turn the ignition off. Disconnect the O2 Sensor harness connector Disconnect the PCM harness connector. <b>CAUTION: DO NOT PROBE THE PCM HARNESS CONNECTORS. PROBING THE PCM HARNESS CONNECTORS WILL DAMAGE THE PCM TERMINALS RESULTING IN POOR TERMINAL TO PIN CONNECTION. INSTALL MILLER SPECIAL TOOL #8815 TO PERFORM DIAGNOSIS.</b> Measure the resistance of the O2 Sensor Return circuit from the O2 Sensor harness connector to the appropriate terminal of special tool #8815. Is the resistance below 5.0 ohms?  Yes → NOTE: Before continuing, check the PCM harness connector terminals for corrosion, damage, or terminal push out. Repair as necessary. Replace and program the Powertrain Control Module in accordance with the Service Information. Perform POWERTRAIN VERIFICATION TEST VER - 5.  No → Repair the open in the O2 Sensor return circuit. Perform POWERTRAIN VERIFICATION TEST VER - 5.	All