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## 2012 MAZDA MX-5 / Miata OEM Service and Repair Workshop Manual

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| DTC No.  | Check engine light | Automatic transaxle warning light/Automatic transaxle warning indication | Description                                                    | Fail-safe function | Drive cycle | Self test type*1 | Memory function | Page                                                                                            |
|----------|--------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|--------------------|-------------|------------------|-----------------|-------------------------------------------------------------------------------------------------|
| U0121:00 | Illumination       | –                                                                        | Communication error to DSC HU/CM                               | ×                  | 1           | C, O             | ×               | (See DTC U0073:00, U0100:00, U0121:00, U0131:00, U0155:00, U0214:00 [TCM (FW6A-EL, FW6AX-EL)].) |
| U0131:00 | –                  | –                                                                        | Communication error to EPS control module                      | ×                  | 1           | C, O             | ×               |                                                                                                 |
| U0155:00 | Illumination       | –                                                                        | Communication error to instrument cluster                      | ×                  | 1           | C, O             | ×               |                                                                                                 |
| U0214:00 | –                  | –                                                                        | Communication error to start stop unit                         | ×                  | 1           | C, O             | ×               |                                                                                                 |
| U0442:00 | –                  | –                                                                        | Invalid data received from PCM (local CAN between TCM and PCM) | ×                  | 1           | C, O             | ×               | (See DTC U0442:00 [TCM (FW6A-EL, FW6AX-EL)].)                                                   |

\*1 :C: CMDTC self test, O: KOEO self test

DTC P0715:00 [TCM (GW6A-EL, GW6AX-EL)]

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DTC P0715:00          | Turbine/input shaft speed sensor/sensor output range malfunction                                                                                                                                                                                                                                                                                                                                  |
| DETECTION CONDITION   | <ul style="list-style-type: none"><li>• Under the following conditions, the difference between engine speed signal and turbine/input shaft speed signal is 400 rpm or more for 1 s:<ul style="list-style-type: none"><li>— Engine is running.</li><li>— Turbine/input shaft speed sensor is 9,000 rpm or less.</li><li>— The gear shift position is in the neutral condition.</li></ul></li></ul> |
| FAIL-SAFE FUNCTION    | <ul style="list-style-type: none"><li>• Set to TCC control.</li><li>• Inhibits learning control.</li><li>• Inhibits manual mode.</li><li>• Inhibits neutral idle control.</li><li>• Inhibits AAS.</li><li>• Inhibits 5GR and 6GR.</li><li>• Inhibits shift down when the accelerator pedal is depressed.</li></ul>                                                                                |
| POSSIBLE CAUSE        | <ul style="list-style-type: none"><li>• Turbine/input shaft speed sensor malfunction</li></ul>                                                                                                                                                                                                                                                                                                    |
| SYSTEM WIRING DIAGRAM | Not applicable                                                                                                                                                                                                                                                                                                                                                                                    |

Diagnostic procedure

| STEP | INSPECTION                                                                                                                                                                                                                                                                                                 |                              | ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <p><b>RECORD VEHICLE STATUS WHEN DTC WAS DETECTED TO UTILIZE WITH REPEATABILITY VERIFICATION</b></p> <p><b>Note</b></p> <ul style="list-style-type: none"><li>• Recording can be facilitated using the screen capture of the PC function.</li><li>• Record the freeze frame data/snap shot data.</li></ul> | –                            | Go to the next step.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2    | <p><b>VERIFY RELATED REPAIR INFORMATION AVAILABILITY</b></p> <ul style="list-style-type: none"><li>• Verify related Service Bulletins and/or on-line repair information availability.</li><li>• Is any related repair information available?</li></ul>                                                     | <div>Yes</div> <div>No</div> | <p>Perform repair or diagnosis according to the available repair information.</p> <ul style="list-style-type: none"><li>• If the vehicle is not repaired, replace the control valve body. (See <b>CONTROL VALVE BODY REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL].</b>)</li></ul> <p>Go to the next step.</p> <p>Replace the control valve body, then go to the next step.</p> <p>(See <b>CONTROL VALVE BODY REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL].</b>)</p> |

