

2012 - Mazda6 - Transmission/ Transaxle

DTC P2757:00 [AY6A-EL]

DTC P2757:00	TCC control solenoid circuit performance or stuck off
DETECTION CONDITION	• Conditions: TCC control solenoid normal, TCC control solenoid ON command, ATF temperature 20 °C {68 °F} or more, TCM communication normal, driving in D position • Circumstances: Difference between engine and input/turbine speed sensor rotations 100rpm or above detected • Time period: Determined after 6 times lasting 2 or more seconds Diagnostic support note: • The MIL illuminates if the TCM detects the above malfunction condition in two consecutive drive cycles or in one drive cycle while the DTC for the same malfunction has been stored in the TCM. • The AT warning light illuminates. • PENDING CODE is available. • FREEZE FRAME DATA is available. • The DTC is stored in the TCM memory.
FAIL-SAFE FUNCTION	• Inhibits learning control • Inhibits TCC control • Inhibits slip control • Inhibits adaptive shift control
POSSIBLE CAUSE	• Deteriorated ATF • ATF level low • Line pressure malfunction • Stall speed malfunction • Torque converter malfunction • Solenoid valve malfunction

	TCC control solenoid • Control valve body malfunction • TCM malfunction
SYSTEM WIRING DIAGRAM	—

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED • Has the FREEZE FRAME DATA been recorded on the repair order?	Yes Go to the next step.
		No Record the FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY • Verify related Service Bulletins and/or on-line repair information availability. • Is any related repair information available?	Yes Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step.
		No Go to the next step.
3	INSPECT FOR ATF LEAKAGE • Verify that there is no ATF leaking from the transaxle case, and the connecting surfaces of the transaxle and the engine. • Is any ATF leakage verified?	Yes After repairing the spot where there is ATF leakage, adjust the ATF level, then go to Step 8. (See AUTOMATIC TRANSAXLE FLUID (ATF) LEVEL ADJUSTMENT [AY6A-EL] .)
		No Go to the next step.
4	INSPECT ATF CONDITION • Inspect the ATF condition. (See AUTOMATIC TRANSAXLE FLUID (ATF) INSPECTION [AY6A-EL] .) • Is it normal?	Yes Go to the next step.
		No Replace the ATF, then go to Step 8. (See AUTOMATIC TRANSAXLE FLUID (ATF) REPLACEMENT [AY6A-EL] .)
5	INSPECT LINE PRESSURE • Perform the "Line Pressures Test".	Yes Repair or replace malfunctioning part according to test result, then go to Step 8.

	(See MECHANICAL SYSTEM TEST [AY6A-EL] .)		
	• Is there any malfunction?	No	Go to the next step.
6	INSPECT STALL SPEED • Perform the "Stall Test". (See MECHANICAL SYSTEM TEST [AY6A-EL] .) • Is there any malfunction?	Yes	Repair or replace malfunctioning part according to test result, then go to Step 8.
		No	Go to the next step.
7	INSPECT TCC CONTROL SOLENOID • Inspect the TCC control solenoid. (See TORQUE CONVERTER CLUTCH (TCC) CONTROL SOLENOID INSPECTION [AY6A-EL] .) • Is there any malfunction?	Yes	Replace the control valve body, then go to the next step. (See CONTROL VALVE BODY REMOVAL/ INSTALLATION [AY6A-EL] .)
		No	Go to the next step.
8	VERIFY DTC TROUBLESHOOTING COMPLETED • Make sure to reconnect all the disconnected connectors. • Clear the DTC using the M-MDS. • Perform the following procedure to ensure that the DTC has been resolved: ◦ Start the engine. ◦ Warm up the engine and transaxle. ◦ Drive the vehicle in D position and make sure that the gears shift smoothly from 1GR to 6GR and TCC is operated. • Is the PENDING CODE same as the DTC present?	Yes	Replace the TCM, then go to the next step. (See TCM REMOVAL/ INSTALLATION [AY6A-EL] .)
		No	Go to the next step.
9	VERIFY NO DTCs ARE PRESENT • Perform the "Reading DTCs Procedure". (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [AY6A-EL] .) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [AY6A-EL] .)
		No	DTC troubleshooting completed.

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	(See MECHANICAL SYSTEM TEST [AY6A-EL] .)		
	• Is there any malfunction?	No	Go to the next step.
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