

# Technical Service Bulletin

Mazda North American Operations  
Irvine, CA 92618-2922



<b>Subject:</b>  VIBRATION WHEN DRIVING AT 1500-1650 RPM	<b>Bulletin No.:</b> 01-001/25
	<b>Last Issued :</b> 02/06/2025

## BULLETIN NOTES

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

Previous TSBs:	Date(s) Issued:
01-009/20	07/08/20

## APPLICABLE MODEL(S)/VINS

2019-2020 Mazda3 2.5L (Japan built) vehicles equipped with cylinder deactivation with VINs lower than JM1 BP\*\*\*\* \*\* 176337 (Produced before Mar. 27, 2020)

2019-2020 Mazda3 2.5L (Mexico built) vehicles equipped with cylinder deactivation with VINs lower than 3MZ BP\*\*\*\* \*\* 136157 (Produced before Feb. 10, 2020)

2020 CX-30 2.5L (Mexico built) vehicles equipped with cylinder deactivation with VINs lower than 3MV DM\*\*\*\* \*\* 124335 (Produced before Feb. 10, 2020)

**NOTE:** Vehicles with cylinder deaction have a "M" as the 8th digit in the VIN for the 2.5L with cylinder deactivation.

## DESCRIPTION

Some customers may complain about a very low frequency noise and/or vibration felt at the steering wheel, the floor and/or the seats when driving at 1500-1650 rpm in any gear position. This may be caused by normal vehicle behavior while the cylinder deactivation is active (two cylinders drive). The state of the cylinder deactivation can be monitored in the center display to help verify if this is the issue.

**WARNING:** DO NOT keep your eyes focused solely on the display while test driving. For your safety, keep your eyes on the road ahead.

To correct this concern, the radiator mount brackets and the control software of the PCM have been modified to reduce the resonance of the radiator.

**NOTE:** The combination of the modified radiator mount brackets and older PCM calibration may result in worse vibration.

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

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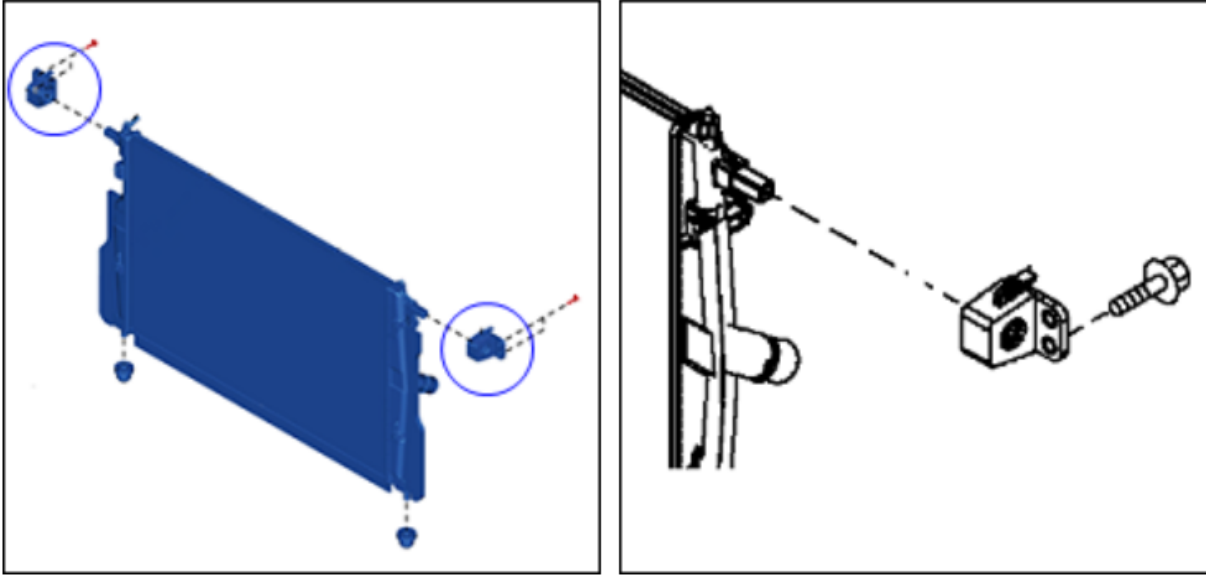
**REPAIR PROCEDURE**

1. Verify customer concern. The state of the cylinder deactivation can be monitored in the center display to help verify if this is the issue.

**WARNING:** DO NOT keep your eyes focused solely on the display while test driving. For your safety, keep your eyes on the road ahead.

2. Replace the radiator mount brackets with modified ones.

**Bolt tightening torque: 71-88 in-lb (82-101 kgf-cm, 8-10 Nm)**



3. **Mazda3 Only:** Verify the VIN of the vehicle.

- If the vehicle is within the VIN range below, go to step 4.
- If the vehicle is outside the VIN range below, PCM reprogramming is not necessary. Go to step 8.

**2019-2020 Mazda3:****Japan Built**

VIN Range		Production Date Range
JM1BP*****	100001-163204	Sep. 25, 2018 - Jan. 10, 2020

**Mexico Built**

3MZBP*****	100001-131963	Jan. 15, 2019 - Jan. 10, 2020
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**NOTE:** 2020 CX-30 does not need to be reprogrammed.

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

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## Reprogramming Procedure.

**NOTE:**

- If the current calibration file name on the ECU FILENAME screen is the same as shown in Calibration Information 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.

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

6. Close and lock the door.

7. Wait for at least ten minutes.

8. Verify the repair by starting the engine and making sure that all warning lights are off.

**NOTE:** If any DTC should remain after performing a DTC erase, diagnose the DTC according to the instructions on MGSS.

**CALIBRATION****2019-2020 Mazda3****US spec. (Japan built)**

Transmission	Drive	File Name	Notes
M/T	2WD	PX58-188K2-K	Mitsubishi
		PX59-188K2-K	Denso
A/T	2WD	PX05-188K2-L	Mitsubishi
		PX06-188K2-L	Denso
	4WD	PX07-188K2-N	Mitsubishi
		PX08-188K2-N	Denso

**US spec. (Mexico built)**

Transmission	Drive	File Name	Notes
A/T	2WD	PX13-188K2-F	Mitsubishi
		PX14-188K2-F	Denso
	4WD	PX15-188K2-F	Mitsubishi
		PX16-188K2-F	Denso

**PARTS INFORMATION**

Parts Number	Description	Qty.
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PEY1-15-241	Bracket (R), Radiator	1
PEY1-15-251	Bracket (L), Radiator	1

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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	83
Damage Code	99
Part Number Main Cause	PEY1-15-241
Quantity	1
Operation Number / Labor Hours:	Mazda3: XXS3CARX / 0.3 Hrs. (without PCM reprogramming) XXS3CBRX / 0.4 Hrs. (with PCM reprogramming)  CX-30: XXS3CARX / 0.3 Hrs.

**NOTE:** Claim PEY1-15-251 as related parts.

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