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2002 CHEVROLET Classic OEM Service and Repair Workshop Manual

Go to manual page

8. Select:Module Diagnostics
9. Select:Engine Control Module
10. Select:Configuration/Reset Functions
11. Select:Learn Functions
12. Select:Crankshaft Position Variation Learn
13. Follow the instructions on the scan tool.

    Verify the scan tool procedure was successful.

    - **If the procedure was not successful and first time here**

    1. Ignition/Vehicle » Off
    2. Verify the following conditions do not exist:

    - B26 Crankshaft Position Sensor&Reluctor Ring—Foreign material passing between the components/Incorrect air gap
    - Battery Voltage—Low
    - Crankshaft Bearing—Worn
    - Crankshaft—Excessive runout/Visible Damage
    - Reluctor Ring—Misaligned/Visible Damage
    - Signal circuit@B26 Crankshaft Position Sensor—Electromagnetic Interference
        - If a condition exists » Repair or replace as necessary
        - If no condition exists » Repeat step 8

    - **If the procedure was not successful and performed 4 times or less**

      Repeat step 12

    - **If the procedure was not successful and performed 5 times**

      Replace the component:K20 Engine Control Module

    - **If the procedure was successful**

14. All OK.

Repair Instructions

YOUR CURRENT VEHICLE

HO2S Heater Resistance Learned Values Reset

HO2S Heater Resistance Learned Values Reset

Diagnostic Instructions

- Perform the Diagnostic System Check prior to using this diagnostic procedure: Diagnostic System Check - Vehicle
- Review the description of Strategy Based Diagnosis: Strategy Based Diagnosis

Description

This procedure resets the control module learned values of the component/system:B52 Heated Oxygen Sensor—Resistance

When to Perform the Procedure

NOTE

Note

- This procedure is only required when the component is replaced for a mechanical issue with no DTC set.
- Failure to perform this procedure may result in poor system performance, DTCs being set, or customer dissatisfaction.

Perform this procedure when the following component has been serviced:B52 Heated Oxygen Sensor—Replaced

Conditions for Running the Procedure

- A/C Switch=Off

8. All OK.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair: Diagnostic Repair Verification

P0267, P0268, P0270, P0271, P0273, P0274, P0276, P0277, P0279, P0280, P0282, P0283, P0300–P0308, P0351–P0358, P0496, P0601, P0604, P0606, P060D, P0641, P0651, P0697, P06A3, P06D2, P1248, P1249, P124A, P124B, P1516, P16A0–P16A2, P2101, P2119, P2120, P2122, P2123, P2125, P2127, P2128, P2135, P2138, P2147, P2148, P2150, P2151, P2153, P2154, P2156, P2157, P216B, P216C, P216E, P216F, P217B, P217C, P217E, P217F, P2176, P2300, P2301, P2303, P2304, P2306, P2307, P2309, P2310, P2312, P2313, P2315, P2316, P2318, P2319, P2321, P2322 = Not set

- Ignition=On
- Vehicle Speed Sensor=0 km/h (0 MPH)

Reference Information

Scan Tool Reference

Control Module References

With Scan Tool

1. Ignition » On / Vehicle » In Service Mode
2. Select:Module Diagnostics
3. Select:Engine Control Module
4. Select:Configuration/Reset Functions
5. Select:Learn Functions
6. Select:Idle Learn
7. Follow the instructions on the scan tool.
8. Verify the scan tool parameter:Throttle Body Idle Air Flow Compensation=0%
    - **If greater than 0**

      Repeat step 1
    - **If 0**
9. Engine » Idling — At normal operating temperature
10. Verify the scan tool parameter:Engine Speed=−100 to +200 RPM of the Desired Idle Speed
    - **{Test failed 1 time(s)}If not in the specified range**

      1. Engine idling.—For greater than 3 min