

61 71 063 Removing and installing the washer fluid reservoir for the window washer system

Overview of Activities

Additional Information

Preliminary Work

- 1 Remove the top right cover in the engine compartment
- 2 Remove the cover of the rear right engine compartment
- 3 Remove the lid for the washer fluid reservoir
- 4 Removing the seal fixture for the bonnet
- 5 Remove front right wheel
- 6 Remove the rear section of the front wheel arch cover front
- 7 Remove the trim from the side panel
- 8 Remove the air duct on the inner side panel



Main Work

- 9 Remove washer fluid reservoir
- 10 Installing washer fluid reservoir

Postprocesses

- 11 Install the air duct on the inner side panel
- 12 Install the trim on the side panel
- 13 Install the rear section of the front wheel arch cover
- 14 Installing seal fixture for bonnet
- 15 Install the lid for the washer fluid reservoir
- 16 Install the rear right engine compartment cover
- 17 Install the cover in the engine compartment on the top right
- 18 Installing the front right wheel
- 19 Resetting the Tyre Pressure Monitor

General information

WARNING

Vehicle may slip off the vehicle lift if the vehicle lift is handled incorrectly.

Danger! Life-threatening injuries!

- Observe safety information on raising the vehicle using a vehicle lift.
- For additional information see: 00 ... Raise the vehicle using a vehicle lift.

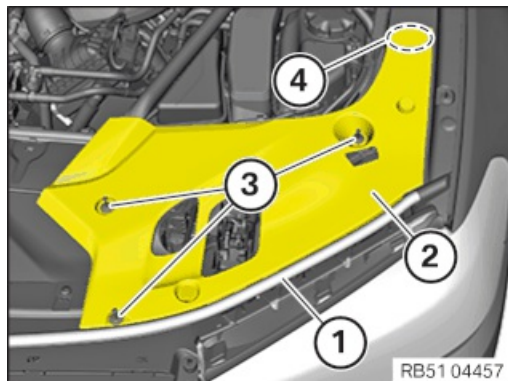
PRELIMINARY WORK

1-Remove the top right cover in the engine compartment

NOTICE

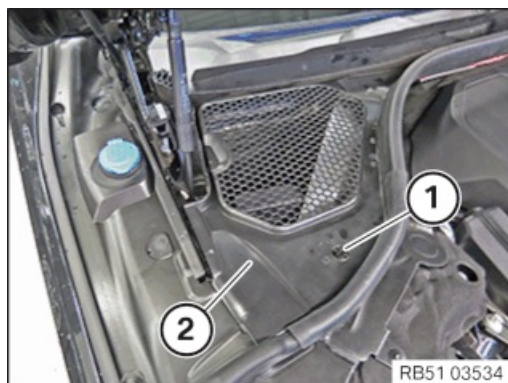
Description is for left component only. Procedure on the right side is identical.

► Remove the cover in the engine compartment on top



- Detach the gasket (1) in the area of the cover (2).
- Loosen the expanding rivet (3).
- Guide out and remove the cover (2) in the area (4).

2-Remove the cover of the rear right engine compartment



- Loosen the lock (1).
- Remove the cover (2).

► Covering the vehicle battery

⚠ WARNING

Unprotected battery terminals.

Risk of shorting! Risk of fire!

- Cover the battery.

NOTICE

The following work step(s) is / are to be carried out if the specified component(s) is/are fitted.

- Cover the battery with the special tool **2 452 007** as shown.

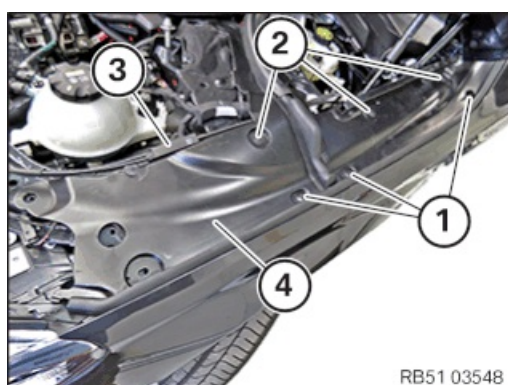


3-Remove the lid for the washer fluid reservoir



- Lever out the lid (1) toward the top together with the lid frame (2).

4-Removing the seal fixture for the bonnet



NOTICE

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

- Loosen the expanding rivet (1).
- Unclip clips (2).
- **Only on right side:** Unclip cable (3).
- Feed out the fixture (4) of the bonnet seal.

