Workshop Manual

Rapid NH 2014 ➤
Rapid Spaceback 2014 ➤

Body Work

Edition 10.2018

List of Workshop Manual Repair Groups

Repair Group

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Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.

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50 – Body - front

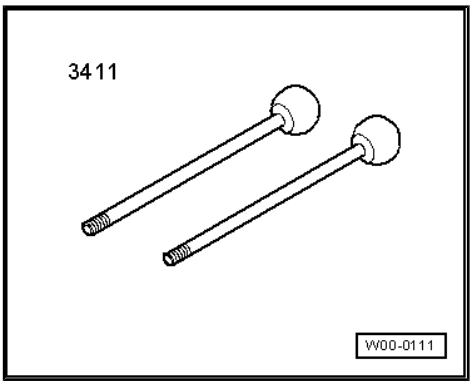
1 Front body

(SRL001304; Edition 10.2018)

1.1 Tools

Special tools and workshop equipment required

- Guide bars - T30092 (3411)-



1.2 Lock carrier with components parts

Summary of components

Note

Depending on the model version, slight differences in the mounting parts are possible.

1 - Lock carrier with components parts

- ❑ Service position ⇒ “1.3 Service position ”, page 2 .
- ❑ Removing and installing ⇒ “1.4 Removing and installing lock carrier with component parts”, page 4 .

2 - Hose clamp

3 - Air guide duct

4 - Screw

- ❑ Tightening torque - 2 Nm.

5 - Screw

- ❑ Tightening torque - 20 Nm.

6 - Screw

- ❑ Tightening torque - 8 Nm.

7 - Lock carrier - top component parts

8 - Air deflector

9 - Screw

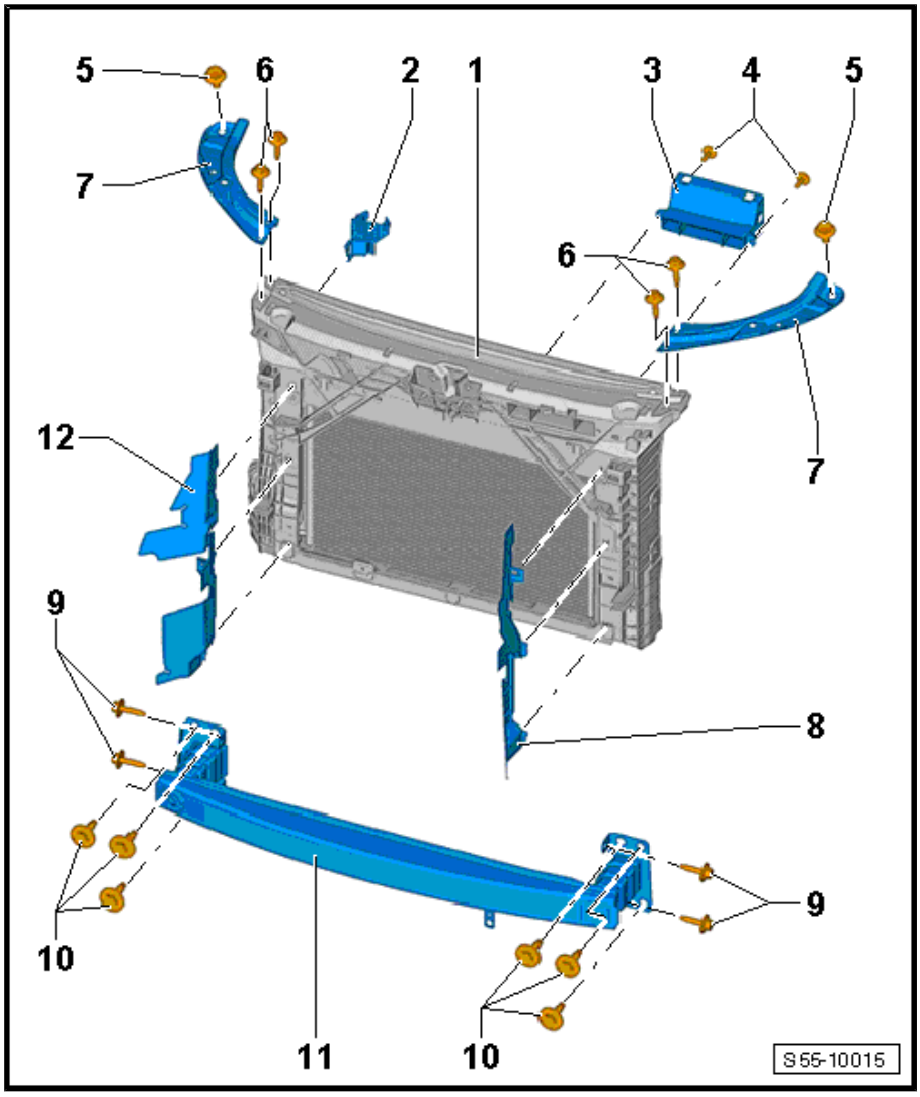
- ❑ Tightening torque - 8 Nm.

10 - Screw

- ❑ Tightening torque - 30 Nm.

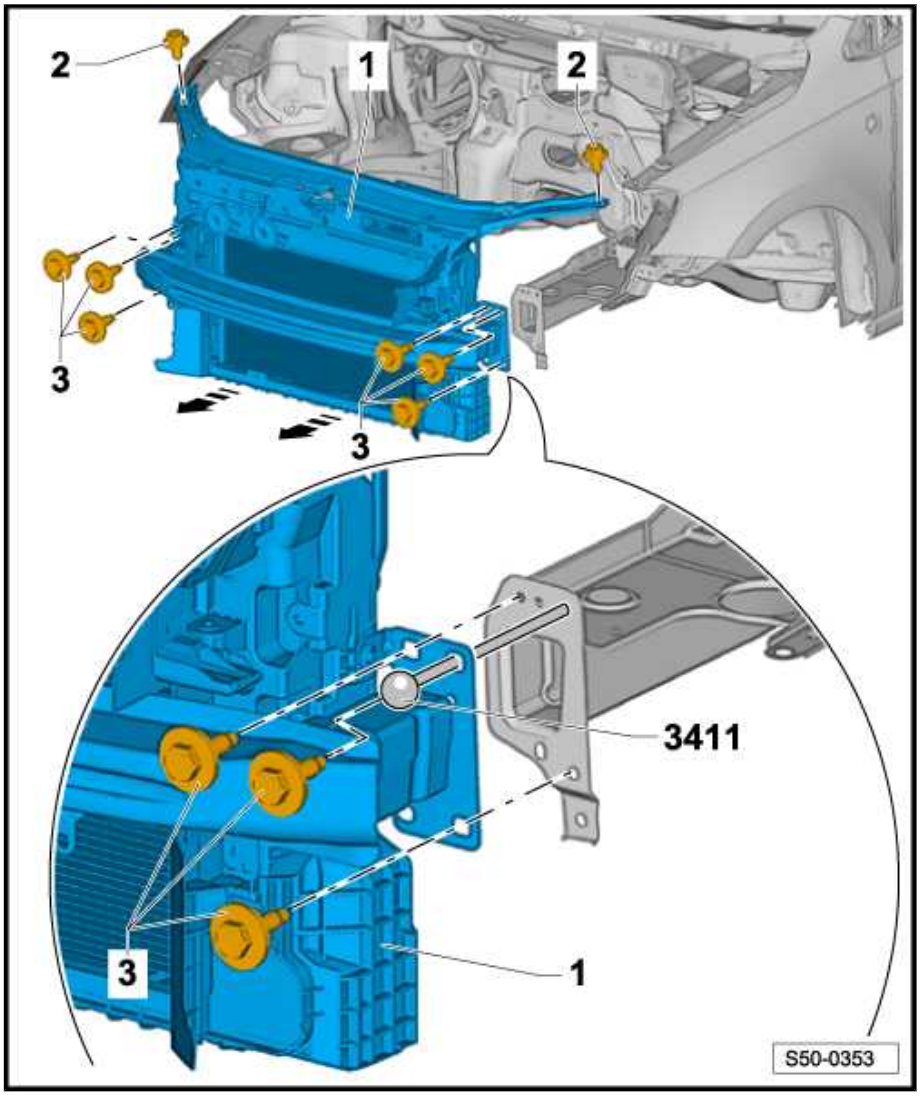
11 - Bumper bracket

12 - Air deflector



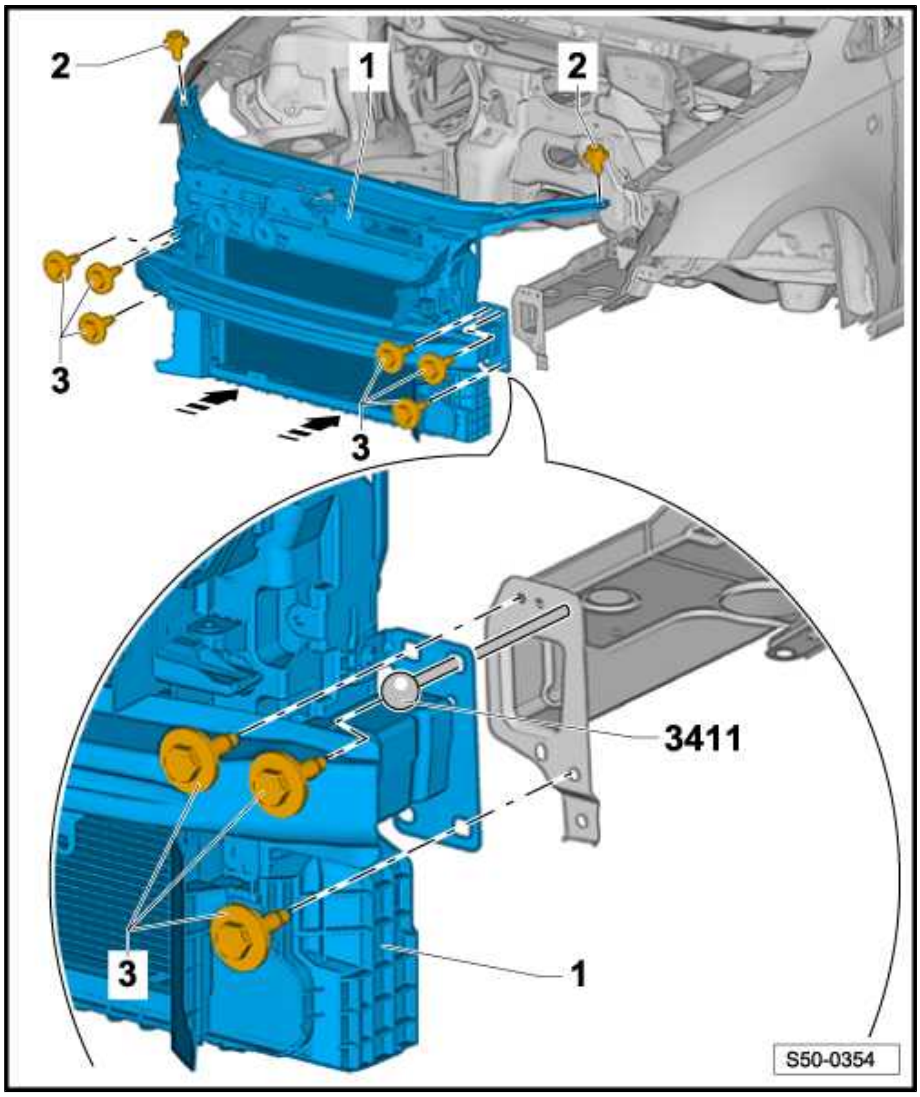
1.3 Service position

Carry out the service position



– Removing front bumper ⇒ “1.1.2 Removing”, page 132 .
– Pull off the control cable from the lock carrier ⇒ “1.7 Separating the Bowden cable”, page 28 .
– Remove the screws -3- at the left and right frame side rails.
– Install the guide bars - T30092 (3411)- on the left and right frame side rails.
– Remove top screws - 2 -.
– The lock carrier -1- can be pulled on the guide bars - T30092 (3411)- by approx. 10 cm forwards -arrows-.

1.3.1 Reinstallation



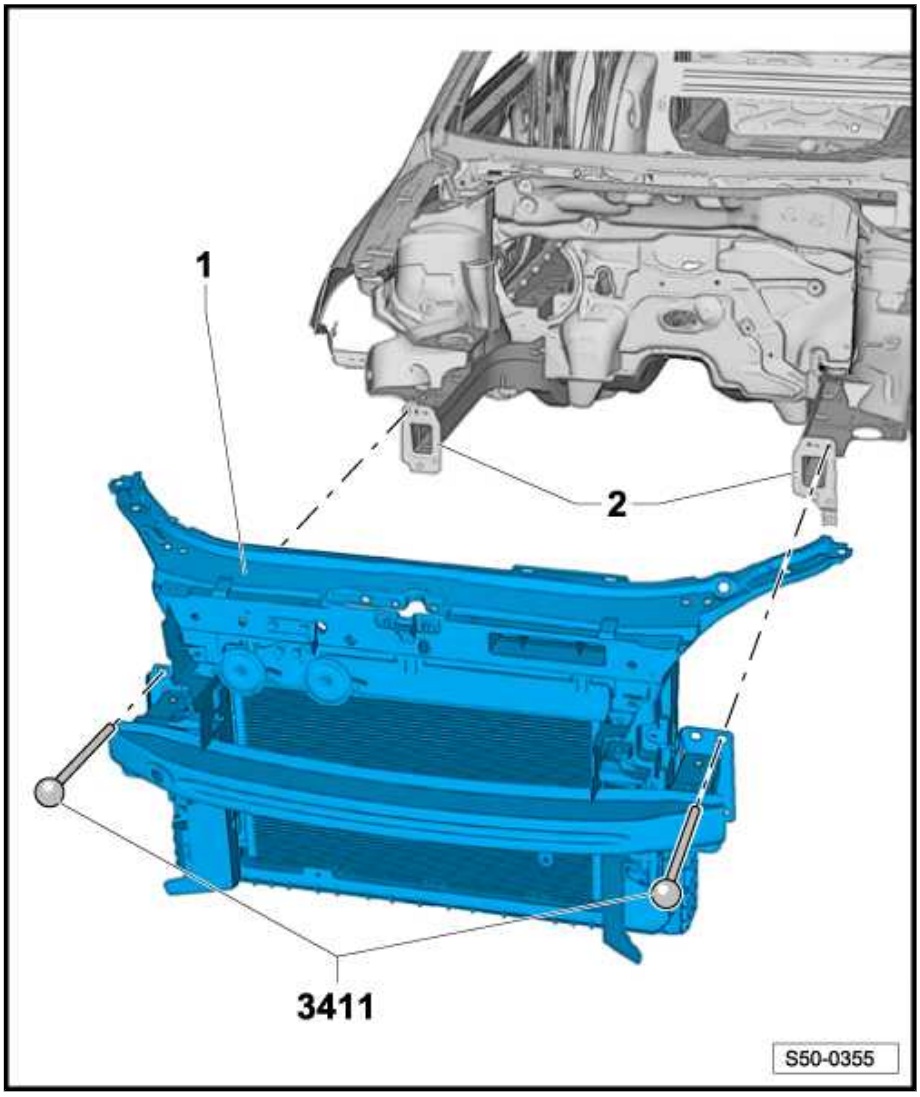
- Install screws -2- and -3-.
- Take the mean of the lock carrier with component parts -1- at the frame side rails and between the wings ⇒ Body Repairs; Rep. gr. 00 ; technical data; body gaps; front body .
- Tightening torque of screws (Pos. 2) is 20 Nm.
- Tightening torque of screws (Pos. 3) is 30 Nm.
- Further installation occurs in reverse order.

Note

Hoses and lines must not be pinched.

1.4 Removing and installing lock carrier with component parts

Removing



– Bring to service position ⇒ “1.3 Service position ”, page 2 .
– Separate electrical plug connections.
– Drain the coolant and separate the coolant line ⇒ Engine cooling; Rep. gr. 19 .
– Separate the lines for the condenser ⇒ Heating and air conditioning system; Rep. gr. 87 .
– Remove the guide bars - T30092 (3411)- at the left and right frame side rails - 2 - with the help of a second mechanic and remove the lock carrier with component parts - 1 -.

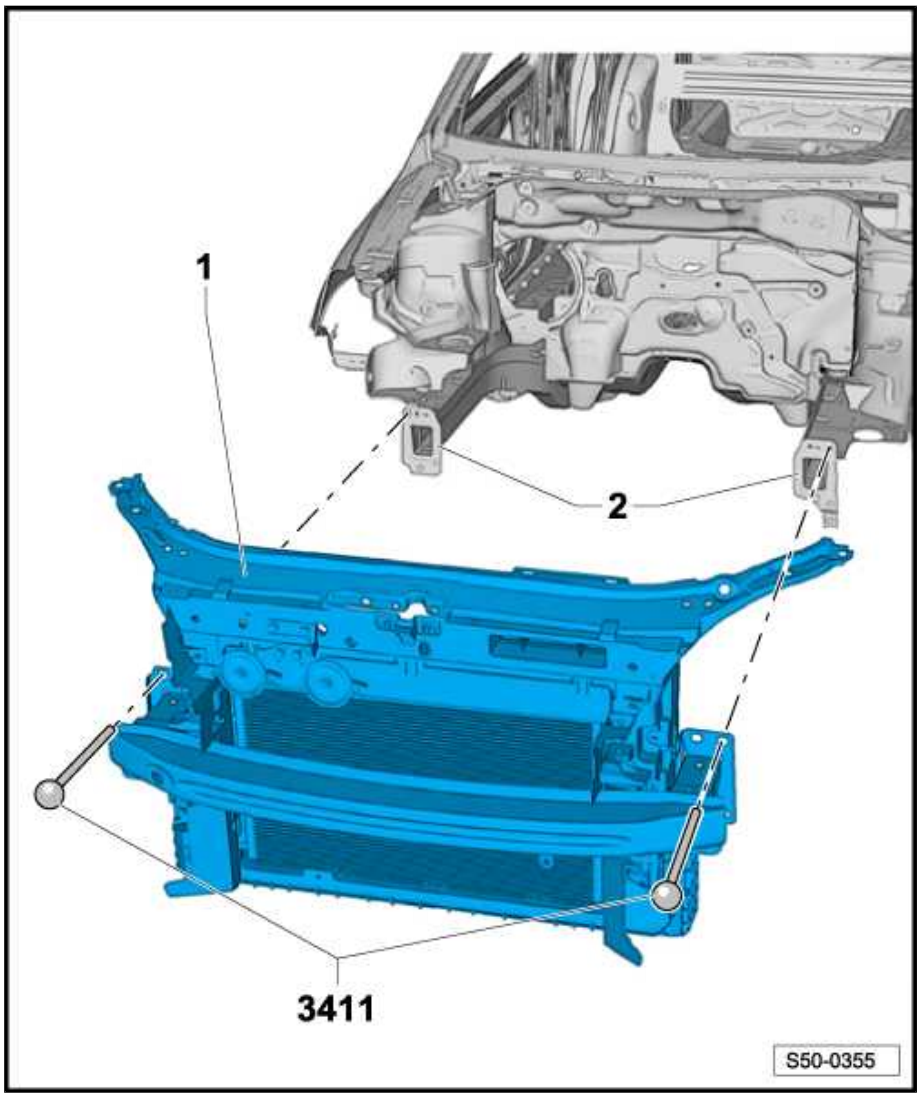
WARNING

If the cables of the air-conditioning system and/or the coolant are separated, the drive unit must no longer be started.

Note

- *The condenser and hydraulic oil cooler must not be tied up to the cables.*
- *The condenser and hydraulic lines must not be kinked.*

Installing



– Position the lock carrier - 1 - on the frame side rails - 2 -.

– Install the left and right guide bars - T30092 (3411)- .

– Resetting service position ⇒ “1.3.1 Reinstallation”, page 4 .

– Further installation occurs in reverse order.

• Make sure that the plug connections and the hose connections are correctly mounted during assembly.

– Take the mean of the lock carrier at the frame side rails and between the wings ⇒ Body Repairs; Rep. gr. 00 ; technical data; body gaps; front body .

1.5 Front wing

1.5.1 Summary of components

1 - Wing

- ❑ Removing ⇒ “1.5.2 Removing front wing”, page 8 .
- ❑ Installing ⇒ “1.5.3 Installing the front wing”, page 10 .

2 - Screw

- ❑ Tightening torque - 4 Nm.

3 - Screw

- ❑ Tightening torque - 8 Nm.

4 - Wing support

- ❑ Removing and installing ⇒ “1.6 Removing and installing the wing support”, page 11 .

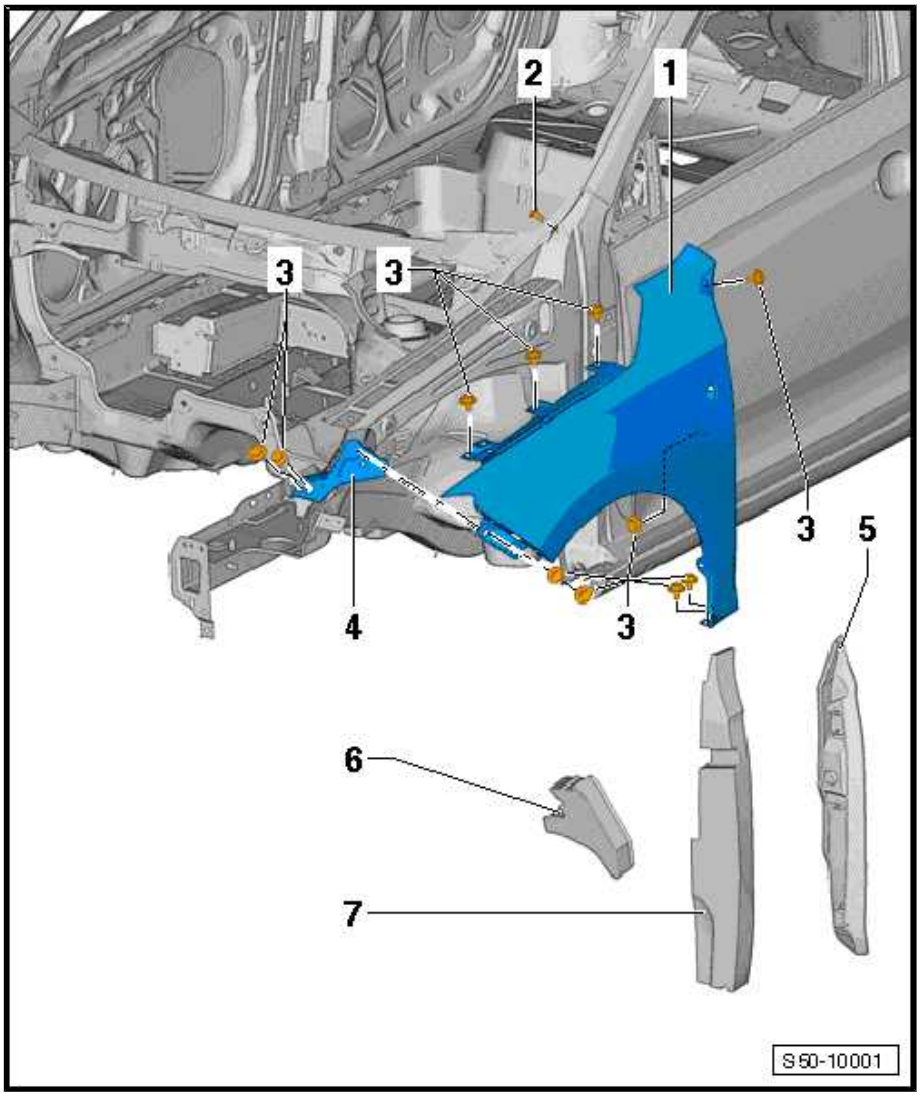
5 - Interior trim

- ❑ Removing and installing ⇒ “1.5.2 Removing front wing”, page 8 .

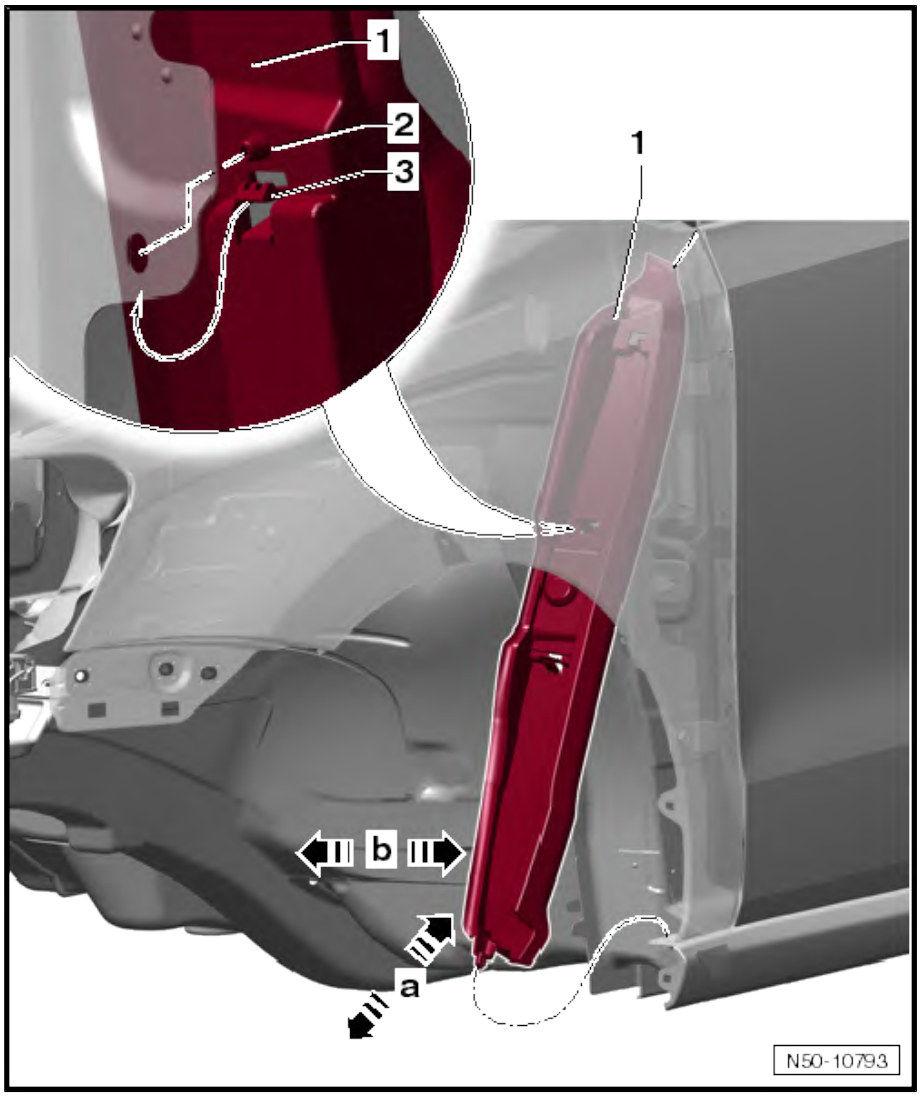
6 - Foam part

- ❑ Inserted between the wing and the front top frame side rail.

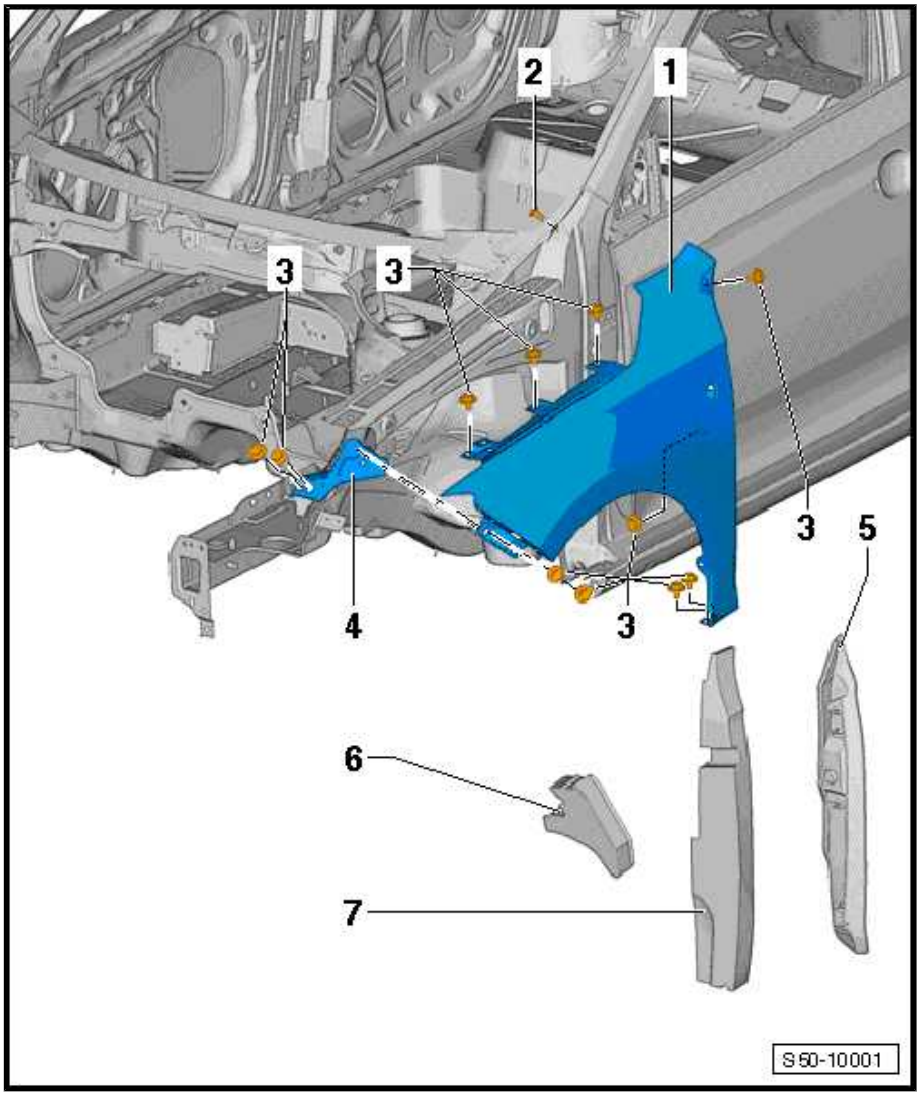
7 - Damping of interior trim



1.5.2 Removing front wing



– Remove front wheelhouse liner
⇒ “1.1 Front wheelhouse liner”, page 158 .
– Remove side turn signal ⇒ Electrical System; Rep. gr. 94 .
– On vehicles fitted with a damping, first of all remove the damping.
– Loosen catch hook -3- and clip -2-.
– Slightly pull the interior trim -1- in the lower area forwards -arrow b- and then guide it out towards the bottom -arrow a-.



Carry out the following tasks

– Removing front bumper ⇒ “1.1.2 Removing”, page 132 .

– Pull out the foam part between the wing and the frame side rail.

– Pull the damping of the interior trim out of the wheelhouse.

– Unscrew screw -2-.

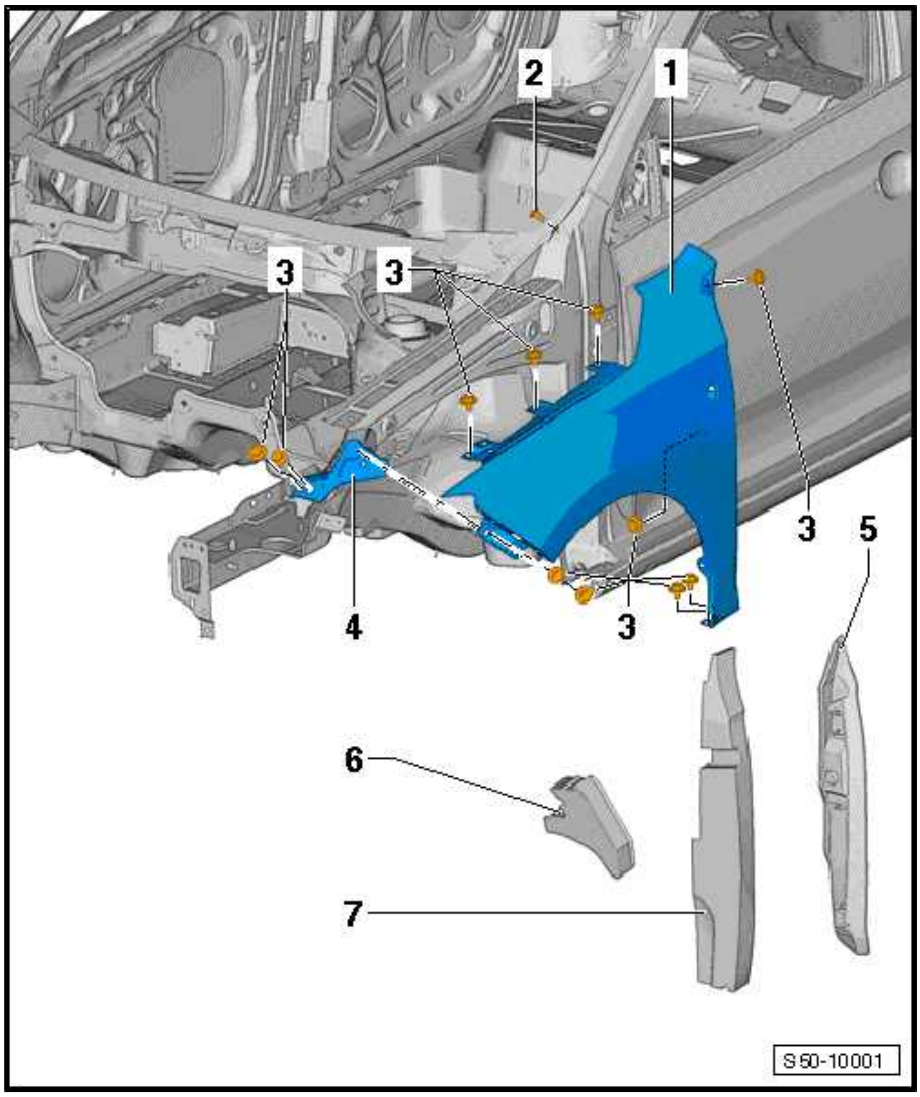
– Unscrew screws -3-.

– For this step the bumper holder -4- must not be removed.

– The rear screw -2- can be reached when the front flap is closed. Cover the front flap with adhesive tape in order to protect it from damage.

– Carefully remove the wing - 1 -.

1.5.3 Installing the front wing



Carry out the following tasks

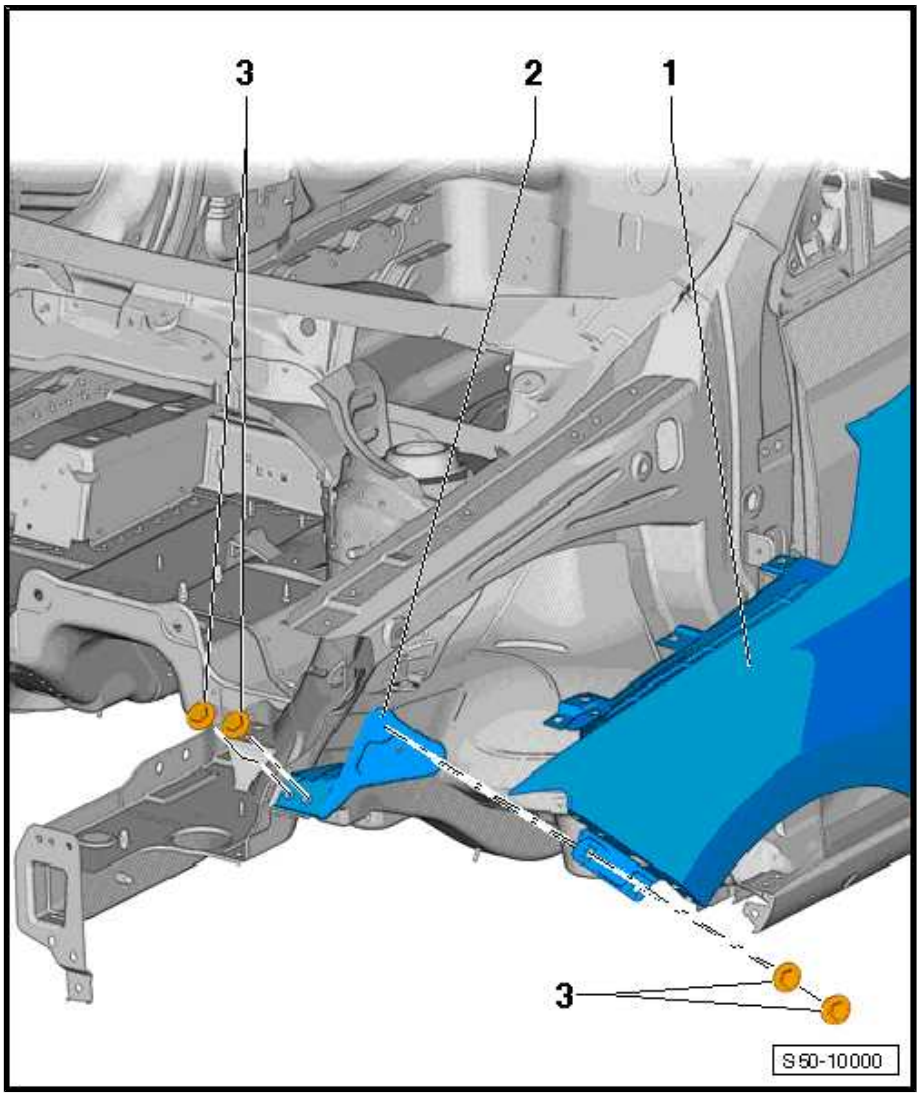
- The installation of the wing - 1 - occurs in the reverse order.
- Tightening torque of screw -2- (4 Nm).
- Tightening torque of screws -3- (8 Nm).
- Observe the parallelism and the correct gap sizes ⇒ Body Repairs; Rep. gr. 00 ; technical data; body gaps; front body .

The wing support must be loosened when the fitting is carried out ⇒ “1.6 Removing and installing the wing support”, page 11 .

Note

Install the wing -1- free of stress.

1.6 Removing and installing the wing support



Removing

– Remove front bumper cover ⇒ “1.1.2 Removing”, page 132 .

– Release screws - 3 - and remove wing support - 2 -.

Installing

– Install wing support - 2 -.

– Adapt wing support with the wing -1- to the front flap and bumper ⇒ Body Repairs; Rep. gr. 00 ; Technical data; body gaps; front body .

– Tightening torque of screws -3- (8 Nm).

1.7 Bulkhead plenum chamber

1.7.1 Summary of components

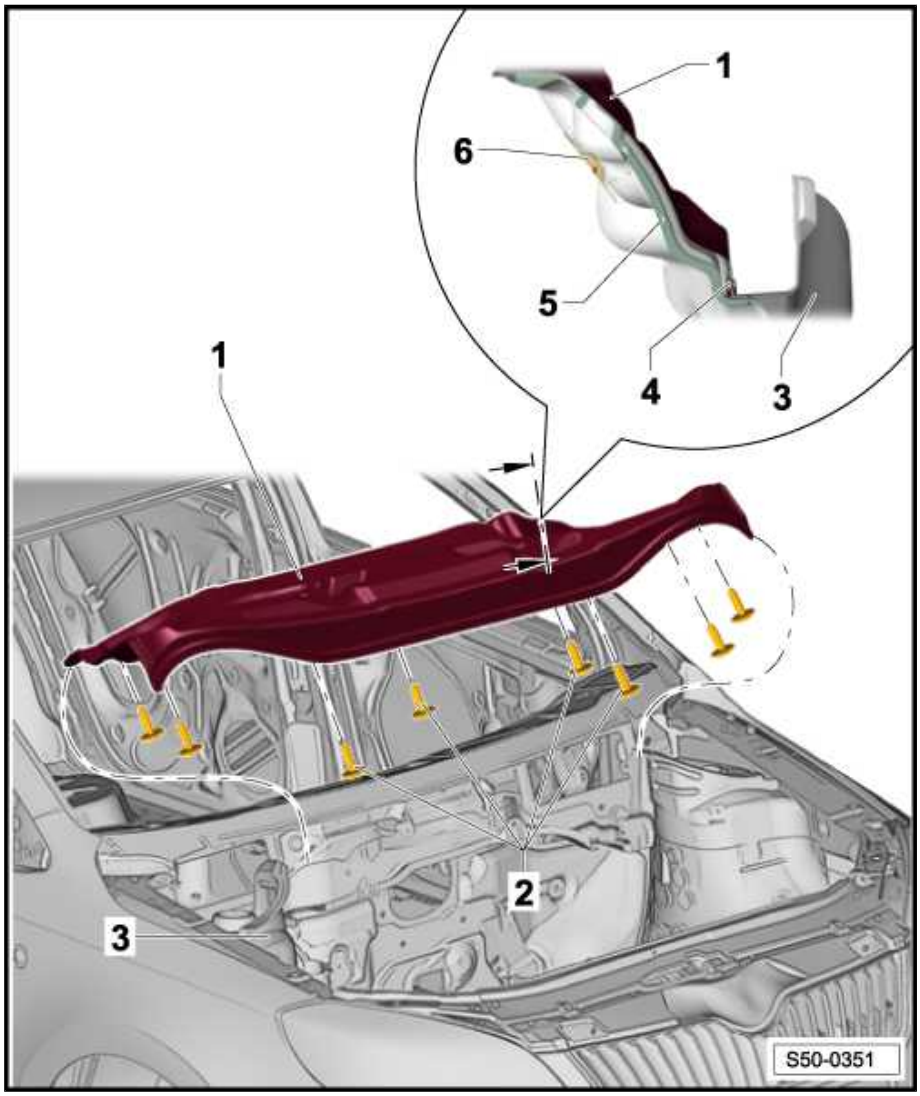
1 - Bulkhead plenum chamber

Removing

- Remove the plenum chamber cover ⇒ “1.8.2 Removing”, page 14 .
- Remove engine air duct (depending on engine).
- Remove engine control unit and engine control module holder.
- Remove noise insulation.
- Unscrew screws -2-.
- Remove the bulkhead plenum chamber -1- upwards and out of the plenum chamber -4-.

Installing

- The installation occurs in reverse order.



2 - Screw

- ❑ Tightening torque - 8 Nm.

3 - Plenum chamber

4 - Seal

Note

Ensure that the seal is correctly seated when installing the bulkhead plenum chamber.

5 - Damping

- ❑ Attached to the bulkhead plenum chamber with clamping plates.

6 - Circlip

- ❑ For attaching the damping on the bulkhead plenum chamber.

1.8 Plenum chamber cover

1.8.1 Summary of components

1 - Additional cover

- ❑ Fitted on the wing web plate.

2 - Plenum chamber cover

- ❑ Removing ⇒ “1.8.2 Removing”, page 14 .
- ❑ Installing ⇒ “1.8.3 Installing”, page 15 .

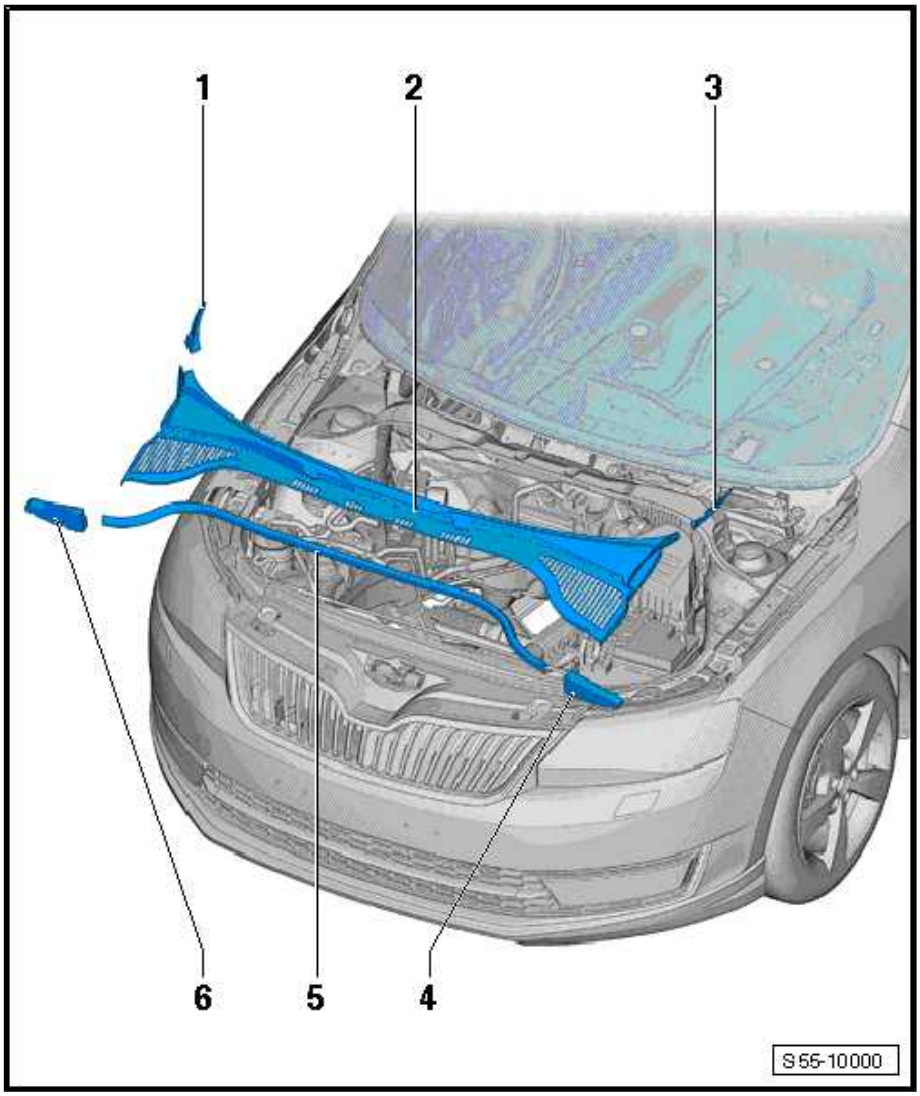
3 - Additional cover

- ❑ Fitted on the wing web plate.

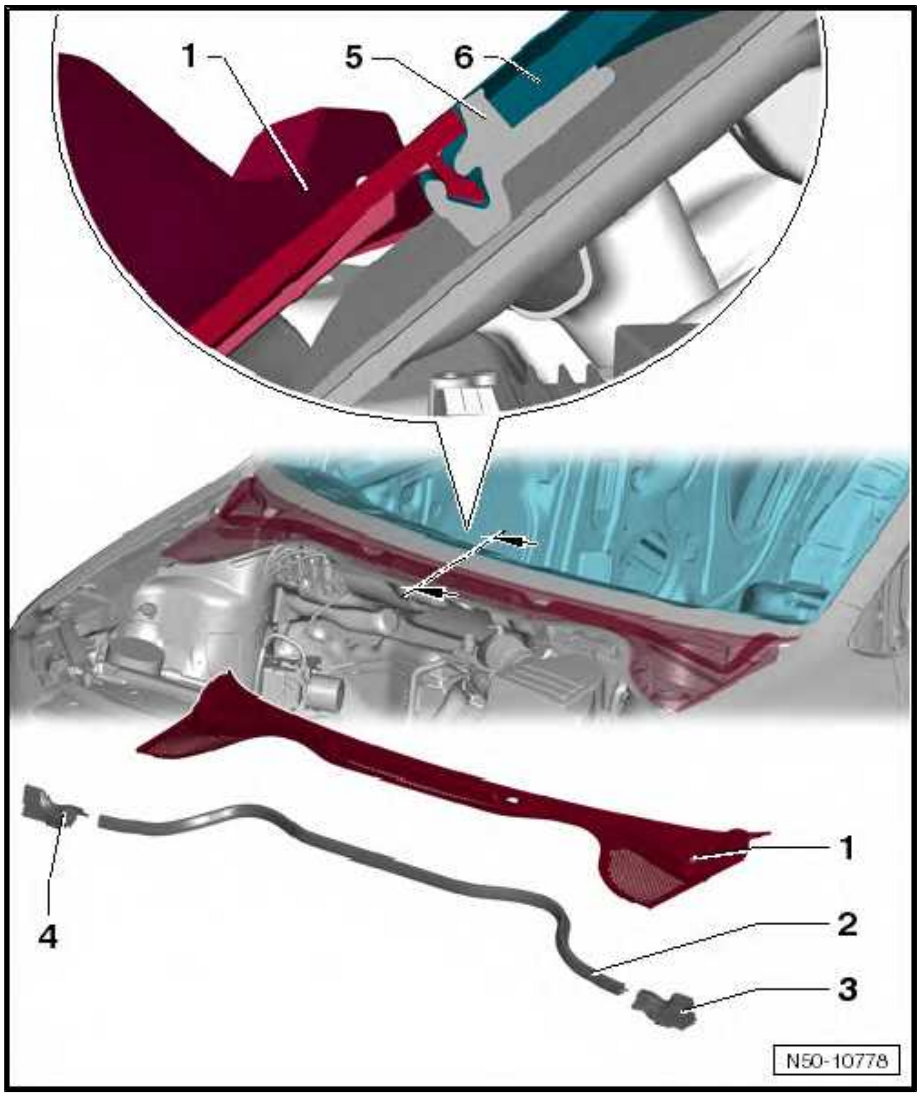
4 - Moulded foam part

5 - Seal

6 - Moulded foam part



1.8.2 Removing



– Remove wiper arms ⇒ Electrical System; Rep. gr. 92 .

– Detach the seal -2- along the entire length of the plenum chamber cover -1-.

Caution

The plenum chamber cover must not be levered off with a lever tool (screwdriver, wedge). The washer is damaged and can subsequently tear.

– Lift up the plenum chamber cover -1- on the edge of the windscreen by hand.

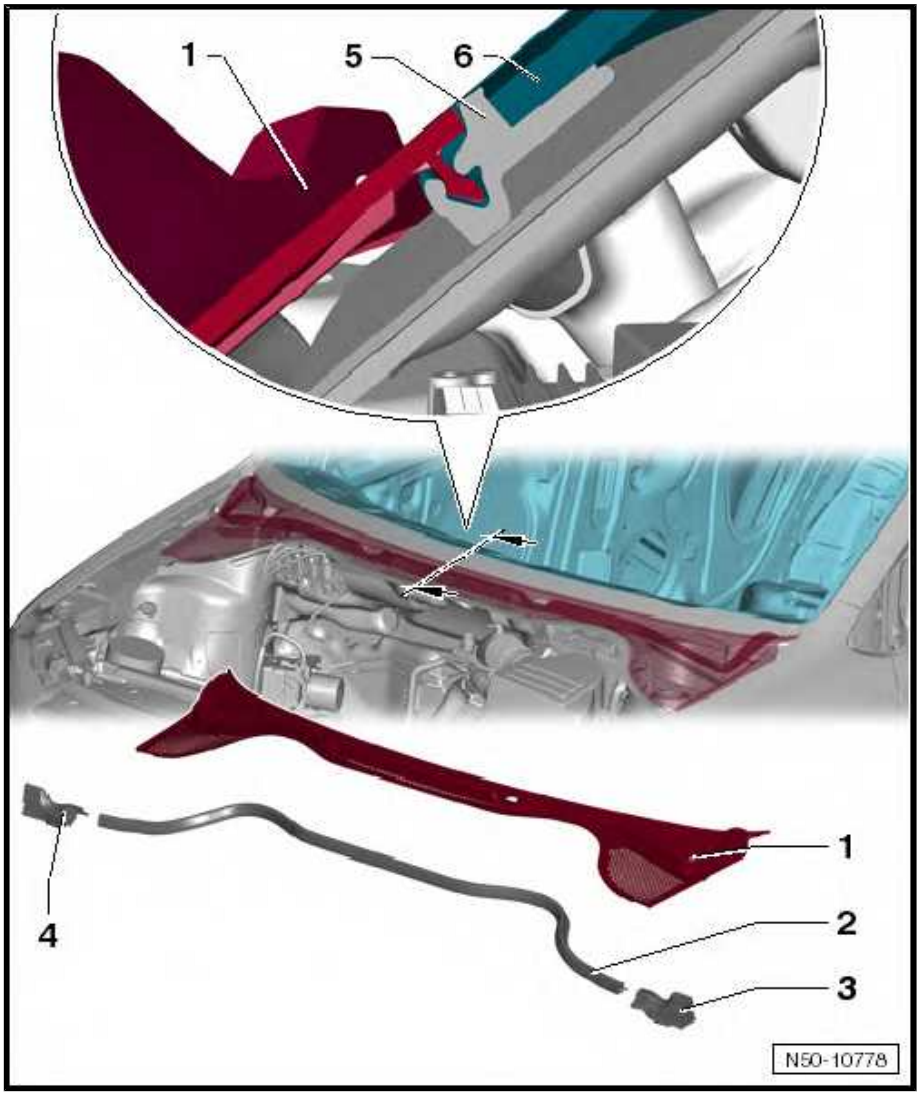
– Pull the plenum chamber cover -1- starting at the edge of the windscreen -6- towards the top and out of the fitting section -5-.

