



SI B16 07 18  
Fuel Supply Systems

July 2018  
Technical Service

## DELIVERY STOP & RECALL 18V-XXX: FUEL LEVEL SENSOR

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

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 replaces SI B16 07 18 **dated July 2018**

### What's New:

- The repair Procedure, Parts and Warranty information have all been updated

### MODEL

F90 (M5)

### SITUATION

BMW Group is conducting a Voluntary Safety Recall (effective July 11, 2018) on Model Year 2018 BMW M5 vehicles that were produced from January 16, 2018 through June 25, 2018. The fuel gauge may display incorrectly.

Approximately 1,647 vehicles are affected by this delivery stop and recall.

Affected vehicles will show the campaign as "Open" when checked either in Warranty Vehicle Inquiry, AIR or ISPA Next and identified with the description: **0016380200 B160718 Recall: Fuel Level Sensor.**

### CAUSE

The distance between a fuel line on the fuel delivery unit (in-tank fuel pump) and the fuel level sensor is too short. The line could come into contact with the fuel level sending unit linkage. This could stop the linkage from travelling to the empty position on the sender.

### CORRECTION

Install a cable tie to the in-tank fuel line to prevent the fuel line from coming in contact with the fuel level sending unit linkage.

### PROCEDURE

Refer to attachment: B160718\_Adjusting\_the\_In-tank\_Fuel\_Line.pdf

### PARTS INFORMATION

Part Number	Description	Quantity
61 13 1 382 243	Cable ties	2
16 11 7 188 567	O-Ring	1
16 13 1 176 747	Plastic nut	5

51 71 7 430 971	Access cover gasket	1
-----------------	---------------------	---

**UPDATE!** **WARRANTY INFORMATION**

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

<b>Defect Code:</b>	<b>0016380200</b>
---------------------	-------------------

**Completion “before” vehicle delivery to the customer or the vehicle is already in the workshop**

Labor Operation:	Labor Allowance:	Description:
00 66 768	8 FRU	Rework the fuel line of the delivery unit (Plus work)

Or:

**Completion after vehicle delivery to the customer (with no other Main work claimed)**

Labor Operation:	Labor Allowance:	Description:
00 66 171	9 FRU	Rework the fuel line of the delivery unit (Main work)

**TREAD Act - Previous Customer-Pay Repairs**

Based on the small number affected vehicles and their current age (affected vehicles produced from January 16, 2018 through June 25, 2018), reimbursement requests for prior customer-pay repairs that specifically address the issue described in this Recall bulletin are not very likely.

Posted: Friday, July 13, 2018

**ATTACHMENTS**

View PDF attachment [B160718 Recall Notice](#).

View PDF attachment [B160718 Adjusting the In-tank Fuel Line](#).

View PDF attachment [2018-F90-FuelLevelSensor-QA-\(13Jul2018\)](#).

[ Copyright ©2018 BMW of North America, Inc. ]

## **SAFETY RECALL NOTICE**

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

RE: Delivery Stop & Recall 18V-XXX: Fuel Level Sensor B16 07 18

BMW Group is conducting a Voluntary Safety Recall (effective July 11, 2018) on Model Year 2018 BMW M5 vehicles that were produced from January 16, 2018 through June 25, 2018.

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.

## **PROCEDURE**

### **⚠ WARNING**

**Working on fuel system.**

**Risk of fire! Danger of explosion!**

- When working on the fuel system, make sure that the workbay is sufficiently ventilated, e.g. using extraction unit.
- Tightly seal off open lines and connections; collect any escaping fuel directly at the point of exit.
- No fire, sparks, open flames or smoking.

### **i TECHNICAL INFORMATION**

Collect and dispose of emerging fluids. Observe country-specific waste disposal regulations.

