

**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 P0666:00</b>	<b>Type A VIN</b> • ECU internal temperature sensor circuit(s) malfunction <b>Type B VIN</b> • ECU internal temperature sensor circuit malfunction
<b>DETECTION CONDITION</b>	<b>Type A VIN</b> • Under the following condition, there is malfunction in circuits of two or more ECU internal temperature sensors: — Battery voltage is <b>8 V or more</b> . • Under the following conditions, one ECU internal temperature sensor has malfunction, with difference in temperature between remaining two ECU internal temperature sensors being <b>10 °C {18 °F} or more</b> : — Battery voltage is <b>8 V or more</b> . — Soaked for <b>6 hours or more</b> . <b>Type B VIN</b> • Under the following condition, there is malfunction in circuit of ECU internal temperature sensor: — Battery voltage is <b>8 V or more</b> . <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 [FW6A-EL, FW6AX-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 [FW6A-EL, FW6AX-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 [FW6A-EL, FW6AX-EL].)</li> <li>• Perform the following procedure to ensure that the DTC has been resolved:               <ol style="list-style-type: none"> <li>1. Start the engine.</li> </ol> </li> <li>• Perform the DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FW6A-EL, FW6AX-EL].)</li> <li>• Are any DTCs present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [FW6A-EL, FW6AX-EL].)
		No	DTC troubleshooting completed.