

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922

**Subject:**

CHECK ENGINE LIGHT ON WITH DTC P061B:00 AND LACK OF POWER AT A COLD START OR AT HIGH ELEVATIONS

Bulletin No.: 01-011/23

Last Issued : 12/18/2023

BULLETIN NOTES

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

Previous TSBs:	Date(s) Issued:
01-015/22	11/22/22

APPLICABLE MODEL(S)/VINS:**US/Canada Spec.:**

2023 CX-50 with VINs lower than 7MMVA*****119665 (produced before September 27, 2022)

Mexico Spec.:

2023-2024 CX-50 with VINs lower than 7MMVA*****177127 (produced before Nov. 3, 2023)

DESCRIPTION

Some customers may complain that the CHECK ENGINE light turns ON after a cold start or at high elevations (higher than 3,000m / 10,000 ft.), then exhibits lack of power from the engine with DTC P061B:00 stored in memory. This is caused by improper control software of the PCM. To eliminate this 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 using the Mazda Diagnostic And Repair Software (MDARS). Refer to MDARS ECU Reprogramming Procedure.

NOTE: Be sure to submit 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 ODR Data.

NOTE: 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.

For SKYACTIV-G 2.5 (Except Mexico):

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- If current calibration file name in the ECU FILENAME screen is the same as shown in Calibration Files Information or with later suffix, reprogramming is not necessary.

For SKYACTIV-G 2.5T (Except Mexico):

- 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 PCM reprogramming, conduct the battery condition initial setting (i-stop setting) according to the instructions on MGSS (BATTERY CONDITION INITIALIZATION SETTING (i-stop SETTING)).

3. Clear the DTC and turn the ignition off and get out of the vehicle.

4. Close and lock the doors.

5. Wait for 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 of MGSS.

CALIBRATION**US/Canada:**

File Name	Note
PXAC-188K2-G	2.5T
PX9W-188K2-H	2.5 (Mitsubishi)
PX9X-188K2-H	2.5 (Denso)

Mexico:

File Name	Note
PXAD-188K2-D	2.5T

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 Emissions Warranty for 8 years/80K miles.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	08

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Damage Code	9W
Part Number Main Cause	5555-18-881
Quantity	0
Operation Number / Labor Hours:	XXW7UXFX / 0.3 Hrs.

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