| STEP | INSPECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     | ACTION                                                                                                                                                                                                                                                                                        |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5    | <b>VERIFY RELATED REPAIR INFORMATION AVAILABILITY</b> <ul style="list-style-type: none"> <li>• Verify related Service Bulletins and/or on-line repair information availability.</li> <li>• Is any related repair information available?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes | Perform repair or diagnosis according to the available repair information. <ul style="list-style-type: none"> <li>• If the vehicle is not repaired, replace the control valve body. (See <b>CONTROL VALVE BODY REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL]</b>.)</li> </ul> Go to the next step. |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No  | Replace the control valve body, then go to the next step.           (See <b>CONTROL VALVE BODY REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL]</b> .)                                                                                                                                                |
| 6    | <b>VERIFY DTC TROUBLESHOOTING COMPLETED</b> <ul style="list-style-type: none"> <li>• Clear the DTC using the M-MDS. (See <b>ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [TCM (GW6A-EL, GW6AX-EL)]</b>.)</li> <li>• Perform the following procedure to ensure that the DTC has been resolved:               <ol style="list-style-type: none"> <li>1. Drive the vehicle for 1 s or more under the following condition:                   <ul style="list-style-type: none"> <li>• Vehicle speed: 30 km/h {19 mph} or more</li> </ul> </li> </ol> </li> <li>• Perform the DTC inspection using the M-MDS. (See <b>ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [TCM (GW6A-EL, GW6AX-EL)]</b>.)</li> <li>• Are any DTCs present?</li> </ul> | Yes | Go to the applicable DTC inspection.           (See <b>ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [TCM (GW6A-EL, GW6AX-EL)]</b> .)                                                                                                                                                                  |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No  | DTC troubleshooting completed.                                                                                                                                                                                                                                                                |

DTC P0732:00 [TCM (GW6A-EL, GW6AX-EL)]

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DTC P0732:00          | 2GR incorrect ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| DETECTION CONDITION   | <ul style="list-style-type: none"><li>• In D position, 2GR, the following phenomenon occurs:<ul style="list-style-type: none"><li>— There is difference between turbine/input shaft speed and output shaft speed sensor speed for 230 to 1,980 ms (varies with ATF temperature and ECT) during shift-up.</li><li>— There is difference between turbine/input shaft speed and output shaft speed sensor speed for 1,500 to 3,900 ms (varies with ATF temperature) while driving without shifting.</li></ul></li></ul> |
| FAIL-SAFE FUNCTION    | <ul style="list-style-type: none"><li>• Inhibits malfunctioning gear.</li><li>• Limits engine torque.</li><li>• Inhibits learning control.</li><li>• Inhibits manual mode.</li><li>• Inhibits neutral idle control.</li><li>• Inhibits AAS.</li></ul>                                                                                                                                                                                                                                                                |
| POSSIBLE CAUSE        | <ul style="list-style-type: none"><li>• ATF is less than specified value</li><li>• Clutch burnt</li><li>• Shift solenoid malfunction</li><li>• ATF leakage from clutch circuit</li><li>• Control valve body malfunction</li></ul>                                                                                                                                                                                                                                                                                    |
| SYSTEM WIRING DIAGRAM | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

Diagnostic procedure

| STEP | INSPECTION                                                                                                                                                                                                                                                                                                                                                | ACTION                                                                                                                                                           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <b>VERIFY DTC OUTPUT STATUS</b> <ul style="list-style-type: none"><li>• Are any the following DTCs displayed?<ul style="list-style-type: none"><li>— P0746:00,</li><li>P0751:00, P0752:00,</li><li>P0756:00, P0757:00,</li><li>P0761:00, P0762:00,</li><li>P0766:00, P0767:00,</li><li>P0771:00, P0772:00,</li><li>P1738:00, P1784:00</li></ul></li></ul> | Yes<br><br>Go to the applicable DTC inspection.<br>(See <b>ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [TCM (GW6A-EL, GW6AX-EL)]</b> .)                                 |
|      |                                                                                                                                                                                                                                                                                                                                                           | No<br><br>Go to the next step.                                                                                                                                   |
| 2    | <b>INSPECT ATF LEVEL</b> <ul style="list-style-type: none"><li>• Inspect the ATF level. (See <b>AUTOMATIC TRANSAXLE FLUID (ATF) INSPECTION [GW6A-EL, GW6AX-EL]</b>.)</li><li>• Is there any malfunction?</li></ul>                                                                                                                                        | Yes<br><br>Adjust the ATF level to the specification, then go to the next step.<br>(See <b>AUTOMATIC TRANSAXLE FLUID (ATF) ADJUSTMENT [GW6A-EL, GW6AX-EL]</b> .) |
|      |                                                                                                                                                                                                                                                                                                                                                           | No<br><br>Go to the next step.                                                                                                                                   |

