

2012 - Mazda6 - Engine

DTC P1705:00 [MZI 3.7 V6]

DTC P1705:00	Transmission range sensor out of self-test range
DETECTION CONDITION	The transmission range circuit does not indicate PARK/NEUTRAL during the self-test.
POSSIBLE CAUSE	Gear selector not in PARK/NEUTRAL

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	VERIFY THE SELECTOR LEVER POSITION Was the selector lever position in P or N position during the KOEO/KOER self-test? (See KOEO/ KOER SELF TEST [MZI 3.7 V6] .)	Yes Go to the next step.
		No Perform the KOEO or KOER self-test. (See KOEO/ KOER SELF TEST [MZI 3.7 V6] .) Then go to Step 5.
4	VERIFY STORED DTC IN TCM Switch the ignition to ON (Engine off).	Yes Go to the appropriate DTC inspection. (See ON-BOARD DIAGNOSTIC SYSTEM DTC

	- Verify stored DTCs in TCM. (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [FS5A-EL] .) (See ON-BOARD DIAGNOSTIC SYSTEM DTC INSPECTION [AY6A-EL] .) - Are DTCs stored?	TABLE [FS5A-EL] .) (See ON-BOARD DIAGNOSTIC SYSTEM DTC TABLE [AY6A-EL] .)	
		No	Go to the next step.
5	VERIFY TROUBLESHOOTING OF DTC P1705:00 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 this 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.
6	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	Troubleshooting completed.