

Subject: HIGH-FREQUENCY NOISE FROM FUEL PUMP	Bulletin No.: 01-012/23
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BULLETIN NOTES

APPLICABLE MODEL/VINS

2024 CX-90 PHEV (SKYACTIV-G 2.5) with VINS lower than JM3KK*****147259 (produced before November 1, 2023)

DESCRIPTION

Some vehicles may exhibit a high-frequency noise from the fuel pump. When the fuel temperature is high, vaporization may occur in the return fuel from the pressure regulator valve assembled on the fuel pump unit. In that situation, the spring in the pressure regulator causes self-excited vibration, resulting in the high-frequency noise. To eliminate this concern, the shape of the pressure regulator valve in the fuel pump has been modified to control self-excited vibration by reducing pressure differences in the valve path.

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

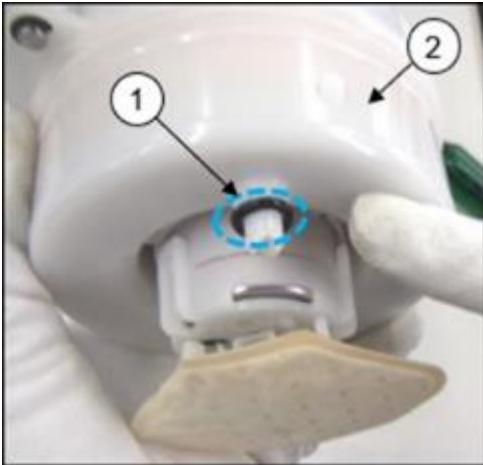
REPAIR PROCEDURE

1. Verify the customer concern.
2. Replace the pressure regulator in the fuel pump with a modified one according to the following procedures.
 - a. Remove the fuel pump unit according to the instructions on MGSS (FUEL PUMP UNIT REMOVAL/INSTALLATION).
 - b. Unhook (A) the tabs (1) on the fuel pump unit body (2) by using a flathead screwdriver (3), push down (B) the tabs, and remove the pressure regulator (4).



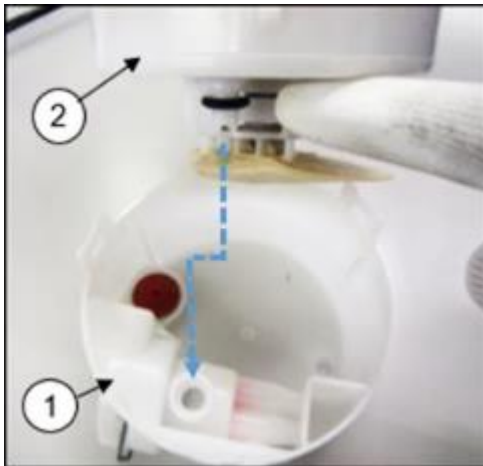
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c. Replace the O-ring (1) on the fuel pump unit body (2) with a new one.



d. Install the new pressure regulator (1) to the fuel pump body (2).

NOTE: Be careful with the direction of the fuel pump body when putting together.



Push the fuel pump unit straight.

e. Check that the three tabs are properly fitted.



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f. Install the fuel pump unit according to the instructions on MGSS (FUEL PUMP UNIT REMOVAL/INSTALLATION).

3. Verify the repair.

PARTS INFORMATION

Parts Number	Description	Qty.	Notes
PXFV-13-280	Pressure Regulator, Fuel	1	Including fuel pump unit O-ring
BJT6-42-165	Ring, 'O'	1	[R] for fuel tank

[R]: Replacement parts

NOTE: The part number has not been changed. However, all units in stock are modified ones.

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 Powertrain Limited Warranty term or California Emission Warranty (Long term).
- Additional diagnostic time cannot be claimed for this repair.

Warranty Type	A
Symptom Code	82
Damage Code	9W
Part Number Main Cause	PXFV-13-280
Quantity	1
Operation Number / Labor Hours:	XXWJPCRX / 0.9 Hrs.

NOTE: Claim O-ring as a related part.

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