

DTC P2228 [ZJ, Z6]

B3E010202200W01

| DTC P2228 | BARO sensor circuit low input |
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| DETECTION CONDITION <ul style="list-style-type: none"> The PCM monitors input voltage from the BARO sensor. If the input voltage at PCM terminal 2S is less than 1.7 V, the PCM determines that the BARO sensor circuit has a malfunction. Diagnostic support note This is a continuous monitor (CCM). The MIL illuminates if the PCM detects the above malfunction condition in the first drive cycle. PENDING CODE is available if the PCM detects the above malfunction condition. FREEZE FRAME DATA is available. The DTC is stored in the PCM memory. | <ul style="list-style-type: none"> BARO sensor malfunction Connector or terminal malfunction Open circuit in wiring harness between BARO sensor terminal C and PCM terminal 2W Short to GND in wiring harness between BARO sensor terminal C and PCM terminal 2W Open circuit in wiring harness between BARO sensor terminal B and PCM terminal 2S Short to GND in wiring harness between BARO sensor terminal B and PCM terminal 2S PCM malfunction |
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Diagnostic procedure

| STEP | INSPECTION | ACTION |
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| 1 | VERIFY FREEZE FRAME DATA HAS BEEN RECORDED <ul style="list-style-type: none"> Has FREEZE FRAME DATA been recorded? | Yes Go to the next step. |
| | | No Record the FREEZE FRAME DATA on the repair order, then go to the next step. |
| 2 | VERIFY RELATED REPAIR INFORMATION AVAILABILITY <ul style="list-style-type: none"> Verify related service repair information | Yes Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step. |

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| | availability. • Is any related repair information available? | No | Go to the next step. |
| 3 | INSPECT BARO SENSOR CONNECTOR FOR POOR CONNECTION • Turn the ignition switch off. • Disconnect the BARO sensor connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? | Yes | Repair or replace the terminal, then go to Step 8. |
| | | No | Go to the next step. |
| 4 | INSPECT BARO SENSOR CIRCUIT FOR SHORT TO GND • Turn the ignition switch off. • Inspect for continuity between the following terminals: - BARO sensor terminal C (wiring harness-side) and body GND - BARO sensor terminal B (wiring harness-side) and body GND • Is there continuity? | Yes | Repair or replace the wiring harness for a possible short to GND, then go to Step 8. |
| | | No | Go to the next step. |
| 5 | INSPECT BARO SENSOR • Inspect the BARO sensor. (See BAROMETRIC PRESSURE (BARO) SENSOR INSPECTION [ZJ, Z6].) • Is there any malfunction? | Yes | Replace the BARO sensor, then go to Step 8. |
| | | No | Go to the next step. |
| 6 | INSPECT PCM CONNECTOR FOR POOR CONNECTION • Turn the ignition switch off. • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction? | Yes | Repair or replace the terminal, then go to Step 8. |
| | | No | Go to the next step. |
| 7 | INSPECT BARO SENSOR CIRCUIT FOR OPEN CIRCUIT • Turn the ignition switch off. • Inspect for continuity between the following terminals: - BARO sensor terminal C (wiring harness-side) and PCM terminal 2W (wiring harness-side) - BARO sensor terminal B (wiring harness-side) and PCM terminal 2S (wiring harness-side) • Is there continuity? | Yes | Go to the next step. |
| | | No | Repair or replace the wiring harness for a possible open circuit, then go to the next step. |
| 8 | VERIFY TROUBLESHOOTING OF DTC P2228 COMPLETED • Make sure to reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the WDS or equivalent. • Start the engine. • Is the same DTC present? | Yes | Replace the PCM, then go to the next step. (See PCM REMOVAL/INSTALLATION [ZJ, Z6].) |
| | | No | Go to the next step. |
| 9 | VERIFY AFTER REPAIR PROCEDURE • Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [ZJ, Z6].) • Are any DTCs present? | Yes | Go to the applicable DTC inspection. (See DTC TABLE [ZJ, Z6].) |
| | | No | DTC troubleshooting completed. |