



SI B33 03 18
Rear Axle

November 2018
Technical Service

KNOCKING NOISE OR VIBRATION/DRONING NOISE FROM THE REAR AXLE

MODEL

F80 (M3)	F82 (M4)	F83 (M4 Convertible)	F87 (M2)
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Vehicles built up to 7/31/2018

SITUATION 1

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

SITUATION 2

A humming/droning noise is heard with vibration during partial to full engine load in higher gears.

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.

For **Situation 2: vibration/droning noise:**

- Drive the vehicle with the transmission in sixth gear
- Operate the engine in the range of 2500 – 3100 rpm (may also be produced at 4500-5500 rpm range)

Were you able to reproduce the noise?

YES – go to step 2.

NO – continue diagnosis.

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
33 17 8 094 690	Polyurethane rubber mount rear	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.

WARRANTY INFORMATION

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

Defect Code:	3317003700	
Labor Operation:	Labor Allowance:	Description:
33 17 005	Refer to KSD2/AIR	Replacing the rubber mount for the rear axle final drive suspension at the rear (Main work)
Or:		
33 17 505	Refer to KSD2/AIR	Replacing the rubber mount for the rear axle final drive suspension at the rear (Plus work)

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.

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.

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