

SI B34 06 13 Brakes July 2016 Technical Service

Brake Disc and Brake Pad Service and Reference Information

New information provided by this revision is preceded by this symbol ^{UPDATED}.

This Service Information bulletin supersedes SI 34 06 13 dated March 2015.

MODEL	
All except M vehicles	

SITUATION

Determining when to service brake components

INFORMATION

1. Brake Noise

GRUSB3413-12	Most brake squeal noise is produced by vibration of the brake components. This vibration/oscillation will build up a resonance which is heard as a brake squeal. The type and occurrence of this noise varies, based on driving profile, environmental conditions and build up of debris on brake components.
	Submit a PuMA Info Only case when servicing the vehicle for a customer complaint of brake noise. Include in the case:
	• Identifying the correct axle
	• Photos of the pads, discs and calipers
	• Sound recording/video of noise occurring



Examples of components that do not need to be replaced, including cosmetic guidelines:

2. NAO-specific color transfer since 2009 introduction



3. Light rust on friction surfaces

Brake disc friction surfaces are exposed metal. When not in use and exposed to environmental elements (moisture, salt, dirt), surface rust can



4. Stained Spots/Corrosion

Slightly stained	Slight traces of corrosion on the brake disc friction ring (remains of stained spots): this is the normal condition of a vehicle that is stationary and has not been in use. This corrosion varies with ambient elements. The appearance will not affect braking performance and will diminish with everyday use.
GRUSB3413-08	No repair attempt is needed.
	Significant signs of corrosion on the friction ring: this is the normal condition of a vehicle that is stationary and has not been in use. This corrosion varies with ambient elements. The appearance will not affect braking performance and will diminish with everyday use. No repair attempt is needed.
Significantly stained	



5. Grooves

GRUSB3413-01	Grooves are formed when debris is trapped between the pad and the disc. Debris entry is inherent in the disc brake cooling design. Current wheel styling exposes more of the brake components. Grooves in the brake discs can be seen through these wheel openings and are purely visual; this in no way affects braking performance. No repair attempt is needed.
	 However, the groove depth must be evaluated to determine if replacement is necessary. If the groove's or grooves' depth goes beyond the minimum thickness, disc replacement is necessary. NOTE: Always refer to the Repair Manual for model-specific information. Always replace discs in pairs (per axle).



6. Embedded Material in Brake pad



7. Customer Notification

A hang tag can be found in the box of new brake pads. It is advisable to make extra copies for explanation to the customer. Attach the hang tag to the inside rearview mirror after completion of the repair work. Advise the customer to avoid extreme braking for the first 125 miles.
braking for the first 125 miles. This initial "bedding in" is important to



8. Minimum Thickness



 Install new brake pads when replacing discs.
Attach the hang tag to the inside rearview mirror after completion of repair work.

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	is the
	result of
	lateral
	runout in
	the face
	of the
	brake
	disc.
	A brake
	disc with
	lateral
	runout
	while
	driving
	will
	slightly
	contact
	the brake
	nad once
	pau once
	per
	revolution
	resulting
	in a thin
	spot on
	the brake
	disc.
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	consistent
	contact
	will
	eventually
	cause the
	brake disc
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9. **UPDATE** Brake-induced Vibration

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10. Brake Overheating

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WARRANTY INFORMATION

Item # 1: Brake Noise – Chamfering Brake Pad Portion Only

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

Front Axle

Defect Code:	34 00 01 39 00	Front axle brakes - Squeaking
Labor Operation:	Labor Allowance:	Description:

34 10 059	Refer to KSD2	Cleaning both front wheel brakes (Main work)
and		
34 99 000	1 FRU	Work time to chamfer front pads

If you are using a Main labor code for another repair, use the Plus code labor operation 34 10 559 instead.

Rear Axle

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Defect Code:	34 00 11 39 00	Rear axle brakes - Squeaking
Labor Operation:	Labor Allowance:	Description:
34 10 069	Refer to KSD2	Cleaning and adjusting both rear wheel brakes (Main work)
and		
34 99 000	1 FRU	Work time to chamfer rear pads

If you are using a Main labor code for another repair, use the Plus code labor operation 34 10 569 instead.

Front and Rear Axles

Defect Code:	34 00 20 39 00	Front and rear axle brakes - Squeaking
Labor Operation:	Labor Allowance:	Description:
34 10 079	Refer to KSD2	Cleaning and adjusting all brakes of all wheels (Main work)
And		
34 99 000	2 FRU	Work time to chamfer front and rear brake pads

Labor operation code 34 10 079 is a Main labor operation. If you are using a Main labor code for another repair, use the Plus code labor operation 34 10 579 instead.

Even though work time labor operation code 34 99 000 ends in "000," it 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.

ATTACHMENTS View PDF attachment <u>B340613 Technician Rotor Measuring Sheet</u>.

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