




SI B34 05 15
Brakes

February 2018
Technical Service

TICKING NOISE FROM THE FRONT AXLE WHEN CORNERING

New information provided by this revision is preceded by this symbol .

This Service Information bulletin replaces SI B34 05 15 dated April 2017

What's New:

- Correction updated
- Procedure: Video clip to verify noise and further troubleshooting

MODEL

F06 (M6 Gran Coupe)	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 metallic ticking noise from the front axle when cornering, maneuvering, parking or pulling away from a parking space.

CAUSE

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



CORRECTION

After verifying the noise, clean the contact surfaces and install friction washer.

PROCEDURE



For conditions similar to the situation described. Refer to attached video to verify noise (<https://tinyurl.com/V340515>).

- Remove both front wheels and rotate them on their hub one wheel bolt hole (wheel rotates, hub/rotor stays stationary) and torque the wheels.
- Test drive the vehicle again.
 - If the noise still persists: the cause can be from premature wear on the constant velocity joints on the outer (wheel side) ends of the front output shafts. Refer to SI B31 01 17 for further diagnosis/repairs.
 - If the noise is no longer present: perform the attached front wheel cleaning and friction ring installation procedure

PARTS INFORMATION

Part Number	Description	Quantity
31 10 8 053 073	Disc for higher coefficient of friction	4

WARRANTY INFORMATION

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

Defect Code:	3121900100	
Labor Operation:	Labor Allowance:	Description:
00 64 301	Refer to KSD2	Rework the (front) brake discs and wheel contact surfaces (including installing the friction discs) (Main work)
Or:		
00 64 866	Refer to KSD2	Rework the (front) brake discs and wheel contact surfaces (including installing the friction discs) (Plus work – Vehicle is already in the workshop)
Or:		
00 64 867	Refer to KSD2	Rework the (front) brake discs and wheel contact surfaces (including installing the friction discs) (wheels removed) (Associated work)

Overlapping Labor Procedure – Other Repairs

If invoicing the KSD2 flat rate labor operation codes for other repair work results in overlapping labor, for those flat rate labor operations that are affected, you can now:

- Replace the stated KSD2 “FRU allowance” with a “reduced FRU value” to eliminate the overlapping labor.

For help in identifying the overlapping labor, please refer to the AIR FRU Plausibility Check (Overlapping Labor Tool) that is located in the AIR Client.

Eligible other repair work being claimed under a different defect code will require separate punch times.

On the repair order and in the claim comment section, please identify and itemize those labor operations being claimed with a “reduced FRU value.”

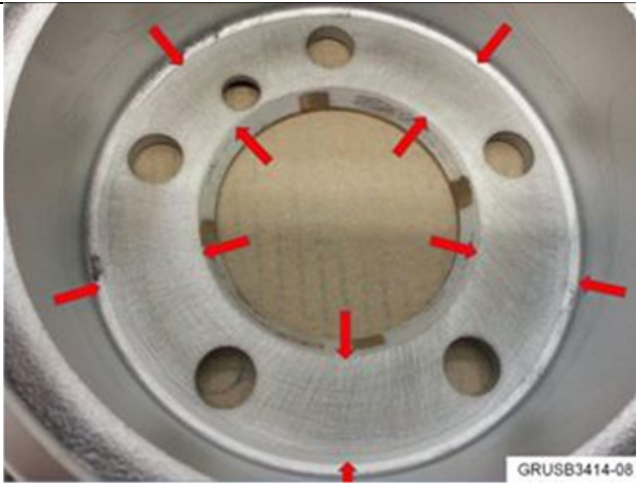

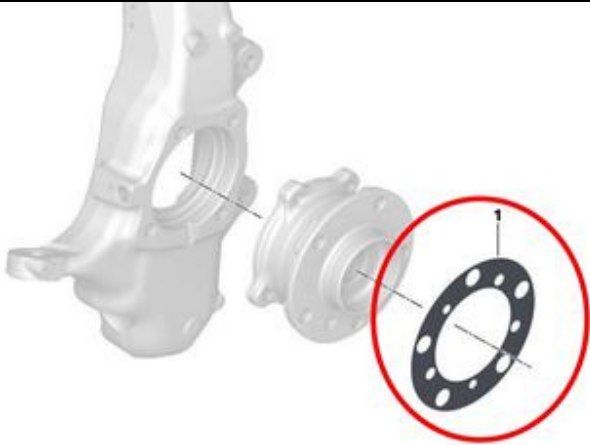
Posted: Tuesday, February 27, 2018

ATTACHMENTS

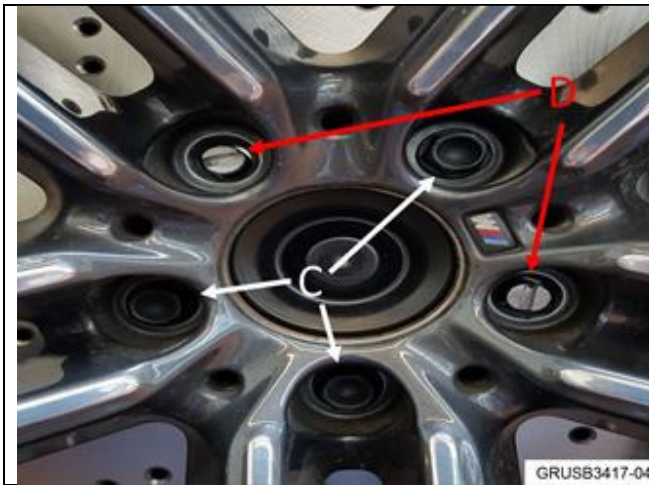
View PDF attachment [B340515 Attachment A](#).

[Copyright ©2018 BMW of North America, Inc.]

Front Wheel Cleaning and Friction Ring Installation Procedure

<ol style="list-style-type: none">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 2180 805 or P/N 83 19 2 180 806 low VOC.	
 <p>GRUSB3414-08</p>	<ol style="list-style-type: none">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). 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. <p> Warning</p> <p>Do not sand the hub surface. Do not apply any type of lubricant to the component's surfaces (wheel bearing or brake disc).</p>
 <p>GRUSB3415-03</p>	<ol style="list-style-type: none">5. 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.6. Reinstall the front axle brake discs per REP 34 11 220.7. Reinstall the front brake pads and calipers per REP 34 11 000.

	<p>8. Clean the rims on the inside on the bearing surface to the brake disk with a sand paper (80-grit) in the radial direction.</p>
	<p>9. Install guide pins into wheel hub to hold friction ring in place.</p>
	<p> Note: Guide pins can be made by removing the head of a wheel bolt and then slotting it (A); or sourced locally from tool vendors (B).</p>



10. Reinstall wheel, after the installation of the first three wheel bolts (C) the guide pins (D) can be removed and the last two wheel bolts inserted.