

16 00 005 Draining and filling fuel tank



Special tools required:

- [16 1 080](#)

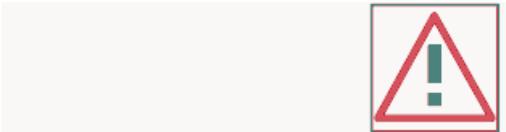


Recycling

Fuel escapes when fuel lines are detached. Have a suitable collecting vessel ready.

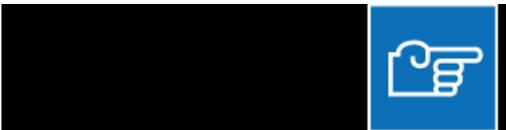
Catch and dispose of escaping fuel.

Observe country-specific waste disposal regulations.



Important!

- Make sure the workbay is adequately ventilated.
- Connect the exhaust extraction unit to the exhaust tailpipe.
- Carefully withdraw suction hose so as not to damage non-return valve.
- The electric fuel pump must not operate without fuel!
- On conclusion of repair work and before starting the engine for the first time, the fuel tank must be filled via the fuel filler pipe with at least 5 litres of fuel.



Drawing off fuel: Note:

The fuel can be drawn off via the fuel filler pipe and a small amount left.

The remaining fuel can be drawn off after the removal of the [delivery unit](#).



Insert special tool [16 1 080](#) into fuel filler neck.

Special tool [16 1 080](#) has two different diameters for petrol/gasoline and diesel-engine cars!

Slide suction hose_(1) of extractor unit, refer to BMW Service Workshop Equipment [16 1 080](#) , through special tool into the fuel filler pipe, turning slightly while doing so, if necessary.

Insertion length: 125 cm

Draw off fuel with suction extractor unit as far as possible.

Observe the fuel gauge in the instrument cluster during evacuation.



Drawing off residual fuel quantity:

Drawing off residual fuel amount is not included in the time value of this operation.

Important!

- Ensure passenger compartment is adequately ventilated.
- Catch dripping fuel in a suitable container.

[Remove delivery unit.](#)

Draw off fuel residual amount through the installation openings.



Fuel filling:

Slide suction hose (1) of extractor unit approx. 40 cm into fuel filler pipe. In so doing, turn hose slightly if necessary.

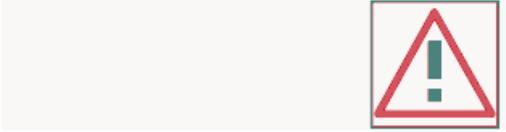
Fill fuel from suction extractor unit.

**Recycling**

Fuel escapes when fuel lines are detached. Have a suitable collecting vessel ready.

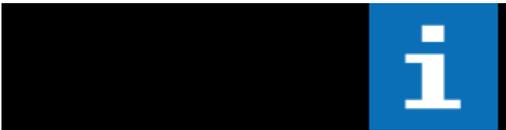
Catch and dispose of escaping fuel.

Observe country-specific waste disposal regulations.

**Attention!**

Ensure adequate ventilation in the workbay!

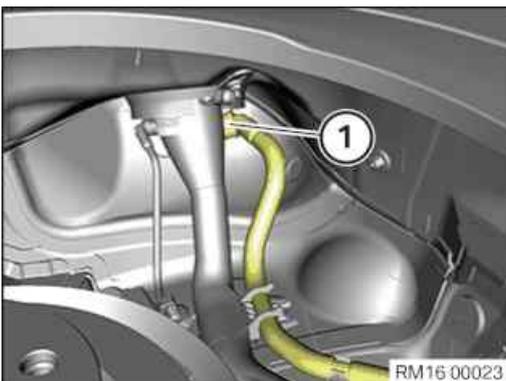
Avoid skin contact (wear gloves)!

**Necessary preliminary work:**

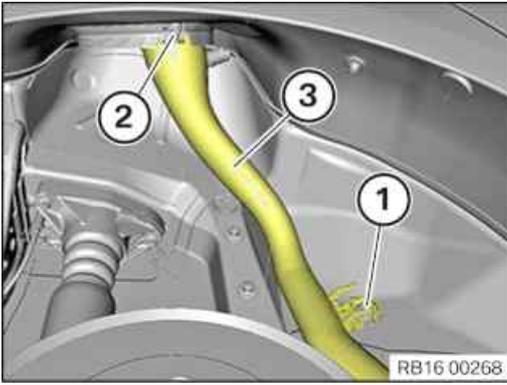
- Extract [fuel from fuel tank](#)
- Open fuel filler cap.
- [Remove rear right wheel arch panel](#) (front section).
- [Remove](#) rear right underbody panelling

**Removal:**

Loosen the hose clamp (1) and pull off the fuel filling hose (2) from the fuel tank.



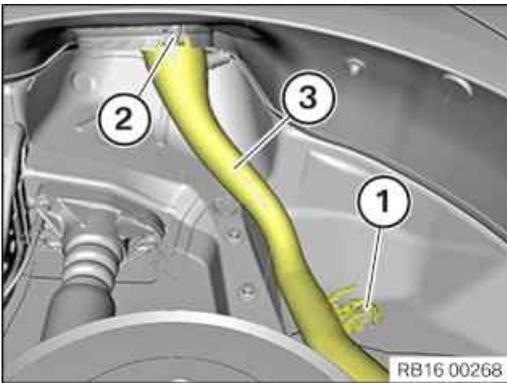
Unlock and disconnect snap fastener (1).



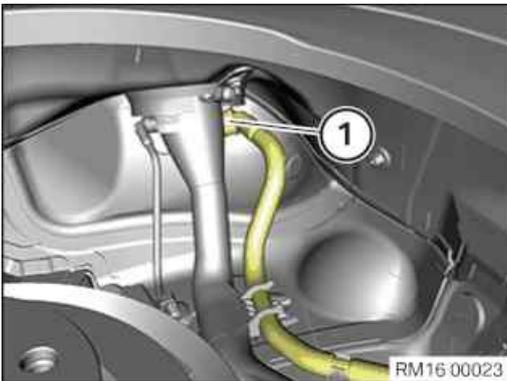
Remove plastic nut (1) from fuel filler pipe.
Slacken nut (2).
Feed out and remove fuel filler pipe (3).



Installation:



Feed in fuel filler pipe (3).
Fit nut (2) and tighten.
Position plastic nut (1) and tighten.



Position snap fastener (1) and lock.
Position plastic nut on fuel filler pipe and tighten.



Install the fuel filling hose (2) on the fuel tank.
Parts: Hose clamp
Tighten hose clamp (1).
Tightening torque [16 11 3AZ](#).

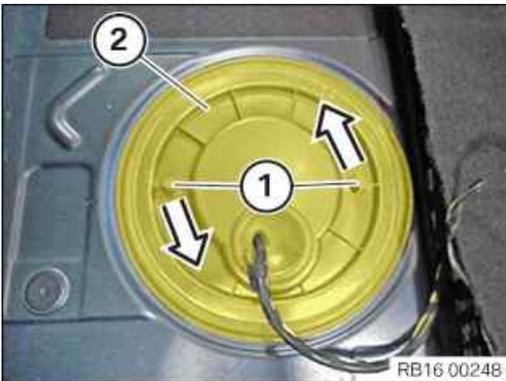


Required follow-up work:

- [Remove rear right wheel arch panel](#) (front section).
- [Remove](#) rear right underbody panelling
- Close fuel filler cap.

**Necessary preliminary work:**

- [Extract](#) fuel from fuel tank.
- Remove [underbody panelling](#) on left and right.
- Remove [exhaust system](#).
- Remove heat shield.
- Remove rear right [wheel arch panel](#).
- Remove [rear seat](#).

**Removal:**

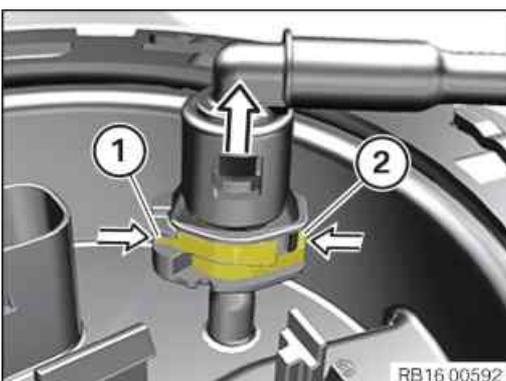
Unscrew floor panel sealing cap (2) at plastic tabs (1) in direction of arrow.

Remove floor panel sealing cap (2).

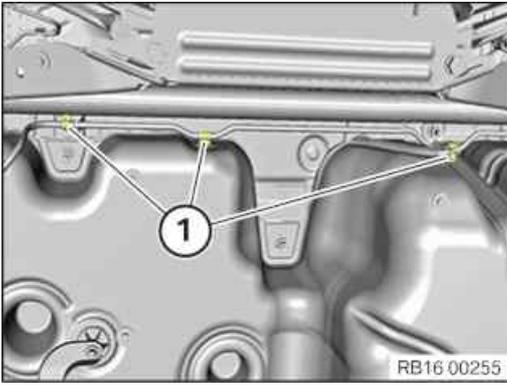
If unscrewing is not possible, destroy the floor panel sealing cap (2) and replace it.



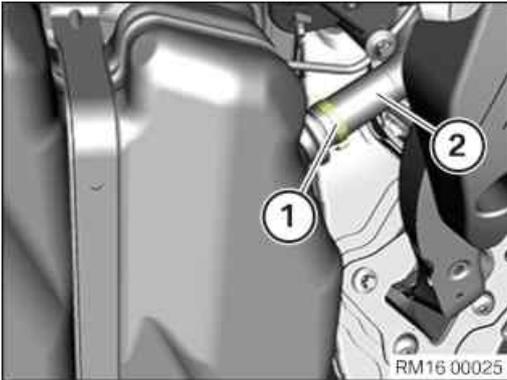
Disconnect plug connection (1).



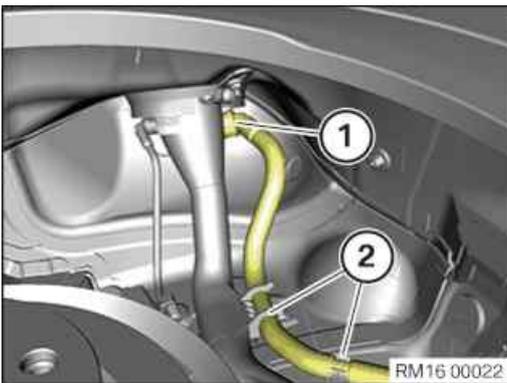
Push the snap fastener toward the delivery unit. Next, press retaining lugs (1) and (2) and pull off the snap fastener in direction of arrow.



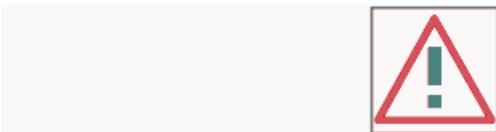
Unhook tank ventilation line from brackets (1).



Release hose clamp (1) and detach fuel filling hose (2) from fuel tank.

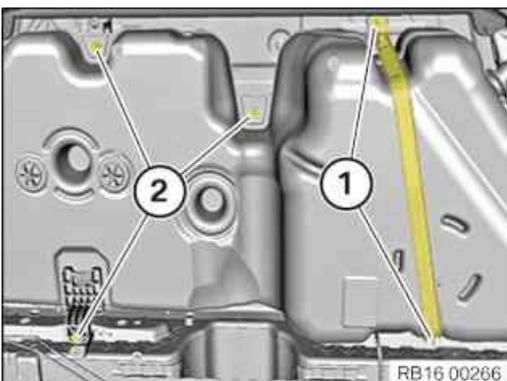


Unlock and disconnect snap fastener (1).
Detach fuel filler neck breather pipe from brackets (2).



Attention!

Support fuel tank over a wide area with a suitable workshop jack and secure against falling down!



Release screw and nut (1) and remove tensioning strap.
Release nuts (2) and lower fuel tank.

Attention!

While the fuel tank is being lowered, the fuel filler neck breather pipe must be guided from the wheel arch through the body aperture!

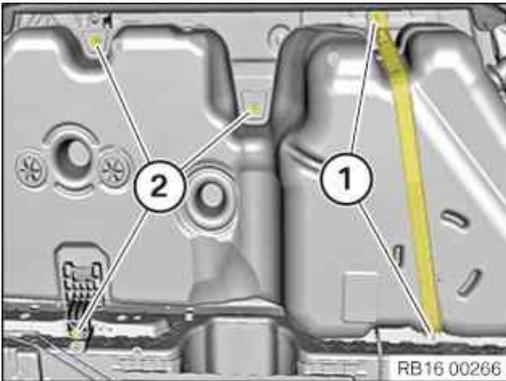


Preparation for installation:

- [Remount delivery unit.](#)



Installation:



Attention!

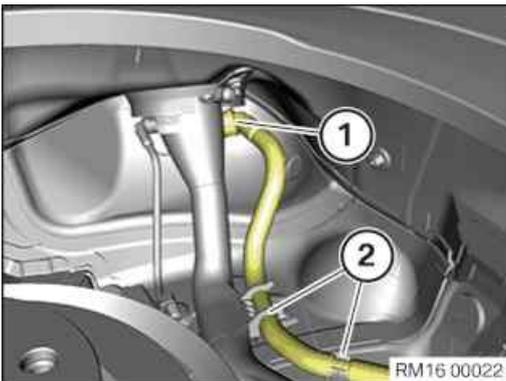
While the fuel tank is being raised, the fuel filler neck breather pipe must be guided through the body aperture into the wheel arch!

Raise fuel tank and position and screw in nuts (2).

Tightening torque [16 11 2AZ](#).

Fit tensioning strap and position and tighten screw and nut (1).

Tightening torque [16 11 4AZ](#).



Position snap fastener (1) and lock.

Attach fuel filler neck breather pipe in the brackets (2).

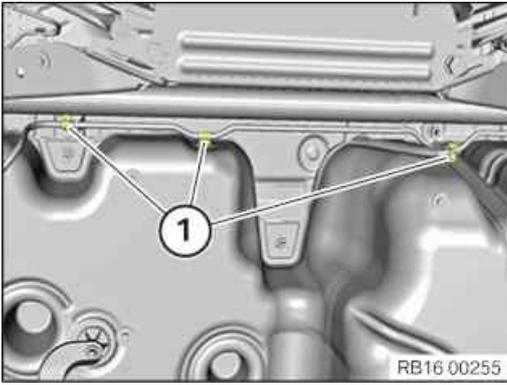


Mount fuel filling hose (2) to fuel tank.

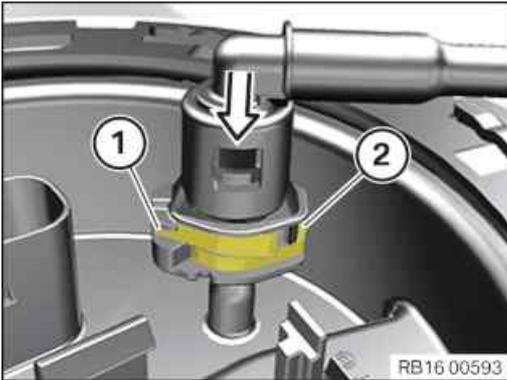
Parts: Hose clamp

Tighten hose clamp (1).

Tightening torque [16 11 3AZ](#).



Hook tank ventilation line into brackets (1).



Locking tabs (1) and (2) must be locked.

Mount the snap fastener and lock.

Attention!

Check the snap fastener locks for damage and renew if necessary!

Snap fastener must be felt and heard to snap into place.

Ensure correct locking of the snap fastener by means of a countermove test.



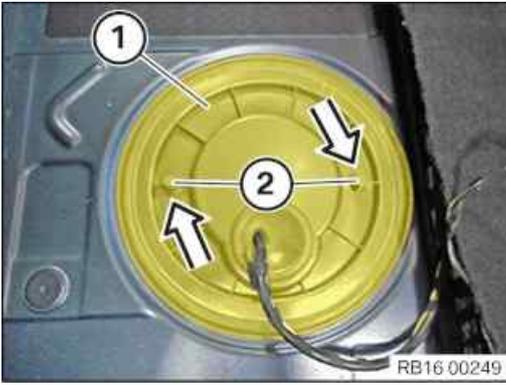
Connect plug connection (1).



Always replace floor panel sealing cap.

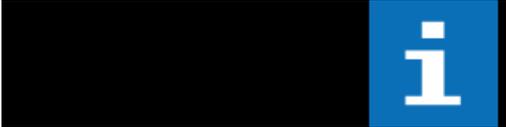
Leaks may occur if reused.

Coat gasket in area (1) using Carbaflo KSP 105 lubricant (see Electronic Parts Catalogue).



Mount floor panel sealing cap (1).

Latch floor panel sealing cap (1) at plastic tabs (2) in direction of arrow up to end stop.



Required follow-up work:

- [Remove underbody panelling](#) on left and right.
- [Install exhaust system.](#)
- Fit heat shield.
- Mounting the rear right [wheel arch panel.](#)
- [Install rear seat.](#)

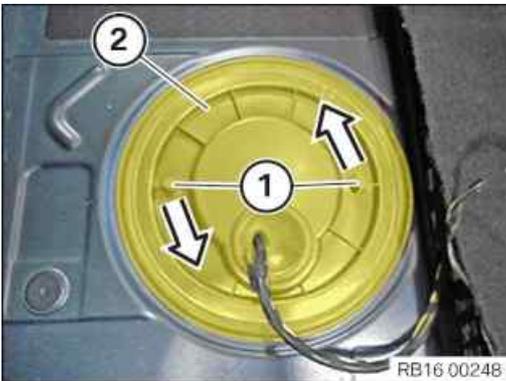
Attention!

