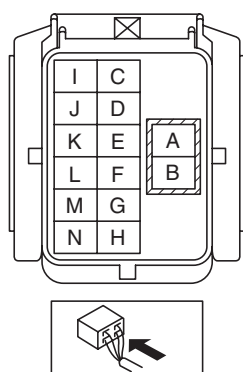
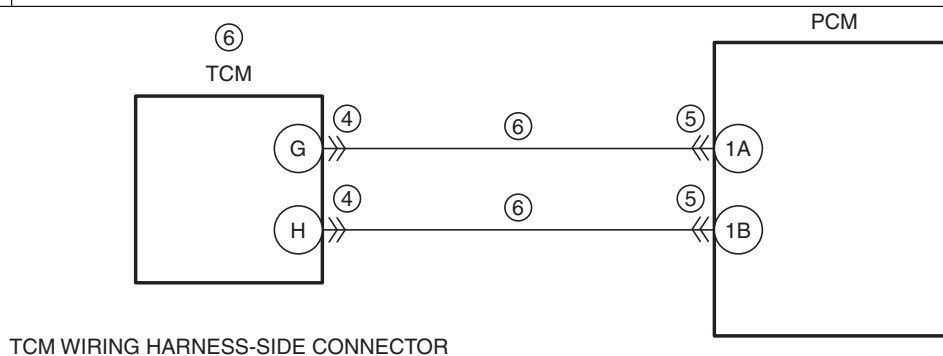


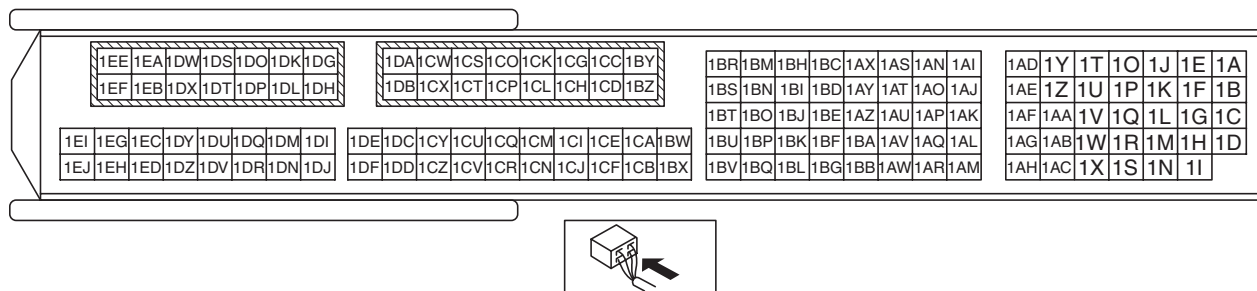
# DTC U0302:00 [SKYACTIV-G 2.0]

id0102h1901000

|                                |   |
|--------------------------------|---|
| <b>DTC<br/>U0302:00</b>        | <b>TCM processor error</b>  |
| <b>DETECTION<br/>CONDITION</b> | <ul style="list-style-type: none"> <li>When any of the following conditions is met: <ul style="list-style-type: none"> <li>CAN communication line between TCM and PCM malfunction</li> <li>TCM internal malfunction</li> </ul> </li> </ul> <p><b>Diagnostic support note</b></p> <ul style="list-style-type: none"> <li>This is a continuous monitor (other).</li> <li>The check engine light illuminates if the PCM detects the above malfunction condition during the first drive cycle.</li> <li>FREEZE FRAME DATA (Mode 2)/Snapshot data is available.</li> <li>The DTC is stored in the PCM memory.</li> </ul> |
| <b>FAIL-SAFE<br/>FUNCTION</b>  | —   |
| <b>POSSIBLE<br/>CAUSE</b>      | <ul style="list-style-type: none"> <li>TCM connector or terminals malfunction</li> <li>PCM connector or terminals malfunction</li> <li>CAN communication line between PCM and TCM (local CAN between PCM and TCM) malfunction</li> <li>TCM DTC is stored.</li> <li>PCM malfunction</li> <li>TCM malfunction</li> </ul>  |



PCM WIRING HARNESS-SIDE CONNECTOR



## Diagnostic Procedure

| STEP | INSPECTION  |     | ACTION   |
|------|---|-----|--|
| 1    | <b>VERIFY FREEZE FRAME DATA (MODE 2)/<br/>SNAPSHOT DATA AND DIAGNOSTIC<br/>MONITORING TEST RESULTS HAVE BEEN<br/>RECORDED</b> <ul style="list-style-type: none"> <li>Have the FREEZE FRAME DATA (Mode 2)/ snapshot data and DIAGNOSTIC MONITORING TEST RESULTS (other related) been recorded?</li> </ul>  | Yes | Go to the next step.   |
|      |   | No  | Record the FREEZE FRAME DATA (Mode 2)/snapshot data and DIAGNOSTIC MONITORING TEST RESULTS on the repair order, then go to the next step.  |
| 2    | <b>VERIFY RELATED SERVICE INFORMATION<br/>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.<br>• If the vehicle is not repaired, go to the next step.  |
|      |   | No  | Go to the next step.   |
| 3    | <b>VERIFY RELATED PENDING CODE AND/OR<br/>DTC</b> <ul style="list-style-type: none"> <li>Switch the ignition to off, then to 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].)</li> <li>Are any other PENDING CODEs and/or DTCs present?</li> </ul>                                   | Yes | Go to the applicable PENDING CODE or DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0].)   |
|      |   | No  | Go to the next step.   |
| 4    | <b>INSPECT TCM CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Switch the ignition to off.</li> <li>Disconnect the TCM connector.</li> <li>Inspect for poor connection (such as damaged/ pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul>  | Yes | Repair or replace the connector and/or terminals, then go to Step 7.   |
|      |   | No  | Go to the next step.   |
| 5    | <b>INSPECT PCM CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Disconnect the PCM connector.</li> <li>Inspect for poor connection (such as damaged/ pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul>   | Yes | Repair or replace the connector and/or terminals, then go to Step 7.   |
|      |   | No  | Go to the next step.   |
| 6    | <b>CONFIRM TCM DTC</b> <ul style="list-style-type: none"> <li>Perform the TCM 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 | DTC U0074:00 or U0115:00 is displayed:<br>• CAN communication line can be considered the cause.<br>— Repair or replace the wiring harness between PCM and TCM, then go to the next step.<br>DTC other than U0074:00 and U0115:00 is displayed:<br>• Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [FW6A-EL, FW6AX-EL].) |
|      |   | No  | TCM can be considered the cause.<br>• Replace the control valve body, then go to the next step. (See CONTROL VALVE BODY REMOVAL/ INSTALLATION [FW6A-EL, FW6AX-EL].)  |
| 7    | <b>VERIFY DTC TROUBLESHOOTING<br/>COMPLETED</b> <ul style="list-style-type: none"> <li>Make sure to 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].)</li> <li>Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-G 2.0].)</li> <li>Is the same DTC present?</li> </ul> | Yes | Repeat the inspection from Step 1.<br>• If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0].)<br>Go to the next step.   |
|      |   | No  | Go to the next step.   |
| 8    | <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].)</li> <li>Are any DTCs present?</li> </ul>  | Yes | Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0].)   |
|      |   | No  | DTC troubleshooting completed.   |