



RECALL CAMPAIGN 16V-653: REPLACE THE REAR SUB-FRAME BOLTS

Please perform the procedure outlined in this Service Information on all affected vehicles before customer delivery. In the event the customer has already taken delivery of the vehicle, please perform the procedure the next time the vehicle is in the shop.

This Service Information bulletin supersedes SI B33 05 16 **dated September 2016**.

Please read this bulletin in its entirety. The warranty and repair instructions has been added.

MODEL

F80 (M3 Sedan)	F82 (M4 Coupe)	F83 (M4 Convertible)	F87 (M2 Coupe)
----------------	----------------	----------------------	----------------

SITUATION

The rear sub-frame support bolts may have been loosened and re-tightened during a previous repair or campaign. These bolts are designed for a one time use.

AFFECTED VEHICLES

This Recall Campaign involves certain M2 Coupe, M3 Sedan, M4 Coupe, M4 GTS Coupe and M4 Convertible models produced from April 2014 through July 2016.

Vehicles which require this Recall Campaign to be completed will show it as "Open" when checked either in AIR, the "Service Menu" of DCSnet (Dealer Communication System) or with the Key Reader

CAUSE

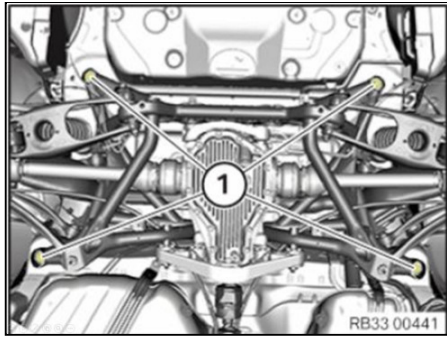
The rear sub-frame support bolts must be replaced whenever they are loosened or removed. An error in the repair instructions did not specify this step in the repair procedure for lowering/removing the rear sub frame during a rear differential replacement.

CORRECTION

1. Check the threads in the body for the rear sub-frame bolts and repair if necessary.
2. Replace the sub frame bolts and perform a wheel alignment.

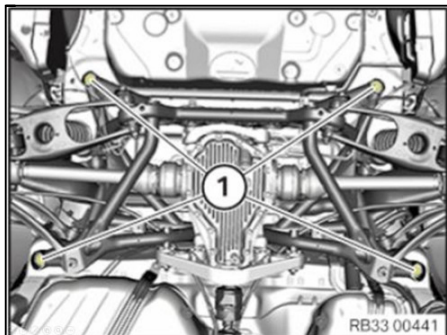
PROCEDURE

	<ol style="list-style-type: none"> 1. Set a torque wrench to 90 Nm and check the initial torque of each original sub-frame bolt (1). Is the initial torque of 90 Nm reached for each bolt (torque wrench/bolt did not move at 90 Nm)?
--	--



YES - Individually replace and tighten the four sub-frame bolts to 108 Nm. Perform a wheel alignment. Repairs are complete.

NO - Continue to next step.



2. Check integrity of the sub-frame threads.

- a. Individually loosen a bolt (1) from the rear sub-frame and unscrew it completely.
- b. By hand, screw in a **new** sub-frame bolt as far as it should go and screw it back out.
- c. Do this for all (4) bolts.

Were all the bolts able to be screwed in and out completely (by hand only)?

YES- the threads are OK. Repairs on the threads are **not** needed. Go to step 6

NO - (the bolt cannot be easily screwed in and out again) - the thread in the body is damaged and will need to be repaired. Go to next step.

3. Remove the rear sub-frame as described in the repair instructions **REP 33 31 000 Removing and installing complete rear axle support**.
4. Perform thread repairs for each damaged thread (as determined in step 2) following the instructions in the attachment (**B33 05 16_31 00 Notes on repairing threads.pdf**).
5. Re-install the rear axle support with new sub-frame bolts.
6. Perform a wheel alignment.

PARTS INFORMATION

Please monitor the DCS messages for parts ordering procedure.

Parts required for this repair ("with and without" damaged body-side thread/threads)

Part Number	Description	Quantity
33 30 6 786 187	Eccentric washer	2
33 30 2 284 642	Torx screw with collar	4

33 30 6 784 802	Eccentric screw	2
07 11 9 905 610	Hexagon screw	2
33 32 6 760 668	Collar nut, self-locking	4
33 32 6 779 785	Eccentric screw	2

Additional required parts when thread repairs are necessary

Part Number	Description	Quantity
26 11 7 527 475	Hexagon screw	6
33 32 6 796 225	Torx screw with collar	4
26 12 7 536 563	Hexagon nut	6
18 30 7 597 650	Collar nut	4
26 11 7 526 806	Centering sleeve	1
07 12 9 904 865	Hexagon nut	2
33 30 6 861 221	Torx screw	2
18 30 7 620 549	Hexagon nut with flange	3
07 11 9 907 189	Torx screw	6
33 30 6 780 501	Heli coil thread inserts M12x1.5x30	Up to 4
07 11 9 904 024	Hexagon nut	4
33 32 6 768 884	Hexagon nut with collar	2
07 11 9 907 560	Hexagon screw	2
33 12 7 607 158	Repair kit, flat nuts	1

	(starting from pro date 29.06.2016)	
33 12 7 854 163	Repair kit, flat nuts (up to pro date 28.06.2016)	1

Note: Other small parts, such as screws and seals, that are also required to be replaced should be selected from the Electronic Parts Catalogue according to the specific vehicle type/ VIN and invoiced accordingly.

