



SIB 33 01 20 REAR AXLE SHUDDER AT SLOW SPEEDS

MODEL

G14 (8 Series Convertible)	G15 (8 Series Coupe)	G16 (8 Series Gran Coupe)
Vehicles with S-02T4 M Sport differential (rear axle differential with lock)		

SITUATION

There is a shudder or jerking feeling coming from the rear of the vehicle at low speeds and low engine loads while turning

CAUSE

Incorrect actuating pressure in the M-differential clutch plates.

CORRECTION

Replace the rear differential and program the vehicle with ISTA to I level 20-03-526 or higher.

Do not program the vehicle if it is already at 20-03-526 or higher.

PROCEDURE

1. Confirm that the shudder is coming from the rear M-differential and not some other driveline component.
2. Replace the rear differential following Repair Instruction **33 10 014** **Replacing the rear axle M sports differential**
3. Determine the vehicle's current I-level by either using AIR or the Key reader/ISPA NEXT application, program the vehicle using ISTA 4.22.2x or higher (released March 2020) **only** if the vehicle is not at the minimum I level as described above.

Model	Target Integration level
G14/15/16	S18A-20-03-526 or higher

Note that ISTA will automatically reprogram and code all programmable control modules that do not have the latest software.

Always connect a BMW-approved battery charger/power supply (SI B04 23 10) when performing programming.

For information on programming and coding with ISTA, refer to DealerSpeed / TIS / Technical Documentation / Diagnostics and Programming / Programming Documentation.

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

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Refer to ETK	Final drive with differential	1
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Refer to the ETK and the applicable repair instructions for one-time use fasteners and/or component information regarding additional or replacement screws, gaskets, seals and fluids (drained) that need to be installed/replaced and claimed.

WARRANTY INFORMATION

Covered under the terms of the BMW New Vehicle Limited Warranty for Passenger Cars and Light Trucks or the BMW Certified Pre-Owned Program for the items below that apply:

Defect Code:	3310023900	Creaking, rear axle differential when cornering (lock differential) disruptive noises
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Since the programming and encoding procedure can only be invoiced one time, if during this workshop visit the affected vehicle shows one or more programming and encoding Technical Campaign repairs open, then:

Select one of these open Technical Campaigns to perform and submit for updating the vehicle to the required I-level or higher (includes connecting an approved battery charger/power supply and performing a vehicle test).

Please be sure to also perform any additional work (before and/or after) the selected campaign or other campaign repairs require and/or close the remaining open programming and encoding Technical Campaign repairs as outlined in the corresponding Service Information Bulletin.

For the replacement of the Final drive with differential:

Labor Operation	Description	Labor Allowance
33 99 000	As needed, work time (WT) to confirm the shudder is coming from the vehicle's rear M-differential and not some other driveline component (Vehicle is already in the workshop)	WT
And:		
33 10 514	Replacing the rear axle M sports differential	Refer to AIR
And, as applicable:		
33 10 905	Additional work with active stabilizer (ARS) and integral active steering (rear axle slip angle control)	Refer to AIR
And:		
33 60 506	Commissioning for self-locking differential	Refer to AIR

Or:

Without an Open Programming and Encoding Technical Campaign

Labor Operation	Description	Labor Allowance
00 00 006	Performing vehicle test (with vehicle diagnosis system – checking faults) (Main work)	Refer to AIR
Or:		
00 00 556	Performing vehicle test (with vehicle diagnosis system – checking faults) (Plus work)	Refer to AIR
And:		
61 21 528	Connect an approved battery charger/power supply (indicated in AIR as Charging battery)	Refer to AIR

And, as needed:		
33 99 000	Work time (WT) to confirm the shudder is coming from the vehicle's rear M-differential and not some other driveline component (Vehicle is already in the workshop)	WT
And:		
33 10 514	Replacing the rear axle M sports differential	Refer to AIR
And, as applicable:		
33 10 905	Additional work with active stabilizer (ARS) and integral active steering (rear axle slip angle control)	Refer to AIR
And:		
33 60 506	Commissioning for self-locking differential	Refer to AIR

And, when applicable:

Program the vehicle with ISTA to I level 20-03-526 or higher (When required based on the above repair Procedure information)

Labor Operation	Description	Labor Allowance
61 00 730	Programming/encoding control unit(s)	Refer to AIR

If you are using a Main labor code for another repair, use the Plus code labor operation 00 00 556 instead of 00 00 006.

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

Work time labor operation code 33 99 000 is not considered a Main labor operation'

For the above and for any addition work that is performed, as applicable to your center, please refer to **SI B01 01 20 or B01 07 20** for claiming your diagnosis work time, job/repair work time (WT), WT and the repair-related explanation procedures.

Programming and Encoding - Vehicle Control Units (RO and Claim Comments Required)

The programming procedure automatically reprograms and encodes all vehicle control modules which do not have the latest software I-level. If one or more control module failures occur during this programming procedure:

- Please claim this consequential control module related IRAP recovery procedure (when applicable as required)/repair work under the defect code listed in this bulletin with the applicable AIR labor operations.

Please explain this additional work (The why and what) on the repair order and in the claim comments section

For control module failures that occurred prior to performing this programming procedure:

- When covered under an applicable limited warranty, claim the applicable test plan and the corresponding control module-related repair work using the applicable defect code and labor operations in AIR (including diagnosis).

If other eligible and covered work is performed as a result of performing diagnosis, claim this work with the applicable defect code and the labor operations that are listed in AIR (including diagnosis).

QUESTIONS REGARDING THIS BULLETIN

Technical inquires	Submit feedback at the top of this bulletin
Warranty inquires	Submit an IDS ticket to the Warranty Department
Parts inquiries	Submit an IDS ticket to the Parts Department