– Remove plenum chamber cover -1- from vehicle.

1.8.3 Installing

Caution

Breaking open the plenum chamber cover -1- in the fitting section -5- of the windscreen -6- can lead to cracks in the windscreen.



Note

- *An inlay is installed in the fitting section on new windscreens. This inlay must be removed before installing the plenum chamber cover.*
- *The plenum chamber cover must be slightly pressed into the fitting section by hand, but on no account knock or press in using a tool.*

Carry out the following tasks

– Wet the fitting section -5- with soapy water so that the plenum chamber covers -1- can be pressed in more easily.

– Place the plenum chamber covers -1- onto the fitting section -5- and clip it, starting from the centre, into the fitting section -5- with slight pressure.
– Fit the seal - 2 - onto the plenum chamber cover - 1 -.
– Installing windscreen wipers ⇒ Electrical System; Rep. gr. 92 .

1.9 Noise insulation

1.9.1 Summary of components

Note

Depending on the model version, slight differences must be taken into consideration when removing and installing.

1 - Noise insulation

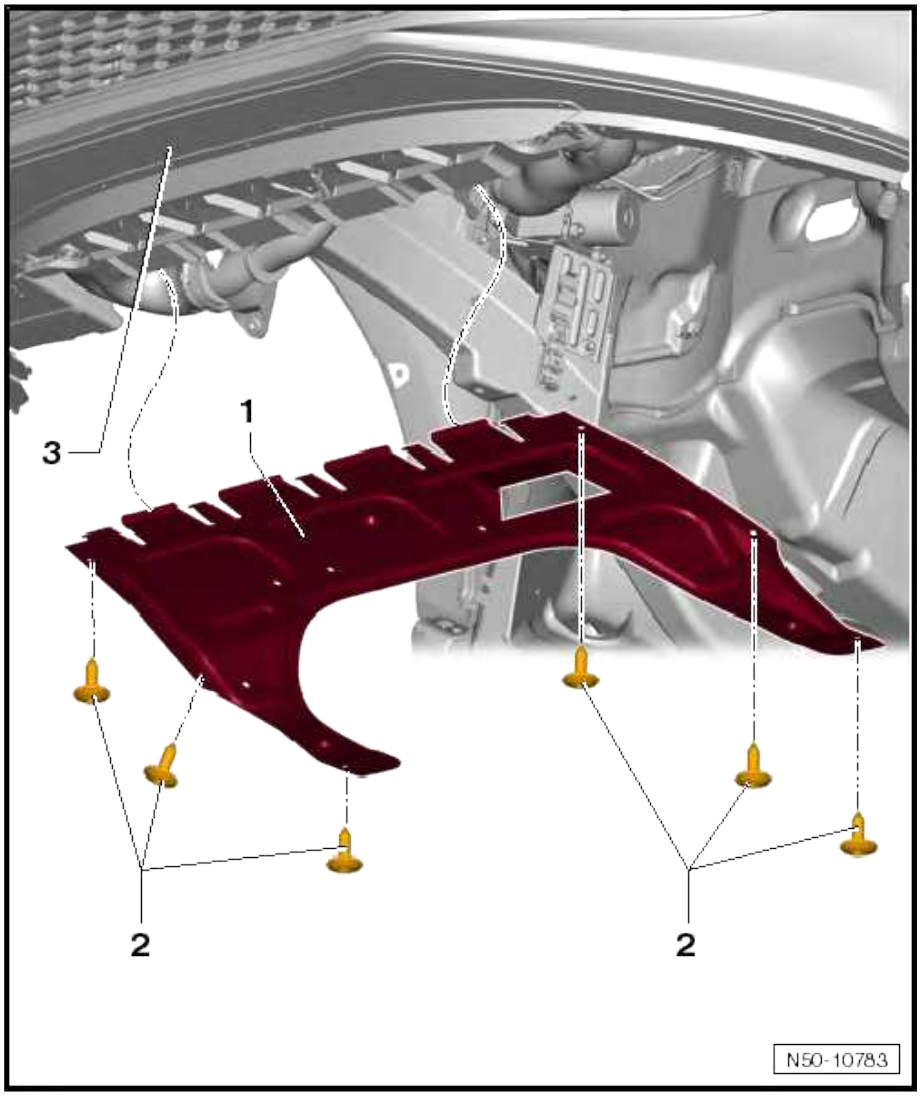
Removing

– Remove the screws -2- and push out the noise insulation towards the rear.

2 - Screw

❑ Tightening torque - 2 Nm.

3 - Shock absorber cover



1.10 V-ribbed belt protection

1.10.1 Summary of components

1 - V-ribbed belt protection

Removing

– Unscrew screws -2-.

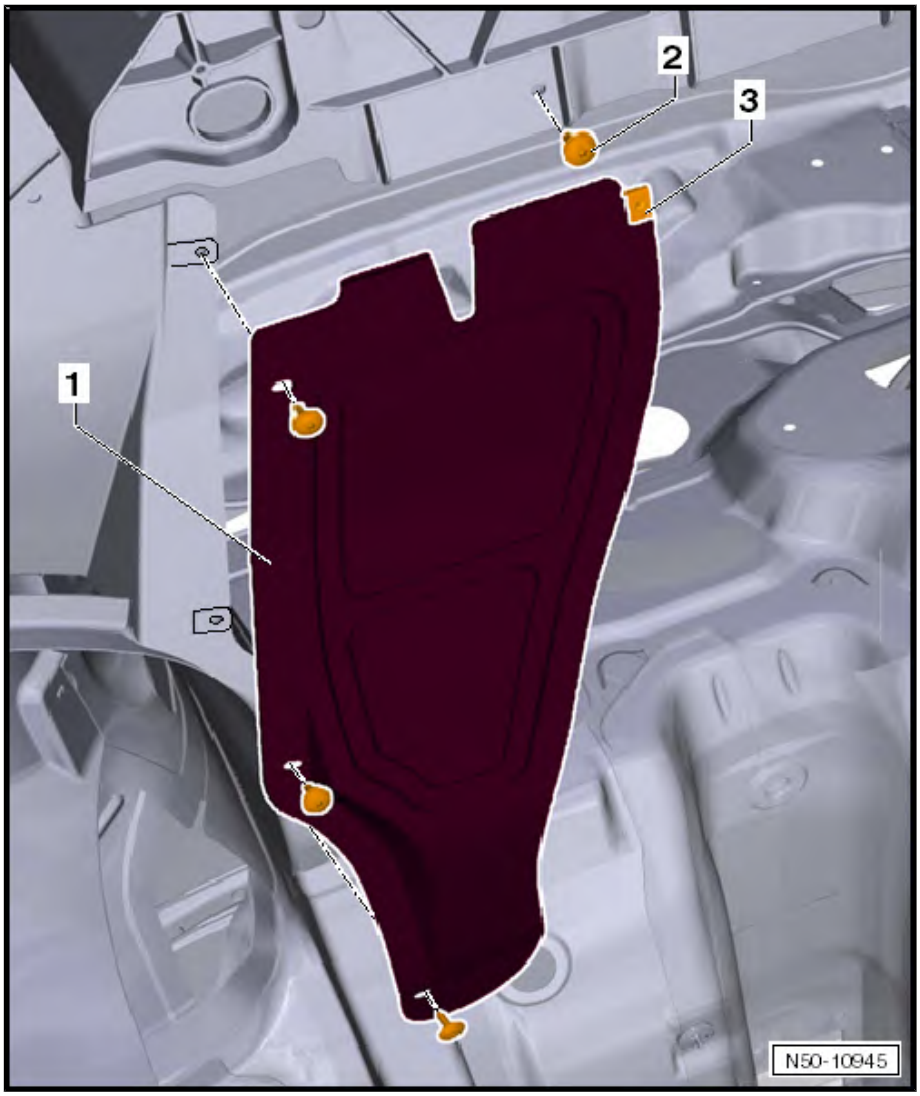
Installing

– The installation occurs in reverse order.

2 - Screw

❑ Tightening torque - 2 Nm.

3 - Snap nut



1.11 Underfloor trim panel

1.11.1 Summary of components

1 - Floor covering

Removing

– Unscrew nuts - 2 -.

Installing

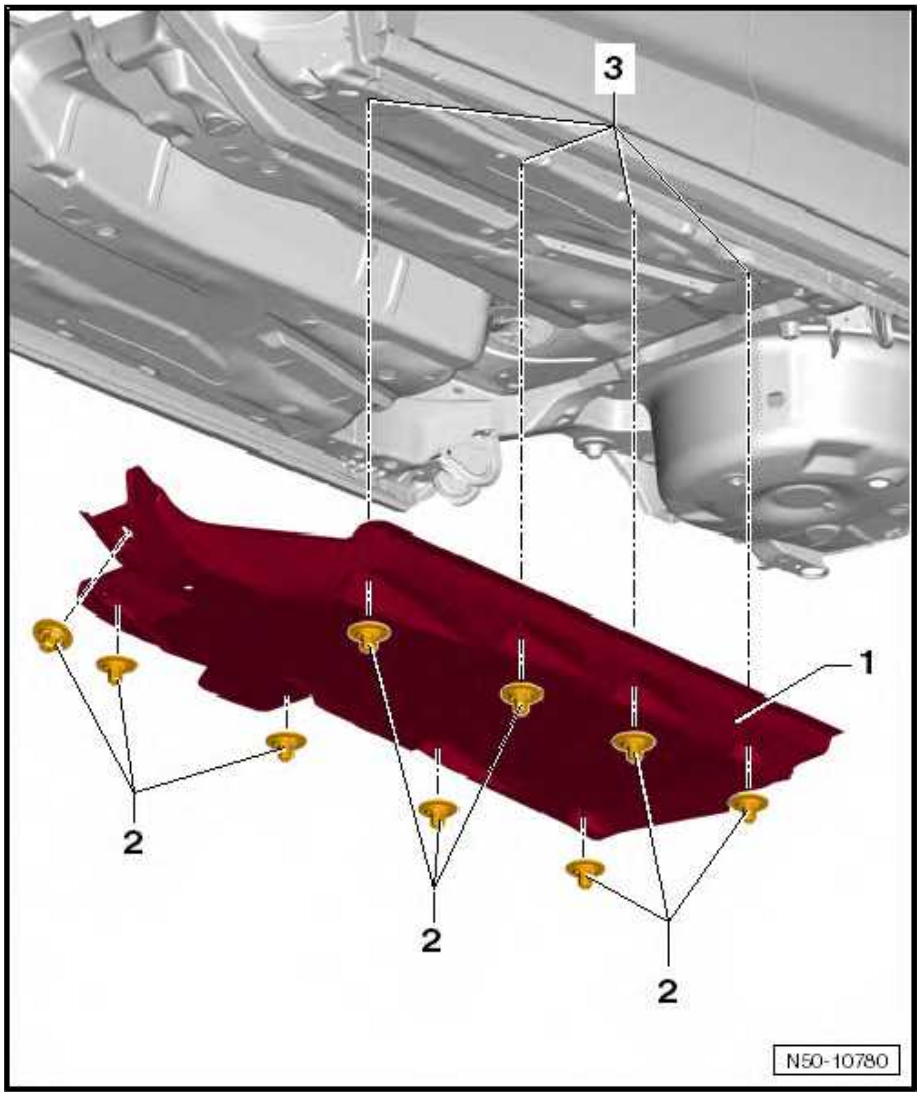
– The installation occurs in reverse order.

2 - Nut

❑ Tightening torque - 2 Nm.

3 - Threaded bores

❑ Welded to the floor panel.



1.12 Tunnel bridge

1.12.1 Summary of components

1 - Tunnel bridge

Removing

– Remove underbody panels ⇒ “1.11 Underfloor trim panel”, page 18 .

– Unscrew nuts - 2 -.

Installing

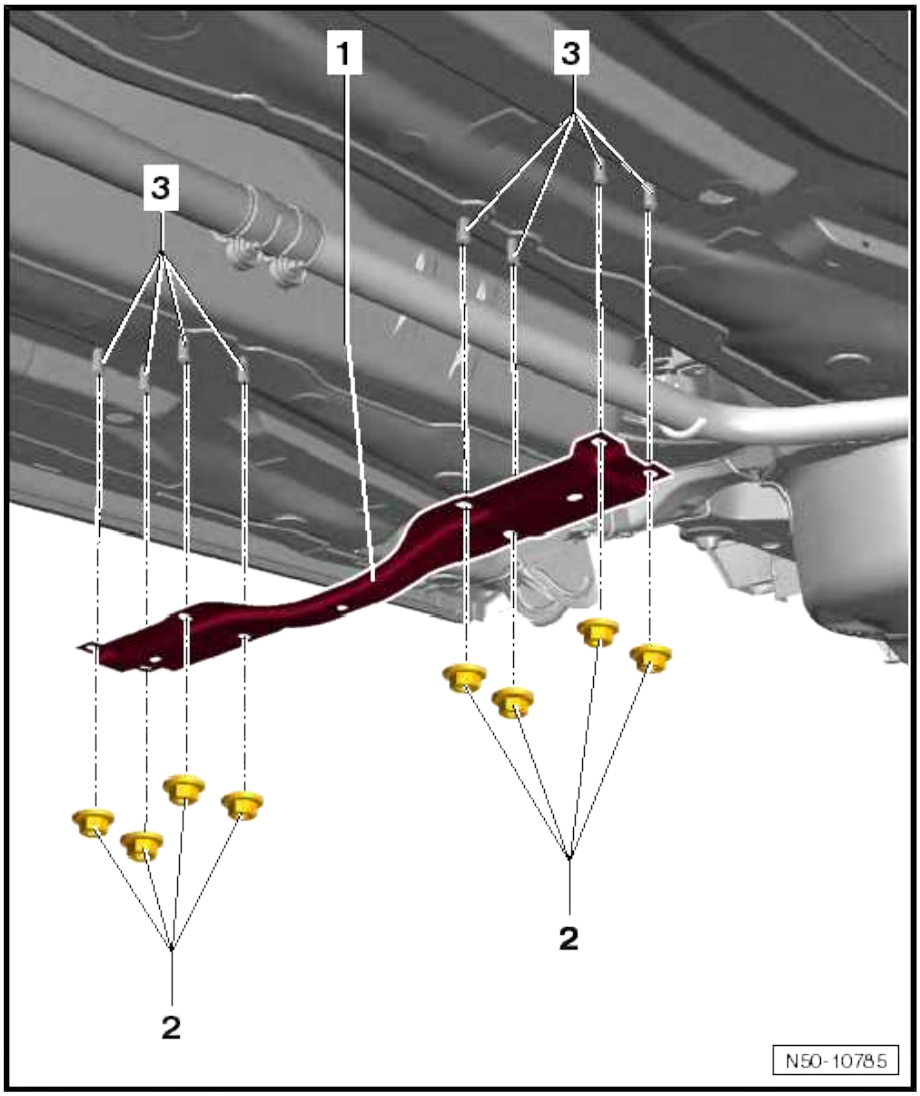
– The installation occurs in reverse order.

2 - Nut

❑ Tightening torque - 20 Nm.

3 - Threaded bores

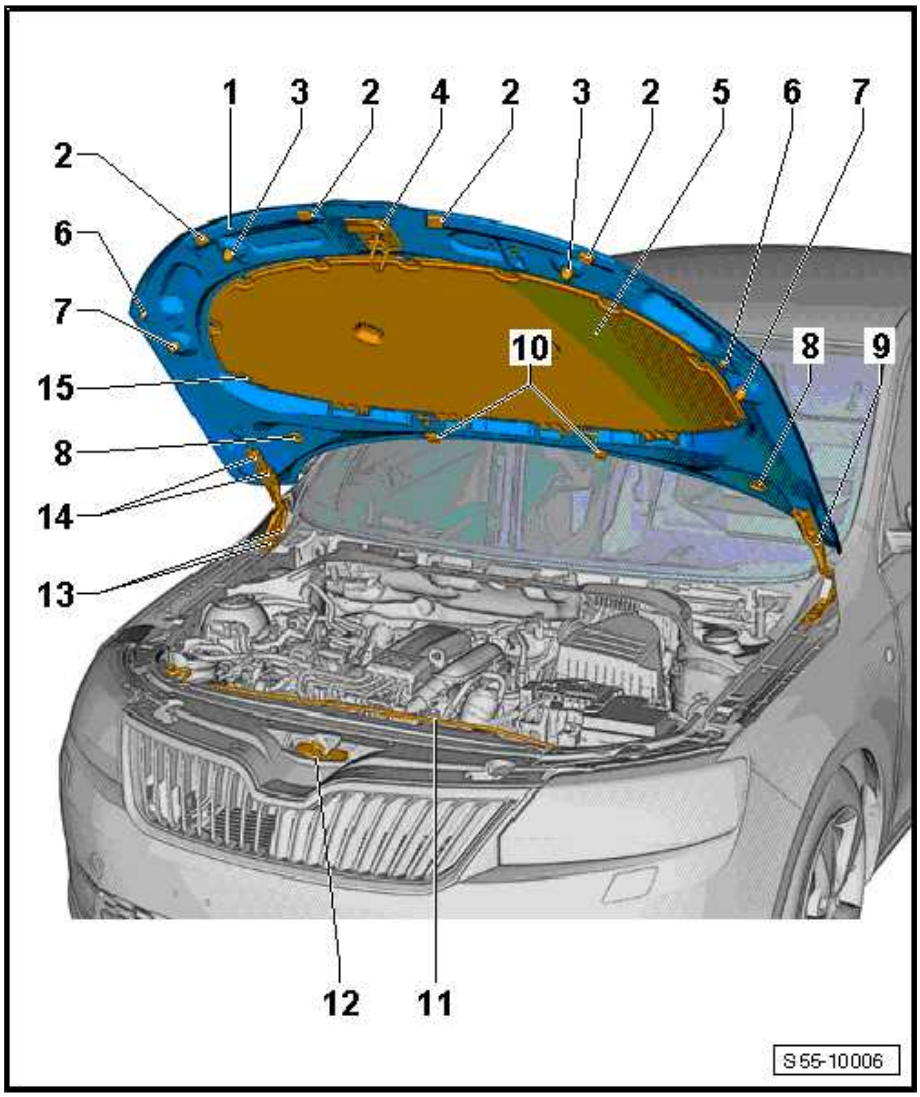
❑ Welded to the floor panel.



55 – Bonnet, rear lid

1 Front flap

1.1 Summary of components



1 - Front flap

- ❑ Removing and installing ⇒ “1.2.1 Removing”, page 21 .
- ❑ Setting ⇒ “1.10 Adjusting the bonnet”, page 32 .

2 - Plug

3 - Adjusting buffer

4 - Locking clamp

5 - Damping

Removing

– Unclip all the clips for the damping in sequence.

– Remove the damping from the bonnet.

Installing

– The installation occurs in reverse order.

6 - Bump stop

7 - Adjusting buffer

8 - Plug

9 - Hinge

- ❑ Removing and installing ⇒ “1.3 Removing and installing the hinge for the front flap”, page 23 .
- ❑ Setting ⇒ “1.10 Adjusting the bonnet”, page 32 .

10 - Spray nozzles

- ❑ Removing and installing ⇒ Electrical System; Rep. gr. 92 .

11 - Support bar

- ❑ Removing and installing ⇒ “1.4 Removing and installing the support bar”, page 24 .

12 - Flap lock bonnet

- ❑ Removing and installing ⇒ “1.6 Removing and installing front flap lock ”, page 25 .

13 - Screw

- ❑ Tightening torque - 20 Nm.

14 - Nut

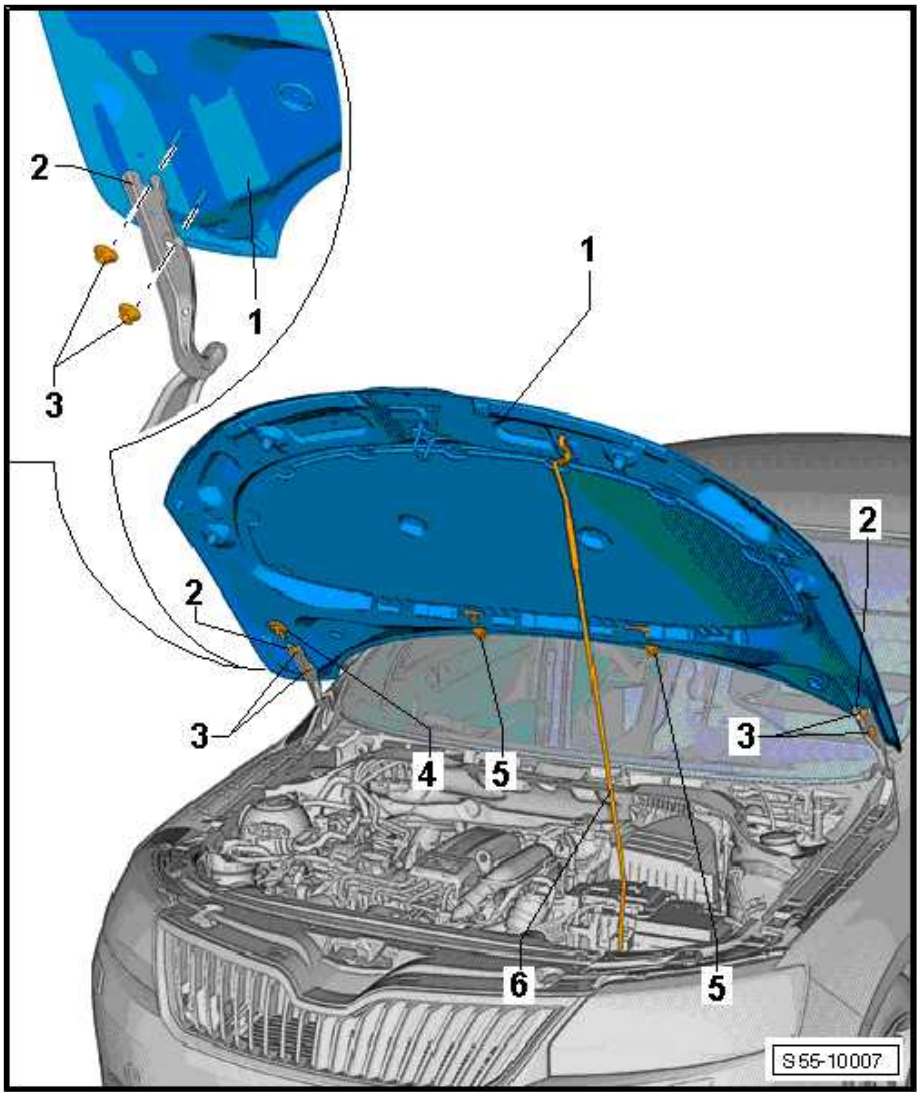
- ❑ Tightening torque - 20 Nm.

Volkswagen Technical Site: http://vwts.ru http://vwts.info

15 - Retaining clip

1.2 Removing and installing the bonnet

1.2.1 Removing

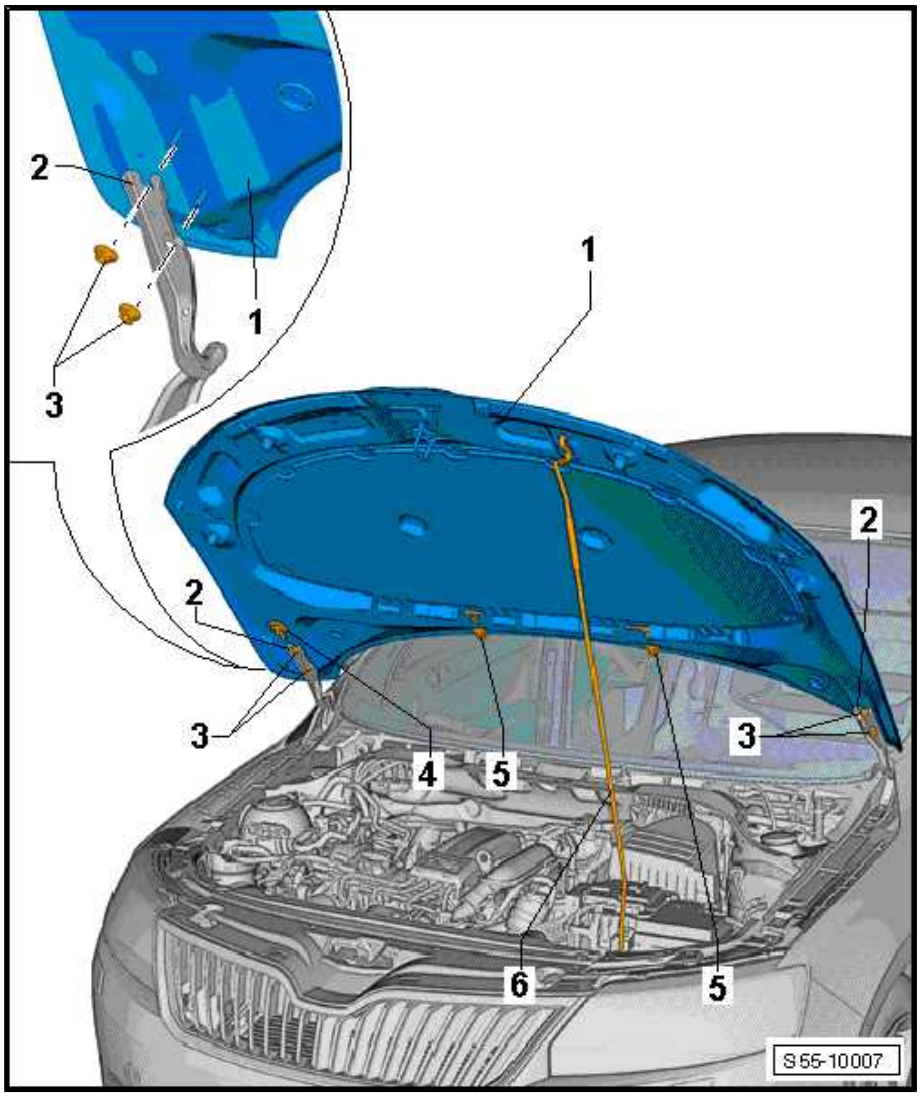


– Remove spray nozzles -5- ⇒ Electrical System; Rep. gr. 92 .
– Unclip the cable -4- from the front flap -1-.
– Pull the cable -4- out of the opening of the front flap -1-.
– Slacken the nuts -3- on the left and right at the hinge -2- (do not unscrew).

Carry out further removal only with the assistance of a second mechanic.

– Remove support bar -6- from the front flap.
– Only now unscrew the nuts -3- and lift the front flap -1- out of the hinges -2-.

1.2.2 Installing



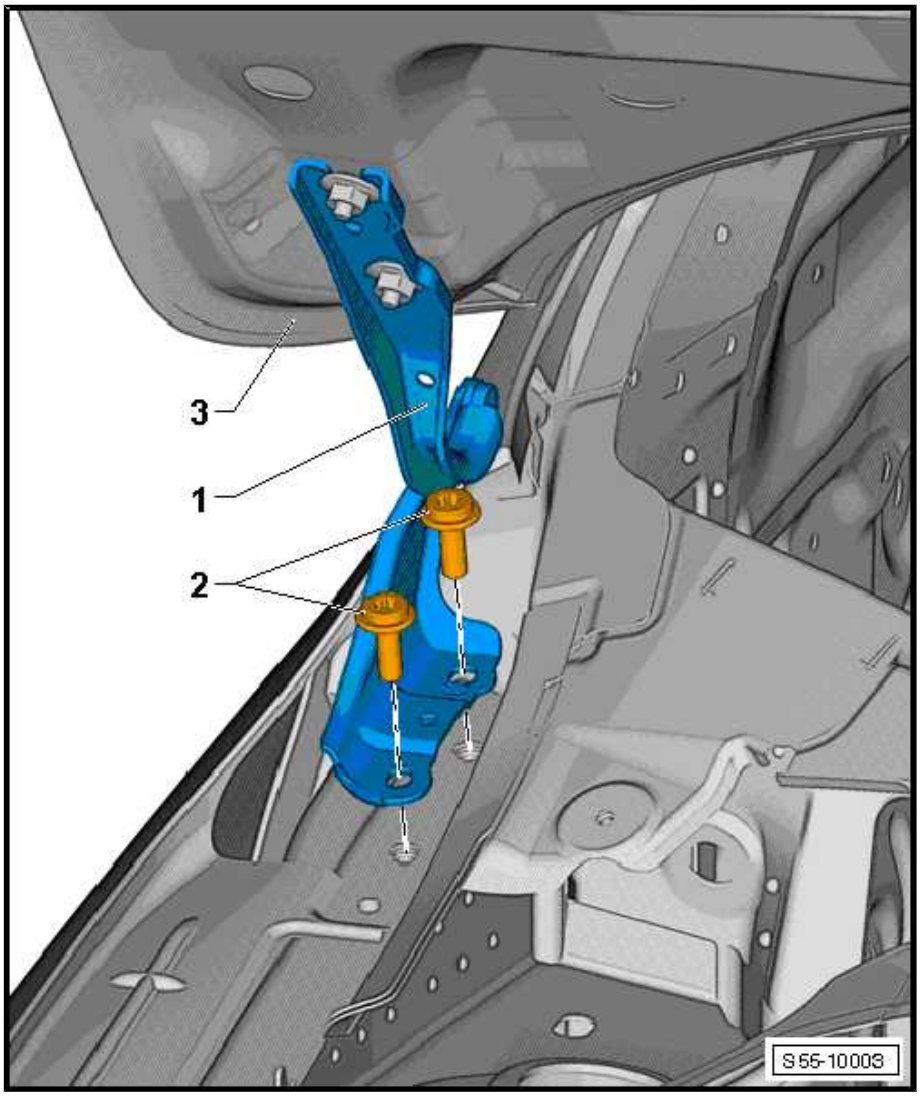
Installing

– The installation occurs in reverse order.

– Adjust front flap -1-
⇒ “1.10 Adjusting the bonnet”, page 32 .

1.3 Removing and installing the hinge for the front flap

1.3.1 Removing

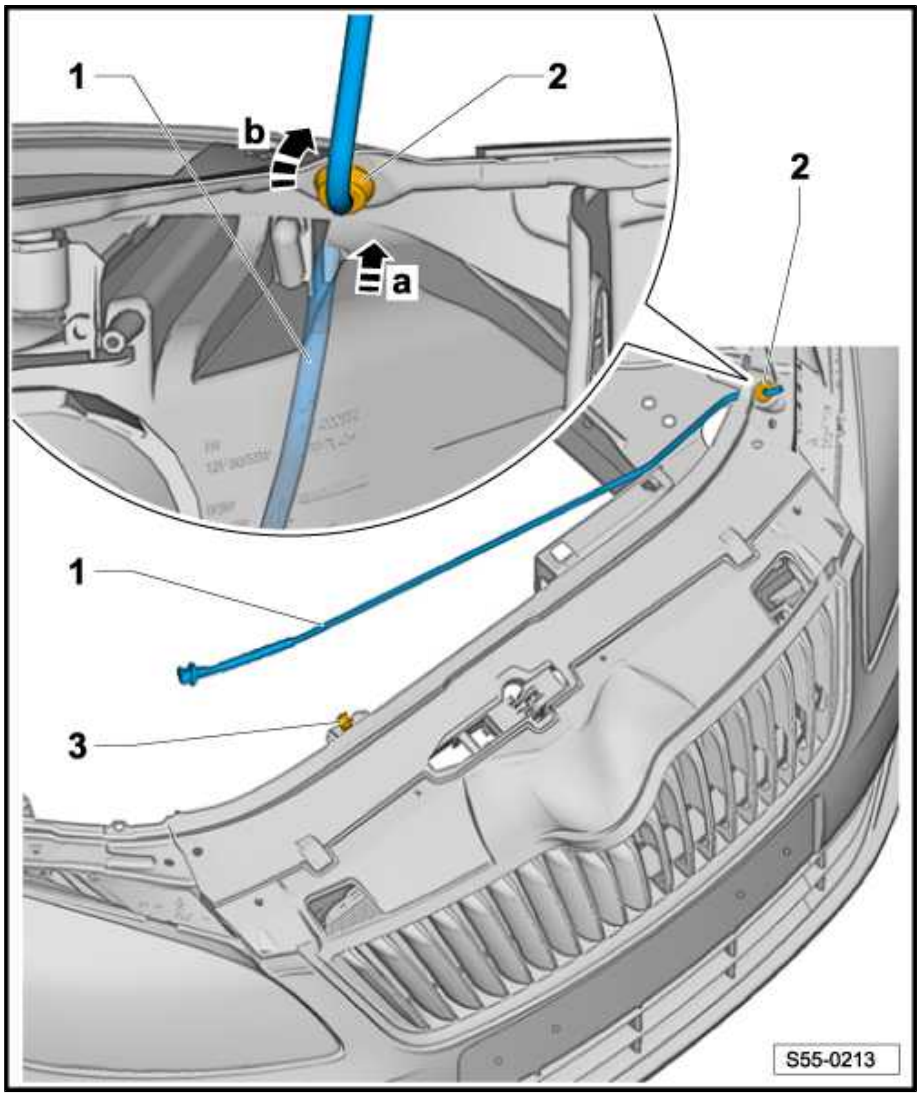


– Remove front flap -3- ⇒ “1.2.1 Removing”, page 21 .
– Remove screws -2- (20 Nm).
– Remove hinge - 1 -.

1.3.2 Installing

– The installation occurs in reverse order.

1.4 Removing and installing the support bar



Removing

– Support the bonnet.

– Swivel the support bar - 1 - towards the front and pull the support bar out of the rubber grommet - 2 -.

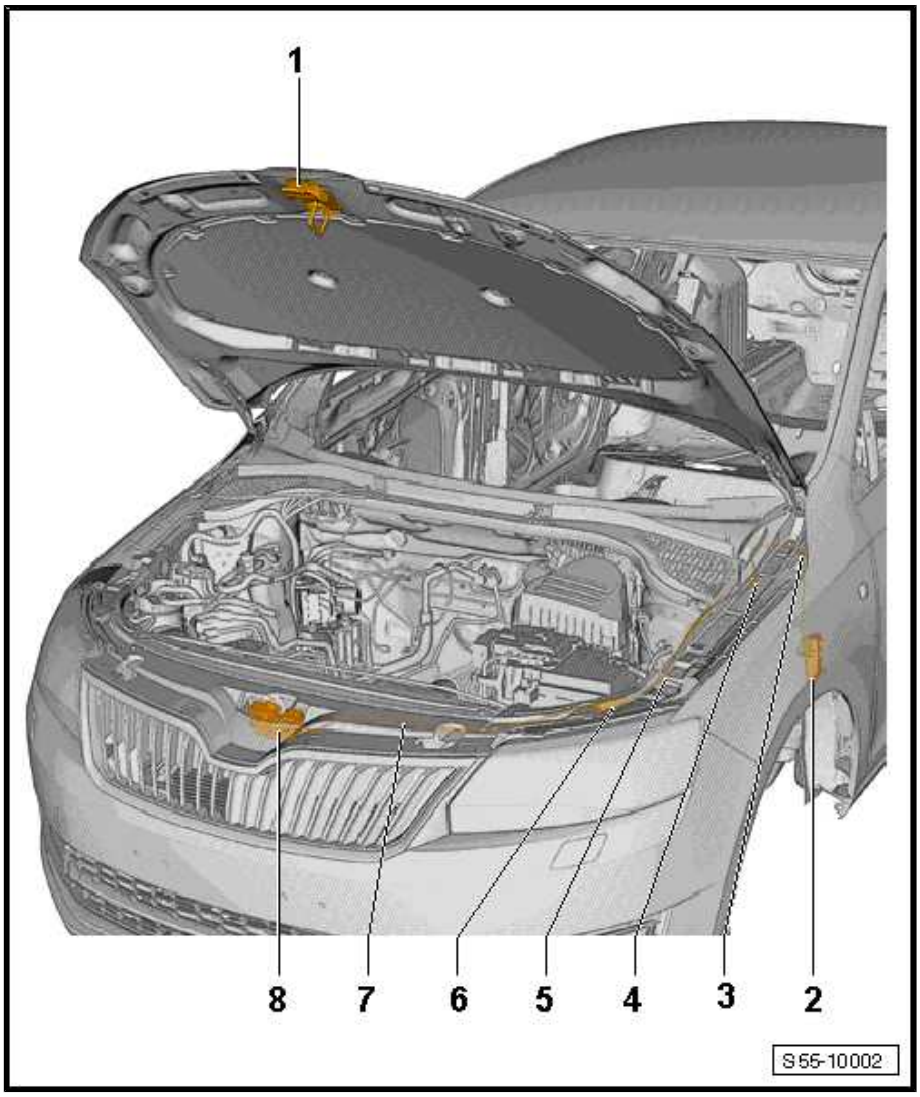
Installing

– Push the support bar -1- into the rubber grommet (Pos.2) -arrow a-.

– Swivel the support bar towards the lock carrier -arrow b-.

– Check the bracket -3- for damage, replace it if necessary.

1.5 Lock and unlock components of front flap - Summary of components



1 - Locking clamp

- ❑ Removing ⇒ “1.8 Removing and installing the locking clamp”, page 29 .
- ❑ Setting ⇒ “1.10.2 Adjusting the locking clamp”, page 34 .

2 - Release handle

- ❑ Removing and installing ⇒ “1.9.2 Removing and installing”, page 31 .

3 - Bowden cable

- ❑ From the Bowden cable coupling to the operating lever ⇒ “1.9 Removing and installing the operating lever”, page 30 .

4 - Retaining clip

5 - Bowden cable

6 - Bowden wire coupling

- ❑ The Bowden cable coupling is located above the headlight on the driver's side.
- ❑ Separate ⇒ “1.7 Separating the Bowden cable”, page 28 .

7 - Bowden cable

- ❑ From the front flap lock to the Bowden cable coupling.
- ❑ Clipped into the Bowden cable coupling.

8 - Flap lock bonnet

- ❑ Remove and install front flap lock ⇒ “1.6 Removing and installing front flap lock ”, page 25 .
- ❑ Setting ⇒ “1.10.1 Adjusting the flap lock”, page 33 .

1.6 Removing and installing front flap lock

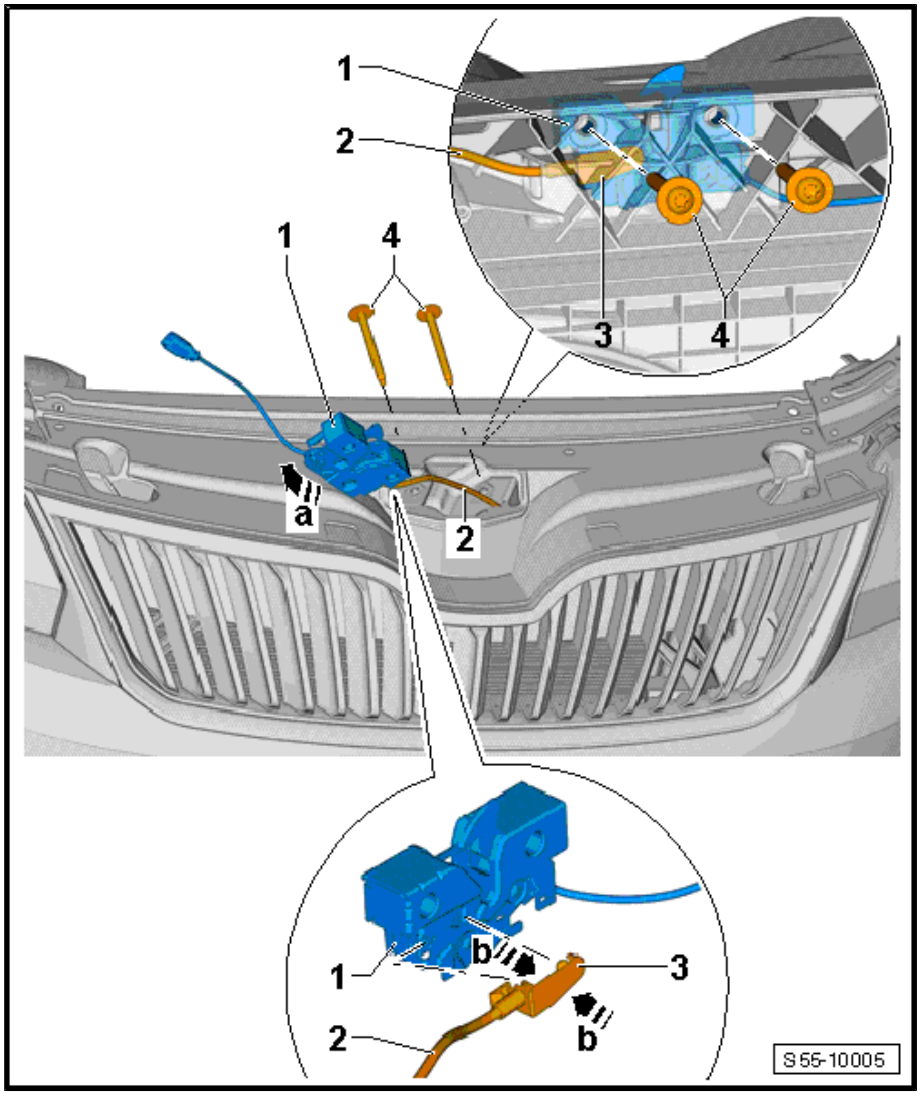
Note

Depending on the model version, slight differences must be taken into consideration when removing and installing the front flap lock.

1.6.1 Removing

Note

The Bowden cable -2- is not separated from the front flap lock.

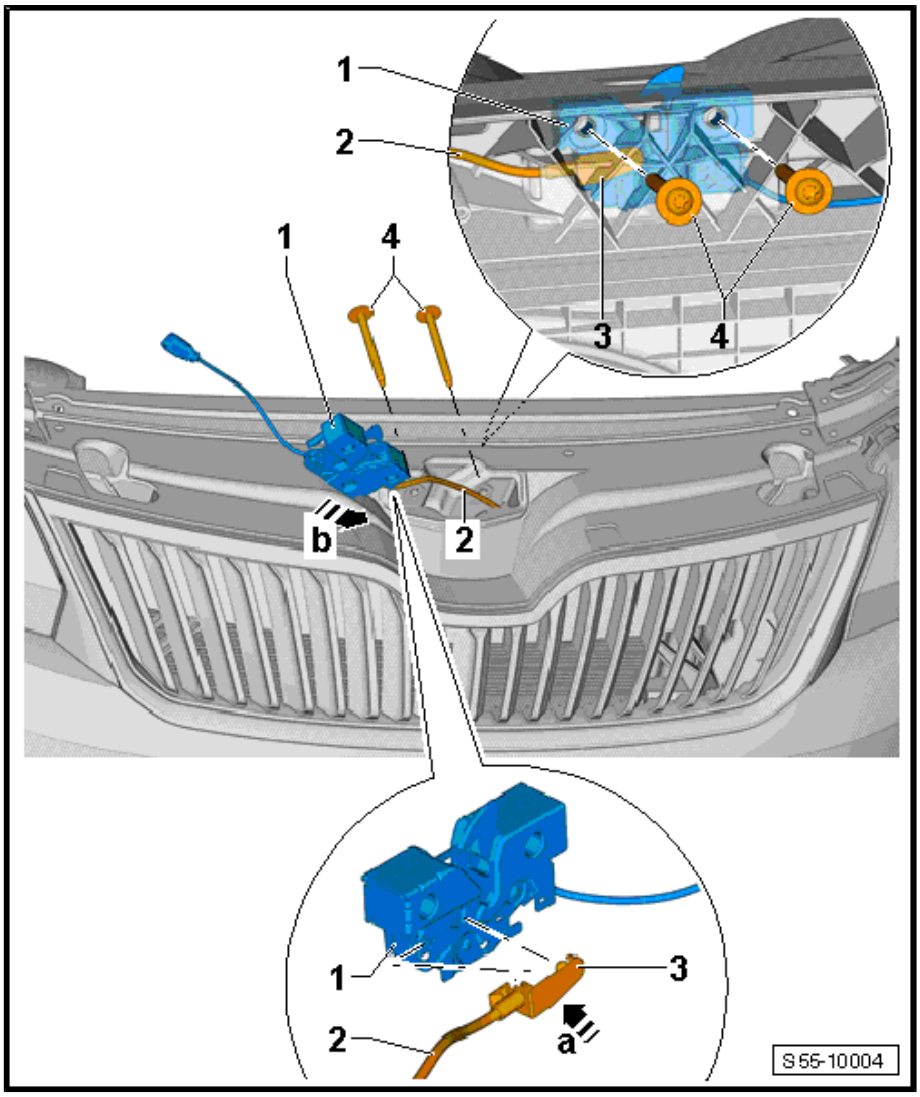


- Open front flap.
- Separate the Bowden cable -2- in the Bowden cable coupling ⇒ “1.7 Separating the Bowden cable”, page 28 .
- Depending on the additional equipment, disconnect the plug connection for the contact switch of the engine hood.
- Release the screws - 4 - (12 Nm) and remove the flap lock - 1 - in - direction of arrow a - from the lock carrier.

Note

Depending on the additional equipment, remove and install the contact switch for the engine hood at the flap lock ⇒ Electrical System; Rep. gr. 96 .

1.6.2 Installing



– Clip the end part - 3 - of the Bowden cable - 2 - into the flap lock (if it was removed) - arrow a -.

– Push the flap lock -1- into the lock carrier -arrow b-.

– Depending on the additional equipment, connect the plug connection for the contact switch of the engine hood.

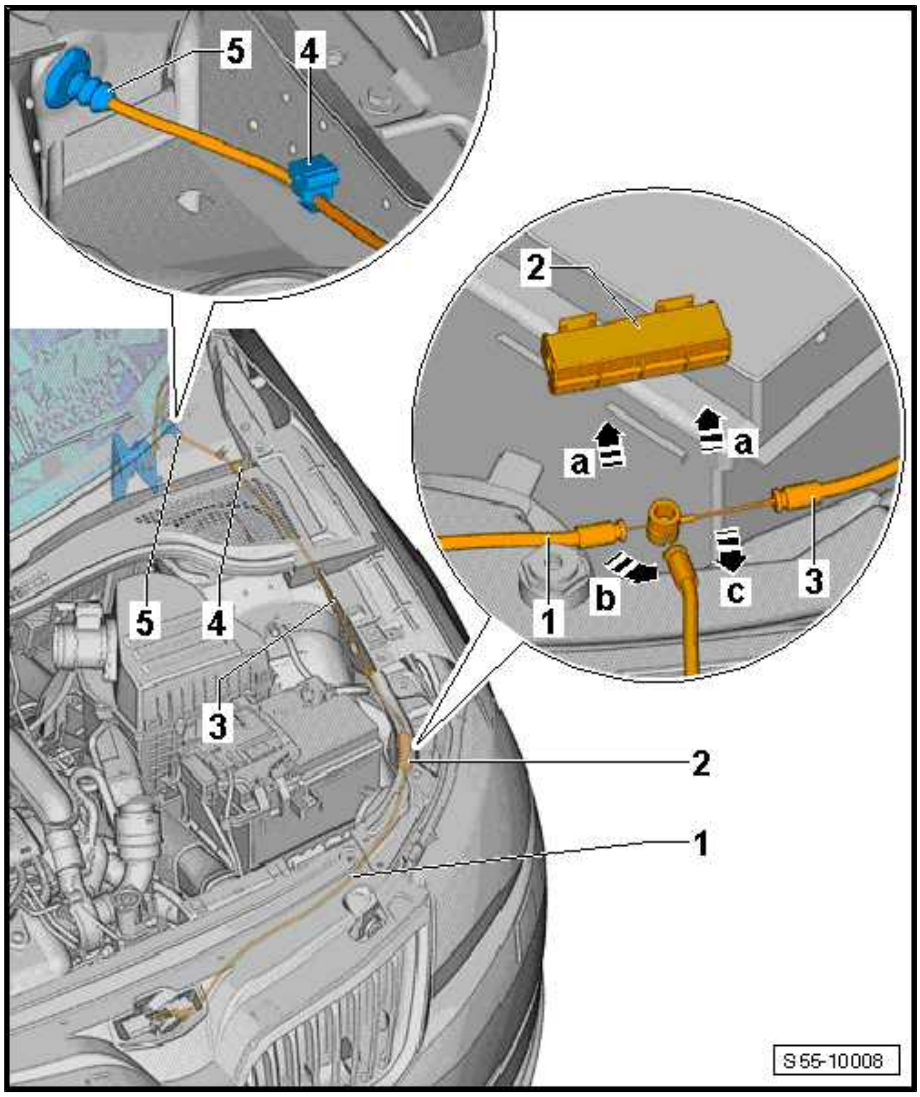
– Tightening torque of screws -4- (12 Nm).

– Install the Bowden cable -2- in the Bowden cable coupling ⇒ “1.7 Separating the Bowden cable”, page 28 .

– Adjust flap lock ⇒ “1.10.1 Adjusting the flap lock”, page 33 .

• Before closing the front flap, carry out a functional test of the operating lever and the Bowden cable.

1.7 Separating the Bowden cable



Removing

– Open front flap.

– Unclip the Bowden cable coupling - 2 -, located above the headlight on the driver's side, out of the lock carrier -arrow a-.

– Take the Bowden cables -1- and -3- out of the Bowden cable coupling -2- in -arrows a-.

– Swivel the Bowden cable -1- about 90° in -direction of arrow b- and take the Bowden cable -in direction of arrow c- out of the support of the Bowden cable.