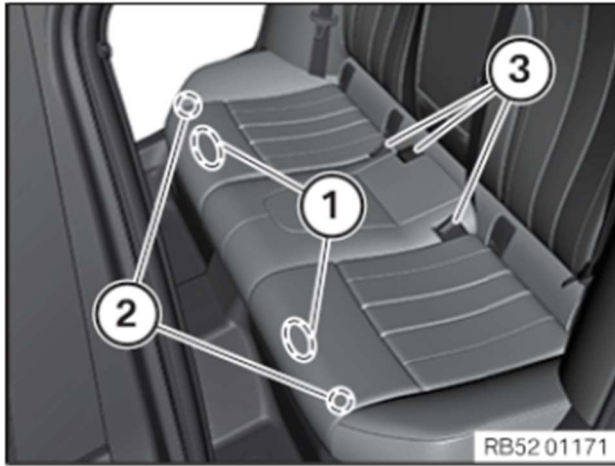
### **Drawing fuel from the fuel tank**



- Open fuel filler cap.
- Insert special tool 0 495 588 (16 1 080) into the fuel filler neck.
- Slide suction hose (1) of the extractor unit through special tool 0 495 588 (16 1 080) and into the fuel filler pipe. If necessary turn the suction hose.
- The inserted length of the suction hose is 125cm.
- Start engine and allow to run. This will ensure that the fuel is pumped by the suction jet pump from the left-hand side of the fuel tank to the right-hand side.

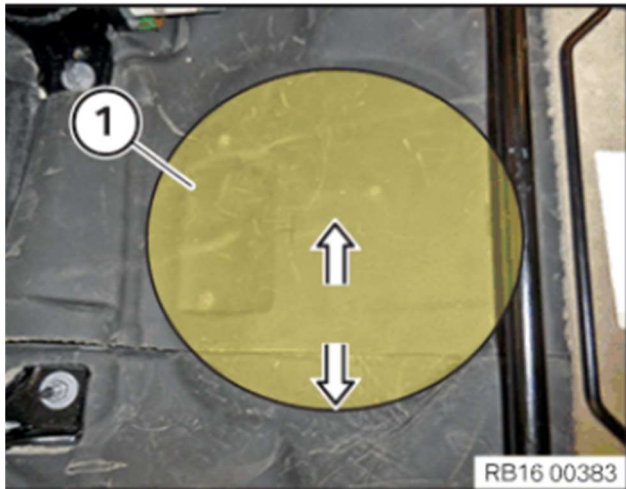
Track the drawing off of the fuel on the fuel gauge in the instrument cluster. Draw off fuel with the extractor unit as far as possible (Reserve light is on).

**Remove rear seat bench**



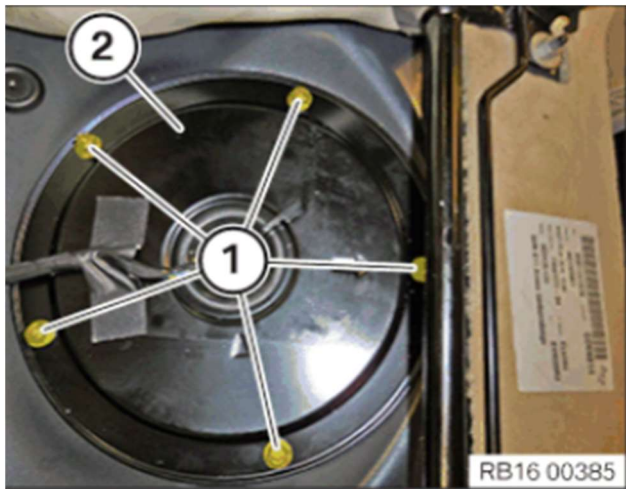
- Unclip the seat bench in area (1) in an upward direction from the latch mechanisms.
- Unlock and disconnect the plug connections in area (2).
- Remove the seat bench and guide out the lower straps (3).