WARRANTY INFORMATION

Reimbursement for this Recall will be via normal claim entry utilizing the following information:

Defect Code:	0033030200	
---------------------	-------------------	--

Completion “before” vehicle delivery to the customer or the vehicle is already in the workshop (Plus work)

Labor Operation:	Labor Allowance:	Description:
00 64 724	20 FRU	Check the initial torque, replace the screws at the rear axle support and perform wheel alignment
Or:		
00 64 708	61 FRU	Check the initial torque, check all the threads and repair one thread (one total), replace screws and perform wheel alignment
And, if necessary		
00 64 725	2 FRU	For the repair of an additional thread (two total)
And, if necessary		
00 64 725	2 FRU	For the repair of another thread (three total)
And, if necessary		
00 64 725	2 FRU	For the repair of another thread (four total)

Or:

Completion after vehicle delivery to the customer (Main work)

Labor Operation:	Labor Allowance:	Description:
00 64 198	22 FRU	Check the initial torque, replace the screws at the rear axle support and perform wheel alignment
Or:		
00 64 182	63 FRU	Check the initial torque, check all the threads and repair one thread (one total), replace screws and perform wheel alignment
And, if necessary		
00 64 725	2 FRU	For the repair of an additional thread (two total)
And, if necessary		
00 64 725	2 FRU	For the repair of another thread (three total)
And, if necessary		
00 64 725	2 FRU	For the repair of another thread (four total)

Note: Labor operation code "00 64 725" can be claimed up to three (3) time as needed.

ATTACHMENTS

View PDF attachment [B33 05 16 31 00 Notes on repairing threads.](#)

View PDF attachment [B330516 Q&A.](#)

View PDF attachment [Recall Notice B330516.](#)

[Copyright ©2016 BMW of North America, Inc.]

SAFETY RECALL NOTICE

To: All Center Operators, Sales Managers, Service Manager, Parts Manager and Warranty Processor

RE: Recall 16V-XXX: Replace Rear Sub-Frame Bolts B33 05 16

BMW Group is conducting a Voluntary Safety Recall (effective September 8, 2016) involving the rear sub-frame bolts in certain F80 (M3 Sedan), F82 (M4 Coupe), F83 (M4 Convertible) and F87 (M2 Coupe).

Owners will be notified by First Class mail about the Recall and will be instructed to bring their vehicles in for a free repair when parts are available.

Please be reminded that it is a violation of federal law (The Safety Act) for you to sell, lease or deliver any new motor vehicle covered by this notification until the recall repair has been performed. This means that centers may not legally deliver new motor vehicles to consumers until they are fixed or use/sell replacement equipment/parts subject to this recall. Note also that substantial civil penalties apply to violations of the Safety Act.

Also, you should not sell, lease or deliver any Certified Pre-Owned or used vehicles subject to a safety recall until the repair is completed.

Please follow any special instructions that we provide to you for the return or disposition of recall parts.

We appreciate all your assistance with this Recall.

31 00 ... Notes on repairing threads



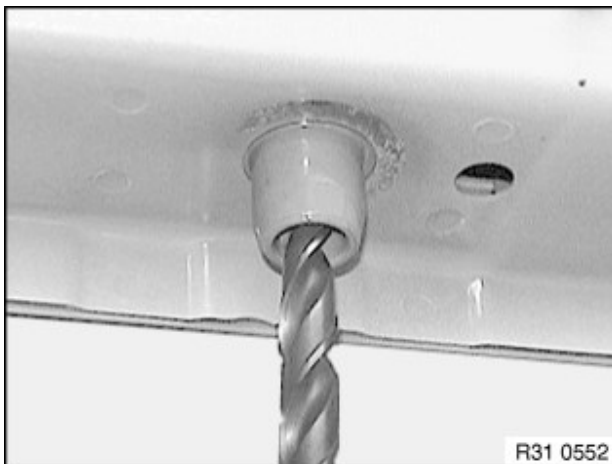
Note:

Damaged threads for the engine support may be repaired with Helicoil thread inserts. Follow the procedure described in the example.



Attention

Install Helicoil thread inserts so that they are flush with the original thread.

