

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922



Subject: DTC B2002:49 WILL NOT CLEAR	Bulletin No.: 09-033/20
	Last Issued: 10/13/2020

APPLICABLE MODEL(S)/VINS

2019-2020 Mazda3 (Japan built) with VINS lower than JM1BP*****152092 (produced before September 10, 2019)

DESCRIPTION

Some vehicles may exhibit that DTC B2002:49 will not clear with the Mazda Modular Diagnostic System (M-MDS). Applicable vehicles are equipped with the Electrical supply unit (ESU) BCKA-67-5Z0B.

- DTC B2002:49 [BODY CONTROL MODULE (BCM)] - Electrical supply unit (ESU) internal malfunction (No warning/indicator light illumination)

This is caused by improper control software of the ESU. To eliminate this concern, the control software of the ESU has been modified.

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

REPAIR PROCEDURE

1. Verify customer concern.

NOTE: If the customer is using the MyMazda App, explain to them that the malfunction information may be sent for the DTC detected during the repair before proceeding to the reprogramming.

2. Check the current software version of the ESU with the Mazda Modular Diagnostic System (M-MDS), using Mazda Diagnostic And Repair Software (MDARS).

- If current calibration file name in the ECU FILENAME screen is BEMD-66S07-B, proceed to step 3.
- If not, proceed to step 4.

3. Reprogram the ESU using the Mazda Diagnostic And Repair Software (MDARS), then go to step 4.
Refer to MDARS ECU Reprogramming Procedure.

NOTE:

- 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.

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- After reprogramming, pending DTC P2610:00 [PCM] will be stored without the Check Engine light ON. Start the engine and clear the DTC.
- After reprogramming, if DTC U2120:00 and/or U2500:82 are stored and the i-ACTIVSENSE warning light (amber) turns ON, refer to SA-043/20.

4. Disconnect the battery cable and wait for at least 2 minutes and 30 seconds, then reconnect the battery cable. (Self-diagnosis on the ESU is performed right after the battery reset.)

- If DTC B2002:49 has been cleared, proceed to next step.
- If DTC has not been cleared, replace the ESU with a new one according to the instructions on MGSS (ELECTRICAL SUPPLY UNIT (ESU) REMOVAL/INSTALLATION).

5. Clear the DTC, then turn the ignition off and get out of the vehicle.

6. Close and lock the doors.

7. Wait for at least 10 minutes.

8. Verify the repair by starting the engine and making sure the Check Engine light is OFF and no abnormal warning lights are ON.

NOTE: If any DTCs should remain after performing DTC deletion, diagnose the DTCs according to the appropriate troubleshooting on MGSS.

CALIBRATION INFORMATION

New file name	Old file name
BCKB-66S07-	BEMD-66S07-B

PARTS INFORMATION

Parts Number	Description	Qty.	Notes
BCKA-67-5Z0B	Electric Supply Unit (ESU)	1	Only when reprogramming cannot repair the vehicle.

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's New Vehicle Limited Warranty term.
- Additional diagnostic time cannot be claimed for this repair.

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ESU reprogramming only

Warranty Type	A
Symptom Code	64
Damage Code	9W
Part Number Main Cause	5555-67-5Z0
Quantity	0
Operation Number / Labor Hours:	XXS6LAFX / 0.3 Hrs.

ESU replacement

Warranty Type	A
Symptom Code	64
Damage Code	9W
Part Number Main Cause	BCKA-67-5Z0B
Quantity	1
Operation Number / Labor Hours:	XXS6LARX / 0.4 Hrs. (4-door) XXS6LBRX / 0.5 Hrs. (5-door)

ESU reprogramming and replacement

Warranty Type	A
Symptom Code	64
Damage Code	9W
Part Number Main Cause	BCKA-67-5Z0B
Quantity	1
Operation Number / Labor Hours:	XXS6LCRX / 0.5 Hrs. (4-door) XXS6LDRX / 0.5 Hrs. (5-door)

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