



SI M34 02 15
Brakes

May 2017
Technical Service

Vibration when Braking: Diagnosing and Repairing

This Service Information bulletin replaces SI M34 02 15 dated June 2015

What's New:

- **Situation**
- **Cause**
- **Procedure**
- **Correction**
- **Parts**
- **Warranty**

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

MODEL

All	With standard brake disc/rotors (Non-Drilled)		
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SITUATION

Pulsation of the brake pedal when applying the brakes



CAUSE

Excessive brake disc thickness variation

• Brake disc thickness variation is the result of	
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lateral runout in the face of the brake disc.

- A brake disc with lateral runout while driving will slightly contact the brake pad once per revolution resulting in a thin spot on the brake disc.
- This consistent contact will eventually cause the brake disc to wear unevenly.

 GRUSB3416-02

PROCEDURE

Refer to the attached troubleshooting tree. M34 02 15 Troubleshooting tree

CORRECTION

As determined by the results of following the M34 02 15 troubleshooting tree, the brake discs (front, rear or both as applicable) are to be:

- Resurfaced using a MINI approved* “on-car” brake lathe (Non-Drilled Disc/Rotors); or
- Replaced.

Including: Replacement of the corresponding brake pads and wear sensor(s).



Attention: Brake discs which are replaced will be requested to be returned for inspection.

*For the list of BMW approved “on-car” brake lathes, refer to BMW Equipment Program (www.minicentersolutions.com).



Attention: Going forward, a MINI approved “on-car” brake lathe will be added to your workshop’s list of required tools, once the details are finalized, this bulletin will be updated accordingly.

PARTS INFORMATION

Correction A

Part Number	Description	Quantity
Refer to ETK	Front brake pads (Set)	1

Refer to ETK	Front brake pad wear sensor	1
Refer to ETK	Rear brake pads (Set)	1
Refer to ETK	Rear brake pad wear sensor	1
Refer to ETK	Brake pad paste	1 per axle

WARRANTY INFORMATION

Brake discs that can be resurfaced for excessive run-out are covered under the terms of the MINI New Passenger Car Limited Warranty.



Note: This procedure is not claimable in conjunction with performing and submitting claims under the MINI Maintenance Program or brake discs that are below the thickness requirement for resurfacing.

Front Axle only

Defect Code:	3411005700	Brake disc, front - Vibration
Labor Operation:	Labor Allowance:	Description:
34 11 000	Refer to KSD2	Removing and installing or replacing front brake pads (Main work)
Or:		
34 11 505	Refer to KSD2	Removing and installing or replacing front brake pads (Plus work)
Or:		
34 11 510	Refer to KSD2	Removing and installing or replacing front brake pads (Wheels removed)
And:		
34 11 667	Refer to KSD2	Fine grind both sides of both front brake discs (Brake caliper removed)

If you are using a Main labor code for another repair, use the Plus code labor operation 34 11 505 instead, or if the wheels are already removed, then use 34 11 510.

Or:

Rear Axle only

Defect Code:	3421005700	Brake disc, rear - Vibration
34 21 200	Refer to KSD2	Removing and installing or replacing rear brake pads (Main work)
Or:		
34 21 739	Refer to KSD2	Removing and installing or replacing rear brake pads (Plus work)
Or:		
34 21 740	Refer to KSD2	Removing and installing or replacing rear brake pads (Wheels removed)
And:		
34 21 947	Refer to KSD2	Fine grind both sides of both rear brake discs (calipers removed)

If you are using a Main labor code for another repair, use the Plus code labor operation 34 21 739 instead, or if the wheels are already removed, then use 34 21 740.

Or:

UPDATE! Front and Rear Axles

Defect Code:	3411005700	Brake disc, front – Vibration
Labor Operation:	Labor Allowance:	Description:
34 11 010	Refer to KSD2	Replacing front and rear brake pads (Main work)
Or:		
34 11 514	Refer to KSD2	Replacing front and rear brake pads (Plus work)
Or:		
34 11 515	Refer to KSD2	Replacing front and rear brake pads (Wheels removed)
And:		
34 11 667	Refer to KSD2	Fine grind both sides of both front brake discs (calipers removed)

And:		
34 21 947	Refer to KSD2	Fine grind both sides of both rear brake discs (calipers removed)

If you are using a Main labor code for another repair, use the Plus code labor operation 34 11 514 instead, or if the wheels are already removed, then use 34 11 515.

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



Note: The brake pad replacement flat rate labor operations include measuring the thickness of the corresponding brake discs/rotors and replacing the brake pad wear sensor(s).



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.”

ATTACHMENTS

View PDF attachment [M34 02 15 Technician Rotor Measurement Sheet.](#)

View PDF attachment [M340215 Troubletree.](#)

View PDF attachment [M340416 Attachment Categorization.](#)

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