| STEP | INSPECTION                                                                                                                                                                                                                                                           |     | ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3    | <b>PERFORM ON-BOARD DIAGNOSTIC TEST TO SPECIFY MALFUNCTIONING PART</b> <ul style="list-style-type: none"><li>• Perform the on-board diagnostic test. (See <b>ON-BOARD DIAGNOSTIC TEST MODE [TCM (GW6A-EL, GW6AX-EL)]</b>.)</li><li>• Are any DTCs present?</li></ul> | Yes | Go to the applicable DTC inspection.<br>(See <b>ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [TCM (GW6A-EL, GW6AX-EL)]</b> .)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|      |                                                                                                                                                                                                                                                                      | No  | ATF amount in Step 2 is correct: <ul style="list-style-type: none"><li>• Replace the automatic transaxle. (See <b>AUTOMATIC TRANSAXLE REMOVAL/INSTALLATION [GW6A-EL (SKYACTIV-G 2.5T)]</b>.) (See <b>AUTOMATIC TRANSAXLE REMOVAL/INSTALLATION [GW6A-EL (SKYACTIV-D 2.2)]</b>.) (See <b>AUTOMATIC TRANSAXLE REMOVAL/INSTALLATION [GW6AX-EL (SKYACTIV-G 2.5T)]</b>.) (See <b>AUTOMATIC TRANSAXLE REMOVAL/INSTALLATION [GW6AX-EL (SKYACTIV-D 2.2)]</b>.)</li></ul> ATF amount adjusted in Step 2: <ul style="list-style-type: none"><li>• Drive the vehicle to check it, and if there is no problem then the DTC troubleshooting is complete.</li></ul> |

Sample

# DTC P0741:00 [TCM (GW6A-EL, GW6AX-EL)]

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id0502o981820

### Caution

- Because the clutch in the automatic transaxle may be damaged, always replace the automatic transaxle even if a pending code (does not recur) has been detected.

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DTC P0741:00          | TCC control solenoid stuck off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| DETECTION CONDITION   | <ul style="list-style-type: none"><li>• Under the following conditions, difference in slip amount over 5 s compared to target slip amount is 200 rpm or more, and TCC feedback hydraulic pressure is 200 kPa {2.04 kgf/cm<sup>2</sup>, 29.0 psi} or more occurs:<ul style="list-style-type: none"><li>— Selector lever position is D position.</li><li>— No electrical malfunction in TCC control solenoid</li><li>— During TCC or TCC feedback</li><li>— There is no difference between vehicle speed signal from DSC HU/CM and output shaft speed sensor signal.</li><li>— Engine is running.</li><li>— ATF temperature is -25 °C {-13 °F} or more.</li><li>— Turbine/input shaft speed sensor and output shaft speed sensor DTC is not recorded.</li></ul></li></ul> |
| FAIL-SAFE FUNCTION    | <ul style="list-style-type: none"><li>• Inhibits TCC control.</li><li>• Inhibits learning control.</li><li>• Inhibits manual mode.</li><li>• Inhibits neutral idle control.</li><li>• Inhibits AAS.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| POSSIBLE CAUSE        | <ul style="list-style-type: none"><li>• TCC control solenoid malfunction</li><li>• ATF leakage from clutch circuit</li><li>• TCC clutch burnt</li><li>• Control valve body malfunction</li><li>• Pressure control solenoid malfunction</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| SYSTEM WIRING DIAGRAM | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### Diagnostic procedure

| STEP | INSPECTION                                                                                                                                                                                                                                                                                   |   | ACTION               |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------|
| 1    | <p>RECORD VEHICLE STATUS WHEN DTC WAS DETECTED TO UTILIZE WITH REPEATABILITY VERIFICATION</p> <p>Note</p> <ul style="list-style-type: none"><li>• Recording can be facilitated using the screen capture of the PC function.</li><li>• Record the freeze frame data/snap shot data.</li></ul> | — | Go to the next step. |

