

2012 - Mazda6 - Engine

DTC P06B8:00 [MZI 3.7 V6]

DTC P06B8:00	Internal control module non-Volatile Random Access Memory (NVRAM) error
DETECTION CONDITION	This DTC indicates a concern with the ability of the PCM to correctly store permanent DTCs.
POSSIBLE CAUSE	PCM calibration level

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED Has FREEZE FRAME DATA been recorded?	Yes Go to the next step.
		No Record 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 Service Bulletins available?	Yes Perform repair or diagnosis according to the available Service Bulletins. If the vehicle is not repaired, go to the next step.
		No Go to the next step.
3	VERIFY RELATED PENDING CODE OR STORED DTCs - Switch the ignition off then to the ON position (Engine off). - Verify the related PENDING CODE or stored DTCs using the M-MDS. - Is other DTC present?	Yes Go to the appropriate DTC troubleshooting. (See DTC TABLE [MZI 3.7 V6] .)
		No Go to the next step
4	INSPECT PCM FOR LATEST CALIBRATION	Yes Go to the next step.

	• Program the PCM to the latest calibration. • Switch the ignition ON (Engine running). • Idle the engine. • Verify PENDING CODE or stored DTCs. • Is the same DTC present?	No	Troubleshooting completed.
5	INSPECT FOR CORRECT PCM OPERATION • Disconnect all the PCM connectors. • Visually inspect for: ▪ Pushed out pins ▪ Corrosion • Connect all the PCM connectors and verify that they seat correctly. • Retrieve DTCs using the M-MDS. • Is the same DTC present?	Yes	Go to the next step.
		No	The system is correctly. Go to the next step.
6	VERIFY TROUBLESHOOTING OF DTC P06B8:00 HAS BEEN COMPLETED • Verify that all disconnected connectors are reconnected. • Switch the ignition to ON (Engine off). • Clear the DTC from the PCM memory using the M-MDS. • Start the engine and drive the vehicle. • Verify PENDING CODE or stored DTCs. • Is the same DTC present?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/ INSTALLATION [MZI 3.7 V6] .) Go to the next step.
		No	Go to the next step.
7	VERIFY AFTER REPAIR PROCEDURE • Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [MZI 3.7 V6] .) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [MZI 3.7 V6] .)
		No	Troubleshooting completed.

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		No	Troubleshooting completed.

