Service Alert

Mazda North American Operations Irvine, CA 92618-2922



Subject:

WHEEL BEARING NOISE MISDIAGNOSED AS TRANSMISSION, TRANSFER UNIT OR DIFFERENTIAL

Service Alert No.: SA-006/22

Last Issued: 03/09/2022

BULLETIN NOTES

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

Previous Service Alerts:	Date(s) Issued:
SA-006/22	02/28/22
SA-032/21	05/11/21
SA-016/19	04/08/19

APPLICABLE MODEL(S)/VINS

2012-2022 Mazda3	2016-2021 CX-3	2016-2022 Mazda2
2013-2022 CX-5	2016-2022 CX-9	2020-2022 CX-30
2014-2021 Mazda6	2016-2022 MX-5	2023 CX-50

DESCRIPTION

There have been warranty claims submitted for growling or bearing whine noise in differentials, transfer units and transmissions where the source of the noise was a wheel bearing. This misdiagnosis can lead to multiple repair attempts, warranty debits, and additional inconvenience and/or cost to the customer. To reduce the chance of this occurring, please follow the steps outlined in the repair procedure.

REPAIR PROCEDURE

- 1. Before test driving the vehicle, visually inspect the tires for excess or unusual wear and verify they are all the same size, brand, and overall wear.
- 2. Compare the vehicle to another like vehicle (same trim, model year, and tires) to confirm the concern is not a characteristic of the vehicle.

NOTE: Record the noise heard in the customer vehicle and make a recording in the known good vehicle when driven under the same conditions.

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- 3. Check for another published document for the vehicle you are working on that describes the noise. **Is there another published document?**
 - · YES: Follow that repair procedure first and retest.
 - NO: Continue to the next step.
- 4. Lift both vehicles in the air.
 - a. Run both vehicles at the speed the noise is heard on the road. **Are both vehicles equal in operational noise when run on the rack?**

YES: Go to step 5. **NO:** Go to step b.

b. Use a stethoscope and listen to each wheel bearing and compare it to the known good vehicle. **Are any bearings** significantly noisier on the customer's vehicle vs. the known good vehicle?

YES: Replace the suspect bearing(s).

NOTE: If you can hear the noise without a stethoscope, make a recording of it and then make a recording of the known good vehicle under the same conditions.

NO: Go to step 5.

5. If the source of the noise was not confirmed in the previous steps, swap the wheels and tires with those from a known good vehicle.

NOTE: If tires are required, contact the tire manufacturer for warranty replacement. Contact phone numbers for the various brands are found in the *Mazda Quick Reference to Warranty* booklet. In the 2021 edition, it is found on page 26.

6. Contact the Technical Assistance Hotline with all of your test results.

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