




SI B33 03 18
Rear Axle

January 2019
Technical Service

KNOCKING NOISE OR VIBRATION/DRONING NOISE FROM THE REAR AXLE

New information provided by this revision is preceded by this symbol  .

This Service Information bulletin replaces SI B33 03 18 dated **November 2018**

What's New:

- Changes to Procedure
- Warranty Information has changed
- Parts Information has been updated

MODEL

F80 (M3)	F82 (M4)	F83 (M4 Convertible)	F87 (M2)
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SITUATION

A hard knocking noise is heard from the rear axle area during load reversals.

CAUSE

The tuning of the rear suspension mount for the differential.

CORRECTION

Replace the rear differential mount if the specified sound can be reproduced as detailed below.

PROCEDURE

1. Confirm the noise is being produced by the tuning of the differential mount in one of the following testing conditions:

For **Situation 1: knocking noise**

- Drive the car for 5 -10 miles to warm up the driveline.
- Operate the engine in the range of 3000 – 5500 rpm
- Let off the throttle and then immediately step back on the accelerator.
- Perform these steps in Comfort, Sport and Sport Plus modes.

Were you able to reproduce the noise?

YES – go to step 2.

NO – continue diagnosis.

UPDATE! **NOTE:** Refer to SI [B26 01 18](#) for a clicking/knocking noise when load reversal from Reverse to Drive.

2. Replace the rear differential suspension mount following Repair Instruction **33 17 005 Replacing the rubber mounts for the rear axle final drive suspension at rear.**

PARTS INFORMATION

Part Number	Description	Quantity
UPDATE! 33 17 7 852 495	Rubber mounting (up to 7/2018)	1
Or:		
UPDATE! 33 17 8 094 690	Polyurethane rubber mount rear (7/2018 and later)	1

Refer to the ETK and the repair instructions for one-time use fasteners and/or component information regarding additional or replacement screws, gaskets, and seals that need to be installed and claimed.

UPDATE! WARRANTY INFORMATION

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

Defect Code:	UPDATE! 3310105700	Knocking noise on load reversal (Situation 2)
Labor Operation:	Labor Allowance:	Description:
33 17 005	Refer to AIR/KSD2	Replacing the rubber mount for the rear axle final drive suspension at the rear (Main work)
Or:		
33 17 505	Refer to AIR/KSD2	Replacing the rubber mount for the rear axle final drive suspension at the rear (Plus work)
And, as necessary:		
33 99 000	Work time (WT)	UPDATE! Work time to confirm the source of the noise is being produced (vehicle is already in the workshop)

If you are using a Main labor code for another repair, use the Plus code labor operation 33 17 505 instead of 33 17 005.

UPDATE! Work time labor operation code 33 99 000 is not considered a Main labor operation; however, it does require an individual punch time and an explanation on the repair order and in the claim comments section

And, with the above:

Checking Wheel Alignment

Labor Operation:	Labor Allowance:	Description:
32 00 595	Refer to KSD2	Wheel alignment check KDS with ride-height measurement, without load

And, if and as necessary:

Adjusting

Labor Operation:	Labor Allowance:	Description:
32 00 601	Refer to KSD2	Adjusting toe-in on front axle
Or:		
32 00 620	Refer to KSD2	Adjusting rear axle
Or:		
32 00 630	Refer to KSD2	Adjusting rear axle and front axle

Refer to KSD2/AIR for the corresponding flat rate unit (FRU) allowances.



Other Repairs

If other eligible and covered work is performed as a result of performing "continued diagnosis," claim this work with the applicable defect code and the labor operations (including diagnosis) that are listed in the AIR/KSD2.

Posted: Thursday, January 10, 2019

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