

**SUBJECT****Ticking Noise from the Front Axle When Cornering****MODEL**

F06 (M6)

F10 (M5)

F12 (M6 Convertible)

F13 (M6)

F80 (M3)

F82 (M4)

F83 (M4 Convertible)

F85 (X5M)

F86 (X6M)

All from start of production

SITUATION

The customer may complain of a ticking noise from the front axle when cornering, maneuvering, parking or pulling away from a parking space. The noise can be heard as a metallic ticking from the area of the front wheels.

CAUSE

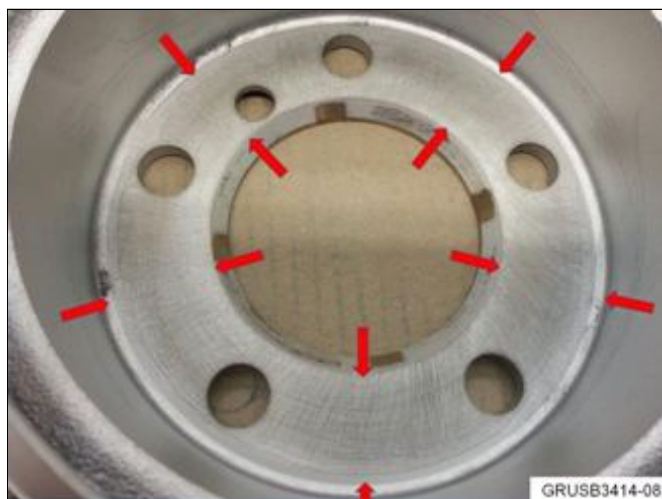
Movement between the inner contact surfaces of the brake disc and drive flange of the wheel bearing hub.

CORRECTION

Clean the contact surfaces and install friction washer.

PROCEDURE

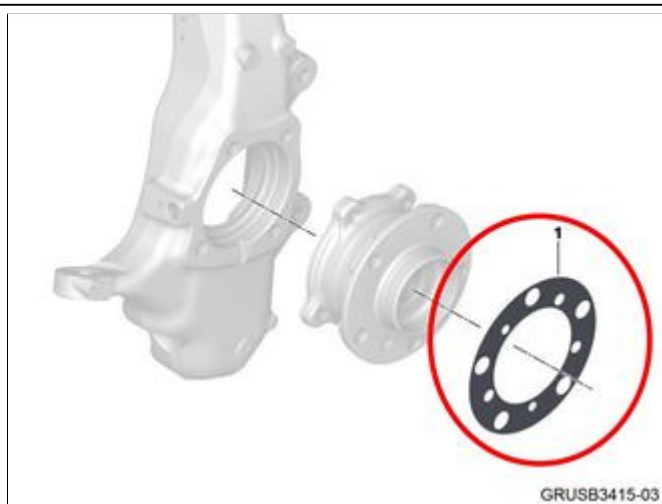
1. Remove both front axle brake discs as per REP 34 11 220.
2. Inspect the five M12 bore holes of the brake disc, the securing bolt bore holes as well as the wheel bearing and its drive flange for damage and replace if necessary.
3. Clean the inner contact surfaces of the front axle brake discs with BMW Brake cleaner P/N 83 19 2 180 805 or P/N 83 19 2 180 806 low VOC.



4. Using 80-grit sandpaper, sand the contact surface of the **brake disc** to the wheel bearing hub. Sand the surface in a radial motion (inside to outside around the surface).
5. Clean the wheel bearing hub surface with BMW Brake cleaner P/N 83 19 2 180 805 or P/N 83 19 2 180 806 low VOC.

Important!!

Do not sand the hub surface.
Do not apply any type of lubricant to the component's surfaces (wheel bearing or brake disc).



6. Install friction washer, P/N 31 10 8 053 073, between the drive flange of the wheel bearing and the inner side of the brake disc. Ensure proper alignment of the bolt hole pattern.

7. Reinstall the front axle brake discs per REP 34 11 220.

PARTS INFORMATION

Part Number	Description	Quantity
31 10 8 053 073	Disc for higher coefficient of friction	2

WARRANTY INFORMATION

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

Defect Code:	34 11 0057 00	

Labor Operation:	Labor Allowance:	Description:
34 11 220	Refer to KSD	Removing and installing both front brake discs
And:		
34 99 000	2 FRU	Work time for cleaning and sanding hub surface of brake discs and cleaning wheel hub surfaces

If you are using a Main labor code for another repair, use the Plus code labor operation 34 11 609 instead. With the wheels removed, use 34 11 610, with the front brake calipers removed, use 34 11 612, or with the front brake pads removed, use 34 11 613.

Refer to KSD2 for the corresponding flat rate unit (FRU) allowance.

Work time labor operation code 34 99 000 is not considered a Main labor operation. Also, since the “work time” FRU allowance to be claimed is specified, a separate punch time is not required.

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