



SI B34 10 17  
Brakes

April 2017  
Technical Service

## LOW-SPEED BRAKE SQUEAL


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

This Service Information bulletin replaces SI B34 10 17 dated **October 2017**

### What's New:

- Production range added
- Procedure – Identify brake carrier part number
- Part numbers changed

### MODEL

G30 (5 Series Sedan)	 From Start of Production up to 11/30/17		
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### SITUATION

Vehicle brakes produce a squealing noise when applied at low speed.

### CAUSE

Guide pin on the rear brake caliper bracket.

### CORRECTION

Replace rear brake caliper carriers with new part number, as well as discs and pads.

### PROCEDURE

For conditions that are similar to the situation described:

1. Identify, by external observation, where the noise is coming from.

#### Is the sound coming from the rear brakes?

**YES-** go to next step.

**NO** – continue diagnosis with ISTA NED.

-  2. Identify the rear brake caliper carrier part numbers:

- a. Compare vehicle caliper carrier part numbers to the “old” part numbers listed below

“OLD” Part Number	Description

<b>Standard brakes</b>	
34 20 6 870 579	Caliper carrier, left
34 20 6 870 580	Caliper carrier, right
<b>Sport brakes (SA2NH) All models</b>	
34 20 6 881 297	Caliper carrier, blue, left
34 20 6 881 298	Caliper carrier, blue, right

b. Does the vehicle brake caliper carrier match the “old” part number listed above?

**Yes-** go to the next step

**No-** continue as described in the attached brake squeal repair guide



3. Replace the affected caliper carriers with the “new” part number found in parts information



Note: Brake replacement **requires new pads and discs** on both sides of the vehicle.



Note: Correct brake pad greasing is important for proper operation and brake squeal elimination.

Failure to properly grease pads (as described in attached brake repair guide) may result in return visit for squealing brakes.



## PARTS INFORMATION

Part Number	Description	Quantity
<b>UPDATE!</b>		
Standard brakes 540i and 540xi		
34 20 6 891 913	Caliper carrier, left	1
34 20 6 891 914	Caliper carrier, right	1
<b>UPDATE!</b>		
Sport brakes (SA2NH) All models		
34 20 6 891 915	Caliper carrier, blue, left	1
34 20 6 891 916	Caliper carrier, blue, right	1

## WARRANTY INFORMATION

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

<b>Defect Code:</b>	<b>3400203900</b>	

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
34 21 320	Refer to KSD2	Remove and install or replace both rear brake discs (Main work)
Or:		
34 21 928	Refer to KSD2	Remove and install or replace both rear brake discs (Plus work – Vehicle is already in the workshop)
Or:		
34 21 930	Refer to KSD2	Remove and install or replace both rear brake discs (Associated work - Rear wheels removed)
Or:		
34 21 932	Refer to KSD2	Remove and install or replace both rear brake discs (Associated work - rear brake pads removed with either a covered maintenance repair or some other repair)
Or:		
No labor (parts only)	N/A	Associated work - Rear brake discs are already removed with a either a covered maintenance repair or some other repair

Posted: Wednesday, April, 11, 2018


## ATTACHMENTS



View PDF attachment [B341216 Brake Squeal Poster](#).

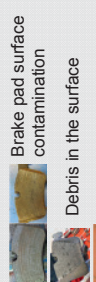
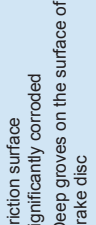
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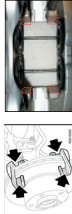
# Brake Squeal Repair Guide

- Analyze the type of noise with a test-drive & NED**  
Determine if the noise is from the front or rear


- Identify one of the following causes:**

 Loose Shim Pad thickness < 6mm with noisy brake or pad completely worn Loose pad masses	 Friction surface significantly corroded Deep grooves on the surface of brake disc Brake disc worn (under minimum thickness)
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- Select repair option:**

 <b>(A)</b> Clean brake pad surface with sandpaper (grit size 80) Pry out contamination with screwdriver if necessary.	 <b>(C)</b> Change brake pad. Cut or renew brake disc according to defect classification in SI B34 10 16
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- Cleaning Brake Calipers** with a brush, brake cleaner and rag according to Full Repair Instructions available on ISTA.



- Chamfer the new brake pad if applied on used disc!**



new pad on used disc:

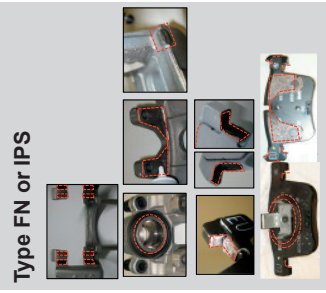
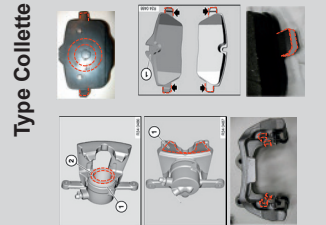
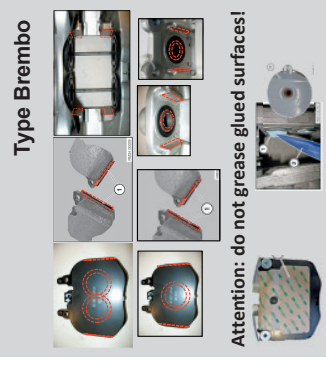


NO chamfering required in case of new brake pad and new disc!

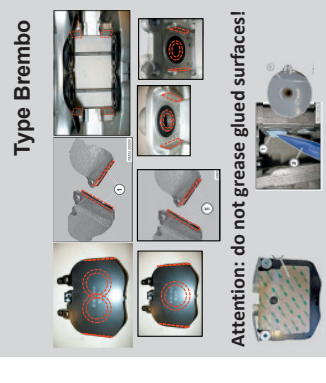


- Greasing Brake Pads and Brake Caliper Contact Points**

**Floating Caliper (1 to 2 piston)**

<b>Type FN or IPS</b> 	<b>Type Collette</b> 	<b>Type Brembo</b>  <p>Attention: do not grease glued surfaces!</p>
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**Fixed Caliper (2 - 6 piston)**



- Hang run-in tag from brake pad box in the car


- Advise customer to avoid if possible hard braking for the next 125miles (as described in hang tag)

For further information on noise treatment consult NED & Repair Instructions

## CATEGORIZATION OF BRAKE DISC CORROSION

Category 1 – No corrosion found: OK to use new brake pads (resurfacing not needed)



Category 2 – Corrosion : cannot be used with new brake pads. OK to resurface\*. After cutting, use new brake pads

\*If measured rotor thickness is above minimum thickness plus 0.5mm



## CATEGORIZATION OF BRAKE DISC GROOVES

Category 1 – No grooves found: OK to use new brake pads (resurfacing not needed)



Category 2 – Grooves: cannot be used with new brake pads. OK to resurface\*. After cutting, use new brake pads

\*If measured rotor thickness is above minimum thickness plus 0.5mm



Category 3 – Severe corrosion : resurfacing not possible. Rotors must be replaced.

\*If deepest groove measured below minimum thickness



Category 3 – Severe grooves : resurfacing\* not possible. Rotors must be replaced.

\*If deepest groove measured below minimum thickness

