

**Caution**

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

- **Type A VIN:**  
 JM0 KE\*\*\*\*\* 100001—  
 JM6 KE\*\*\*\*\* 100001—  
 JM8 KE\*\*\*\*\* 100001—  
 JMZ KE\*\*\*\*\* 100001—
- **Type B VIN:**  
 JM0 KE\*\*\*\*\* 200001—  
 JM6 KE\*\*\*\*\* 200001—  
 JM8 KE\*\*\*\*\* 200001—  
 JMZ KE\*\*\*\*\* 200001—

<b>DTC P0667:00</b>	<b>Type A VIN</b> • ECU internal temperature sensor two-range/performance problem <b>Type B VIN</b> • ECU internal temperature sensor/performance problem
<b>DETECTION CONDITION</b>	<b>Type A VIN</b> • Under the following conditions, the difference between ECU internal temperatures of three ECU internal temperature sensors is <b>10 °C {18 °F} or more</b> : — Engine is running. — Soaked for <b>6 hours or more</b> . — No malfunction in ECU internal temperature sensor circuit <b>Type B VIN</b> • Under the following conditions, the difference between ECU internal temperatures of three ECU internal temperature sensors is <b>15 °C {59 °F} or more</b> : — Engine is running. — Soaked for <b>6 hours or more</b> . — No malfunction in ECU internal temperature sensor circuit <b>Diagnostic support note</b> • The check engine light illuminates if the TCM detects the above malfunction condition in two consecutive drive cycles or in one drive cycle while the DTC for the same malfunction has been stored in the TCM. • The automatic transaxle warning light illuminates if the TCM detects the above malfunction condition in two consecutive drive cycles or in one drive cycle while the DTC for the same malfunction has been stored in the TCM. • PENDING CODE is available. • FREEZE FRAME DATA is available. • DTC is stored in the TCM memory.
<b>FAIL-SAFE FUNCTION</b>	• Inhibits learning control. • Inhibits neutral idle control. • Inhibits i-stop control.
<b>POSSIBLE CAUSE</b>	• Control valve body malfunction — ECU internal temperature sensor (built-into TCM) malfunction
<b>SYSTEM WIRING DIAGRAM</b>	Not applicable

**Diagnostic procedure**

STEP	INSPECTION	ACTION
1	<b>VERIFY FREEZE FRAME DATA/SHOT DATA HAS BEEN RECORDED</b> • Has the freeze frame data/snapshot data been recorded on the repair order?	Yes Go to the next step. No Record the freeze frame data/snapshot data on the repair order, then go to the next step.

STEP	INSPECTION	ACTION	
2	<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. <ul style="list-style-type: none"> <li>• If the vehicle is not repaired, replace the control valve body. (See CONTROL VALVE BODY REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL].)</li> </ul> Go to the next step.
		No	Replace the control valve body, then go to the next step. (See CONTROL VALVE BODY REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL].)
3	<b>VERIFY DTC TROUBLESHOOTING COMPLETED</b> <ul style="list-style-type: none"> <li>• Clear the DTC using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [GW6A-EL, GW6AX-EL].)</li> <li>• Perform the following procedure to ensure that the DTC has been resolved:               <ol style="list-style-type: none"> <li>1. Soak for <b>6 hours or more</b>.</li> <li>2. Start the engine, and warm it up until the ATF temperature is <b>60 °C {140 °F} or more</b>, and the engine coolant temperature is <b>80 °C {176 °F} or more</b>.</li> </ol> </li> <li>• Perform the DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [GW6A-EL, GW6AX-EL].)</li> <li>• Are any DTCs present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [GW6A-EL, GW6AX-EL].)
		No	DTC troubleshooting completed.