5-Remove front right wheel

► Removing the wheel

[Additional information is available.](#)



i TECHNICAL INFORMATION

A wheel lift is recommended for easier wheel removal and installation without exertion (see Retailer Equipment Catalogue).

- **In vehicles with carbon ceramic brake: The wheel lift must be used to remove the wheel.**

This process is intended to prevent damage to the brake disc.



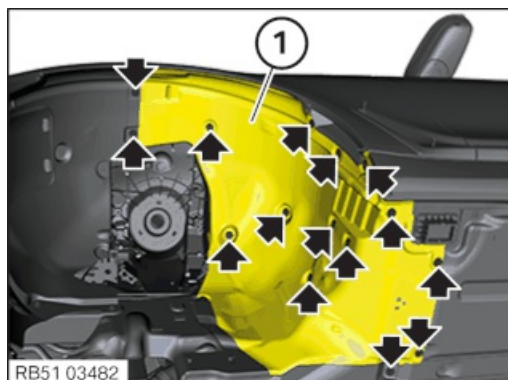
- If several wheels are removed at the same time: Use a piece of chalk to mark on each tyre the axle and side on which the corresponding wheel is fitted.
- Release the wheel bolts (arrows) crosswise and remove the wheel.
- To release and tighten wheel bolts with a security code: Use the correct adapter from the set of special tools **0 492 518 (36 1 300)**.

RB36 00039

6-Remove the rear section of the front wheel arch cover front

NOTICE

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

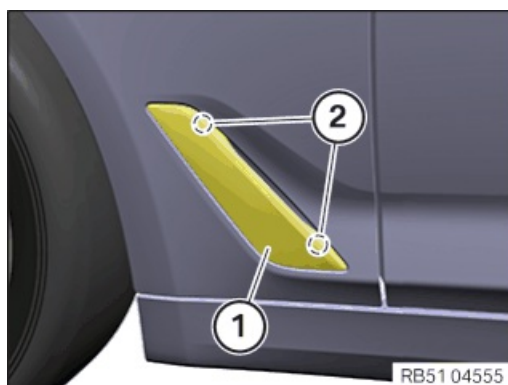


- Remove screws (arrows).
- Guide the wheel arch cover (1) out.

7-Remove the trim from the side panel

NOTICE

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



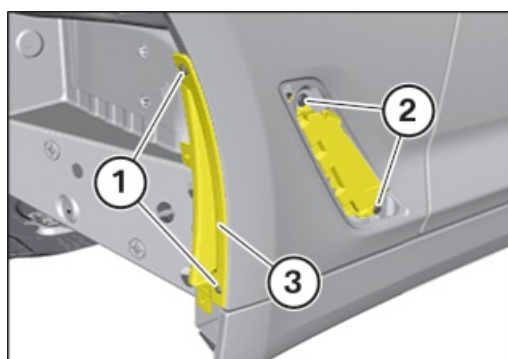
- Lever out the trim (1) at the side panel with the special tool **0 496 569 (00 9 325)** from the clamps (2) and remove it to the rear.

The trim (1) at the side panel cannot be removed without damaging it and must always be renewed.

8-Remove the air duct on the inner side panel

NOTICE

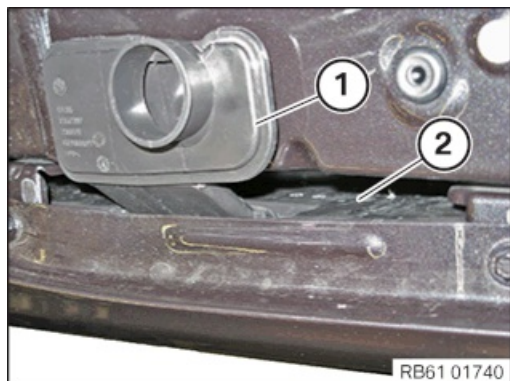
Description is for left component only. Procedure on the right side is identical.



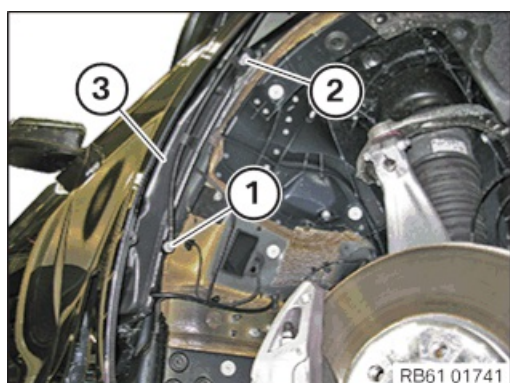
- Loosen the expanding rivet (1).
- Drill out and remove the plastic blind rivet (2).
- Remove the air duct (3).