After installation of fuel tank/prior to first engine start-up:

- Check earth connection at fuel filler neck to body for continuity. If necessary, clean contact surface between body and fuel filler pipe screw connection.
- Fill fuel tank with at least 5 litres of fuel.

**Necessary preliminary work:**

- [Extract](#) fuel from fuel tank.
- Remove [underbody panelling](#) on left and right.
- Remove [exhaust system](#).
- Remove heat shield.
- Remove rear right [wheel arch panel](#).
- Remove [rear seat](#).

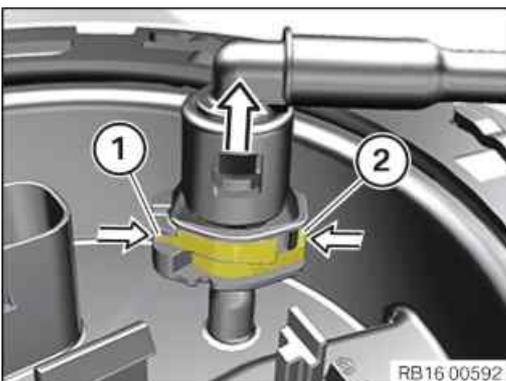
**Removal:**

Unscrew floor panel sealing cap (2) at plastic tabs (1) in direction of arrow.
Remove floor panel sealing cap (2).

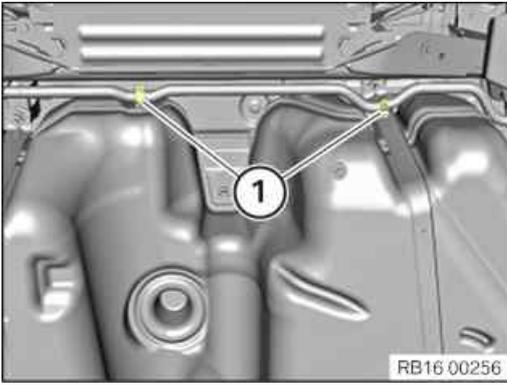
If unscrewing is not possible, destroy the floor panel sealing cap (2) and replace it.



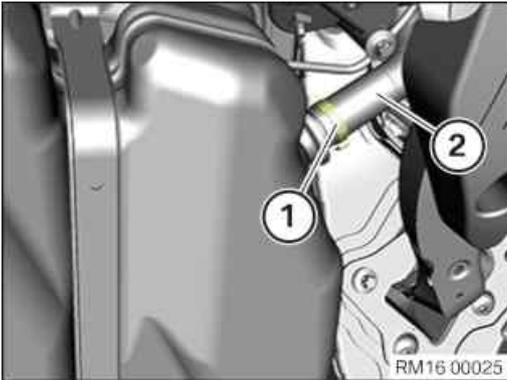
Disconnect plug connection (1).



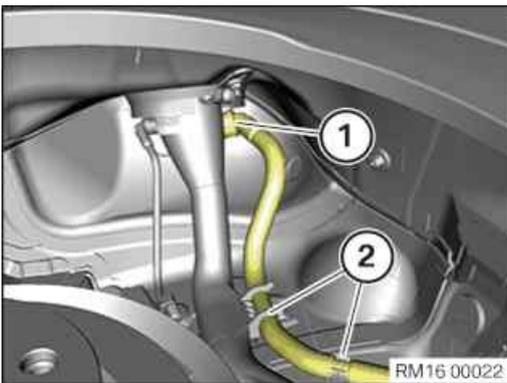
Push the snap fastener toward the delivery unit. Next, press retaining lugs (1) and (2) and pull off the snap fastener in direction of arrow.



Unhook tank ventilation line from brackets (1).



Release hose clamp (1) and detach fuel filling hose (2) from fuel tank.

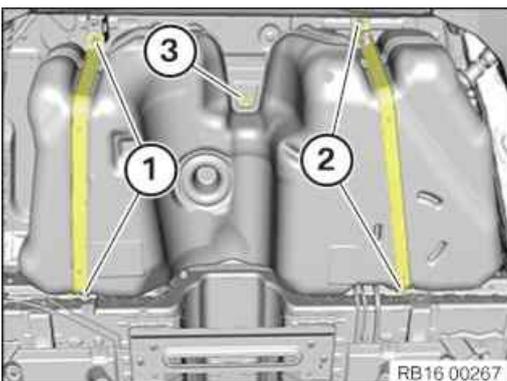


Unlock and disconnect snap fastener (1).
Detach fuel filler neck breather pipe from brackets (2).



Attention!

Support fuel tank over a wide area with a suitable workshop jack and secure against falling down!



Loosen screw and nut (1 and 2) and remove tensioning strap.
Release nuts (3) and lower fuel tank.

Attention!

While the fuel tank is being lowered, the fuel filler neck breather pipe must be guided from the wheel arch through the body aperture!

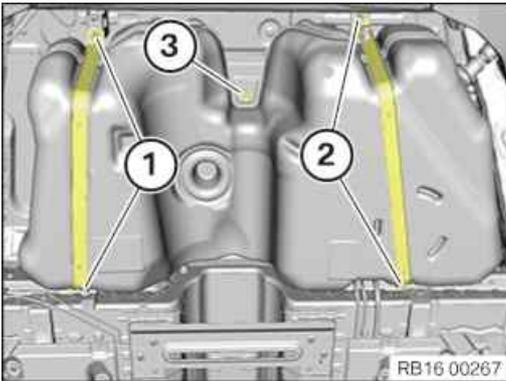


Preparation for installation:

- [Remount delivery unit.](#)



Installation:



Attention!

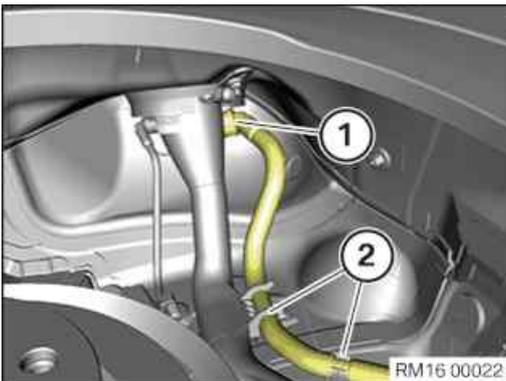
While the fuel tank is being raised, the fuel filler neck breather pipe must be guided through the body aperture into the wheel arch!

Raise fuel tank and position and screw in nuts (3).

Tightening torque [16 11 2AZ](#).

Install tensioning strap and position and tighten screw and nut (1 and 2).

Tightening torque [16 11 4AZ](#).



Position snap fastener (1) and lock.

Attach fuel filler neck breather pipe in the brackets (2).

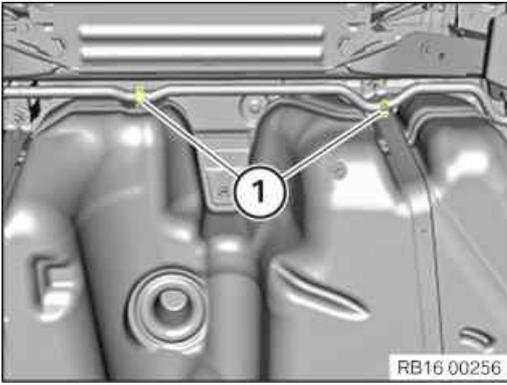


Mount fuel filling hose (2) to fuel tank.

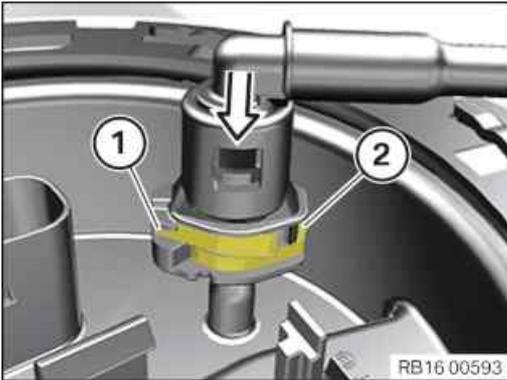
Parts: Hose clamp

Tighten hose clamp (1).

Tightening torque [16 11 3AZ](#).



Hook tank ventilation line into brackets (1).



Locking tabs (1) and (2) must be locked.

Mount the snap fastener and lock.

Attention!

Check the snap fastener locks for damage and renew if necessary!

Snap fastener must be felt and heard to snap into place.

Ensure correct locking of the snap fastener by means of a countermove test.



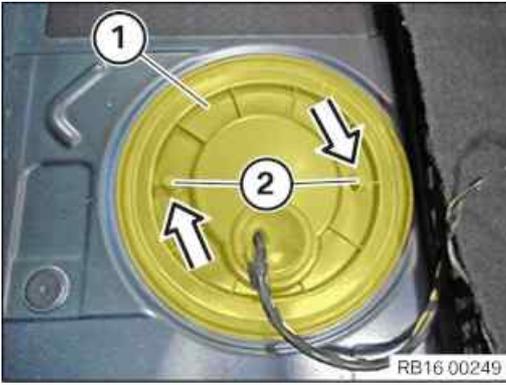
Connect plug connection (1).



Always replace floor panel sealing cap.

Leaks may occur if reused.

Coat gasket in area (1) using Carbaflo KSP 105 lubricant (see Electronic Parts Catalogue).



Mount floor panel sealing cap (1).

Latch floor panel sealing cap (1) at plastic tabs (2) in direction of arrow up to end stop.



Required follow-up work:

- [Remove underbody panelling](#) on left and right.
- [Install exhaust system.](#)
- Fit heat shield.
- Mounting the rear right [wheel arch panel.](#)
- [Install rear seat.](#)

Attention!

After installation of fuel tank/prior to first engine start-up:

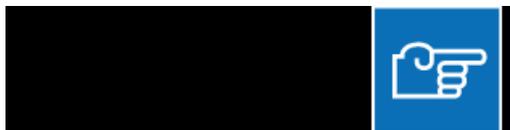
- Check earth connection at fuel filler neck to body for continuity. If necessary, clean contact surface between body and fuel filler pipe screw connection.
- Fill fuel tank with at least 5 litres of fuel.

51 75 ... Removing and installing/replacing tank cover on left or right

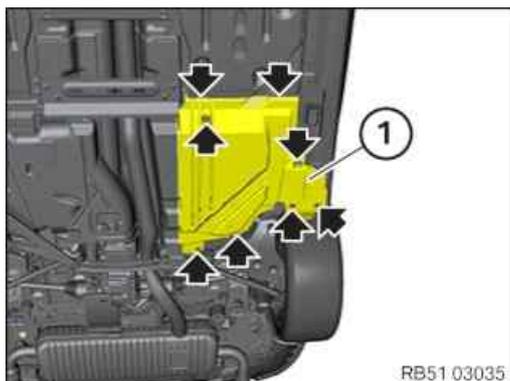


Necessary preliminary work:

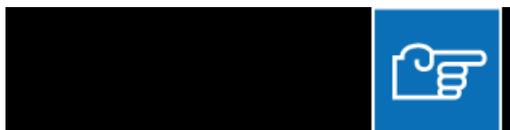
- Remove [torsion strut](#)



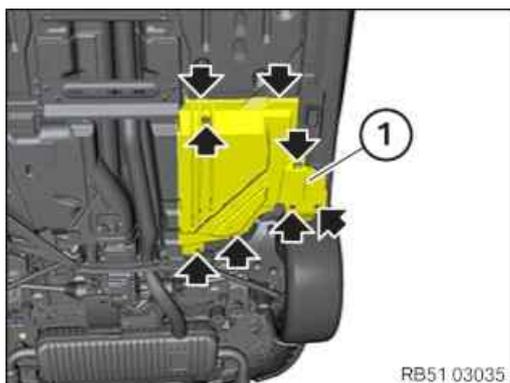
Removal:



Unscrew all bolts.
Remove tank cover (1).



Installation:

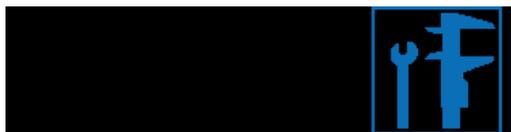


Install tank cover (1).
Tighten down all screws.
Tightening torque [51 75 1AZ](#).



Required follow-up work:

- Install [torsion strut](#)



Special tools required:

- [2 452 189](#)
- [2 445 958](#)
- [33 5 070](#)

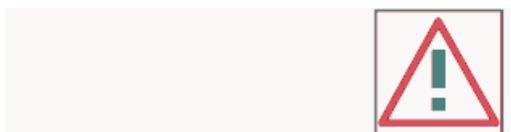


Recycling

Fuel escapes when fuel lines are detached. Have a suitable collecting vessel ready.

Catch and dispose of escaping fuel.

Observe country-specific waste disposal regulations.

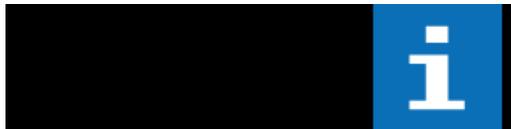


Attention!

Ensure adequate ventilation in the workbay!

Avoid skin contact (wear gloves)!

Ensure cleanliness when performing repairs on the open fuel system.
Dirt contamination in the fuel tank may impair driving or may even result in vehicle breakdown.

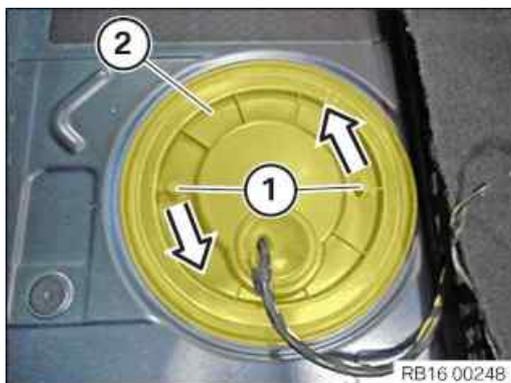


Necessary preliminary work:

- Remove [rear seat](#).
- [Extract fuel from fuel tank](#)



Removal:



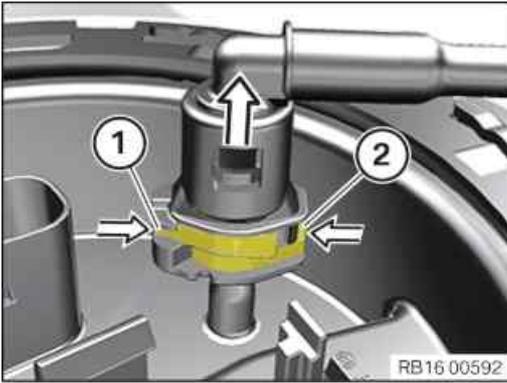
Unscrew floor panel sealing cap (2) at plastic tabs (1) in direction of arrow.

Remove floor panel sealing cap (2).

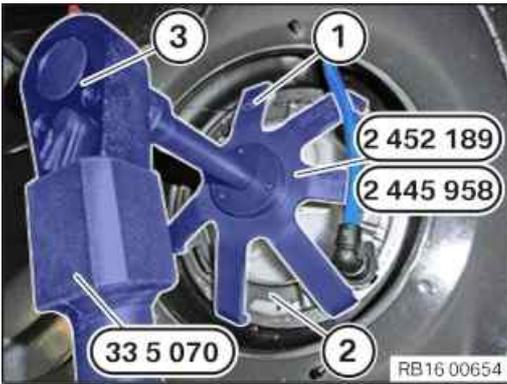
If unscrewing is not possible, destroy the floor panel sealing cap (2) and replace it.



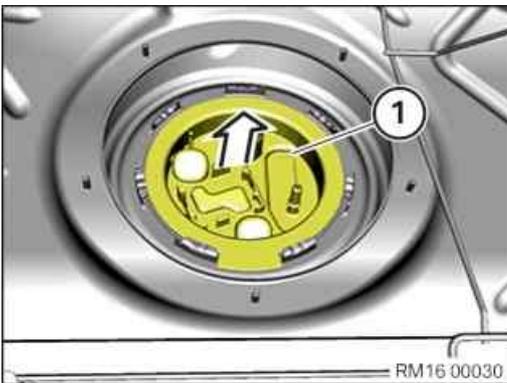
Disconnect plug connection (1).



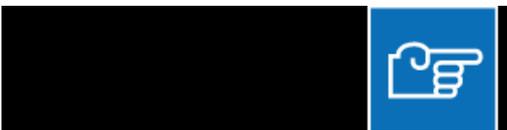
Push the snap fastener toward the delivery unit. Next, press retaining lugs (1) and (2) and pull off the snap fastener in direction of arrow.



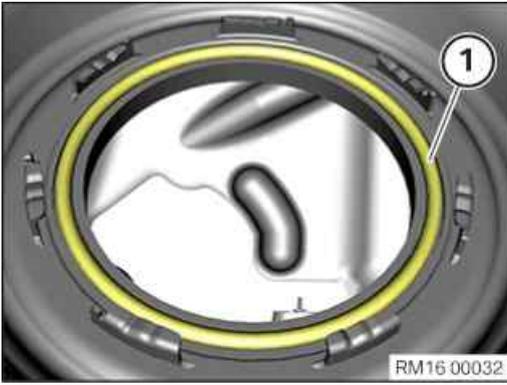
Position special tool [2 452 189](#) or [2 445 958](#) (1) from the top onto locking ring (2).
Connect special tool [33 5 070](#) with reversible ratchet head 1/2" (3) and place on special tool [2 452 189](#) [2 445 958](#) .
Release locking ring (2) in counterclockwise direction.



