



SIB 32 08 19

THUMPING NOISE FROM FRONT AXLE WHILE STEERING

This Service Information Bulletin (Revision 1) replaces SI B32 08 19 **dated September 2019**.

What's New (Specific text highlighted):

- Model
- Situation

MODEL

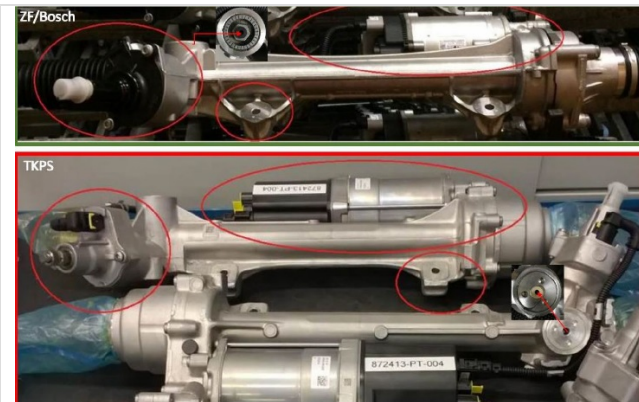
F22 (2 Series Coupe)	F23 (2 Series Convertible)	F30 (3 Series Sedan)	F31 (3 Series Sports Wagon)
F32 (4 Series Coupe)	F34 (3 Series Gran Turismo)	F36 (4 Series Gran Coupe)	All models without option code SA2VL Variable sport steering

SITUATION

A “thumping” noise is heard from the front axle area during slow speed steering. Refer to the attached video V32 01 19.

The noise most frequently occurs at outside temperatures above 75 degrees Fahrenheit and normal engine operating temperature.

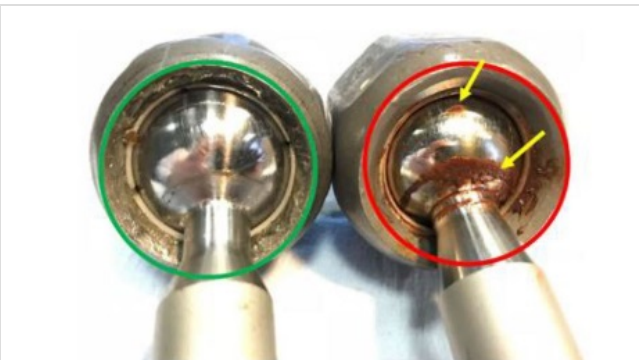
Only vehicles with the manufacturer Zahnradfabrik Friedrichshafen (ZF) standard steering gear are affected. Vehicles with SA2VL will have the manufacturer Thyssen-Krupp (TKPS) and are not affected.



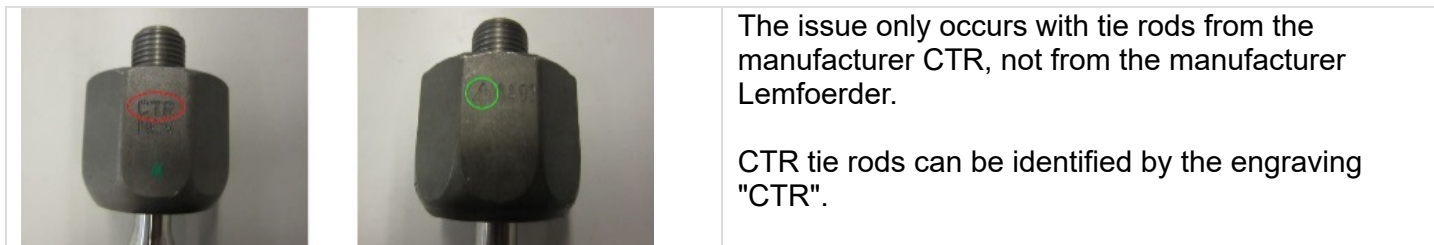
Steering gear identification.
Upper photo: ZF

Lower photo: TKPS

CAUSE



Corrosion as indicated by the yellow arrows on the inside joint of the tie rod.



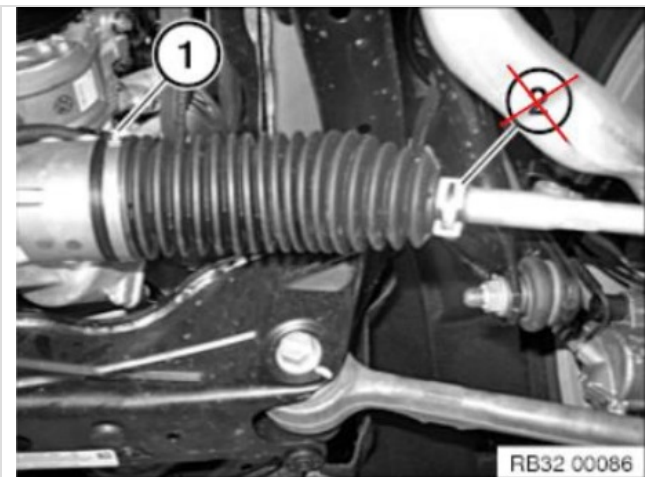
CORRECTION

Replace the tie rod.

PROCEDURE

Verify that the noise complaint can be duplicated as in the video V32 01 19.

1. Does the noise match the attached video?
 - Yes- proceed to step 2
 - No- further diagnostic troubleshooting required to identify the source of the noise
2. Is the steering gear by ZF installed in the vehicle?
 - Yes- proceed to Step 3
 - No- further diagnostic troubleshooting required to identify the source of the noise



3. Remove the clamp (1) and push back the gaiter to identify which tie rod manufacturer is installed.

4. Is the tie rod by manufacturer CTR installed?
 - Yes- proceed to step 5
 - No- further diagnostic troubleshooting required to identify the source of the noise
5. Is the grease discolored and corrosion found on the joint of the tie rod?
 - Yes- proceed to step 6
 - No- further diagnostic troubleshooting required to identify the source of the noise
6. Replace both tie rods per Repair Instructions REP 32 21 231.

PARTS INFORMATION

Obtain and confirm the part numbers for your specific vehicle by entering the chassis number in either ETK or AIR which takes into account specific equipment and/or options.

Part Number:	Description:	Quantity:
	For identifying tie rod manufacturer only	
32 10 6 765 232	Pipe clamp	1
	For replacement of tie rods	
32 10 6 799 960	Left tie rod	1
32 10 6 799 965	Right tie rod	1
32 13 6 756 011	Hose clamp	2
32 10 6 765 232	Pipe clamp	2

WARRANTY INFORMATION

For the applicable ZF Standard Steering Gears as described above

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

Defect Code:	3221043900	Tie rod, side disruptive noises
Labor Operation	Description	Labor Allowance
32 21 251	Replacing left and right tie rods (Main work)	Refer to AIR
Or:		
32 21 737	Replacing left and right tie rods (Plus work)	Refer to AIR

If you are using a Main labor code for another repair, use the Plus code labor operation 32 21 737 instead of 32 21 251.

And, with the above:

Checking Wheel Alignment

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

And, if and as necessary:

Adjusting

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

Supporting Materials

Videos

32 01 19

