



TICKING NOISE WHILE CORNERING WITHOUT THE BRAKES APPLIED

MODEL

G12 (7 Series)	F22 (2 Series coupe)	F23 (2 Series convertible)	
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SITUATION

Ticking noise coming from front wheel while cornering without brakes applied; noticeable at low speeds. Vehicle must be moving.

CAUSE


Microscopic slippage of contact surface interface between inner brake disc and wheel bearing flange on vehicles equipped with lightweight brake disc.

CORRECTION

Remove front brake discs and install friction ring between the brake disc and wheel flange.

PROCEDURE

For conditions that are similar to the situation described:

	<ol style="list-style-type: none"> 1. Verify noise is being produced when the brakes are NOT being applied. 2. Check which type of brake disks are installed on the vehicle. <p>Are the lightweight disks (as shown on the right) installed on the vehicle? YES- Go to Step 3. NO – continue diagnosis with ISTA.</p> <ol style="list-style-type: none"> 3. Remove brake discs according to repair instruction 3411220 “Removing both front discs and installing and replacing”. 4. Clean the wheel bearing flange with brake cleaner 5. Install “friction ring” on wheel bearing flange as shown.
	<ol style="list-style-type: none"> 6. G12 Check vehicle history. <p>Is the vehicle more than 24 months old (from production date)? YES- Obtain new bolts for wheel installation. Discard removed bolts. Go to next step. NO – go to next step.</p>



F22, F23: The wheel bolts must be replaced in vehicles produced up to 07/2017.

7. Reinstall all removed parts according to repair instruction 3411220 "Removing both front discs and installing and replacing".
8. Repeat procedure for opposite front wheel.

PARTS INFORMATION

F22, F23		
Part Number	Description	Quantity
34 10 6 887 529	Friction ring	2
F22, F23 up to 07/2017 production		
Part Number	Description	Quantity
36 13 6 781 151	Wheel bolts	10
G12		
Part Number	Description	Quantity
34 10 6 884 839	Friction ring	2

WARRANTY INFORMATION

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

Defect Code:	3121003900	
Labor Operation:	Labor Allowance:	Description:
34 11 220	Refer to KSD2	Removing and installing or replacing both front brake discs
And:		
34 99 000	2 FRU	Work time for cleaning both wheel bearing flanges and installing the "friction ring"

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

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

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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