Caution

• Vehicle specifications differ depending on the vehicle identification number (VIN).

— Type A VIN:
 JM0 KE****** 100001—
 JM6 KE****** 100001—
 JM7 KE****** 100001—
 JM8 KE****** 100001—
 JMZ KE***** 100001—
 KE10** 100001—
 Type B VIN:
 JM0 KE****** 200001—
 JM6 KE****** 200001—
 JM8 KE****** 200001—
 JMZ KE****** 200001—
 KE10** 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 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. PENDING 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

STEP	INSPECTION		ACTION
1	VERIFY DSC HU/CM DTC	Yes	Go to the applicable DTC inspection.
'	• Perform the DSC HU/CM DTC inspection using the M-MDS.	165	(See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].)
	(See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)].) • Are any DTCs present?	No	Go to the next step.
2	VERIFY INSTRUMENT CLUSTER REPAIR HISTORY	Yes	Perform the instrument cluster configuration, then go to Step 6.
	 Does the instrument cluster have a record of replacement? 		(See INSTRUMENT CLUSTER CONFIGURATION (USING AS-BUILT DATA).)
		No	Go to the next step.
3	VERIFY AUTOMATIC TRANSMISSION REPAIR HISTORY	Yes	Perform the TCM configuration. (See TCM CONFIGURATION [FW6A-EL, FW6AX-EL].)
	 Does the automatic transmission (with control valve body) have a record of replacement? 	No	Go to the next step.
4	VERIFY FREEZE FRAME DATA/SNAPSHOT	Yes	Go to the next step.
	DATA HAS BEEN RECORDED	No	Record the freeze frame data/snapshot data on the repair
	Has the freeze frame data/snapshot data been		order, then go to the next step.
	recorded on the repair order?		
5	VERIFY RELATED SERVICE INFORMATION AVAILABILITY	Yes	Perform repair or diagnosis according to the available Service Information.
	 Verify related Service Information availability. Is any related Service Information available? 		If the vehicle is not repaired, replace the control valve body. (See CONTROL VALVE BODY REMOVAL/ INSTALLATION [FW6A-EL, FW6AX-EL].) Co. to the post step.
		No	Go to the next step. Replace the control valve body, then go to the next step.
		INO	(See CONTROL VALVE BODY REMOVAL/INSTALLATION [FW6A-EL, FW6AX-EL].)
6	VERIFY DTC TROUBLESHOOTING	Yes	Go to the applicable DTC inspection.
	COMPLETED	103	(See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE
	Clear the DTC using the M-MDS.		[FW6A-EL, FW6AX-EL].)
	(See ON-BOARD DIAGNOSTIC SYSTEM DTC	No	DTC troubleshooting completed.
	INSPECTION [FW6A-EL, FW6AX-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 [FW6A-EL, FW6AX-EL].)		
	Are any DTCs present?		