

**Caution**

- Vehicle specifications differ depending on the vehicle identification number (VIN).

- Type A VIN:

- JM0 KE\*\*\*\*\* 100001—

- JM6 KE\*\*\*\*\* 100001—

- JM7 KE\*\*\*\*\* 100001—

- JM8 KE\*\*\*\*\* 100001—

- JMZ KE\*\*\*\*\* 100001—

- KE10\*\* 100001—

- Type B VIN:

- JM0 KE\*\*\*\*\* 200001—

- JM6 KE\*\*\*\*\* 200001—

- JM8 KE\*\*\*\*\* 200001—

- JMZ KE\*\*\*\*\* 200001—

- KE10\*\* 200001—

<b>DTC P117A:00</b>	<b>Engine oil temperature is high</b>
<b>DETECTION CONDITION</b>	<b>Type A VIN</b> <ul style="list-style-type: none"> <li>• With the transmission in 4th gear or lower gear, an engine speed of <b>6,100 rpm</b> continues for <b>6 min.</b></li> </ul> <b>Type B VIN</b> <ul style="list-style-type: none"> <li>• With the transmission in 5th gear or lower gear, an engine speed of <b>6,100 rpm</b> (SKYACTIV-G 2.0)/<b>5,800 rpm</b> (SKYACTIV-G 2.5) continues for <b>6 min.</b></li> </ul> <b>Diagnostic support note</b> <ul style="list-style-type: none"> <li>• This is a continuous monitor (other).</li> <li>• The check engine light does not illuminate.</li> <li>• FREEZE FRAME DATA (Mode 2)/Snapshot data is not available.</li> <li>• DTC is stored in the PCM memory.</li> </ul>
<b>FAIL-SAFE FUNCTION</b>	<ul style="list-style-type: none"> <li>• Limits intake air amount</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>• High engine speed condition continues</li> <li>• PCM malfunction</li> </ul>
<b>SYSTEM WIRING DIAGRAM</b>	Not applicable

**Diagnostic Procedure**

<b>STEP</b>	<b>INSPECTION</b>	<b>ACTION</b>
1	<b>VERIFY RELATED SERVICE INFORMATION AVAILABILITY</b> <ul style="list-style-type: none"> <li>• Verify related Service Information availability.</li> <li>• Is any related Service Information available?</li> </ul>	Yes Perform repair or diagnosis according to the available Service Information. • If the vehicle is not repaired, go to the next step.
		No Go to the next step.
2	<b>VERIFY RELATED PENDING CODE AND/OR DTC</b> <ul style="list-style-type: none"> <li>• Switch the ignition off, then ON (engine off).</li> <li>• Perform the Pending Trouble Code Access Procedure and DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li> <li>• Is the PENDING CODE/DTC P0335:00 also present?</li> </ul>	Yes Go to the applicable PENDING CODE or DTC inspection. (See DTC P0335:00 [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No Go to the next step.

STEP	INSPECTION		ACTION
3	<b>INSPECT EFFECT OF VEHICLE CONDITION FOR MALFUNCTION</b> <b>Type A VIN:</b> <ul style="list-style-type: none"> <li>Verify how the customer drives the vehicle by asking the customer the following:</li> <li>Does the engine speed exceed <b>6,100 rpm</b> for <b>6 min or more</b> while driving in 4th gear or lower gear?</li> </ul> <b>Type B VIN:</b> <ul style="list-style-type: none"> <li>Verify how the customer drives the vehicle by asking the customer the following:</li> <li>Does the engine speed exceed <b>6,100 rpm</b> (SKYACTIV-G 2.0)/<b>5,800 rpm</b> (SKYACTIV-G 2.5) for <b>6 min or more</b> while driving in 5th gear or lower gear?</li> </ul>	Yes	Type A VIN: <ul style="list-style-type: none"> <li>Explain to the customer that the vehicle is normal. (malfunction caused by continuous engine speed exceeding <b>6,100 rpm</b> for <b>6 min or more</b> while in 4th gear or lower gear)</li> <li>If there is a concern with customer's driving, provide the customer some pertinent advice (such as gear selection, how to use manual mode).</li> </ul> Type B VIN: <ul style="list-style-type: none"> <li>Explain to the customer that the vehicle is normal (performs control to protect the engine due to continuous engine speed exceeding <b>6,100 rpm</b> (SKYACTIV-G 2.0)/<b>5,800 rpm</b> (SKYACTIV-G 2.5) for <b>6 min or more</b> while in 5th gear or lower gear).</li> <li>If there is a concern with customer's driving, provide the customer some pertinent advice (such as gear selection, how to use manual mode).</li> </ul>
		No	Go to the next step.
4	<b>VERIFY DTC TROUBLESHOOTING COMPLETED</b> <ul style="list-style-type: none"> <li>Always reconnect all disconnected connectors.</li> <li>Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li> <li>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].)</li> <li>Is the same DTC present?</li> </ul>	Yes	Repeat the inspection from Step 1. <ul style="list-style-type: none"> <li>If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li> </ul> Go to the next step.
		No	Go to the next step.
5	<b>VERIFY AFTER REPAIR PROCEDURE</b> <ul style="list-style-type: none"> <li>Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li> <li>Are any DTCs present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No	DTC troubleshooting completed.