

Subject: CHECK ENGINE LIGHT WITH DTC P0AB9:00	Service Alert No.: SA-076/23
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BULLETIN NOTES

APPLICABLE MODEL(S)/VINS

2024 CX-90 H3T (inline 6) only

DESCRIPTION

Some vehicles may exhibit the CHECK ENGINE light turning ON with DTC P0AB9:00 (PCM Start Signal System) stored in memory. This may be caused by a PCM Start Signal System error detected due to improper PCM logic. To eliminate this concern, the control software of the PCM 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. Is the subject vehicle within the VIN range below?

VINs Range: JM3 KK***100044 to JM3 KK*****115838 (built from Dec. 27, 2022 to May 31, 2023)**

- If the subject vehicle is within the above VIN range **AND** there is a "Not Launched" or "OPEN SSPD4" in eMDCS, proceed to Step 3 and complete SSPD4.

NOTE: SSPD4 will reprogram the calibration files and resolve the P0AB9:00 DTC.

- If the subject vehicle is within the above VIN range, but there is not a "Not Launched" or "OPEN SSPD4" in eMDCS, contact the Mazda Warranty Hotline for further assistance.
- If the subject vehicle is not within the above VIN range, proceed to Step 4 to complete PCM reprogramming.

3. Perform SPECIAL SERVICE PROGRAM - SSPD4.

4. Diagnose according to the instructions on MGSS (P0AB9:00 [PCM (SKYACTIV-G 3.3T)]).

- When the cause is found, repair as instructed by MGSS and claim the diagnosis labor and repair labor (if repaired) as normal warranty claim.

5. Reprogram the PCM using the Mazda Diagnostic And Repair Software (MDARS). Refer to MDARS ECU Reprogramming Procedure.

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.

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- 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.

6. 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)).

7. Clear the DTC and turn the ignition off and get out of the car.

8. Close and lock the door then wait ten minutes or more.

9. 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

Spec.	Power	File Name
US	H3T High	H302-188K2-L
	H3T Low	H301-188K2-L

NOTE: The 8th digit of the VIN identifies the type of engine.

- C = H3 High Power
- D = H3 Low Power

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