

2012 - Mazda6 - Engine

DTC P1288:00 [MZI 3.7 V6]

DTC P1288:00	CHT sensor out of self-test range
DETECTION CONDITION	Indicates the CHT sensor is out of self-test range. The engine is not at a normal operating temperature.
POSSIBLE CAUSE	- Cold engine - Engine overheating - Low engine coolant level - CHT sensor malfunction - Connector or terminal 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 - Verify related Service Bulletins availability. - Is any related Service Bulletins available?	YesPerform repair or diagnosis according to available Service Bulletins. If vehicle is not repaired, go to the next step.
		NoGo to the next step.
3	VERIFY RELATED PENDING CODE OR STORED DTC - Verify the related PENDING CODE or stored DTCs. - Are other DTCs present?	YesGo to appropriate DTC inspection. (See DTC TABLE [MZI 3.7 V6] .)
		NoGo to the next step.

4	INSPECT THE COOLING SYSTEM - Inspect the vehicle coolant level. - Is the cooling system normal?	Yes	Go to the next step.
		No	Inspect the cooling system (overheat), the go to Step 7.
5	INSPECT CHT SENSOR - Inspect the CHT sensor. (See CYLINDER HEAD TEMPERATURE (CHT) SENSOR INSPECTION [MZI 3.7 V6].) - Is there any malfunction?	Yes	Replace the CHT sensor, then go to Step 7.
		No	Go to the next step.
6	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	Go to the next step.
		No	The system is correctly. Go to the next step.
7	VERIFY TROUBLESHOOTING OF DTC P1288:00 HAS BEEN COMPLETED - Verify that all disconnected connectors reconnected. - Clear the DTC from the PCM memory using the M-MDS. - Perform the KOEO or KOER self-test. (See KOEO/ KOER SELF TEST [MZI 3.7 V6].) - Is the PENDING CODE for the 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.
8	VERIFY AFTER REPAIR PROCEDURE Perform the "AFTER REPAIR PROCEDURE".	Yes	Go to the applicable DTC inspection. (See DTC TABLE [MZI 3.7 V6].)

	(See AFTER REPAIR PROCEDURE [MZI 3.7 V6] .)	No	Troubleshooting completed.
	• Are any DTCs present?		

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