DTC P111A:00 [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

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| DTC P111A: 00 | Engine coolant temperature is high | | | |
|--|--|--|--|--|
| The engine coolant temperature is 122 °C {252 °F} or more. | | | | |
| | Diagnostic support note | | | |
| DETECTION • This is a continuous monitor (other). | | | | |
| CONDITION | The check engine light does not illuminate. | | | |
| | FREEZE FRAME DATA (Mode 2)/Snapshot data is not available. | | | |
| | • DTC is stored in the PCM memory. | | | |
| FAIL-SAFE FUNCTION | Limits intake air amount | | | |
| | Cooling system malfunction | | | |
| POSSIBLE | High engine speed condition continues | | | |
| CAUSE | • ECT sensor malfunction | | | |
| | PCM malfunction | | | |

| STEP | Diagnostic Procedure INSPECTION | | ACTION | |
|------|---|-----|--|--|
| 1 | VERIFY RELATED SERVICE INFORMATION AVAILABILITY • Verify related Service Information availability. | Yes | Perform repair or diagnosis according to the available Service Information. • If the vehicle is not repaired, go to the next step. | |
| | Is any related Service Information available? | No | Go to the next step. | |
| 2 | VERIFY RELATED PENDING CODE AND/OR DTC | Yes | Go to the applicable PENDING CODE or DTC inspection (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5]. | |
| | Switch the ignition off, then ON (engine off). Perform the Pending Trouble Code Access Procedure and DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Are any other PENDING CODEs and/or DTCs present? | No | Go to the next step. | |
| 3 | INSPECT EFFECT OF VEHICLE CONDITION | Yes | Go to the next step. | |
| | FOR MALFUNCTION | No | Go to Step 5. | |
| | Verify how the customer drives the vehicle by asking the customer the following: Engine speed is high and remains high for continuous long periods like when climbing a long steep grade. | | | |
| | Is the engine generating excessive heat when | | | |
| | driven? | | | |
| 4 | DETERMINE IF MALFUNCTION CAUSE IS OVERHEATING OR OTHER | Yes | Explain to the customer that the vehicle is normal. Go to Step 6. | |
| | Caution • While performing this step, always operate the vehicle in a safe and lawful manner. • When the M-MDS is used to observe monitor system status while driving, be sure to have another technician with you, or record the data in the M-MDS using the PID/DATA MONITOR AND RECORD capturing function and inspect later. • Access the ECT PID using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • Is the ECT PID value less than 122 °C {252 °F} | No | The cause of this concern could be from the cooling syste overheating. • Perform the symptom troubleshooting "NO.17 COOLING SYSTEM CONCERNS-OVERHEATING". (See NO.17 COOLING SYSTEM CONCERNS-OVERHEATING [SKYACTIV-G 2.0, SKYACTIV-G 2.5]. | |

| 0777 | INCOPERTION. | 4071011 | |
|------|--|-----------|--|
| STEP | INSPECTION | | ACTION |
| 5 | INSPECT ECT SENSOR Inspect the ECT sensor. (See ENGINE COOLANT TEMPERATURE (ECT) SENSOR INSPECTION [SKYACTIV-G | Yes | Replace the ECT sensor, then go to the next step. (See ENGINE COOLANT TEMPERATURE (ECT) SENSOR REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) |
| | 2.0, SKYACTIV-G 2.5].) • Is there any malfunction? | No | Go to the next step. |
| 6 | VERIFY DTC TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • Perform the Drive Mode 03 (Variable Valve Timing, A/F Sensor Heater, HO2S Heater, A/F Sensor, HO2S and TWC Repair Verification Drive Mode). (See OBD DRIVE MODE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • Is the same DTC present? | No | Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Go to the next step. Go to the next step. |
| 7 | • Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • Are any DTCs present? | Yes No | Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) DTC troubleshooting completed. |