



SIB 33 02 21

2021-04-01

KNOCKING NOISE FROM THE REAR AXLE OVER UNEVEN ROAD SURFACES

MODEL

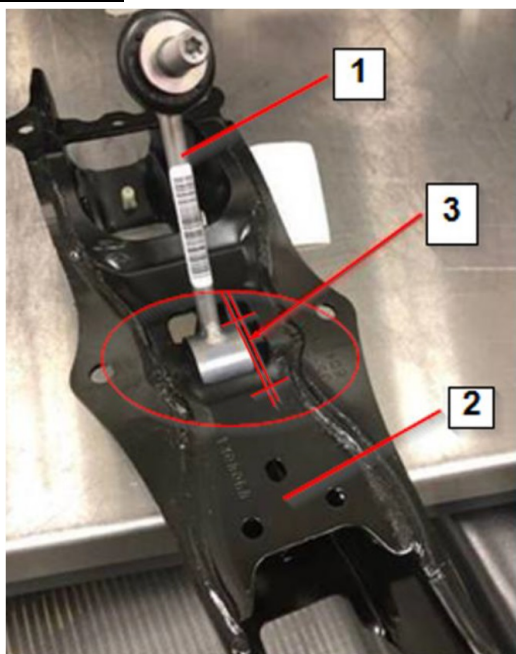
E-Series	Model Description	Production Date
F95	X5 M Sports Activity Vehicle	December 1, 2019 to April 30, 2021
F96	X6 M Sports Activity Coupe	December 1, 2019 to April 30, 2021

SITUATION

Knocking noises coming from the rear axle when cornering slowly and/or traveling over uneven road surfaces.

The noise can be reproduced by quickly turning the steering wheel from side to side (less than 90 degrees) at low speeds as seen in the attached video V33 01 21.

CAUSE



An unfavorable gap (3) may exist between the rear swing support (1, aka sway bar link) and the camber arm (2).

Photo shows components removed from the vehicle for clarity.

CORRECTION

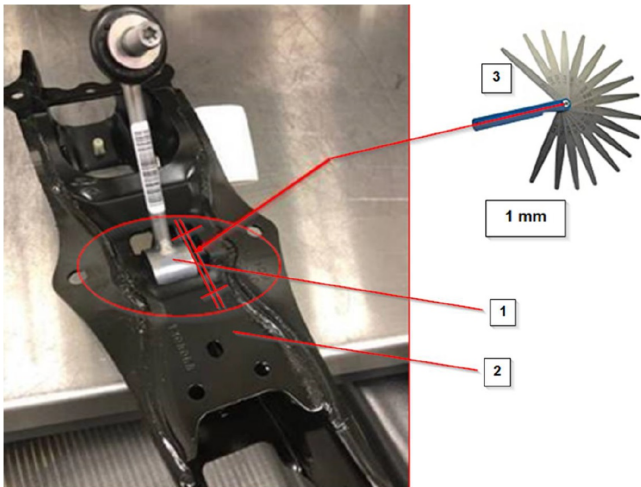
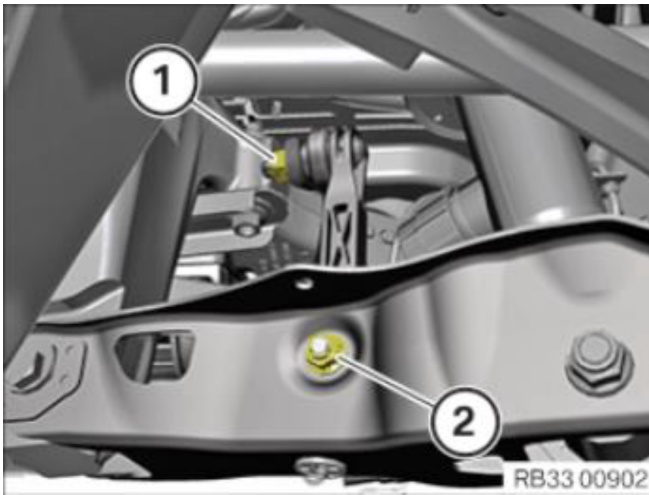
If the noise can be reproduced as heard in the video, then the gap between the rear swing support and camber arm must be checked and minimized.

