

2012 - Mazda6 - Engine

DTC P144A:00 [MZR 2.5]

DTC P144A:00	EVAP system purge vapor line restricted/blocked
DETECTION CONDITION	- P144A:00 indicates that the P144A:00 blocked line diagnostic is designed to detect a full blockage in the vapor lines between the fuel tank pressure sensor and the fuel tank. Diagnostic support note - This is an intermittent monitor (EVAP system). - The MIL illuminates if the PCM detects the above malfunction conditions in two consecutive drive cycles or in one drive cycle while the DTC for the same malfunction has been stored in the PCM. - PENDING CODE is available 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	- Blockage(s) between fuel tank pressure sensor and fuel tank - PCM malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/ SNAPSHOT DATA AND DIAGNOSTIC MONITORING TEST RESULTS HAVE BEEN RECORDED Have the FREEZE FRAME DATA (Mode 2)/snapshot data and DIAGNOSTIC MONITORING TEST RESULTS (EVAP system related) been recorded?	YesGo to the next step.
		NoRecord the FREEZE FRAME DATA (Mode 2)/snapshot data and DIAGNOSTIC MONITORING TEST RESULTS on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY	YesPerform 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.
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].) • Is the DTC P0451:00, P0452:00, P0453:00 or P0454:00 also present?	Yes Go to the applicable DTC inspection. (See DTC P0451:00 [MZR 2.5] .) (See DTC P0452:00 [MZR 2.5] .) (See DTC P0453:00 [MZR 2.5] .) (See DTC P0454:00 [MZR 2.5] .)	No Go to the next step.
4	INSPECT FOR BLOCKED FUEL VAPOR TUBE BETWEEN FUEL TANK PRESSURE SENSOR AND FUEL TANK • Switch the ignition to off. • Remove the fuel vapor tube assembly. (See FUEL TANK REMOVAL/ INSTALLATION [MZR 2.5].) • Visually inspect the fuel vapor tube for a blockage between the fuel tank pressure sensor and the connection to the fuel tank. • Visually inspect the connection at the fuel tank for a blockage. • Attempt to manually remove the blockage. • Is the blockage visible and can be removed?	Yes Remove the blockage, then go to the next step.	No Replace a fuel vapor tube assembly, then go to the next step. (See FUEL TANK REMOVAL/ INSTALLATION [MZR 2.5] .)
5	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 Drive Mode 06 (EVAP	Yes Replace the PCM, then go to the next step. (See PCM REMOVAL/ INSTALLATION [MZR 2.5] .)	No Go to the next step.

	System Repair Verification Drive Mode). (See OBD-II DRIVE MODE [MZR 2.5].) • Is the PENDING CODE for this DTC present?		
6	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	- Blockage(s) between fuel tank pressure sensor and fuel tank - PCM malfunction

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		NoRecord the FREEZE FRAME DATA (Mode 2)/snapshot data and DIAGNOSTIC MONITORING TEST RESULTS on the repair order, then go to the next step.
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5	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 Drive Mode 06 (EVAP	Yes Replace the PCM, then go to the next step. (See PCM REMOVAL/ INSTALLATION [MZR 2.5] .)	No Go to the next step.

	System Repair Verification Drive Mode). (See OBD-II DRIVE MODE [MZR 2.5].) • Is the PENDING CODE for this DTC present?		
6	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.