**Open the locking ring**

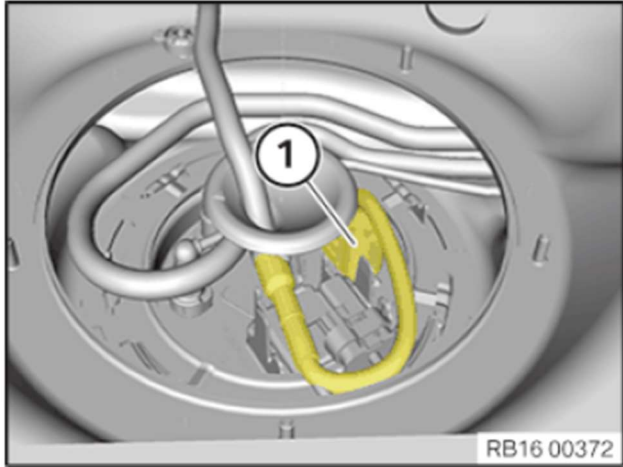


**NOTE:** Observe the previous warning on working with the fuel system!

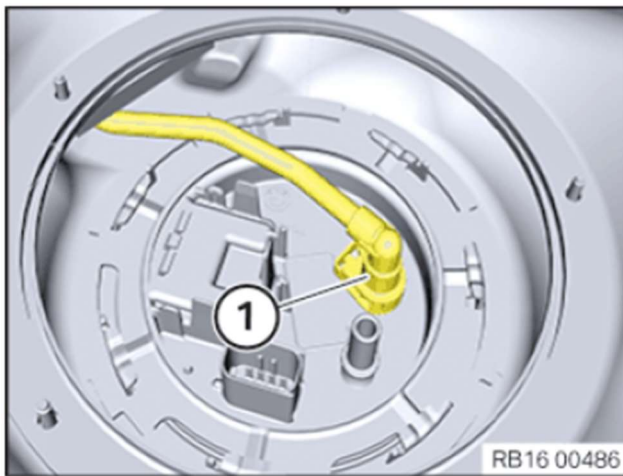
- Expand the floor trims in the area (1) in direction of arrow.



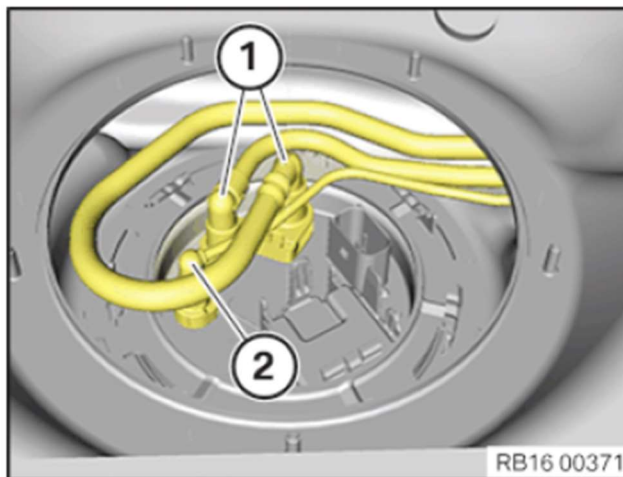
- Loosen plastic nuts (1).
- Open the cover (2).



- Disconnect plug connection (1).



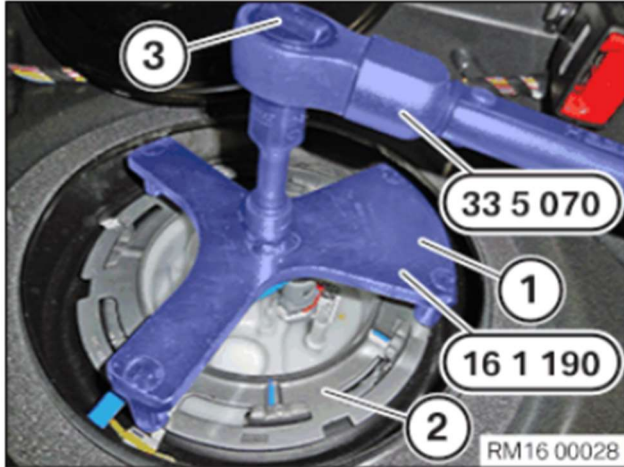
- Unlock and pull off snap fastener (1).



**Equipment specification with optional equipment 1AK (external fuel filter)**

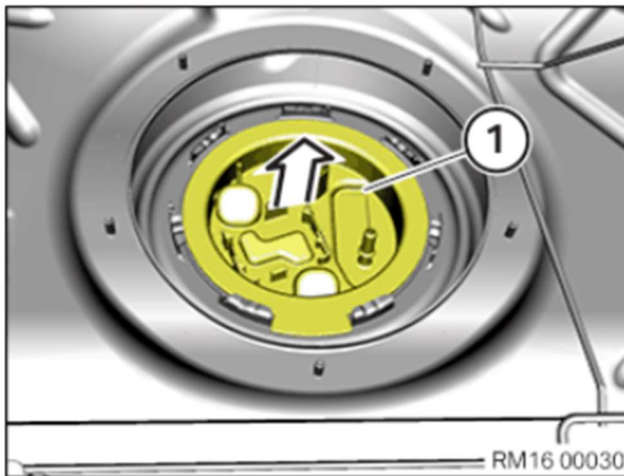
- Unlock and pull off the snap fasteners (1).
- If necessary, unlock and disconnect the snap fastener (2) for the auxiliary heater.



