

2012 - Mazda6 - Engine

DTC P1464:00 [MZI 3.7 V6]

DTC P1464:00	A/C demand out of self-test range
DETECTION CONDITION	The DTC sets when the PCM receives a request for A/C during the self-test.
POSSIBLE CAUSE	- A/C or defrost on during self-test - Communication error between PCM and climate control module - Short to power supply between PCM terminal 1W and A/C relay - A/C switch signal malfunction - A/C relay malfunction - PCM malfunction NOTE: - If the A/C or defrost was on during self-test, turn the A/C or defrost off and repeat the self-test. An A/C request to the PCM may come through the communication link or on a dedicated hardwire circuit from the A/C switch.

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED	Yes Go to the next step.
	Has FREEZE FRAME DATA been recorded?	No Record FREEZE FRAME DATA on the repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY	Yes Perform repair or diagnosis according to the available Service Bulletins.
	Verify related Service Bulletins and/or on-line repair information availability.	If the vehicle is not repaired, go to the next step.
		No Go to the next step.

	Is any related Service Bulletins available?		
3	VERIFY A/ C AND DEFROST ARE OFF DURING SELF-TEST - Perform the KOEO or KOER self-test. (See KOEO/ KOER SELF TEST [MZI 3.7 V6].) - Are the A/C and defrost off during the self-test?	Yes	Go to the next step.
		No	Turn the A/C and defrost off. Then go to Step 5.
4	INSPECT ACCS PID - Switch the ignition ON (Engine off). - A/C and defroster OFF. - Access the PCM and monitor the ACCS PID. - Is the PID state ON?	Yes	The ACCS PID indicates that the PCM is being requested to turn on the A/C. Inspect the A/C system. (See A/ C OPERATION CHECK MODE TABLE.) Then go to the next step.
		No	The ACCS PID indicates that the ACCS input to the PCM is low. Inspect the following: - Short to power supply circuit between PCM terminal 1W and A/C relay - A/C relay Repair or replace if necessary. Go to the next step.
5	VERIFY TROUBLESHOOTING OF DTC P1464:00 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.

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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	Is any related Service Bulletins available?		
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