MAIN WORK

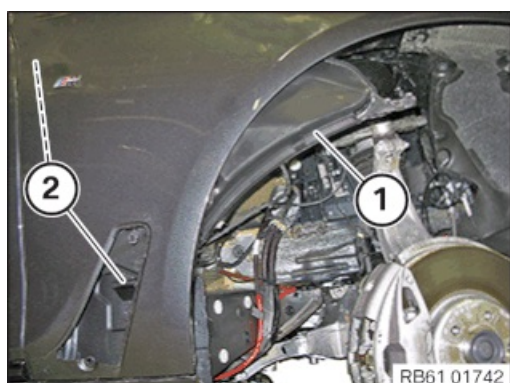
9-Remove washer fluid reservoir



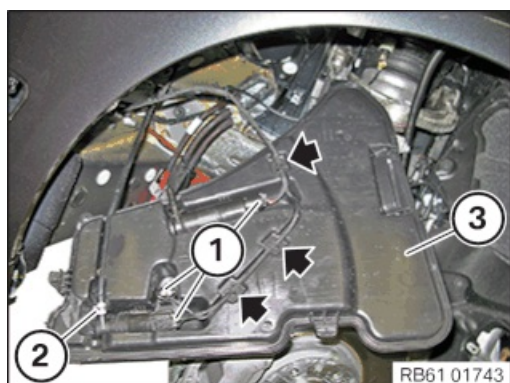
- Pull off filler channel (1) from the washer fluid reservoir (2) to the top.



- Unlock and disconnect the hose pipe (1) of the headlight cleaning system.
- Unclip hose pipe (1) from washer fluid reservoir (3).
- Loosen screw (2).



- Feed out washer fluid reservoir (1) upwards out of the brackets (2).

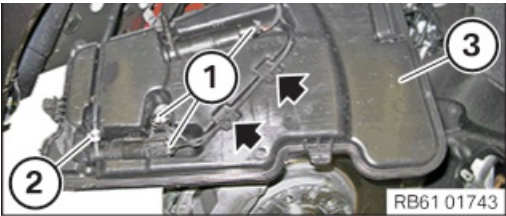


- Unlock and disconnect all connectors (1).
- Unclip the cable from the washer fluid reservoir (3) (arrows).
- Unlock hose pipe (2) and disconnect.

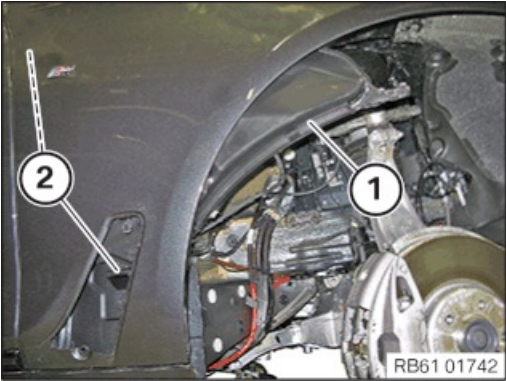
10-Installing washer fluid reservoir



- Connect all connectors (1).
- Clip the cable into the washer fluid reservoir (3) (arrows).
- Connect hose line (2).



- Feed in the washer fluid reservoir (1) to the back in the brackets (2).

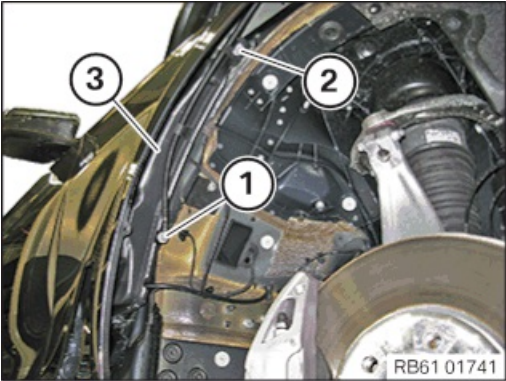


- Tighten down screw (2).

