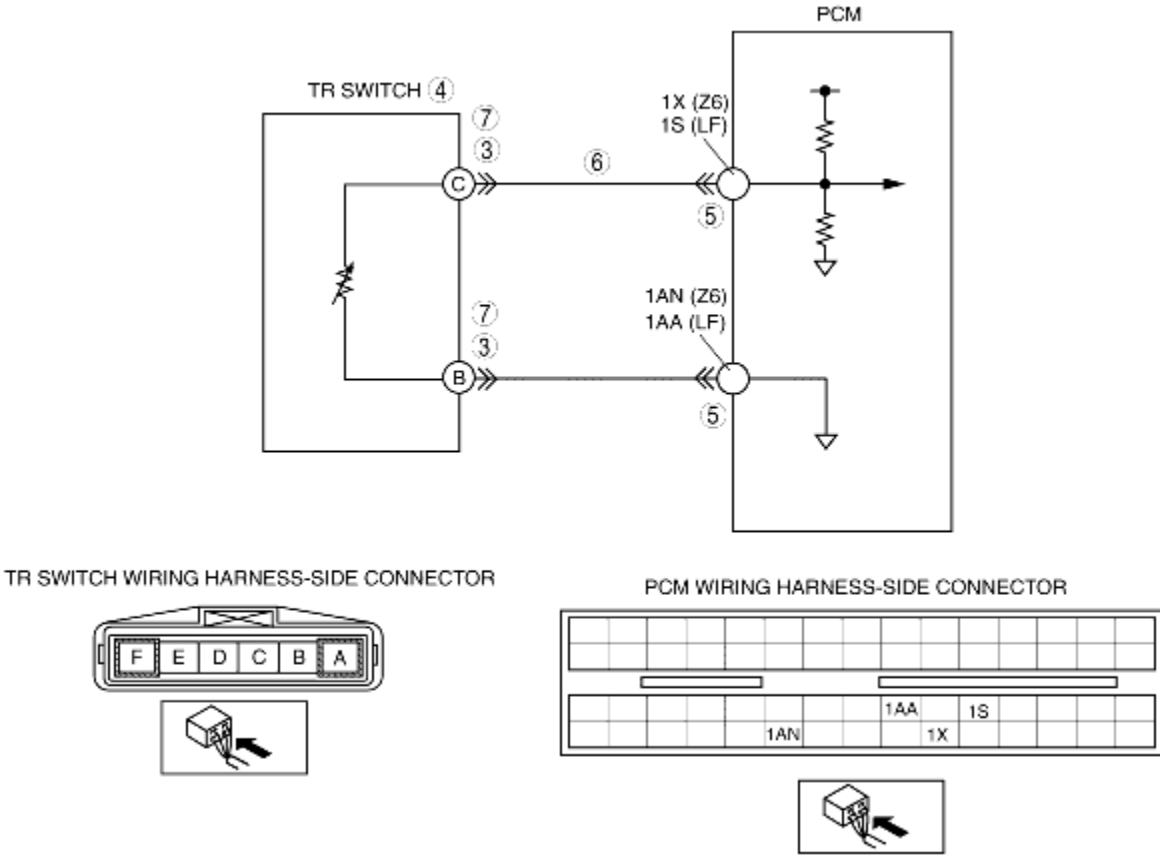


## DTC P0707 [FN4A-EL]

B3E050219090W08

| DTC P0707  | Transaxle range (TR) switch circuit low input  |
|--|--|
| <b>DETECTION CONDITION</b>   | <ul style="list-style-type: none"> <li>When all conditions below are satisfied and <b>100 s or more</b> have passed.               <ul style="list-style-type: none"> <li>Vehicle speed <b>20 km/h {12 mph} or more</b></li> <li>Engine speed <b>530 rpm or more</b></li> <li>Voltage at PCM terminal 1X (Z6)/1S (LF) <b>below 0.5 V</b></li> </ul> </li> </ul> <p><b>Diagnostic support note:</b></p> <ul style="list-style-type: none"> <li>This is a continuous monitor (CCM).</li> <li>The MIL illuminates if the PCM detects the above malfunction condition during the first drive cycle.</li> <li>A PENDING CODE is not available.</li> <li>FREEZE FRAME DATA is available.</li> <li>The AT warning light illuminates.</li> <li>The DTC is stored in the PCM memory.</li> </ul> |
| <b>POSSIBLE CAUSE</b>  | <ul style="list-style-type: none"> <li>TR switch malfunction</li> <li>Short to ground in wiring harness between TR switch terminal C and PCM terminal 1X (Z6)/1S (LF)</li> <li>TR switch signal and TR switch ground circuits shorted each other</li> <li>PCM malfunction</li> </ul>   |
|  |  |