Installing

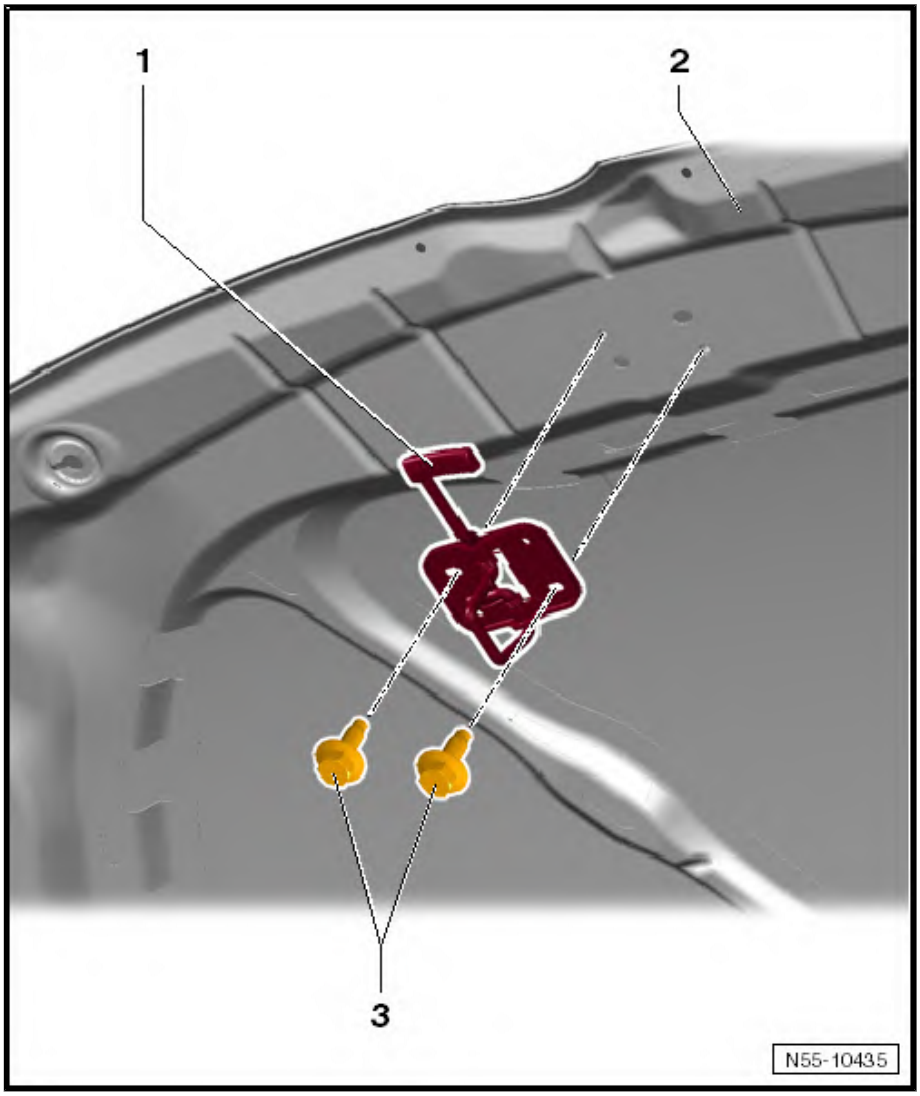
– The installation occurs in reverse order.

Note

- *When installing the Bowden cable - 3 -, ensure that the grommet - 5 - is correctly secured.*
- *When attaching the Bowden cable - 3 -, pay attention to the mandatory clipping - 4 -.*

- Before closing the front flap, carry out a functional test of the operating lever and the Bowden cable.

1.8 Removing and installing the locking clamp



Removing

– Unscrew screws -3-.

– Remove the locking clamp - 1 - from the front flap - 2 -.

Installing

– Tightening torque of screws -3- (10 Nm).

– Adjust the locking clamp to the flap lock
⇒ “1.10.2 Adjusting the locking clamp”, page 34 .

1.9 Removing and installing the operating lever

1.9.1 Summary of components

1 - Bearing bracket

2 - Bowden cable

Installing

– Insert the ball of the Bowden cable into the bracket -arrow a- and secure the Bowden cable in the bearing bracket -arrow b-.

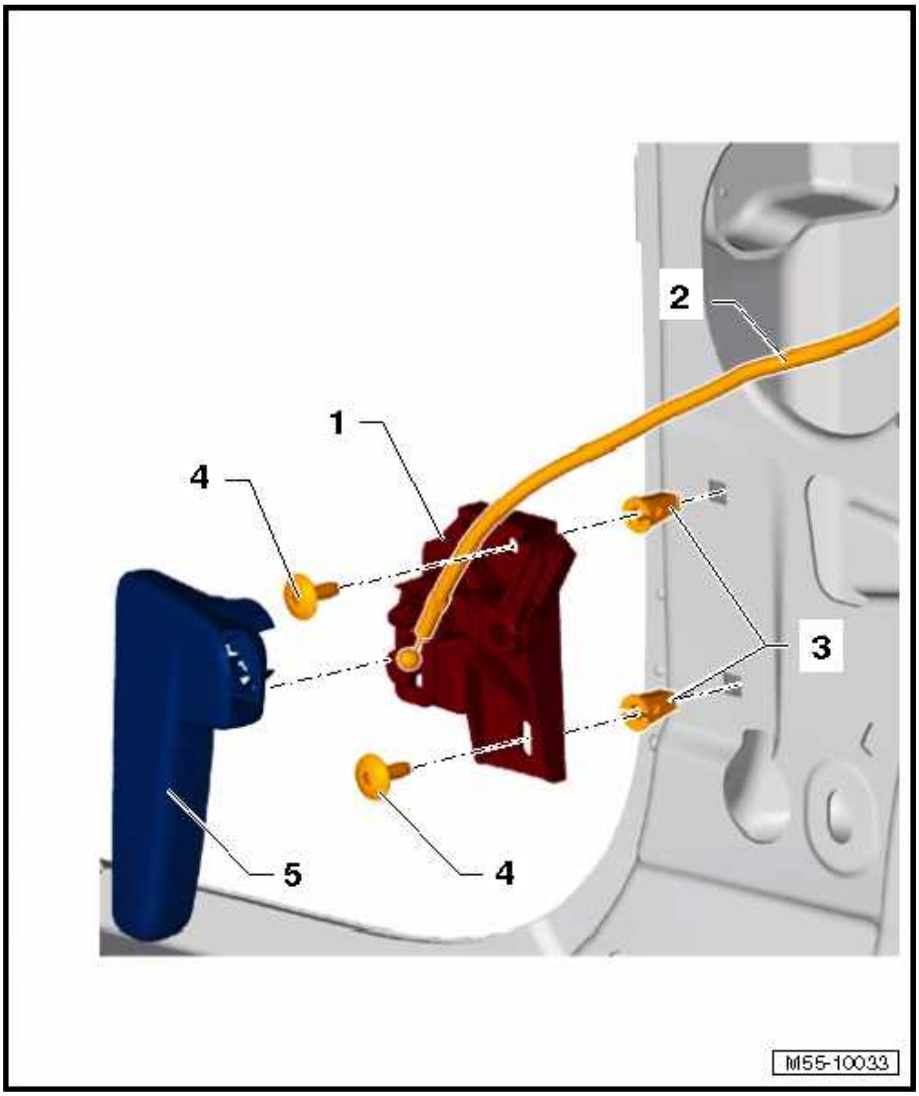
3 - Expanding nut

4 - Screw

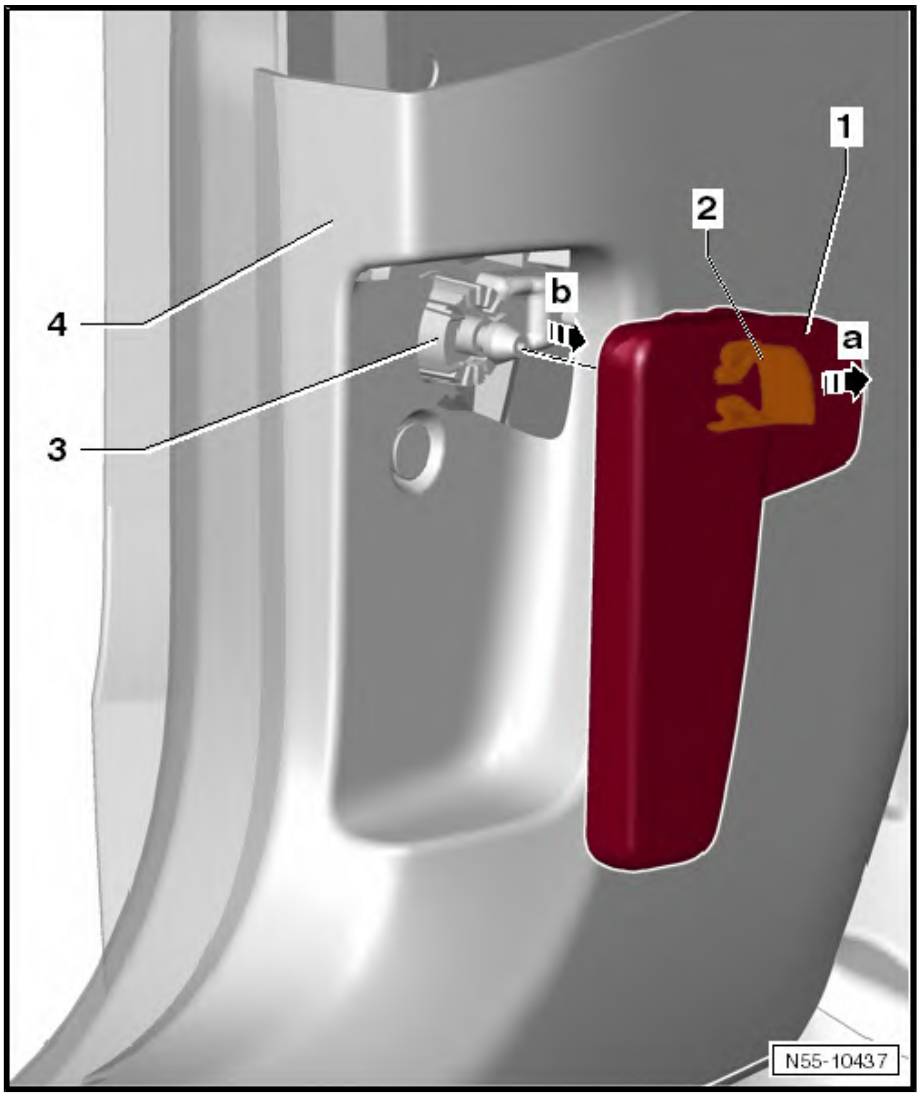
❑ Tightening torque - 2 Nm.

5 - Release handle

❑ Removing and installing ⇒ “1.9.2 Removing and installing”, page 31 .



1.9.2 Removing and installing



Removing

– Tighten the operating lever -1- and unlock the bonnet.

– Fit a small screwdriver into the gap between the operating lever - 1 - and the retaining clip - 2 -.

– Lever the retaining clip -2- out of the operating lever (Pos. 1) -arrow- and detach the operating lever from the bearing bracket -3-.

When carrying out further work on the bearing bracket - 3 -, remove the bottom A pillar trim panel - 4 -.

Installing

• The bottom A pillar trim panel -4- is installed.

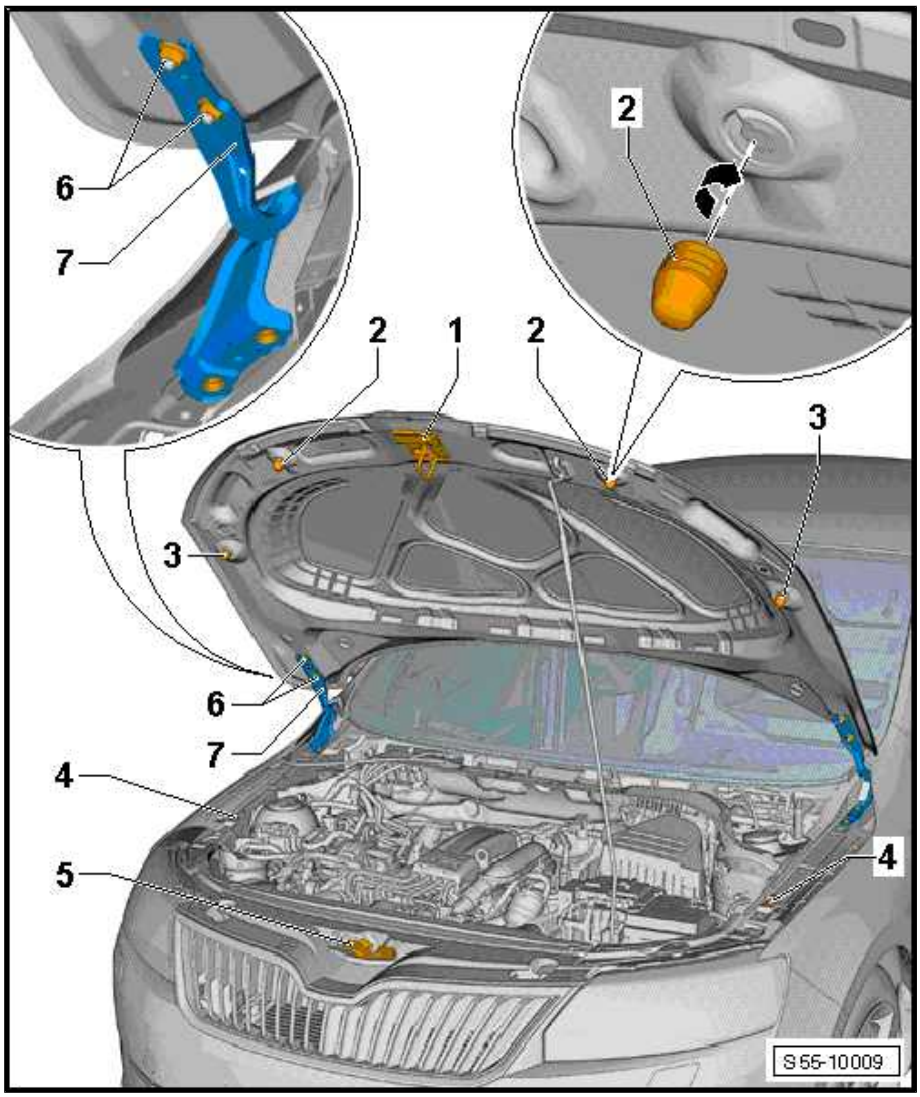
– Push the retaining clip -2- into the operating lever.

– Press the operating lever - 1 - onto the bearing bracket - 3 -.

1.10 Adjusting the bonnet

Note

- *The vehicle must be positioned on the flat ground in order to adjust the bonnet.*
- *The adjusting buffers -2- on the left and right are not used for the adjustment. They have the function to stabilise or dampen the bonnet.*
- *The bonnet is correctly adjusted if in the closed state it has an overall even gap size, is not positioned too far outwards or inwards and the contours are aligned.*
- *The bonnet must latch in the flap lock without using increased force.*
- *The nuts are not unscrewed, only slackened.*



– Remove locking clamp -1-
⇒ “1.8 Removing and installing the locking clamp”, page 29 .

– The mean of the front flap can be taken between the wings by slackening the nuts -6- on the left and right hinges -7-.

– Ensure parallelism of gap dimensions ⇒ Body Repairs; Rep. gr. 00 ; Technical data; body gaps; front body .

Adjusting the adjusting buffer

Note

- *Install the adjusting buffer - 2 and 3 - on the left and right up to the stop.*
- *Turn the adjusting buffers by 90° if required, in order to pretension the flap.*

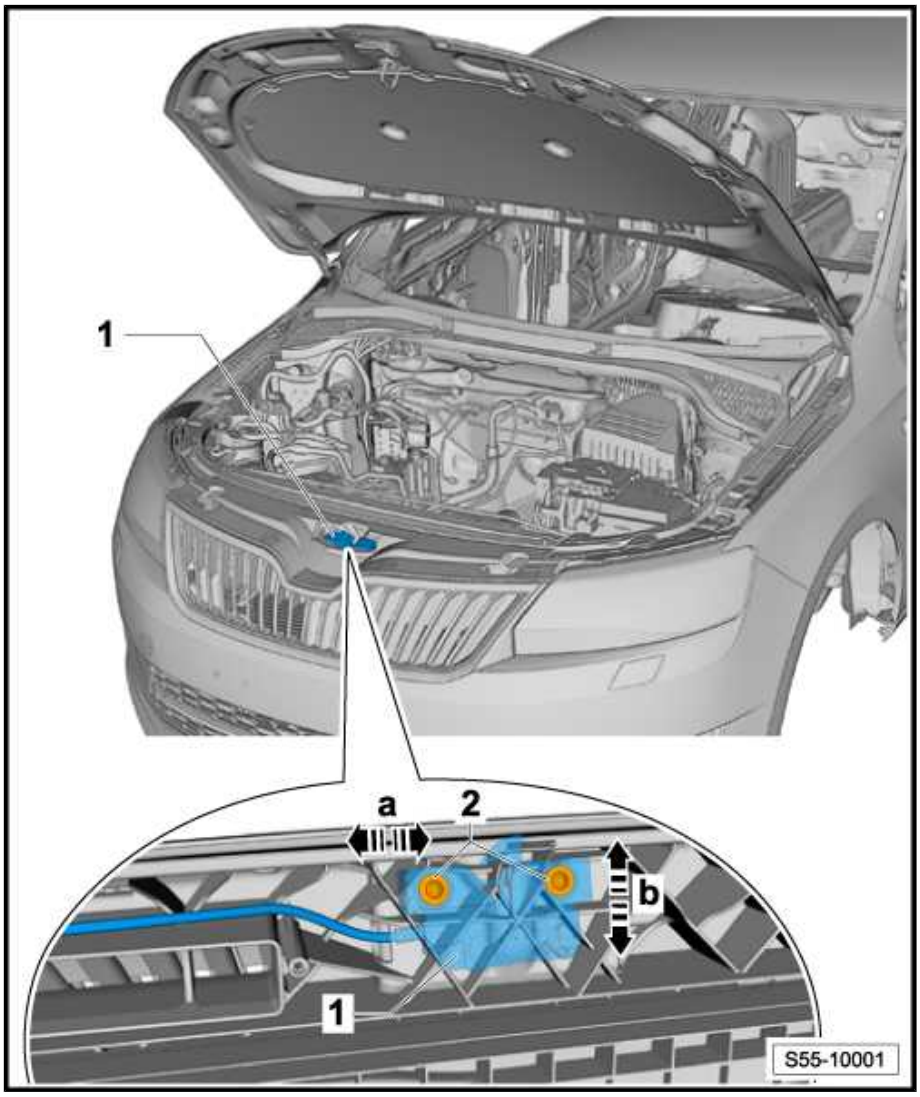
– After the front flap has been adjusted, the locking clamp - 1 - can once again be installed and adjusted
⇒ “1.10.2 Adjusting the locking clamp”, page 34 .

– The front flap can be adjusted in the front area to the height of the wings with the flap lock -5-
⇒ “1.10.1 Adjusting the flap lock”, page 33 .

– After the flap has been adjusted, the locking clamp has been installed and all the connections have been tightened, the adjusting buffers can be turned if required.

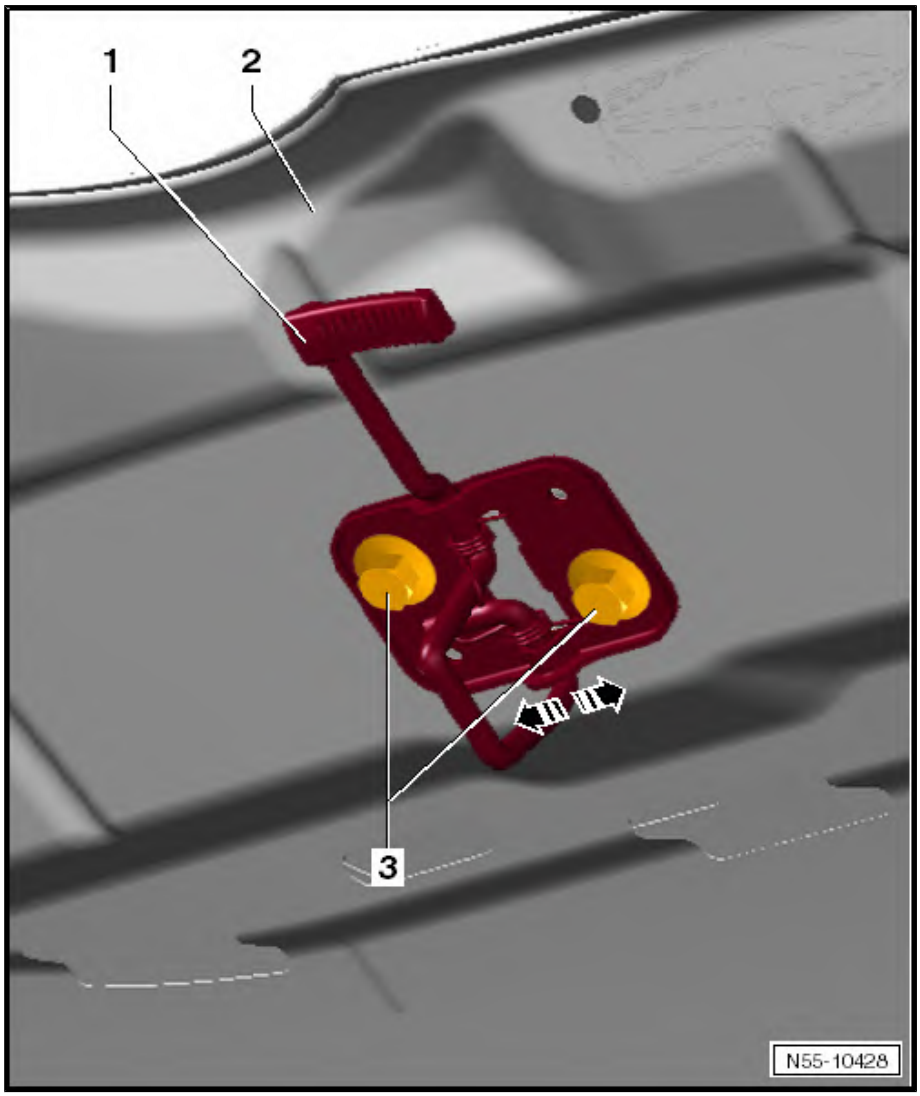
– After carrying out adjustment work, perform corrosion protection measures on the hinges -6- and the screws -7- .

1.10.1 Adjusting the flap lock



– If the screws -2- are loosened, the front flap lock -1- can be adjusted to the front flap laterally -arrow a- and in height -arrow b- ⇒ Body Repairs; Rep. gr. 00 ; body gaps; front body .
– Tightening torque of screws -2- (12 Nm).

1.10.2 Adjusting the locking clamp



– Release screws - 3 -.
– The locking clamp -1- can now be adjusted in the oversized holes.
– Tightening torque of screws -3- (10 Nm).

2 Tailgate

2.1 Summary of components

1 - Screw

- ❑ Tightening torque - 8 Nm.

2 - Wedge buffer

3 - Tailgate trim panel

- ❑ Removing and installing ⇒ “4 Tailgate trim panel”, page 274 .

4 - Tailgate

- ❑ Removing and installing ⇒ “2.2 Removing and installing tailgate”, page 36 .
- ❑ Setting ⇒ “2.4 Adjusting tailgate”, page 37 .

5 - Rubber buffer

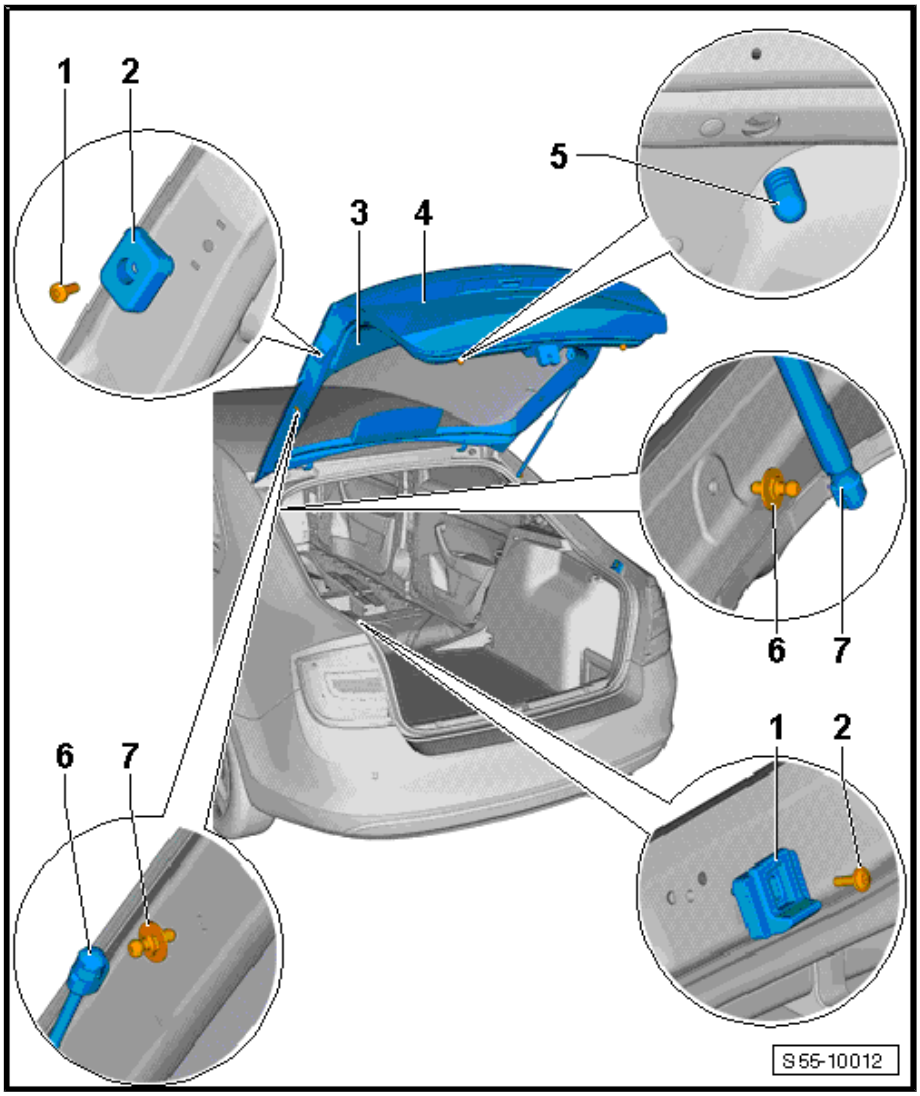
- ❑ Setting ⇒ “2.4.2 Adjusting the rubber buffer”, page 39 .

6 - Ball pin

- – Tightening torque - 20 Nm.

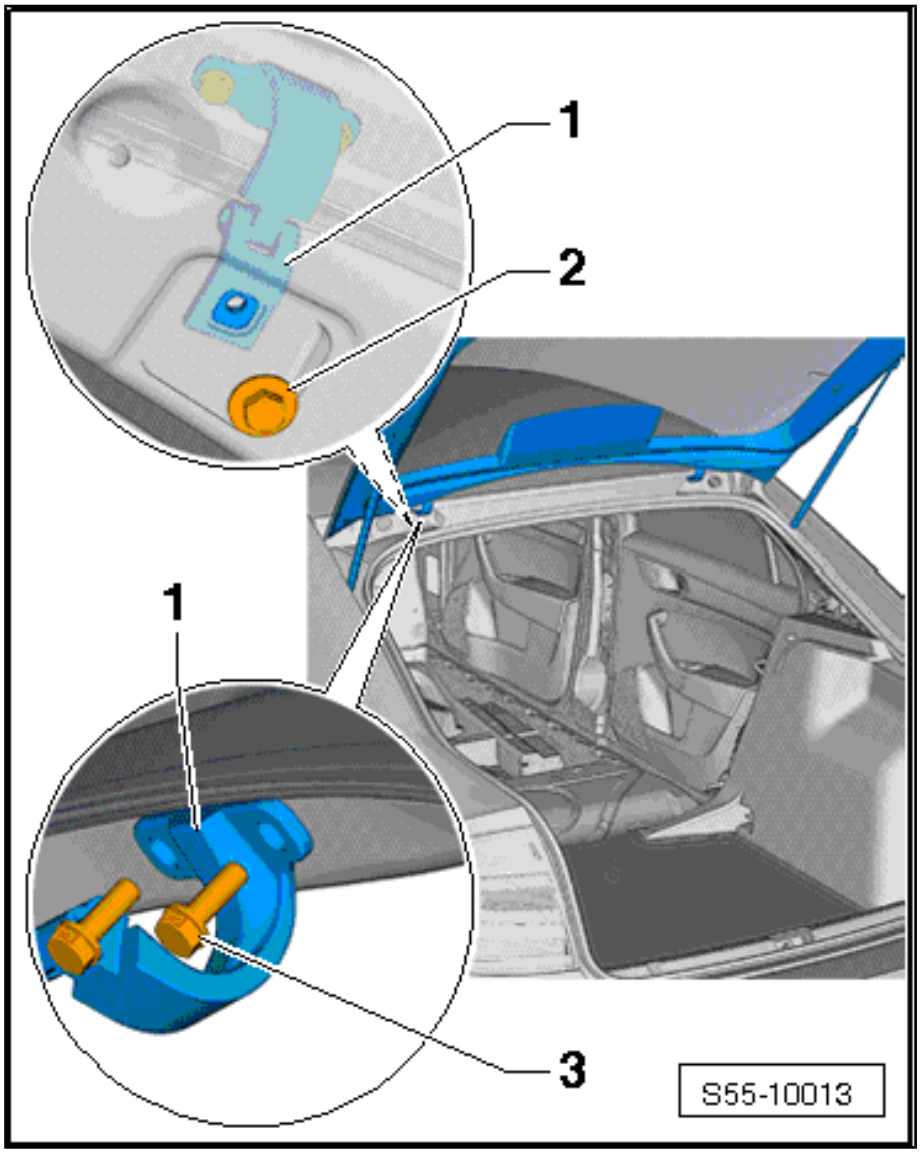
7 - Pressurized gas strut

- – Removing and installing ⇒ “2.6 Removing and installing pressurized gas strut of tailgate”, page 40 .



2.2 Removing and installing tailgate

2.2.1 Removing



– Remove the tailgate trim panel
⇒ “4 Tailgate trim panel”, page 274 .

– Disconnect the plug connections of the existing electrical components.

– Thread the electrical cables out of the tailgate.

– Slacken the screws - 3 - (10 Nm) on the left and right hinges but do not yet unscrew.

Carry out further removal only with the assistance of a second mechanic.

– Only now unscrew the screws - 3 - and remove the tailgate.

– Only if the complete hinge for the tailgate must be removed, release the nuts - 2 - (20 Nm). In this case the moulded headliner must be unhooked ⇒ “7 Moulded headliner”, page 282 .

Installing

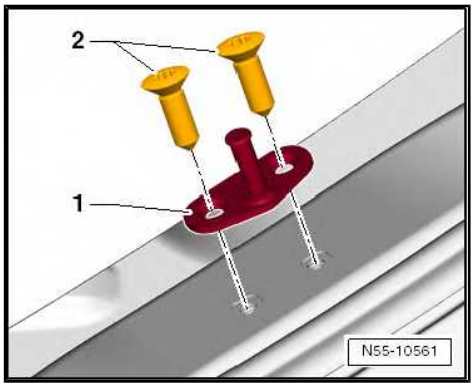
– The installation occurs in reverse order.

Note

Adjust the tailgate after installing *⇒ "2.4 Adjusting tailgate", page 37* .

2.3 Removing and installing the locking mechanism

2.3.1 Removing



– Unscrew screw -2- and remove the closing wedge -1- from the luggage compartment wall.

Installing

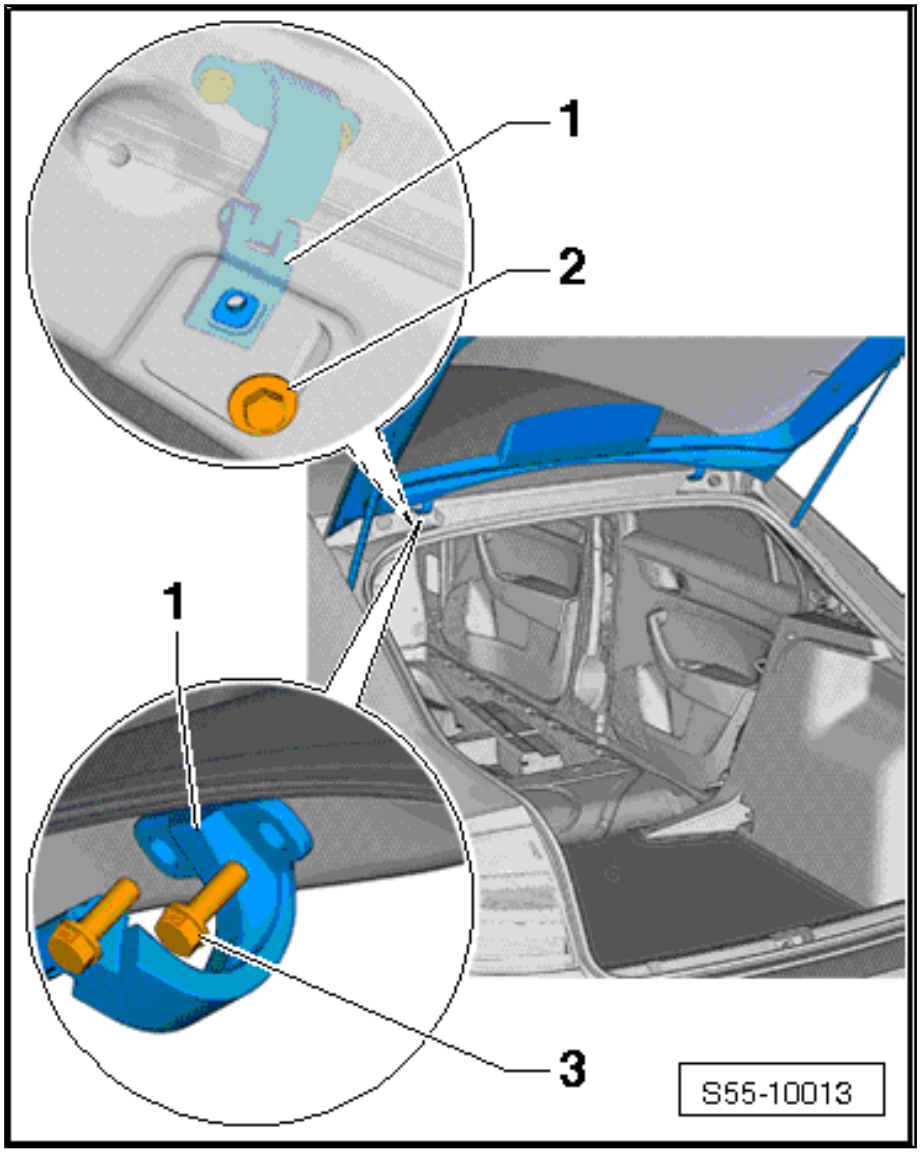
– The installation occurs in reverse order.

– Set the locking mechanism
⇒ "2.4.1 Setting the locking mechanism", page 39 .

2.4 Adjusting tailgate

Note

- *The vehicle must be standing on its wheels in order to adjust the tailgate.*
- *The flap lock is directly screwed onto the tailgate. It has no elongated holes and therefore it cannot be adjusted.*
- *The adjusting buffers on the left and right are not used for the adjustment. They have the function to stabilise or dampen the bonnet.*
- *The bonnet is correctly adjusted if in the closed state it has an overall even gap size, is not positioned too far outwards or inwards and the contours are aligned.*
- *The tailgate must latch in the flap lock without using increased force.*



Use a setting gauge for setting or checking the gap sizes ⇒ Body Repairs; Rep. gr. 00 ; Body gaps; rear body .

– The tailgate can be adjusted in the oversized bores of the hinges horizontally and vertically by slackening the screws - 3 -.

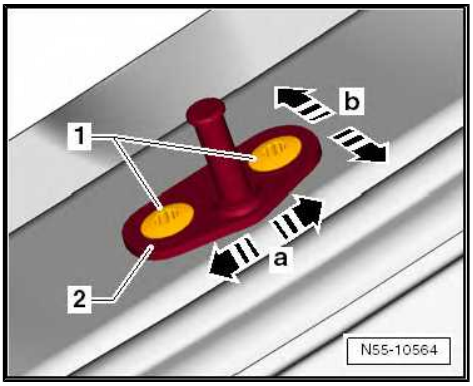
Tightening torque of screws -3- (10 Nm).

– After carrying out adjustment work, perform corrosion protection measures at the hinges and screws.

– Adjust the tailgate on the closing wedge
⇒ “2.4.1 Setting the locking mechanism”, page 39 .

– Adjust the rubber buffer on the left and right
⇒ “2.4.2 Adjusting the rubber buffer”, page 39 .

2.4.1 Setting the locking mechanism



Note

- *The closing wedge -2- can be moved in the oversized bores -arrows a- and -arrows b- by loosening the screws - 1 -.*
- *Set the locking mechanism - 2 - in such a way that the recess of the tailgate lock with the catch engages centrally in the locking mechanism - 2 -.*

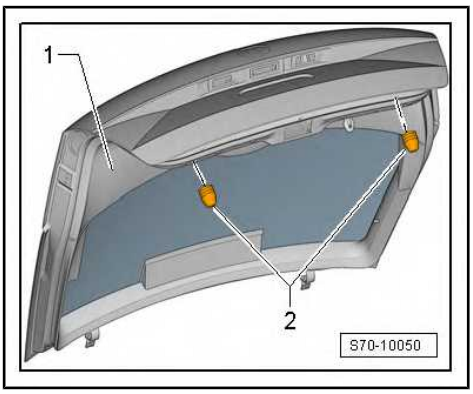
– Release screws - 1 -.

– Push the locking mechanism -2- out into the upper position and tighten the screws -1-.

– Close the tailgate and check the setting.

Tightening torque of screws -1- (20 Nm).

2.4.2 Adjusting the rubber buffer



– Adjust the rubber buffer in such a way that no excessive forces must be used when closing the tailgate -1- and that it engages in the lock.

– Remove rubber buffers -2- by approximately 2 mm out of the tailgate -1-.

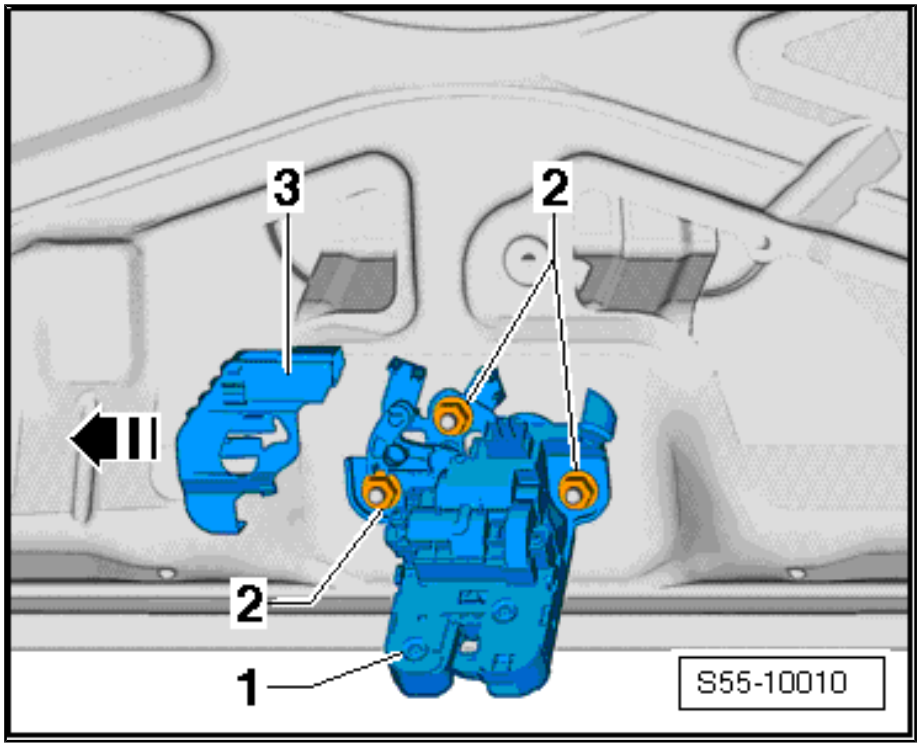
– The tailgate -1- must latch in the flap lock without using increased force.

2.5 Removing and installing the tailgate lock

Note

If the tailgate does not open, the emergency release can be opened mechanically from the luggage compartment via the lock cylinder ⇒ Owner's Manual .

2.5.1 Removing and installing



Removing

– Remove lock cover - 3 -.

– Disconnect the plug connection from the tailgate lock control - 1 -.

– Release the nuts -2- (21 Nm) and remove the flap lock -1- from the tailgate.

Installing

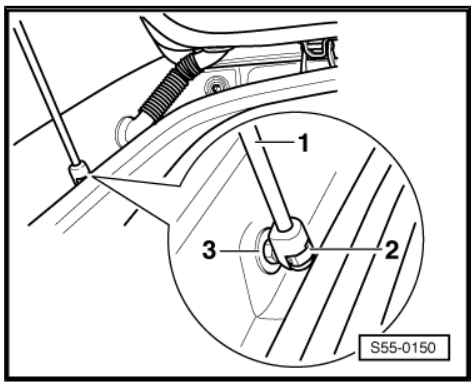
– The installation occurs in reverse order.

2.6 Removing and installing pressurized gas strut of tailgate

Removing

– Open tailgate, support and lock it into position.

– Use a screwdriver to raise the locking element - 2 - and pull the pressurized gas strut - 1 - off the ball stud - 3 -.



Note

If the pressurized gas strut is to be re-used, do not remove the locking device fully from the ball socket, otherwise it will be damaged.

– 1 - Pressurized gas strut

– 2 - Locking device

– 3 - Ball stud

Installing

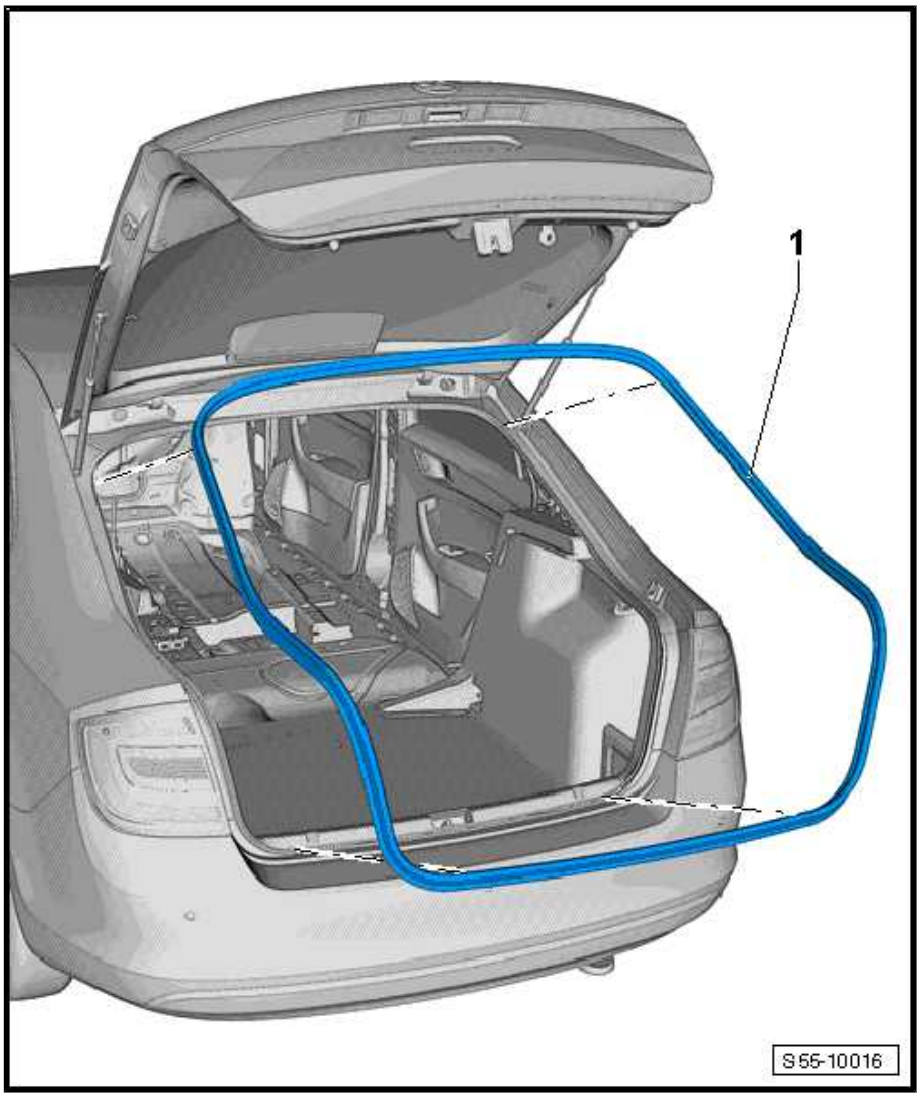
– The installation occurs in reverse order.

2.7 Tailgate seal

2.7.1 Installation instructions

- If the seal is re-installed, leak-tightness and tight fit can no longer be guaranteed.
- For this reason, each seal which was completely removed must be replaced with a so-called “hammer finish seal”.
- If the seals were detached partially, press together the sides of the seal before installing.

2.7.2 Removing and installing tailgate seal



Removing

– Pay attention to installation instructions
⇒ “2.7.1 Installation instructions”, page 41 .

– Detach the seal for the tailgate -1- from the body flange.

Installing

– Press the seal -1- evenly onto the body flange.

3 Fuel tank lid unit

3.1 Fuel-tank lid unit - Summary of components

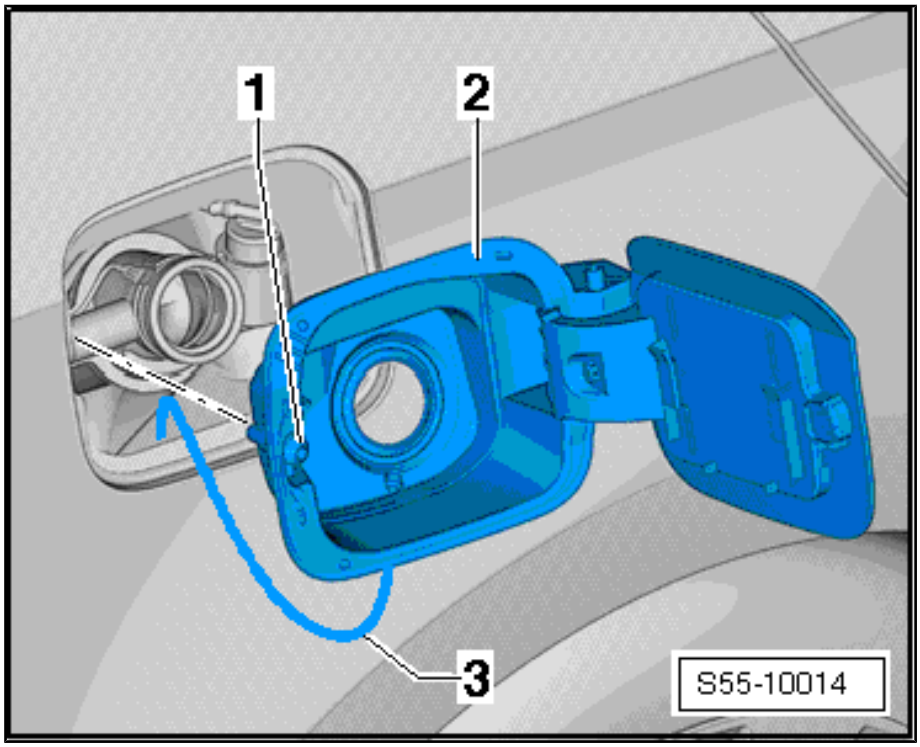
1 - Locking mechanism

2 - Fuel tank lid unit

- ❑ Removing and installing ⇒ “3.2 Removing and installing fuel tank lid unit”, page 42 .

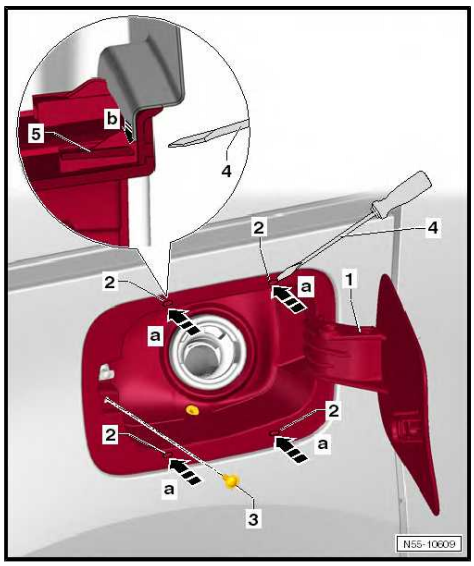
3 - Water drain hose

- ❑ Laid between the wheelhouse and the wheelhouse liner.



3.2 Removing and installing fuel tank lid unit

3.2.1 Removing



– First pierce the unit in the upper area with a thin screwdriver - 4 - or a nail - 1 - - 2 - in the - direction of arrow a - .

– Lightly ress the screwdriver in the -direction of arrow b - the catches - 5 - will be unlocked as a result.

– After unlocking the upper latches, slightly swivel the unit out of the side panel. The lower catches should then extend upwards. If the lower area can not be removed, proceed as in the upper area.

– Remove the rubber grommet from the fuel filler neck.

– Remove the fuel tank lid unit from the side section.

3.2.2 Installing

– The installation occurs in reverse order.

Note

If the latches for the fuel tank lid unit are damaged, use a new part.

3.3 Fuel-tank lid unit (Spacebook)- Summary of components

1 - Fuel tank lid

2 - Fuel tank lid unit

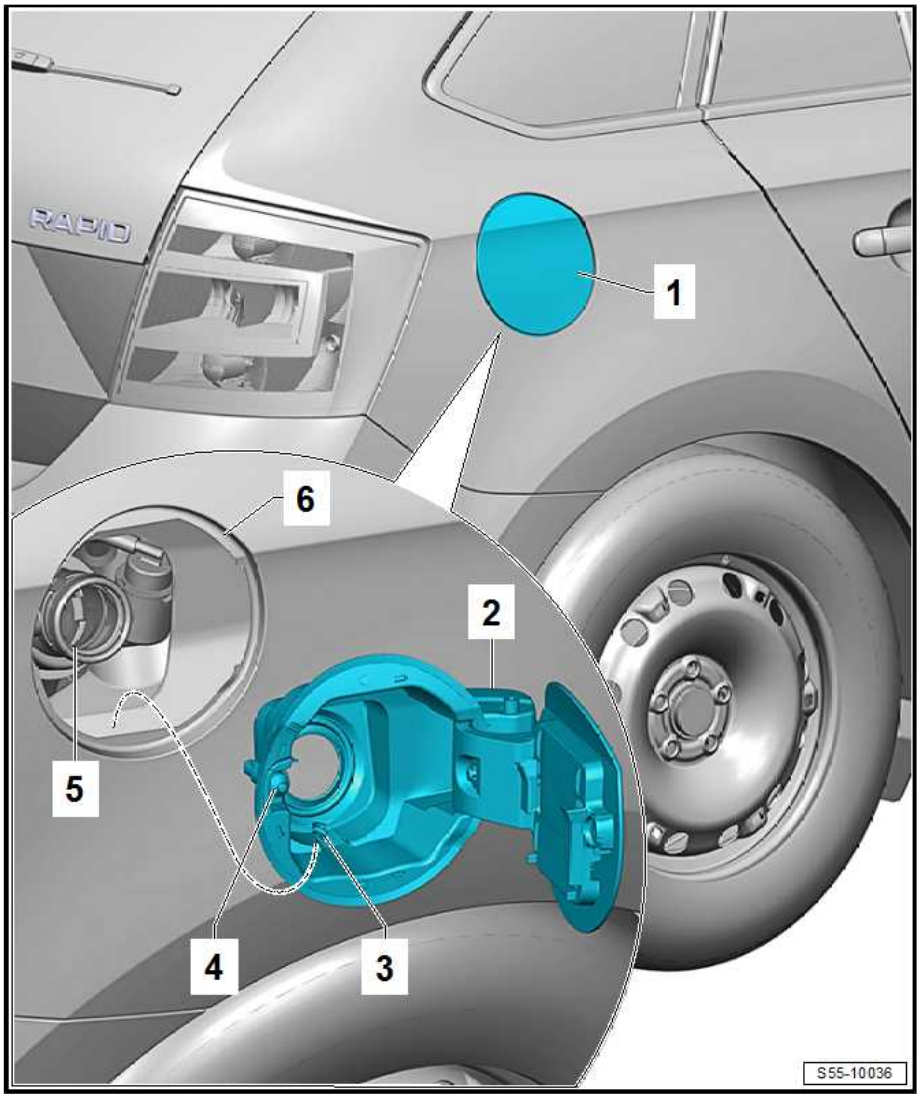
Removing and installing
⇒ “4 Removing and installing fuel tank lid unit (Spacebook)”, page 44 .

