

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 P0716:00	Turbine/input shaft speed sensor range/performance problem
DETECTION CONDITION	Type A VIN <ul style="list-style-type: none"> • Under the following conditions, the turbine/input shaft speed is 9,000 rpm or more for 1 s: <ul style="list-style-type: none"> — Engine is running. — Battery voltage is 10 V or more. — Engine speed is 7,500 rpm or less. Type B VIN <ul style="list-style-type: none"> • Under the following condition, the turbine/input shaft speed is 9,000 rpm or more for 1 s: <ul style="list-style-type: none"> — Battery voltage is 8 V or more. Diagnostic support note <ul style="list-style-type: none"> • 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. • FREEZE FRAME DATA is available. • DTC is stored in the TCM memory.
FAIL-SAFE FUNCTION	<ul style="list-style-type: none"> • Set to TCC control. • Inhibits learning control. • Inhibits manual mode. • Inhibits neutral idle control. • Inhibits i-stop control. • Inhibits AAS. • Inhibits 5GR and 6GR. • Inhibits shift down when the accelerator pedal is depressed.
POSSIBLE CAUSE	<ul style="list-style-type: none"> • Turbine/input shaft speed sensor malfunction
SYSTEM WIRING DIAGRAM	Not applicable

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA/SHOT DATA HAS BEEN RECORDED <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Verify related Service Information availability. • Is any related Service Information available? 	Yes Perform repair or diagnosis according to the available Service Information. <ul style="list-style-type: none"> • 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.
		No Replace the control valve body, then go to the next step. (See CONTROL VALVE BODY REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL].)

STEP	INSPECTION	ACTION	
3	VERIFY DTC TROUBLESHOOTING COMPLETED <ul style="list-style-type: none">• 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:<ol style="list-style-type: none">1. Drive the vehicle for 1 s or more under the following condition:<ul style="list-style-type: none">• 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	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [GW6A-EL, GW6AX-EL].)
		No	DTC troubleshooting completed.