2012 - Mazda6 - Engine

DTC P2228:00 [MZR 2.5]

DTC P2228:00	BARO sensor circuit low input
DETECTION CONDITION	• The PCM monitors input voltage from the BARO sensor. If the input voltage is **below 1.95 V** for **5 s**, the PCM determines that BARO sensor circuit has a malfunction. (TYPE A) • The PCM monitors input voltage from the BARO sensor. If the input voltage is **below 1.8 V** for **5 s**, the PCM determines that BARO sensor circuit has a malfunction. (TYPE B) **Diagnostic support note** • This is a continuous monitor (CCM). • The MIL illuminates if PCM detects the above malfunction condition during the first drive cycle. • FREEZE FRAME DATA (Mode 2)/Snapshot data is available. • The DTC is stored in PCM memory.
POSSIBLE CAUSE	• BARO sensor malfunction • PCM malfunction

Diagnostic procedure

STEP	INSPECTION		ACTION
1	**VERIFY FREEZE FRAME DATA (MODE 2)/ SNAPSHOT DATA HAS BEEN RECORDED** • Has the FREEZE FRAME DATA (Mode 2)/snapshot data been recorded?	Yes	Go to the next step.
		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** • Verify related Service Bulletins and/or on-line repair information availability.	Yes	Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step.

	• Is any related repair information available?	No	Go to the next step.
3	**INSPECT BARO SENSOR MALFUNCTION** • Start the engine. • Access the BARO PID using the M-MDS. (See **ON-BOARD DIAGNOSTIC TEST [MZR 2.5]**.) • Is the value within the specification? (See **PCM INSPECTION [MZR 2.5]**.)	Yes	Go to the next step.
		No	Replace the PCM, then go to the next step. (See **PCM REMOVAL/ INSTALLATION [MZR 2.5]**.)
4	**VERIFY DTC TROUBLESHOOTING COMPLETED** • Clear the DTC from the PCM memory using the M-MDS. (See **AFTER REPAIR PROCEDURE [MZR 2.5]**.) • Perform the KOEO or KOER self test. (See **KOEO/ KOER SELF TEST [MZR 2.5]**.) • Is the same DTC present?	Yes	Replace the PCM, then go to the next step. (See **PCM REMOVAL/ INSTALLATION [MZR 2.5]**.)
		No	Go to the next step.
5	**VERIFY AFTER REPAIR PROCEDURE** • Perform the "AFTER REPAIR PROCEDURE". (See **AFTER REPAIR PROCEDURE [MZR 2.5]**.) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See **DTC TABLE [MZR 2.5]**.)
		No	DTC troubleshooting completed.

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POSSIBLE CAUSE	• BARO sensor malfunction • PCM malfunction

Diagnostic procedure

STEP	INSPECTION		ACTION
1	**VERIFY FREEZE FRAME DATA (MODE 2)/ SNAPSHOT DATA HAS BEEN RECORDED** • Has the FREEZE FRAME DATA (Mode 2)/snapshot data been recorded?	Yes	Go to the next step.
		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** • Verify related Service Bulletins and/or on-line repair information availability.	Yes	Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step.

	• Is any related repair information available?	No	Go to the next step.
3	**INSPECT BARO SENSOR MALFUNCTION** • Start the engine. • Access the BARO PID using the M-MDS. (See **ON-BOARD DIAGNOSTIC TEST [MZR 2.5]**.) • Is the value within the specification? (See **PCM INSPECTION [MZR 2.5]**.)	Yes	Go to the next step.
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		No	DTC troubleshooting completed.

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