

Technical Service Bulletin

Mazda North American Operations
Irvine, CA 92618-2922



Subject: POOR A/C PERFORMANCE DUE TO LEAKING REFRIGERANT FROM THE AIR CONDITIONER CONDENSER OR PIPE	Bulletin No.: 07-003/22
	Last Issued : 10/20/2022

BULLETIN NOTES

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

Previous TSBs:	Date(s) Issued:
07-003/22	08/22/22

APPLICABLE MODEL(S)/VINS

2016-2022 CX-9

DESCRIPTION

Some customers may complain about poor A/C performance due to low refrigerant. This may be caused by one of two things.

Cause 1: [For 2016-2022 CX-9 with VINS lower than JM3TC*****617612 (produced before April 7, 2022)] The condenser is corroded causing leakage of the A/C refrigerant. To eliminate this concern, the anti-corrosion performance of the condenser tube has been improved.

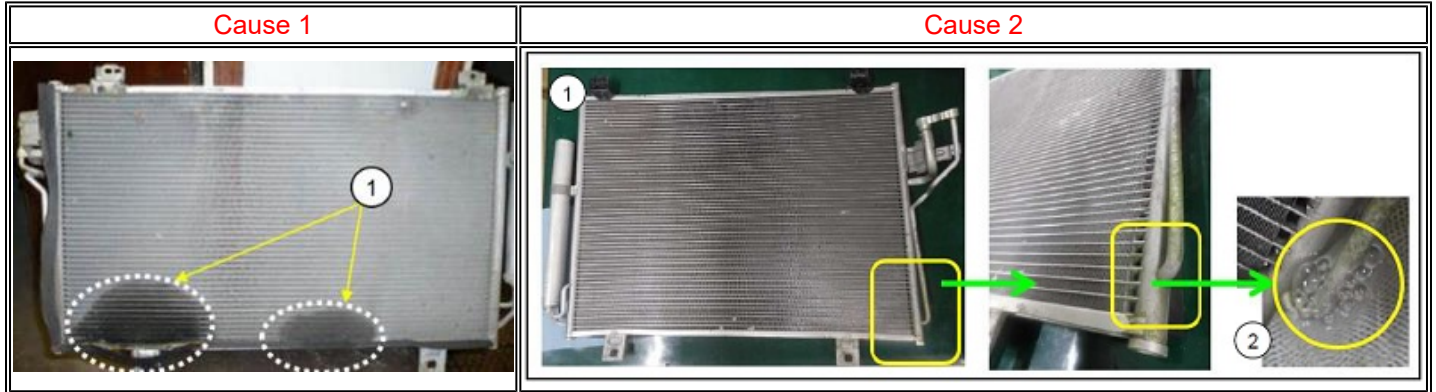
Cause 2: [For all 2016-2022 CX-9] The low-temperature side outlet pipe leading to the evaporator of the air conditioner condenser has deteriorated because the structure around the outlet pipe on the low-temperature side of the air conditioner condenser allows mud and salt water to adhere easily. There is no mass production change, but an improved condenser was designed as needed.

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

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REPAIR PROCEDURE

1. Verify the customer concern.
2. [For Cause 1] Check for A/C refrigerant leak as shown in the area (1) without stone chipping damage.
[For Cause 2] Use a gas leak tester or a fluorescent agent-detecting UV black light to check if there is a leak from the condenser (1) from the area shown (2) in the figure.



- If gas leaks from one of these areas, replace the condenser with a modified one.
 - 2016-2020 CX-9 (CONDENSOR REMOVAL/INSTALLATION)
 - 2021-2022 CX-9 (CONDENSOR REMOVAL/INSTALLATION)
- If there is no gas leak from these areas, troubleshoot the poor A/C performance according to the instructions on MGSS.

3. Verify the repair.

PARTS INFORMATION

Parts Number	Description	Qty.	Notes
TCYM-61-480	Condensor	1	---
W257-61-J17	Ring, 'O'-No.1	1	---
W326-61-J17	Ring, 'O'-No.1	1	---
D1Y1-61-K39	Compressor Oil (250 ml)	1	1 compressor oil repairs 6 vehicles (40 ml each)
5555-FG-002	Refrigerant	As required	---

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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	77
Damage Code	9E
Part Number Main Cause	TC3M-61-480
Quantity	1
Operation Number / Labor Hours:	<p style="text-align: center;">Cause 1</p> <p>XXW6JARX / 2.1 Hrs. (US/Canadian spec without ATF (oil) cooler No. 2)</p> <p>XXW6JCRX / 2.3 Hrs. (Mexico spec with ATF (oil) cooler No. 2)</p> <p style="text-align: center;">Cause 2</p> <p>XXW4EARX / 2.1 Hrs. (US/Canadian spec without ATF (oil) cooler No. 2)</p> <p>XXW4EBRX / 2.3 Hrs. (Mexico spec with ATF (oil) cooler No. 2)</p>

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