3 - Water drain hose

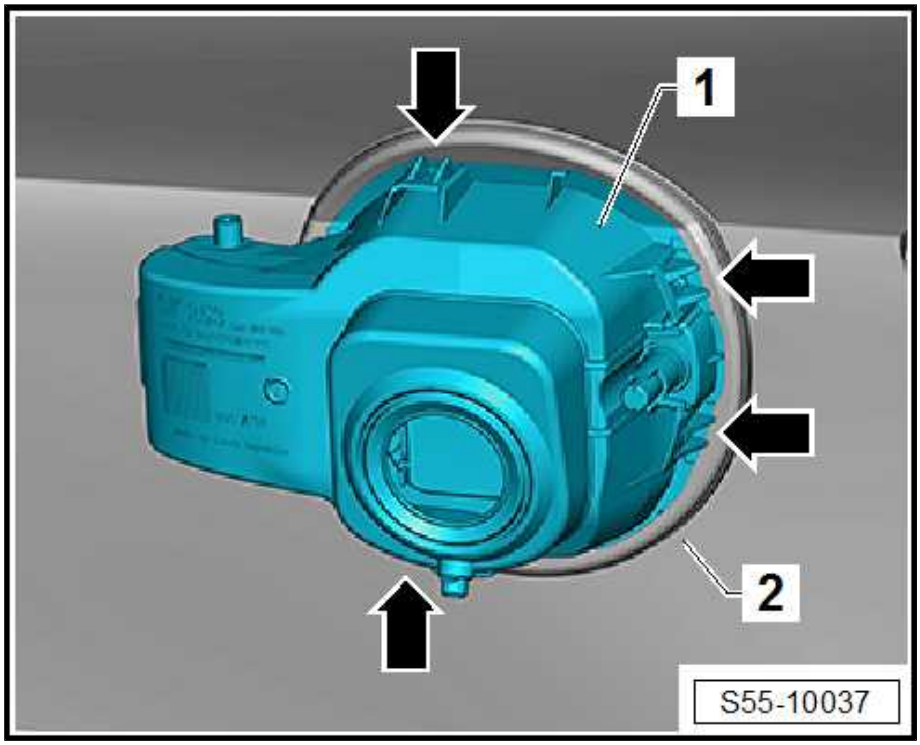
4 - Locking mechanism

5 - Fuel filler neck

6 - Side section



4 Removing and installing fuel tank lid unit (Spacebook)



Removing

– Unlock the catches - arrows -, which are clipped onto the side panel- 2 -, in the same way as in the Rapid model
⇒ “3.2 Removing and installing fuel tank lid unit”, page 42 .

– Remove fuel tank lid unit - 1 - outwards.

Installing

– Perform the installation by pressing in the fuel tank lid unit in the lateral part. Latch the fuel tank lid unit for the correct position until it audibly clicks into place.

Note

If the latches for the fuel tank lid unit are damaged, use a new part.

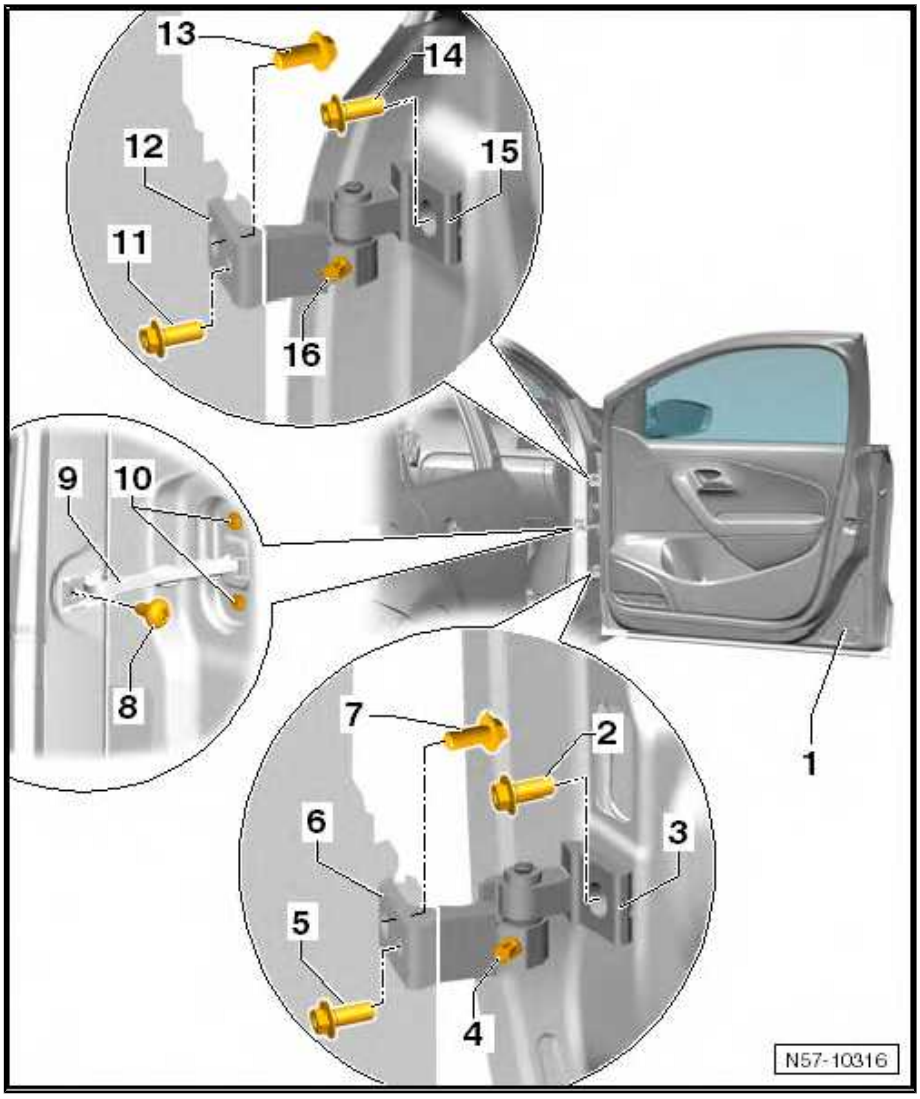
57 – Front doors, door components, central locking

1 Front door

1.1 Assembly overview - door hanger

Note

Always replace the screws for the door hinges after the removal.



1 - Door

- ❑ Removing and installing ⇒ “1.2 Removing and installing the door”, page 47 .
- ❑ Setting ⇒ “1.3 Door adjustment”, page 49 .

2 - Multi-point socket head bolt

- ❑ 32 Nm.
- ❑ Always replace the screws after the removal.

3 - Door hinge

- ❑ The top part is connected to the bottom part of the hinge by the screw - 4 -.

4 - Screw

- ❑ This screw must be unscrewed in order to remove the door from the hinge.
- ❑ 23 Nm.

5 - Multi-point socket head bolt

- ❑ Installed from the inside of the vehicle.
- ❑ Remove bottom A-pillar trim panel.
- ❑ 32 Nm.
- ❑ Always replace the screws after the removal.

6 - Door hinge

- ❑ The bottom part is connected to the top part of the hinge by the screw -4-.

7 - Multi-point socket head bolt

- ❑ 32 Nm.
- ❑ Always replace the screws after the removal.

8 - Screw

- ❑ 32 Nm.
- ❑ 30 Nm - only for the assembly plant in Russia.

- ❑ This screw must be unscrewed in order to remove the door.

9 - Door retaining strap

10 - Screw

- ❑ 9 Nm.

11 - Multi-point socket head bolt

- ❑ Installed from the inside of the vehicle.
- ❑ Remove and install the dash panel for loosening or tightening the screw on the driver's side ⇒ “1.1 Removing and installing the dash panel”, page 244 .
- ❑ Remove and install the dash panel for loosening or tightening the screw on the front passenger side ⇒ “1.1 Removing and installing the dash panel”, page 244 .
- ❑ 32 Nm.
- ❑ Always replace the screws after the removal.

12 - Door hinge

- ❑ The bottom part is connected to the top part of the hinge by the screw -16-.

13 - Multi-point socket head bolt

- ❑ 32 Nm.
- ❑ Always replace the screws after the removal.

14 - Multi-point socket head bolt

- ❑ 32 Nm.
- ❑ Always replace the screws after the removal.

15 - Door hinge

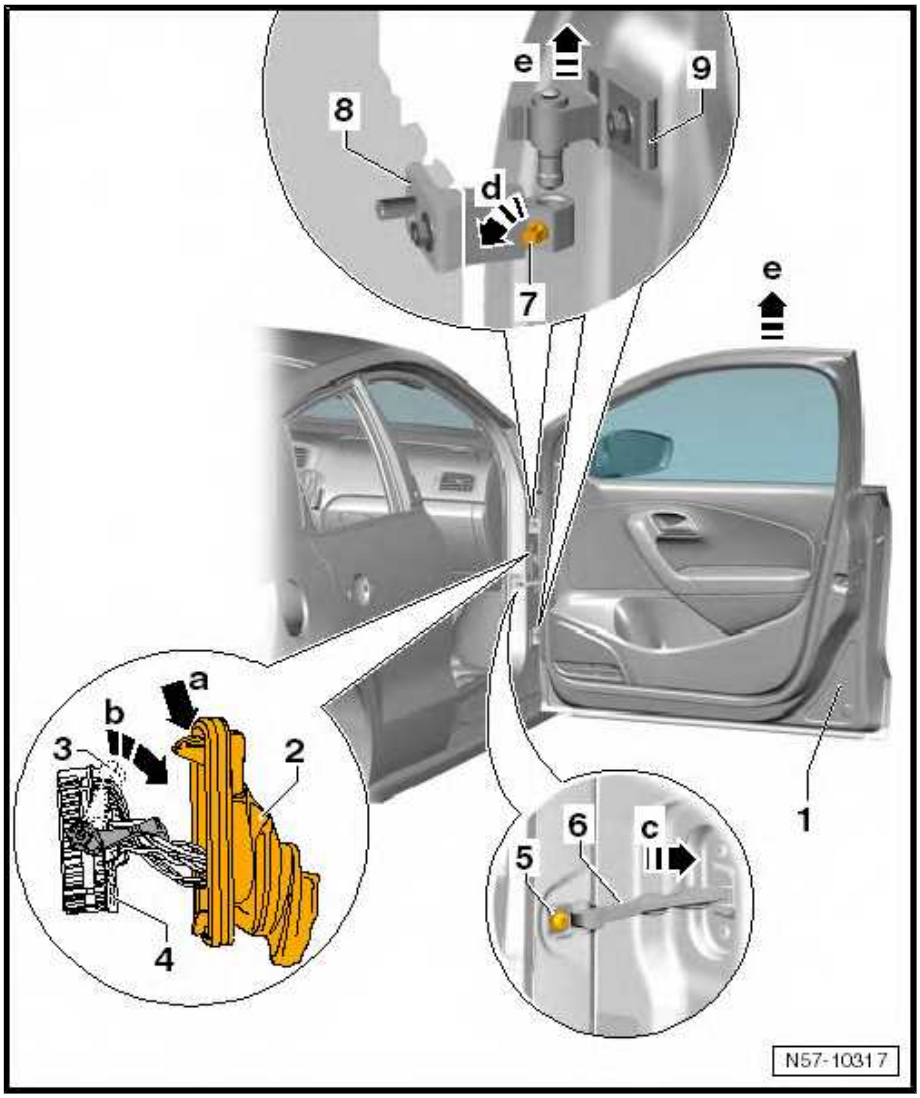
- ❑ The top part is connected to the bottom part of the hinge by the screw - 12 -.

16 - Screw

- ❑ 23 Nm.
- ❑ This screw must be screwed down in order to remove the door from the hinge bolt.

1.2 Removing and installing the door

1.2.1 Removing



– Release the bellows -2- by pressing on the catch -arrow a- and detach it from the A pillar.

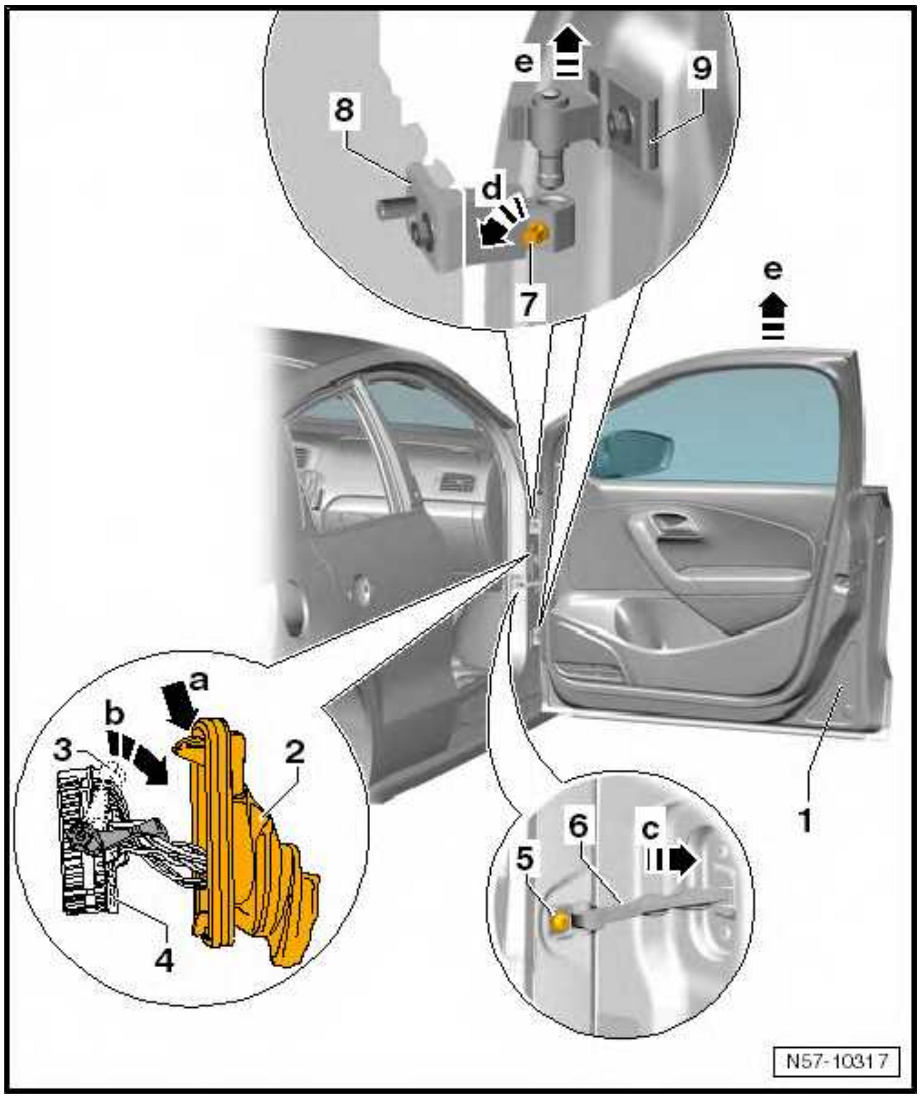
– Swivel the release lever -3- downwards -arrow b- and disconnect the el. plug connection -4- from the connector station.

– Slacken the screws -7- at the hinges -arrows d-.

– Remove the screws -5- for the door retaining strap -6-.

– Pull the door -1- upwards -arrow e- and out of the hinges -8-.

1.2.2 Installing



Installing

– The installation occurs in reverse order.

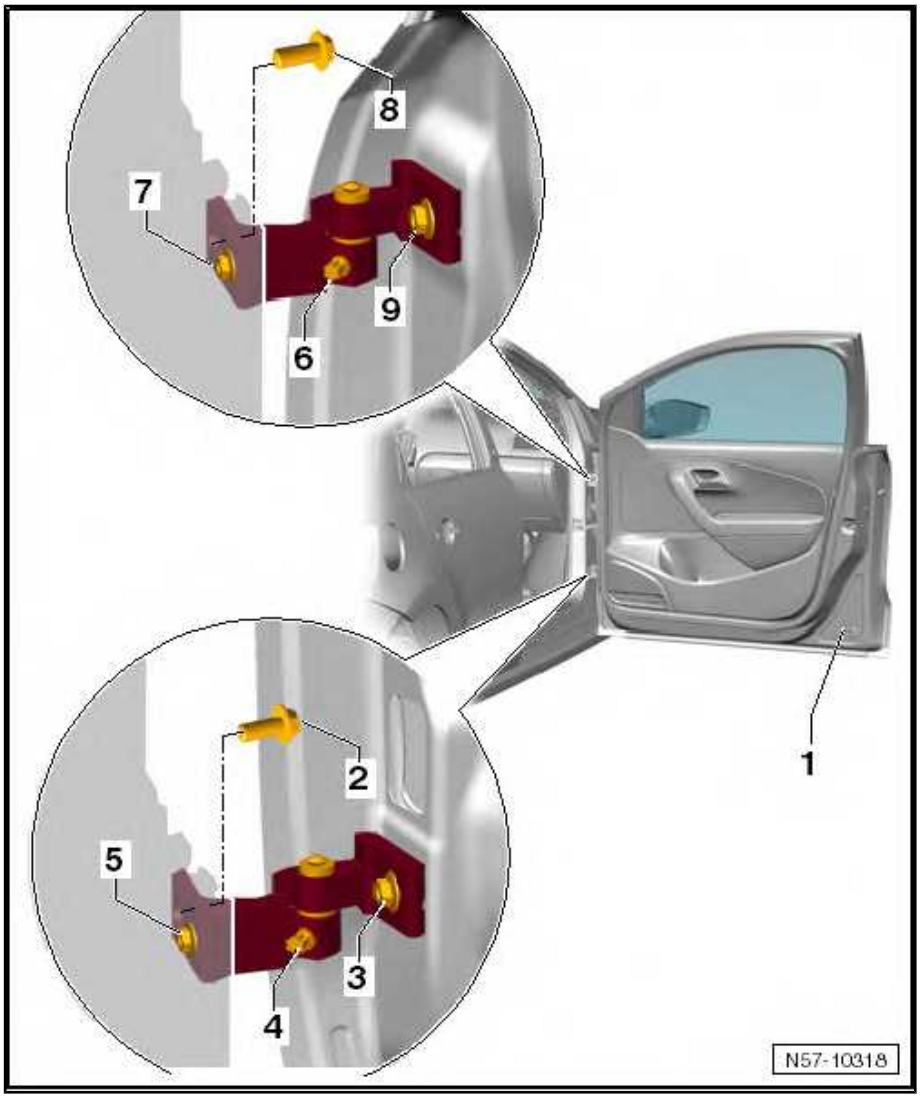
– Tightening torques of screws
⇒ “1.1 Assembly overview - door hanger ”, page 45 .

– Observe the gap sizes of the front door ⇒ Body Repairs; Rep. gr. 00 ; technical data; body gaps; front body .

1.3 Door adjustment

Note

- *The vehicle must be standing on its wheels in order to adjust the door.*
- *The door is correctly adjusted if in the closed state it has an overall even gap size, is not positioned too far outwards or inwards and the contours are aligned.*
- *For checking the gap sizes: ⇒ Body Repairs; Rep. gr. 00 ; Technical data; body gaps; front body .*
- *After carrying out adjustment work, perform corrosion protection measures at the screws and hinges.*



Setting the gap sizes

In order to correctly set the gap sizes, the screws -2, 5, 7, and 8- must be slackened at the A pillar.

– The bottom A pillar trim panel must be removed for slackening the screw -5-
⇒ “3.2 Removing and installing bottom trim panel of pillar A on the driver's side”, page 264 .

– The dash panel must be removed on the driver's side for slackening the screw - 7 -
⇒ “1.1 Removing and installing the dash panel”, page 244 .

– The glove compartment must be removed on the front passenger side for slackening the screw - 7 -
⇒ “1.2 Removing and installing the glove compartment”, page 249 .

Setting the gap sizes

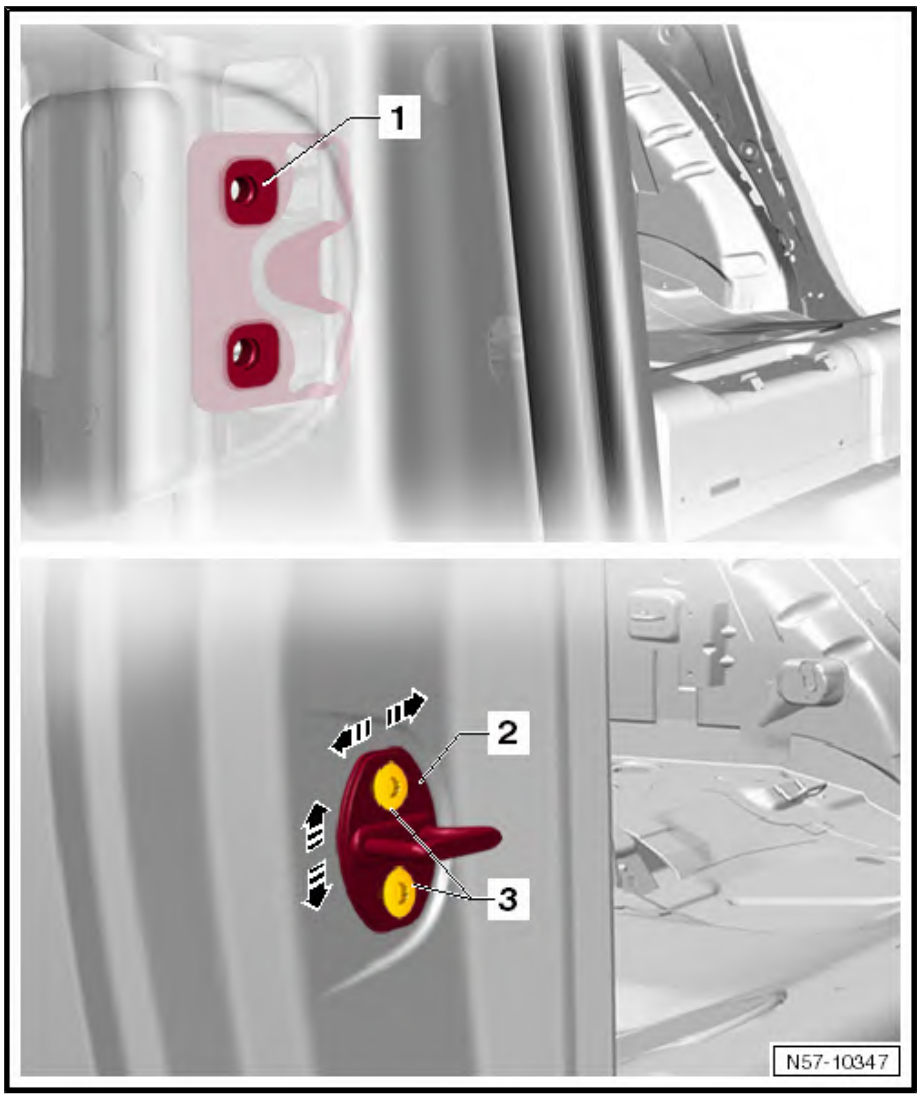
The screws -3 and 9- must be released for correctly setting the flushness.

Note

Other measures, such as aligning the doors towards the top are ineffective. The door will drop again at the following overpressures.

Adjusting the locking clamp
⇒ “1.3.1 Adjusting the locking clamp”, page 50 .

1.3.1 Adjusting the locking clamp



Note

- *The arc outside the threaded plate must be firmly welded to the pillar. The lands to the threaded plate are malleable.*
- *To adjust the locking clamp -2- once the screws -3- are loosened, increased force must be applied.*

Note

- *When closing the door it must lock completely without using additional force and must have no play.*
- *When adjusting the locking clamp, the door must not be pressed upwards or downwards.*

The locking clamp is used for adjusting the following:

- If the front door adjustment is not flush with the rear door or the side part.

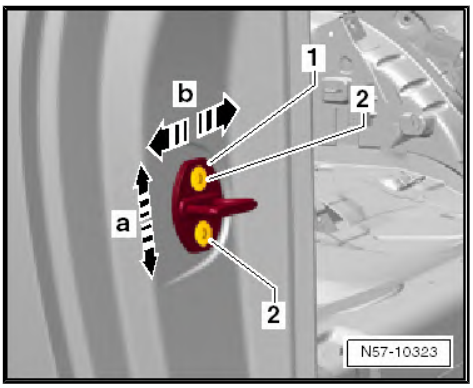
Carry out the following tasks

– Slacken the locking clamp -1- by loosening the screws -2- at the B pillar.

– Adjust the door with the locking clamp -2- in such a way that the front door when in the closed state is flush with the rear door (wind noise).

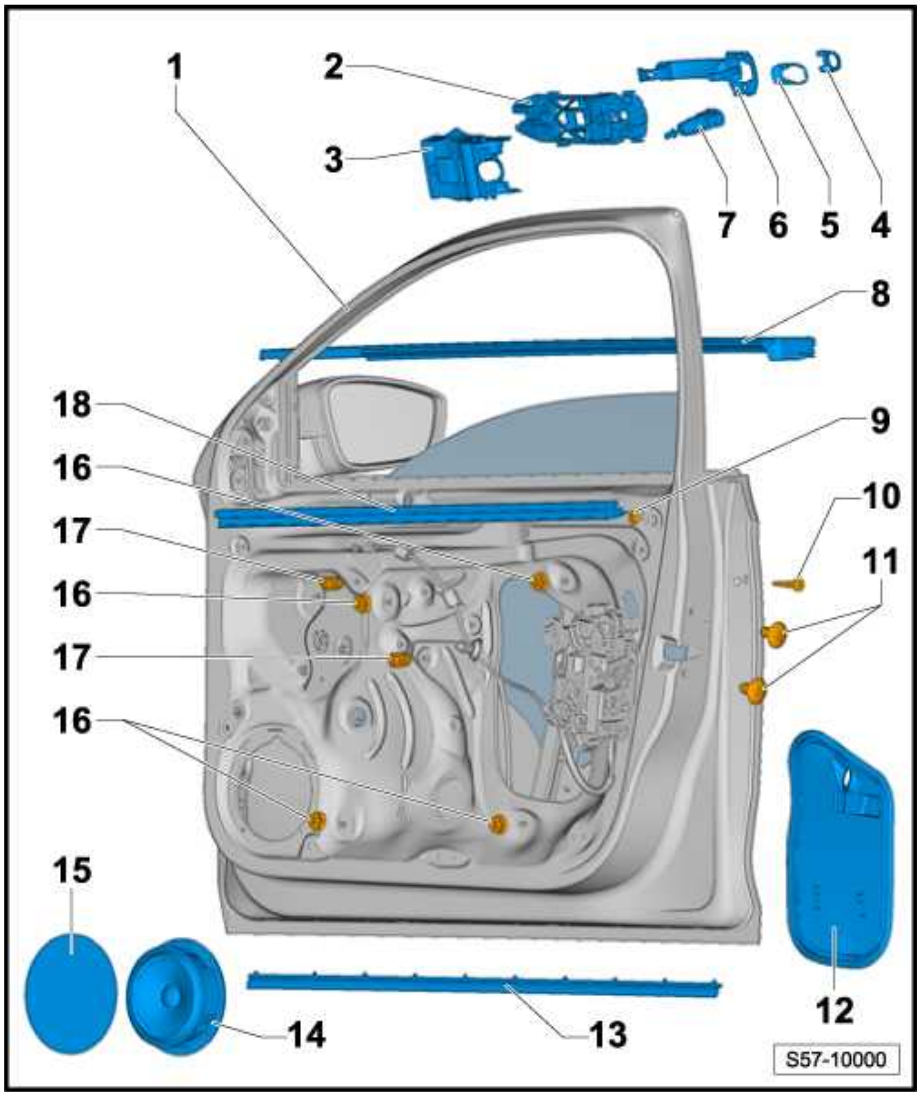
– Tighten screws - 2 - of locking clamp - 1 -.

Tightening torque of screws -2- (20 Nm).



2 Door internal parts

2.1 Front door - Summary of components



1 - Door

- ❑ Removing and installing ⇒ “1.2.1 Removing”, page 47 .
- ❑ Setting ⇒ “1.3 Door adjustment”, page 49 .

2 - Clamp

- ❑ Removing and installing ⇒ “2.9 Removing and installing bearing bracket”, page 67 .

3 - Cover for bearing bracket

4 - Cap of lock cylinder

- ❑ Removing and installing ⇒ “2.4 Removing and installing cap for lock cylinder”, page 57 .

5 - Supporting plate

6 - Outer door handle

- ❑ Removing and installing ⇒ “2.7 Removing and installing the door handle”, page 63 .

7 - Lock cylinder

- ❑ Removing and installing ⇒ “2.5 Removing and installing lock cylinder”, page 57 .

8 - External window channel strip

- ❑ Removing and installing ⇒ “2.16 Removing and installing the outer window channel strip”, page 81 .

9 - Adhesive pad

10 - Screw

- ❑ Tightening torque - 2.2 Nm.

11 - Screw

- ❑ Tightening torque - 20 Nm.

12 - Cap

- ❑ Removing and installing ⇒ “2.2 Removing and installing the door cover”, page 53 .

13 - Outside door seal

- ❑ Removing and installing ⇒ “2.18 Removing and installing the outside door seal”, page 84 .

14 - Loudspeaker

15 - Cap

- ❑ Self-adhesive.

❑ If a speaker was not installed.

16 - Nut

❑ Tightening torque - 6 Nm.

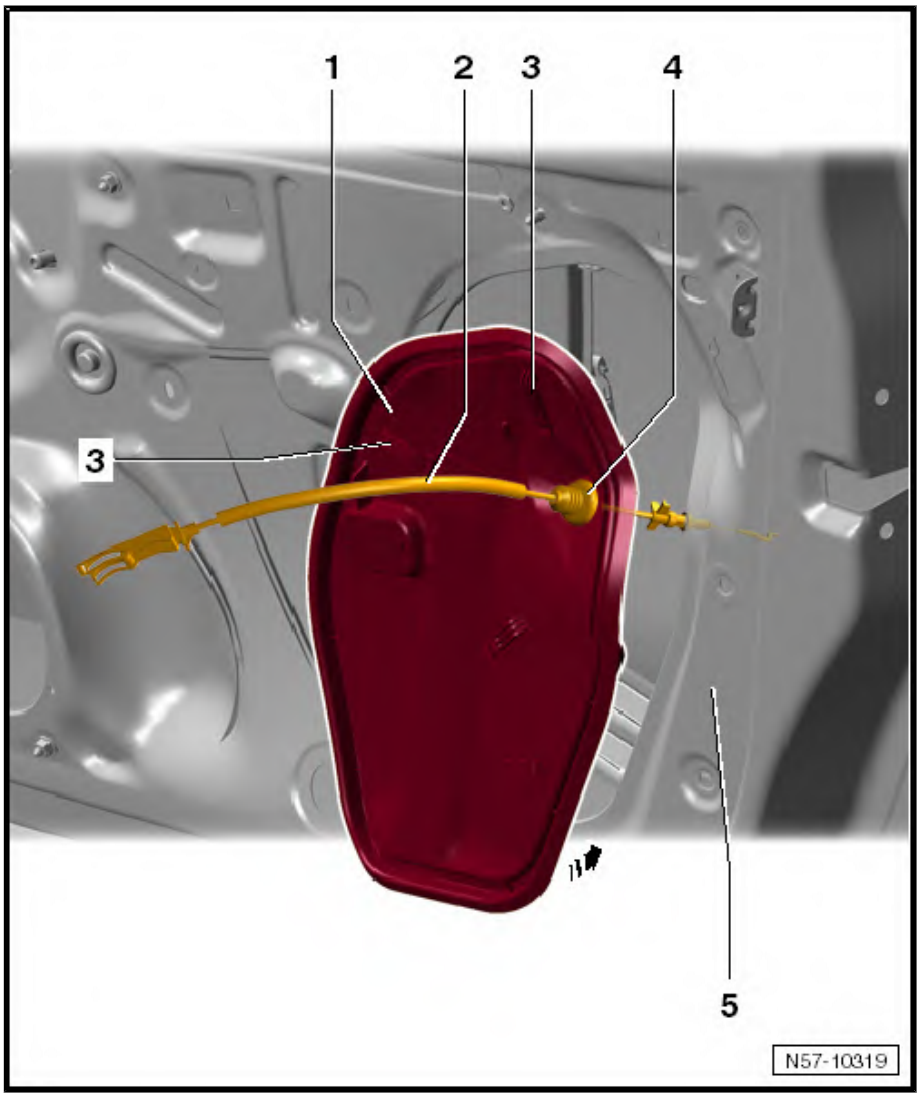
17 - Riveted nuts

18 - Inner window channel strip

❑ Removing and installing ⇒ “2.15 Removing and installing the inner window channel strip”, page 80 .

2.2 Removing and installing the door cover

2.2.1 Removing



– Remove front door trim panel ⇒ “2.1 Removing and installing the front door trim panel”, page 257 .

– Lift off the cover -1- in the bottom area.

– Pull the cover - 1 - downwards and remove it from the door - 5 -.

Note

- *If the following operations are necessary, pull the Bowden cable -2- with the grommet -4- out of the cover -1-.*
- *The cables are slackened in the holders -3-.*

Installing

– The installation occurs in reverse order.

2.2.2 Removing and installing the door retaining strap

Removing

– Remove the loudspeaker.

– Remove the screw - 2 - at the A pillar.

– Remove the screws -3- and take out the door retaining strap -1- through the opening after the loudspeaker.

Installing

– Push the door retaining strap through the opening for the loudspeaker.

– Install screws - 3 -, tightening torque
⇒ “1.1 Assembly overview - door hanger ”, page 45 .

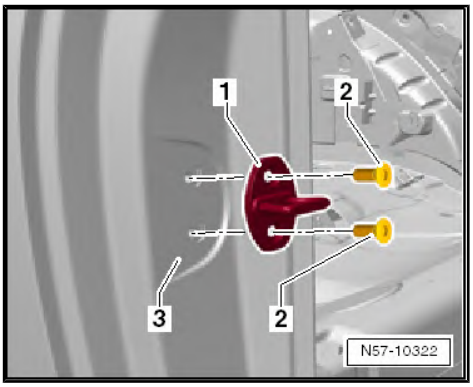
– Install screws - 2 -, tightening torque
⇒ “1.1 Assembly overview - door hanger ”, page 45 .

– Install loudspeaker.

2.2.3 Removing and installing the locking clamp

Removing

– Release screws - 2 - and remove locking clamp - 1 -.

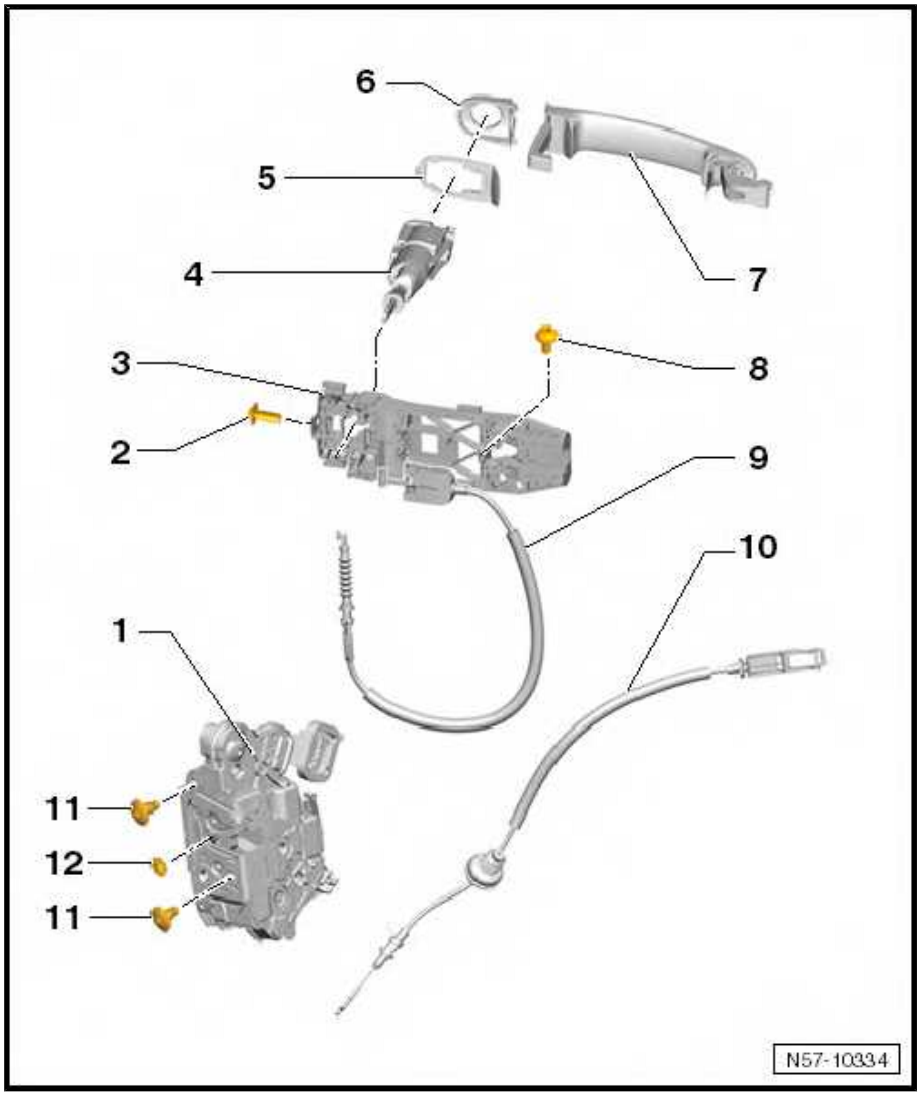


Installing

– Position locking clamp -1- on the B-pillar -3- and tighten the screws -2-, tightening torque - 20 Nm.

– Adjusting the locking clamp
⇒ “1.3.1 Adjusting the locking clamp”, page 50 .

2.3 Door handle and door lock - Summary of components



1 - Door lock

- ❑ Removing and installing ⇒ “2.8 Removing and installing the door lock”, page 65 .

2 - Screw

- ❑ For lock cylinder.
- ❑ Tightening torque - 3.5 Nm.

3 - Clamp

- ❑ Removing and installing ⇒ “2.9 Removing and installing bearing bracket”, page 67 .

4 - Lock cylinder

- ❑ Removing and installing ⇒ “2.5 Removing and installing lock cylinder”, page 57 .
- ❑ A lock cylinder is located only on the driver's door.

5 - Washer

6 - Cap

- ❑ Remove and install with lock cylinder ⇒ “2.4 Removing and installing cap for lock cylinder”, page 57 .
- ❑ Remove and install without lock cylinder ⇒ “2.6 Removing and installing cap (without lock cylinder) ”, page 60 .

7 - Door handle

- ❑ Removing and installing ⇒ “2.7 Removing and installing the door handle”, page 63 .

8 - Screw

- ❑ Tightening torque - 1.5 Nm.
- ❑ The bearing bracket is released from the door by loosening the screw.

9 - Control cable

- ❑ From door lock to bearing bracket.

10 - Control cable

- ❑ From inner door control to lock release.
- ❑ With grommet for feeding through at the cover.

11 - Screw

- ❑ Tightening torque - 20 Nm.

12 - Cap

2.4 Removing and installing cap for lock cylinder

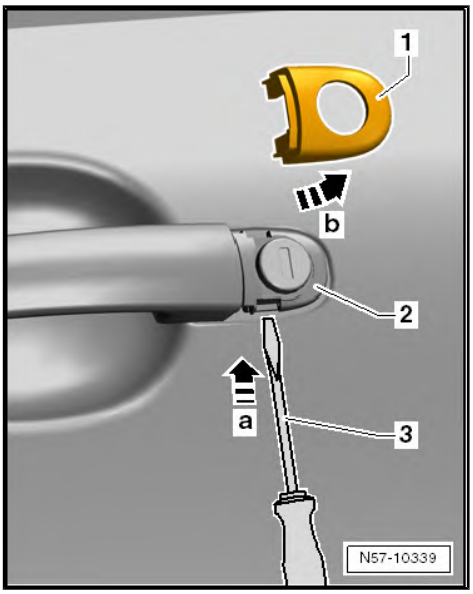
2.4.1 Removing

Note

When removing the cap for the lock cylinder, do not turn or lever the screwdriver.

Carry out the following tasks

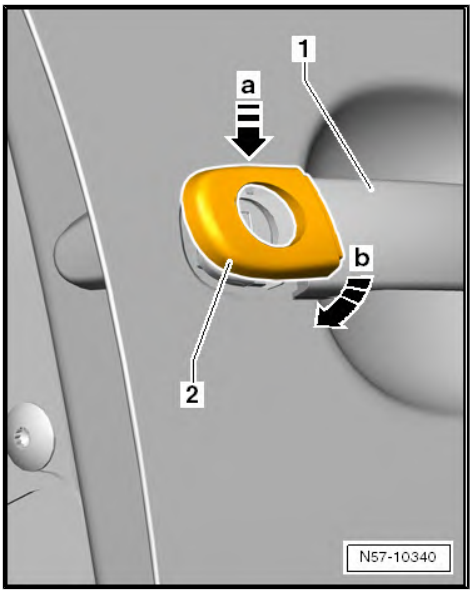
- Detach door handle.
- Press a small screwdriver -3- slightly -arrow a- into the opening on the bottom side of the cap for the lock cylinder.
- Slightly pull off the cap of the lock cylinder -1- , together with the screwdriver, at the bottom side from the door -arrow b-.
- Slide the cap upwards from the lock cylinder.



2.4.2 Installing

Carry out the following tasks

- Remove door handle - 1 -.
- Place the cap of the lock cylinder -2- slightly angled from the top -arrow a- onto the lock cylinder.
- Press the cap of the lock cylinder -2- onto the door -arrow b-, until the cap with the lock cylinder locks into position.

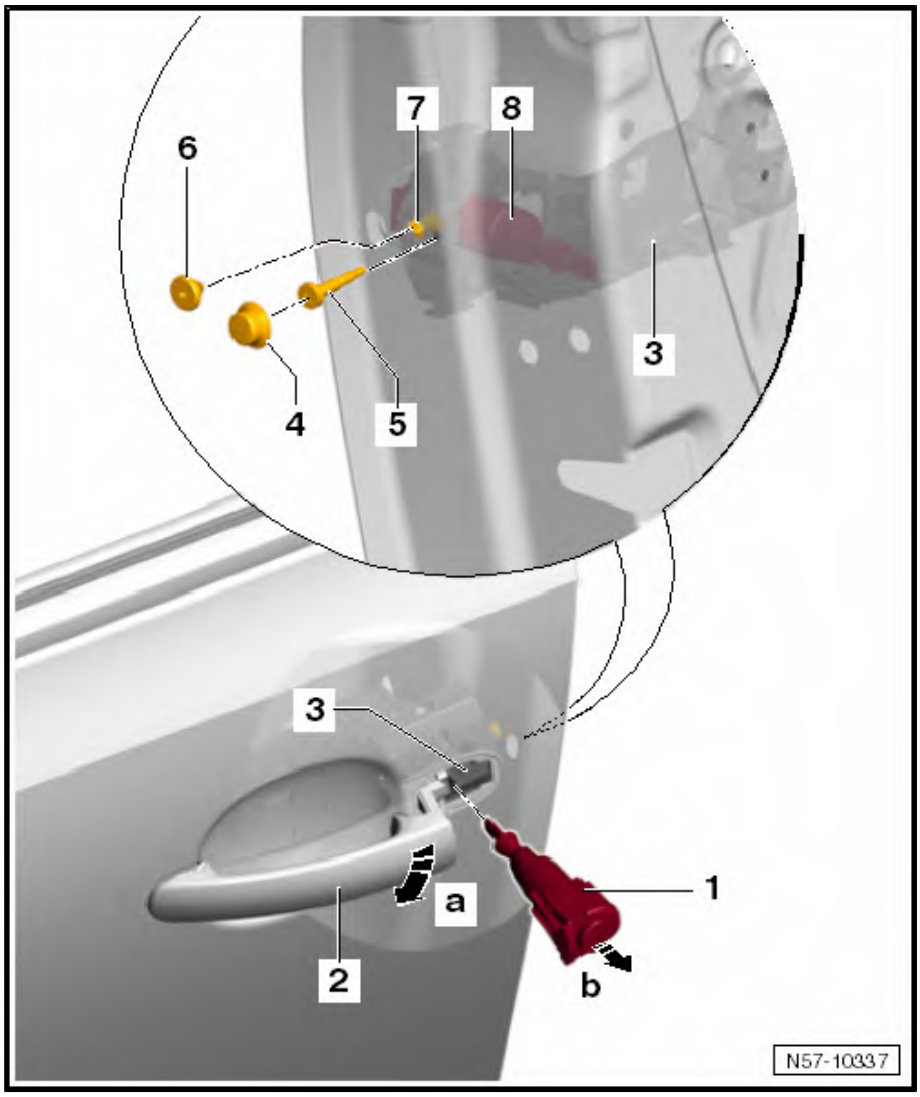


2.5 Removing and installing lock cylinder

Note

A lock cylinder is installed only on the driver's door.

2.5.1 Removing



- The cap for the lock cylinder is removed
  ⇒ “2.4 Removing and installing cap for lock cylinder”, page 57 .

– Lift off the covers -4 and 6-.

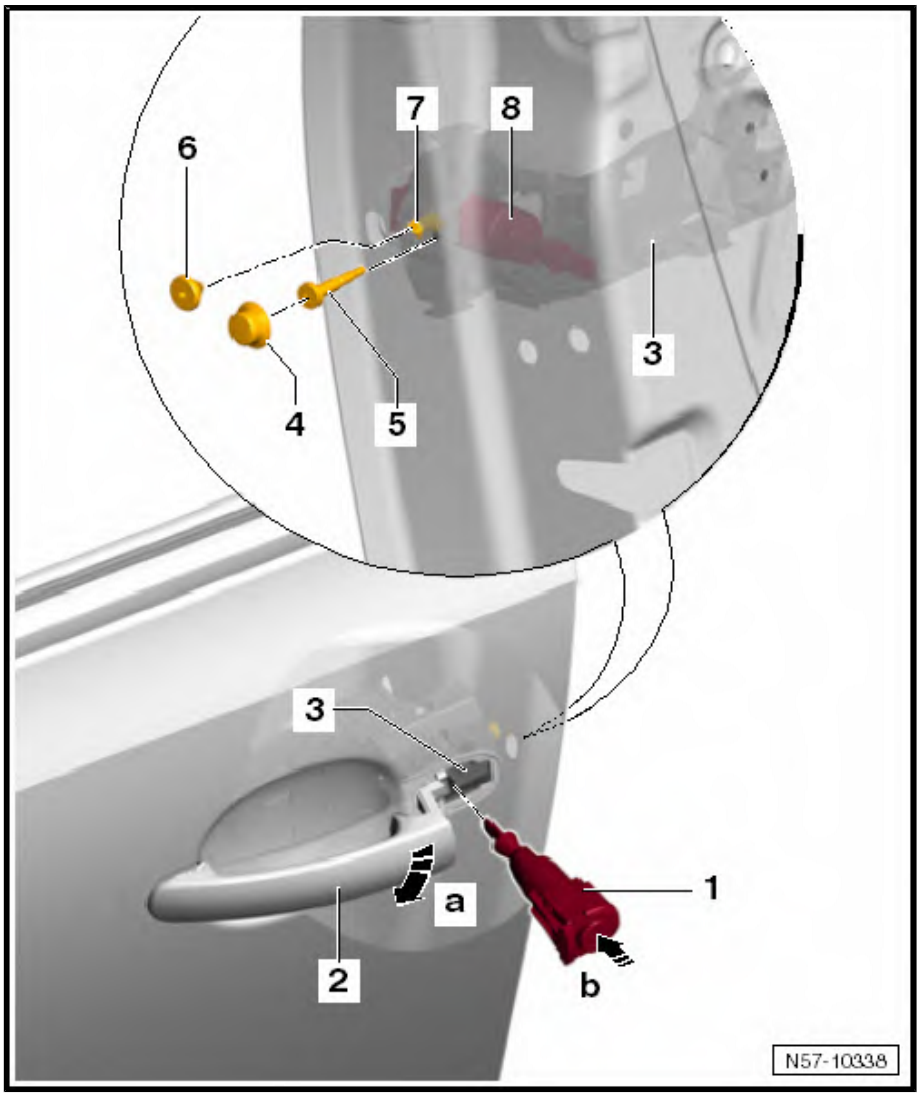
– Unscrew screw -5-.

– Remove the screw until it stops -7- so that it exposes the lock cylinder.

– Remove door handle - 2 -.

– Pull the lock cylinder housing -1- out of the bearing bracket -3- at a right angle -arrow b- to the door.

2.5.2 Installing



– Remove door handle -2- -arrow a-.
– Fit the lock cylinder housing -1- at a right angle -arrow b- into the bearing bracket -3-.
– Screw the screws -5 and 7- into the bearing bracket.
– Tightening torque of screws -5 and 7- (3.5 Nm).

