

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922

**Subject:**

CHECK ENGINE LIGHT ON WITH DTC P2112

Bulletin No.: 01-007/26

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BULLETIN NOTES

APPLICABLE MODEL(S)/VINS

2023 CX-30 (Mexico built) vehicles with VINs lower than 3MV DM**** ** 589483 (Produced before Sept. 4, 2023)
2023 Mazda3 (Japan built) vehicles with VINs lower than JM1 BP**** ** 623994 (Produced before May 23, 2023)
2023 Mazda3 (Mexico built) vehicles with VINs lower than 3MZ BP**** ** 385903 (Produced before Sept. 11, 2023)

DESCRIPTION

Some vehicles may exhibit the check engine light ON with DTC P2112 (Throttle valve actuator control motor current system: Characteristic malfunction). The DTC is stored when the engine is started at sub-zero ambient temperatures. To eliminate this concern, the PCM logic has been modified.

Customers having this concern should have their vehicle repaired using the following repair procedure.

REPAIR PROCEDURE

1. Verify the customer concern.
2. Reprogram the PCM with the Mazda Modular Diagnostic System (M-MDS), using Mazda Diagnostic and Repair Software (MDARS). Refer to MDARS ECU Reprogramming Procedure.

NOTE: Be sure to submit Diagnostic Information (ODR) data as it is a required item and will be checked during warranty claim submission. Instructions can be found under M-MDS -> MDARS (Uploading Diagnostic Information (ODR) Data).

3. Clear any other DTCs.
4. Verify the repair by starting the engine (READY ON) and confirming there is no CHECK ENGINE light ON or abnormal warning lights present.

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CALIBRATION

ECU	Model	File Name (Old)	File Name (New)	Actual time to reprogram
PCM	Mazda3	PXMT-188K2-G	PXMT-188K2-H	3 min.
		PXRR-188K2-G	PXRR-188K2-H	
		PXMW-188K2-G	PXMW-188K2-H	
		PXRS-188K2-G	PXRS-188K2-H	
		PXNA-188K2-G	PXNA-188K2-H	
		PXRT-188K2-G	PXRT-188K2-H	
		PXPH-188K2-G	PXPH-188K2-H	
		PXRW-188K2-G	PXRW-188K2-H	
		PXPJ-188K2-G	PXPJ-188K2-H	
		PXRX-188K2-G	PXRX-188K2-H	
	CX-30	PXNT-188K2-H	PXNT-188K2-J	
		PXRV-188K2-H	PXRV-188K2-J	

NOTE: This Service Information only is applicable for vehicles using the above calibration files.

WARRANTY INFORMATION**NOTE:**

- This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.
- This repair will be covered under Federal Emission Warranty.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	6X
Damage Code	9W
Causal Part No.	5555-18-881
Quantity	0
Operation No. and Labor Hours	XXX5RXFX / 0.3 Hrs.

After reprogramming, be sure to keep a copy of the ECU FILENAME screen on M-MDS along with the repair order and warranty application sheet.

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