## DTC P0500:00 [GW6A-EL, GW6AX-EL]

id050230321400

**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—**

| DTC P0500:00 | Vehicle speed signal circuit malfunction |
|---|---|
| DETECTION CONDITION | **Type A VIN**<br>• Under the following conditions, the vehicle speed signal input from DSC HU/CM is incorrect for **10 s**:<br>— Engine is running.<br>— Vehicle speed is **16 km/h {9.9 mph} or more**.<br>— There is no difference in speed between turbine/input shaft speed sensor and output shaft speed sensor.<br>**Type B VIN**<br>• Under the following conditions, the vehicle speed signal input from DSC HU/CM is incorrect for **10 s**:<br>— Engine is running.<br>— The vehicle is driven in D position or R position.<br>— Output shaft speed sensor related DTC is not recorded.<br>— There is no difference between vehicle speed signal from DSC HU/CM and turbine/input shaft speed sensor signal.<br>**Diagnostic support note**<br>• The check engine light illuminates if the TCM detects the above malfunction condition during the first drive cycle.<br>• The automatic transaxle warning light does not illuminate.<br>• PENDING CODE is available.<br>• FREEZE FRAME DATA is available.<br>• DTC is stored in the TCM memory. |
| FAIL-SAFE FUNCTION | • Inhibits learning control.<br>• Inhibits neutral idle control.<br>• Inhibits i-stop control.<br>• Inhibits AAS. |
| POSSIBLE CAUSE | • DSC HU/CM DTC is stored.<br>— ABS wheel-speed sensor malfunction |
| SYSTEM WIRING DIAGRAM | Not applicable |

### Diagnostic procedure

| STEP | INSPECTION | | ACTION |
|---|---|---|---|
| 1 | **VERIFY FREEZE FRAME DATA/SNAPSHOT DATA HAS BEEN RECORDED**<br>• 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. |
| 2 | **VERIFY RELATED SERVICE INFORMATION AVAILABILITY**<br>• Verify related Service Information availability.<br>• Is any related Service Information available? | 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 | **VERIFY STORED DTC IN DSC HU/CM**<br>• Perform the DSC HU/CM DTC inspection using the M-MDS.<br>(See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].)<br>• Are any DTCs present? | Yes | Go to the applicable DTC inspection.<br>(See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) |
| | | No | Go to the next step. |

| STEP | INSPECTION | | ACTION |
|---|---|---|---|
| 4 | **VERIFY DTC TROUBLESHOOTING COMPLETED**<br>• Clear the DTC using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [GW6A-EL, GW6AX-EL].)<br>• Perform the following procedure to ensure that the DTC has been resolved:<br>1. Drive the vehicle for **10 s or more** under the following conditions:<br>• Battery voltage: **8 V or more**<br>• Vehicle speed: **45 km/h {28 mph} or more**<br>• Perform the DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [GW6A-EL, GW6AX-EL].)<br>• Are any DTCs present? | Yes | Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [GW6A-EL, GW6AX-EL].) |
| | | No | DTC troubleshooting completed. |