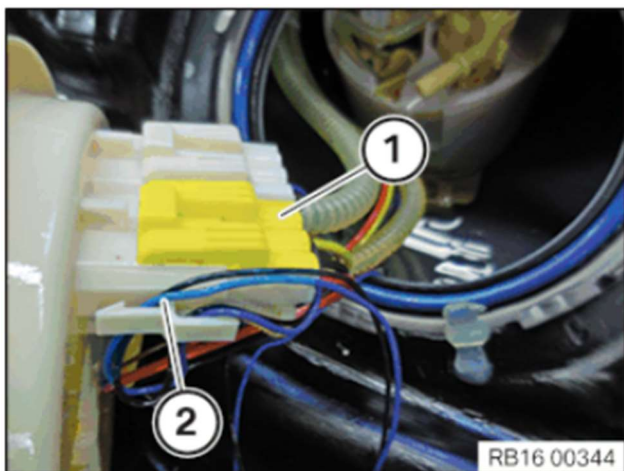


- Fit special tool 0 496 321 (16 1 190) with the wide crank web (1) towards the tip onto the locking ring (2).
- Connect the special tool 0 495 554 (33 5 070) with reversible ratchet head ½ inch (3) and fit it on the special tool 0 496 321 (16 1 190).
- Release locking ring (2) in counterclockwise direction.

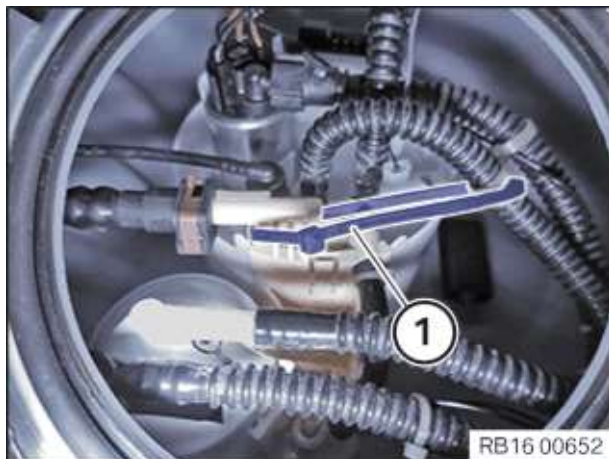
**Access delivery unit**



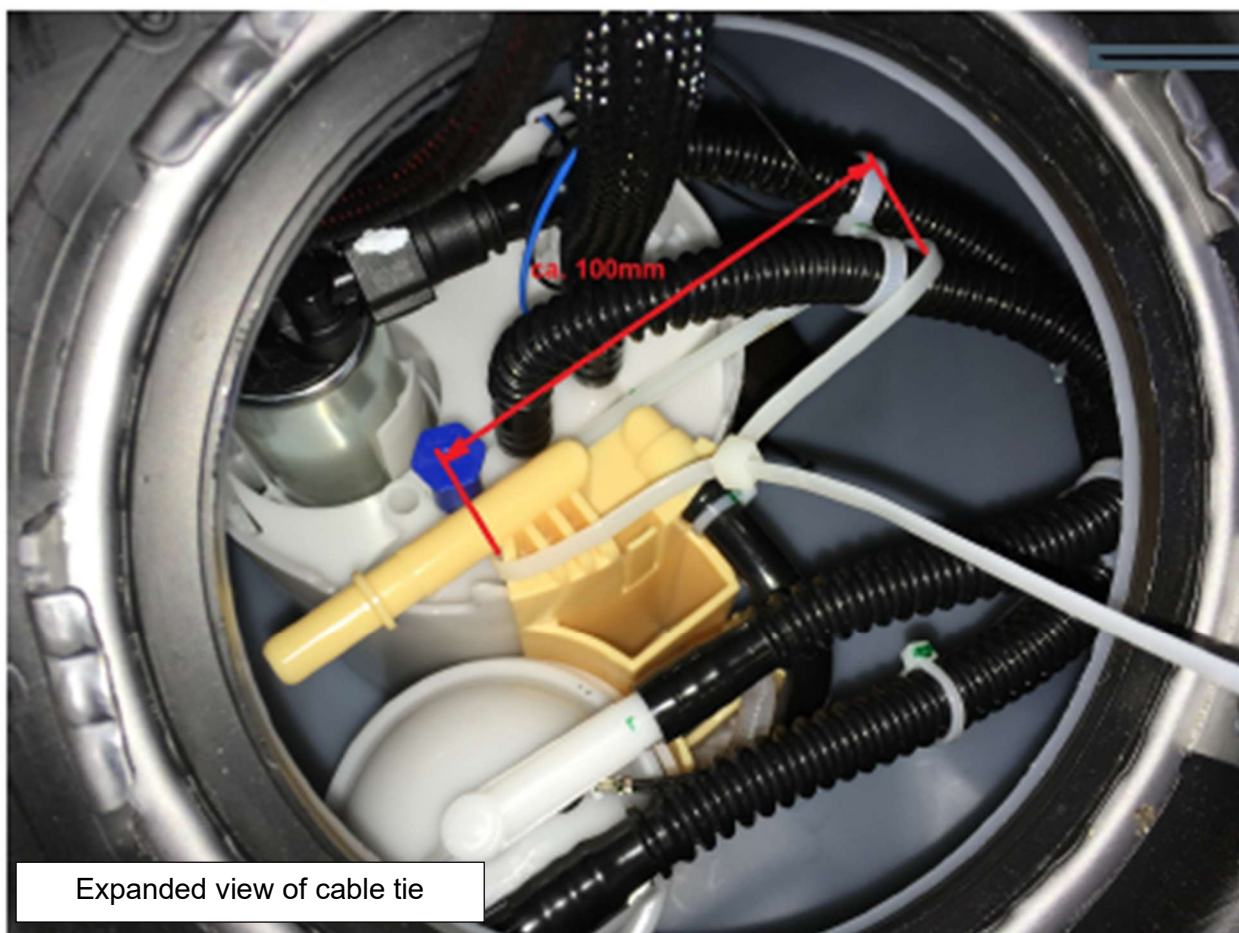
- Lift flange lid (1) in direction of arrow.