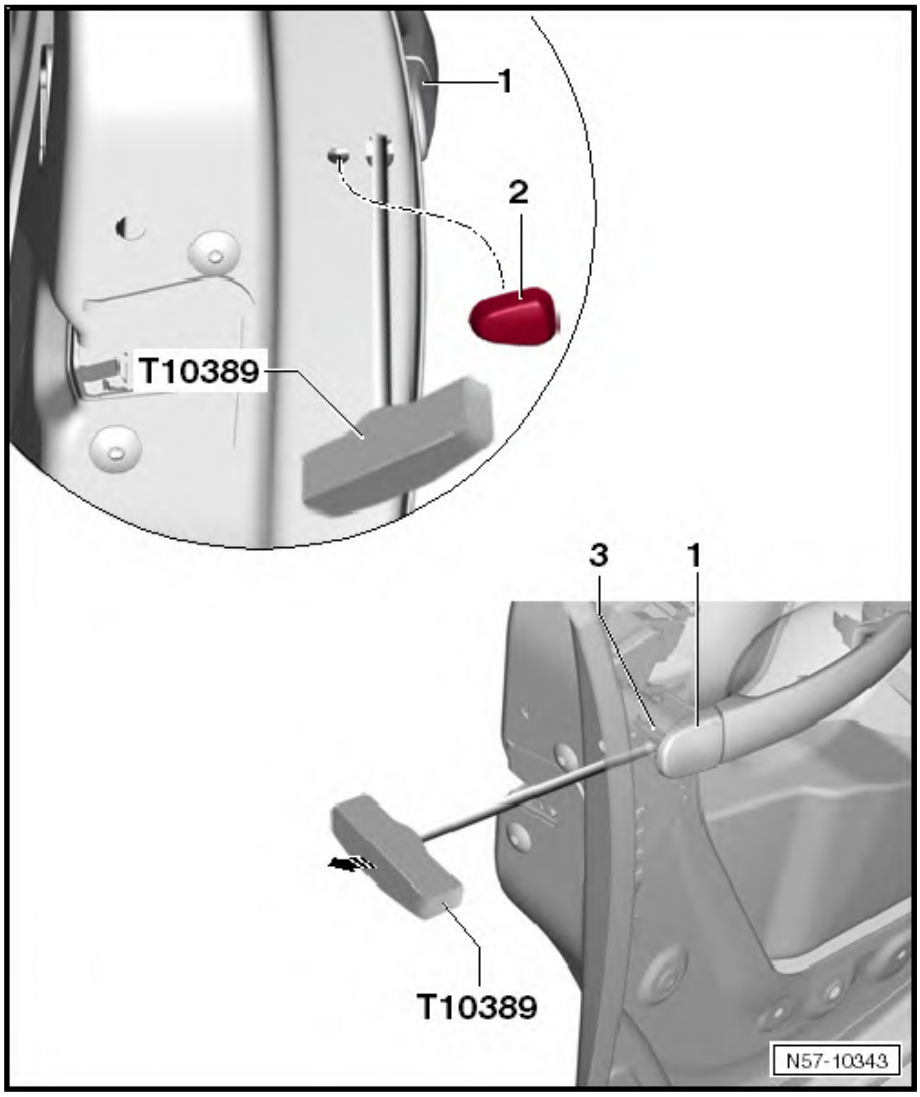
Note

During the assembly the lock cylinder housing must be pressed against the outer door panel.

– Further installation occurs in reverse order.
• Then it is absolutely necessary to perform a functional check when the door is opened.

2.6 Removing and installing cap (without lock cylinder)

2.6.1 Removing

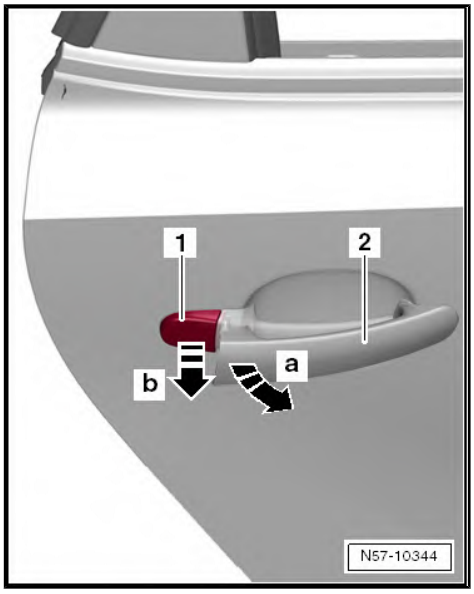


– Remove the plugs -2- of the rear openings.

– Guide the assembly tool - T10389- by approx. 55 mm into the door behind the lock hooks -3- of the bearing bracket.

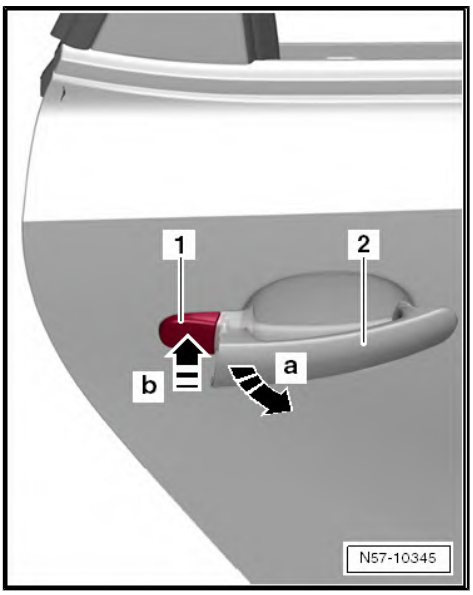
– Pull the assembly tool - T10389- as far towards the rear -arrow-, until the hook unlocks.

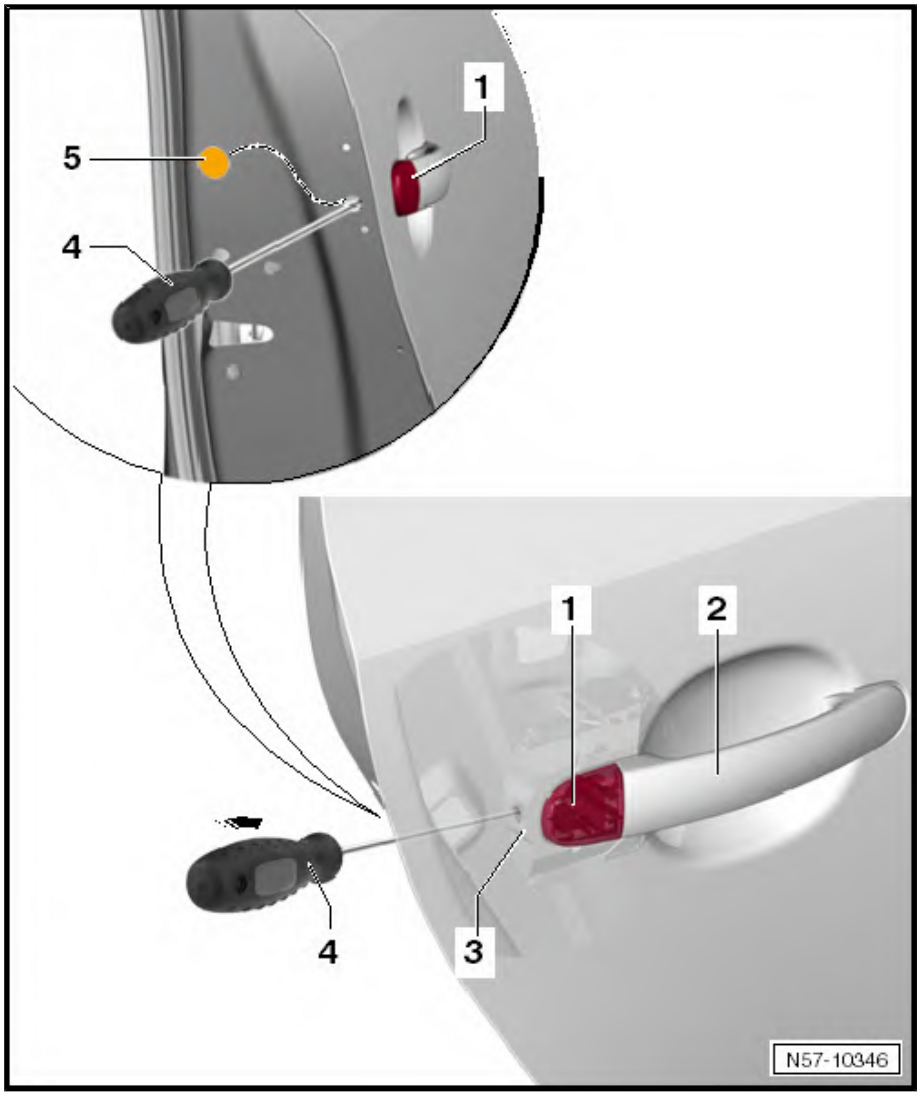
– Detach the door handle -2- in -direction of arrow a- from the door.
– Pull the cap - 1 - out of the bearing bracket -arrow b-.



2.6.2 Installing

– Detach the door handle -2- in -direction of arrow a- from the door.
– Push the cap -1- into the bearing bracket -arrow b-.

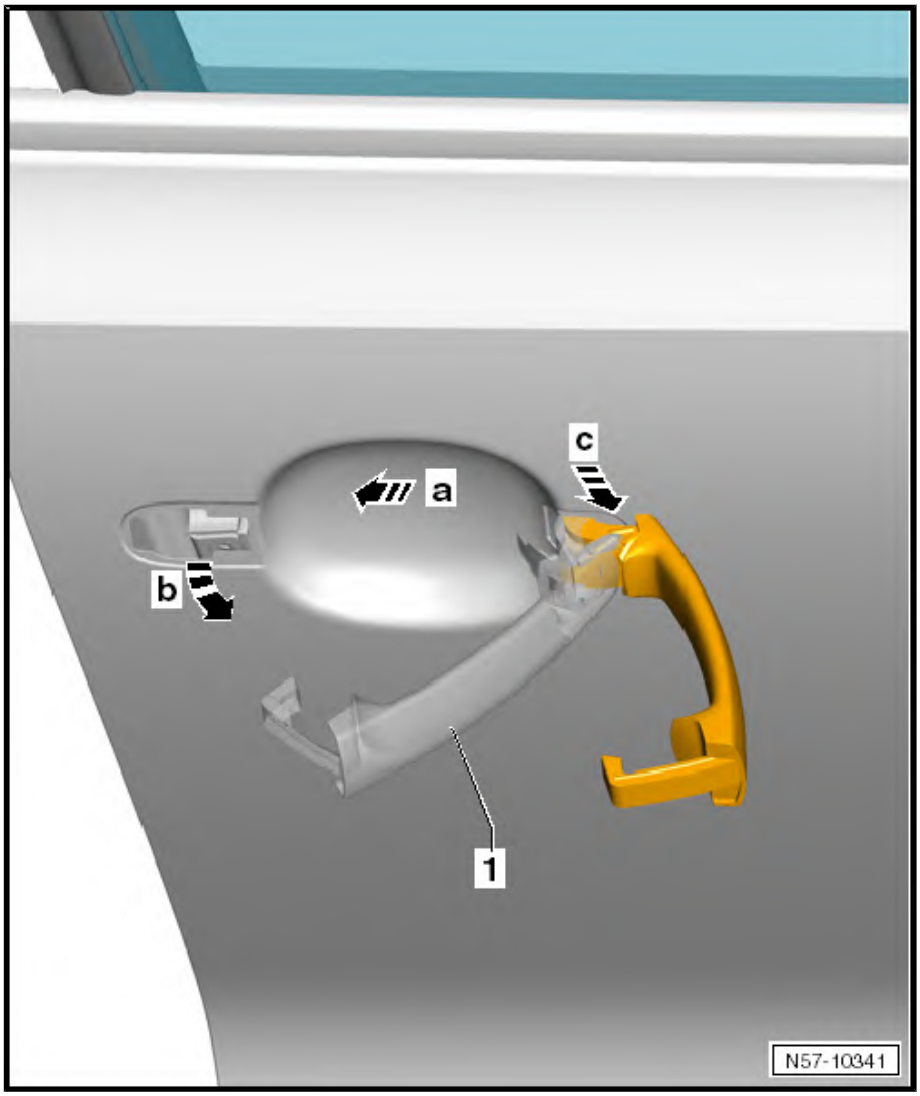




– Guide the screwdriver -4- at the lock hook -3- of the bearing bracket.
– Press the cap -1- on the door.
– Press in the screwdriver -arrow- until the hook locks.
– Attach plug -5-.

2.7 Removing and installing the door handle

2.7.1 Removing



Volkswagen Technical Site: http://vwts.ru http://vwts.info

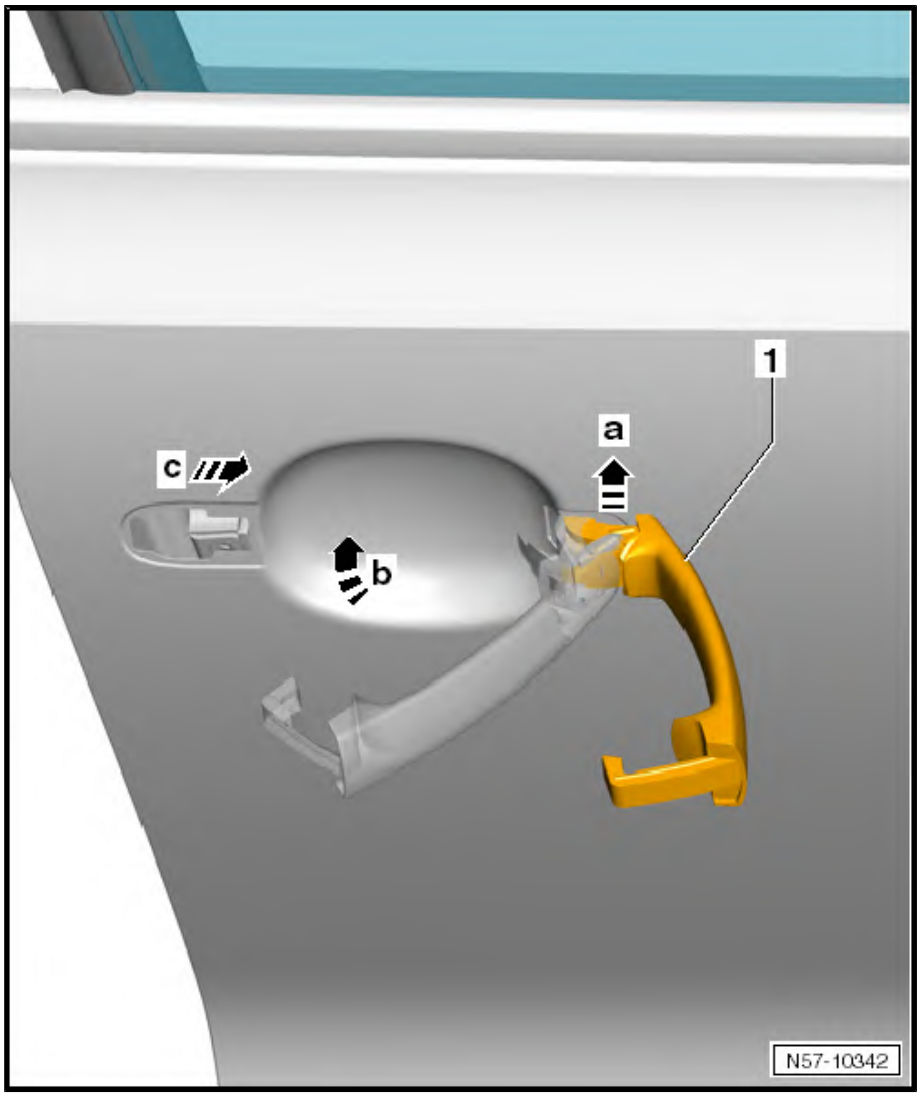
– Remove the lock cylinder
⇒ “2.5 Removing and installing lock cylinder”, page 57 or the cap
⇒ “2.6 Removing and installing cap (without lock cylinder) ”, page 60 .

– Pull the door handle -1- slightly towards the rear -arrow a- out of the support of the bearing bracket.

– Swivel the door handle in -direction of arrow b-.

– Remove the door handle at a right angle -arrow a- out of the bearing bracket -2-.

2.7.2 Installing



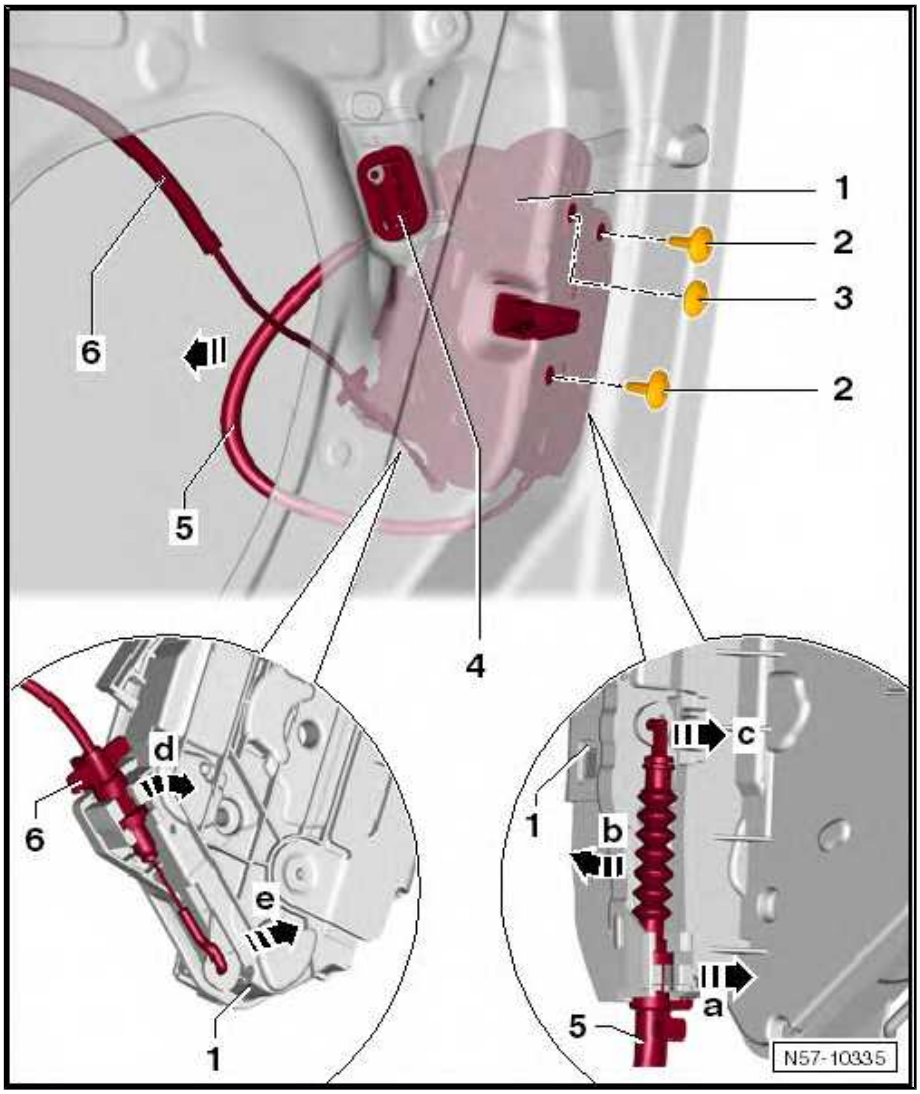
– Fit the door handle -1- at a right angle -arrow b- into the bearing bracket.
– Swivel the door handle -1- into the door -arrow b-.
– Forcefully press the door handle forwards -arrow c- into the support of the bearing bracket.

Install the lock cylinder
⇒ “2.5 Removing and installing lock cylinder”, page 57 or the cap
⇒ “2.6 Removing and installing cap (without lock cylinder) ”, page 60 .

• Then it is absolutely necessary to perform a functional check when the door is opened.

2.8 Removing and installing the door lock

2.8.1 Removing



– Remove front door trim panel
⇒ “2 Door and side trim panels”, page 257 .
– Remove the cover
⇒ “2.2 Removing and installing the door cover”, page 53 .
– Unclip cap - 3 -.
– Unplug connector -4-.
– Remove lock cylinder
⇒ “2.5 Removing and installing lock cylinder”, page 57 .
– Unscrew screws -2-.
– Remove the lock -1- from the door.

Note

If it is necessary for the following operations, it is possible to slacken the Bowden cable.

Slacken Bowden cable to bearing bracket

– Twist the Bowden cable -5- by 45° and remove it from the bracket -arrow a-.

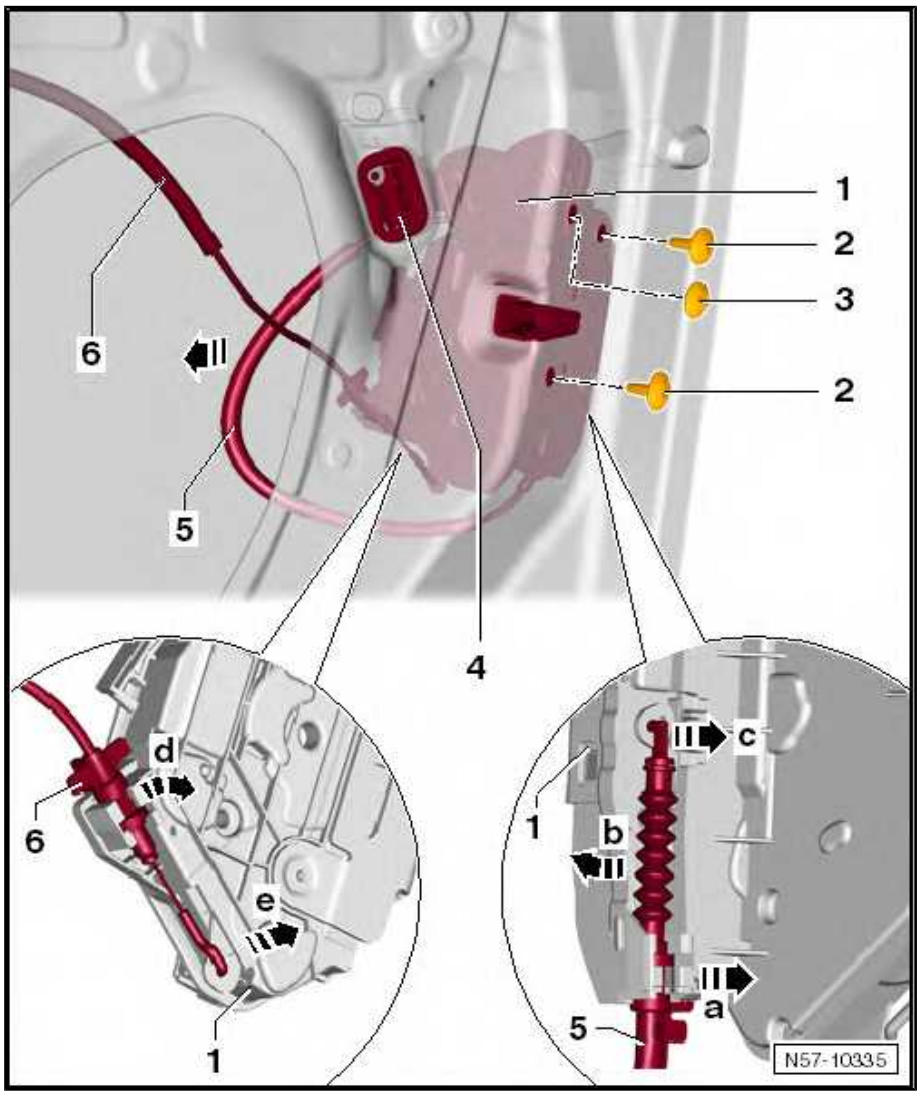
– Turn the Bowden cable - arrow b -until it can be guided out of the lug in the door lock (Pos. 1) - arrow c -.

Slacken the Bowden cable to the inner door control:

– Twist the Bowden cable -6- by 45° and remove it from the bracket.

– Turn the Bowden cable -arrow d- until it can be guided out of the lug in the door lock (Pos.1) -arrow e-.

2.8.2 Installing



Installing

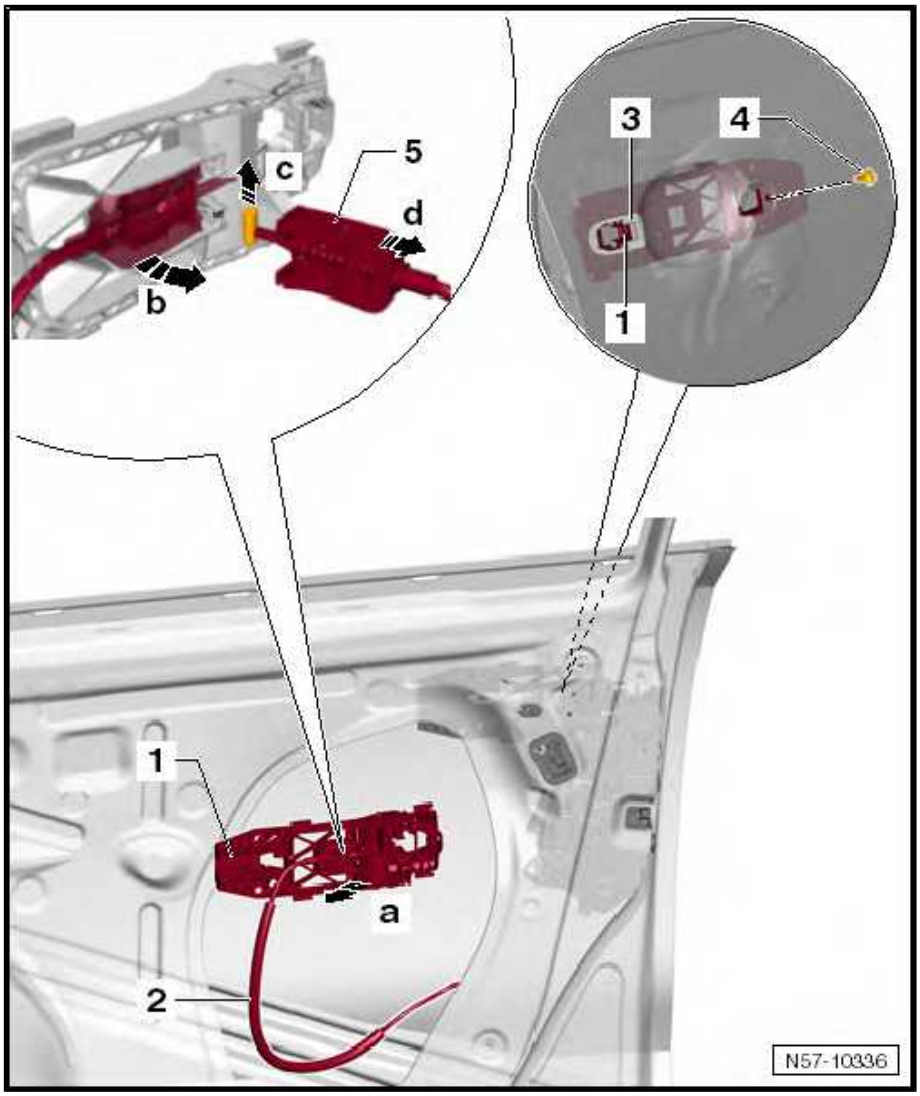
– The installation occurs in reverse order.

– Tightening torque of screw (Pos. 2) - 20 Nm.

It is absolutely necessary to perform a functional check because the door cannot be opened if the adjustment of the Bowden cables is not accurate and if they are not correctly locked.

2.9 Removing and installing bearing bracket

2.9.1 Removing



– Remove front door trim panel
⇒ “2 Door and side trim panels”, page 257 .

– Remove the cover
⇒ “2.2 Removing and installing the door cover”, page 53 .

– Remove the lock cylinder
⇒ “2.5 Removing and installing lock cylinder”, page 57 or the cap
⇒ “2.6 Removing and installing cap (without lock cylinder) ”, page 60 .

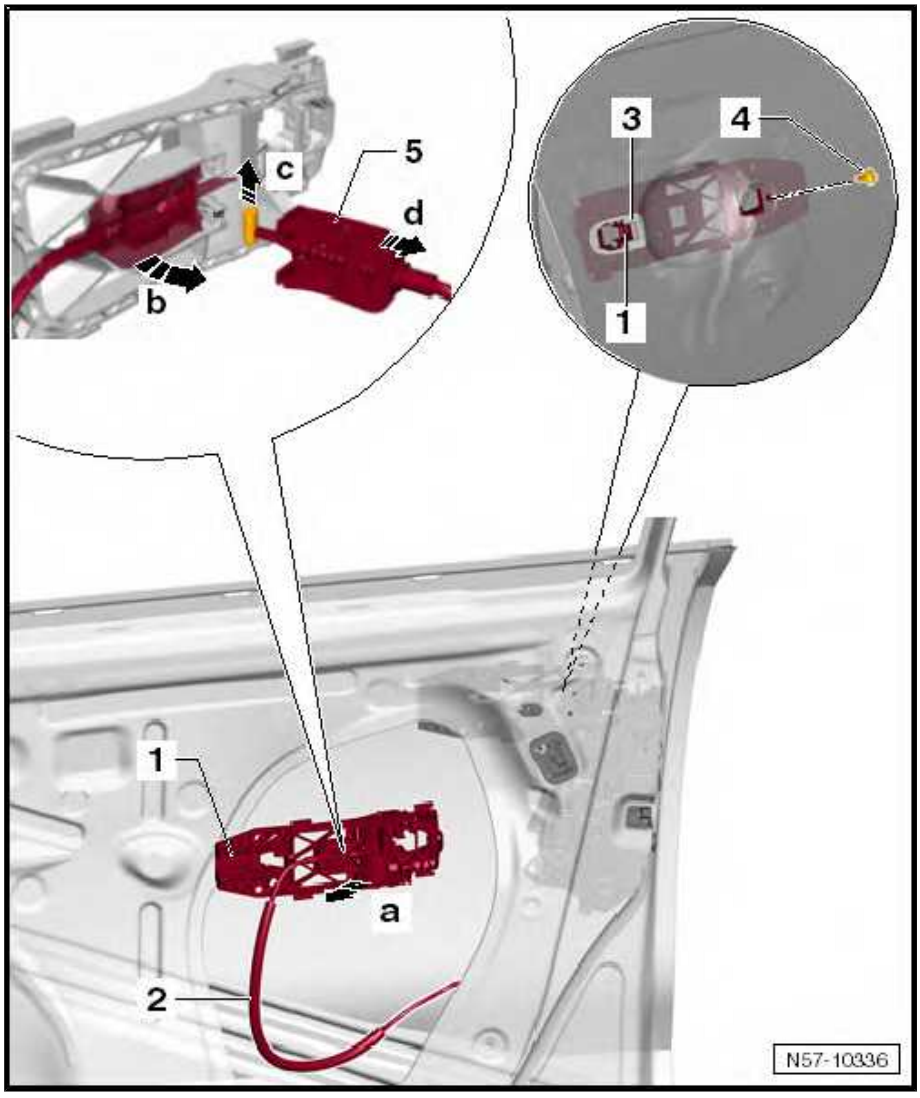
– Removing the door handle
⇒ “2.7 Removing and installing the door handle”, page 63 .

– Release screw - 4 - and remove gasket - 3 -.
– Take the bearing bracket -1- out of the door -arrow a-.

Slacken Bowden cable

– Unlock the bracket -5- and swivel out of the support in the bearing bracket -arrow b-.
– Lift the bolt of the control cable out of the support -arrow c-.
– Take the control cable -2- out of the bearing bracket (Pos.1) -arrow d-.

2.9.2 Installing



The installation occurs in reverse order.

– Install screw -2-, tightening torque 1.5 Nm.

2.10 Front door window

2.10.1 Summary of components

1 - Door window

- ❑ Removing and installing ⇒ “2.11 Removing and installing door window”, page 70 .

2 - Window lifter

- ❑ Removing and installing ⇒ “2.13 Remove and install window lifter”, page 76 .

3 - Nut

- ❑ Tightening torque - 18 Nm.

4 - Door

5 - Window lifter motor

- ❑ Removing and installing ⇒ “2.12 Removing and installing window lifter motor”, page 74 .

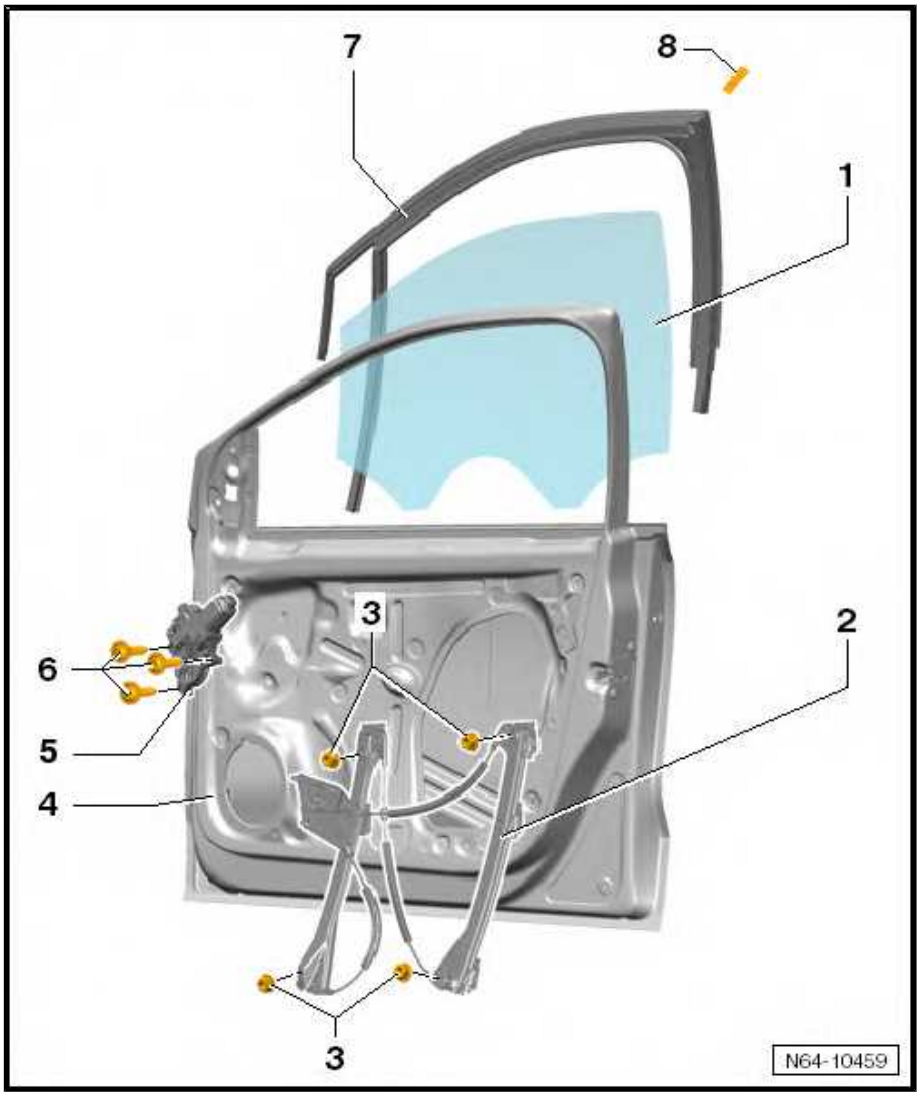
6 - Screw

- ❑ Tightening torque - 3 Nm.

7 - Window run

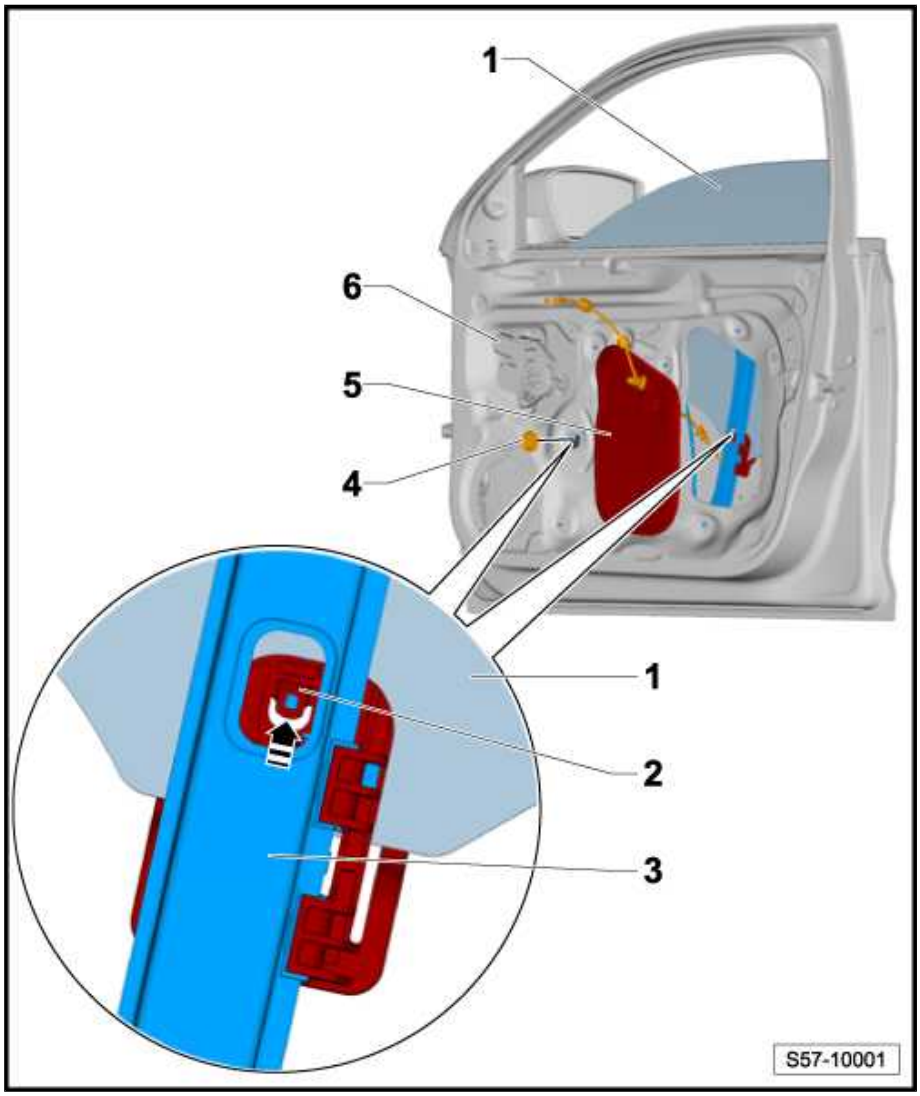
- ❑ Fitted on the flange.
- ❑ Removing and installing ⇒ “2.14 Removing and installing the window run”, page 77 .

8 - Retaining clip



2.11 Removing and installing door window

2.11.1 Removing



– Remove front door trim panel
⇒ “2.1 Removing and installing the front door trim panel”, page 257 .

– Release cap - 4 -.

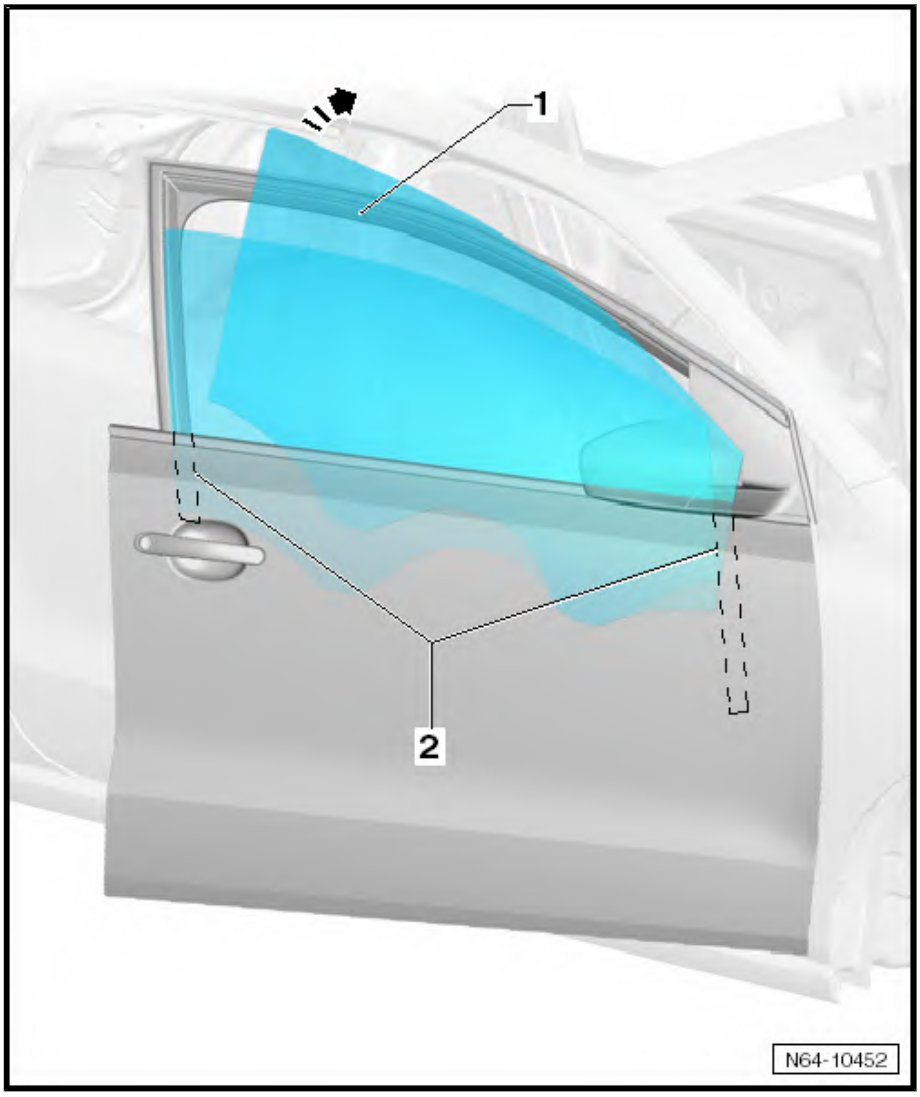
– Remove cover -5-
⇒ “2.2 Removing and installing the door cover”, page 53 .

– Lower the door window - 1 - so that the catches - 2 - are visible in the openings on the impellers of the runners - 3 -.

– Press the catch at the point of the -arrow- towards the inside and thereby unlock the door window - 2 - using for example a screwdriver. Perform the same at the second catch.

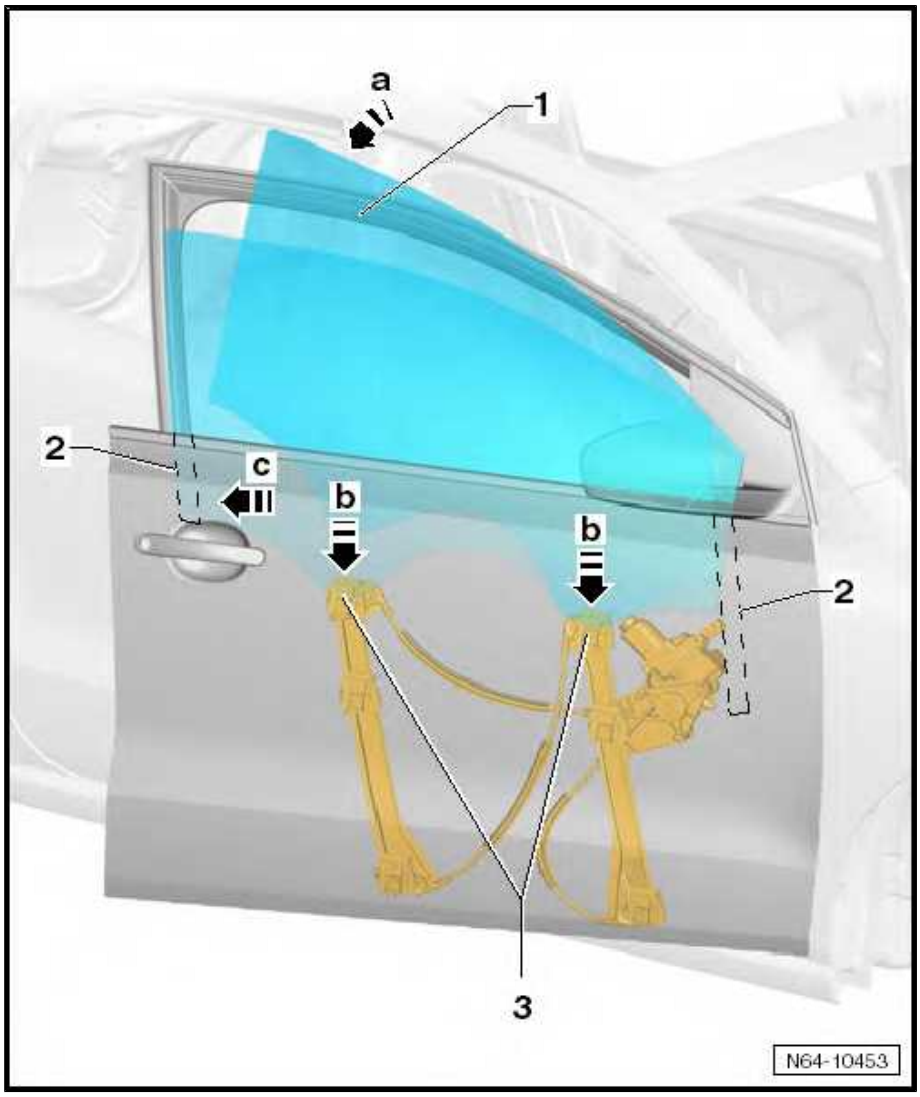
Note

- *If this operation cannot be performed due to a failure at the power-window lifter, remove the motor ⇒ "2.12 Removing and installing window lifter motor", page 74 (depending upon vehicle equipment).*
- *Then the door window can be pushed to the required working height.*



– Lift up the door pane - 1 - at the rear and swivel it forwards out of the window run - 2 - in - direction of arrow -.

2.11.2 Installing

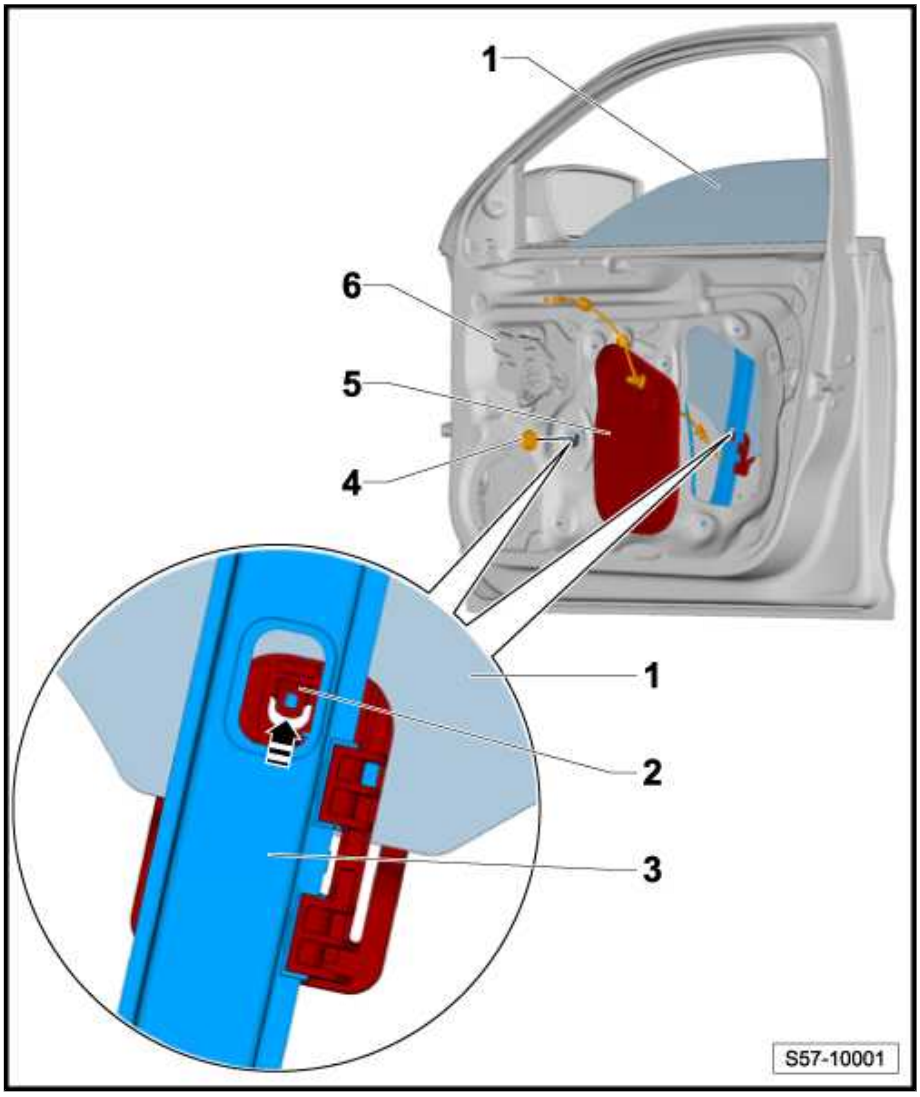


– Insert the door window - 1 - into the window run - 2 - in - direction of arrow a -.

Note

Ensure that the door window is correctly inserted in the window run.

– Guide the door window pressureless into the clamping jaws -arrow b-.
– Align the door window to the window frame -arrow c-.

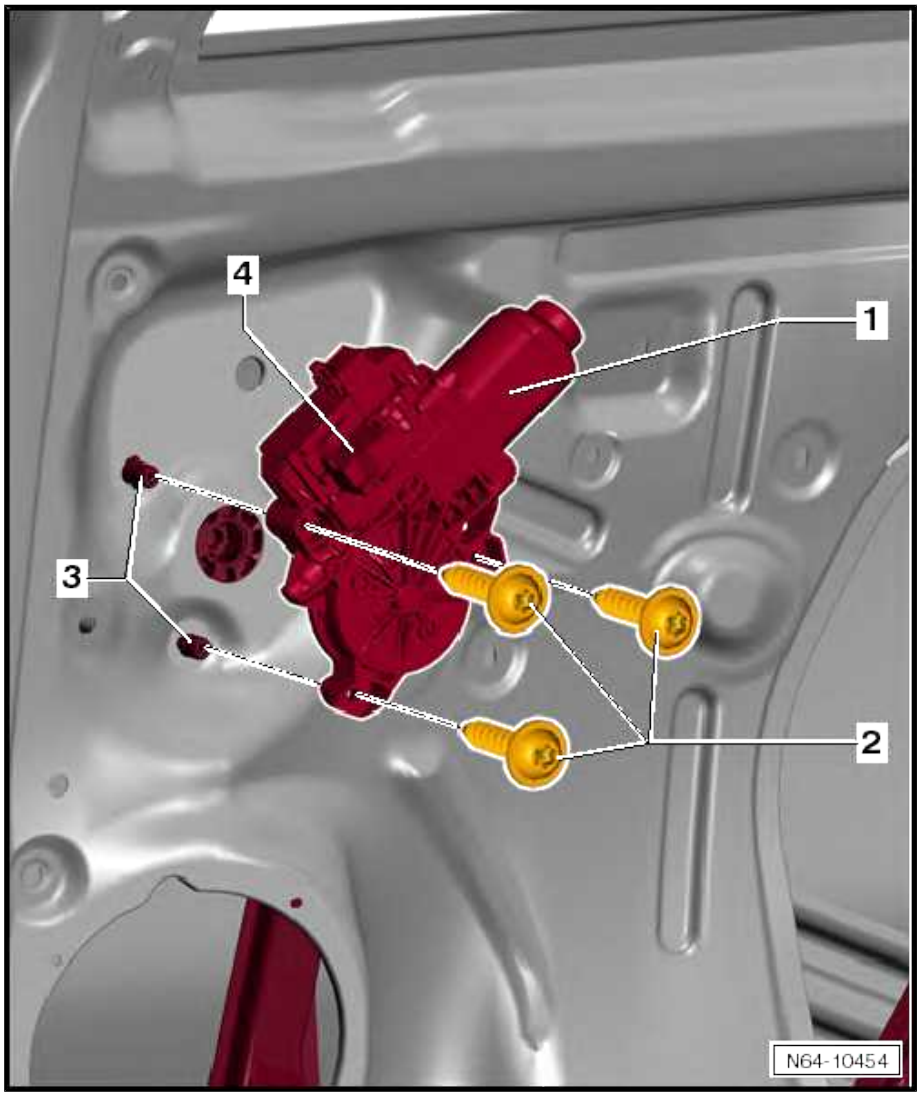


– Apply gentle pressure to both sides of the door window while pressing evenly into the catches until it audibly locks into place.
– Subsequently proceed in reverse order to removing.

