

2012 - Mazda6 - Engine

DTC P2110:00 [MZR 2.5]

DTC P2110:00	Throttle valve actuator control system-forced limited RPM
DETECTION CONDITION	- The throttle valve actuator control system is in the failure mode effects management mode. Diagnostic support note - This is a continuous monitor (CCM). - The MIL illuminates if the PCM detects the above malfunction condition in the first drive cycle. - FREEZE FRAME DATA (Mode 2)/Snapshot data is available. - The DTC is stored in the PCM memory.
POSSIBLE CAUSE	- Throttle valve actuator control module internal processor malfunction - APP sensor malfunction - PCM malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/ SNAPSHOT DATA HAS BEEN RECORDED	Yes Go to the next step.
	Has the FREEZE FRAME DATA (Mode 2)/snapshot data been recorded?	No Record the FREEZE FRAME DATA (Mode 2)/snapshot 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?	No Go to the next step.

3	VERIFY RELATED PENDING AND STORED DTC - Switch the ignition to off, then to ON (engine off). - Verify pending and stored DTCs using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [MZR 2.5].) - Are any other DTCs present?		Yes Go to the applicable DTC inspection. (See DTC TABLE [MZR 2.5].) No Go to the next step.
4	PERFORM VISUAL INSPECTION - Switch the ignition to off. - Visually inspect the following for obvious signs of damage: - Throttle body - PCM - Is a concern present?		Yes Isolate the concern and repair if necessary, then go to Step 6. No Go to the next step.
5	INSPECT APP SENSOR - Inspect the APP sensor. (See ACCELERATOR PEDAL POSITION (APP) SENSOR INSPECTION [MZR 2.5].) - Is there any malfunction?		Yes Replace the APP sensor, then go to the next step. (See ACCELERATOR PEDAL REMOVAL/ INSTALLATION [MZR 2.5].) No Go to the next step.
6	VERIFY DTC TROUBLESHOOTING COMPLETED - Make sure to reconnect all disconnected connectors. - Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [MZR 2.5].) - Perform the KOER self test. (See KOEO/ KOER SELF TEST [MZR 2.5].) - Is the same DTC present?		Yes Repeat the inspection from Step 1. If the malfunction recurs, replace the PCM. (See PCM REMOVAL/ INSTALLATION [MZR 2.5].) Go to the next step. No Go to the next step.
7	VERIFY AFTER REPAIR PROCEDURE Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR		Yes Go to the applicable DTC inspection. (See DTC TABLE [MZR 2.5].) No DTC troubleshooting completed.

	PROCEDURE [MZR 2.5] .)		
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| | <ul style="list-style-type: none">• Are any DTCs present? | | |
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	Has the FREEZE FRAME DATA (Mode 2)/snapshot data been recorded?	No Record the FREEZE FRAME DATA (Mode 2)/snapshot 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 RELATED PENDING AND STORED DTC - Switch the ignition to off, then to ON (engine off). - Verify pending and stored DTCs using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [MZR 2.5].) - Are any other DTCs present?		Yes Go to the applicable DTC inspection. (See DTC TABLE [MZR 2.5].) No Go to the next step.
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	PROCEDURE [MZR 2.5] .)		
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