- Disconnect plug connection (1).
- Detach cable from bracket (2).

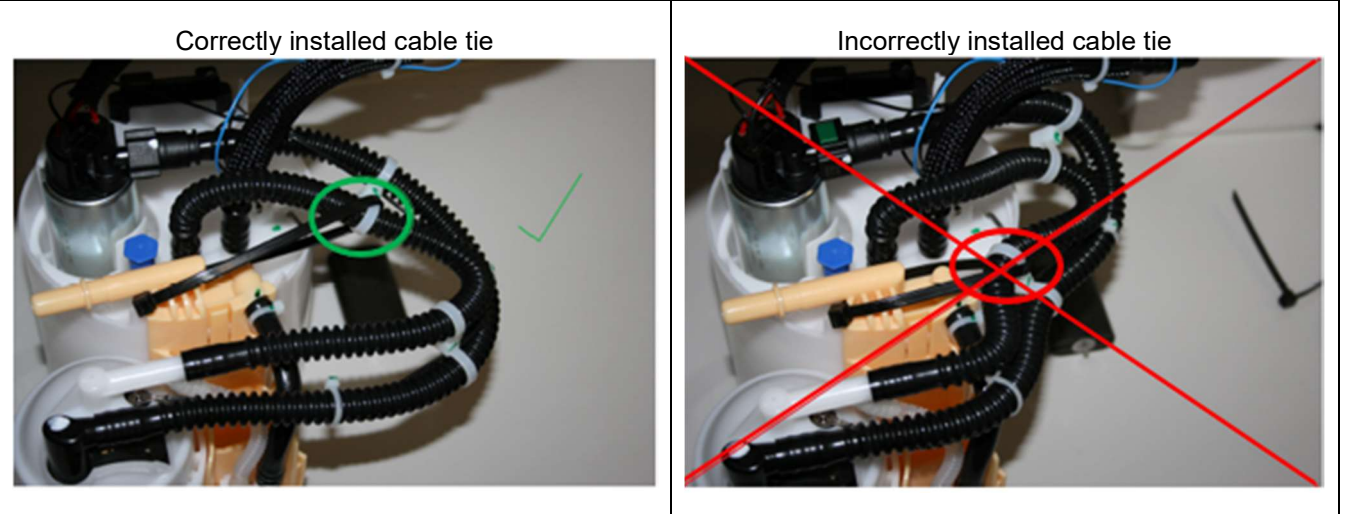


- Install cable tie (1) (PN 61 13 1 382 243) as shown in picture between corrugated hose and pump bracket.
- The cable tie has to be tightened to a distance of 100mm.
- Cut the cable tie end to size
- Check if fuel sending level unit linkage swings free

