

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922



Subject: "ULTRASONIC SENSOR MALFUNCTION" MESSAGE IN INSTRUMENT CLUSTER	Bulletin No.: 09-030/23
	Last Issued : 07/18/2023

BULLETIN NOTES

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

Previous TSBs:	Date(s) Issued:
09-014/20	04/15/20

APPLICABLE MODEL(S)/VINS

2019-2020 Mazda3 (Japan built) vehicles with VINs lower than JM1 BP**** ** 176406 (Produced before Apr. 2, 2020)
 2019-2021 Mazda3 (Mexico built) vehicles with VINs lower than 3MZ BP**** ** 208787 (Produced before Nov. 14, 2020)
 2020-2021 CX-30 (Mexico built) vehicles with VINs lower than 3MV DM**** ** 231437 (Produced before Nov. 14, 2020)

DESCRIPTION

Some customers may experience "Ultrasonic sensor malfunction" warning message displayed in the instrument cluster when driving or at a stop. The warning message continues until the ignition is turned off. Upon inspection, one or more of following DTC are detected in the parking assist unit (ultrasonic).

B1B36:04	Front corner ultrasonic sensor (RH) signal circuit malfunction
B1B38:04	Front ultrasonic sensor (RH) signal circuit malfunction
B1B40:04	Front corner ultrasonic sensor (LH) signal circuit malfunction
B1B42:04	Front ultrasonic sensor (LH) signal circuit malfunction
B1B44:04	Rear corner ultrasonic sensor (RH) signal circuit malfunction
B1B46:04	Rear ultrasonic sensor (RH) signal circuit malfunction
B1B48:04	Rear corner ultrasonic sensor (LH) signal circuit malfunction
B1B50:04	Rear ultrasonic sensor (LH) signal circuit malfunction
B1B5A:04	Rear side ultrasonic sensor (RH) signal circuit malfunction
B1B5C:04	Rear side ultrasonic sensor (LH) signal circuit malfunction

This is caused by communication error(s) detected between the parking assist unit and the ultrasonic sensors from incoming electromagnetic noise. To eliminate this concern, the control program of the parking assist unit has been modified to not detect unnecessary communication errors and to stop the warning message as soon as the communication has recovered, even without turning the ignition off.

Page 1 of 4

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

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REPAIR PROCEDURE

1. Verify customer concern.
2. Reprogram the parking assist unit (**PAU** on MDARS) using the Mazda Diagnostic And Repair Software (MDARS). Refer to "MDARS - ECU Reprogramming Procedure".

NOTE:

- If the current calibration file name on the ECU FILENAME screen is the same as **B0J8-67UK2-D** (w/ front sonar) / **B0J9-67UK2-D** (w/o front sonar) or with a later suffix, reprogramming is not necessary.
- 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.

3. Verify the repair.

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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.
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	64
Damage Code	9W
Part Number Main Cause	5555-67-UU0
Quantity	0
Operation Number / Labor Hours:	XXS2LXFX / 0.3 Hrs.

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