Remove delivery unit (1) in direction of arrow from the fuel tank.



Installation:

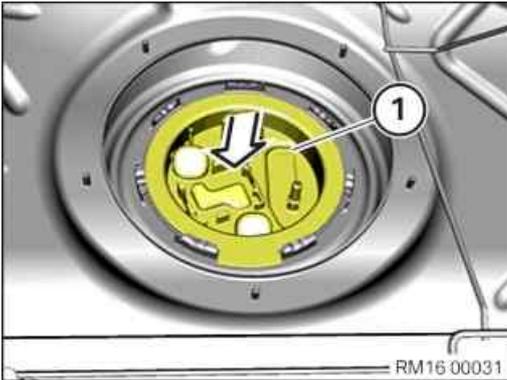


Attention!

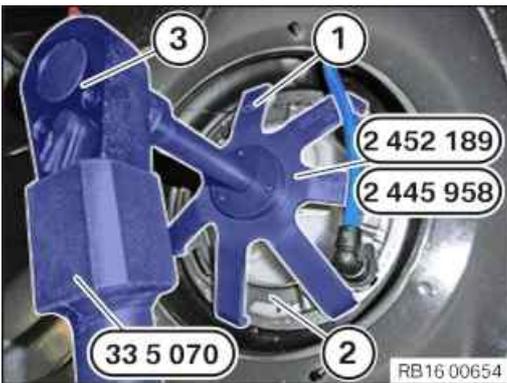
Replace the gasket (1) after each disassembly of the delivery unit.

Parts: Renew gasket.

Mount gasket (1).



Install delivery unit (1) in direction of arrow in the fuel tank.



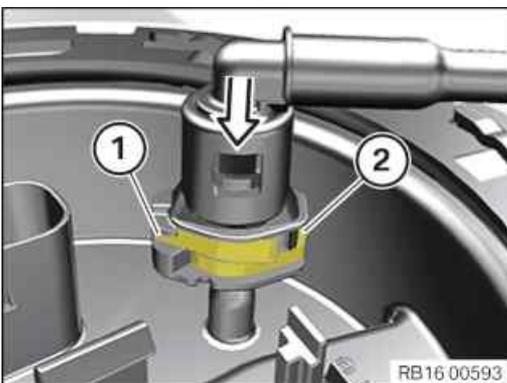
Position special tool [2 452 189](#) or [2 445 958](#) (1) from the top onto locking ring (2).

Connect special tool [33 5 070](#) with reversible ratchet head 1/2" (3) and place on special tool [2 452 189](#) [2 445 958](#) .

Tighten locking ring (2) in clockwise direction.

Attention!

Make sure that latch mechanism of locking ring for fuel tank is correctly engaged!



Locking tabs (1) and (2) must be locked.

Mount the snap fastener and lock.

Attention!

Check locks of snap fastener for damage, and replace if necessary!

Snap fastener must be felt and heard to snap into place.

Ensure correct locking of the snap fastener by means of a countermove test.



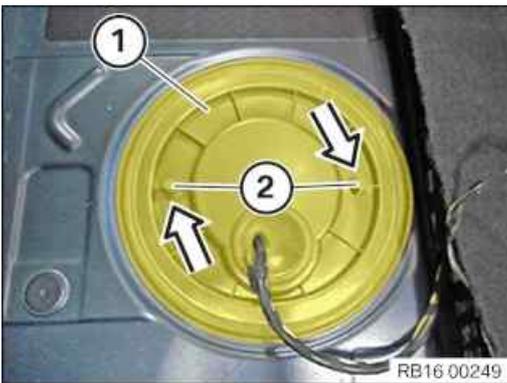
Connect plug connection (1).



Always replace floor panel sealing cap.

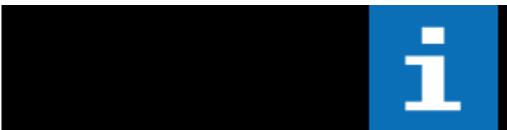
Leaks may occur if reused.

Coat gasket in area (1) using Carbaflo KSP 105 lubricant (see Electronic Parts Catalogue).



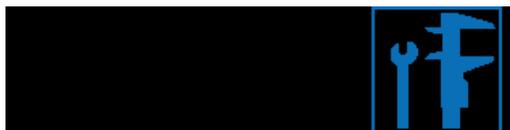
Mount floor panel sealing cap (1).

Latch floor panel sealing cap (1) at plastic tabs (2) in direction of arrow up to end stop.



Required reworking:

- [Install rear seat.](#)
- [Add fuel.](#)



Special tools required:

- [2 452 189](#)
- [2 445 958](#)
- [33 5 070](#)

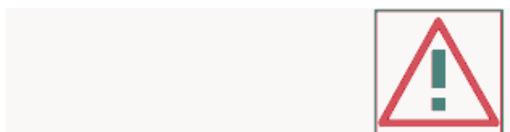


Recycling

Fuel escapes when fuel lines are detached. Have a suitable collecting vessel ready.

Catch and dispose of escaping fuel.

Observe country-specific waste disposal regulations.

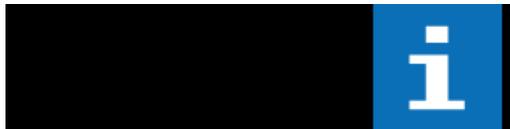


Attention!

Ensure adequate ventilation in the workbay!

Avoid skin contact (wear gloves)!

Ensure cleanliness when performing repairs on the open fuel system.
Dirt contamination in the fuel tank may impair driving or may even result in vehicle breakdown.

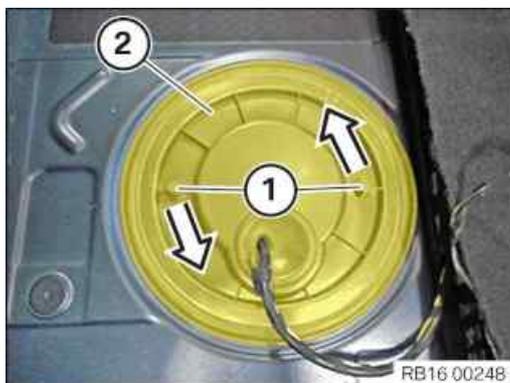


Necessary preliminary work:

- Remove [rear seat](#).
- [Extract fuel from fuel tank](#)



Removal:



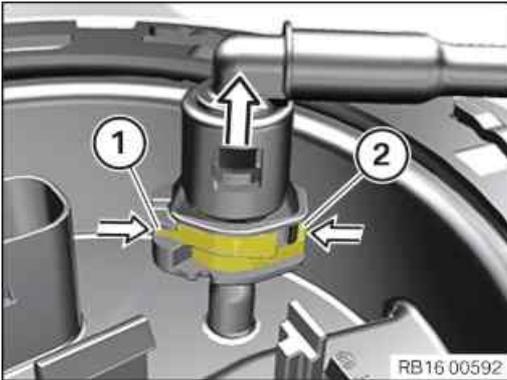
Unscrew floor panel sealing cap (2) at plastic tabs (1) in direction of arrow.

Remove floor panel sealing cap (2).

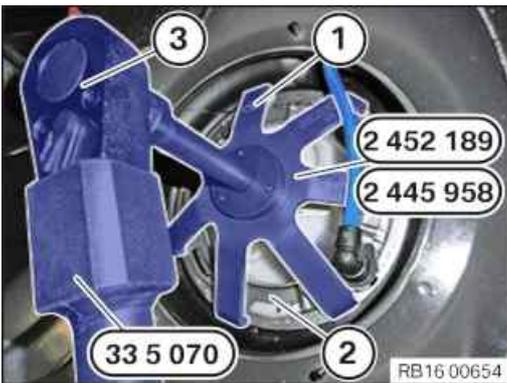
If unscrewing is not possible, destroy the floor panel sealing cap (2) and replace it.



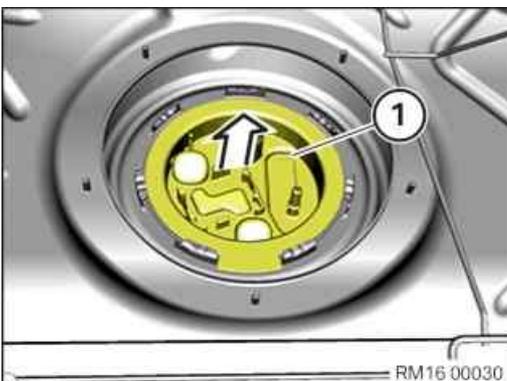
Disconnect plug connection (1).



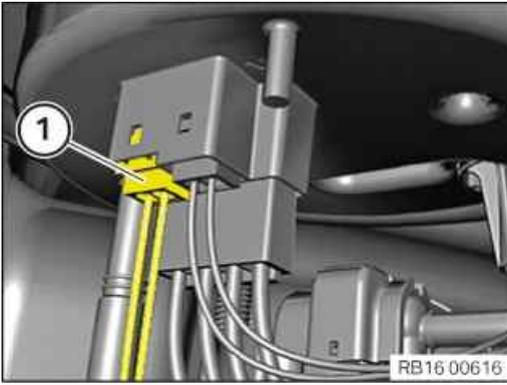
Push the snap fastener toward the delivery unit. Next, press retaining lugs (1) and (2) and pull off the snap fastener in direction of arrow.



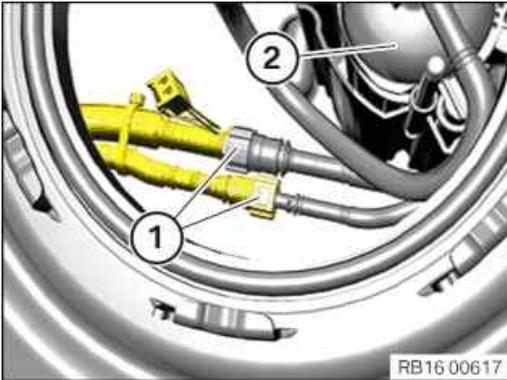
Position special tool [2 452 189](#) or [2 445 958](#) (1) from the top onto locking ring (2).
Connect special tool [33 5 070](#) with reversible ratchet head 1/2" (3) and place on special tool [2 452 189](#) [2 445 958](#) .
Release locking ring (2) in counterclockwise direction.



Lift service cap (1) in the direction of the arrow.



Disconnect plug connection (1).



Unlock and disconnect snap fasteners (1).
Remove delivery unit (2).



Installation:

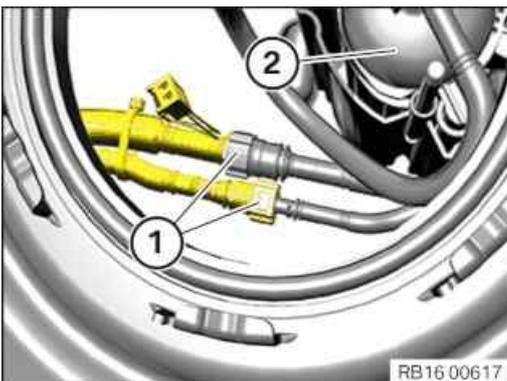


Attention!

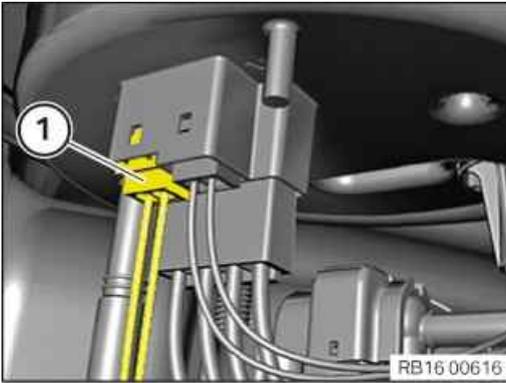
Replace the gasket (1) after each disassembly of the delivery unit.

Parts: Renew gasket.

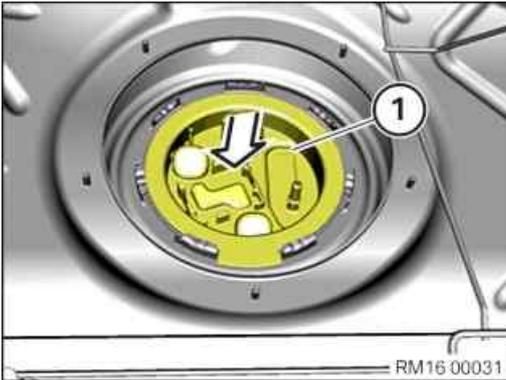
Mount gasket (1).



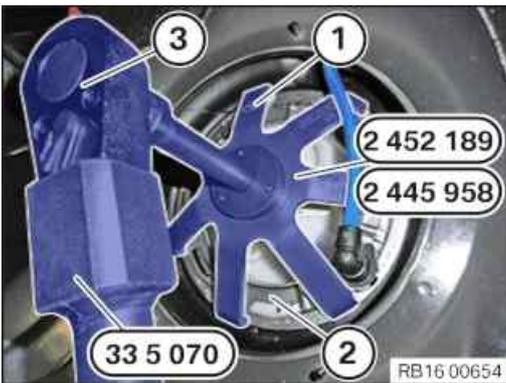
Position delivery unit (2).
Attach snap fasteners (1) and lock.



Connect plug connection (1).



Install service cap (1) in the direction of the arrow.



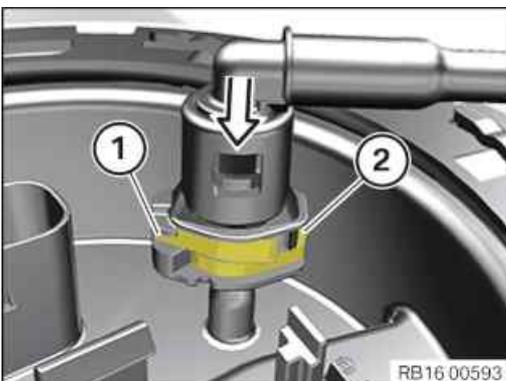
Position special tool [2 452 189](#) or [2 445 958](#) (1) from the top onto locking ring (2).

Connect special tool [33 5 070](#) with reversible ratchet head 1/2" (3) and place on special tool [2 452 189](#) [2 445 958](#) .

Tighten locking ring (2) in clockwise direction.

Attention!

Make sure that latch mechanism of locking ring for fuel tank is correctly engaged!



Locking tabs (1) and (2) must be locked.

Mount the snap fastener and lock.

Attention!

Check locks of snap fastener for damage, and replace if necessary!

Snap fastener must be felt and heard to snap into place.

Ensure correct locking of the snap fastener by means of a countermove test.



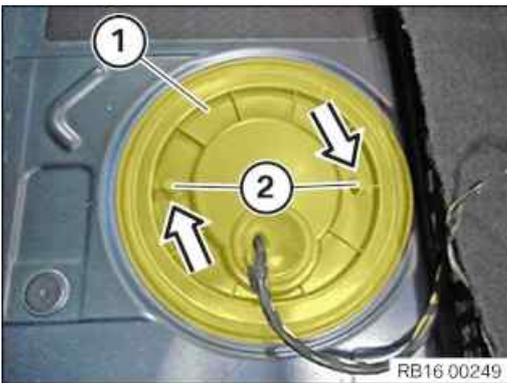
Connect plug connection (1).



Always replace floor panel sealing cap.

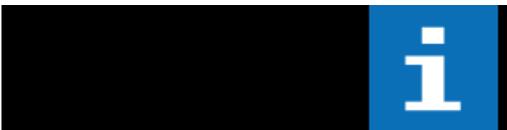
Leaks may occur if reused.

Coat gasket in area (1) using Carbaflo KSP 105 lubricant (see Electronic Parts Catalogue).



Mount floor panel sealing cap (1).

Latch floor panel sealing cap (1) at plastic tabs (2) in direction of arrow up to end stop.



Required reworking:

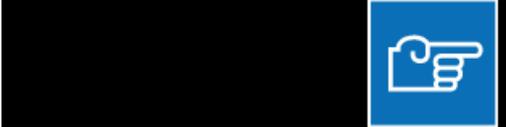
- [Install rear seat.](#)
- [Add fuel.](#)

16 12 001 Removing and installing/replacing fuel level sensor (diesel fuel)

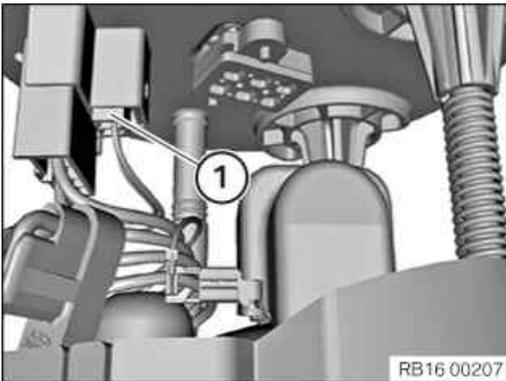


Necessary preliminary tasks:

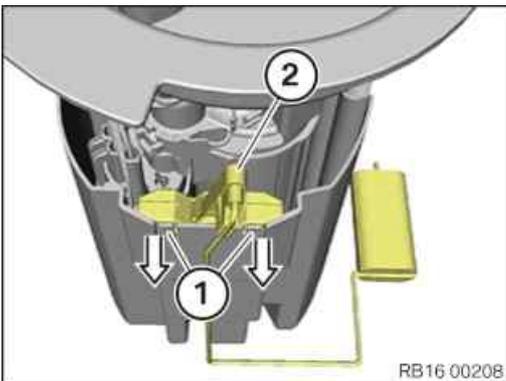
- Remove [delivery unit](#).