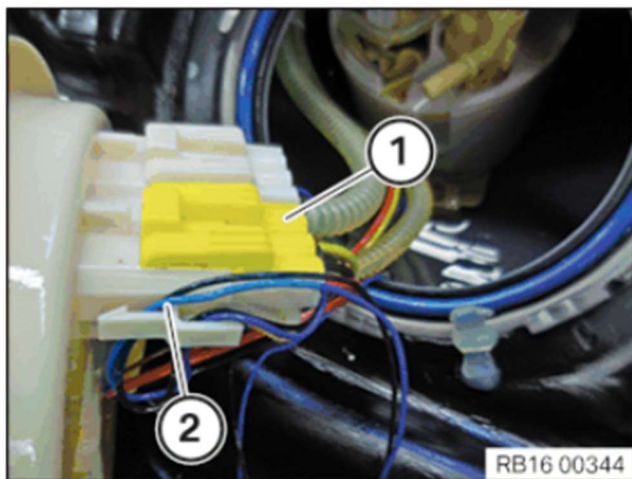




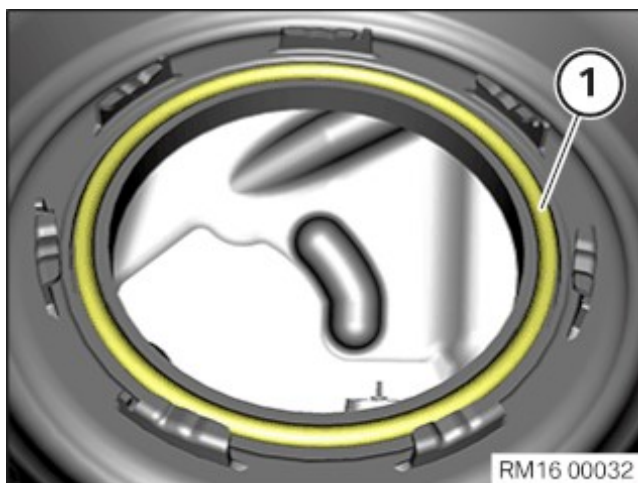
**Proper placement of cable tie (fuel pump removed for clarity)**



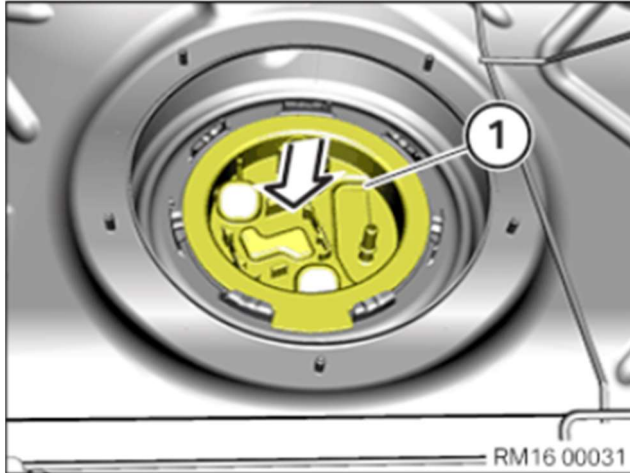
**Install delivery unit cover**



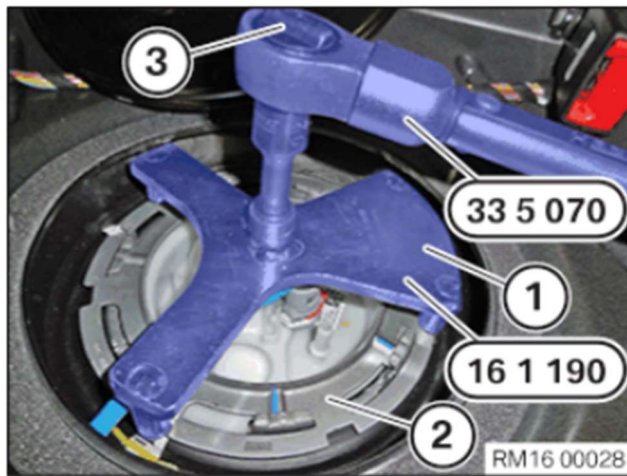
- Attach the cable to the bracket (2).
- Connect the plug connection (1).



- Renew the sealing ring (1) (PN 16 11 7 188 567).

