

2012 - Mazda6 - Transmission/ Transaxle

DTC P0727:00 [AY6A-EL]

DTC P0727:00	Engine speed input circuit no signal
DETECTION CONDITION	• Conditions: TCM communication normal • Circumstances: Engine speed signal abnormality detected • Time period: Determined after 1 times Diagnostic support note: • The MIL illuminates if the TCM detects the above malfunction condition during the first drive cycle. • The AT warning light illuminates. • PENDING CODE is not available. • FREEZE FRAME DATA is available. • The DTC is stored in the TCM memory.
FAIL-SAFE FUNCTION	• Emergency mode 3
POSSIBLE CAUSE	• PCM malfunction
SYSTEM WIRING DIAGRAM	—

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED	Yes Go to the next step.
	• Has the FREEZE FRAME DATA been recorded on the repair order?	No Record the FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY	Yes Perform repair or diagnosis according to the available repair information.

	• Verify related Service Bulletins and/or on-line repair information availability. • Is any related repair information available?		• If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	VERIFY DTC IS PRESENT • Switch the ignition ON (Engine off). • Read the DTC in the PCM. • Are any DTCs stored?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [MZI 3.7 V6] .)
		No	Go to the next step.
4	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 to normal operating temperature. ◦ Drive the vehicle in D position for 0.5 s or more. • Is the same DTC present?	Yes	Repeat Step 3.
		No	Go to the next step.
5	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.

2012 - Mazda6 - Transmission/ Transaxle

DTC P0727:00 [AY6A-EL]

DTC P0727:00	Engine speed input circuit no signal
DETECTION CONDITION	• Conditions: TCM communication normal • Circumstances: Engine speed signal abnormality detected • Time period: Determined after 1 times Diagnostic support note: • The MIL illuminates if the TCM detects the above malfunction condition during the first drive cycle. • The AT warning light illuminates. • PENDING CODE is not available. • FREEZE FRAME DATA is available. • The DTC is stored in the TCM memory.
FAIL-SAFE FUNCTION	• Emergency mode 3
POSSIBLE CAUSE	• PCM malfunction
SYSTEM WIRING DIAGRAM	—

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED	Yes Go to the next step.
	• Has the FREEZE FRAME DATA been recorded on the repair order?	No Record the FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY	Yes Perform repair or diagnosis according to the available repair information.

	• Verify related Service Bulletins and/or on-line repair information availability. • Is any related repair information available?		• If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	VERIFY DTC IS PRESENT • Switch the ignition ON (Engine off). • Read the DTC in the PCM. • Are any DTCs stored?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [MZI 3.7 V6] .)
		No	Go to the next step.
4	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 to normal operating temperature. ◦ Drive the vehicle in D position for 0.5 s or more. • Is the same DTC present?	Yes	Repeat Step 3.
		No	Go to the next step.
5	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.