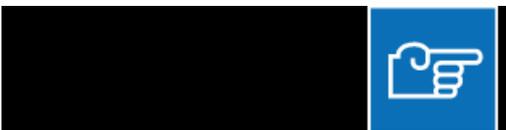
Removal:



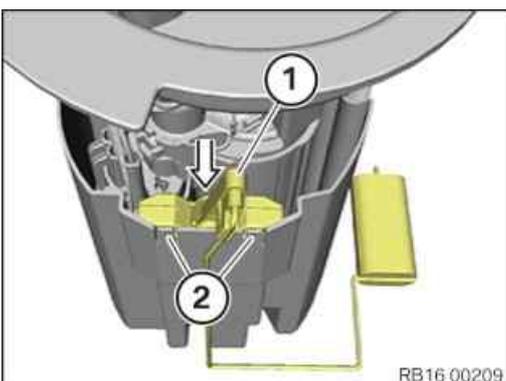
Disconnect plug connection (1).



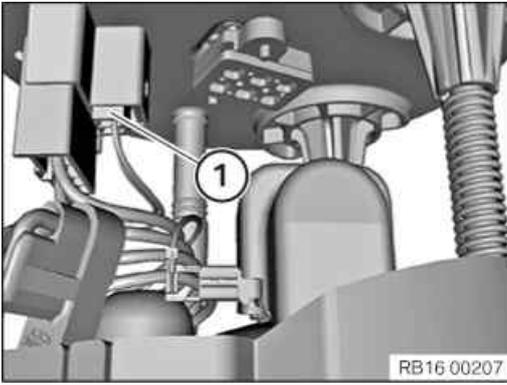
Unlock locking tab (1) and remove fuel level sensor (2) in direction of arrow.



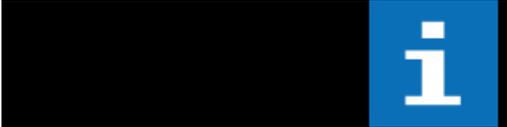
Installation:



Install fuel level sensor (1) in direction of arrow. **Important!**
Make sure the fuel level sensor engages correctly (2).

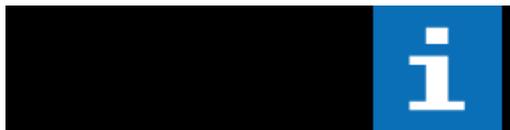


Connect plug connection (1).



Required follow-up work:

- [Install delivery unit.](#)

*Note:*

The electric fuel pump cannot be replaced separately.

The entire delivery unit must be replaced.

This operation is described in: [Remove and install the delivery unit](#)



Special tools required:

- [2 452 189](#)
- [2 445 958](#)
- [33 5 070](#)

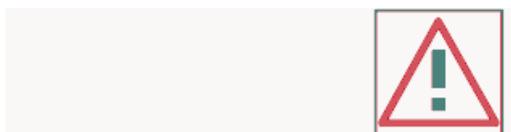


Recycling

Fuel escapes when fuel lines are detached. Have a suitable collecting vessel ready.

Catch and dispose of escaping fuel.

Observe country-specific waste disposal regulations.

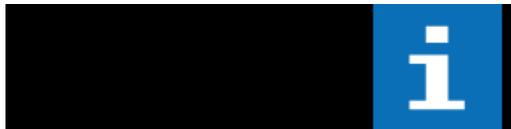


Attention!

Ensure adequate ventilation in the workbay!

Avoid skin contact (wear gloves)!

Ensure cleanliness when performing repairs on the open fuel system.
Dirt contamination in the fuel tank may impair driving or may even result in vehicle breakdown.

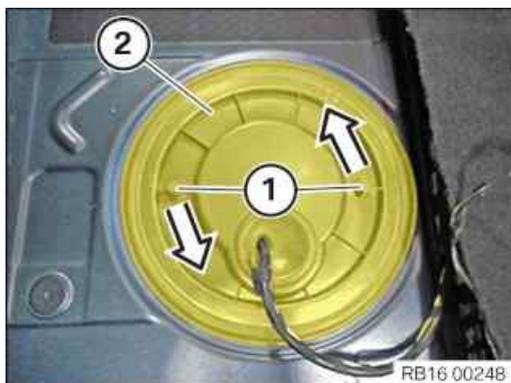


Necessary preliminary work:

- Remove [rear seat](#).
- [Extract fuel from fuel tank](#)



Removal:



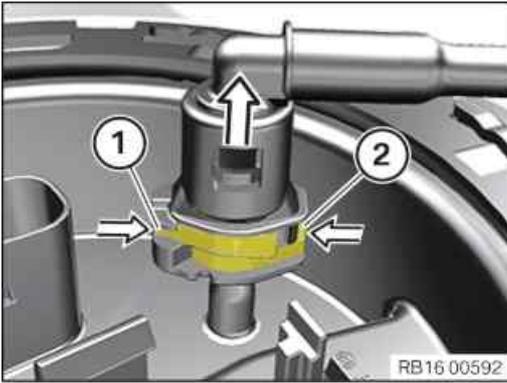
Unscrew floor panel sealing cap (2) at plastic tabs (1) in direction of arrow.

Remove floor panel sealing cap (2).

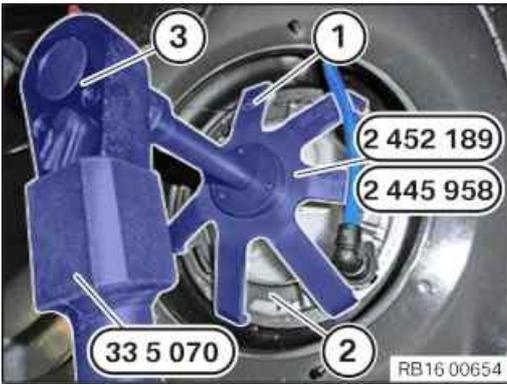
If unscrewing is not possible, destroy the floor panel sealing cap (2) and replace it.



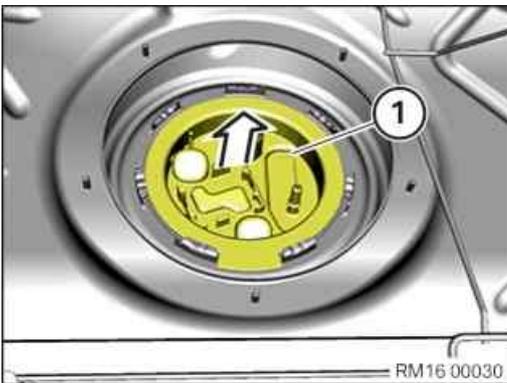
Disconnect plug connection (1).



Push the snap fastener toward the delivery unit. Next, press retaining lugs (1) and (2) and pull off the snap fastener in direction of arrow.



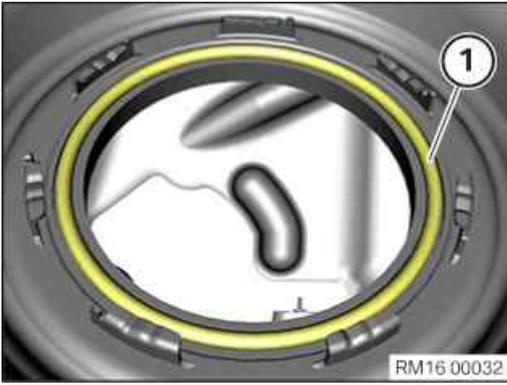
Position special tool [2 452 189](#) or [2 445 958](#) (1) from the top onto locking ring (2).
Connect special tool [33 5 070](#) with reversible ratchet head 1/2" (3) and place on special tool [2 452 189](#) [2 445 958](#) .
Release locking ring (2) in counterclockwise direction.



Remove delivery unit (1) in direction of arrow from the fuel tank.



Installation:

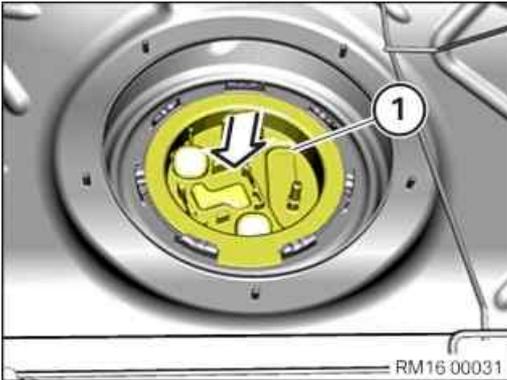


Attention!

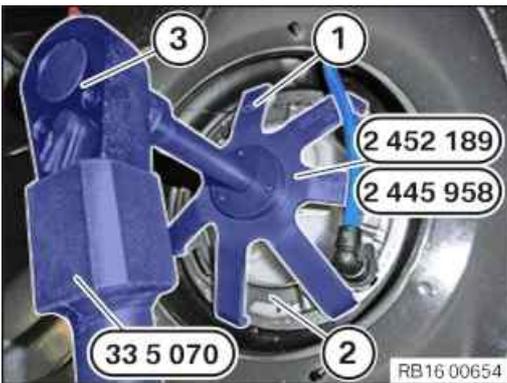
Replace the gasket (1) after each disassembly of the delivery unit.

Parts: Renew gasket.

Mount gasket (1).



Install delivery unit (1) in direction of arrow in the fuel tank.



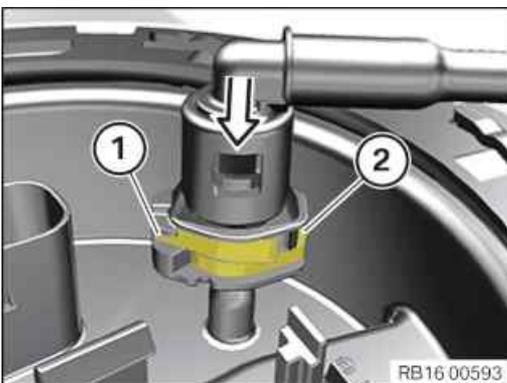
Position special tool [2 452 189](#) or [2 445 958](#) (1) from the top onto locking ring (2).

Connect special tool [33 5 070](#) with reversible ratchet head 1/2" (3) and place on special tool [2 452 189](#) [2 445 958](#) .

Tighten locking ring (2) in clockwise direction.

Attention!

Make sure that latch mechanism of locking ring for fuel tank is correctly engaged!



Locking tabs (1) and (2) must be locked.

Mount the snap fastener and lock.

Attention!

Check locks of snap fastener for damage, and replace if necessary!

Snap fastener must be felt and heard to snap into place.

Ensure correct locking of the snap fastener by means of a countermove test.



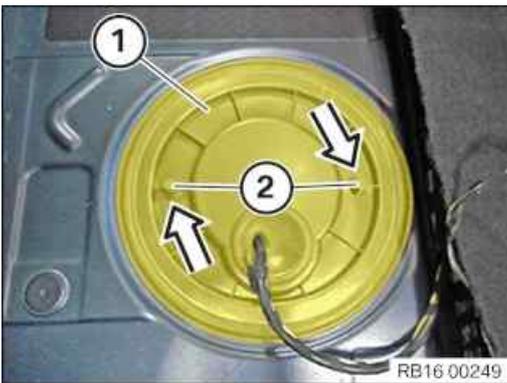
Connect plug connection (1).



Always replace floor panel sealing cap.

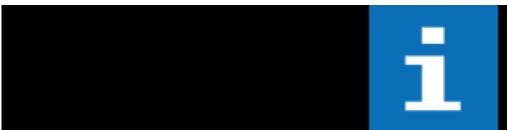
Leaks may occur if reused.

Coat gasket in area (1) using Carbaflo KSP 105 lubricant (see Electronic Parts Catalogue).



Mount floor panel sealing cap (1).

Latch floor panel sealing cap (1) at plastic tabs (2) in direction of arrow up to end stop.



Required reworking:

- [Install rear seat.](#)
- [Add fuel.](#)



Special tools required:

- [2 452 189](#)
- [2 445 958](#)
- [33 5 070](#)

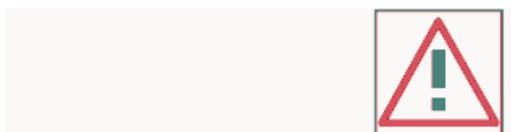


Recycling

Fuel escapes when fuel lines are detached. Have a suitable collecting vessel ready.

Catch and dispose of escaping fuel.

Observe country-specific waste disposal regulations.

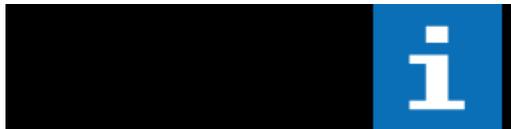


Attention!

Ensure adequate ventilation in the workbay!

Avoid skin contact (wear gloves)!

Ensure cleanliness when performing repairs on the open fuel system.
Dirt contamination in the fuel tank may impair driving or may even result in vehicle breakdown.

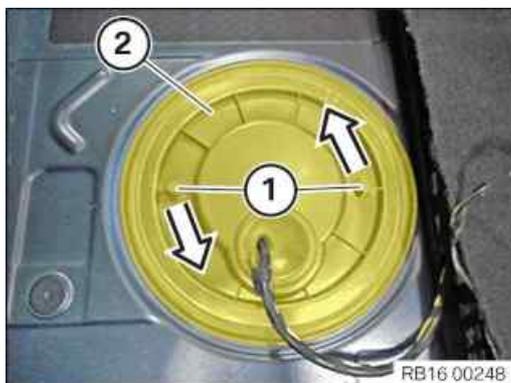


Necessary preliminary work:

- Remove [rear seat](#).
- [Extract fuel from fuel tank](#)



Removal:



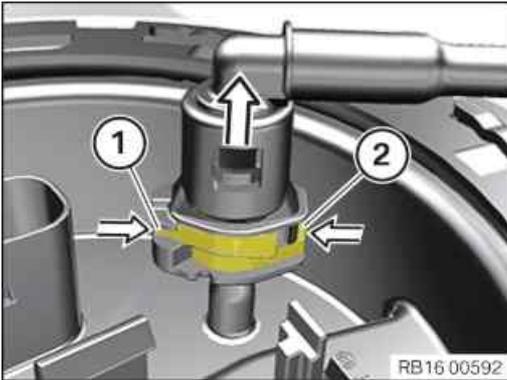
Unscrew floor panel sealing cap (2) at plastic tabs (1) in direction of arrow.

Remove floor panel sealing cap (2).

If unscrewing is not possible, destroy the floor panel sealing cap (2) and replace it.



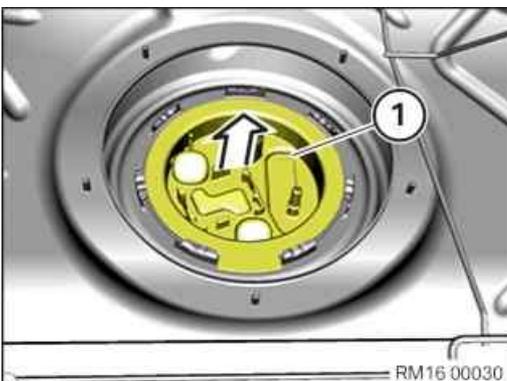
Disconnect plug connection (1).



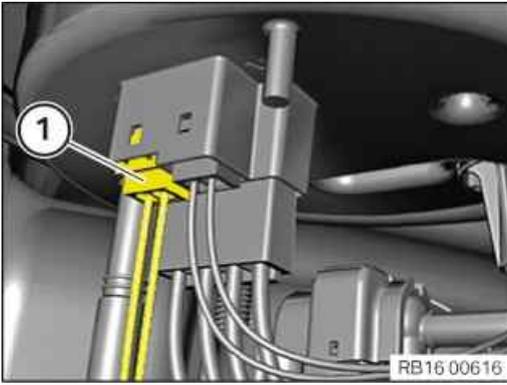
Push the snap fastener toward the delivery unit. Next, press retaining lugs (1) and (2) and pull off the snap fastener in direction of arrow.



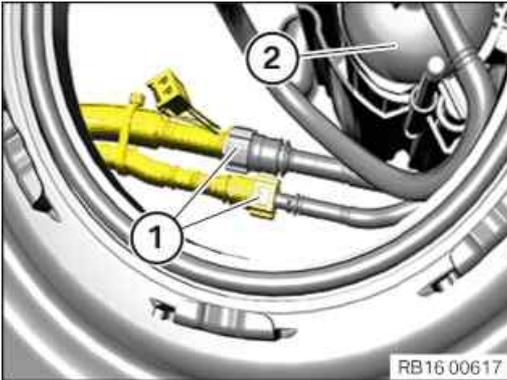
Position special tool [2 452 189](#) or [2 445 958](#) (1) from the top onto locking ring (2).
Connect special tool [33 5 070](#) with reversible ratchet head 1/2" (3) and place on special tool [2 452 189](#) [2 445 958](#) .
Release locking ring (2) in counterclockwise direction.



