

DTC P0112 [ZJ, Z6]

B3E010200100W04

| DTC P0112 | IAT sensor circuit low input |
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| DETECTION CONDITION | <ul style="list-style-type: none"> The PCM monitors the IAT sensor signal at PCM terminal 2AQ. If the PCM detects that the IAT sensor voltage is less than 0.16 V, the PCM determines that the IAT sensor circuit has a malfunction. <p>Diagnostic support note</p> <ul style="list-style-type: none"> 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. |
| POSSIBLE CAUSE | <ul style="list-style-type: none"> IAT sensor malfunction Connector or terminal malfunction Short to ground in wiring harness between MAF/IAT sensor terminal D and PCM terminal 2AQ PCM malfunction |

Diagnostic procedure

| STEP | INSPECTION | ACTION |
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| 1 | VERIFY FREEZE FRAME DATA HAS BEEN RECORDED | Yes Go to the next step. |
| | | Record the FREEZE FRAME DATA on the repair |

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| | • Has FREEZE FRAME DATA been recorded? | No | order, then go to the next step. |
| 2 | VERIFY RELATED REPAIR INFORMATION AVAILABILITY • Verify related service repair information availability. • Is any related repair information available? | Yes | Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step. |
| | | No | Go to the next step. |
| 3 | INSPECT MAF/IAT SENSOR CONNECTOR FOR POOR CONNECTION • Turn the ignition switch off. • Disconnect the MAF/IAT 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 7. |
| | | No | Go to the next step. |
| 4 | INSPECT IAT SENSOR SIGNAL CIRCUIT FOR SHORT TO GND • Turn the ignition switch off. • Inspect for continuity between MAF/IAT sensor terminal D (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 7. |
| | | No | Go to the next step. |
| 5 | INSPECT IAT SENSOR • Inspect the IAT sensor. (See INTAKE AIR TEMPERATURE (IAT) SENSOR INSPECTION [ZJ, Z6].) • Is there any malfunction? | Yes | Replace the MAF/IAT sensor, then go to Step 7. (See MASS AIR FLOW (MAF)/INTAKE AIR TEMPERATURE (IAT) SENSOR REMOVAL/INSTALLATION [ZJ, Z6].) |
| | | 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 the next step. |
| | | No | Go to the next step. |
| 7 | VERIFY TROUBLESHOOTING OF DTC P0112 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. |
| 8 | 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. |