

2012 - Mazda6 - Engine

DTC P0606:00 [MZR 2.5]

DTC P0606:00	PCM processor error
DETECTION CONDITION	- The PCM internal CPU malfunction. - Abnormal voltage applied to PCM ignition switch terminal. Diagnostic support note - This is a continuous monitor (CCM). - The MIL illuminates if the PCM detects the above malfunction condition during first drive cycle. - FREEZE FRAME DATA (Mode 2)/Snapshot data is available. - The DTC is stored in the PCM memory.
POSSIBLE CAUSE	- Voltage of 1.0 V or more is applied to PCM ignition switch terminal even though ignition switch is off. - PCM internal CPU 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?	If the vehicle is not repaired, go to the next step.
		No Go to the next step.

3	VERIFY VOLTAGE AROUND PCM IGNITION SWITCH - When the ignition switch is off, verify that the voltage around the PCM ignition switch is less than 1.0 V. NOTE: - If the measured value fluctuates above and below 1.0 V, place the measurement position close to the PCM and measure several times. - Is the measured voltage less than 1.0 V?	<table><tr><td>Yes</td><td>Go to the next step.</td></tr><tr><td>No</td><td>Inspect the power supply line for open or short circuits, and repair or replace the malfunctioning part. Go to the next step.</td></tr></table>	Yes	Go to the next step.	No	Inspect the power supply line for open or short circuits, and repair or replace the malfunctioning part. Go to the next step.
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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?	<table><tr><td>Yes</td><td>Replace the PCM, then go to the next step. (See PCM REMOVAL/ INSTALLATION [MZR 2.5].)</td></tr><tr><td>No</td><td>Go to the next step.</td></tr></table>	Yes	Replace the PCM, then go to the next step. (See PCM REMOVAL/ INSTALLATION [MZR 2.5] .)	No	Go to the next step.
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5	VERIFY AFTER REPAIR PROCEDURE - Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [MZR 2.5].) - Are any DTCs present?	<table><tr><td>Yes</td><td>Go to the applicable DTC inspection. (See DTC TABLE [MZR 2.5].)</td></tr><tr><td>No</td><td>DTC troubleshooting completed.</td></tr></table>	Yes	Go to the applicable DTC inspection. (See DTC TABLE [MZR 2.5] .)	No	DTC troubleshooting completed.
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