Lift service cap (1) in the direction of the arrow.



Disconnect plug connection (1).



Unlock and disconnect snap fasteners (1).
Remove delivery unit (2).



Installation:

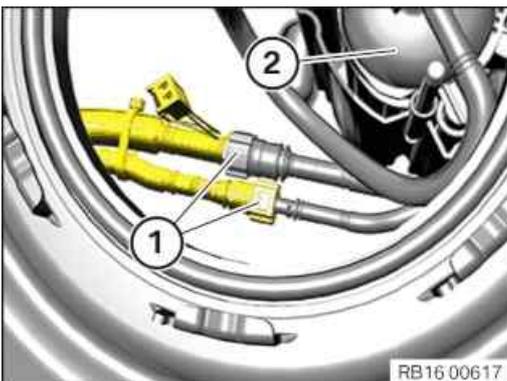


Attention!

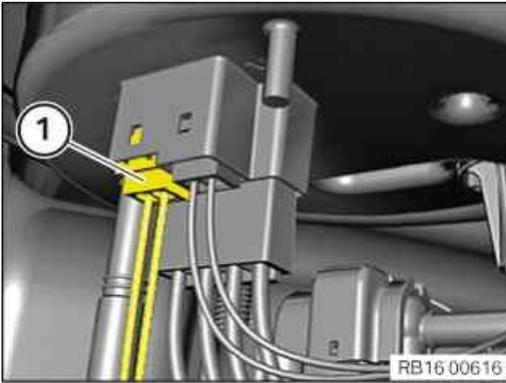
Replace the gasket (1) after each disassembly of the delivery unit.

Parts: Renew gasket.

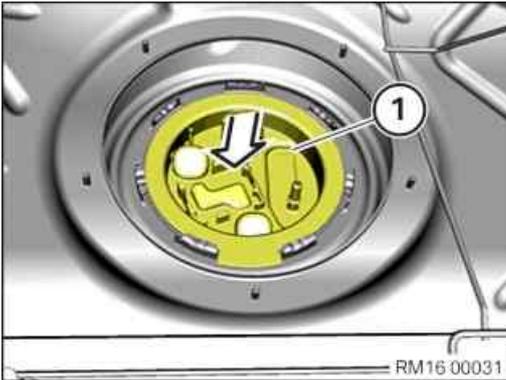
Mount gasket (1).



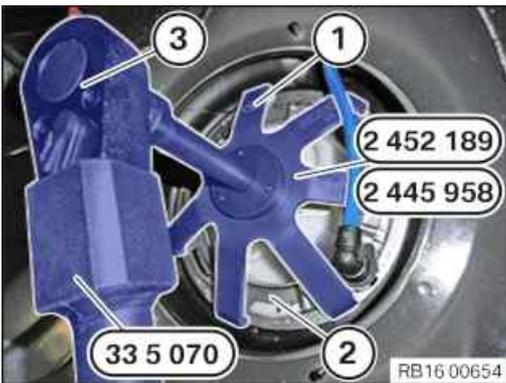
Position delivery unit (2).
Attach snap fasteners (1) and lock.



Connect plug connection (1).



Install service cap (1) in the direction of the arrow.



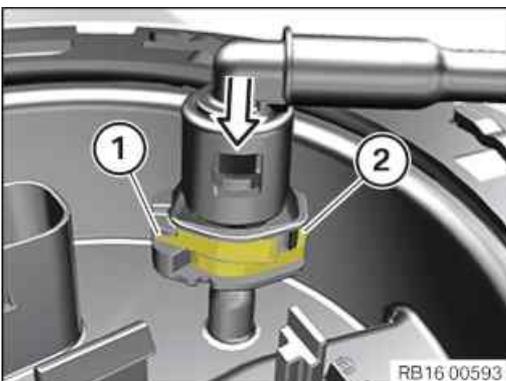
Position special tool [2 452 189](#) or [2 445 958](#) (1) from the top onto locking ring (2).

Connect special tool [33 5 070](#) with reversible ratchet head 1/2" (3) and place on special tool [2 452 189](#) [2 445 958](#) .

Tighten locking ring (2) in clockwise direction.

Attention!

Make sure that latch mechanism of locking ring for fuel tank is correctly engaged!



Locking tabs (1) and (2) must be locked.

Mount the snap fastener and lock.

Attention!

Check locks of snap fastener for damage, and replace if necessary!

Snap fastener must be felt and heard to snap into place.

Ensure correct locking of the snap fastener by means of a countermove test.



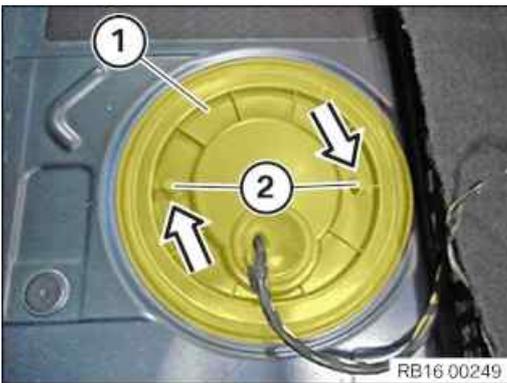
Connect plug connection (1).



Always replace floor panel sealing cap.

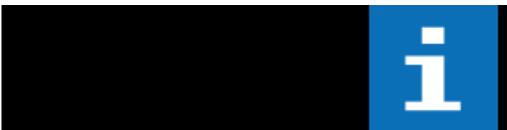
Leaks may occur if reused.

Coat gasket in area (1) using Carbaflo KSP 105 lubricant (see Electronic Parts Catalogue).



Mount floor panel sealing cap (1).

Latch floor panel sealing cap (1) at plastic tabs (2) in direction of arrow up to end stop.



Required reworking:

- [Install rear seat.](#)
- [Add fuel.](#)

16 14 500 electronics

Removing and installing/replacing the fuel pump control



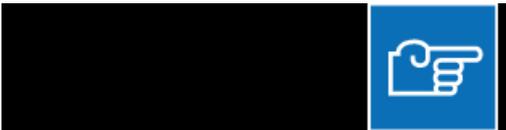
Attention!

Read and comply with notes on [protection against electrostatic discharge \(ESD protection\)](#).

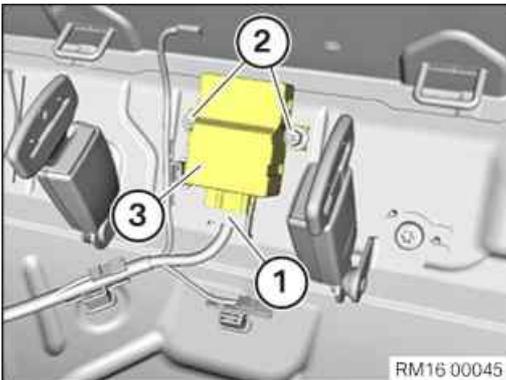


Necessary preliminary work:

- Remove [rear seat bench](#).



Removal:

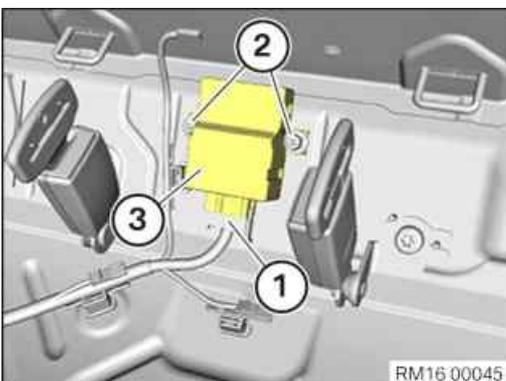


Disconnect plug connection (1).

Release nuts (2) and remove control unit (3).



Installation:



Install control unit (3).

Insert nuts (2) and tighten.

Tightening torque [16 14 1AZ](#).

Position plug connection (1) and lock.



Required follow-up work:

- Installing [rear seat bench](#)
- Replacement only: Perform initial operation of electric fuel pumps-control electronics.

16 19 010 Drawing off SCR active reservoir content

1 – Evacuating the SCR reservoir



CAUTION

Materials harmful to health.

Contact with fluids harmful to health!

- Note and follow safety information on containers.
- Conduct all work in appropriate personal protective equipment only.



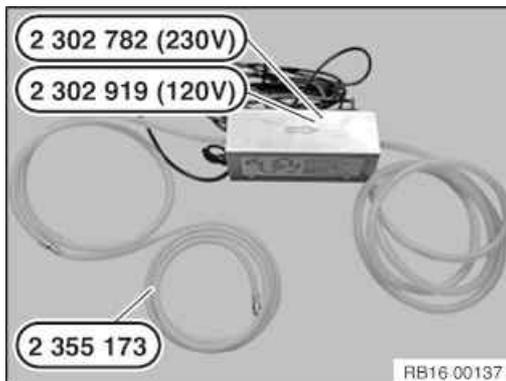
TECHNICAL INFORMATION

Use only lint-free cloths for cleaning the SCR system: WAYPALL cleaning cloths L20 - see BMW Group Parts.



TECHNICAL INFORMATION

After repair work, clean the working area thoroughly with water.
Clean special tools with water after every use.



- Ensure that the right extractor unit is used.
The extractor unit **2 302 782** (for 230 V) or the extractor unit **2 302 919** (for 120 V) must be used.
- Install the suction hose (adapter hose) **2 355 173** on the intake side of the extractor unit.



TECHNICAL INFORMATION

Before starting up the AdBlue extractor unit: Comply with the manufacturer's operating instructions and safety regulations.

- Observe the extraction direction (see arrow on the extractor unit).
- Insert the suction hose (adapter hose) **2 355 173** of the extractor unit in the filler neck (1).
- If necessary, rotate the suction hose while inserting it.
The insertion length of the suction hose is 100 cm.



TECHNICAL INFORMATION

Do not reuse the drawn off AdBlue.

- Extract AdBlue.

Additional Information

Overview of Special Tools

2 302 782 Pump



Common

Used in step 1

Usage AdBlue 230V exhaust pump for the extraction of the urea/water mixture(AdBlue®).

Included in the tool or work

Storage location

Replaced by

In connection with Special tool 2355173

SI-Number 01 30 11 (767)

2 302 919 Pump



Common

Used in step 1

Usage AdBlue 110V exhaust pump for the extraction of the urea/water mixture(AdBlue®) from the vehicle-specific expansion tanks.

Included in the tool or work

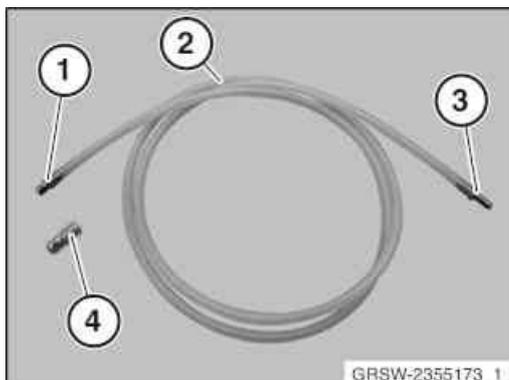
Storage location

Replaced by

In connection with Special tool 2355173

SI-Number 01 30 11 (767)

2 355 173 Hose



Common

Used in step 1

Usage Hose (hose extension) for AdBlue suction pump (81 39 2 302 782 or 81 39 2 302 919). This hose can be used to directly draw off AdBlue® from the "SCR" active tank on the vehicle.

Included in the tool or work

Storage location Individual

Replaced by

In connection with WE 2302782

SI-Number 01 12 13 (964)

16 19 075 Filling SCR reservoir

1 " Filling SCR reservoir



CAUTION

Materials harmful to health.

Contact with fluids harmful to health!

- Note and follow safety information on containers.
- Conduct all work in appropriate personal protective equipment only.



TECHNICAL INFORMATION

Use only lint-free cloths for cleaning the SCR system: WAYPALL cleaning cloths L20 - see BMW Group Parts.



TECHNICAL INFORMATION

After repair work, clean the working area thoroughly with water.
Clean special tools with water after every use.



- Screw the filling hose **2 302 783** with the flatter connection on the fluid tank with the AdBlue.
- Connect the other end of the filling hose **2 302 783** to the filler neck of the SCR tank.
- Hang the fluid tank with the AdBlue from a stand.
- Fill the SCR tank.
- If the SCR fluid tank is full before the fluid tank with the AdBlue is empty: Set the fluid tank down and unscrew the filling hose.
- Ensure that the AdBlue does not leak when unscrewing the filling hose.
- If necessary, immediately wash off any leaking AdBlue thoroughly with water.

Additional Information

Overview of Special Tools

2 302 783 Hose



Common

Used in step **1**

Usage

Filler hose (hose) for drip-free filling of AdBlue in SCR vehicles (for all BMW models except E90 US version). (Disposable hose! Order new part in the case of wear!)

Included in the tool or work

Storage location

Replaced by

In connection with

SI-Number

01 30 11 (767)

16 19 135 Removing and installing connecting piece for active tank SCR



CAUTION

Materials harmful to health.

Contact with fluids harmful to health!

- Note and follow safety information on containers.
- Conduct all work in appropriate personal protective equipment only.



TECHNICAL INFORMATION

Use only lint-free cloths for cleaning the SCR system: WAYPALL cleaning cloths L20 - see BMW Group Parts.



TECHNICAL INFORMATION

After repair work, clean the working area thoroughly with water.
Clean special tools with water after every use.

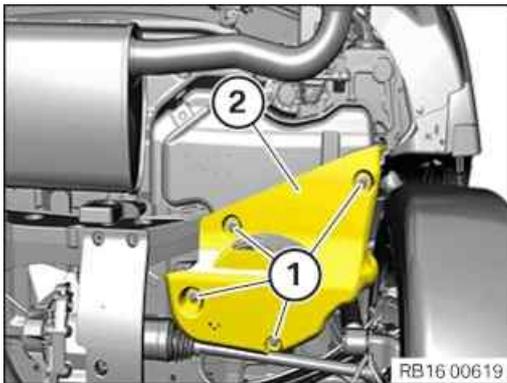


TECHNICAL INFORMATION

After every disassembly and prior to every installation: Always clean connections and covers of lines transporting AdBlue thoroughly with water.
Close connections and AdBlue carrying lines.

PRELIMINARY WORK

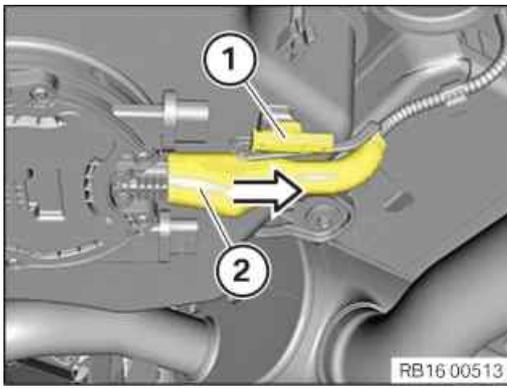
1 – Removing the cover of the SCR tank



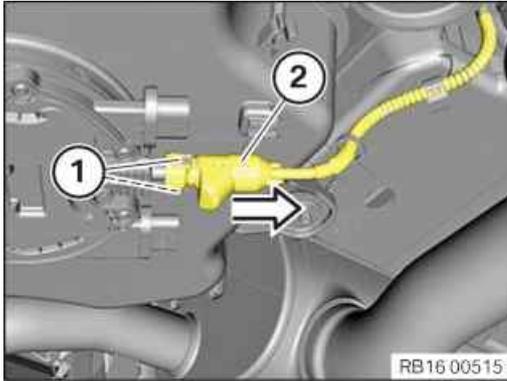
- Loosen plastic nuts (1).
- Remove the cover of the SCR tank (2).

MAIN WORK

2 – Removing the connector of the SCR tank



- Remove the connector (1) from the SCR tank.
- Pull off protective cover (2) in direction of arrow.



- Push the snap fastener (2) toward the delivery unit.
- Press retaining lug (1) and pull off the snap fastener (2) in direction of arrow.



- Release screws (1) with the special insert (2) delivered with the repair kit and a reversible ratchet (3).
- Remove the connector to the bottom.

3 – Installing the connector of the SCR tank.



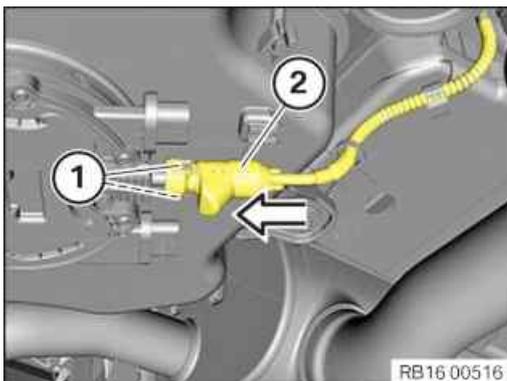
- Renew the screws (1) and the connector.

Parts: Screws and connector

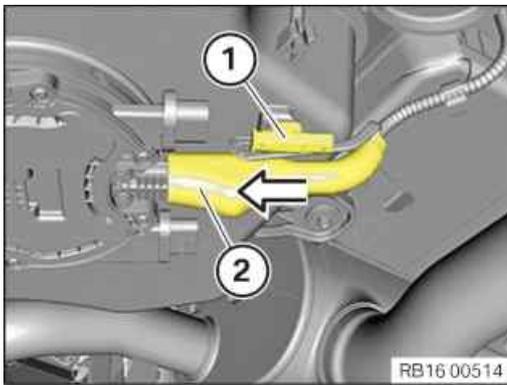
- Position connector.
- Insert screws (1) and tighten with the special insert (2) delivered with the repair kit and a reversible ratchet (3).