PROCEDURE

The check of the rear swing support and camber arm should be checked on both sides of the rear axle.

1. Loosen the rear swing support connection (1) on the rear stabilizer bar to allow the swing support to move in the camber arm.

Replace the nuts and tighten as per **REP33 55 041**.

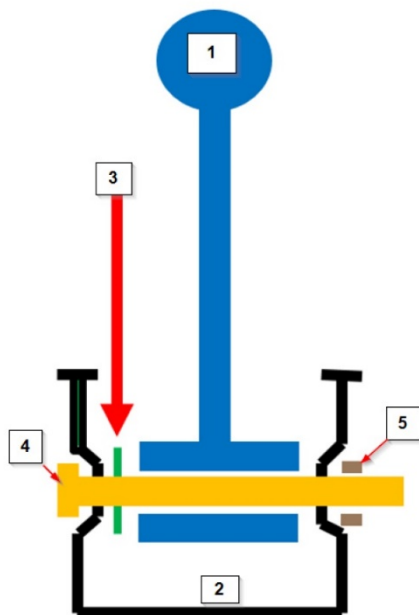


2. Check the gap between the inner sleeve of the rubber mounts on the rear swing support (1) and the camber arm (2) using a feeler gauge (3) to see if a 1 mm space is present.

3. Is the gap greater or equal to 1 mm?

Yes, proceed to the next step

No, Further diagnostics for another cause to be found



4. Install a 20x10x1 mm washer (3) between the inner sleeve of the rubber mounts of the rear swing support (1) and camber arm (2).

The washer must be installed on the bolt head side (4) between the swing support (1) and camber arm (2).

PARTS INFORMATION

Obtain and confirm the part numbers for your specific vehicle by entering the chassis number in either ETK or AIR which takes into account specific equipment and/or options.

Part Number	Description	Quantity
31 30 7 885 537	Washer 20x10x1	Up to 2
37 10 6 789 678	Hex nut with flange (M12x1,5-10-ZNS3)	2
31 10 6 863 105	ASA-Bolt (M10x55)	Up to 2
33 55 6 790 913	Hexagon nut with collar (M10-10 ZNS3)	Up to 2

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks.

Defect Code:	3355023900	Rear axle anti-roll bar link Unpleasant noises

Labor Operation	Description	Labor Allowance
33 55 040	Replacing (accessing) anti-roll bar links for anti-roll bar (Main work)	Refer to AIR
Or:		
33 55 540	Replacing (accessing) anti-roll bar links for anti-roll bar (Plus work)	Refer to AIR
And		
35 99 000*	Check the gap between the inner sleeve of the rubber mounts on the rear swing support (Both sides)	2 FRU
Or		
00 58 000*	Diagnosis Worktime Flat Rate (See below)	2 FRU

Refer to AIR for the corresponding flat rate unit (FRU) allowances.

Work time labor operation codes 35 99 000 and 00 58 000 are not considered Main labor operations.

*As applicable to your center, please refer to **SI B01 01 20** or **B01 07 20** for claiming your diagnosis work time, job/repair work time (WT), RO/Claim WT and/or repair explanation procedures, unless otherwise required by State law.

Claim Repair Comments

Please confirm on the RO and in the claim comments if either one or both sides required modification after inspection.

Other Repairs (Either the repair described in this bulletin did not apply or for additional repairs)

If other eligible and covered work is performed as a result of performing diagnosis, claim this work with the applicable defect code and the labor operations listed in AIR (including diagnosis).

QUESTIONS REGARDING THIS BULLETIN

Technical inquiries	Submit feedback at the top of this bulletin
Warranty inquiries	Please contact the Warranty department by either using the Live Chat that's available in the Warranty Documentation Portal or through IDS by selecting Coverage, Policy, Coding Questions and Mileage Corrections
Parts inquiries	Submit an IDS ticket to the Parts Department

Supporting Materials

Videos

[33 01 21](#)