

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922

**Subject:**

**INSUFFICIENT HEATER PERFORMANCE UNDER -4 °F (-20 °C)
OR COLDER ENVIRONMENT**

Bulletin No.: 07-001/23

Last Issued : 01/05/2023

BULLETIN NOTES**APPLICABLE MODEL(S)/VINS**

2022 MX-30

DESCRIPTION

Some customers may complain about insufficient heater performance under -4 °F (-20 °C) or colder environment. This is caused when the air conditioner is set to the defroster mode, cold air bypasses around the PTC heater and the warmed air at the PTC heater is cooled down by the cold air around it. This results in insufficient heater performance. To eliminate this concern, the cold air around the PTC heater has been reduced and the control software of the heat pump control unit has been modified to increase the output temperature of the PTC heater.

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

REPAIR PROCEDURE

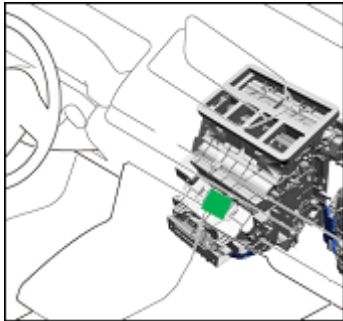
1. Verify the customer concern.
2. Add a heat resistant gasket to the top of the PTC heater according to the procedure below.

VIN Range					To add gasket
			from	to	
JM1	DR	**B* **	100001	(101332)*	Applicable
JM1	DR	**B* **	(101333)*	999999	Not applicable

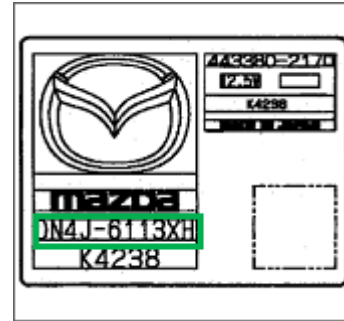
*If concerned VIN is around the one in parentheses in the table, confirm the part number on the label attached to the heater unit.

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VIN	Part Number	
	Before modified (to add gasket)	Modified (Not to add gasket)
Around 101332	DN4J-6113XG	DN4J-6113XH



Label on heater unit



Part number in label

3. Reprogram the heat pump control unit ("HP" in M-MDS) 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..

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

5. Close and lock the door.

6. Wait for at least ten minutes.

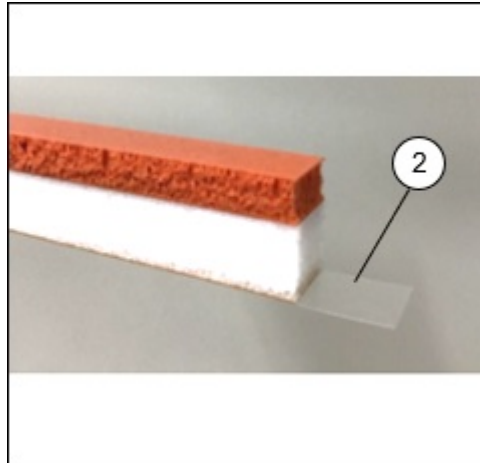
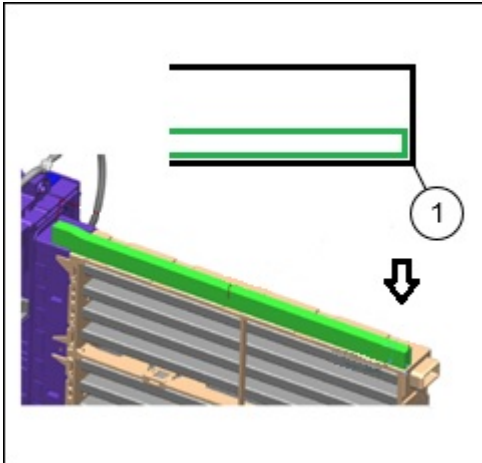
7. Verify the repair by turning the power ON (READY on) and making sure no abnormal warning lights are ON.

NOTE: If any DTCs remain after deleting DTCs, diagnose the DTCs according to the appropriate troubleshooting on MGSS.

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Heat resistant gasket installation procedure

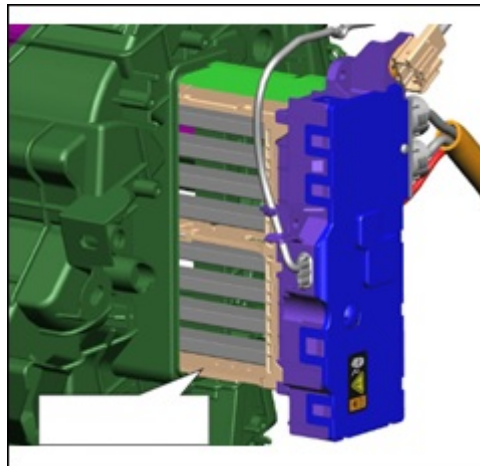
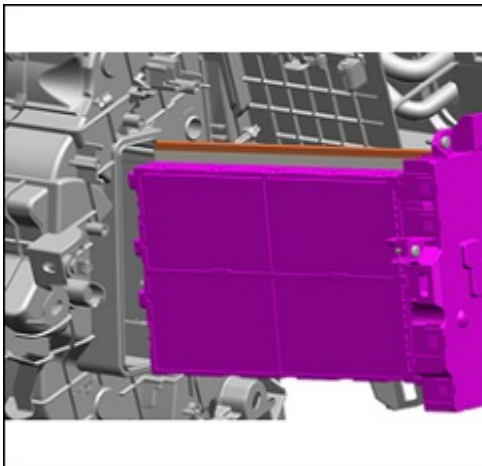
1. Remove the PTC heater according to the workshop manual (POSITIVE TEMPERATURE COEFFICIENT (PTC) HEATER REMOVAL/INSTALLATION).
2. Adhere the gasket to the top of the PTC heater.
 - Starting at the lower right corner (1) in the top view, align the gasket along with the frame.
 - Keep the gasket within the frame.
 - Keep the gap between the gasket and the frame 1.5 mm or less.
 - When removing the separator (2), take care not to remove the orange double sided tape from the white foam rubber.



3. Install the PTC heater to the heater unit.

NOTE: To prevent damage on the added gasket, take the following precautions:

- At first, insert the PTC heater diagonally.
- Insert the PTC heater so that the bottom of it moves along the bottom of the opening.



4. Install in the reverse order of removal.

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CALIBRATION

File Name
DN4J-66S18-F

PARTS INFORMATION

Parts Number	Description	Qty.	Notes
DN4J-61-J31	CASE'A',CO	1	Silicone foam rubber gasket
9YA01-1003A	BOLT	1	[R] for steering wheel
B455-32-099B	BOLT,SHAFT	1	[R] for upper joint of intermediate shaft
D10J-32-099	BOLT,SHAFT	1	[R] for lower joint of intermediate shaft

[R]: Replacement parts

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	59
Damage Code	9W
Part Number Main Cause	7777-SP-W38
Quantity	0
Operation Number / Labor Hours:	XXT79XFX / 0.3 Hrs (Reprogramming only) XXT79AAX / 3.3 Hrs. (Gasket installation only) XXT79AFX / 3.4 Hrs. (Gasket installation and reprogramming)

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