



TICKING NOISE WHILE CORNERING WITHOUT THE BRAKES APPLIED

This Service Information Bulletin (Revision 4) replaces SI B34 05 17 **dated March 2020**.

What's New (Specific text highlighted):

- Warranty Information: Defect Code

MODEL

Models with wheel bolt pattern 5x120

F06 (6 Series Gran Coupe)	F07 (6 Series Gran Turismo)	F10 (5 Series Sedan)	F12 (6 Series Convertible)
F13 (6 Series Coupe)	F15 (X5 Sports Activity Vehicle)	F16 (X6 Sports Activity Coupe)	F22 (2 Series Coupe)
F23 (2 Series Convertible)	F25 (X3 Sports Activity Vehicle)	F26 (X4 Sports Activity Coupe)	F30 (3 Series Sedan)
F31 (3 Series Sports Wagon)	F32 (4 Series Coupe)	F33 (4 Series Convertible)	F34 (3 Series Gran Turismo)
F36 (4 Series Gran Coupe)	F39 (X2 Sports Activity Coupe)		

Models with wheel bolt pattern 5x112

G01 (X3 Sports Activity Vehicle)	G02 (X4 Sports Activity Coupe)	G05 (X5 Sports Activity Vehicle)	G06 (X6 Sports Activity Coupe)
G07 (X7 Sports Activity Vehicle)	G12 (7 Series Sedan)	G14 (8 Series Convertible)	G15 (8 Series Coupe)
G16 (8 Series Gran Coupe)	G20 (3 Series Sedan)	G29 (Z4 Roadster)	G30 (5 Series Sedan)
G32 (640i xDrive Gran Turismo)	I01 (i3)	I12 (i8 Coupe)	I15 (i8 Roadster)

SITUATION

Ticking noise coming from front wheel while cornering **without** brakes applied, noticeable at low speeds. The vehicle must be moving.

See attached video V34 01 20

Note: For a similar noise heard when parking **with** the brakes applied, refer to [SIB 31 01 12](#).

CAUSE

Microscopic movement of the contact interface between the inner brake disc and the wheel bearing flange on vehicles equipped with lightweight brake discs.

CORRECTION

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

PROCEDURE

For conditions that are similar to the situation as heard in the video:

1. Verify that the noise is produced when cornering without the brakes applied.
2. Check which type of brake discs are installed on the vehicle.

Are the lightweight discs (shown at right in the photo) installed on the vehicle?

Yes – Go to step 3

No – Continue diagnosis



3. Remove the brake discs according to repair instructions 34 11 220 "Removing and installing/replacing both front brake discs".

4. Clean the wheel bearing flange with brake cleaner.



5. Install the "friction ring" on wheel bearing flange as shown.

6. Reinstall all removed parts according to repair instruction 34 11 220 "Removing and installing/replacing both front brake discs".

7. Repeat the procedure for the opposite front wheel.

Note: If the vehicle is older than 24 months from production date, replace the wheel bolts on the front and rear axle.

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
34 10 6 887 529	Friction Ring wheel bolt pattern 5x120	2
Or:		
34 10 6 884 839	Friction Ring wheel bolt pattern 5x112	2

And:

For vehicles which are older than 24 months from production date

Part Number	Description	Quantity
Refer to ETK	Wheel bolt	20

WARRANTY INFORMATION

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

Defect Code:	3121003900	
Labor Operation	Description	Labor Allowance
34 11 220	Removing and installing or replacing both front brake discs	Refer to AIR

If you are using a Main labor code for another repair, use the Plus code labor operation 34 11 609 instead of 34 11 220.

Or, if and as applicable:

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.

And:

Labor Operation	Description	Labor Allowance
34 99 000	Work time for cleaning both wheel bearing flanges and	2 FRU

	installing the friction ring	
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Or:

For vehicles which are older than 24 months from production date

Labor Operation	Description	Labor Allowance
34 99 000	Work time for cleaning both wheel bearing flanges and installing the friction ring and replacing all the wheel bolts	5 FRU

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

Work time labor operation code 00 00 00# 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. However; it still requires an explanation on the repair order and in the claim comments section.

Supporting Materials

Videos

[34 01 20](#)