PRODEMAND

YMMS: 2005 Chrysler Pacifica Limited
Engine: 3.5L Eng
VIN:

Feb 9, 2024
License:
Odometer:

Diagnostic Procedure

DIAGNOSTIC PROCEDURES CHART (P0131-O2 SENSOR 1/1 VOLTAGE LOW)

TEST	ACTION	APPLICABILITY
1	**NOTE:** *If one of the O2 Sensors Signal or Return circuits are shorted to ground, the DRBIII® will display all O2 Sensor voltage readings low. The O2 Sensor that is shorted to ground will display a voltage reading near or at 0 volts.* **NOTE:** *It is important to perform the diagnostics on the O2 Sensor that set the DTC.* **NOTE:** *After the repairs have been made, verify proper O2 Sensor operation. If all the O2 Sensor voltage readings have not returned to normal, follow the diagnostic procedure for the remaining O2 Sensors.* Start the engine. Allow the engine to reach normal operating temperature. With the DRBIII®, read the O2 Sensor voltage. Is the voltage below 1.5 volts? Yes --> Go To 2 No --> Refer to the INTERMITTENT CONDITION. Perform POWERTRAIN VERIFICATION TEST VER - 5.	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 above 4.8 volts?	All

	Yes --> Go To 3 No --> Go To 5	
3	Turn the ignition off. Disconnect the O2 Sensor harness connector. Ignition on, engine not running. Measure the voltage on the O2 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. Measure the resistance between ground and the O2 Return circuit in the O2 Sensor harness connector. Is the resistance below 100 ohms? Yes --> Repair the short to ground in the O2 Return circuit. Perform POWERTRAIN VERIFICATION TEST VER - 5. No -->**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.	All
5	Turn the ignition off. Disconnect the O2 Sensor harness connector. Disconnect the PCM harness connector. Measure the resistance between ground and the O2 Signal circuit in the O2 Sensor harness connector. Is the resistance below 100 ohms? Yes --> Repair the short to ground in the O2 Signal circuit. Perform POWERTRAIN VERIFICATION TEST VER - 5. No --> Go To 6	All
6	Turn the ignition off. Disconnect the O2 Sensor harness connector. Disconnect the PCM harness connector. Measure the resistance between the O2 Signal circuit and the O2 Return circuit in the O2 Sensor harness connector. Is the resistance below 100 ohms? Yes --> Repair the O2 Return circuit shorted to the O2 Signal circuit.	All

	Perform POWERTRAIN VERIFICATION TEST VER - 5. No --> Go To 7	
7	Turn the ignition off. Disconnect the O2 Sensor harness connector. Disconnect the PCM harness connector. Measure the resistance between the O2 Signal circuit and the Heater ground circuit in the O2 Sensor harness connector. Is the resistance below 100 ohms? Yes --> Repair the Heater Ground circuit shorted to the O2 Signal circuit. Perform POWERTRAIN VERIFICATION TEST VER - 5. No --> Go To 8	All
8	**NOTE:** *Before continuing, check the PCM harness connector terminals for corrosion, damage, or terminal push out. Repair as necessary.* If there are no possible causes remaining, view repair. Repair Replace and program the Powertrain Control Module in accordance with the Service Information. Perform POWERTRAIN VERIFICATION TEST VER - 5.	All