

2012 - Mazda6 - Engine

DTC P1501:00 [MZI 3.7 V6]

DTC P1501:00	Vehicle speed sensor (VSS) out of self-test range
DETECTION CONDITION	Indicates that the vehicle speed input signal is out of the self-test range. If the PCM detects a vehicle speed input signal any time during the self-test, DTC P1501:00 is set and the test aborts.
POSSIBLE CAUSE	- Noise on the vehicle speed input signal from radio frequency interference/electro magnetic interference - External sources, such as ignition wires, the charging circuit, or aftermarket equipment

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 and/or on-line repair information availability. - Is any related Service Bulletins available?	Yes Perform repair or diagnosis according to the available Service Bulletins. If the vehicle is not repaired, go to the next step.
		No Go to the next step.
3	VERIFY STORED DTC IN DSC HU/ CM - Switch the ignition ON (Engine off). - Verify stored DTCs in DSC HU/CM. - Are DTCs stored?	Yes Go to the appropriate DTC inspection. (See ON-BOARD DIAGNOSIS [DYNAMIC STABILITY CONTROL (DSC)] .)
		No Go to the next step.

4	VERIFY TROUBLESHOOTING OF DTC P1501:00 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	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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