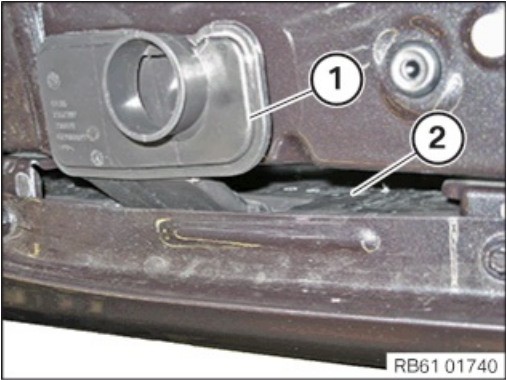
Washer fluid reservoir

| | | |
|--|-------------------|------|
| | Tightening torque | 8 Nm |
|--|-------------------|------|

- Connect the hose pipe (1) of the headlight cleaning system.
- Clip hose pipe (1) into the washer fluid reservoir (3).




- Clip the filler channel (1) downwards into the washer fluid reservoir (2).

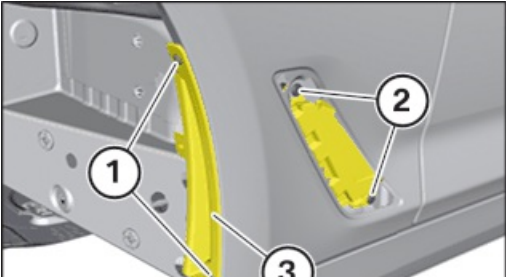


POSTPROCESSES

11–Install the air duct on the inner side panel

 **NOTICE**

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



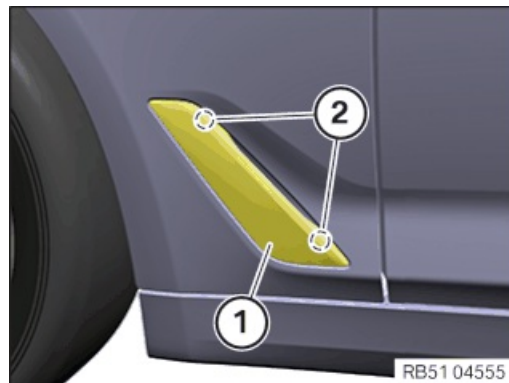
- Install air duct (3).
- Secure the air duct with the expanding rivets (1) and the plastic blind rivets (2).



12–Install the trim on the side panel

NOTICE

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



- Renew the trim (1).

Parts: Trim

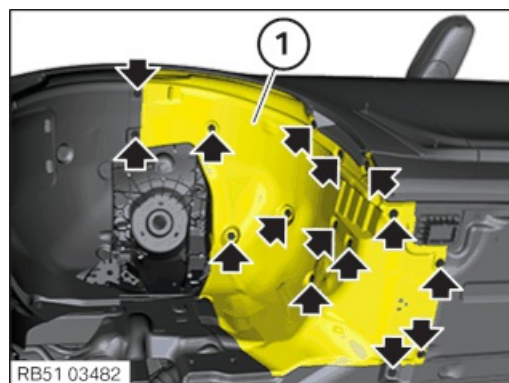
The trim (1) at the side panel cannot be removed without damaging it and must always be renewed.

- Insert the trim (1) at the side panel forward and engage it in the clamps (2).

13–Install the rear section of the front wheel arch cover

NOTICE

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

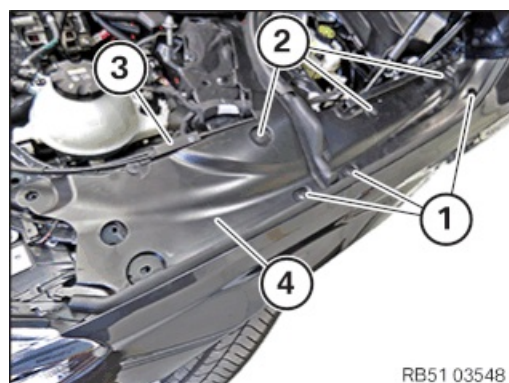


- Guide the wheel arch cover (1) in.
- Tighten screws (arrows).