| STEP | INSPECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3    | <b>VERIFY RELATED REPAIR INFORMATION AVAILABILITY</b> <ul style="list-style-type: none"> <li>Verify related Service Bulletins and/or on-line repair information availability.</li> <li>Is any related repair information available?</li> </ul>                                                                                                                                                                                                                                                                                                                                       | Yes | Perform repair or diagnosis according to the available repair information. <ul style="list-style-type: none"> <li>If the vehicle is not repaired, go to the next step.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No  | Go to the next step.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 4    | <b>INSPECT ATF LEVEL</b> <ul style="list-style-type: none"> <li>Inspect the ATF level. (See <b>AUTOMATIC TRANSAXLE FLUID (ATF) INSPECTION [GW6A-EL, GW6AX-EL].</b>)</li> <li>Is there any malfunction?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                    | Yes | Adjust the ATF level to the specification, then go to the next step. (See <b>AUTOMATIC TRANSAXLE FLUID (ATF) ADJUSTMENT [GW6A-EL, GW6AX-EL].</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No  | Replace the control valve body, then go to the next step. (See <b>CONTROL VALVE BODY REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL].</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5    | <b>PERFORM ON-BOARD DIAGNOSTIC TEST</b> <ul style="list-style-type: none"> <li>Perform the following procedure to ensure that the DTC has been resolved:               <ol style="list-style-type: none"> <li>Start the engine.</li> <li>Verify that the ATF temperature is 55 °C {131 °F} or more.</li> </ol> </li> <li>Perform the on-board diagnostic test. (See <b>ON-BOARD DIAGNOSTIC TEST MODE [TCM (GW6A-EL, GW6AX-EL)].</b>)</li> <li>Are any the following DTCs displayed?               <ul style="list-style-type: none"> <li>— P0751:00, P0843:00</li> </ul> </li> </ul> | Yes | ATF amount in Step 4 is correct: <ul style="list-style-type: none"> <li>Replace the automatic transaxle, then drive the vehicle to check it, and if there is no problem then the DTC troubleshooting is complete. (See <b>AUTOMATIC TRANSAXLE REMOVAL/INSTALLATION [GW6A-EL (SKYACTIV-G 2.5T)].</b>) (See <b>AUTOMATIC TRANSAXLE REMOVAL/INSTALLATION [GW6A-EL (SKYACTIV-D 2.2)].</b>) (See <b>AUTOMATIC TRANSAXLE REMOVAL/INSTALLATION [GW6AX-EL (SKYACTIV-G 2.5T)].</b>) (See <b>AUTOMATIC TRANSAXLE REMOVAL/INSTALLATION [GW6AX-EL (SKYACTIV-D 2.2)].</b>)</li> </ul> ATF amount adjusted in Step 4: <ul style="list-style-type: none"> <li>Replace the control valve body, then go to the next step. (See <b>CONTROL VALVE BODY REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL].</b>)</li> </ul> |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No  | No DTCs are displayed: <ul style="list-style-type: none"> <li>Drive the vehicle to check it, and if there is no problem then the DTC troubleshooting is complete.</li> </ul> If a DTC other than the one indicated on the left is displayed: <ul style="list-style-type: none"> <li>Go to the applicable DTC inspection. (See <b>ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [TCM (GW6A-EL, GW6AX-EL)]</b>)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                               |
| 6    | <b>RE-PERFORM ON-BOARD DIAGNOSTIC TEST</b> <ul style="list-style-type: none"> <li>Perform the following procedure to ensure that the DTC has been resolved:               <ol style="list-style-type: none"> <li>Start the engine.</li> <li>Verify that the ATF temperature is 55 °C {131 °F} or more.</li> </ol> </li> <li>Perform the on-board diagnostic test. (See <b>ON-BOARD DIAGNOSTIC TEST MODE [TCM (GW6A-EL, GW6AX-EL)].</b>)</li> <li>Are any DTCs present?</li> </ul>                                                                                                    | Yes | Go to the applicable DTC inspection. (See <b>ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [TCM (GW6A-EL, GW6AX-EL)].</b> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No  | DTC troubleshooting completed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

