

<b>Subject:</b>  <b>A/C SYSTEM NOT MAINTAINING CORRECT TEMPERATURE OR INSTRUMENT CLUSTER AMBIENT TEMPERATURE IS INCORRECT</b>	<b>Service Alert No.: SA-074/22</b>
	<b>Last Issued : 11/14/2022</b>

## BULLETIN NOTES

### APPLICABLE MODEL(S)/VINS:

2019-2022 Mazda3  
2017-2021 Mazda6  
2016-2022 CX-3  
2020-2022 CX-30  
2013-2022 CX-5  
2016-2022 CX-9  
2016-2022 MX-5

## DESCRIPTION

Some customers may complain the HVAC system not maintaining the correct temperature or the ambient (outside) temperature reading incorrectly. This is caused by a failure in the ambient temperature sensor. To correct this issue, the ambient temperature sensor has been modified.

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

## REPAIR PROCEDURE

1. Verify the customer concern.
2. Inspect the ambient temperature sensor connector and harness and verify the condition of the harness.

### Is the Harness OK?

- **Yes** - Go to next step.
- **No** - Repair as necessary, then go to next step.


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3. Remove ambient temperature sensor according the the instructions in MGSS online and verify the LOT Number.

- Mazda3
  - AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [MANUAL AIR CONDITIONER]
  - AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER]
- Mazda6
  - AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION
- CX-3
  - AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [MANUAL AIR CONDITIONER]
  - AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER]
- CX-30
  - AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [MANUAL AIR CONDITIONER]
  - AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER]
- 2013-2016 CX-5
  - AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [MANUAL AIR CONDITIONER]
  - AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER]
- 2017-2022 CX-5
  - AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [MANUAL AIR CONDITIONER]
  - AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER]
- CX-9
  - AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION
- MX-5
  - AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [MANUAL AIR CONDITIONER]
  - AMBIENT TEMPERATURE SENSOR REMOVAL/INSTALLATION [FULL-AUTO AIR CONDITIONER]

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**NOTE:** The ambient temperature sensor countermeasure started in Lot 0411 of 2021/Dec. See LOT information below:

Ambient Temperature Sensor Countermeasure	
<p><b>LOT Number</b> 202112AS0411</p> <ul style="list-style-type: none"> <li>First 4 digits - Year</li> <li>Digit 5-6 - Month</li> <li>Digit 7-8 - Production Line Identification Code</li> <li>Last 4 digits - Product Lot (number assigned to each lot)</li> </ul>	 <p>Example: 2021 12 AS 0411 = Dec/2021 Lot Number 411</p>

4. Check the lot number.

**Is the lot number before Lot 0411 of 2021/Dec?**

- Yes** - Confirm Lot number of new sensor is Lot 0411 of 2021/Dec or later then replace the ambient temperature sensor according to the instructions in MGSS online (see step 3).
- No** - This service information does not apply. Refer to to normal MGSS troubleshooting.

5. Verify the repair.

**PARTS INFORMATION**

Parts Number	Description	Qty.	Notes
G518-61-764A	SENSOR, AMBIENT	1	Check LOT Number of new part. Only use if lot number is Lot 0411 of 2021/Dec or later. See Repair Procedure for LOT Number information

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