Wheel arch cover

| | | |
|-------------|--|--------|
| Screw | | 3 Nm |
| Plastic nut | | 2.6 Nm |

14–Installing seal fixture for bonnet

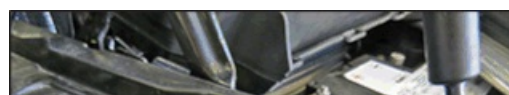


NOTICE

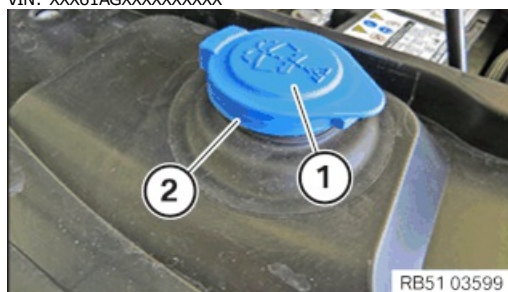
Description is for left component only. Procedure on the right side is identical.

- Feed in the mounting (4) of the bonnet seal.
- Make sure that the mounting for the bonnet seal (4) is correctly fitted on all adjoining components.
- **Only on right side:** Clip in cable (3).
- Clip in clips (2).
- Mount the expanding rivets (1).

15–Install the lid for the washer fluid reservoir



- Mount the lid (1) together with the lid frame (2).



16-Install the rear right engine compartment cover

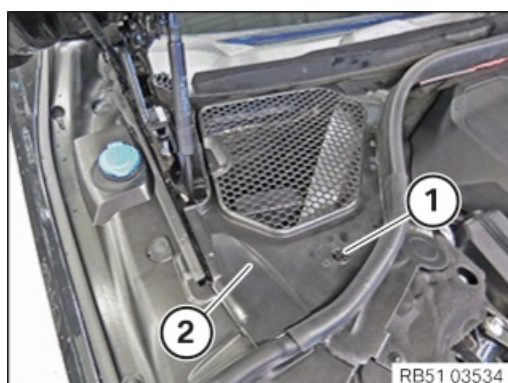
► Remove the battery cover



NOTICE

The following work step(s) is / are to be carried out if the specified component(s) is/are fitted.

- Remove the special tool 2 452 007 from the battery.



- Install the cover (2).
- Lock the lock (1).

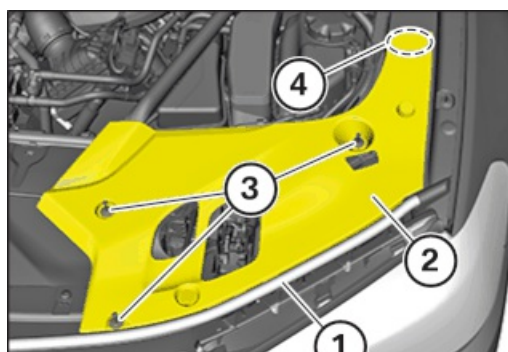
17-Install the cover in the engine compartment on the top right



NOTICE

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

► Install the cover in the engine compartment on top

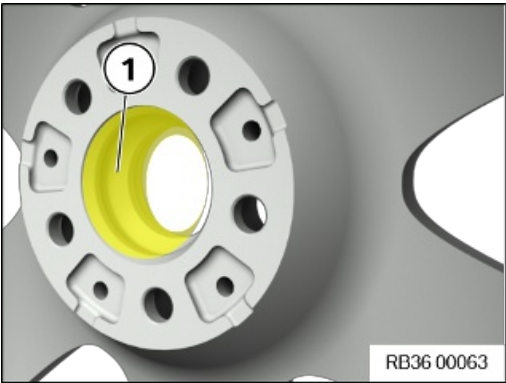
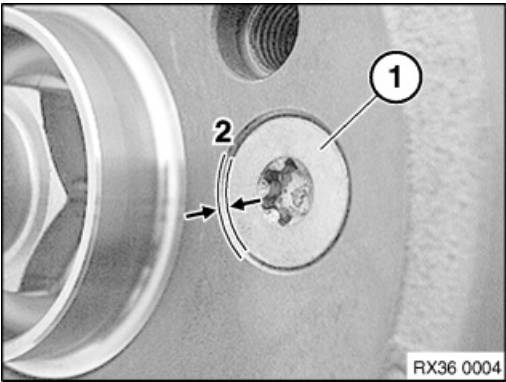
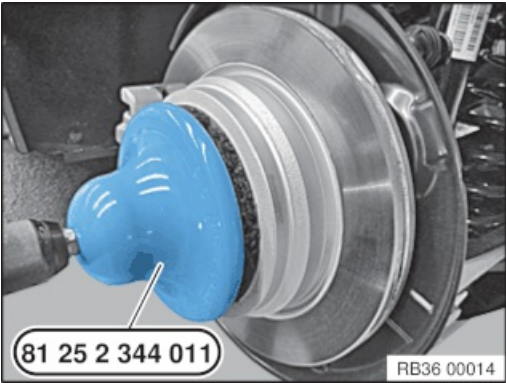


- Insert the cover (2) in the area (4).
- Secure expanding rivet (3).
- Mount seal (1) on cover (2).