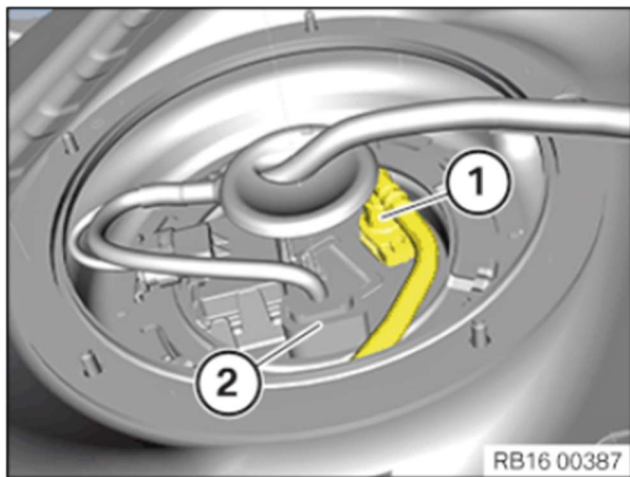


- Mount flange lid (1) in direction of arrow.

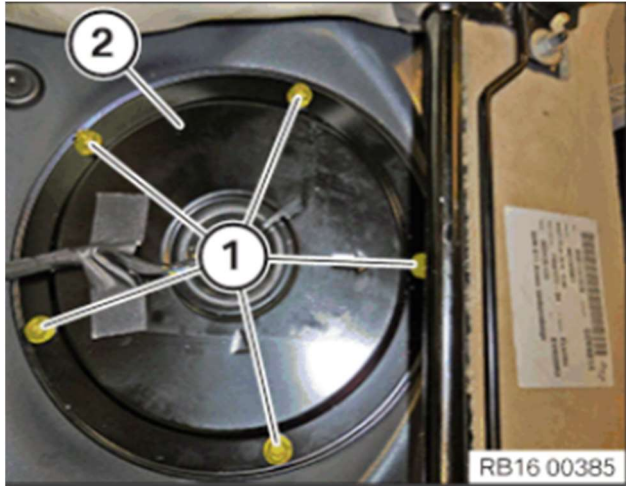


- Fit special tool 0 496 321 (16 1 190) with the wide crank web (1) towards the tip onto the locking ring (2)
- Connect the special tool 0 495 554 (33 5 070) with reversible ratchet head ½ inch (3) and fit it on the special tool 0 496 321 (16 1 190).
- Tighten locking ring (2) in clockwise direction.
- Make sure that the locking ring to the fuel tank is engaged correctly.

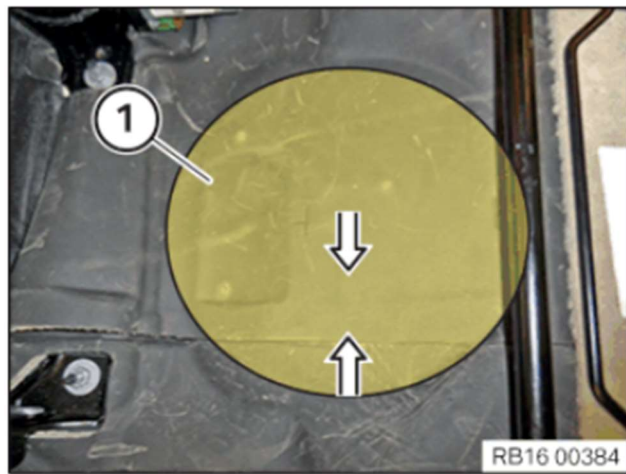
**NOTE:** Tool 16 1 190 supersedes to 2 452 189



- Position snap fastener (1) on lock.
- Connect the plug connection.

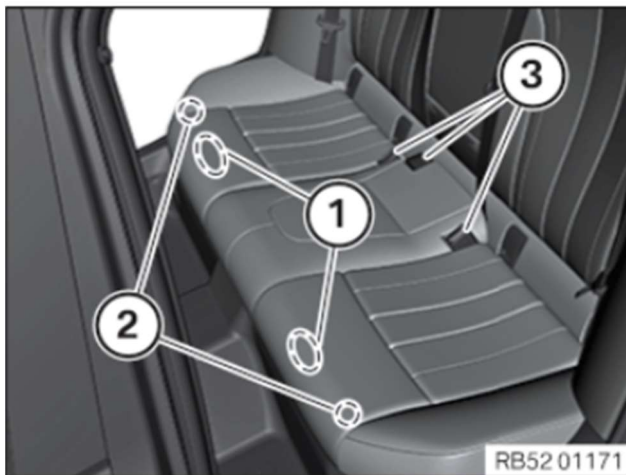


- Mount cover (2). The arrow must point in direction of travel.
- Renew plastic nuts (PN 16 13 1 176 747).
- Insert plastic nuts (1) and tighten to **3Nm**.