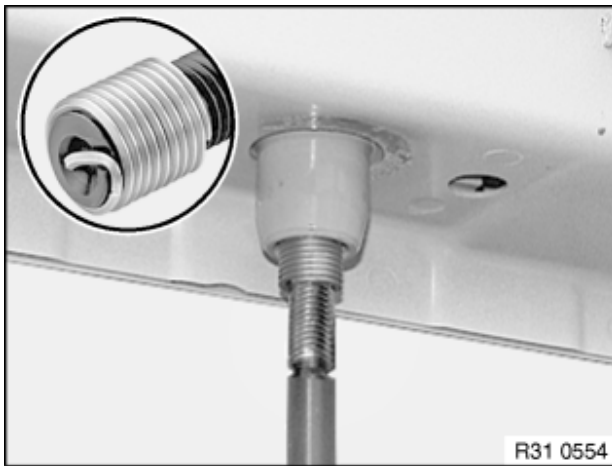


Procedure:

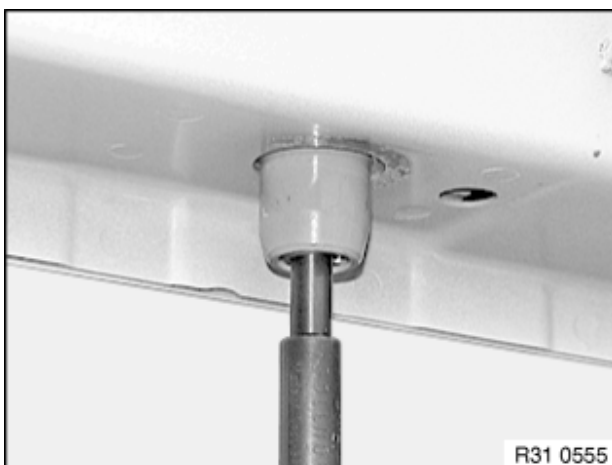
1. Create a clean core hole; if necessary, drill out screw remnants



2. Create locating thread for Helicoil thread insert



3. Use Helicoil thread insert M12x1.5x30 and screw into the locating thread until flush with the original thread



4. Break drive pin and remove

Model Year 2015-2017
BMW M2 Coupe, M3 Sedan, M4 Coupe, M4 GTS, M4 Convertible
Rear Sub-frame Bolts
Safety Recall 16V-653
Last Updated: 9/29/2016

Q1. Which BMW models are potentially affected by this Safety Recall?

Certain Model Year 2015-2017 BMW M2 Coupe, M3 Sedan, M4 Coupe, M4 GTS and M4 Convertible vehicles produced from April 2014 through July 2016 are potentially affected.

Q2. How many BMW vehicles in the US are potentially affected by this Safety Recall?

Approximately 196 BMW vehicles in the US are potentially affected.

Q3. What is the specific issue?

This safety recall involves the rear sub-frame bolts. When replacing the rear differential, these bolts may have been reused instead of using new bolts. As a result, the bolts could loosen over time.

Q4. What can happen as a result of this issue?

If the bolts loosen over time, this could affect vehicle handling and control, and increase the risk of a crash.

Q5. How did BMW become aware of this issue?

BMW became aware of this issue through its quality control procedures.

Q6. Why are other BMW vehicles not included in this Safety Recall?

Other vehicles in which the rear differential was replaced did not reuse these bolts.

Q7. Can I determine if this issue exists in my vehicle?

If you hear noise from the area of the rear axle when making an aggressive tight turn, your vehicle may be experiencing this issue. Carefully move away from traffic and pull over to a safe location as soon as possible. Then, contact BMW Roadside Assistance at 1-800-332-4269 to have the vehicle brought to the nearest authorized BMW center.

Q8. Can I continue to drive my vehicle?

Yes. However, when you receive a letter asking you to have this service performed by an authorized BMW center, please do so as soon as possible. If you are not the only driver of this vehicle, please advise all other drivers of this important information.

Q9. How will my vehicle be repaired?

The rear sub-frame bolts will be replaced.

Model Year 2015-2017
BMW M2 Coupe, M3 Sedan, M4 Coupe, M4 GTS, M4 Convertible
Rear Sub-frame Bolts
Safety Recall 16V-653
Last Updated: 9/29/2016

Q10. Is BMW aware of any accidents or injuries involving these BMW vehicles associated with this Safety Recall?

No.

Q11. How will I be informed of this Safety Recall?

If your vehicle is affected, you will receive a letter in October via First Class mail advising you of this recall and requesting that you schedule an appointment with an authorized BMW center for service and repair. You can find and contact your preferred BMW center at www.bmwusa.com/dealer.

To ensure BMW of North America, LLC has your most recent contact and vehicle information, please register your vehicle at <http://www.bmwusa.com/myBMW>. Registration is free, and will give you access to factory initiated campaigns and other information specific to your BMW vehicle.

Q12. How long will the repair take?

This repair may take several hours; however, additional time may be required depending upon your BMW center's schedule. The repair will be performed free of charge by your authorized BMW center.

Q13. Do I have to wait for my letter in order to have my vehicle serviced?

Yes. BMW is in the process of implementing this program to ensure that the necessary parts, tools and procedures are available at its authorized BMW centers, prior to contacting you to schedule your vehicle to have this safety recall performed.