



SIB 33 01 26

REAR AXLE WHEEL BEARING COMPLAINTS

2026-02-18

<input type="checkbox"/>	THIS REPAIR IS MOBILE FRIENDLY
<input type="checkbox"/>	THIS REPAIR IS REMOTE SOFTWARE UPGRADE (RSU) FRIENDLY

MODEL

E-Series	Model Description	Production Date
U10	X2 Sports Activity Coupe	September 2022 to April 3, 2025
U11	X1 Sports Activity Vehicle	November 2023 to April 3, 2025

SITUATION

1. Noise complaint:

Humming or clicking type noise in the speed range of 15 – 65 mph can be heard from the rear axle. See attached video “V33 01 26 Humming” and “V33 02 26 Clicking”
The noise may be amplified depending on road speed.

Or

2. Fault memory entry:

Customer has Dynamic Stability Control malfunction indicator lamp and/or related Check Control Message. The following fault codes are found in the Integrated Brake module fault memory:

4809B7: Wheel speed sensor - rear left - tooth missing
4809C2: Wheel speed sensor - rear right - tooth missing
480AB4: Wheel speed sensor - rear right – noise monitoring
480AAD: Wheel speed sensor - rear left – noise monitoring

CAUSE

1. Noise complaint: Insufficient protection allows water to ingress directly into the wheel bearing which can also lead to corrosion of the wheel bearing inner race.

And / or:

2. Fault memory entry: Foreign particles/corrosion at the interface to the wheel speed sensor.

CORRECTION

Replace both rear axle wheel bearings.

PROCEDURE

1. Noise complaint:

Replace both rear axle wheel bearings as per REP 33 41 180 Replacing the rear wheel bearing.

2. Fault memory entry:

Perform vehicle test and confirm Integrated Brake system fault memory entry of one of the listed fault codes:
4809B7: Wheel speed sensor - rear left - tooth missing
4809C2: Wheel speed sensor - rear right - tooth missing
480AB4: Wheel speed sensor - rear right – noise monitoring
480AAD: Wheel speed sensor - rear left – noise monitoring

With fault code verified, replace both rear axle wheel bearings as per REP 33 41 180 Replacing the rear wheel bearing.

PARTS INFORMATION

To determine the part numbers that apply to the specific vehicle being repaired, enter the VIN / Chassis number into either ETK or AIR, this will consider the specific equipment and/or options that are fitted to the vehicle.

Part Number	Description	Quantity
31 20 8 882 498	Wheel hub with bearing	2
31 10 6 894 168	Multi-purpose bolt (M12x1.25x33ZNS3)	8
34 10 6 864 424	Torx screw with washer (M12x1.5x43 ZNS3)	4
34 20 6 850 560	Hex bolt (M8x22)	4
31 20 6 795 249	Collar screw with spring (M16x1.5x72-8.8)	2
83 12 2 296 187	Brake pad paste	1

Additionally, other materials and small parts that are not specified above, such as fluids, lubricants (in sublet), one-time use screws, nuts, and seals, which must be replaced or installed (according to the ISTA repair instructions/ETK/AIR), are to be selected from the Electronic Parts Catalog, and/or other approved BMW Group's resources according to the respective vehicle type. Invoiced these items separately under the Repair Code listed in this bulletin.

CLAIM INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks, or the BMW Certified Pre-Owned Program as described below.

Repair Codes:	3341033900	Rear wheel bearing Unpleasant noises (1)
	Or:	
	3341031500	Rear wheel bearing Permanent malfunction (Related Fault Codes Stored) (2)

Obtain the flat rate unit (FRU) allowances for the following that applies.

Labor Operation	Description	Labor Allowance
00 00 006	Carrying out vehicle test (Main work)	As applicable
Or:		
00 00 556	Carrying out vehicle test (Plusposition work)	As applicable
And:		
61 21 528	Supporting voltage of the vehicle electrical system / recharging vehicle battery	As applicable
And, as needed:		
61 00 006*	Carrying out vehicle diagnosis, ABL (Work time) including confirming the source of the noise is from the rear bearings	WT FRU
Or:		
00 58 500*	Diagnosis Worktime Flat Rate	2 FRU
And:		
33 41 681	Replacing both bearings for rear wheels (including removing and installing the rear brake pads and discs)	As applicable

If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead of 00 00 006, or exclude them (including 61 21 528) when the Vehicle Test is included in another repair.

(*) Based on which one applies to your center, please refer to **SI B01 01 20** or **B01 07 20** for the applicable procedure for

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work time (WT), and the vehicle repairs your center performed, unless otherwise required by State law.

BMW Group's AIR Application Resource for Flat Rate Labor Operation Codes

To obtain the corresponding flat rate unit (FRU) allowance information from the BMW Group AIR application resource, start by entering the Chassis Number (last seven (7) characters of the VIN), and click on the "Search" icon. If the "Vehicle Selection" window displays two or more model possible vehicle choices, select the applicable Model, or enter the full VIN (17 characters) instead to proceed. Click on the "Flat Rate Units" button and enter a flat rate labor operation code number "without spaces" in the field to the right, click on the "Search" icon to display the corresponding listing of "Flat rate unit group details" that are available and their corresponding FRU allowances.

Maintenance Program - BMW Ultimate Care + Full (With Brake Pad Coverage)

If the vehicle has an active BMW Ultimate Care + Full maintenance program with brake pad coverage and the Rear Brake Pad Service task shows Recommended, Due or Bundling Eligible (BE), then:

- Perform the Rear Brake Pad Service task in conjunction with the above repair, and
- Reset the CBS data

Only submit and claim for the brake pad service task-related parts (No labor) under the BMW Maintenance Program Brake Repair Code that applies.

FEEDBACK REGARDING THIS BULLETIN

Technical Feedback	To submit feedback for the technical topic of this bulletin: Submit your feedback in the rating box at the top of this bulletin
Warranty Feedback	To submit feedback for the CLAIMS section of this bulletin: Submit an IDS ticket to the Warranty Department, or use the chat available in the Warranty Documentation Portal
Parts Feedback	To submit feedback for the PARTS section of this bulletin: Submit an IDS ticket to the Parts Department

Supporting Materials

Videos

[33 01 26](#)

[33 02 26](#)