Connector on SCR tank

M4 screw	Renew bolts and connector.	Tightening torque	2 Nm
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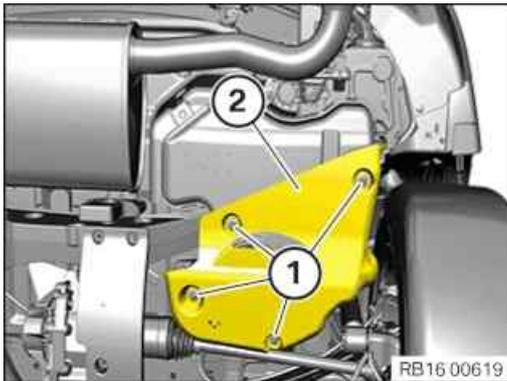
- Position snap fastener (2) and lock.
Retaining lugs (1) must lock completely.



- Engage the connector (1) at the SCR tank.
- Push the protective cover (2) in the direction of the arrow.

POSTPROCESSES

4 – Install the SCR tank cover



- Install the cover of the SCR tank (2).
 - Renew the plastic nuts (1).
- Parts:** Plastic nuts
- Insert plastic nuts (1) and tighten.

Cover on the SCR tank

Plastic nut	Renew plastic nut.	Tightening torque	3 Nm
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5 – Putting the SCR tank system into operation



- Connect diagnosis and information system.
- Carry out start-up of the SCR tank system.
- Reset adaptations and adjustments in the SCR system.

Additional Information

Overview of Tightening Torques

Connector on SCR tank

Used in step 3

M4 screw	Renew bolts and connector.	Tightening torque	2 Nm
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Cover on the SCR tank

Used in step 4

Plastic nut	Renew plastic nut.	Tightening torque	3 Nm
-------------	--------------------	-------------------	------

16 19 020 Removing and installing the active tank SCR

PRELIMINARY WORK

1 – Evacuating the SCR reservoir



CAUTION

Materials harmful to health.

Contact with fluids harmful to health!

- Note and follow safety information on containers.
- Conduct all work in appropriate personal protective equipment only.



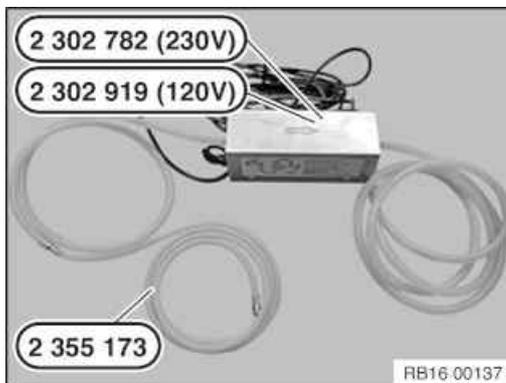
TECHNICAL INFORMATION

Use only lint-free cloths for cleaning the SCR system: WAYPALL cleaning cloths L20 - see BMW Group Parts.



TECHNICAL INFORMATION

After repair work, clean the working area thoroughly with water.
Clean special tools with water after every use.



- Ensure that the right extractor unit is used.
The extractor unit **2 302 782** (for 230 V) or the extractor unit **2 302 919** (for 120 V) must be used.
- Install the suction hose (adapter hose) **2 355 173** on the intake side of the extractor unit.



TECHNICAL INFORMATION

Before starting up the AdBlue extractor unit: Comply with the manufacturer's operating instructions and safety regulations.

- Observe the extraction direction (see arrow on the extractor unit).
- Insert the suction hose (adapter hose) **2 355 173** of the extractor unit in the filler neck (1).
- If necessary, rotate the suction hose while inserting it.
The insertion length of the suction hose is 100 cm.

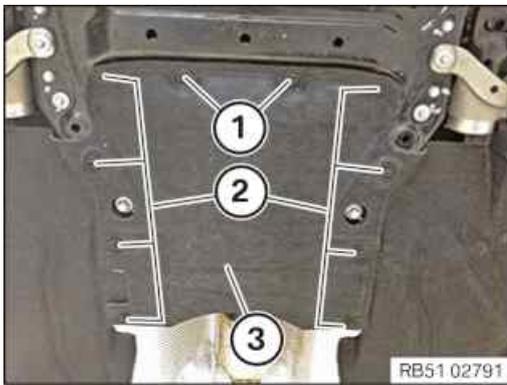


TECHNICAL INFORMATION

Do not reuse the drawn off AdBlue.

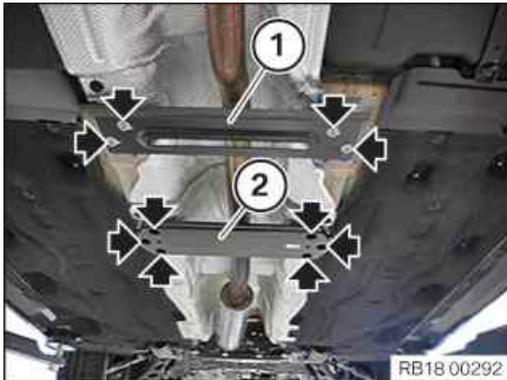
- Extract AdBlue.

2 – If installed: Removing rear underbody protection



- Loosen screws (1) and (2).
- Remove underbody protection (3).

3 – Removing the connecting support from the tunnel in front and back



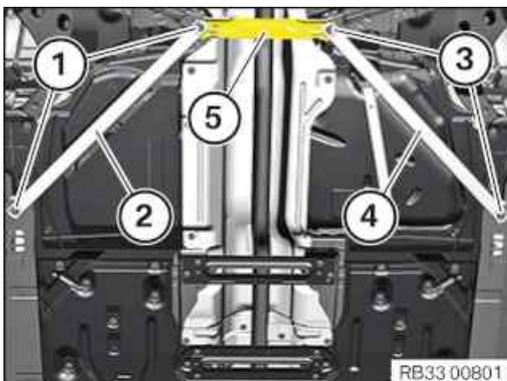
- Unscrew the bolts (arrows) from the connecting support (1).
- Feed out and remove the crossbeam (1).
- Unscrew the bolts (arrows) from the connecting support (2).
- Feed out and remove the crossbeam (2).

4 – Remove the cross strut with the torsion strut



TECHNICAL INFORMATION

Driving without a torsion strut is not permitted.



- Loosen screws (1).
- Thread out torsion strut (2) at left and remove.
- Loosen screws (3).
- Thread out torsion strut (4) at right and remove.
- Feed out and remove the cross-member (5).

5 – Remove exhaust system



WARNING

Hot surfaces.

Risk of burning!

- Perform all work only on components that have cooled down.

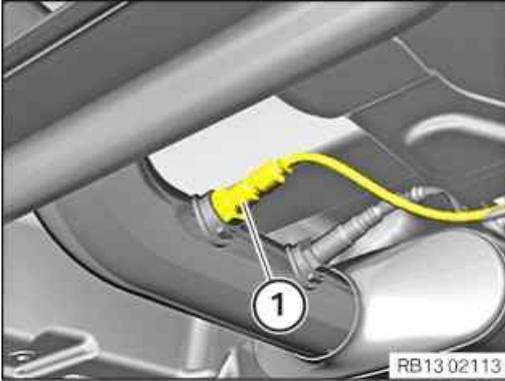


CAUTION

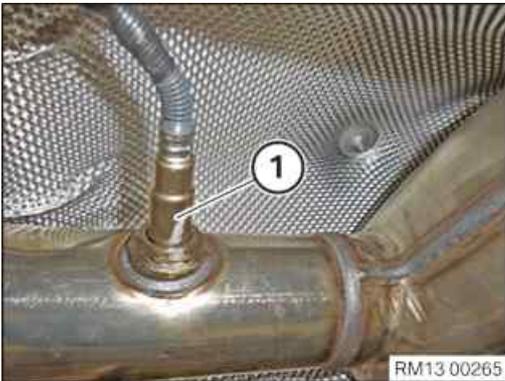
Heavy component.

Heavy components can lead to injury or damage.

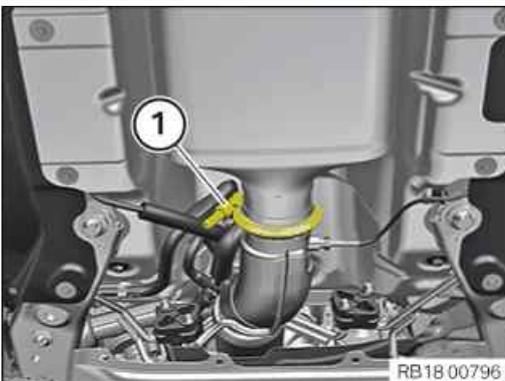
- Remove and install heavy components with the aid of another person/other persons.



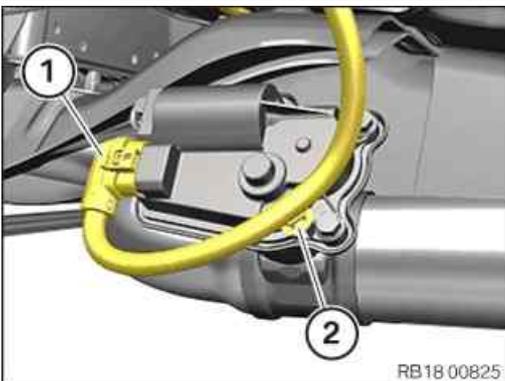
- Release the nitrogen oxide sensor (1) downstream of the SCR catalytic converter, guide it out and set it aside.



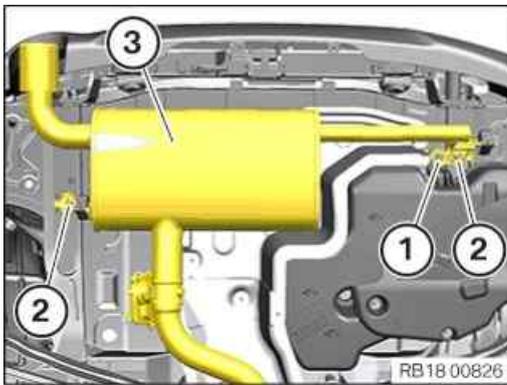
- Release the diesel particulate sensor (1), guide it out and set it aside.



- Loosen V-band clamp (1).



- Unlock and disconnect connector (1).
- Loosen clamp (2).



- Loosen screw (1).
- Loosen nuts (2).
- Lower the exhaust system (3) with an auxiliary person, guide out and remove.

6 – Remove right rear wheel arch cover



NOTICE

To provide a better overview: Schematic diagram with partially hidden components.



NOTICE

Description is for left component only. Procedure on the right side is identical.

► Removing the rear right wheel

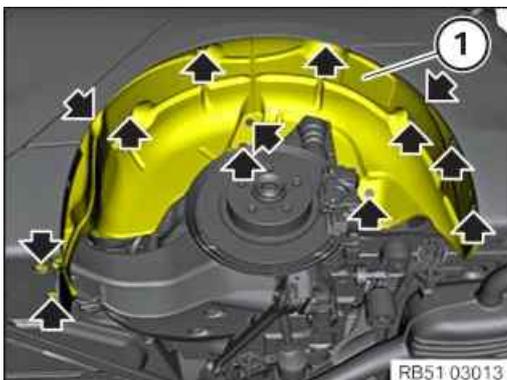
▷ Removing the wheel

- If several wheels are removed simultaneously: Use a piece of chalk to mark on each tyre the axle and side on which the corresponding wheel is fitted.
- Unscrew the wheel bolts (arrows) and remove the wheel.

Use the matching adapter from tool set (wheel bolt adapter set) to loosen and tighten down the wheel bolt with security code.



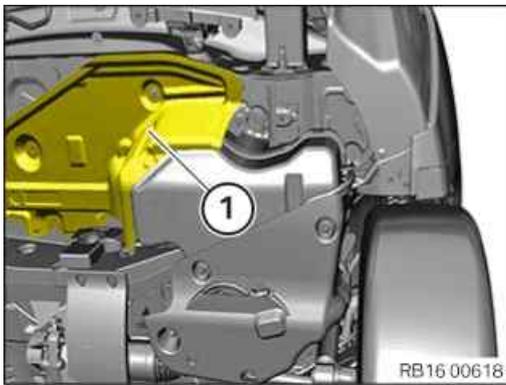
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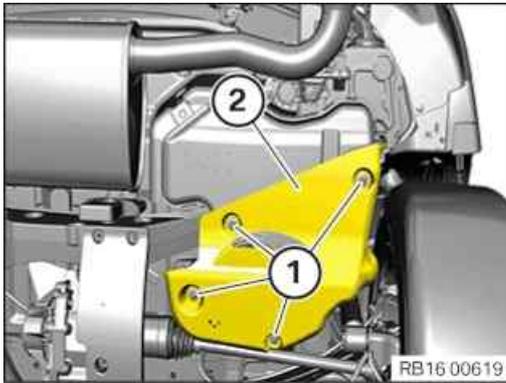
- Unscrew all bolts and nuts (arrows).
- Carefully feed out and remove the wheel arch cover (1).

MAIN WORK

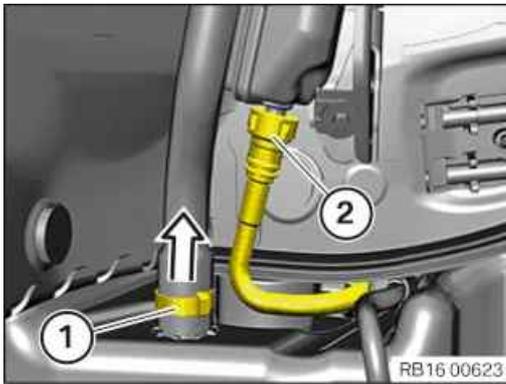
7 – Remove SCR reservoir



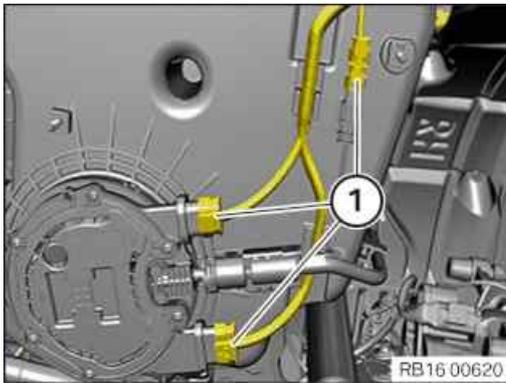
- Remove heat shield (1).



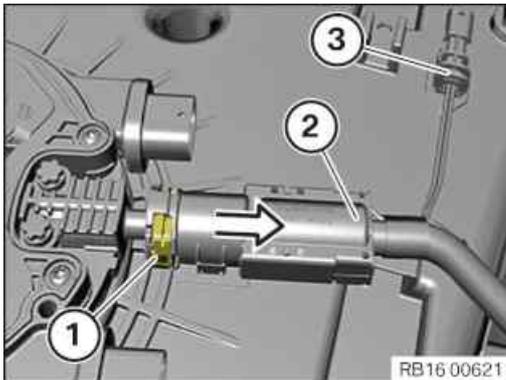
- Loosen plastic nuts (1).
- Remove the cover of the SCR tank (2).



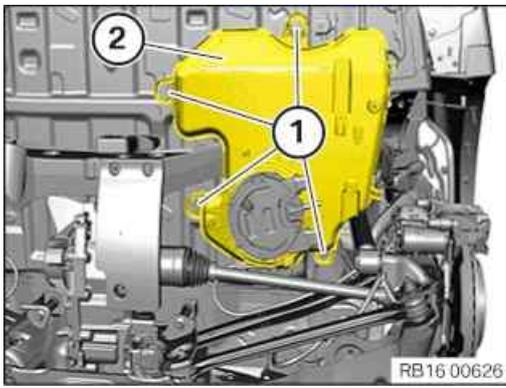
- Loosen hose clamp (1).
- Remove the filling hose in direction of arrow.
- Unlock and disconnect snap fastener (2).



- Disconnect all plug connections (1).

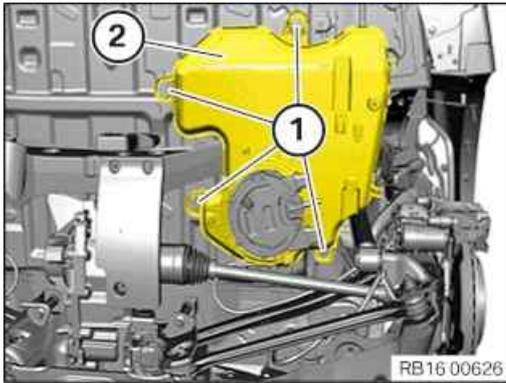


- Push the snap fastener (2) toward the delivery unit.
- Press retaining lug (1) and pull off the snap fastener (2) in direction of arrow.
- Unclip connector (3) from the bracket.

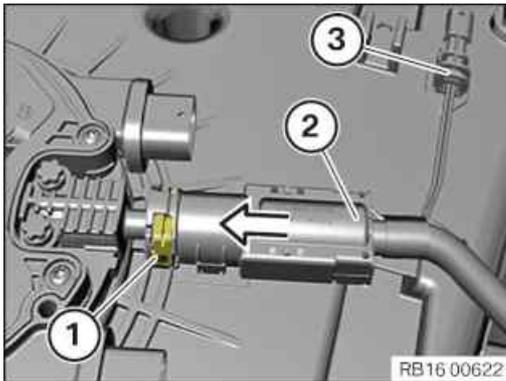


- Support SCR reservoir (2).
- Release the nuts (1), lower the SCR tank (2) and remove it.