• A functional check must be performed before installing the door trim panel.

2.12 Removing and installing window lifter motor

2.12.1 Removing

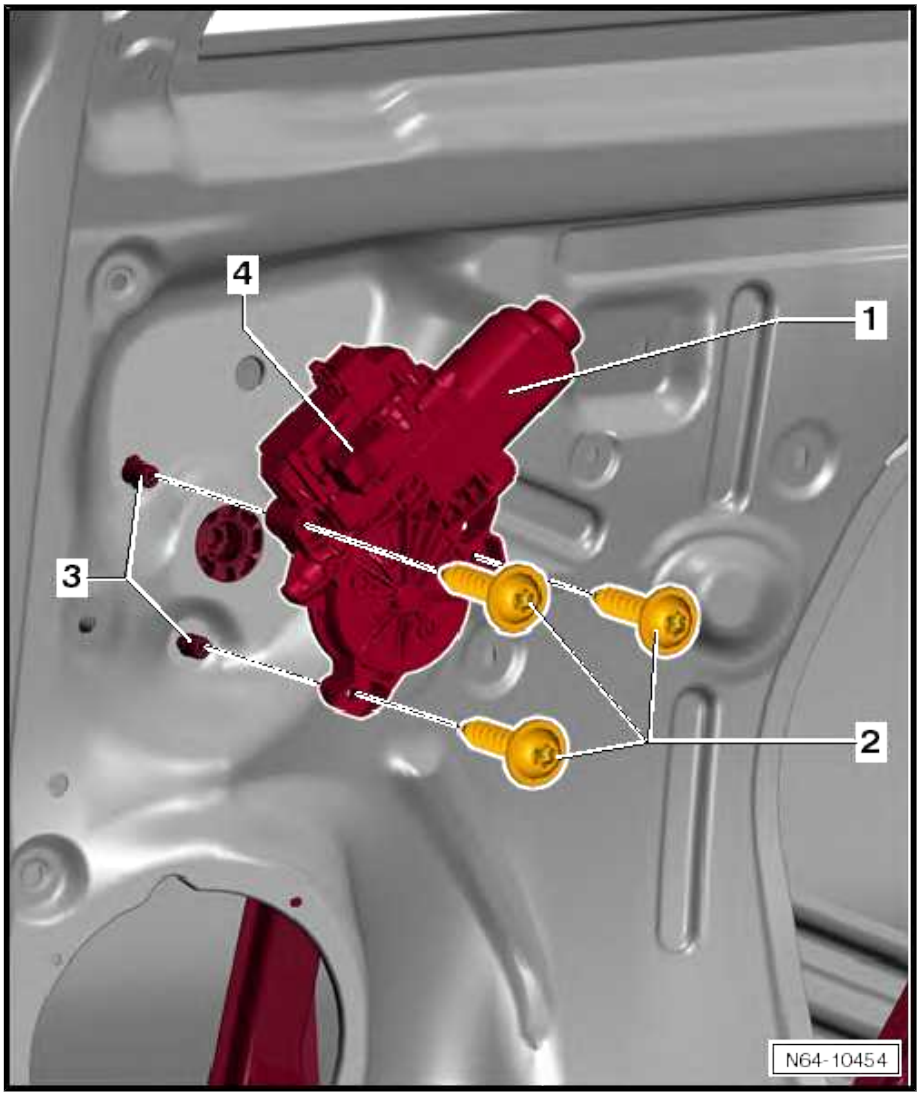


– Remove front door trim panel
⇒ “2.1 Removing and installing the front door trim panel”, page 257 .
– Secure the door window with adhesive tape so that it does not slide off.
– Unplug connector -4-.
– Unscrew screws -2-.
– Remove the window lifter motor with the control unit - 1 - from the supports - 3 -.

2.12.2 Installing

WARNING

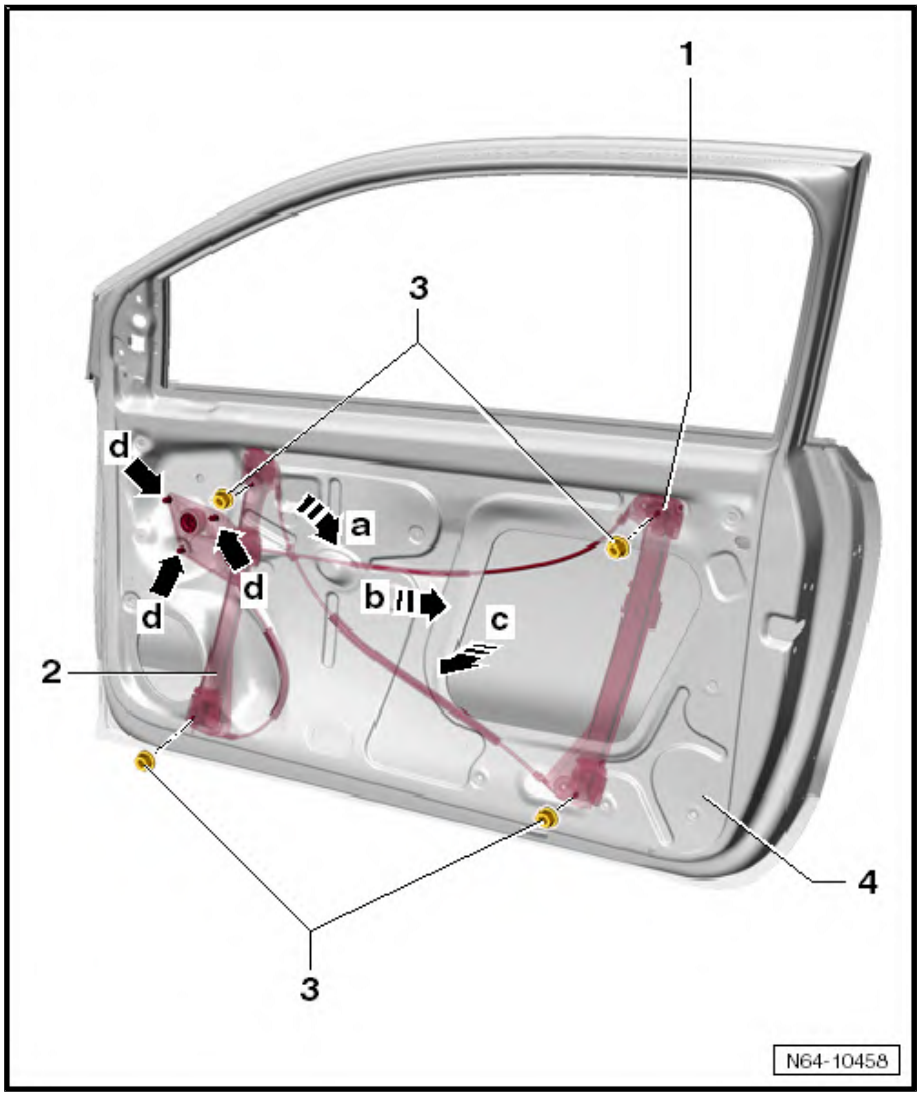
On a new window lifter motor (door control unit), the auxiliary functions must be coded.



– Fit the window lifter motor - 1 - into the supports - 3 -. Raise the door window and then lower it so that the serration can slide in better between the motor and the cable drum.
– Install screws -2-, 3 Nm.
– Secure the plug connection - 4 -.
– Code the new window lifter motor.
– The further work procedure occurs in the reverse order to the removal.

2.13 Remove and install window lifter

2.13.1 Removing



– Remove front door trim panel
⇒ “2.1 Removing and installing the front door trim panel”, page 257 .

– Remove door window
⇒ “2.11 Removing and installing door window”, page 70 .

– Remove window lifter motor
⇒ “2.12 Removing and installing window lifter motor”, page 74 .

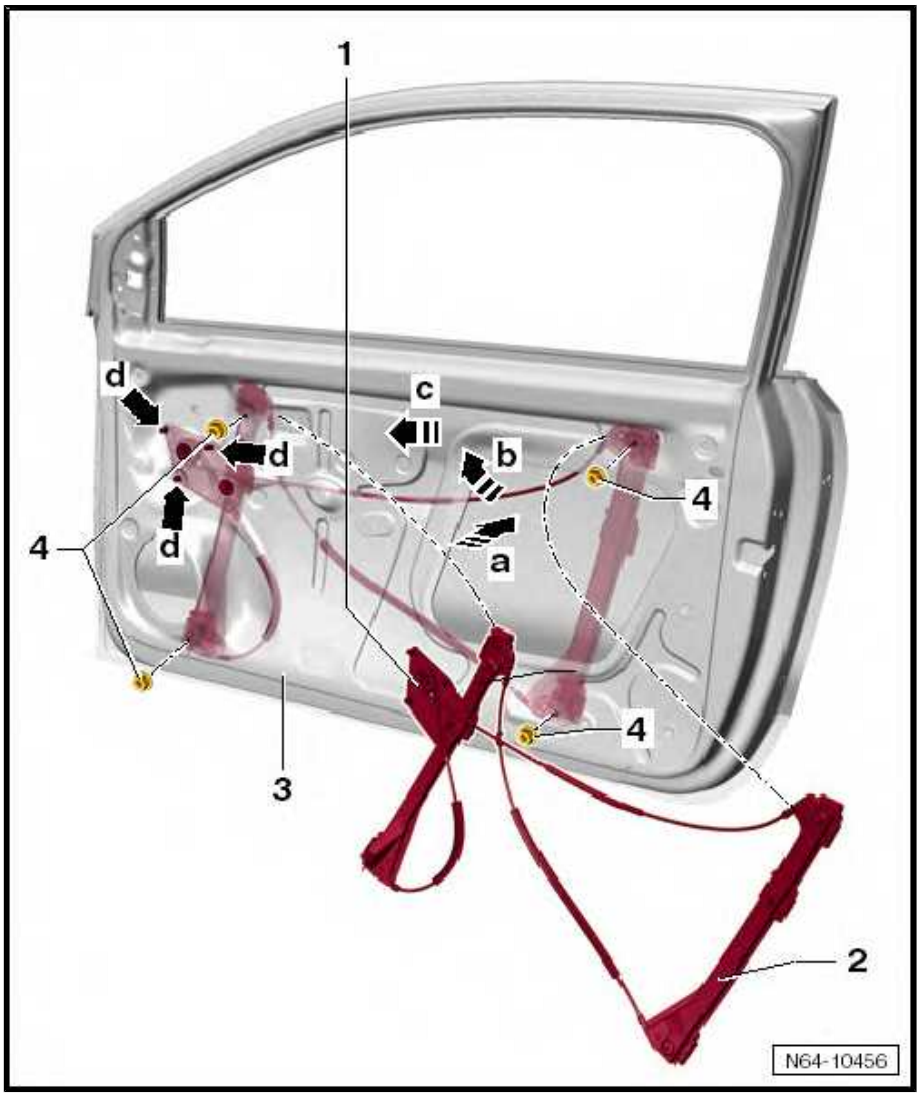
– Unscrew nuts - 3 -.

– Unlock the catches of the hoisting drum -arrows d- and fit them into the door.

– Slide the window lifter -1- into the door and slightly turn it in -direction of arrow a-.

– Remove the window lifter through the door cutout -arrow b- and -arrow c-.

2.13.2 Installing



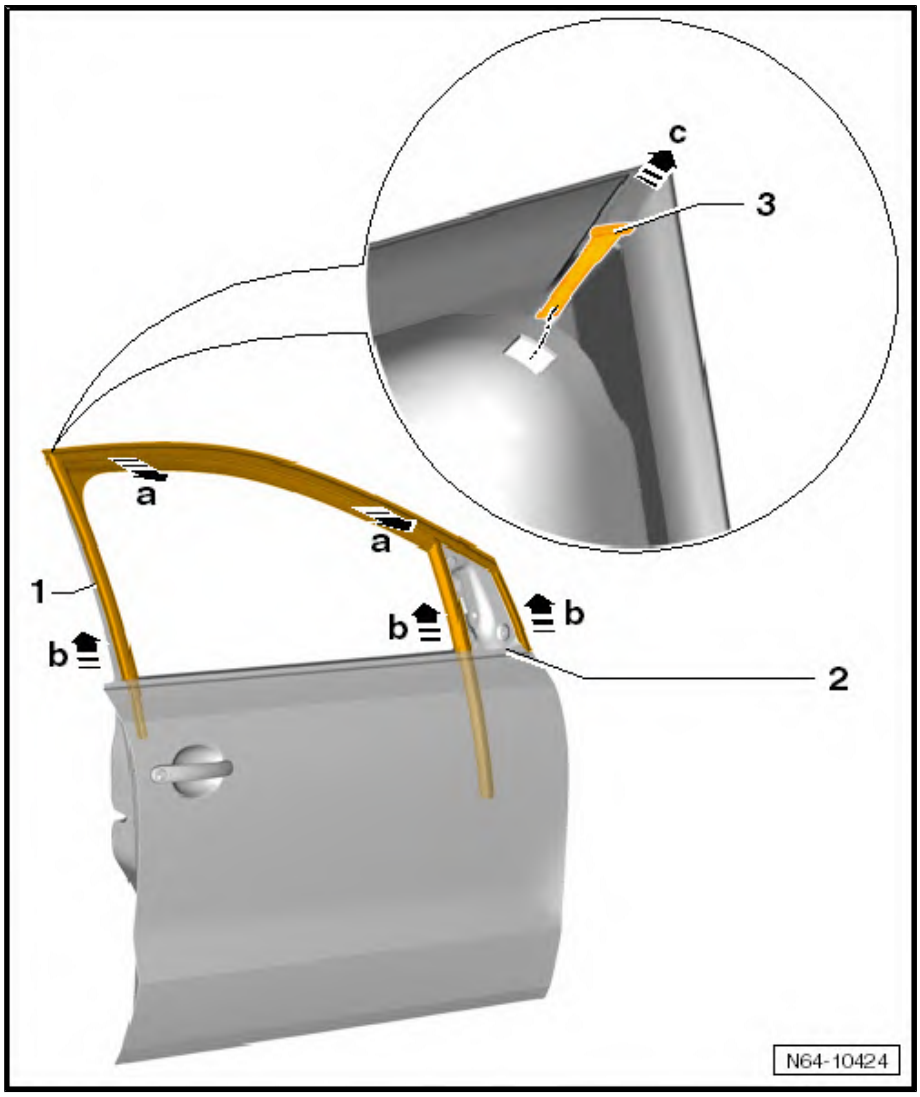
– Insert the window lifter -2- through the door cutout -arrow a-.
– Put the window lifter in its fitting position -arrow b-.
– Insert the window lifter thread through the door openings -arrow c- and tighten the nuts -4-. Tightening torque - 8 Nm.
– Press the hoisting drum -1- through the holes in the door until the catch hooks -arrow d- lock.

2.14 Removing and installing the window run

Note

Do not bend the window seal while removing!

2.14.1 Removing



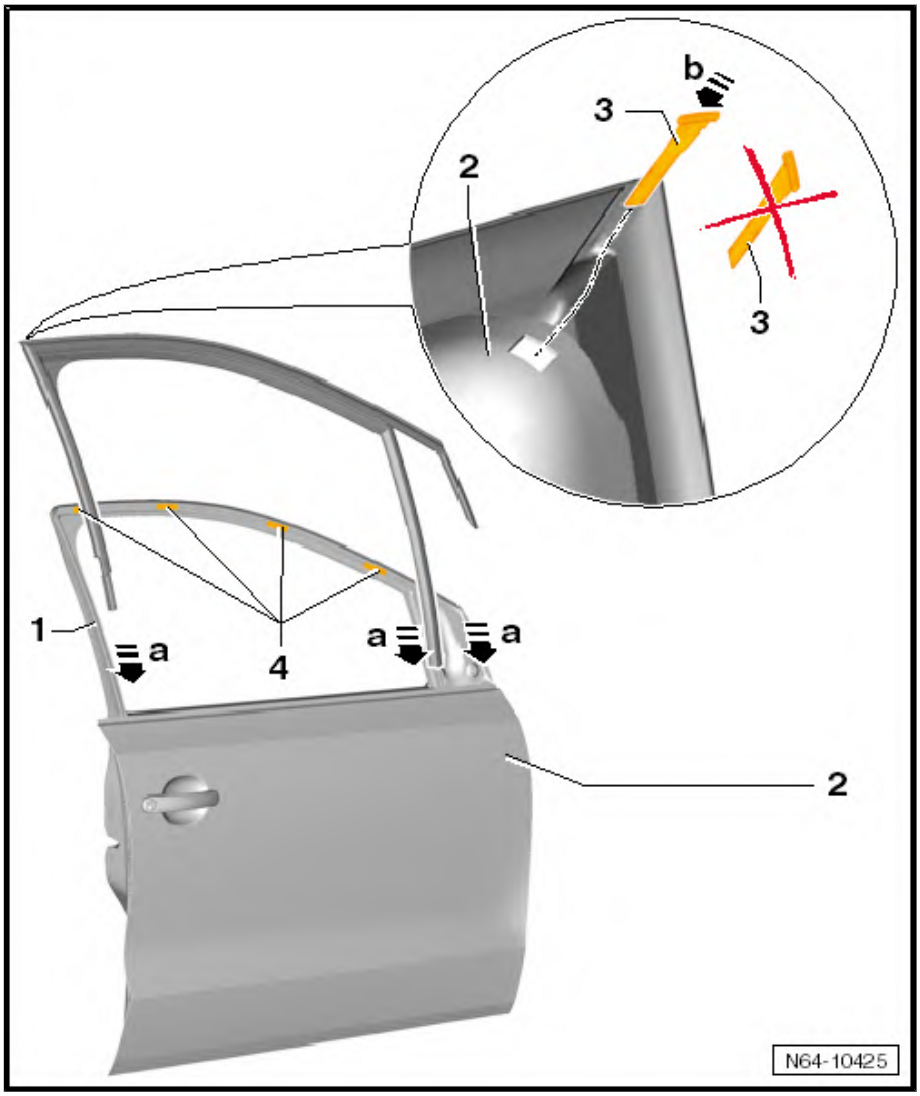
The exterior mirror and the window channel strip are removed.

– Pull out the retaining clip (Pos. 3) - arrow c -.
– Push away the sealing lip of the window run from the inside out of the door flange.
– Detach the window run -1- evenly all around -arrows a- from the door flange -2-, starting in the rear area.
– Pull the window run -1- out of the supports -arrows b-.

2.14.2 Installing

Note

Before assembly the gasket contact surfaces must be coated with soapy water so that they can be moved easily and positioned on the flanges more accurately.



- Mask off the openings -4- below the window guide with fabric adhesive tape.
- Dimensions of adhesive: height = approx. 10 mm, width = approx. 40 mm.
- Slide the window run into the supports -arrows a-.
- Press the window run evenly all around against the door flange -2-.
- Press the sealing lip of the door run from the inside against the door flange.
- Push in the retaining clip (Pos. 3) - arrow b -.

Note

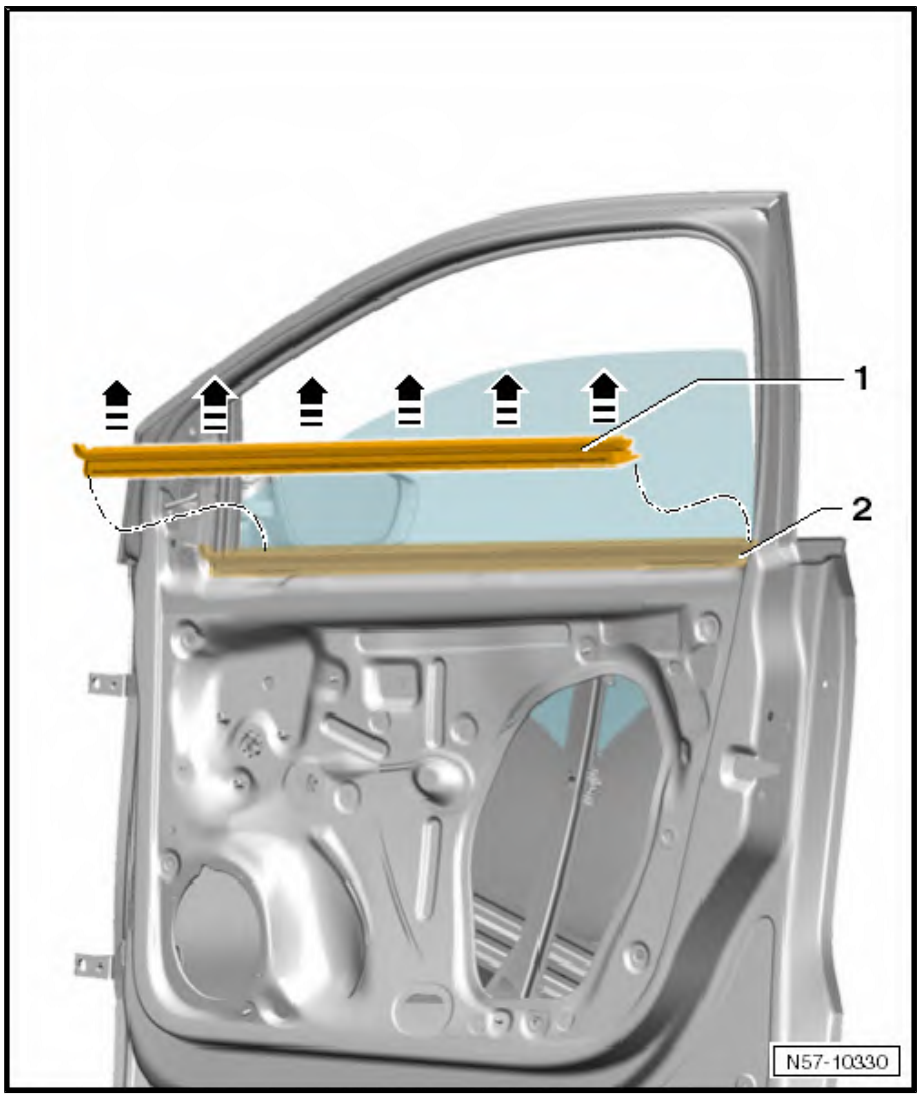
- *The chamfer of the retaining clips must point to the inside of the vehicle.*
- *If the chamfer of the retaining clips points to the outside of the vehicle, the -crossed-out red colour-, then the retaining clip must be turned around.*

- A functional check must be performed before installing the door trim panel.

Note

Pay attention to evenly fitting the window run when installing it (wind noise).

2.15 Removing and installing the inner window channel strip



Removing

– Remove front door trim panel
⇒ “2.1 Removing and installing the front door trim panel”, page 257 .

– Remove gasket -1- evenly -arrows- without bending the flange -2-.

Installing

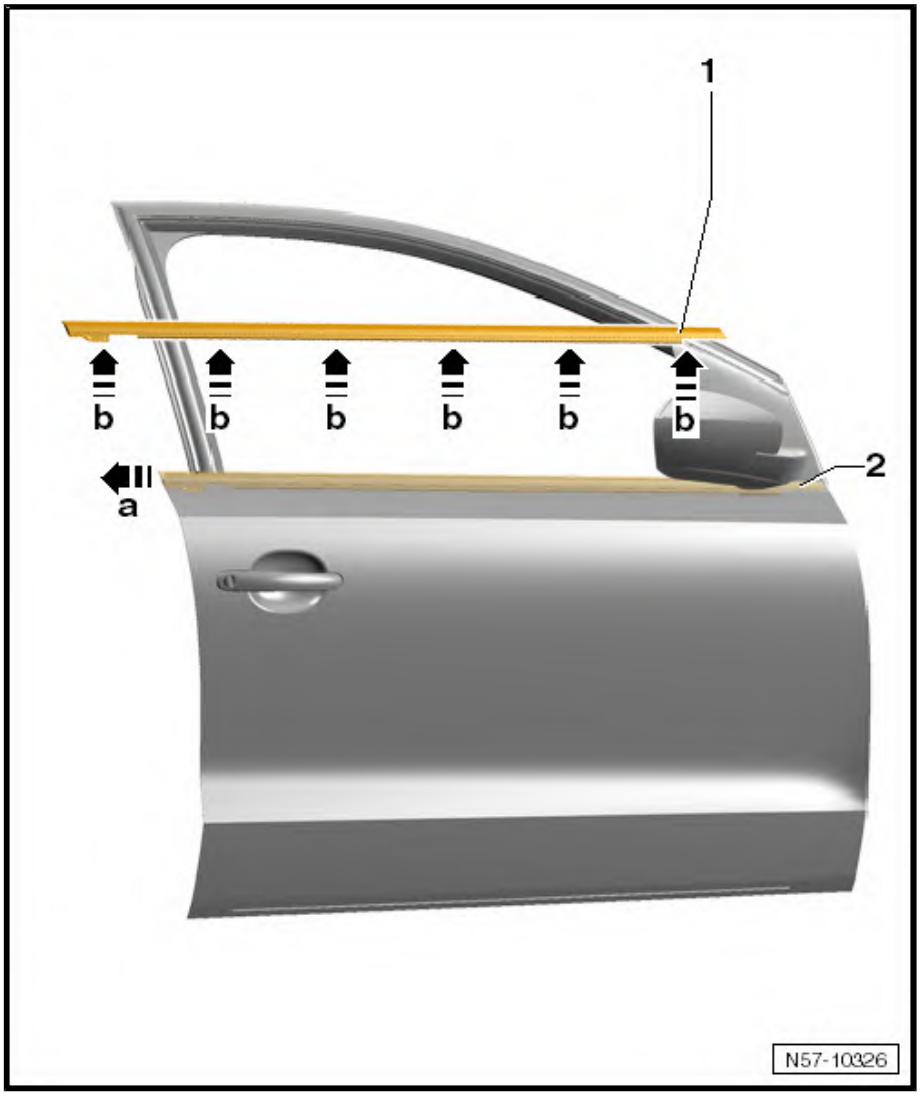
Press the window channel strip - 1 - by hand evenly onto the flange - 2 -.

2.16 Removing and installing the outer window channel strip

2.16.1 Removing

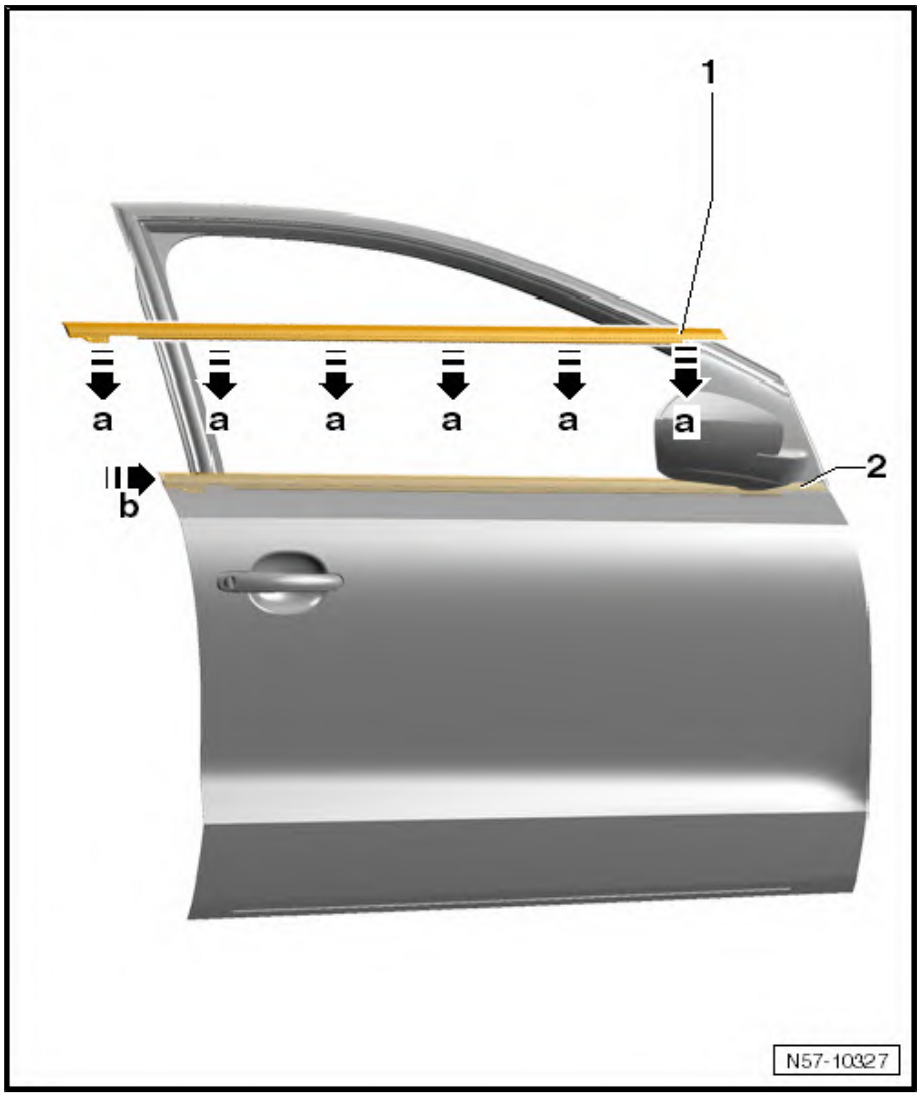
Note

- *The core of the seal consists of a metal insert.*
- *If it is bent, the seal can no longer be straightened. It remains "warped".*
- *Therefore the seal must be fitted on uniformly and without bending it.*



– Remove the seal -1- uniformly -arrows b- out of the door -2- up to the exterior mirror.
– Pull out the seal from underneath the exterior mirror -arrow a-.

2.16.2 Installing



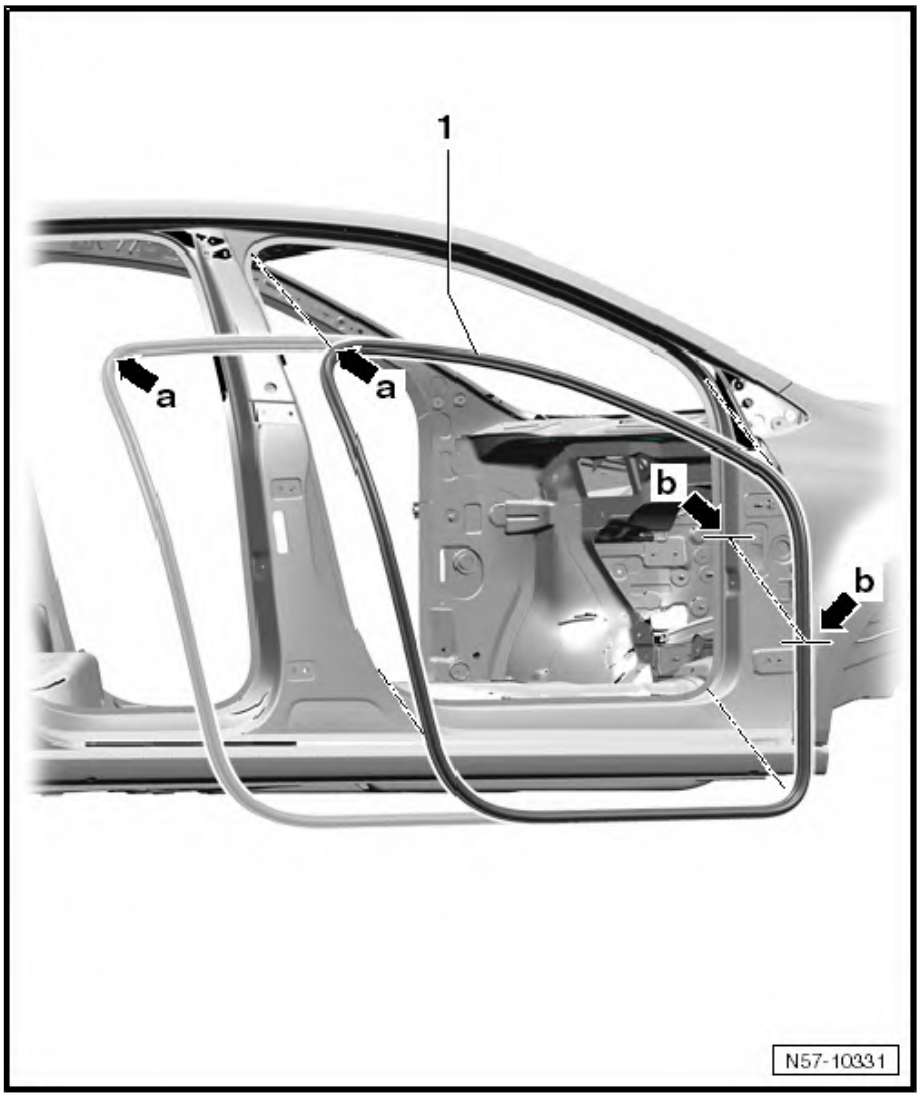
– Slide the seal under the exterior mirror -arrow b-.
– Press the seal -1- uniformly -arrows a- by hand onto the flange -2-.

2.17 Removing and installing the inside door seal

During the installation in series, the inside door seals are provided with a sealing compound which is placed on the door flange and subsequently rolled up.

Note

- *During the removal of the seal, the sealing mass is distributed on the inside of the seal. While doing so, the sides are slightly bent open. If the seal is re-installed, leak-tightness and tight fit can no longer be guaranteed.*
- *For this reason, each seal which was completely removed must be replaced with a so-called "hammer finish seal".*
- *If the seals were detached partially, press together the sides of the seal before installing.*



Removing

– Remove the trim panels of the pillars for removing the inside door seal ⇒ "3 Trim panels of pillars", page 263 .

– Remove sill
⇒ "3.8.1 Removing and installing door sill panel", page 271 .

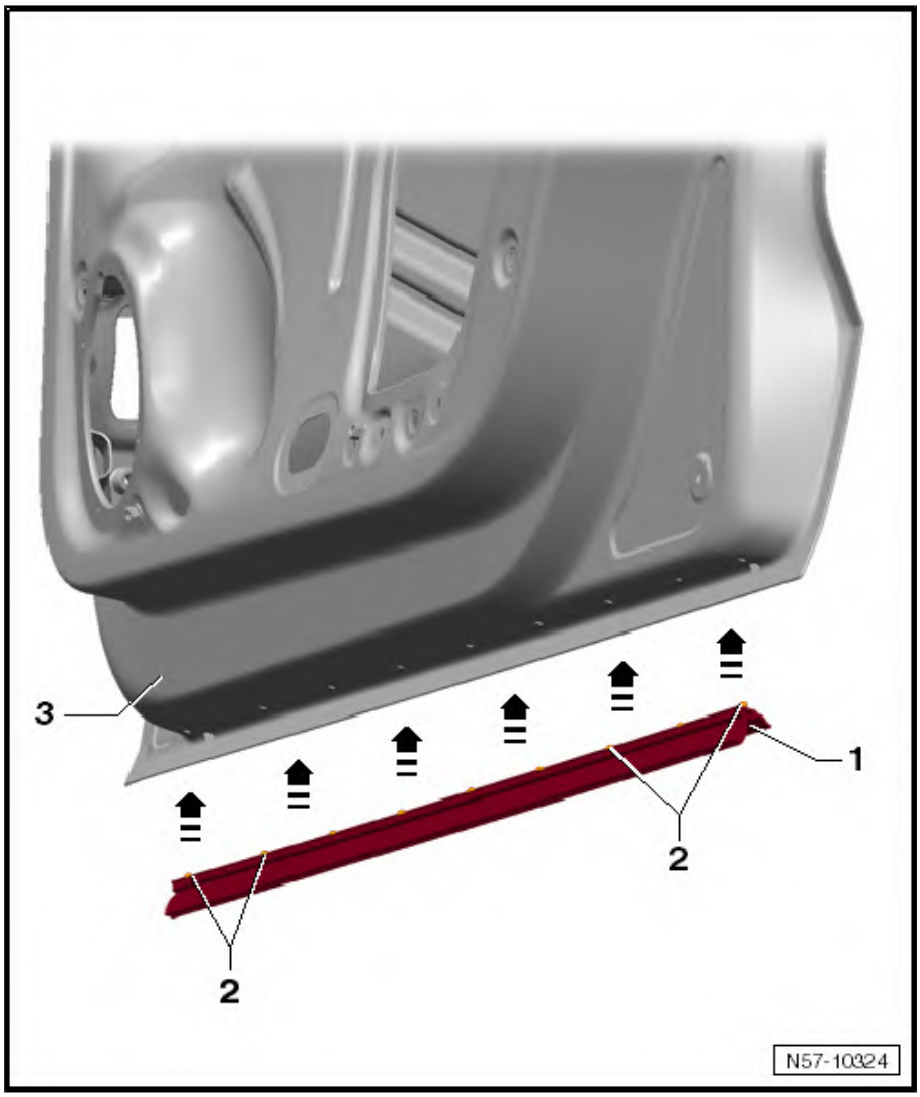
– Detach the inside door seal -1- from the body flange.

Installing

– Align the inside door seal -1- with the vulcanization point -arrow b- at the top bonnet hinge -arrow b-.

– When installing the inside door seal, start in the top radius of the door cutout -arrow a-.

2.18 Removing and installing the outside door seal



Removing

– Unclip the outside door seal -1- with the clips -2- from the door -3-.

Installing

– Press the seal - 1 - with the clips - 2 - on the door.

Note

Check the bracket -2- for damage, and replace where necessary.

3 Central locking

Note

The control motors of the front and rear doors central locking are component parts of the door locks and cannot be replaced individually.

– Removing and installing the door lock
⇒ “2.8 Removing and installing the door lock”, page 65 .

– After replacing the door lock with central locking motor, interrogate the event memory and erase ⇒ Vehicle diagnostic tester Self-Diagnosis for Convenience System.

3.1 Adjustment of radio control keys

3.2 Summary of components – battery for the (foldable) radio control key

1 - Key with transponder alternating code

2 - Radio container - top part

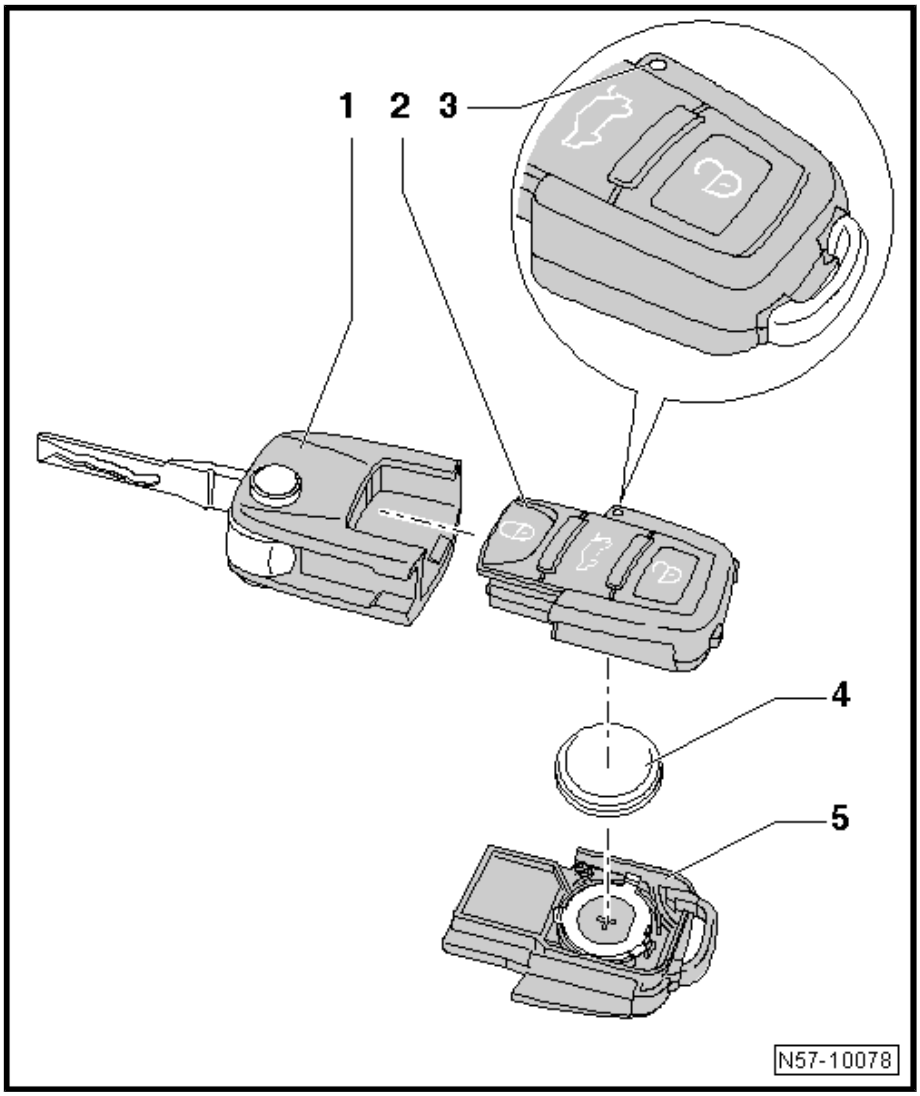
3 - LED

- ❑ This LED must flash when operating the radio remote control.
- ❑ If the LED does not flash when operating the radio remote control, the battery is discharged and must be changed.

4 - Battery

- ❑ Removing and installing
⇒ “3.3 Removing and installing the battery for the foldable key with radio remote control ”, page 86 .

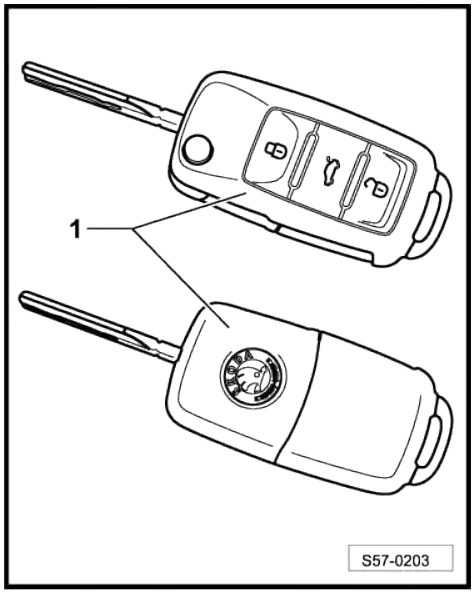
5 - Radio container - bottom part



Volkswagen Technical Site: http://vwts.ru http://vwts.info

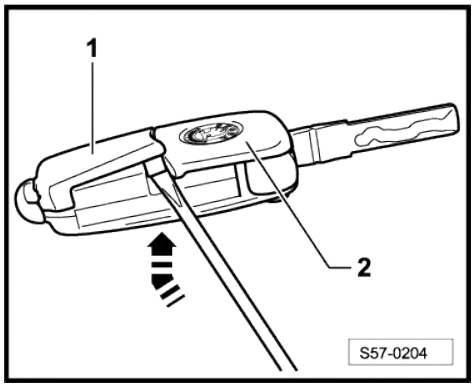
3.3 Removing and installing the battery for the foldable key with radio remote control

– Key shape of the foldable radio remote control key (Pos.1).

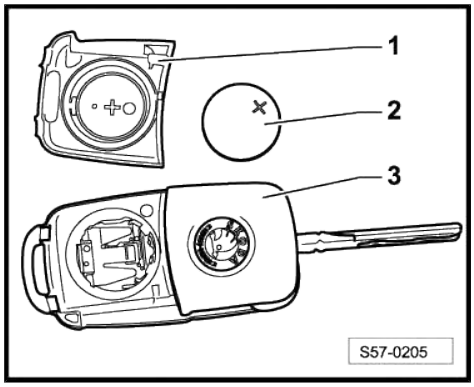


Removing

– Insert a screwdriver under the catch in -direction of arrow- and lever the battery cover (Pos. 1) off the key (Pos. 2).



– Unclip the battery (Pos. 2) from the catches using a screwdriver.



Installing

Note

- *Before installing the battery, it is absolutely necessary to press a random button once. Thus, the radio container is reset to as-new condition and can only now detect a new battery.*
- *Observe the polarity and the fitting location when installing the battery.*

– Insert the battery on the provided point and press slightly until it locks into position between the contacts.

– Clip in the battery cover.

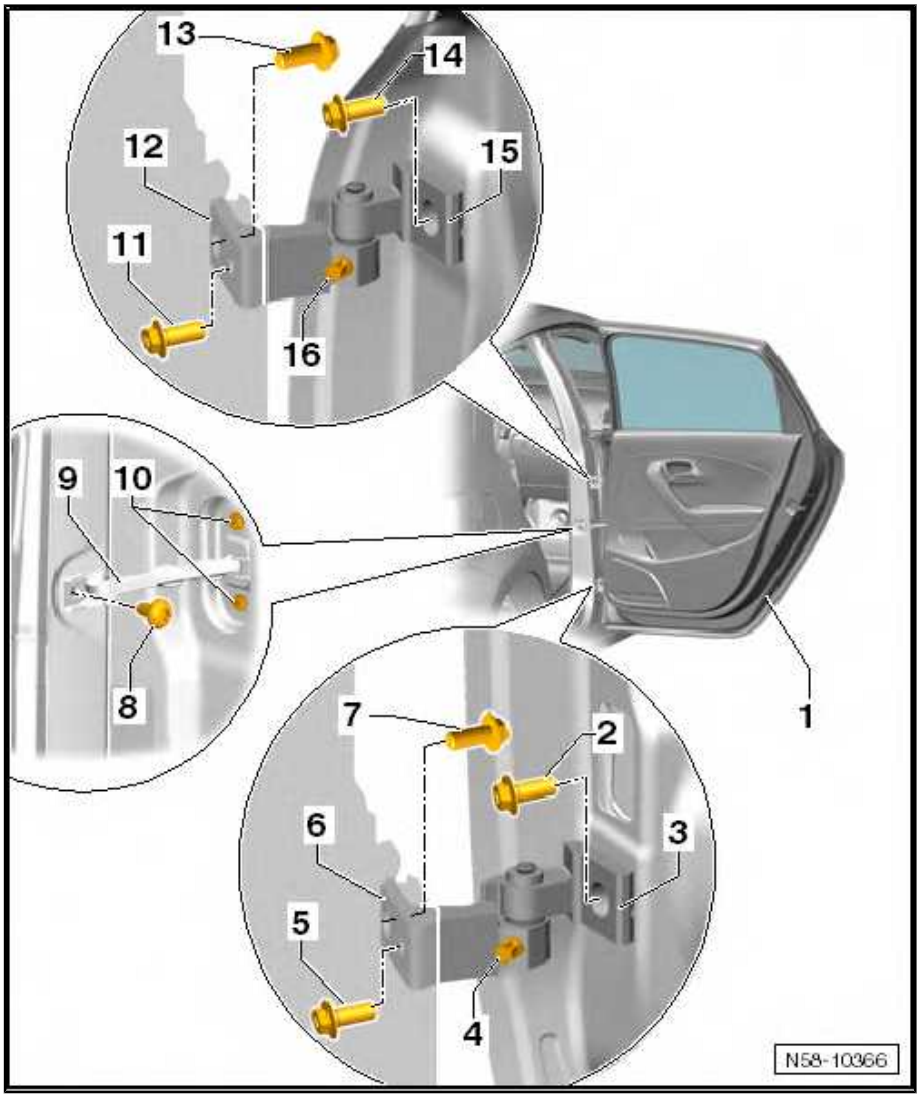
58 – Rear doors, door components

1 Rear door

1.1 Assembly overview - door hanger

Note

Always replace the screws for the door hinges after slackening.



1 - Door

- ❑ Removing and installing ⇒ “1.2 Removing and installing the door”, page 89 .
- ❑ Setting ⇒ “1.3 Door adjustment”, page 91 .

2 - Multi-point socket head bolt

- ❑ 32 Nm.
- ❑ Always replace the screws after the removal.

3 - Door hinge

- ❑ The top part is connected to the bottom part of the hinge by the screw - 4 -.

4 - Screw

- ❑ This screw must be unscrewed in order to remove the door from the hinge.
- ❑ 23 Nm.

5 - Multi-point socket head bolt

- ❑ Installed from the inside of the vehicle.
- ❑ Remove bottom trim panel of B pillar ⇒ “3.5 Removing and installing bottom B-pillar trim panel”, page 267 .
- ❑ 32 Nm.
- ❑ Always replace the screws after the removal.

6 - Door hinge

- ❑ The bottom part is connected to the top part of the hinge by the screw -4-.

7 - Multi-point socket head bolt

- ❑ 32 Nm.
- ❑ Always replace the screws after the removal.

8 - Screw

- ❑ 32 Nm.
- ❑ 30 Nm - only for Russian market
- ❑ This screw must be unscrewed in order to remove the door.

9 - Door retaining strap

10 - Screw

- ❑ 9 Nm.
- ❑ For door retaining strap.

11 - Multi-point socket head bolt

- ❑ Installed from the inside of the vehicle.
- ❑ 32 Nm.
- ❑ Always replace the screws after the removal.

12 - Door hinge

- ❑ The bottom part is connected to the top part of the hinge by the screw -16-.

13 - Multi-point socket head bolt

- ❑ 32 Nm.
- ❑ Always replace the screws after the removal.

14 - Multi-point socket head bolt

- ❑ 32 Nm.
- ❑ Always replace the screws after the removal.

15 - Door hinge

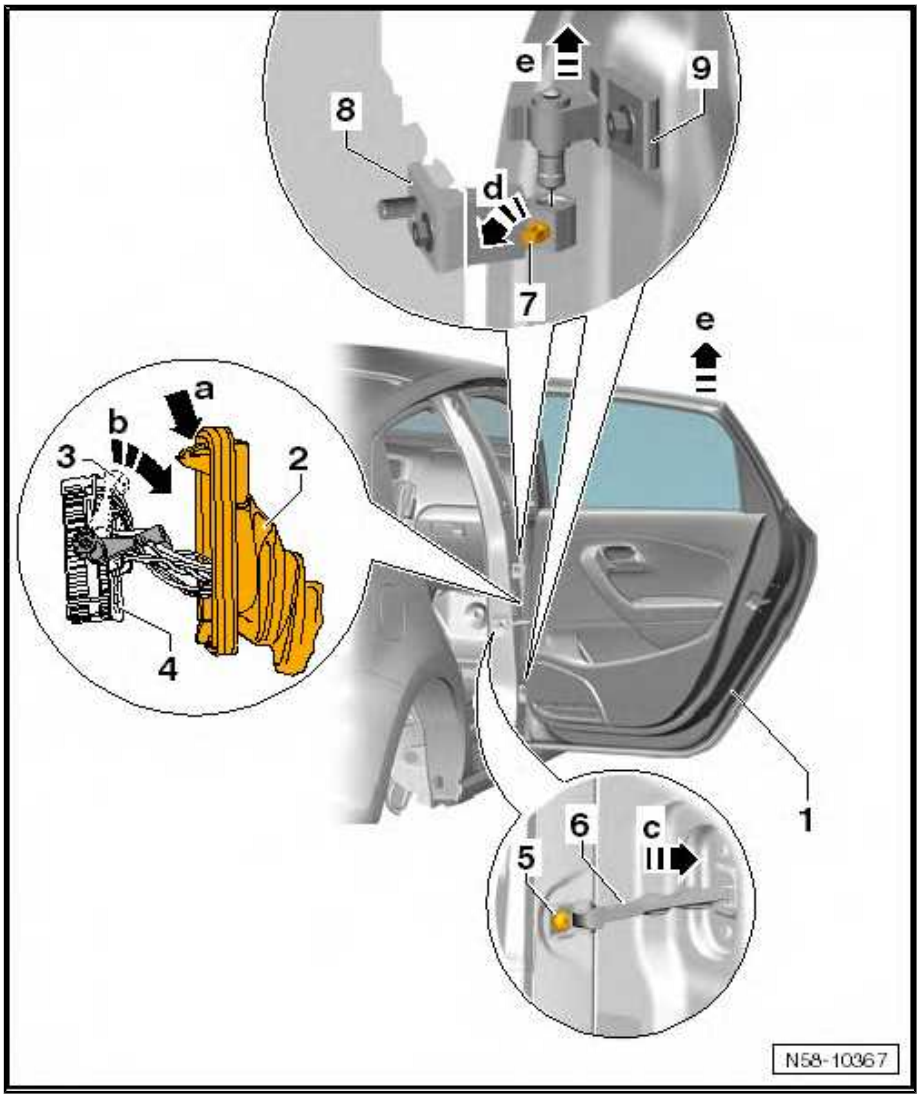
- ❑ The top part is connected to the bottom part of the hinge by the screw - 16 -.

