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 P0721:00	Output shaft speed sensor/sensor output range malfunction			
DETECTION	Type A VIN Under the following conditions, the output shaft speed is 13,560 rpm or more for 1 s: Engine is running. Battery voltage is 10 V or more. Under the following conditions, the vehicle speed signal from the DSC HU/CM and the output shaft speed sensor signal differ by 520 rpm or more for 1 s: Engine is running. Battery voltage is 10 V or more. Vehicle speed signal related DTC is not recorded. Vehicle speed is 16 km/h {9.9 mph} or more. Vehicle speed signal from DSC HU/CM and turbine/input shaft speed sensor signal do not differ. Output shaft speed sensor signal is input. Output shaft speed is 13,560 rpm or less. Type B VIN Under the following condition, the output shaft speed is 13,560 rpm or more in forward or 2,000 rpm or more in reverse for a continuous 1 s: Battery voltage is 8 V or more. Diagnostic support note The check engine light illuminates if the TCM detects the above malfunction condition during the first drive cycle. The automatic transaxle warning light illuminates if the TCM detects the above malfunction condition during the first drive cycle. PENDING CODE is available. PERDING CODE is available. PTC is stored in the TCM memory.			
FAIL-SAFE FUNCTION	 Inhibits learning control. Inhibits manual mode. Inhibits neutral idle control. Inhibits i-stop control. Inhibits AAS. 			
POSSIBLE CAUSE	Output shaft speed sensor malfunction			
SYSTEM WIRING DIAGRAM	Not applicable			

Diagnostic procedure

Diagnostic procedure					
STEP	INSPECTION		ACTION		
1	VERIFY DSC HU/CM DTC	Yes	Go to the applicable DTC inspection.		
	 Perform the DSC HU/CM DTC inspection using 		(See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY		
	the M-MDS.		CONTROL (DSC)].)		
	(See ON-BOARD DIAGNOSIS [DYNAMIC	No	Go to the next step.		
	STABILITY CONTROL (DSC)].)				
	Are any DTCs present?				

STEP	INSPECTION		ACTION
2	VERIFY INSTRUMENT CLUSTER REPAIR HISTORY • Does the instrument cluster have a record of replacement?	Yes	Perform the instrument cluster configuration, then go to Step 6. (See INSTRUMENT CLUSTER CONFIGURATION (USING AS-BUILT DATA).)
3	VERIFY AUTOMATIC TRANSMISSION REPAIR HISTORY • Does the automatic transmission (with control valve body) have a record of replacement?	No Yes No	Go to the next step. Perform the TCM configuration. (See TCM CONFIGURATION [GW6A-EL, GW6AX-EL].) Go to the next step.
4	VERIFY FREEZE FRAME DATA/SNAPSHOT DATA HAS BEEN RECORDED • Has the freeze frame data/snapshot data been recorded on the repair order?	Yes No	Go to the next step. Record the freeze frame data/snapshot data on the repair order, then go to the next step.
5	VERIFY RELATED SERVICE INFORMATION AVAILABILITY • Verify related Service Information availability. • Is any related Service Information available?	Yes	Perform repair or diagnosis according to the available Service Information. • If the vehicle is not repaired, replace the control valve body. (See CONTROL VALVE BODY REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL].) Go to the next step. Replace the control valve body, then go to the next step. (See CONTROL VALVE BODY REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL].)
6	VERIFY DTC TROUBLESHOOTING COMPLETED • Clear the DTC using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [GW6A-EL, GW6AX-EL].) • Perform the following procedure to ensure that the DTC has been resolved: 1. Drive the vehicle for 1 s or more under the following condition: • Vehicle speed: 30 km/h {19 mph} or more • Perform the DTC inspection using the M-MDS. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [GW6A-EL, GW6AX-EL].) • Are any DTCs present?	Yes No	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [GW6A-EL, GW6AX-EL].) DTC troubleshooting completed.