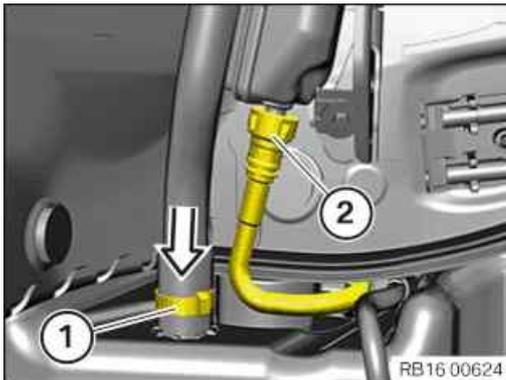
8 – Installing SCR reservoir



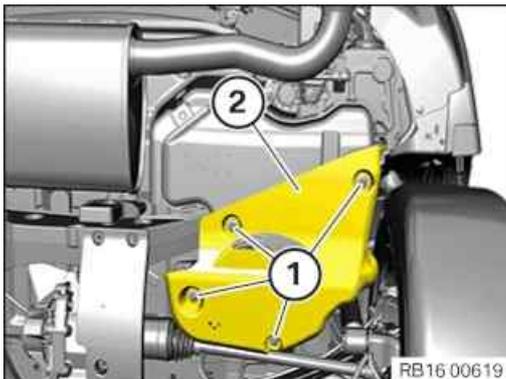
- Position SCR reservoir (2).
 - Renew nuts (1).
- Parts:** Nuts
- Install the nuts (1) and tighten.



- Position snap fastener (2) and lock.
- Ensure that the retaining lug (1) is correctly seated.
- Clip in the connector (3) into the bracket.



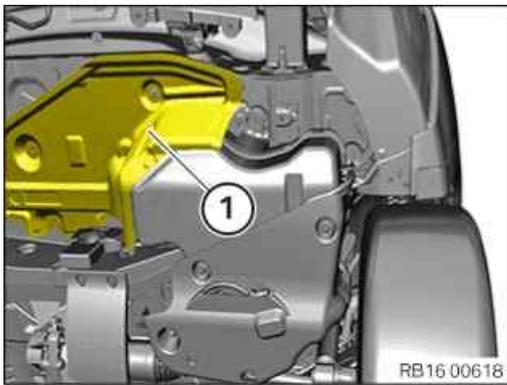
- Renew the hose clamp (1).
- Parts:** Hose clamp
- Install filling hose in the direction of the arrow.
 - Position hose clamp (1) and tighten.
 - Position snap fastener (2) and lock.



- Install the cover of the SCR tank (2).
 - Renew the plastic nuts (1).
- Parts:** Plastic nuts
- Insert plastic nuts (1) and tighten.

Cover on the SCR tank

Plastic nut	Renew plastic nut.	Tightening torque	3 Nm
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- Install heat shield (1).

POSTPROCESSES

9 – Installing the rear wheel arch cover on the right



TECHNICAL INFORMATION

Latch mechanisms, guides and mounting elements must not be damaged or missing.



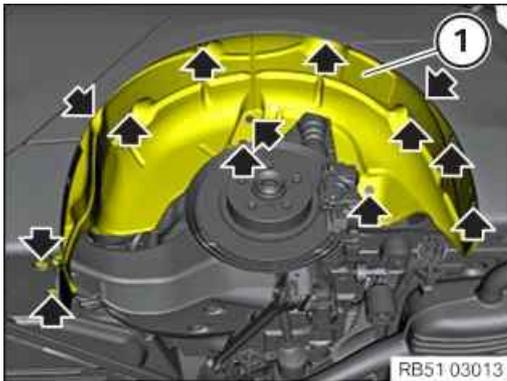
NOTICE

To provide a better overview: Schematic diagram with partially hidden components.



NOTICE

Description is for left component only. Procedure on the right side is identical.



- Feed in wheel arch cover (1) and correctly position it.
- Tighten all bolts and nuts (arrows).

Wheel arch cover to body

Plastic nut		Tightening torque	2,6 Nm
Screw		Tightening torque	2,6 Nm

10 – Installing rear right wheel

► Mounting the wheel

- Clean the contact surfaces between the brake disc and the wheel rim



TECHNICAL INFORMATION

The contact surface between the brake disc and the wheel rim must be clean and free from oil and grease. There is otherwise a risk of the wheel becoming loose at a later time.

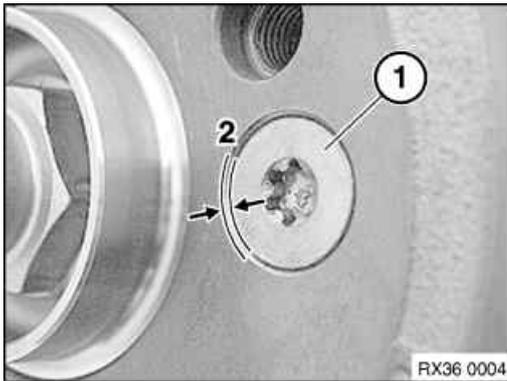
- Remove dirt, grease residues and corrosion from the contact surface with a drill and the special tool **2 344 011**.

Do not operate special tool **2 344 011** with an impact screwdriver.

- Degrease the contact surfaces with the universal cleaner (see BMW Group Parts).
- In the event of grease residue in the area of the wheel bolt holes, remove and clean the brake disc.
- Remove dirt, grease residues and corrosion from the contact surface with a drill and the special tool **2 344 011**.

Do not operate special tool **2 344 011** with an impact screwdriver.

- Degrease the contact surfaces with the universal cleaner (see BMW Group Parts).



- Renew mounting bolt (1).

Parts: Mounting bolt

- Check that the mounting bolt (1) for the brake disc is securely seated.

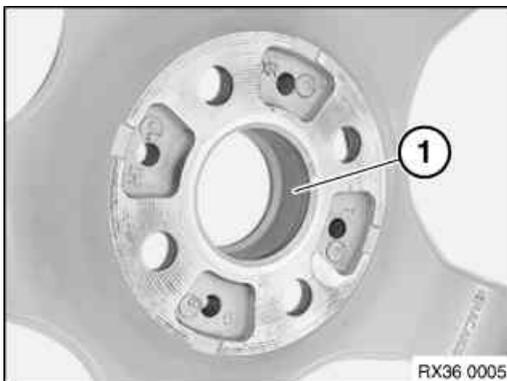
The mounting bolt (1) for the brake disc may not protrude under any circumstances on the contact surface (2) between the brake disc and the wheel rim.

Brake disc to rear wheel hub

M8	Renew screw.	Tightening torque	16 Nm
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Brake disc to front wheel hub

M8	Renew screw.	Tightening torque	16 Nm
----	--------------	-------------------	-------



- Lightly grease the wheel centring (1) in the wheel rim; refer to additional information for grease for the wheel centring (1).



TECHNICAL INFORMATION

Never use impact screwdrivers or electric screwdrivers to screw in and tighten the wheel bolts.

The wheel rim must rest uniformly against the brake disc.

In the case of non-original BMW wheel bolts/wheel rims, it may be necessary to retighten the wheel bolts on account of setting properties (refer to the documentation from the manufacturer).

Do not apply oil to new wheel bolts.

- Renew corroded wheel bolts.

Parts: Wheel bolts

- Clean the wheel bolts.
- Check the wheel bolts and threads for damage, renew the wheel bolts if necessary.
- Join and tighten the wheel bolts (arrows).

Wheel bolts

M 14/AF 17	Screw in wheel bolts and evenly tighten crosswise by hand in order to centre the wheel rim.	Tightening torque	140 Nm
	Tighten wheel bolts to the prescribed tightening torque with a calibrated torque wrench in a crosswise sequence.	Check	140 Nm
	Check all the wheel bolts in the same order or retighten to the prescribed tightening torque again.		

11 – Install exhaust system



CAUTION

Component with heavy weight.

Danger of injury!

- Note component's centre of gravity.
- Support component using a jack.
- Secure component against falling off the jack.

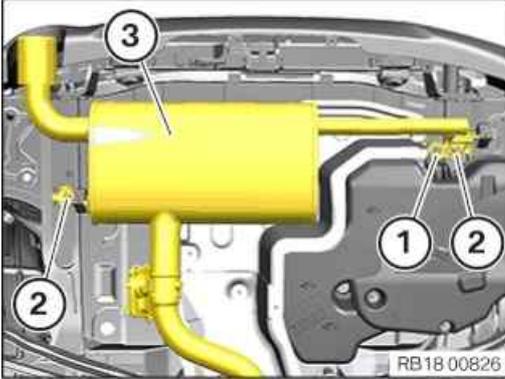


CAUTION

Heavy component.

Heavy components can lead to injury or damage.

- Remove and install heavy components with the aid of another person/other persons.



- Insert and install the exhaust system (3) with the help of another person.

- Renew nuts (2).

Parts: Nuts

- Tighten nuts (2).

Exhaust system to body

M8	Replace nuts.	Tightening torque	19 Nm
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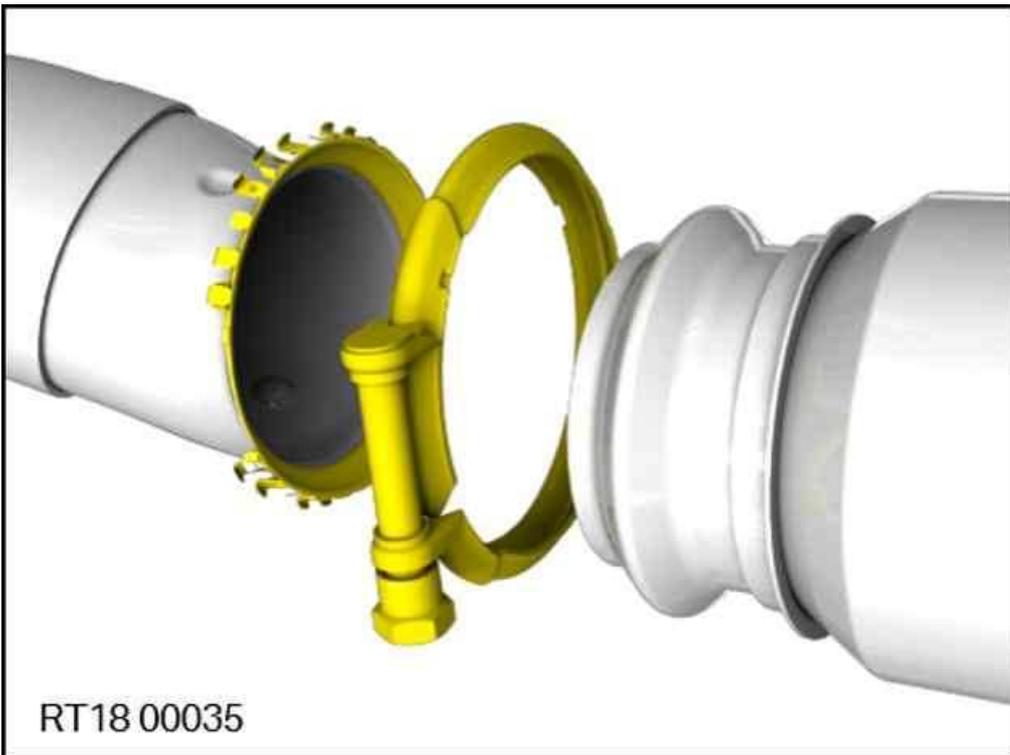
- Tighten down screw (1).

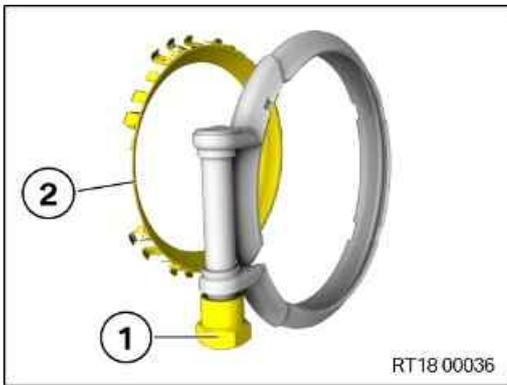
Exhaust bracket on body

Hexagon screw M8x30		Tightening torque	19 Nm
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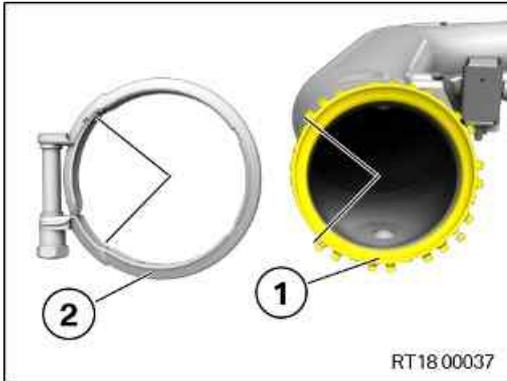
- ▶ Install the V-clip

V-band clamp

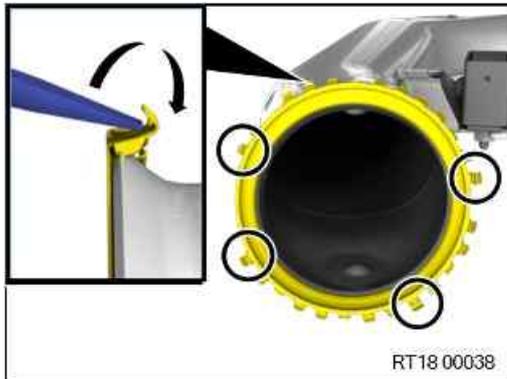




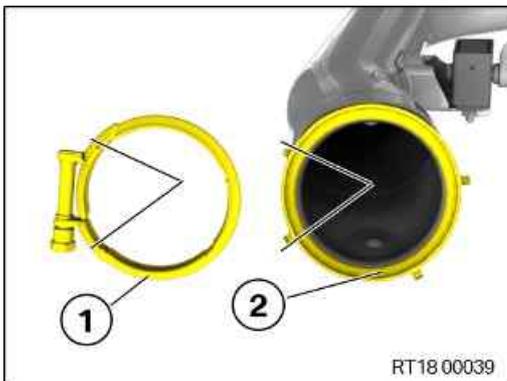
- Unscrew the nut (1) and remove the sealing ring (2).



- Renew the V-clip (2).
- Parts:** V-band clamp
- Mount the sealing ring (1) on the exhaust system.
 - Ensure that the sealing ring (1) for the V-clip (2) is positioned correctly.



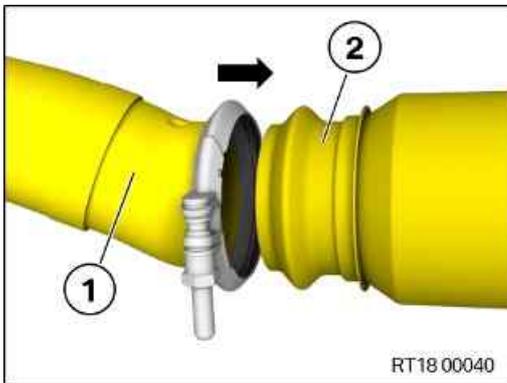
- Bend all sheet metal tabs over with a suitable tool, except those in the marked areas.



- Mount the V-clip (1) on the sealing ring (2).
- Make sure that the V-clip (1) is positioned correctly on the sealing ring (2).

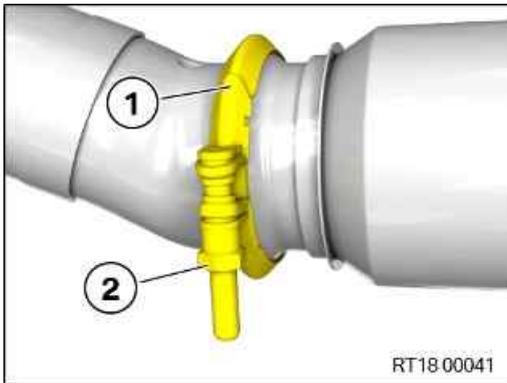


- Make sure that the V-clip rests against the sheet metal tabs after mounting (marks).



- Connect the exhaust system (1) with the catalytic converter (2) and position correctly.

RT18 00040

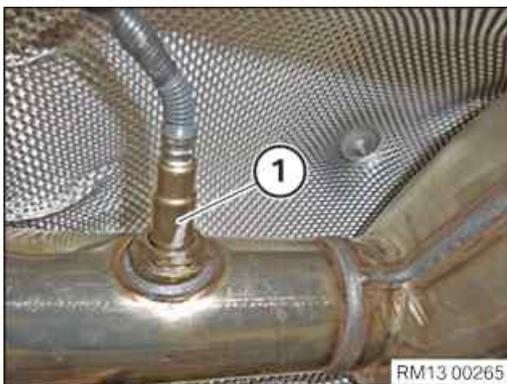


- Make sure that V-clip (1) is fitted correctly.
- Tighten down screw (2).