16 - Screw

- ❑ 23 Nm.
- ❑ This screw must be screwed down in order to remove the door from the hinge bolt.

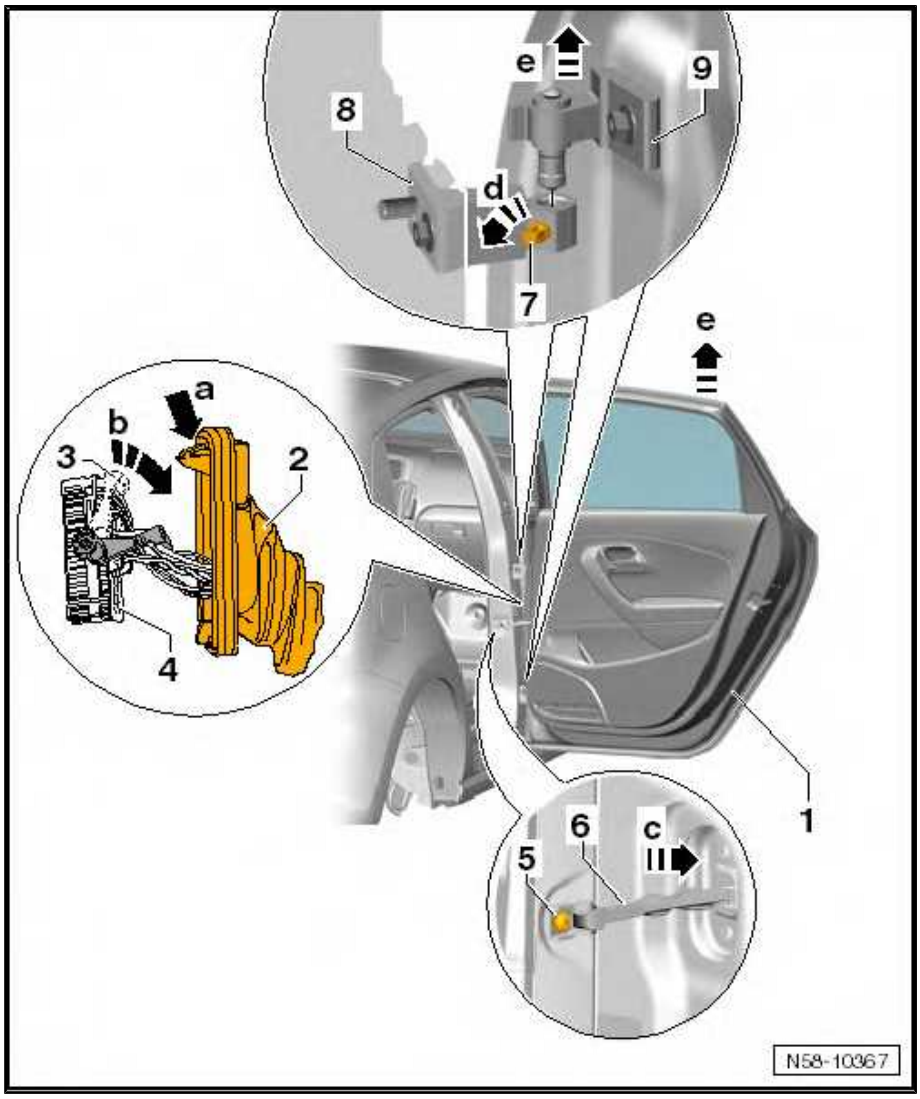
1.2 Removing and installing the door

1.2.1 Removing



– Release the bellows -2- by pressing on the catch -arrow a- and detach it from the A pillar.
– Swivel the release lever -3- downwards -arrow b- and disconnect the el. plug connection -4- from the connector station.
– Slacken the screws -7- at the hinges -arrows d-.
– Remove the screws -5- for the door retaining strap -6-.
– Pull the door -1- upwards -arrow e- and out of the hinges -8-.

1.2.2 Installing



– The installation occurs in reverse order.

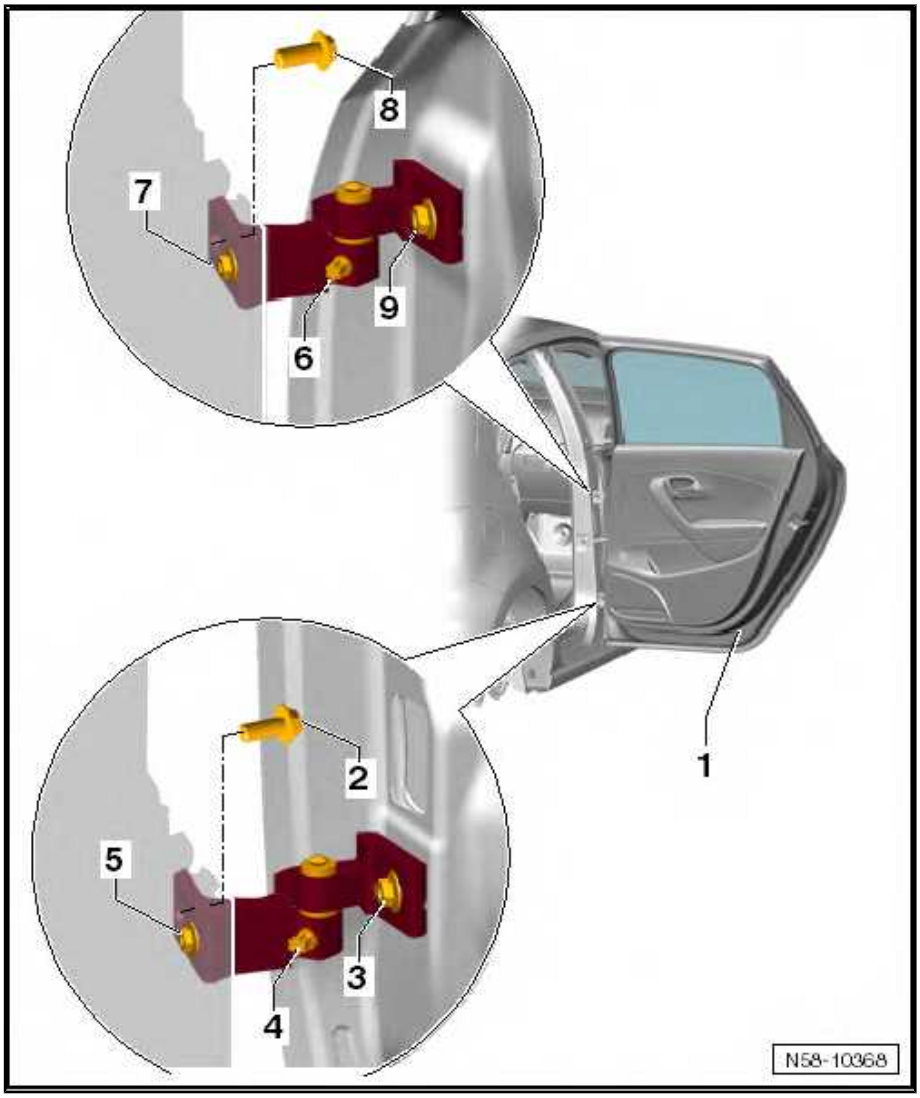
– Tightening torques of screws
⇒ “1.1 Assembly overview - door hanger”, page 87 .

– Observe the gap sizes of the front door ⇒ Body Repairs; Rep. gr. 00 ; technical data; body gaps; front body .

1.3 Door adjustment

Note

- *The vehicle must be standing on its wheels in order to adjust the rear door.*
- *The rear door is correctly adjusted if in the closed state it has an overall even gap size, is not positioned too far inwards or outwards and the contours are aligned.*
- *Observe the gap sizes of the front door ⇒ Body Repairs; Rep. gr. 00 ; technical data; body gaps; front body .*
- *After carrying out adjustment work, perform corrosion protection measures at the screws and hinges.*



Setting the gap sizes

In order to correctly set the gap sizes, the screws -2, 5, 7, and 8- must be slackened at the A pillar.

– The bottom B pillar trim panel must be removed for the screw -5-

⇒ “3.5 Removing and installing bottom B-pillar trim panel”, page 267 .

– The bottom B pillar trim panel must be removed for the screw -7-
⇒ “3.5 Removing and installing bottom B-pillar trim panel”, page 267 .

Setting the gap sizes

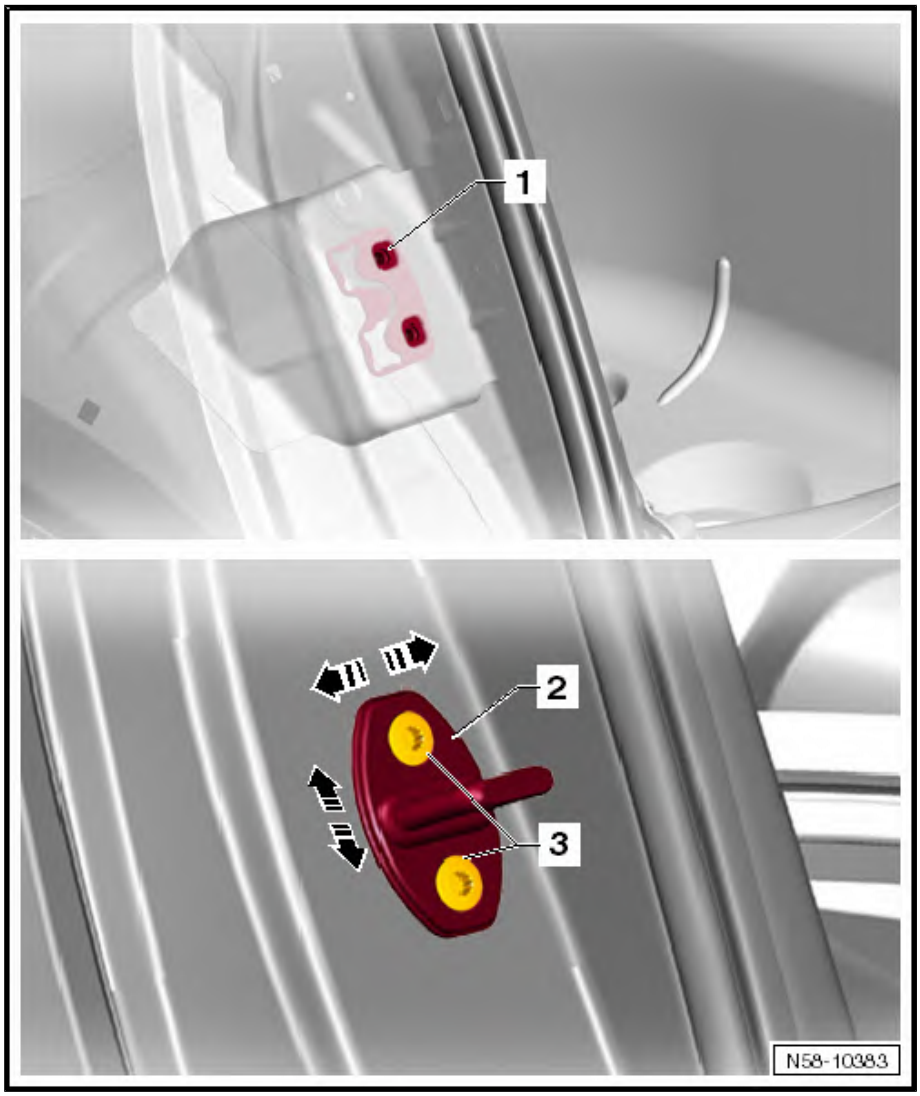
Slacken the screws -3 and 9- for correctly setting the flushness.

Note

Other measures, such as aligning the doors towards the top are ineffective. The door will drop again at the following overpressures.

Adjusting the locking clamp
⇒ “1.3.1 Adjusting the locking clamp”, page 92 .

1.3.1 Adjusting the locking clamp



Note

- *To adjust the locking clamp -2- once the screws -3- are loosened, increased force must be applied.*
- *When closing the door it must lock completely without using additional force and must have no play.*
- *When adjusting the locking clamp, the door must not be pressed upwards or downwards.*

The locking clamp is used for adjusting the following:

- If the rear door adjustment is not flush with the side part.

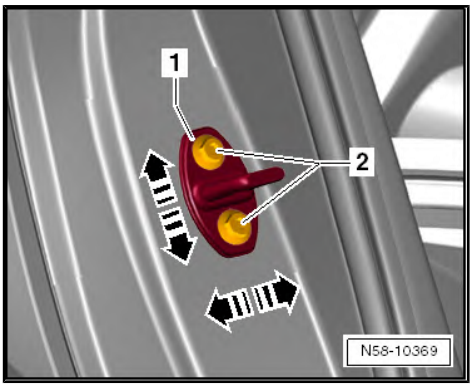
Carry out the following tasks

– Slacken the locking clamp -1- by loosening the screws -2- at the C pillar.

– Adjust the door with the locking clamp -1- in such a way that the rear door when in the closed state is flush with the side part (wind noise).

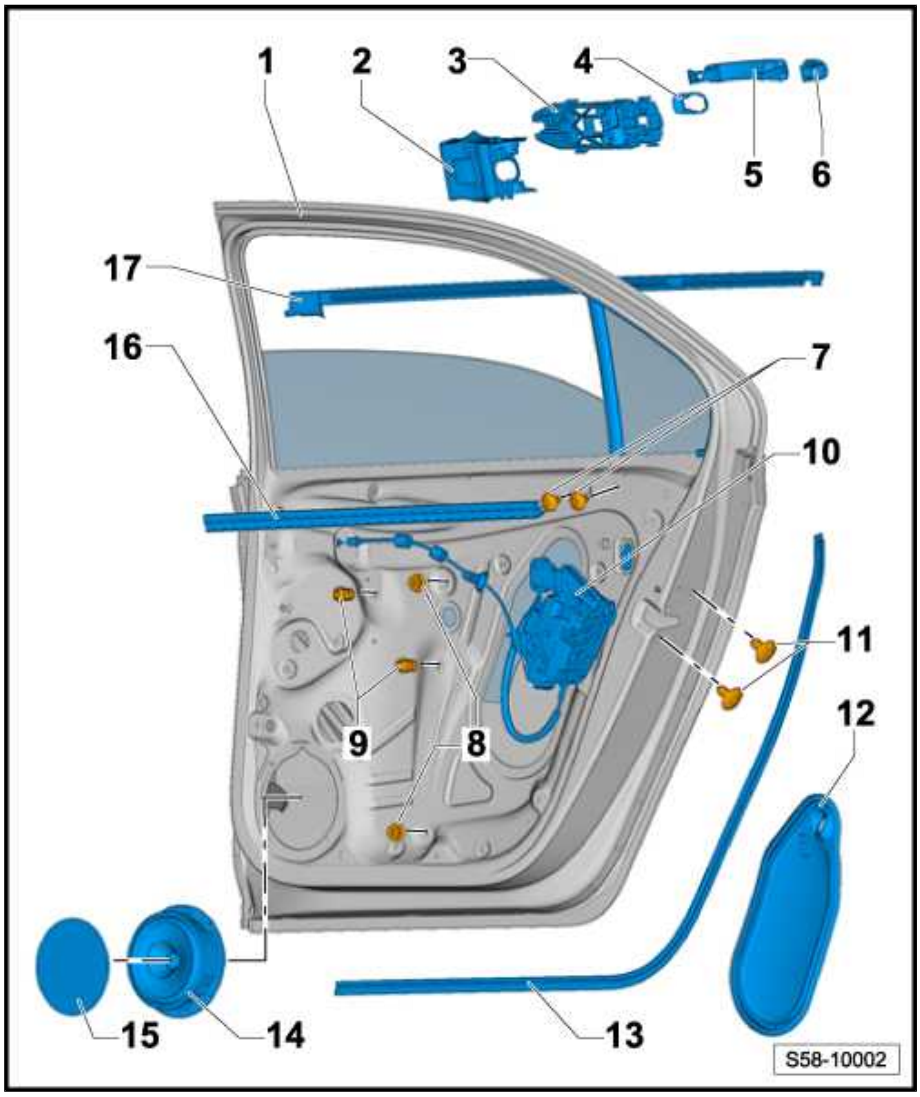
– Tighten screws - 2 - of locking clamp - 1 -.

Tightening torque of screws (Pos. 2) - 20 Nm.



2 Door internal parts

2.1 Summary of components



1 - Door

- ❑ Removing and installing ⇒ “1.2 Removing and installing the door”, page 89 .
- ❑ Setting ⇒ “1.3 Door adjustment”, page 91 .

2 - Cover for bearing bracket

3 - Bearing bracket

- ❑ Removing and installing ⇒ “2.9 Removing and installing bearing bracket”, page 106 .

4 - Supporting plate

5 - Outer door handle

- ❑ Removing and installing ⇒ “2.7 Removing and installing the door handle”, page 102 .

6 - Cap

- ❑ Removing and installing ⇒ “2.6 Removing and installing the cap”, page 99 .

7 - Screw

- ❑ Tightening torque - 8 Nm.

8 - Nut

- ❑ Tightening torque - 6 Nm.

9 - Riveted nuts

10 - Door lock

- ❑ Removing and installing ⇒ “2.8 Removing and installing the door lock”, page 104 .

11 - Screw

- ❑ Tightening torque - 20 Nm.

12 - Cover

- ❑ Removing and installing ⇒ “2.2 Removing and installing the cover”, page 95 .

13 - Outside door seal

- ❑ Removing and installing ⇒ “2.22 Removing and installing the outside door seal”, page 125 .

14 - Loudspeaker

15 - Cover

- ❑ Self-adhesive.
- ❑ If a speaker was not installed.

16 - Inner window channel strip

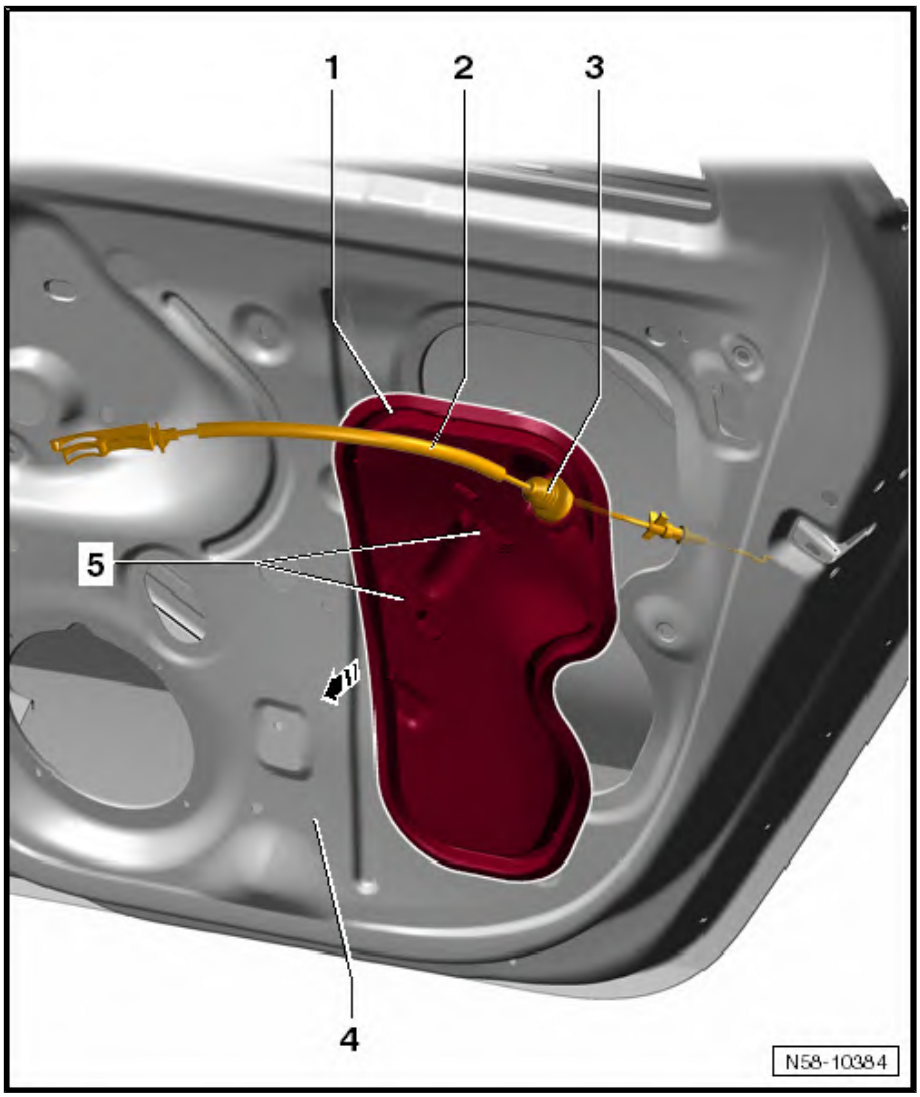
❑ Removing and installing ⇒ “2.19 Removing and installing the inner window channel strip”, page 121 .

17 - External window channel strip

❑ Removing and installing ⇒ “2.20 Removing and installing the outer window channel strip”, page 123 .

2.2 Removing and installing the cover

2.2.1 Removing



– Removing door trim panel
⇒ “2.2 Removing and installing the rear door trim panel ”, page 259 .

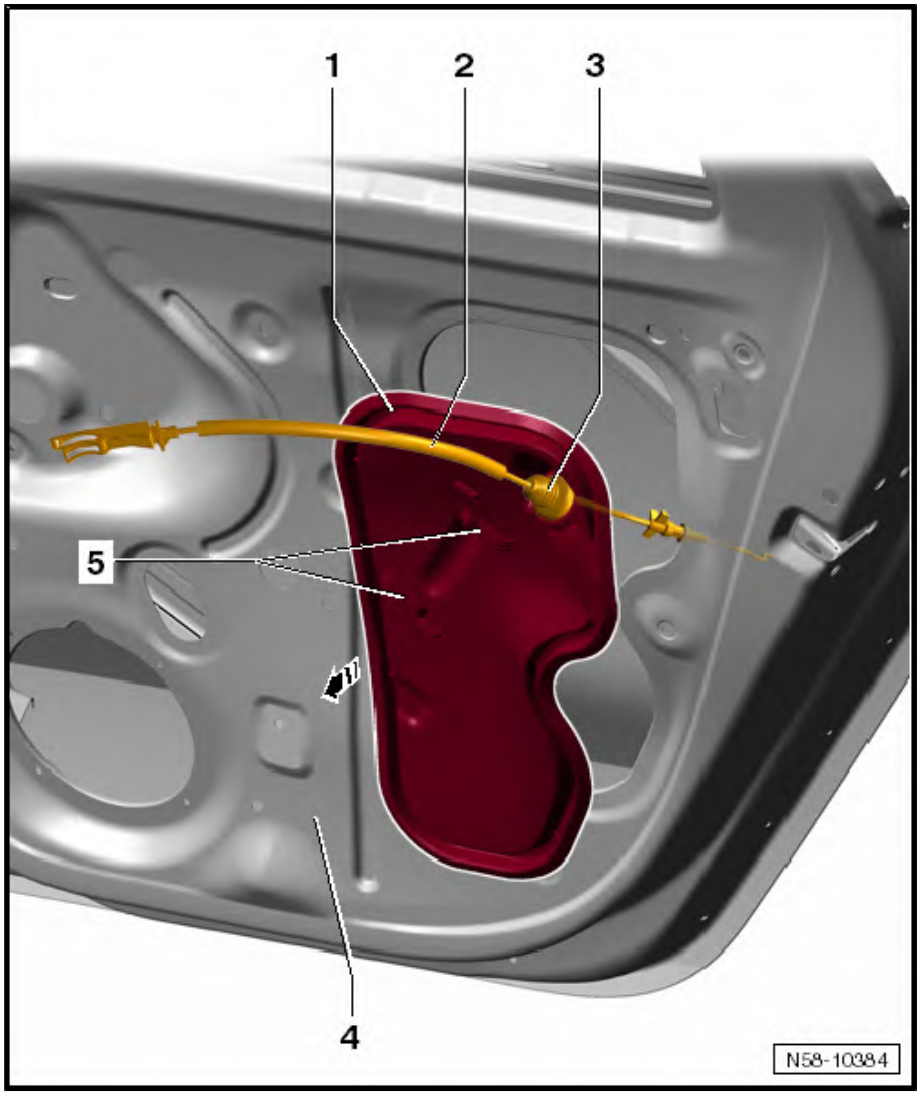
– Lift off the cover -1- in the bottom area.

– Pull the cover - 1 - downwards and remove it from the door - 4 - in -direction of arrow-.

Note

- *If the following operations are necessary, pull the Bowden cable -2- with the grommet -3- out of the cover -1-.*
- *The cables are slackened in the holders -5-.*

2.2.2 Installing

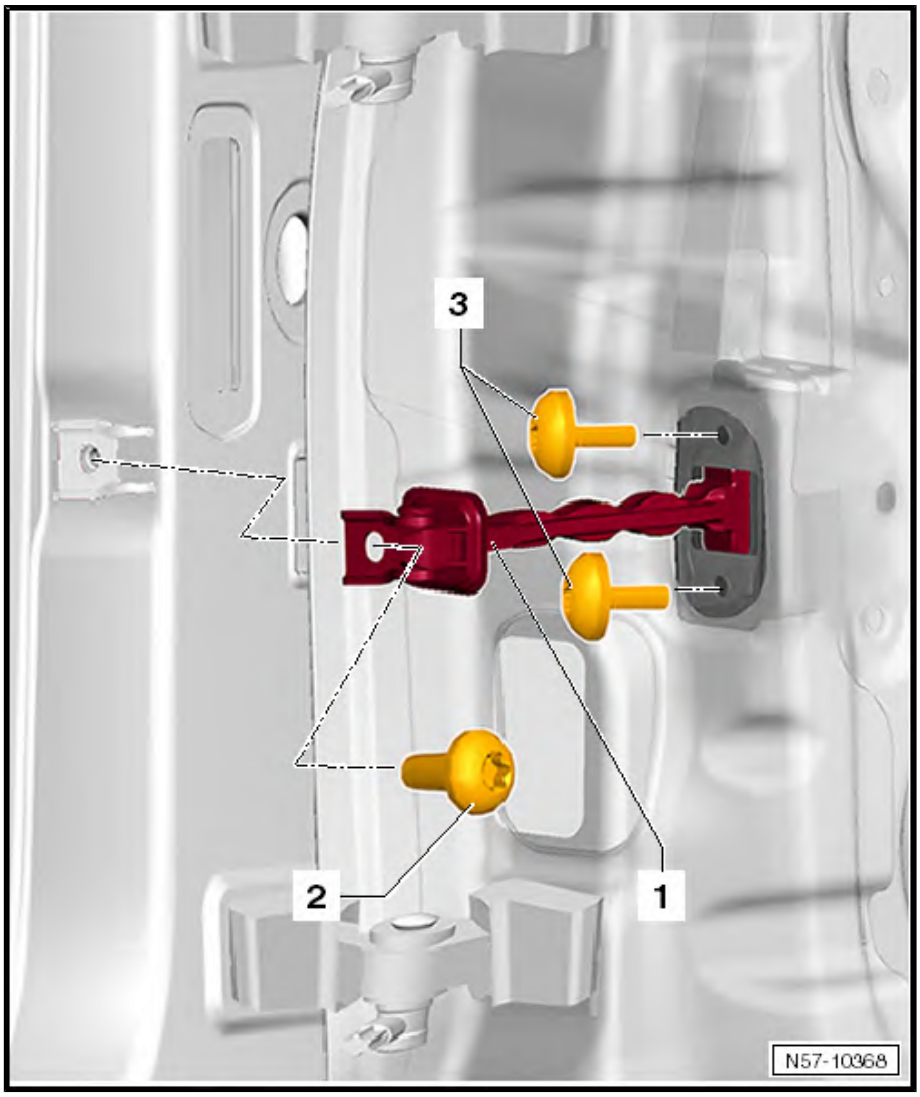


– Pull the Bowden cable -2- through the cover -1- and secure the grommet -3-.
– Insert the cover - 1 - upwards into the door - 4 -.
– Press the cover at the bottom in the door.

Note

The cables are secured in the holders - 5 -.

2.3 Removing and installing the door retaining strap



Removing

– Remove the loudspeaker.

– Remove the screw - 2 - at the A pillar.

– Remove the screws -3- and take out the door retaining strap -1- through the opening after the loudspeaker.

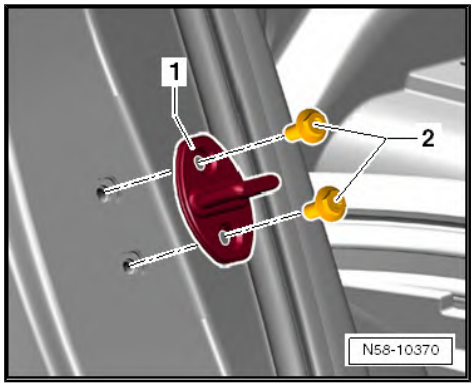
Installing

– Fit the door retaining strap - 1 - through the opening after the loudspeaker.

– Tighten screws -3-. Tightening torque
⇒ “1.1 Assembly overview - door hanger”, page 87 .

– Tighten bolt -2-. Tightening torque
⇒ “1.1 Assembly overview - door hanger”, page 87 .

2.4 Removing and installing the locking clamp



Removing

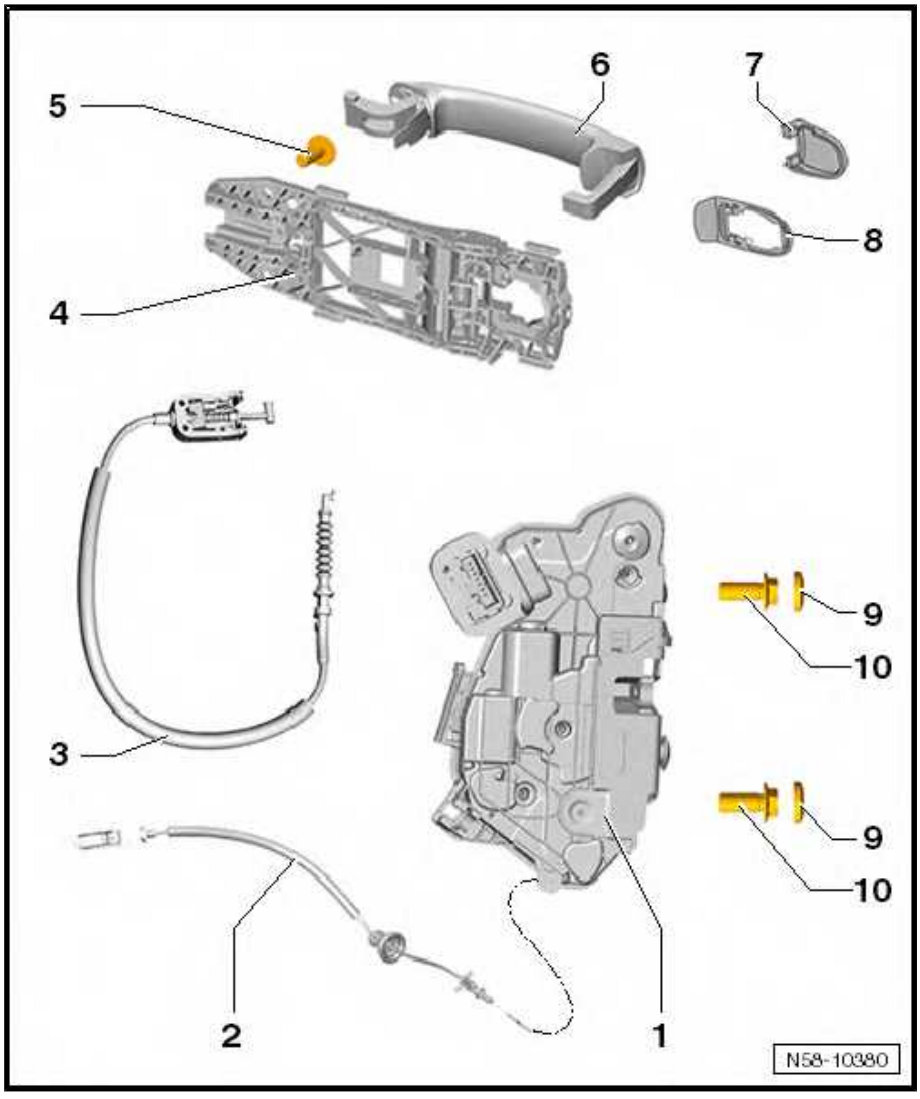
– Release screws - 2 - and remove locking clamp - 1 -.

Installing

– Fit the locking clamp - 1 - at the D pillar and position the screws - 2 -. Tightening torque - 25 Nm.

– Adjusting the locking clamp
⇒ “1.3.1 Adjusting the locking clamp”, page 92 .

2.5 Door handle and door lock - Summary of components



1 - Door lock

- ❑ Removing and installing ⇒ “2.8 Removing and installing the door lock”, page 104 .

2 - Control cable

- ❑ From inner door control to lock release.

3 - Control cable

- ❑ From door lock to bearing bracket.

4 - Clamp

- ❑ Removing and installing ⇒ “2.4 Removing and installing the locking clamp”, page 98 .

5 - Screw

- ❑ Tightening torque - 1.7 Nm.
- ❑ The bearing bracket is released from the door by loosening the screw.

6 - Door handle

- ❑ Removing and installing ⇒ “2.7 Removing and installing the door handle”, page 102 .

7 - Cap

- ❑ Removing and installing ⇒ “2.6 Removing and installing the cap”, page 99 .

8 - Washer

9 - Cover

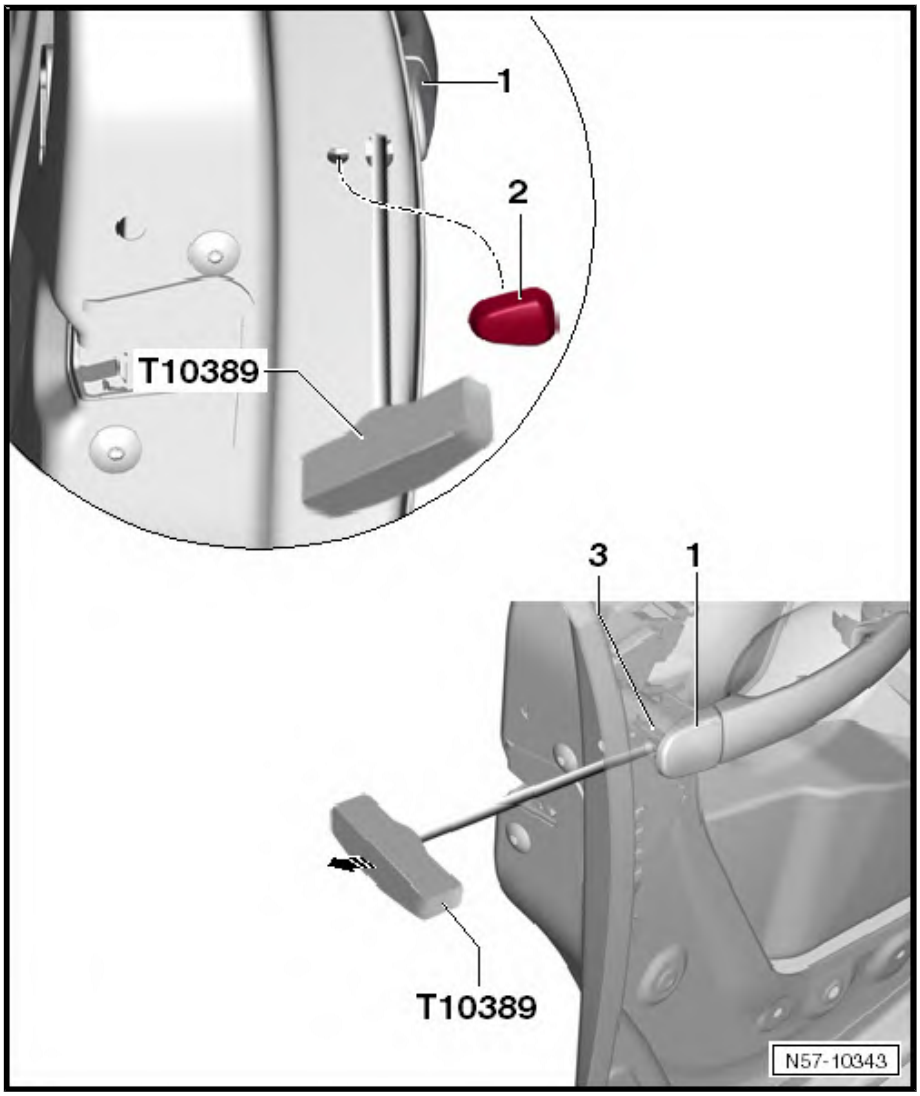
- ❑ Not installed in all the countries.

10 - Screw

- ❑ Tightening torque - 20 Nm.

2.6 Removing and installing the cap

2.6.1 Removing

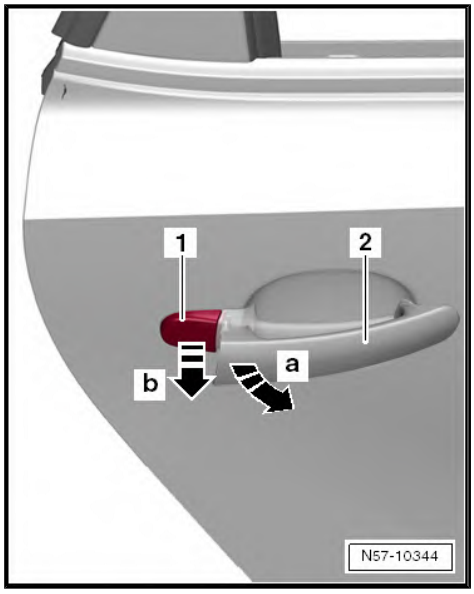


– Remove the plugs -2- from the rear openings.

– Guide the assembly tool - T10389- by approx. 38 mm into the opening behind the lock hooks -3- of the bearing bracket.

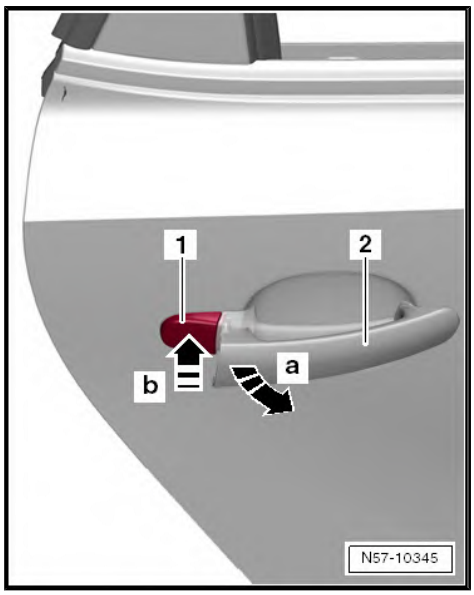
– Pull the assembly tool - T10389- as far towards the rear -arrow-, until the hook unlocks.

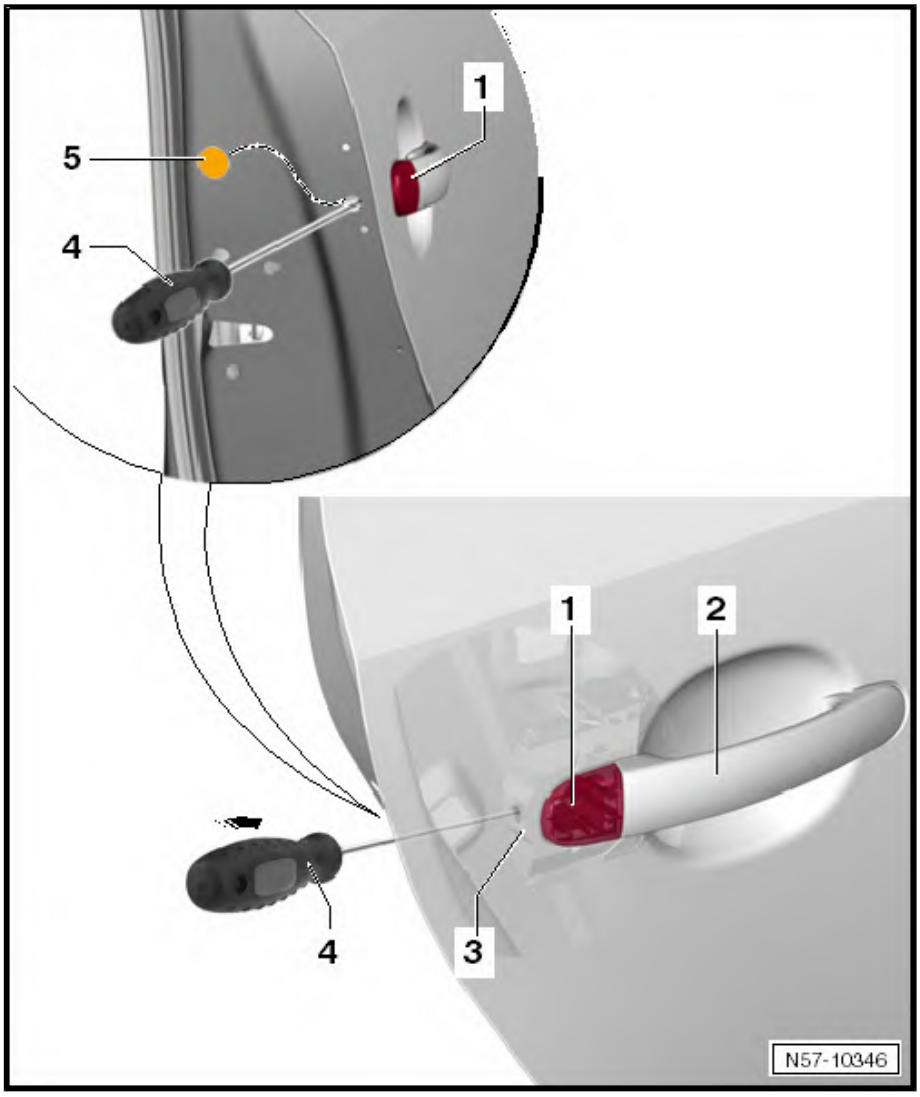
– Detach the door handle -2- in -direction of arrow a- from the door.
– Pull the cap - 1 - out of the bearing bracket -arrow b-.



2.6.2 Installing

– Detach the door handle -2- in -direction of arrow a- from the door.
– Push the cap -1- into the bearing bracket -arrow b-.

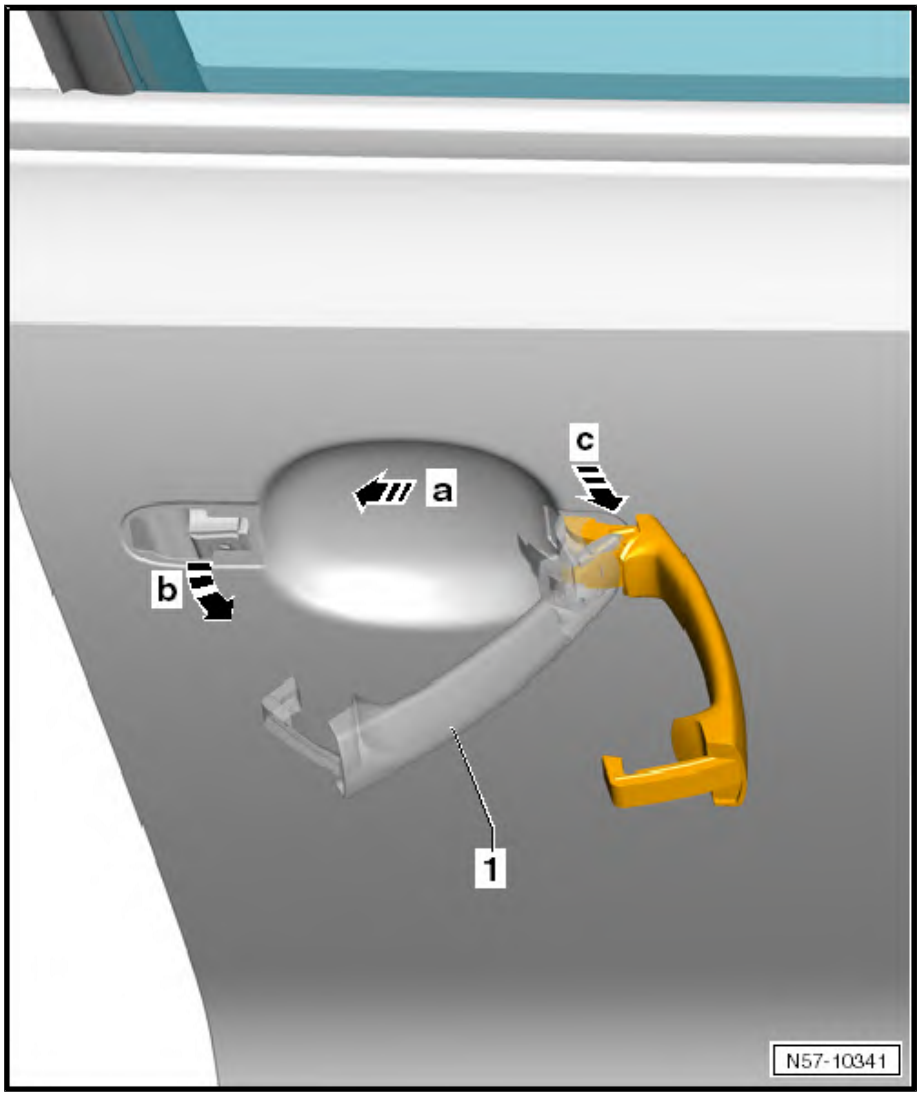




– For example guide a screwdriver -4- at the lock hooks -3- of the bearing bracket.
– Press the cap -1- on the door.
– Press in the screwdriver -arrow- until the hook locks.
– Attach plug -5-.

2.7 Removing and installing the door handle

2.7.1 Removing



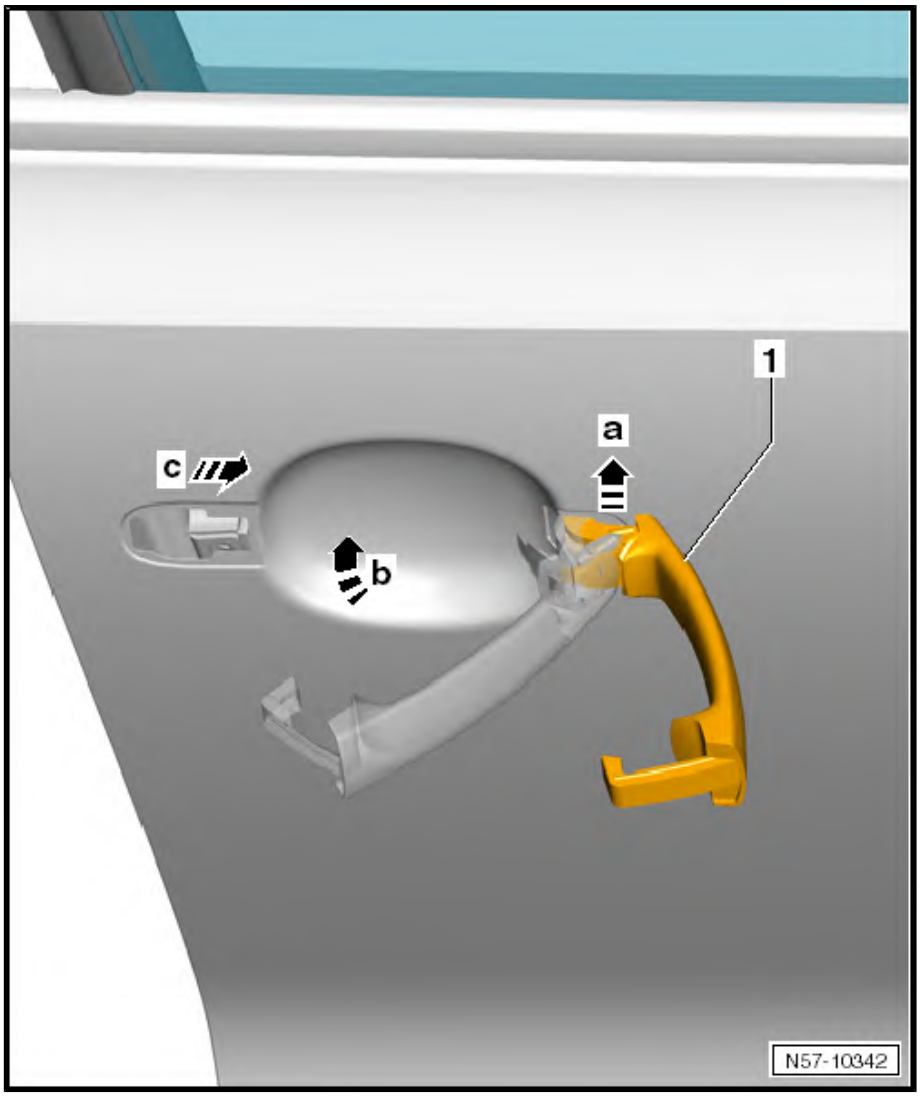
– Remove the cap
⇒ “2.6 Removing and installing the cap”, page 99 .

– Pull the door handle -1- slightly towards the rear arrow -a- out of the support of the bearing bracket.

– Swivel the door handle in -direction of arrow b-.

– Remove the door handle at a right angle -arrow a- out of the bearing bracket -2-.