| STEP | INSPECTION                                                                                                                                                                                                                                                                                                                                                                                                        |     | ACTION                                                                                                                                                                                                                                                                                                                                                                                                              |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4    | <b>PERFORM ON-BOARD DIAGNOSTIC TEST</b><br>• Perform the following procedure to ensure that the DTC has been resolved: <ol style="list-style-type: none"> <li>1. Start the engine.</li> <li>2. Verify that the ATF temperature is 55 °C {131 °F} or more.</li> </ol> • Perform the on-board diagnostic test. (See <b>ON-BOARD DIAGNOSTIC TEST MODE [TCM (GW6A-EL, GW6AX-EL)]</b> .)<br>• Are P0752:00 present?    | Yes | Replace the control valve body, then go to the next step.<br>(See <b>CONTROL VALVE BODY REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL]</b> )                                                                                                                                                                                                                                                                              |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                   | No  | No DTCs are displayed: <ul style="list-style-type: none"> <li>• Drive the vehicle to check it, and if there is no problem then the DTC troubleshooting is complete.</li> </ul> If a DTC other than the one indicated on the left is displayed: <ul style="list-style-type: none"> <li>• Go to the applicable DTC inspection. (See <b>ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [TCM (GW6A-EL, GW6AX-EL)]</b>)</li> </ul> |
| 5    | <b>RE-PERFORM ON-BOARD DIAGNOSTIC TEST</b><br>• Perform the following procedure to ensure that the DTC has been resolved: <ol style="list-style-type: none"> <li>1. Start the engine.</li> <li>2. Verify that the ATF temperature is 55 °C {131 °F} or more.</li> </ol> • Perform the on-board diagnostic test. (See <b>ON-BOARD DIAGNOSTIC TEST MODE [TCM (GW6A-EL, GW6AX-EL)]</b> .)<br>• Are any DTCs present? | Yes | Go to the applicable DTC inspection.<br>(See <b>ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [TCM (GW6A-EL, GW6AX-EL)]</b> .)                                                                                                                                                                                                                                                                                               |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                   | No  | DTC troubleshooting completed.                                                                                                                                                                                                                                                                                                                                                                                      |

DTC P0756:00 [TCM (GW6A-EL, GW6AX-EL)]

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DTC P0756:00          | Shift solenoid No.2 stuck off                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| DETECTION CONDITION   | <div><div>• Under the following conditions, shift solenoid No.2 stuck-off detected by combination of gear ratio malfunction and oil pressure switch pattern malfunction:</div><div><div>— Engine is running.</div><div>— ATF temperature is 20 °C {68 °F} or more.</div><div>— There is no difference between vehicle speed signal from DSC HU/CM and output shaft speed sensor signal.</div><div>— Turbine/input shaft speed sensor and output shaft speed sensor DTC is not recorded.</div></div></div> |
| FAIL-SAFE FUNCTION    | <div><div>• Inhibits malfunctioning gear.</div><div>• Limits engine torque.</div><div>• Inhibits learning control.</div><div>• Inhibits manual mode.</div><div>• Inhibits neutral idle control.</div><div>• Inhibits AAS.</div></div>                                                                                                                                                                                                                                                                     |
| POSSIBLE CAUSE        | <div><div>• ATF is less than specified value</div><div>• Shift solenoid No.2 malfunction</div></div>                                                                                                                                                                                                                                                                                                                                                                                                      |
| SYSTEM WIRING DIAGRAM | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Diagnostic procedure

| STEP | INSPECTION                                                                                                                                                                                                                                                                            | ACTION                                                                                                                  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 1    | <div><div>VERIFY DTC OUTPUT STATUS</div><div>• Is the DTC P1738:00 also present?</div></div>                                                                                                                                                                                          | <div>Yes</div> <div>Go to the applicable DTC inspection.<br/>(See <b>DTC P1738:00 [TCM (GW6A-EL, GW6AX-EL)]</b>.)</div> |
|      | <div>No</div> <div>Go to the next step.</div>                                                                                                                                                                                                                                         |                                                                                                                         |
| 2    | <div><div>RECORD VEHICLE STATUS WHEN DTC WAS DETECTED TO UTILIZE WITH REPEATABILITY VERIFICATION</div><div>Note</div><div><div>• Recording can be facilitated using the screen capture of the PC function.</div><div>• Record the freeze frame data/snap shot data.</div></div></div> | <div>–</div> <div>Go to the next step.</div>                                                                            |