

2012 - Mazda6 - Engine

DTC P1127:00 [MZI 3.7 V6]

DTC P1127:00	Exhaust temperature out of range, HO2S tests not completed
DETECTION CONDITION	The HO2S monitor uses an exhaust temperature model to determine when the HO2S heaters are cycled ON. The test fails when the inferred exhaust temperature is below a minimum calibrated value.
POSSIBLE CAUSE	- Exhaust system too cool - Engine not operating long enough prior to carrying out the KOER self-test

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 availability. - Is any related Service Bulletins available?	Yes Perform repair or diagnosis according to available Service Bulletins. If vehicle is not repaired, go to the next step.
		No Go to the next step.
3	EXHAUST TEMPERATURE OUT OF RANGE NOTE: - Address all other DTCs before proceeding. - Switch the ignition ON (Engine running) - Verify that the engine is at normal operating temperature.	Yes Perform the KOER self-test, then go to the next step. (See KOE0/ KOER SELF TEST [MZI 3.7 V6] .)
		No Run the engine until the PID indicates ON. Perform the KOER self-test, then go to the next step.

	• Access the PCM and monitor the HO2S heater PID. • Is the PID state ON?		(See KOE0/ KOER SELF TEST [MZI 3.7 V6] .)
4	VERIFY TROUBLESHOOTING OF DTC P1127:00 HAS BEEN COMPLETED • Verify that all disconnected connectors reconnected. • Clear the DTC from the PCM memory using the M-MDS. • Start engine. • Perform the KOEO or KOER self-test. (See KOE0/ KOER SELF TEST [MZI 3.7 V6] .) • Is same 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.
5	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	Go to the next step.
5	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.