

2012 - Mazda6 - Engine

DTC P1001:00 [MZI 3.7 V6]

DTC P1001:00	KOER not able to complete, KOER aborted
DETECTION CONDITION	- P1001:00 indicates any of the following - Unable to access Continuous Memory DTCs. - Unable to activate KOEO or KOER Self-Test. - M-MDS tester communication problem. - DTC displayed by M-MDS tester not listed. - KOER Self-Test cannot be completed.
POSSIBLE CAUSE	- Damaged DLC-2. - Open circuit in DLC-2 wiring harness circuit. - Short circuit in DLC-2 circuit or related modules. - Incorrect Self-Test procedure. - VREF is not within specification. - Idle RPM out of specification. - Damaged PCM power relay circuit - PCM malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED Has FREEZE FRAME DATA been recorded?	YesGo to the next step.
		NoRecord FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY	YesPerform repair or diagnosis according to the available Service Bulletins.

	Verify related Service Bulletins and/or on-line repair information availability. Is any related Service Bulletins available?		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 related pending code or stored DTCs. - Are other DTCs present?	Yes	Go to the appropriate DTC troubleshooting. (See DTC TABLE [MZI 3.7 V6].)
		No	Go to the next step.
4	INSPECT DLC-2 FOR POOR CONNECTION - Switch the ignition off. - Inspect for poor connection at the DLC-2 (such as damaged/pulled-out pins, corrosion). - Are there any malfunction?	Yes	Repair or replace suspected part, then go to Step 6.
		No	Go to the next step.
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 PENDING CODE for this DTC present?	Yes	Replace the PCM, then go to the next step. (See PCM REMOVAL/ INSTALLATION [MZI 3.7 V6].)
		No	Go to the next step.
6	VERIFY TROUBLESHOOTING OF DTC P1001:00 HAS BEEN COMPLETED - Verify that all disconnected connectors are reconnected. - Switch the ignition ON (Engine off). - Clear the DTC from the PCM memory using the M-MDS.	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.

	• Perform the KOER self-test. (See KOEO/ KOER SELF TEST [MZI 3.7 V6] .) • Is the same DTC present?	No	Go to the next step.
7	VERI FY AFTER REPAI R PROCEDURE • Perform the "After Repair Procedure". (See AFTER REPAI R 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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