### Diagnostic procedure

| STEP | INSPECTION | ACTION |
|------|------------|--------|
|      |            |        |

|   |  |     |  |
|---|--|-----|--|
| 1 | <b>VERIFY FREEZE FRAME DATA HAS BEEN RECORDED</b><br><br>• Has the FREEZE FRAME DATA been recorded?  | Yes | Go to the next step.   |
|   |  | No  | Record the FREEZE FRAME DATA on the repair order, then go to the next step.  |
| 2 | <b>VERIFY RELATED REPAIR INFORMATION AVAILABILITY</b><br><br>• Verify related Service Bulletins and/or on-line repair information availability.<br>• Is any related repair information available?  | Yes | Perform repair or diagnosis according to the available repair information.<br>• If the vehicle is not repaired, go to the next step.                             |
|   |  | No  | Go to the next step.   |
| 3 | <b>INSPECT TR SWITCH CONNECTOR</b><br><br>• Turn the ignition switch to the LOCK position.<br>• Disconnect the TR switch connector.<br>• Inspect for poor connection at TR switch terminals B and C (part-side) (such as damaged/pulled-out pins, corrosion)<br>• Are TR switch terminals normal?  | Yes | Go to the next step.   |
|   |  | No  | Repair terminals or replace the TR switch, then go to Step 8.<br>(See <a href="#">TRANSAXLE RANGE (TR) SWITCH REMOVAL/INSTALLATION.</a> )                        |
| 4 | <b>INSPECT TR SWITCH</b><br><br>• Turn the ignition switch to the LOCK position.<br>• Disconnect the TR switch connector.<br>• Inspect for resistance between TR switch terminals B and C (part-side).<br>• Is the resistance normal?<br>(See <a href="#">TRANSAXLE RANGE (TR) SWITCH INSPECTION.</a> )  | Yes | Go to the next step.   |
|   |  | No  | Replace the TR switch, then go to Step 8.<br>(See <a href="#">TRANSAXLE RANGE (TR) SWITCH REMOVAL/INSTALLATION.</a> )  |
| 5 | <b>INSPECT PCM CONNECTOR FOR POOR CONNECTION</b><br><br>• Disconnect the PCM connector.<br>• Inspect for poor connection at terminals 1X (Z6)/1S (LF) and 1AN(Z6)/1AA (LF) (such as damaged/pulled-out pins, corrosion).<br>• Is there any malfunction?  | Yes | Repair or replace the terminal, then go to Step 8.   |
|   |  | No  | Go to the next step.   |
| 6 | <b>INSPECT TR SWITCH SIGNAL CIRCUIT FOR SHORT TO GROUND</b><br><br>• Inspect for continuity between TR switch terminal C (wiring harness-side) and body ground.<br>• Is there continuity?  | Yes | Repair or replace the wiring harness for short to ground, then go to Step 8.   |
|   |  | No  | Go to the next step.   |
| 7 | <b>INSPECT TR SWITCH CIRCUIT FOR SHORT CIRCUIT</b><br><br>• Inspect for continuity between TR switch terminals B and C (wiring harness-side).<br>• Is there continuity?  | Yes | Repair or replace the wiring harness for short circuit, then go to the next step.  |
|   |  | No  | Go to the next step.   |
| 8 | <b>VERIFY TROUBLESHOOTING OF DTC P0707 COMPLETED</b><br><br>• Make sure to reconnect all the disconnected connectors.<br>• Clear the DTC from the memory using the WDS or equivalent.<br>• Drive the vehicle for <b>100 s or more</b> under the following conditions:<br><br>- Engine speed (RPM PID): <b>530 rpm or more</b><br>- Vehicle speed (VSS PID): <b>20 km/h {12</b> | Yes | Replace the PCM, then go to the next step.<br>(See <a href="#">PCM REMOVAL/INSTALLATION [ZJ, Z6].</a> )<br>(See <a href="#">PCM REMOVAL/INSTALLATION [LF].</a> ) |
|   |  |     |  |

|   |  |     |  |
|---|--|-----|--|
|   | <b>mph} or more</b>  | No  | No concern is detected. Go to the next step. |
|   | • Is the PENDING CODE present?   |     |  |
| 9 | <b>VERIFY AFTER REPAIR PROCEDURE</b><br>• Perform the "After Repair Procedure".<br>(See <a href="#">AFTER REPAIR PROCEDURE [FN4A-EL]</a> .)<br>• Are any DTCs present? | Yes | Go to the applicable DTC inspection.         |
|   |  | No  | DTC troubleshooting completed.               |
|   |  |     |  |