V-clip to catalytic converter

V-band clamp	Renew V-band clamp.	Tightening torque	22 Nm
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RT18 00041

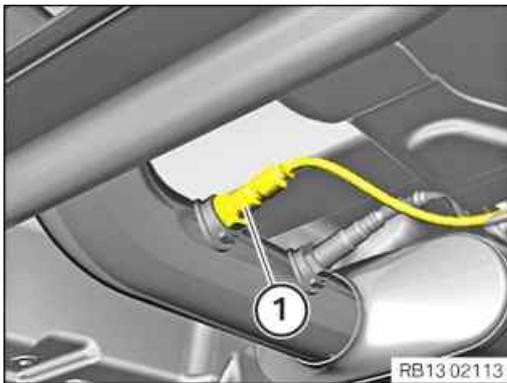


- Guide in, position and tighten the diesel particulate sensor (1).

Diesel particulate sensor to exhaust system

Sensor		Tightening torque	50 Nm
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RM13 00265

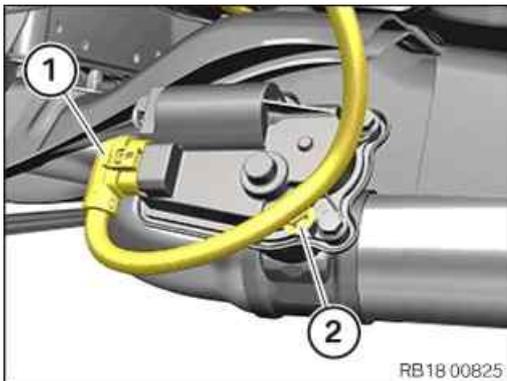


- Guide in, position and tighten the nitrogen oxide sensor (1).

Nitrogen oxide sensor downstream of SCR catalytic converter

Sensor		Tightening torque	50 Nm
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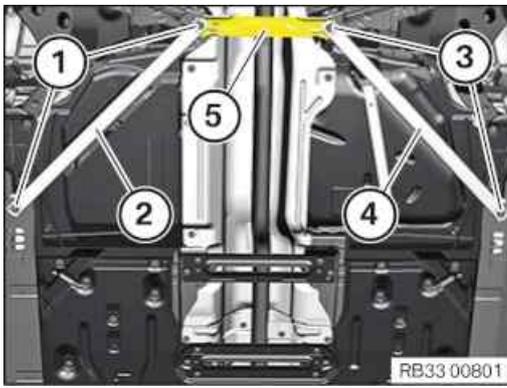
RB13 02113



- Secure clamps (2).
- Connect connectors (1) and lock.
The connector (1) must engage audibly.

RB18 00825

12 – Install the cross-member with torsion struts



- Insert and install the cross-member (5).
- Thread in torsion strut (4) at right and install.
- Renew screws (3).

Parts: Bolts

- Tighten down screws (3).

Cross-member/torsion strut to axle support and mounting

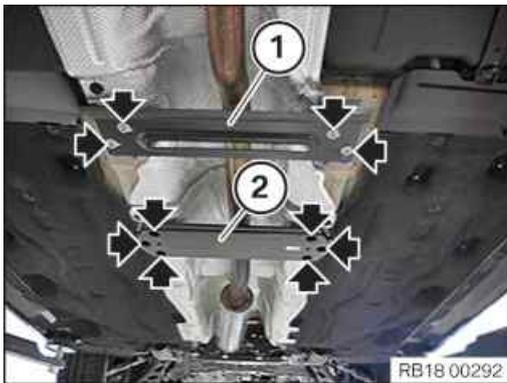
M12x48	Renew screws.	Jointing torque	100 Nm
		Angle of rotation	90 °

- Guide in and install the left torsion strut (2).
 - Renew screws (1).
- Parts:** Bolts
- Tighten the screws (1).

Cross-member/torsion strut to axle support and mounting

M12x48	Renew screws.	Jointing torque	100 Nm
		Angle of rotation	90 °

13 – Install the connecting support on the tunnel in front and back



- Insert and install connecting supports (2).
- Tighten the screws (arrows) from the connecting support (2).

Front connection carrier to body

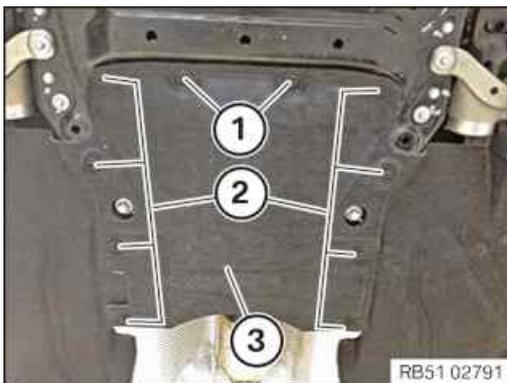
M10x18		Tightening torque	56 Nm
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- Insert and install connecting supports (1).
- Tighten the screws (arrows) from the connecting support (1).

Rear connection carrier to body

M8x18		Tightening torque	28 Nm
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14 – If installed: Installing underbody protection at rear



- Install the underbody protection (3).
- Tighten down screws (1) and (2).

Underbody protection to body

Screw		Tightening torque	3 Nm
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15 – Filling SCR reservoir



CAUTION

Materials harmful to health.

Contact with fluids harmful to health!

- Note and follow safety information on containers.
- Conduct all work in appropriate personal protective equipment only.



TECHNICAL INFORMATION

Use only lint-free cloths for cleaning the SCR system: WAYPALL cleaning cloths L20 - see BMW Group Parts.



TECHNICAL INFORMATION

After repair work, clean the working area thoroughly with water.
Clean special tools with water after every use.



- Screw the filling hose **2 302 783** with the flatter connection on the fluid tank with the AdBlue.
- Connect the other end of the filling hose **2 302 783** to the filler neck of the SCR tank.
- Hang the fluid tank with the AdBlue from a stand.
- Fill the SCR tank.
- If the SCR fluid tank is full before the fluid tank with the AdBlue is empty: Set the fluid tank down and unscrew the filling hose.
- Ensure that the AdBlue does not leak when unscrewing the filling hose.
- If necessary, immediately wash off any leaking AdBlue thoroughly with water.

16 – Putting the SCR tank system into operation



- Connect diagnosis and information system.
- Carry out start-up of the SCR tank system.
- Reset adaptations and adjustments in the SCR system.

Additional Information

Overview of Tightening Torques

Cover on the SCR tank

Used in step 8

Plastic nut	Renew plastic nut.	Tightening torque	3 Nm
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Wheel arch cover to body

Used in step 9

Plastic nut		Tightening torque	2,6 Nm
Screw		Tightening torque	2,6 Nm

Brake disc to rear wheel hub

Used in step 10

M8	Renew screw.	Tightening torque	16 Nm
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Brake disc to front wheel hub			Used in step 10
M8	Renew screw.	Tightening torque	16 Nm
Wheel bolts			Used in step 10
M 14/AF 17	Screw in wheel bolts and evenly tighten crosswise by hand in order to centre the wheel rim. Tighten wheel bolts to the prescribed tightening torque with a calibrated torque wrench in a crosswise sequence. Check all the wheel bolts in the same order or retighten to the prescribed tightening torque again.	Tightening torque	140 Nm
		Check	140 Nm
Exhaust system to body			Used in step 11
M8	Replace nuts.	Tightening torque	19 Nm
Exhaust bracket on body			Used in step 11
Hexagon screw M8x30		Tightening torque	19 Nm
V-clip to catalytic converter			Used in step 11
V-band clamp	Renew V-band clamp.	Tightening torque	22 Nm
Diesel particulate sensor to exhaust system			Used in step 11
Sensor		Tightening torque	50 Nm
Nitrogen oxide sensor downstream of SCR catalytic converter			Used in step 11
Sensor		Tightening torque	50 Nm
Cross-member/torsion strut to axle support and mounting			Used in step 12
M12x48	Renew screws.	Jointing torque	100 Nm
		Angle of rotation	90 °
Front connection carrier to body			Used in step 13
M10x18		Tightening torque	56 Nm
Rear connection carrier to body			Used in step 13
M8x18		Tightening torque	28 Nm
Underbody protection to body			Used in step 14
Screw		Tightening torque	3 Nm

Overview of Special Tools

2 302 782 Pump



Common

Used in step 1

Usage AdBlue 230V exhaust pump for the extraction of the urea/water mixture(AdBlue®).

Included in the tool or work

Storage location

Replaced by

In connection with Special tool 2355173

SI-Number 01 30 11 (767)

2 302 919 Pump



Common

Used in step 1

Usage AdBlue 110V exhaust pump for the extraction of the urea/water mixture(AdBlue®) from the vehicle-specific expansion tanks.

Included in the tool or work

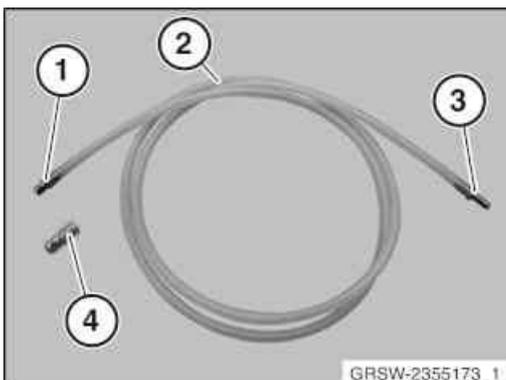
Storage location

Replaced by

In connection with Special tool 2355173

SI-Number 01 30 11 (767)

2 355 173 Hose



Common

Used in step 1

Usage Hose (hose extension) for AdBlue suction pump (81 39 2 302 782 or 81 39 2 302 919). This hose can be used to directly draw off AdBlue® from the "SCR" active tank on the vehicle.

Included in the tool or work

Storage location Individual

Replaced by

In connection with WE 2302782

SI-Number 01 12 13 (964)

2 344 011 Tool



Common

Used in step 10

Usage	Tool (wheel hub grinder) for cleaning the connection of the wheel rim (wheel contact face) to the wheel hub.
Included in the tool or work	
Storage location	
Replaced by	
In connection with	
SI-Number	08 08 12 (872)

2 302 783 Hose



Common

Used in step 15

Usage	Filler hose (hose) for drip-free filling of AdBlue in SCR vehicles (for all BMW models except E90 US version). (Disposable hose! Order new part in the case of wear!)
Included in the tool or work	
Storage location	
Replaced by	
In connection with	
SI-Number	01 30 11 (767)

Replacement tools:

0 495 221 (36 1 323) Wheel stud

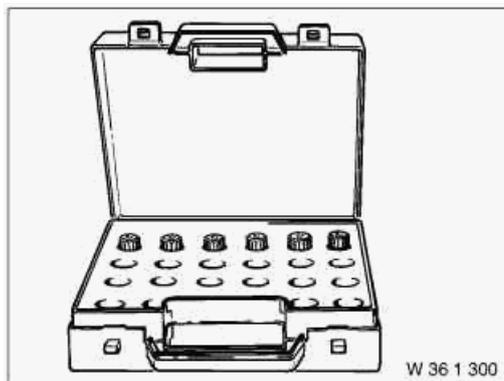


Common

Used in step 6

Usage	(Code 30) Code 39 available separately, (see EPC) under 36 13 1 181 259
Included in the tool or work	0 492 518
Storage location	
Replaced by	
In connection with	
SI-Number	

0 495 224 (36 1 326) Wheel stud

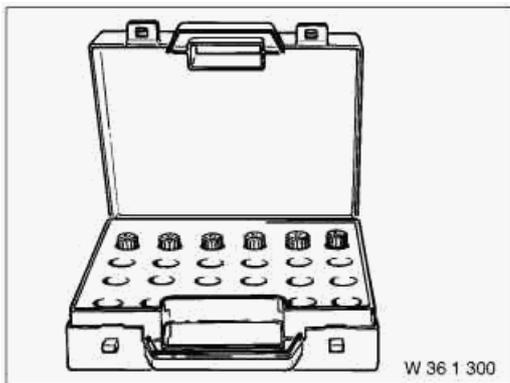


Common

Used in step 6

Usage	(Code 33) With centring bore available separately, (see EPC) under 36 13 6 765 546
Included in the tool or work	0 492 518
Storage location	
Replaced by	
In connection with	
SI-Number	

0 495 225 (36 1 327) Wheel stud



Common

Used in step 6

Usage (Code 34) With centring bore available separately (see EPC) under 36 13 6 765 547

Included in the tool or work 0 492 518

Storage location

Replaced by

In connection with

SI-Number

0 495 226 (36 1 328) Wheel stud



Common

Used in step 6

Usage (Code 35) With centring bore available separately, (see EPC) under 36 13 6 762 340

Included in the tool or work 0 492 518

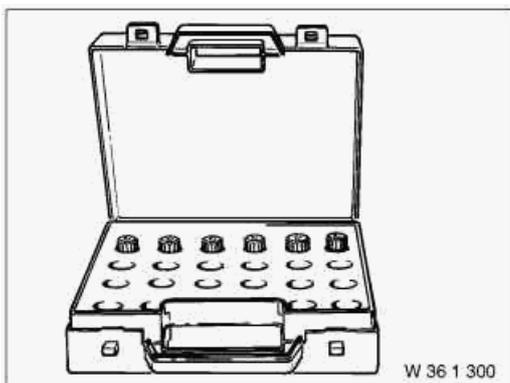
Storage location

Replaced by

In connection with

SI-Number

0 495 227 (36 1 329) Wheel stud



Common

Used in step 6

Usage (Code 36) With centring bore available separately (see EPC) under 36 13 6 762 341

Included in the tool or work 0 492 518

Storage location

Replaced by

In connection with

SI-Number

0 495 228 (36 1 331) Wheel stud



Common

Used in step 6

Usage (Code 37) With centring bore available separately (see EPC) under 36 13 6 762 342

Included in the tool or work 0 492 518

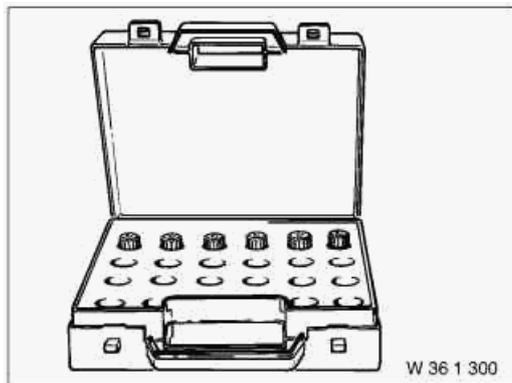
Storage location

Replaced by

In connection with

SI-Number

0 495 229 (36 1 332) Wheel stud



Common

Used in step 6

Usage (Code 38) With centring bore available separately (see EPC) under 36 13 6 762 343

Included in the tool or work 0 492 518

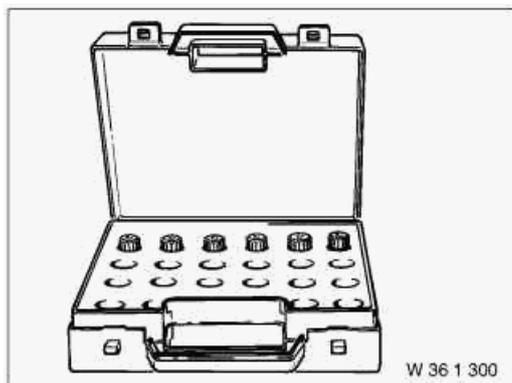
Storage location

Replaced by

In connection with

SI-Number

0 495 230 (36 1 333) Wheel stud



Common

Used in step 6

Usage (Code 40) With centring bore available separately (see EPC) under 36 13 6 762 344

Included in the tool or work 0 492 518

Storage location

Replaced by

In connection with

SI-Number

Links

Operating materials

Used in step

[2.0 Grease for wheel centring](#)

10

64 00 ... Information on using cleaning agent/paints (personal protection equipment)



Warning!

Use of cleaning agents/paints not compliant with instructions can cause serious injuries or burns!

Handling cleaning agents/paints can trigger allergic skin and respiratory reactions!



Important!

Observe following instructions:

- Store cleaning agents/paints only in a secure cabinet.
- Keep cleaning agents/paints away from naked flames and other sources of ignition.
- Protect cleaning agents/paints from high temperatures and direct sunlight.
- Always keep an eye douche on hand, change the water regularly (once a month).



Important!

Observe following instructions before use:

- Manufacturer's instructions (on container/packaging)
- Hazard warnings (on container/packaging)
- Manufacturer's instructions on package insert
- Material safety data sheet of manufacturer
- Product information in EPC
- National market regulations



Important!

Observe following instructions during use:

- Do not eat, drink or smoke while working with these products.
- Avoid direct contact with skin and eyes.
- Wear personal protective clothing/equipment.
- Ensure that all enclosed areas are well ventilated or extract fumes directly.
- Immediately change working clothes soiled with cleaning agent/paint.
- After finishing work, wash your hands and apply protective skin cream.



Important!

Follow hazard warnings and wear personal protection equipment!



First Aid:

- If product comes in contact with eyes, immediately flush with running water for about 10 - 15 minutes. Seek the advice of eye specialist.
- In the event of skin contact and where applicable an allergic skin reaction, clean the affected areas immediately with soap and water and then apply silicone-free skin cream. Seek advice of physician.
- If an adhesive product is swallowed, rinse mouth/parts of mouth thoroughly with running water. Drink 1-2 glasses of water. Do not induce vomiting. Consult a doctor.
- After inhaling vapours ensure ample supply of fresh air. Keep calm, keep respiratory tracks clear and call doctor.



Recycling:

Dispose of cleaning agents/paints in a professional manner!
Observe national/country-specific disposal regulations.