

**SUBJECT****Rubbing Noise from Front Axle****MODEL**

F01, F02 with xDrive (7 Series Sedan)

SITUATION

A rubbing or creaking noise is heard from the front axle when driving over uneven road surfaces.

CAUSE

The vibration dampener in the front axle support is pressing against the front axle support.

CORRECTION

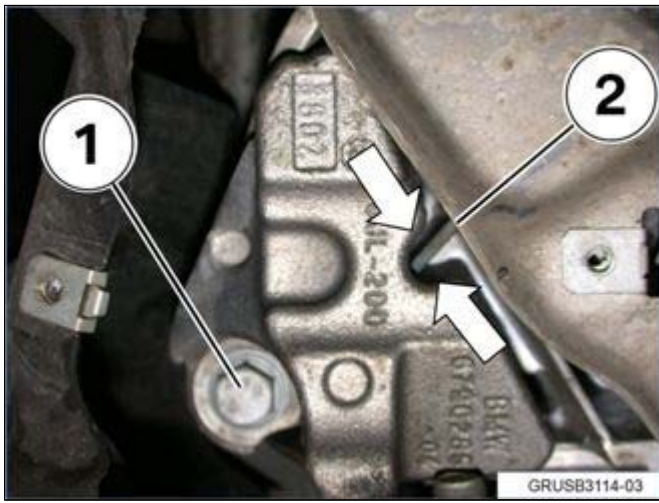
Verify the noise is coming from the driver's side front axle. Secure and raise the vehicle to remove both front and rear engine underbody protection panels. Inspect the vibration absorber (refer to Repair Instruction RA 51 47 490 and 491 to remove the panels).



Inspect the position of the vibration absorber, which is located on the left side of the axle support (1).



The vibration absorber **should not** make contact with the bracing of the axle support (1). If the vibration absorber is already in the correct position (see figure below), further diagnosis will be needed to find the cause of the noise.



Loosen the M12x1.5x145 bolt (1) in the axle support enough to rotate the vibration absorber. Position the vibration absorber so there is an equal gap around the bracing on the axle support (2). Torque the axle support bolt to 100Nm after adjusting the vibration absorber.

Reinstall the underbody protection panels (tighten the screws to 3Nm) and test drive to confirm the repair.

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle/SAV Limited Warranty.

Defect Code:	31 11 01 37 00	
Labor Operation:	Labor Allowance:	Description:
51 47 495	Refer to KSD2	Removing and installing or replacing front and rear splash guards
and		
31 99 000	2 FRU	Work time to reposition the vibration absorber

Labor operation code 51 47 495 is a Main labor operation. If you are using a Main labor code for another repair, use the Plus code labor operation 51 47 995 instead.

Even though work time labor operation code 31 99 000 ends in “000”, it is not considered a Main labor operation. Also, as outlined above, since the “work time” FRU allowance to be claimed is specified, a separate punch time is not required.

Note: If the splash guards are already removed to perform another repair, please do not claim labor operation 51 47 495 or 51 47 995.

Refer to KSD2 for the corresponding flat rate unit (FRU) allowance. Enter the Chassis Number, which consists of the last 7 digits of the Vehicle Identification Number (VIN). Click on the “Search” button, and then enter the applicable flat rate labor operation in the FR code field.

Other Repairs

If the vibration absorber is found to be in the correct position and further diagnosis results in other eligible and covered work, claim this work with the applicable defect code and/or labor operations listed in KSD2.