



## SUBJECT

### Vibration at Idle

## MODEL

E60 with N52K

## SITUATION

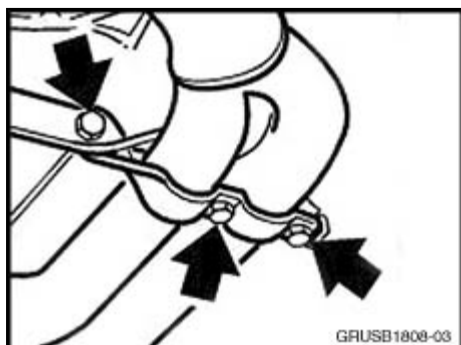
Customer may complain of a slight vibration and/or droning noise when the vehicle is idling in park, neutral, drive and reverse when engine is at operating temperature.

## CAUSE

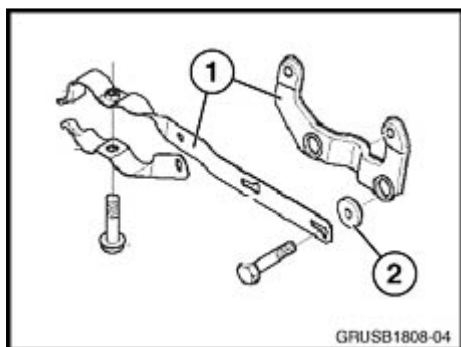
Insufficient vibration dampening of the exhaust system.

## PROCEDURE

1. Verify the complaint. Vibration/droning is most prevalent when engine is at operating temperature.

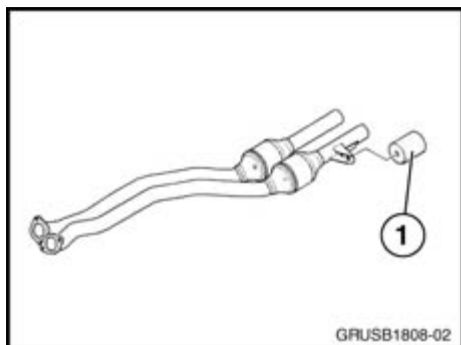


2. Remove the lower bracket for the exhaust system. If droning/vibration is gone, proceed to step three. If vibration/droning still exists with the lower bracket removed; continue troubleshooting exhaust/driveline for other causes or conditions



3. Remove complete bracket assembly and replace it with the bracket (1) PN 18 20 7 521 346 using two new ASA bolts (PN 07 12 9 905 417). Tighten to 21Nm.  
Install front pipe bracket (1) PN 18 20 7 521 347 with four rubber bushings (2) (PN 18 20 7 546 579) to the new 346 bracket with two ASA bolts (PN 07 12 9 904 559) and two nuts (PN 07 12 9 904 580). Tighten down to 21Nm

4. Replace the stock 88Hz exhaust vibration dampener



(1) with the 32hz dampener PN 18 10 7 506 145.  
Tighten to 21Nm.

After performing this procedure the vehicle will exhibit the same amount of normal driveline vibration as a comparably equipped E60 with a M54 or N52 engine

#### PARTS INFORMATION

Part Number	Description	Quantity
18 20 7 521 346	Bracket	1
18 20 7 521 347	Bracket, front pipe	1
18 20 7 521 348	Clamp	1
18 20 7 544 250	Torx screw with collar	1
07 12 9 905 417	ASA-Bolt	2
18 20 7 546 579	Rubber bushing	4
07 12 9 904 559	ASA-Bolt	3
07 12 9 904 580	Hex nut	3
18 10 7 506 145	Vibration dampener	1

#### WARRANTY INFORMATION

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

**Defect Code:** 18 11 00 39 00

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
18 99 000*	10 FRU	Exhaust System, unpleasant noises

\*Main Work - use this labor operation number when this is the only repair being performed, or if this is the main repair when performed along with other repairs at the same time. If this is not the main repair, refer to KSD for the associated (+) labor operation code.

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