

<b>Subject:</b>  FUEL GAUGE FLUCTUATES TO HIGHER LEVEL	<b>Bulletin No.:</b> 09-034/22
	<b>Last Issued :</b> 08/23/2022

## BULLETIN NOTES

### APPLICABLE MODEL(S)/VINS

2019-2021 Mazda3 (Japan built) with VINS lower than JM1BP\*\*\*\*\*330387 (produced before January 7, 2021)

2019-2021 Mazda3 (Mexico built) with VINS lower than 3MZBP\*\*\*\*\*210192 (produced before January 7, 2021)

2020-2021 CX-30 with VINS lower than 3MVDM\*\*\*\*\*240455 (produced before January 7, 2021)

### DESCRIPTION

Some customers may complain about a fuel gauge that fluctuates to a higher level at a stop on inclines, even after a long drive since it was fully refilled. This is caused by improper control software of the body control module (BCM). To eliminate this concern, the control software of the BCM has been modified.

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

### REPAIR PROCEDURE

1. Verify customer concern.
2. Reprogram the BCM with the Mazda Modular Diagnostic System (M-MDS), using the Mazda Diagnostic And Repair Software (MDARS). Refer to MDARS ECU Reprogramming Procedure.
  - If the current calibration file name in the ECU FILENAME screen is the same as shown in the Calibration Files Information or with a later suffix, reprogramming is not necessary.
  - If the BCM needs to be reprogrammed, related ECU may need to be reprogrammed together. Refer to TSB 09-027/22 - WHEN REPLACING BCM, SOME ECU MAY NEED REPROGRAMMING, reprogram applicable ECU and explain to the customer about the low battery warning function.
  - If DTC U2120:00 or/and U2500:82 are stored and i-ACTIVSENSE warning light (amber) turns on after the reprogramming, refer to SA-043/20.
  - If the Welcome Lamp function is accidentally activated while using MDARS, it may also cause this concern. Check and correct as necessary. Refer to the SA-054/20 for details.
3. Clear the DTC, turn the ignition off, and get out of the vehicle.
4. Close and lock the door.
5. Wait for at least ten minutes.
6. 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 DTC should remain after performing a DTC erase, diagnose the DTC according to the instructions on MGSS.

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**CALIBRATION**

ECU/Model	2019-2020 Mazda3 4 DR SD (Japan built)	2021 Mazda3 4DR SD (Japan built)	2019-2020 Mazda3 4 DR SD (Mexico built)	2021 Mazda3 4DR SD (Mexico built)
BCM_MAIN	BCKB-66S02-	BFVV-66S02-E	BDTS-66S02-U	BGBL-66S02-E
BCM_SUB	BCKP-66S03-A	DGAS-66S03-	BCKP-66S03-A	DGAS-66S03-
LFU	BCKA-66S06-F	-	BCKA-66S06-F	-
IC	BDGF-66S14-N	BDGF-66S14-N	BDGF-66S14-N or BDTS-66S14-	BDGF-66S14-N or BDTS-66S14-
DOOR_ESU_D	BCKA-66S09-F	BCKA-66S09-F	BCKA-66S09-F	BCKA-66S09-F
DOOR_ESU_P	BCKA-66S08-F	BCKA-66S08-F	BCKA-66S08-F	BCKA-66S08-F
ESU	BCKB-66S07-A or DJB5-66S07-	BFVV-66S07-A	BCKB-66S07-A or DJB5-66S07-	BFVV-66S07-A

ECU/Model	2019-2020 Mazda3 5 DR HB (Japan built)	2021 Mazda3 5DR HB (Japan built)	2020 CX-30	2021 CX-30
BCM_MAIN	BEMD-66S02-U	BFWP-66S02-E	DGH9-66S02-K	DEJW-66S02-E
BCM_SUB	BCKP-66S03-A	DGAS-66S03-	BCKP-66S03-A	DGAS-66S03-
LFU	BCWK-66S06-E	-	DFR5-66S06-C	-
IC	BDGF-66S14-N	BDGF-66S14-N	DFR5-66S14-F	DFR5-66S14-F
DOOR_ESU_D	BCKA-66S09-F	BCKA-66S09-F	BCKA-66S09-F	BCKA-66S09-F
DOOR_ESU_P	BCKA-66S08-F	BCKA-66S08-F	BCKA-66S08-F	BCKA-66S08-F
ESU	BCKB-66S07-A or DJB5-66S07-	BFVV-66S07-A	BCKB-66S07-A or DJB5-66S07-	BFVV-66S07-A

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**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 and CA emission (long term).
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	65
Damage Code	9W
Part Number Main Cause	5555-67-560
Quantity	0
Operation Number / Labor Hours:	XXW42AFX / 0.3 Hrs.(Reprogramming BCM only) XXW42BFX / 0.6 Hrs. (Reprograming BCM and related ECU)

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