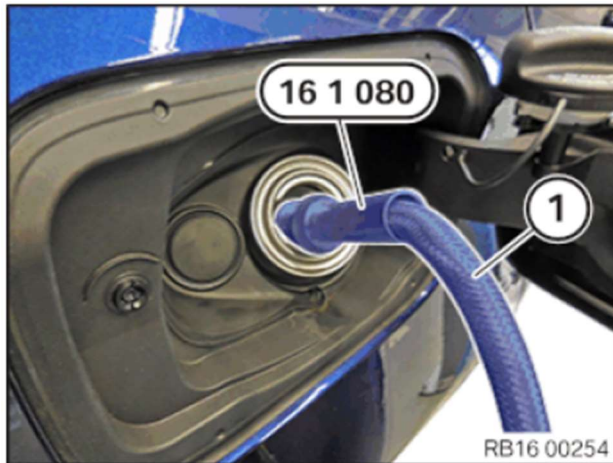
- Close the floor trims in the area (1) in direction of arrow.

### Install rear seat bench



- Insert the seat bench and while doing so feed in the lower straps (3).
- Connect the connector in area (2).
- Clip in the seat bench area (1) in a downwards direction into the latch mechanism.

### Refill Fuel Tank



- After completing the work and before starting the engine for the first time: Fill the fuel tank via the fuel filler pipe with a **minimum of 5L of fuel**.
- Insert special tool 0 495 588 (16 1 080) into fuel filler neck.
- Push suction hose (1) of the extractor unit into the fuel filler pipe by approx. 40cm. If necessary, slightly turn the suction hose.
- Fill fuel from suction extractor unit.



**Fuel Level Sensor  
Safety Recall 18V-xxx  
Model Year 2018  
BMW M5  
*Last Updated 07/13/2018***

- Q1. Which BMW Group models in the US are potentially affected by this Safety Recall?**  
Approximately 1,647 Model Year 2018 BMW M5 models in the US, produced between January and June 2018, are potentially affected.
- Q2. What is the specific issue?**  
The issue involves the fuel level sensor within the fuel tank. The distance between the sensor and an in-tank fuel line is too small, and may cause the sensor to get stuck.
- Q3. What can happen as a result of this issue?**  
If the sensor became stuck, the fuel gauge in the instrument cluster would display a constant (and greater) amount of fuel than is actually available. This could lead to stalling, and increase the risk of a crash.
- Q4. Why are other BMW Group vehicles not included in this Safety Recall?**  
The fuel level sensor in other vehicles does not experience this condition.
- Q5. How did BMW Group become aware of this issue?**  
BMW Group became aware of this issue through its quality control procedures.
- Q6. Can I determine if this issue exists in my vehicle?**  
If you notice that the fuel gauge in the instrument cluster seems to indicate a fuel level that does not change, your vehicle may be experiencing this issue.
- Q7. Can I continue to drive my vehicle (before I receive my letter)?**  
Yes. However, when you receive a letter asking you to have this Safety Recall 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.
- Q8. How will my vehicle be repaired?**  
The in-tank fuel line will be securely fastened so that it does not contact the fuel level sensor.
- Q9. Is BMW Group aware of any accidents, injuries or fires, in the US, involving these BMW Group vehicles associated with this Safety Recall?**  
No.
- Q10. How will I be informed of this Safety Recall?**  
You will receive a [letter in August](#) via First Class mail advising you of this Safety Recall and requesting you to schedule an appointment with an authorized BMW center to have this Safety Recall performed. You can locate your nearest authorized BMW center at [www.bmwusa.com/dealers](http://www.bmwusa.com/dealers).  
  
To ensure the BMW Group has your most recent contact and vehicle information, please register your vehicle at [www.bmwusa.com/myBMW](http://www.bmwusa.com/myBMW). Registration is free, and will give you access to factory initiated campaigns and other information specific to your vehicle.
- Q11. How long will the repair take?**  
This repair will take approximately 1 hour; however, additional time may be required depending upon your BMW center's schedule. The repair will be performed for free by your authorized BMW center.
- Q12. Do I have to wait for my letter to have my vehicle serviced?**  
Yes. We are in the process of implementing this Safety Recall campaign to ensure that the necessary parts, tools, and procedures are at the BMW centers prior to sending out the owner notification letters. For the latest updates to this Safety Recall, please visit [www.bmwusa.com/recall](http://www.bmwusa.com/recall).