



SI B33 01 19
Rear Axle

January 2019
Technical Service

DRONING NOISE FROM THE REAR AXLE

MODEL

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

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:
 - 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 7 852 495	Rubber mounting (up to 7/2018)	1
Or:		
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.

WARRANTY INFORMATION

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

Defect Code:	3317003700	Vibration or droning noise (Situation 1)
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)	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.

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 AIR/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 AIR/KSD2	Adjusting toe-in on front axle
Or:		
32 00 620	Refer to AIR/KSD2	Adjusting rear axle
Or:		
32 00 630	Refer to AIR/KSD2	Adjusting rear axle and front axle

Refer to AIR/KSD2 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.

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