18-Installing the front right wheel

► Mounting the wheel

[Additional information is available.](#)



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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 sales and distribution).
- 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 sales and distribution).

- Check that the mounting bolt (1) for the brake disc is securely seated.
The mounting bolt (1) for the brake disc **may not** protrude on the contact surface (2) between the brake disc and the wheel rim.

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

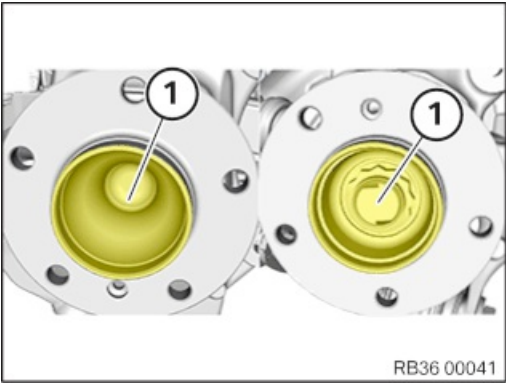
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TECHNICAL INFORMATION

Wheel hubs and wheel centering on the models G80, G82 and G83 **must not** be greased.

- Thinly grease the wheel centring (1) in the wheel rim.

| Expendable materials | | |
|---|----------------|-----------------|
| Brake pad paste | 3 g, Bag | 83 19 2 158 851 |
| * TU = Trade Unit. TU numbers cannot be ordered! For invoicing purposes only. | 100 g, Tube | 83 19 2 158 852 |



i TECHNICAL INFORMATION

Wheel hubs and wheel centering on the models G80, G82 and G83 **must not** be greased.

- Apply a thin layer of grease to the front and rear wheel hubs in area (1) to protect against corrosion.

Expendable materials



| | | |
|---|----------------|-----------------|
| Brake pad paste | 3 g, Bag | 83 19 2 158 851 |
| * TU = Trade Unit. TU numbers cannot be ordered! For invoicing purposes only. | 100 g, Tube | 83 19 2 158 852 |
| | 5 g, TU* | 83 23 0 140 233 |



i TECHNICAL INFORMATION

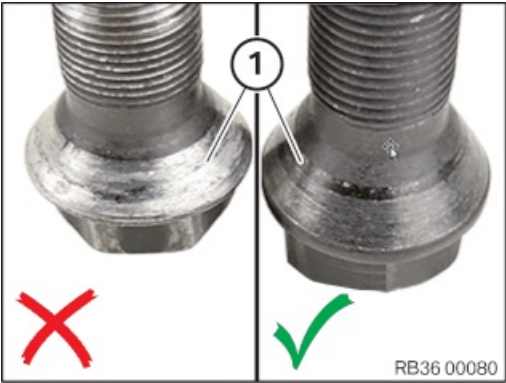
A wheel lift is recommended for easier wheel removal and installation without exertion (see Retailer Equipment Catalogue).

- In vehicles with carbon ceramic brake: The wheel lift must be used to mount the wheel.

This process is intended to prevent damage to the brake disc.

Check

- Check wheel bolts for wear.



Result

» Places (> 30%) of the bearing surfaces (1) of the taper on the screw head show a silver wear.

Measure

- Replace wheel bolts.

Parts: Wheel bolts



i 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 the corroded wheel bolts (arrows).

Parts: Wheel bolts

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

Wheel bolts



| | | | |
|------------|---|-------------------|--------|
| M14 / SW17 | 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 all the wheel bolts in the same order or retighten to the prescribed tightening torque again. | Check | 140 Nm |



19–Resetting the Tyre Pressure Monitor

i TECHNICAL INFORMATION

The Tyre Pressure Monitor checks the tyre inflation pressure in all 4 wheels.
Each tyre incorporates a wheel electronics module, which constantly monitors the tyre pressure.
The system signals when the tyre pressure drops in one or more tyres.
The reset must be carried out in each case immediately after tyre pressure has been corrected, after tyres/wheels have been changed and after repairs to the air spring system.
Please refer to the corresponding motor vehicle's Owner's Handbook for details on the reset procedure.

- Reset the Tyre Pressure Monitor.