

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922



Subject: CHECK ENGINE LIGHT ILLUMINATES AT IDLE WITH DTC P0300:00 (MEXICO SPEC. ONLY)	Bulletin No.: 01-002/24
	Last Issued : 09/10/2024

BULLETIN NOTES

This bulletin supersedes the previously issued bulletin(s) listed below. The changes are noted in Red text.

Previous TSBs:	Date(s) Issued:
01-002/24	02/12/24

APPLICABLE MODEL(S)/VINS

Mexico Spec.:

2022-2023 Mazda2 (Mexico built) vehicles with VINs lower than 3MD DJ**** ** 478272 (Produced before Aug. 2, 2023)

DESCRIPTION

Some customers may experience a check engine light illumination at idle while stopped with DTC P0300:00 stored, resulting in rough idle conditions.

- P0300:00: Random misfire detected

This concern is caused by improper engine control in the idle range. To eliminate the concern, the PCM control software 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 Mazda Modular Diagnostic System (M-MDS) using IDS **133.05** or later software. Refer to IDS Reprogramming Procedure.

NOTE: Be sure to submit Diagnostic Information (ODR) data as it is a required item and will be checked during

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warranty claim submission: Uploading Diagnostic Information (ODR) Data.**NOTE:**

- Reprogramming is not necessary if current calibration file name in the ECU FILENAME screen is the same as shown in Calibration Files Information or with later suffix.
- The parameter "Battery State of Charge (SOC)" is reset during PCM reprogramming procedure.
- Since the SOC value is necessary when performing "Battery condition initialization setting" after PCM reprogramming to decide whether battery charging is necessary or not, measure and record the PID "BATT_SOC" first by using M-MDS Data logger function before reprogramming the PCM.
- After the reprogramming, pending DTC P2610:00 [PCM] may be stored without MIL illumination. Since this DTC may turn to a current DTC depending on operations after the reprogramming, clear DTC after all repair work is done.

3. After PCM reprogramming, conduct the battery condition initial setting (i-stop setting) according to the instructions in MGSS (BATTERY CONDITION INITIALIZATION SETTING (i-stop SETTING)).
4. Clear the DTC and turn the ignition off and get out of the car.
5. Close and lock the door then wait ten minutes or more.
6. Verify the repair by starting the engine and confirming there is no CHECK ENGINE light ON or abnormal warning lights present.

NOTE: If any DTCs should remain after deleting DTC, diagnose the DTCs according to the appropriate Troubleshooting section on MGSS.

CALIBRATION

File Name

PV23-188K2-F

WARRANTY INFORMATION**NOTE:**

This warranty information applies only to verified customer complaints on vehicles eligible for warranty repair.

This repair will be covered under Mazda Mexico Basic Warranty.

Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	6X
Damage Code	9W
Causal Part No.	5555-RP-PCM
Quantity	0

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Operation No. / Labor Hours

XXWL5XFX / 0.3 Hrs.

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