2.7.2 Installing



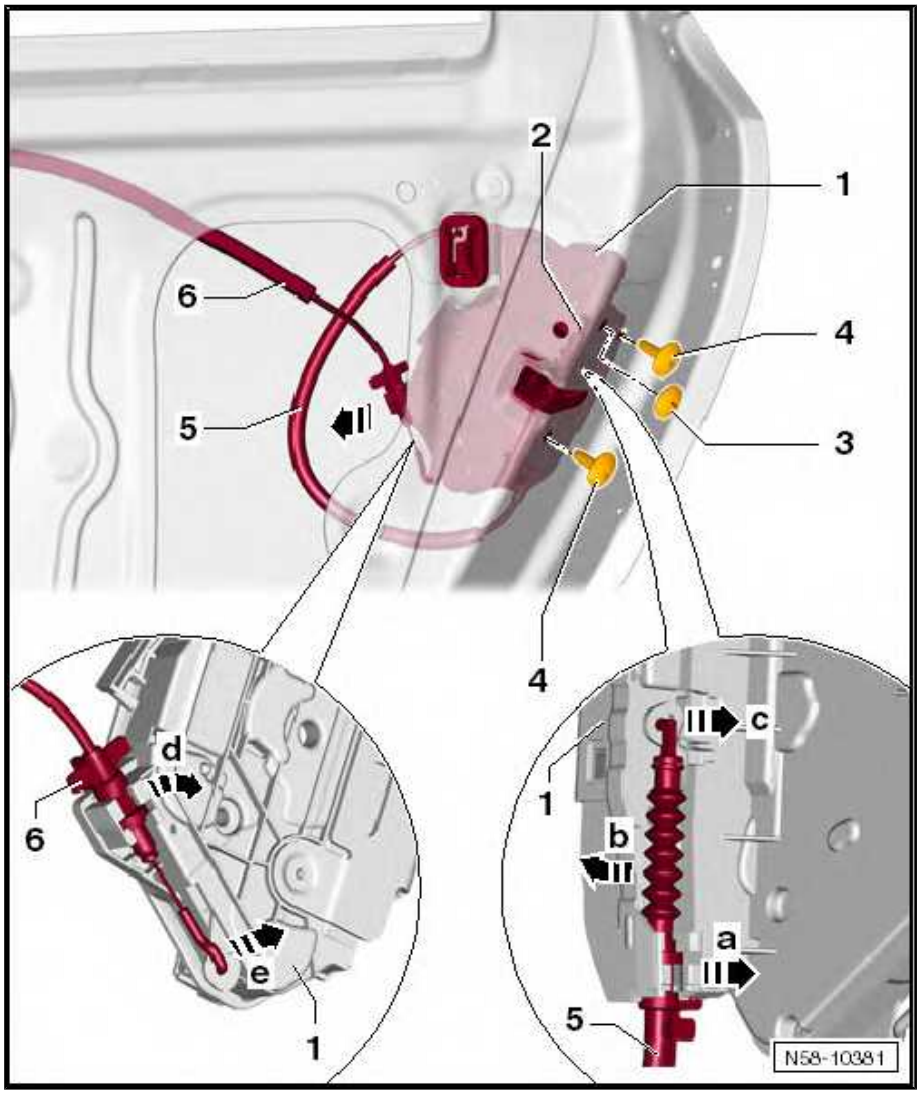
– Fit the door handle -1- at a right angle -arrow b- into the bearing bracket.
– Swivel the door handle -1- into the door -arrow b-.
– Forcefully press the door handle forwards -arrow c- into the support of the bearing bracket.

Install the cap
⇒ “2.6 Removing and installing the cap”, page 99 .

- Then it is absolutely necessary to perform a functional check when the door is opened.

2.8 Removing and installing the door lock

2.8.1 Removing



– Remove rear door trim panel
⇒ “2.2 Removing and installing the rear door trim panel ”, page 259 .

– Remove the cover
⇒ “2.2 Removing and installing the cover”, page 95 .

– Unscrew screws -4-.

– Remove the lock - 1 - from the door - 2 -.

Slacken Bowden cable to bearing bracket

– Twist the Bowden cable -5- by 45° and remove it from the bracket -arrow a-.

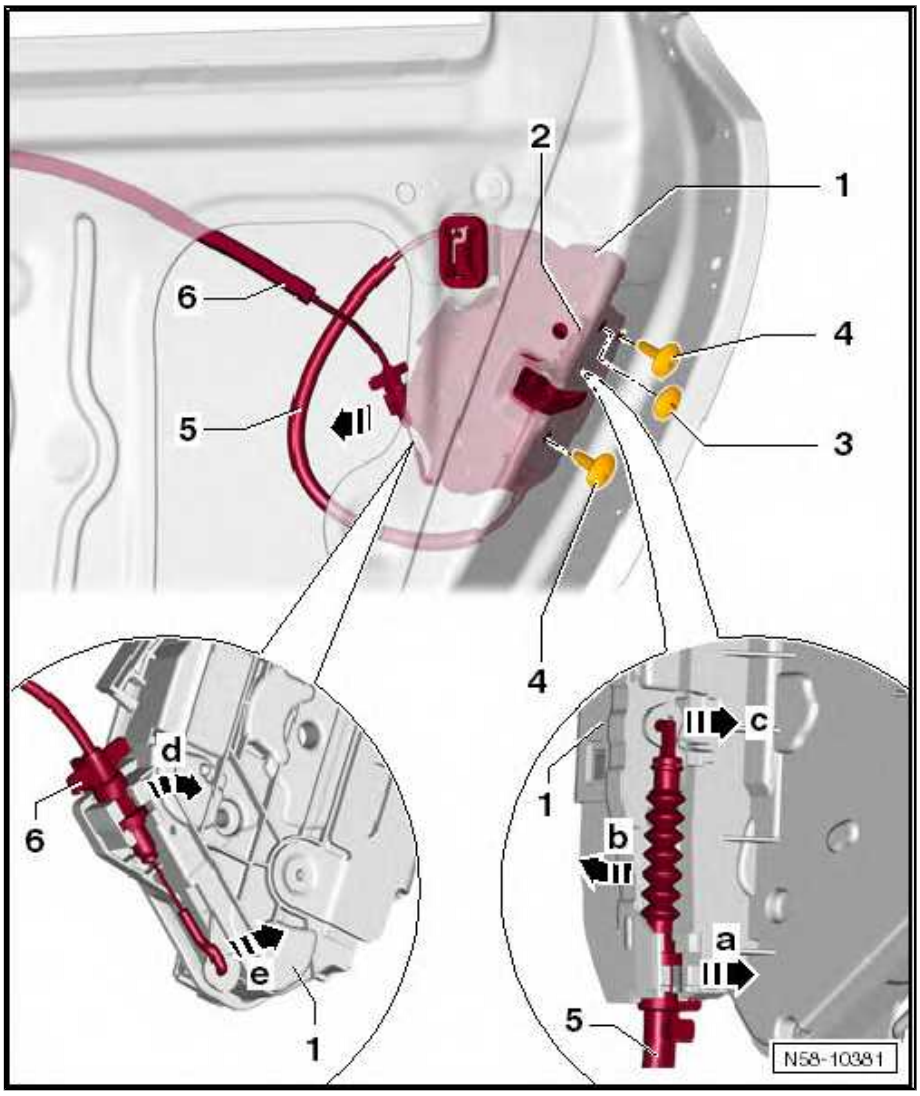
– Turn the Bowden cable - arrow b -until it can be guided out of the lug in the door lock (Pos. 1) - arrow c -.

Slacken the Bowden cable to the inner door control:

– Twist the Bowden cable -6- by 45° and remove it from the bracket.

– Turn the Bowden cable - arrow d - until the Bowden cable can be guided out of the lug in the door lock (Pos.1) - arrow e -.

2.8.2 Installing



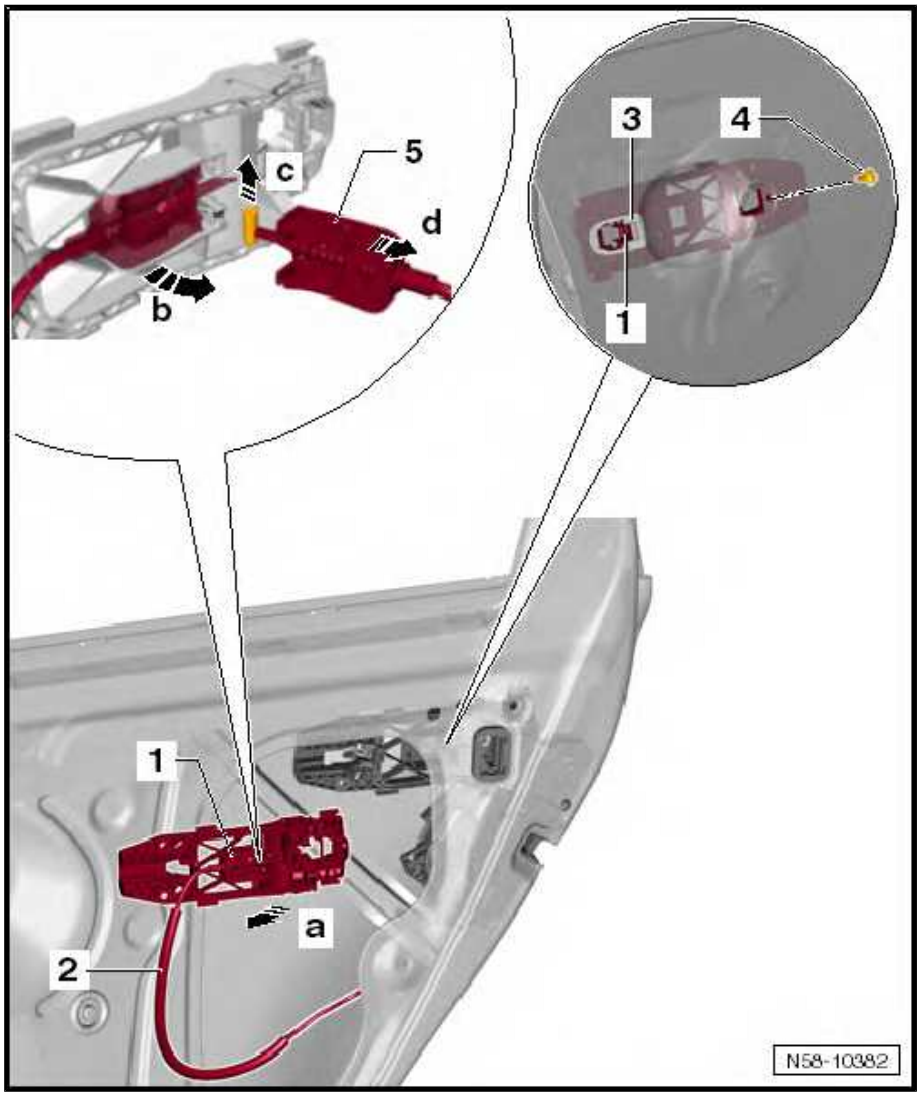
– The installation occurs in reverse order.

– Tightening torque of screw (Pos. 4) - 18 Nm.

It is absolutely necessary to perform a functional check because the door cannot be opened if the adjustment of the Bowden cables is not accurate and if they are not correctly locked.

2.9 Removing and installing bearing bracket

2.9.1 Removing



– Remove rear door trim panel
⇒ “2.2 Removing and installing the rear door trim panel ”, page 259 .

– Remove the cover
⇒ “2.2 Removing and installing the cover”, page 95 .

– Remove the cap
⇒ “2.6 Removing and installing the cap”, page 99 and the door handle
⇒ “2.7 Removing and installing the door handle”, page 102 .

– Release screw - 4 - and remove gasket - 3 -.

– Take the bearing bracket -1- out of the door -arrow a-.

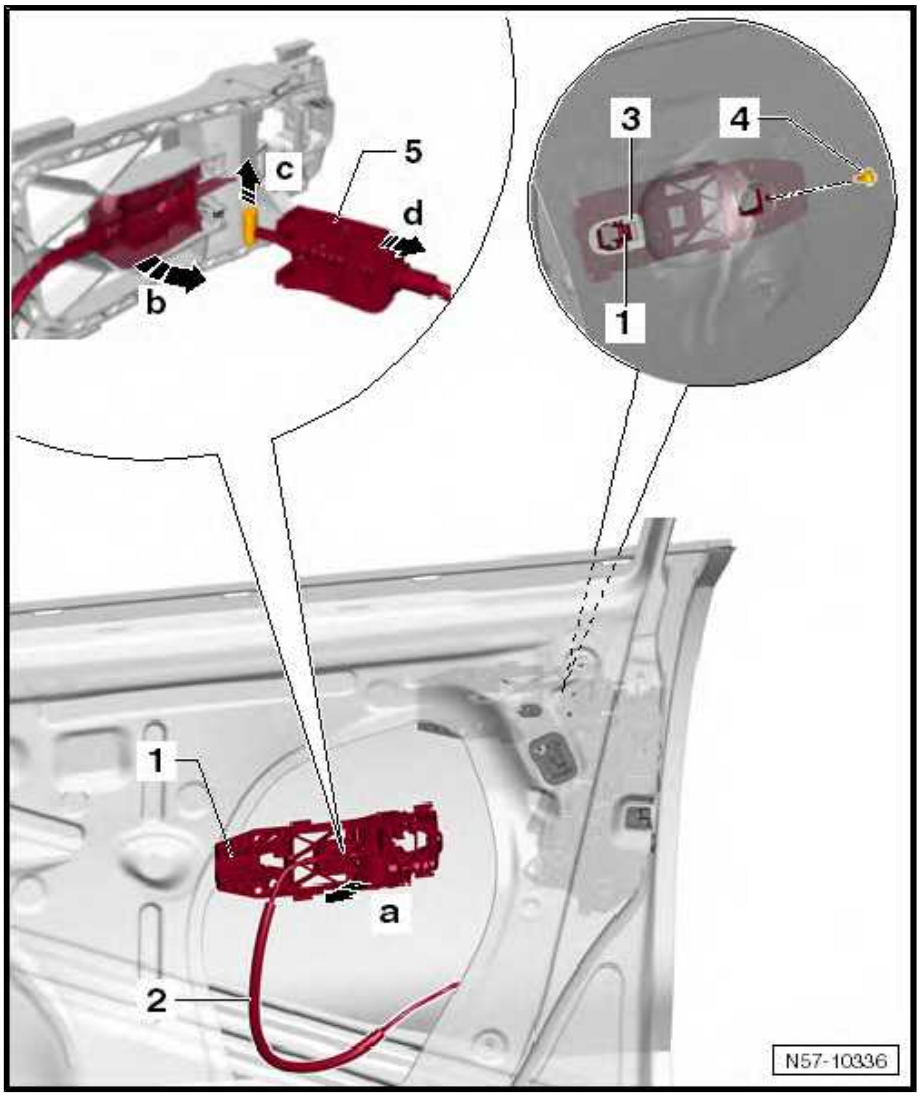
Slacken Bowden cable

– Unlock the bracket -5- and swivel the bracket out of the support in the bearing bracket -arrow b-.

– Lift the bolt of the control cable out of the support -arrow c-.

– Remove the Bowden cable from the bearing bracket - arrow d - .

2.9.2 Installing

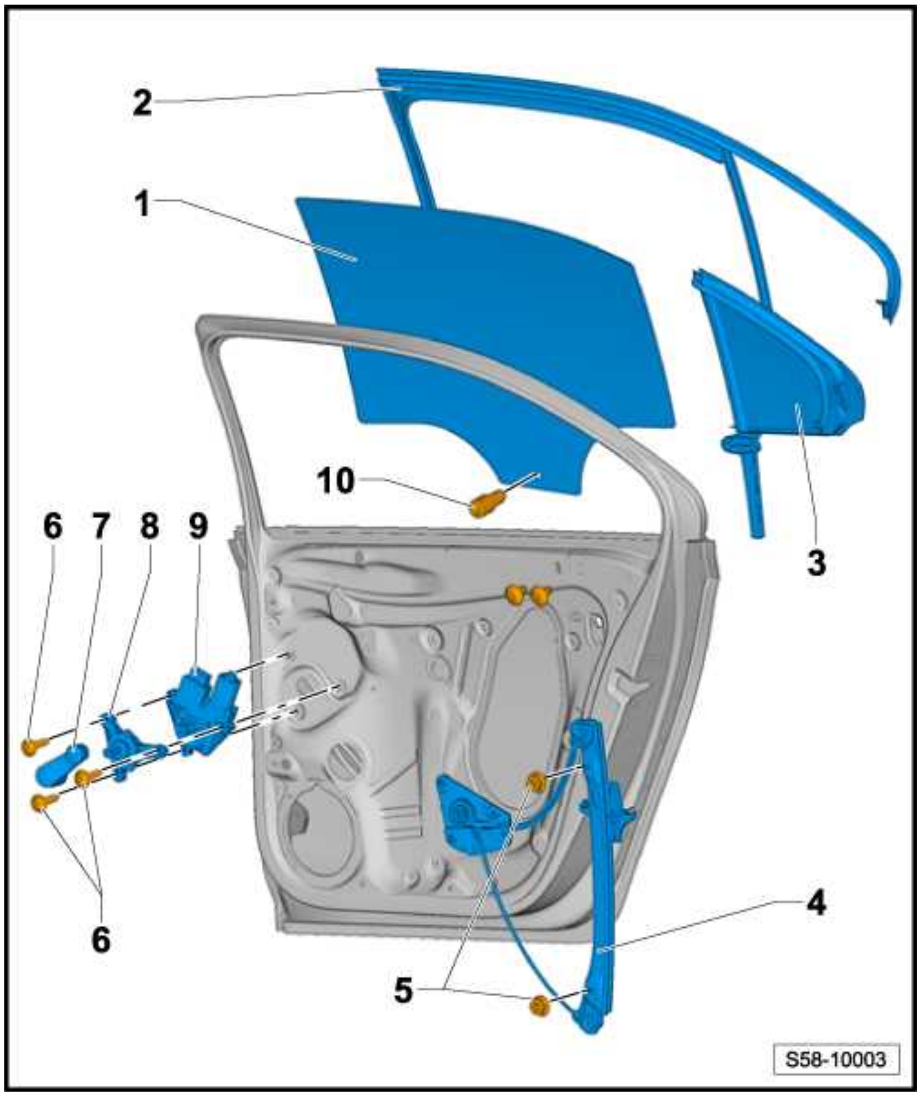


– The installation occurs in reverse order.

– Install screw -2-, tightening torque 1 Nm.

2.10 Rear door window

2.10.1 Summary of components



1 - Door window

- ❑ Removing and installing ⇒ “2.11 Removing and installing door window”, page 109 .

2 - Window run

- ❑ Inserted in the flange.
- ❑ Removing and installing ⇒ “2.16 Removing and installing the window run”, page 117 .

3 - Fixed door window

- ❑ Removing and installing ⇒ “2.17 Removing and installing the rear fixed door window”, page 120 .

4 - Window lifter

- ❑ Removing and installing ⇒ “2.15 Remove and install window lifter”, page 116 .

5 - Nut

- ❑ Tightening torque - 6 Nm.

6 - Screw

- ❑ Tightening torque - 3 Nm.

7 - Window crank

- ❑ For manual operation.
- ❑ Removing and installing ⇒ “2.14 Removing and installing window crank”, page 115 .

Volkswagen Technical Site: http://vwts.ru http://vwts.info

8 - Manual drive

- ❑ Removing and installing ⇒ “2.13 Removing and installing the manual drive”, page 114 .

9 - Window lifter motor

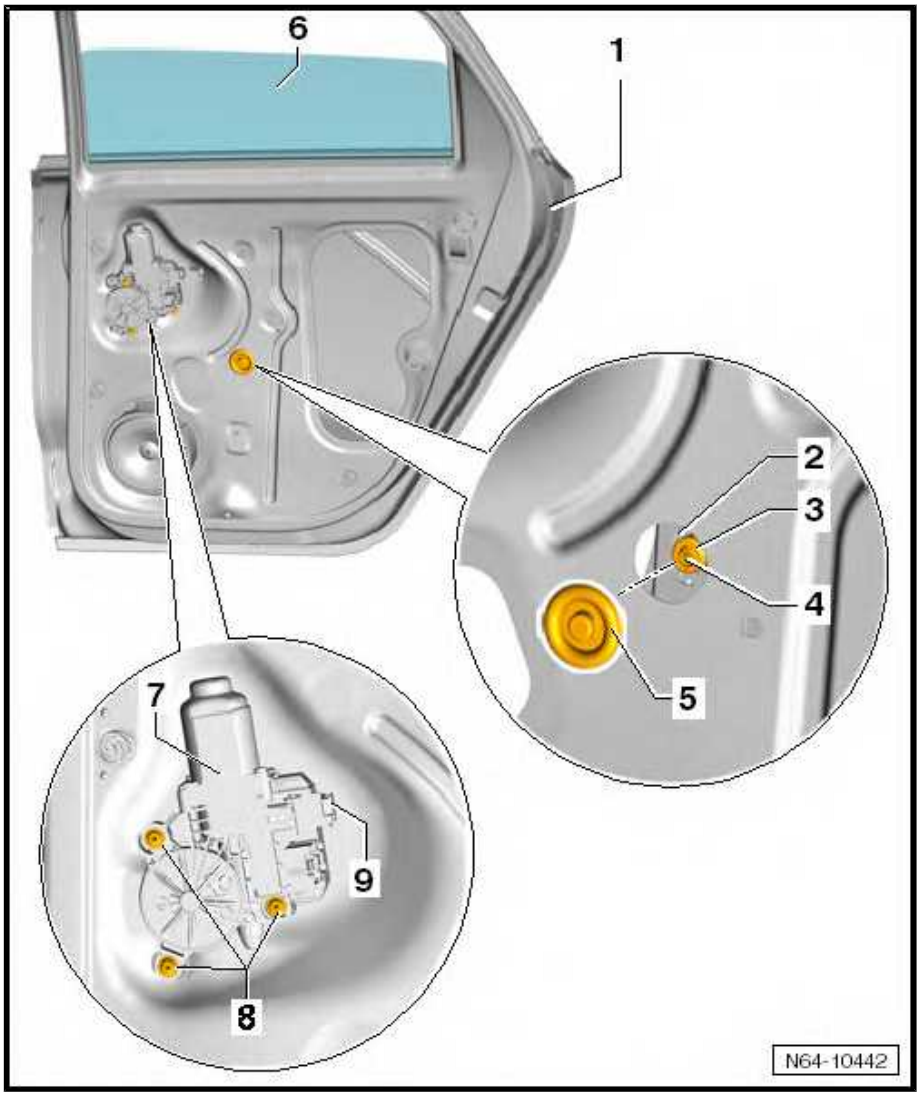
- ❑ Removing and installing ⇒ “2.12 Removing and installing window lifter motor”, page 112 .

10 - Adjusting pin and straddling dowel

- ❑ For securing the door window.

2.11 Removing and installing door window

2.11.1 Removing



– Remove rear door trim panel
⇒ “2.2 Removing and installing the rear door trim panel ”, page 259 .

– Remove inside door seal
⇒ “2.19 Removing and installing the inner window channel strip”, page 121 .

– Release cap - 5 -.

– Lower the door window -6- until the expanding pin -4- and the straddling dowel -3- can be accessed in the window lifter opening -2-.

Note

If this operation cannot be performed due to a failure at the window lifter motor, remove the window lifter motor -7-. Then the door window can be pushed to the required working height.

– Screw a 5 mm screw (approx. 70 mm long) into the adjusting pin - 4 - and pull the adjusting pin from the straddling dowel - 3 -.
– Screw an 8 mm screw (approx. 80 mm long) into the straddling dowel -3- and pull out of the pane.

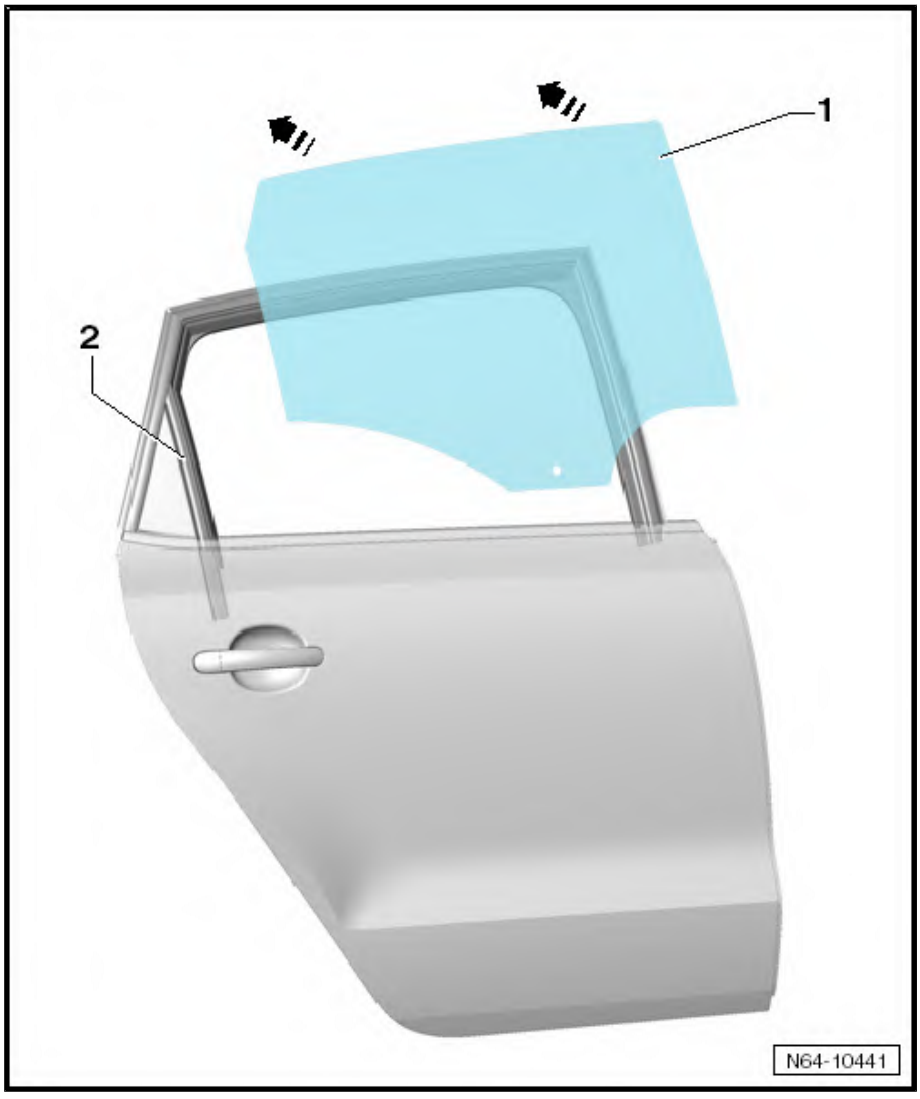
Note

Do not use excessive force when screwing the screw into the straddling dowel as it may fall into the door.

– Withdraw the straddling dowel - 3 - from the window lifter guide - 1 - and hence from the door window.

Note

Hold the door window when pulling out the straddling dowel so that the door does not fall down and get damaged.



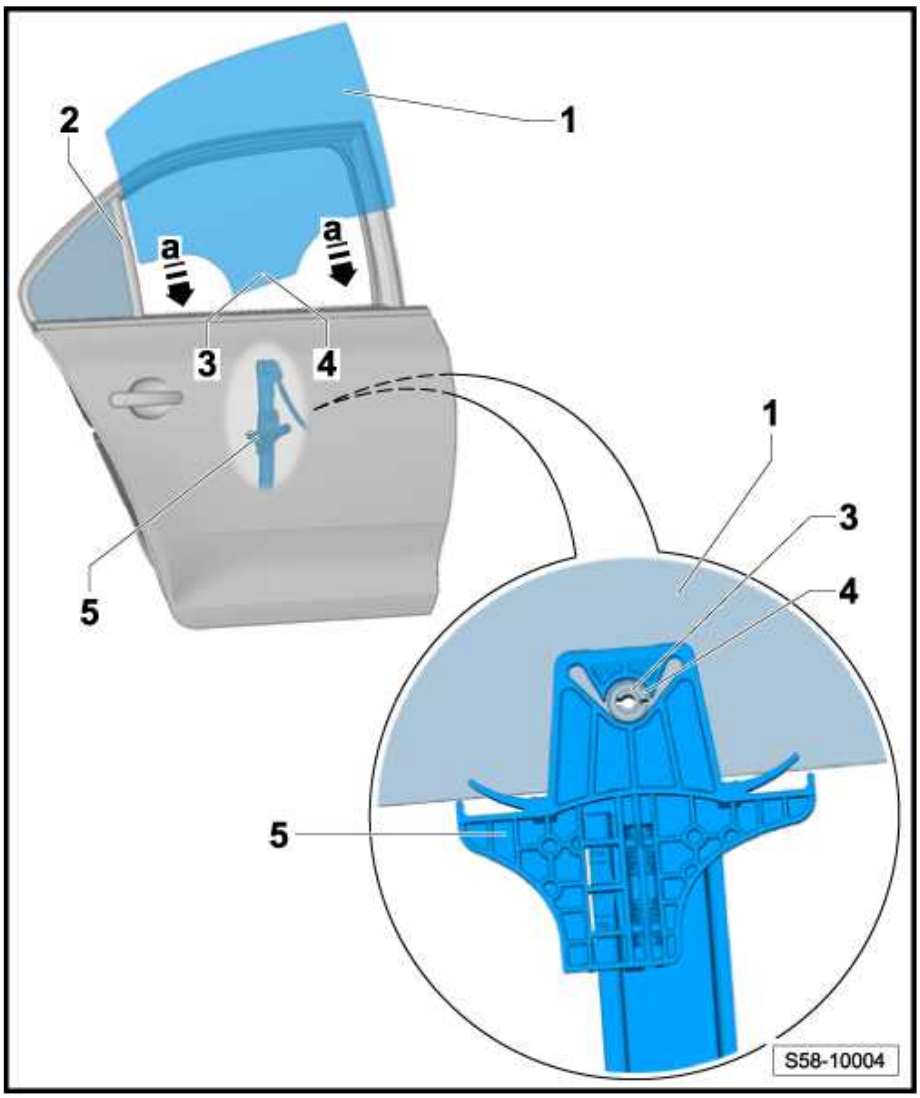
– Pull the rear part of the window run -2- out of the supports.

– Pull the door window - 1 - upwards at an angle - arrows - towards the outside of the vehicle and out of the window channel.

2.11.2 Installing

Note

Before inserting the expanding dowel - 3 - and the expanding pin - 4 -, check the door window - 1 - for damage.



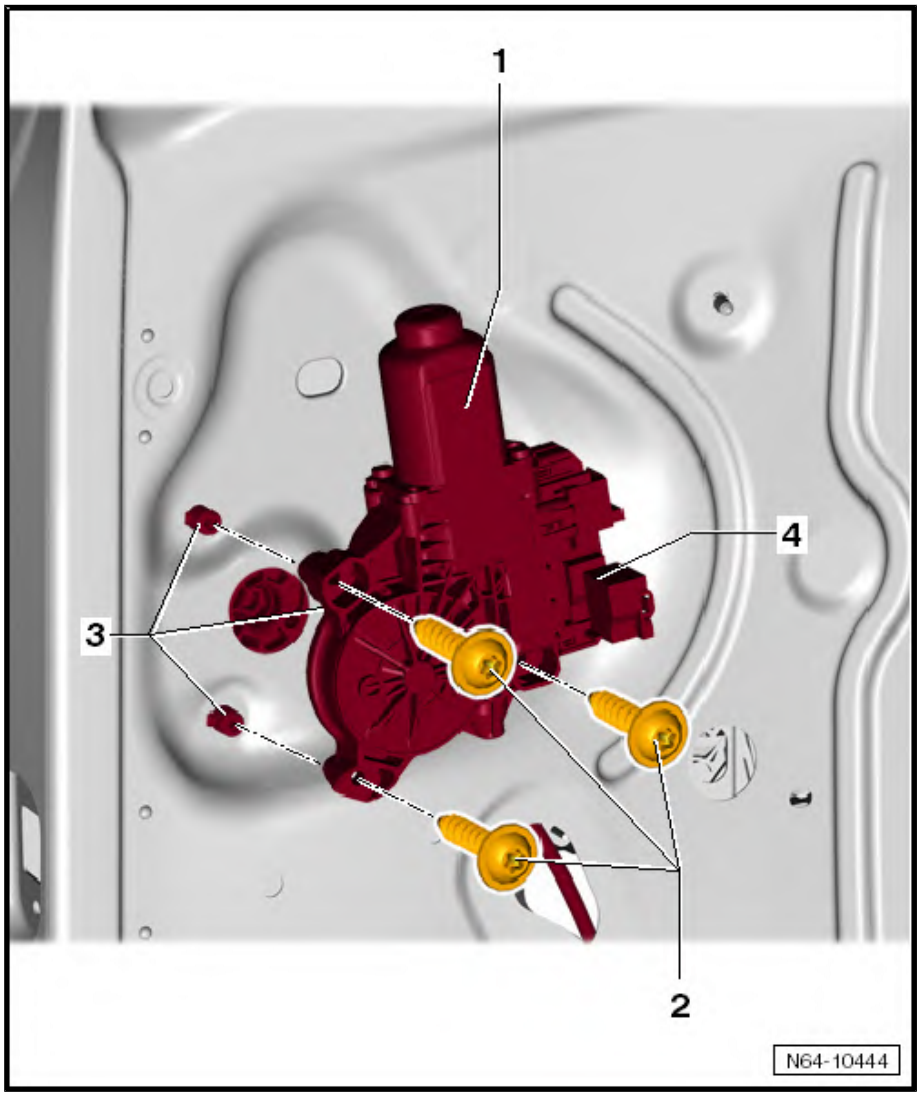
– Take the mean of the centre straddling dowel - 3 - and insert it when the door window is removed - 1 -.
– Press the straddle pin -4- into the straddling dowel -3-.
– Guide the pane - 1 - into the door - 2 - - arrows a - and insert the window lifter guide - 5 -.
– Gently tap on the pane - 1 - to lock it from above into the window lifter - 5 -.
– It must be pressed until the catch locks audibly into place.

– The further work procedure occurs in the reverse order to the removal.

• A functional check must be performed before installing the door trim panel.

2.12 Removing and installing window lifter motor

2.12.1 Removing



– Removing door trim panel
⇒ “2.2 Removing and installing the rear door trim panel ”, page 259 .

– Secure the door window with adhesive tape so that it does not slide off.

– Unplug connector -4-.

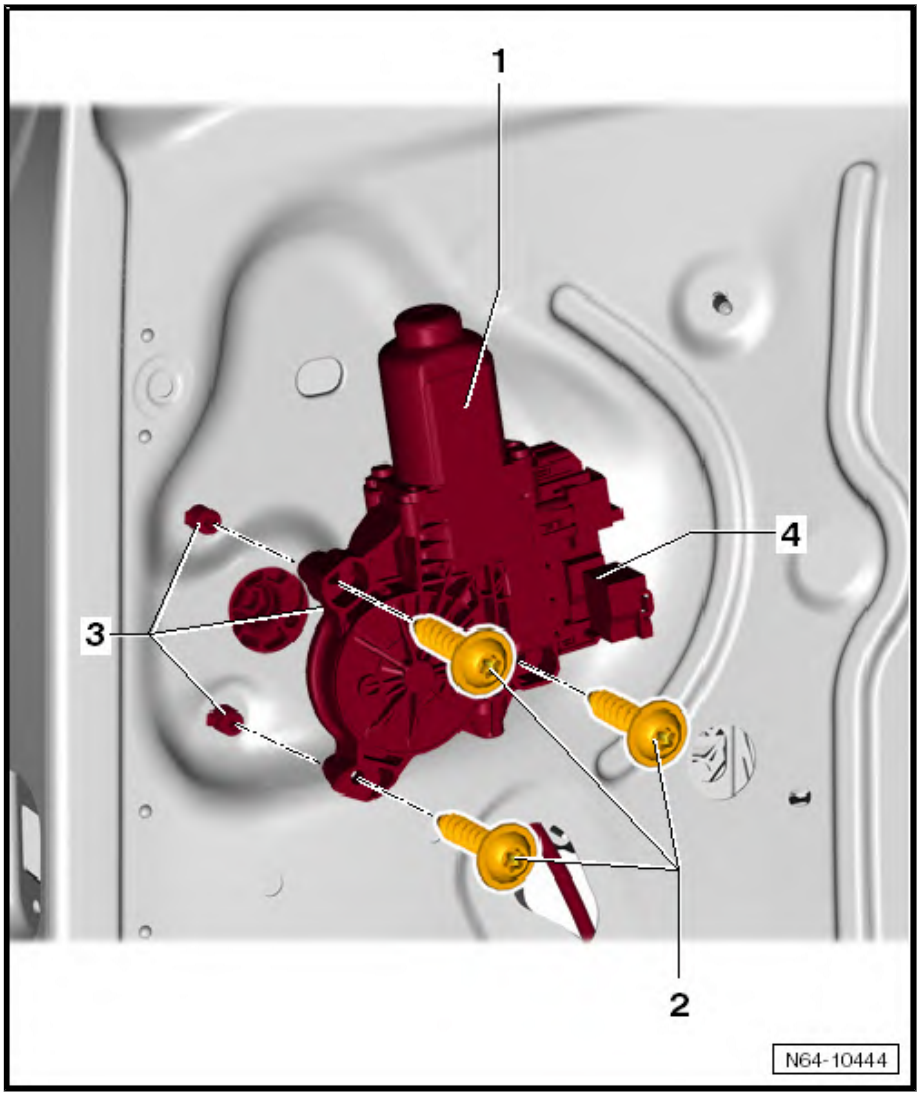
– Unscrew screws -2-.

– Remove the window lifter motor with the control unit - 1 - from the supports of the hoisting drum - 3 -.

2.12.2 Installing

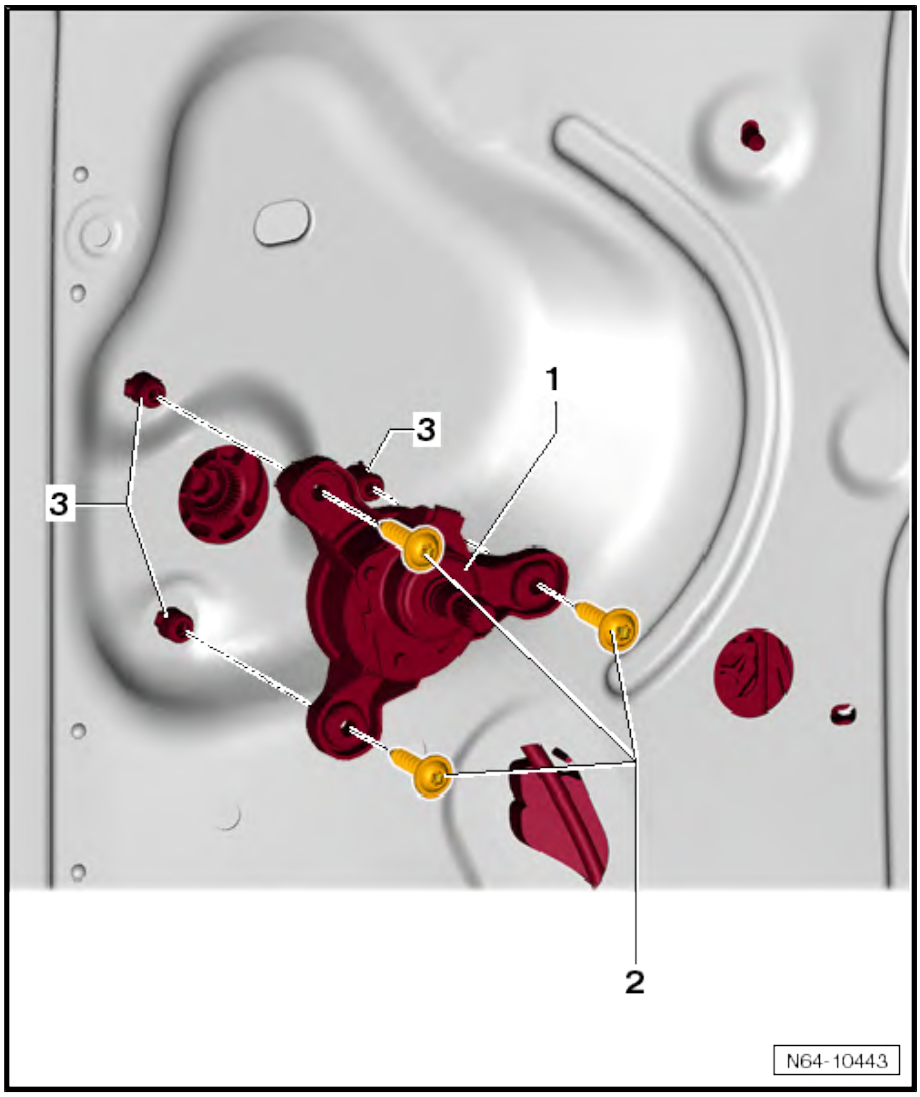
WARNING

On a newly installed window lifter motor (door control unit), the auxiliary functions must be coded!



- Fit the window lifter motor - 1 - on the supports of the hoisting drum - 3 -. Raise the door window slightly and then lower it so that the serration can slide in better between the motor and the cable drum.
- Install screws -2- (3 Nm).
- Secure the plug connections - 4 -.
- The new window lifter motor is coded.
- The further work procedure occurs in the reverse order to the removal.

2.13 Removing and installing the manual drive



Removing

– Remove window crank
⇒ “2.14 Removing and installing window crank”, page 115 .

– Removing door trim panel
⇒ “2.2 Removing and installing the rear door trim panel ”, page 259 .

– Secure the door window with adhesive tape so that it does not slide off.

– Unscrew screws -2-.

– Remove the manual drive - 1 - from the supports of the hoisting drum - 3 -.

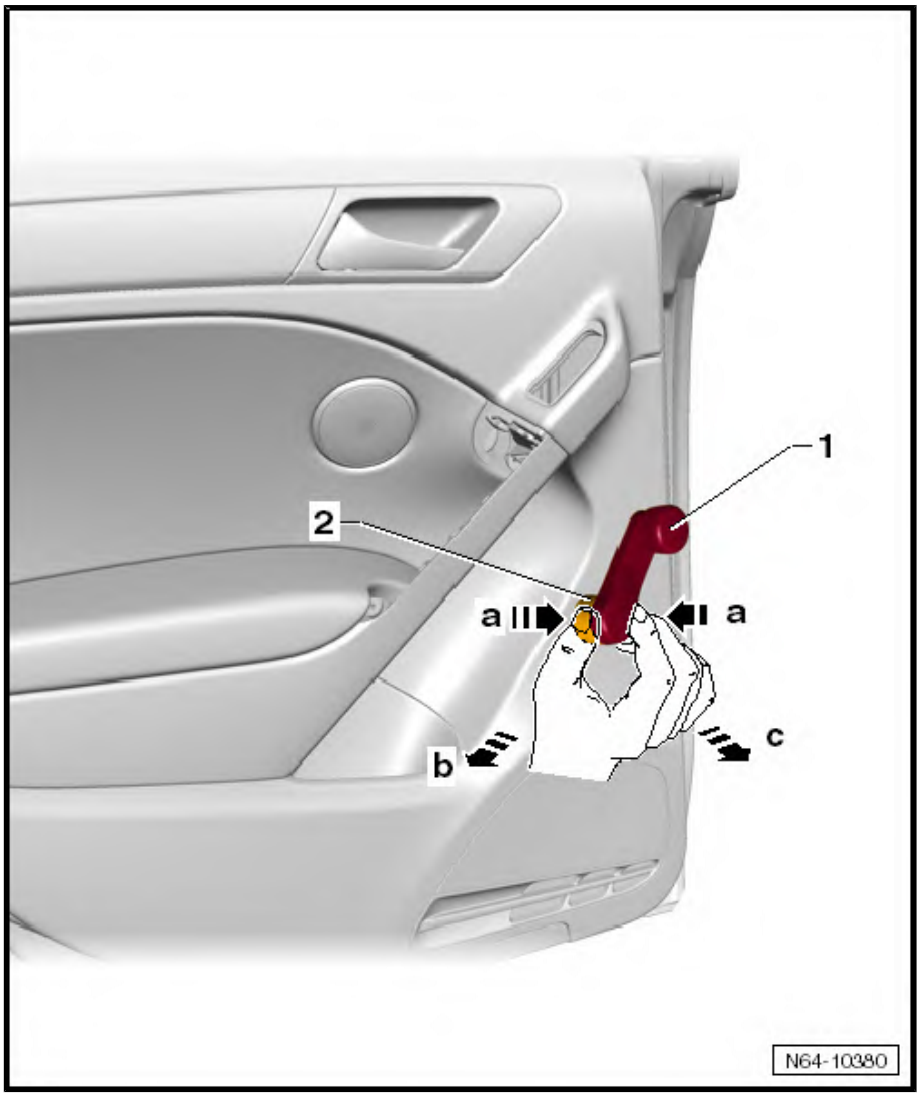
Installing

– Fit the manual drive - 1 - on the supports of the hoisting drum - 3 -. Raise the door window slightly and then lower it so that the serration can slide in better between the manual drive and the hoisting drum.

– Install screws -2- (3 Nm).

– The further work procedure occurs in the reverse order to the removal.

2.14 Removing and installing window crank



Removing

– Press together the circlip -2- -arrows a-.

– Pull the circlip - 2 - a little from below the window crank (Pos. 1) - arrow b - .

– Pull off window crank -1- -arrow c-.

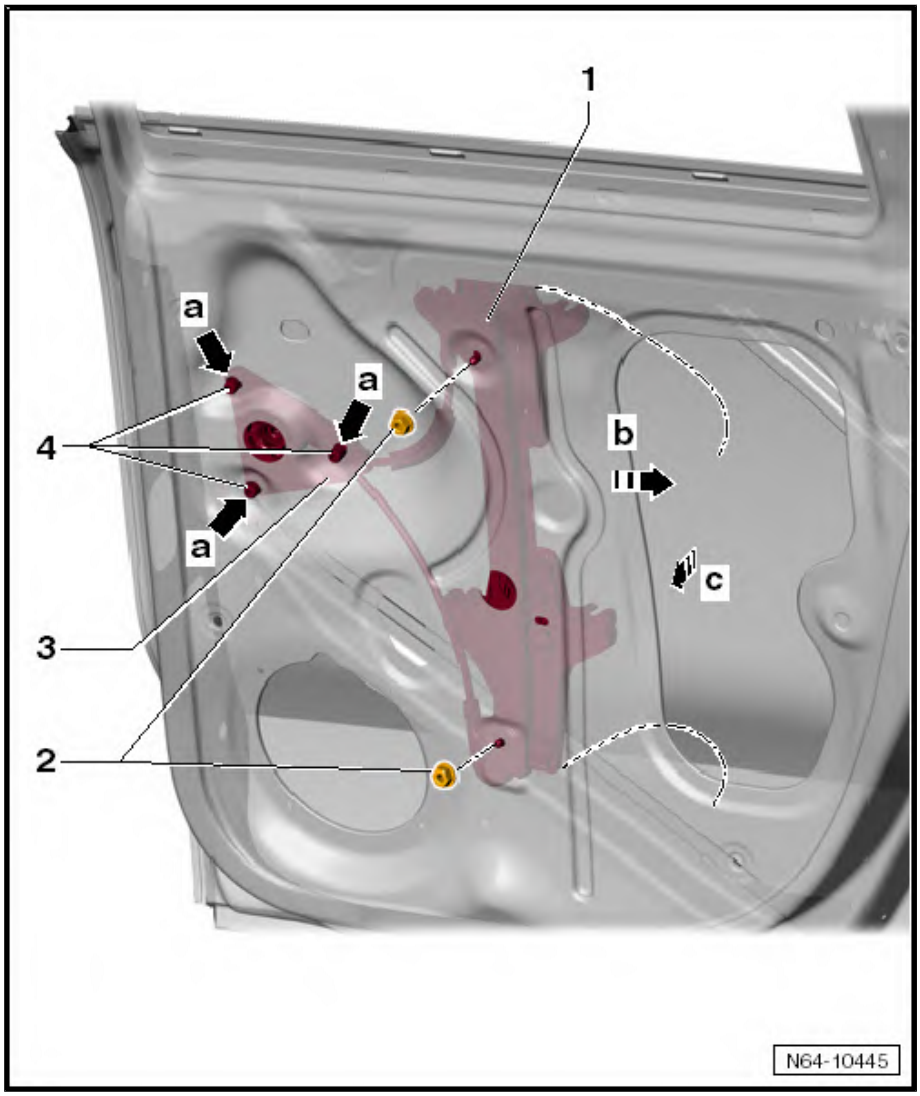
Installing

– Insert circlip - 2 -.

– Press on window crank - 1 -.

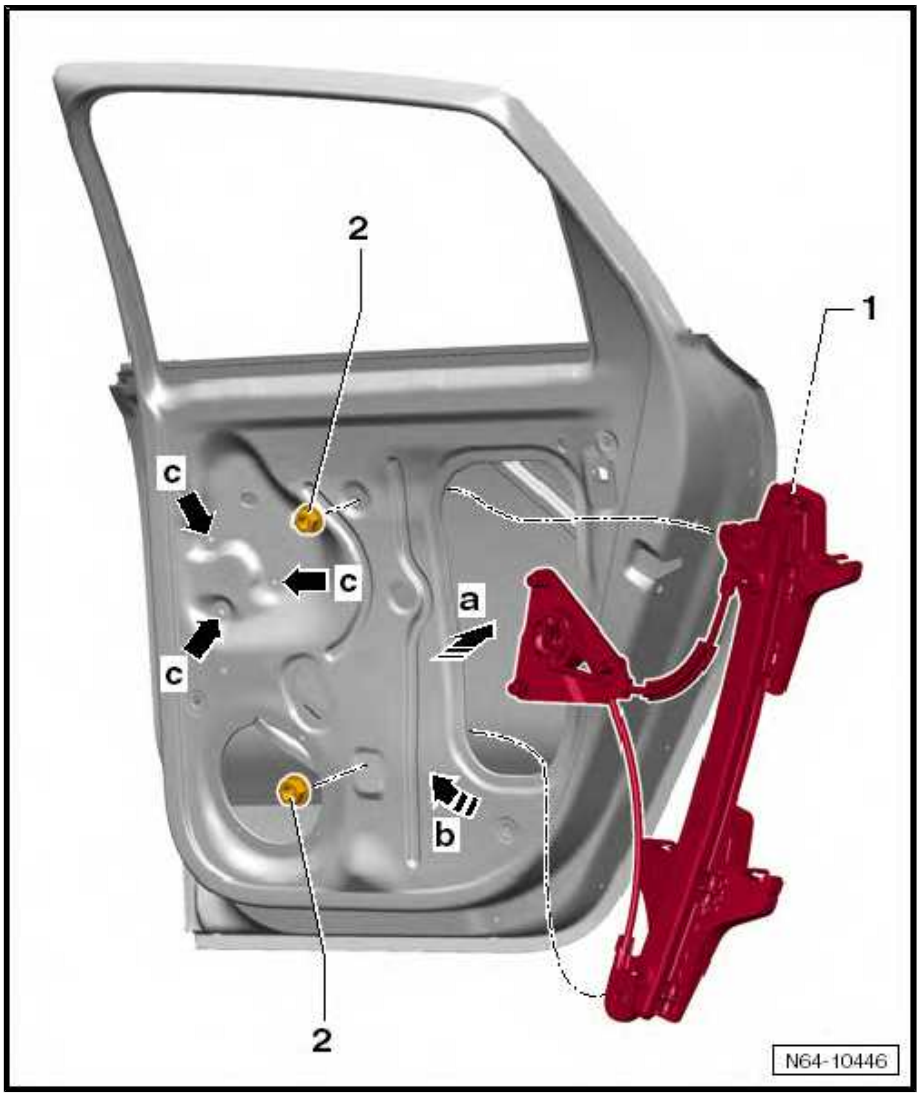
2.15 Remove and install window lifter

2.15.1 Removing



- Removing door trim panel
  ⇒ “2.2 Removing and installing the rear door trim panel ”, page 259 .
- Remove door window
  ⇒ “2.11 Removing and installing door window”, page 109 .
- Remove window lifter motor or manual drive
  ⇒ “2.12 Removing and installing window lifter motor”, page 112 .
- Unscrew nuts - 2 -.
- Unlock the catches -4- of the hoisting drum -3- and slide them into the door -arrows a-.
- Slide the window lifter - 1 - into the door.
- Slide the window lifter to the door cutout -arrow b- and take it out -arrow c-.

2.15.2 Installing



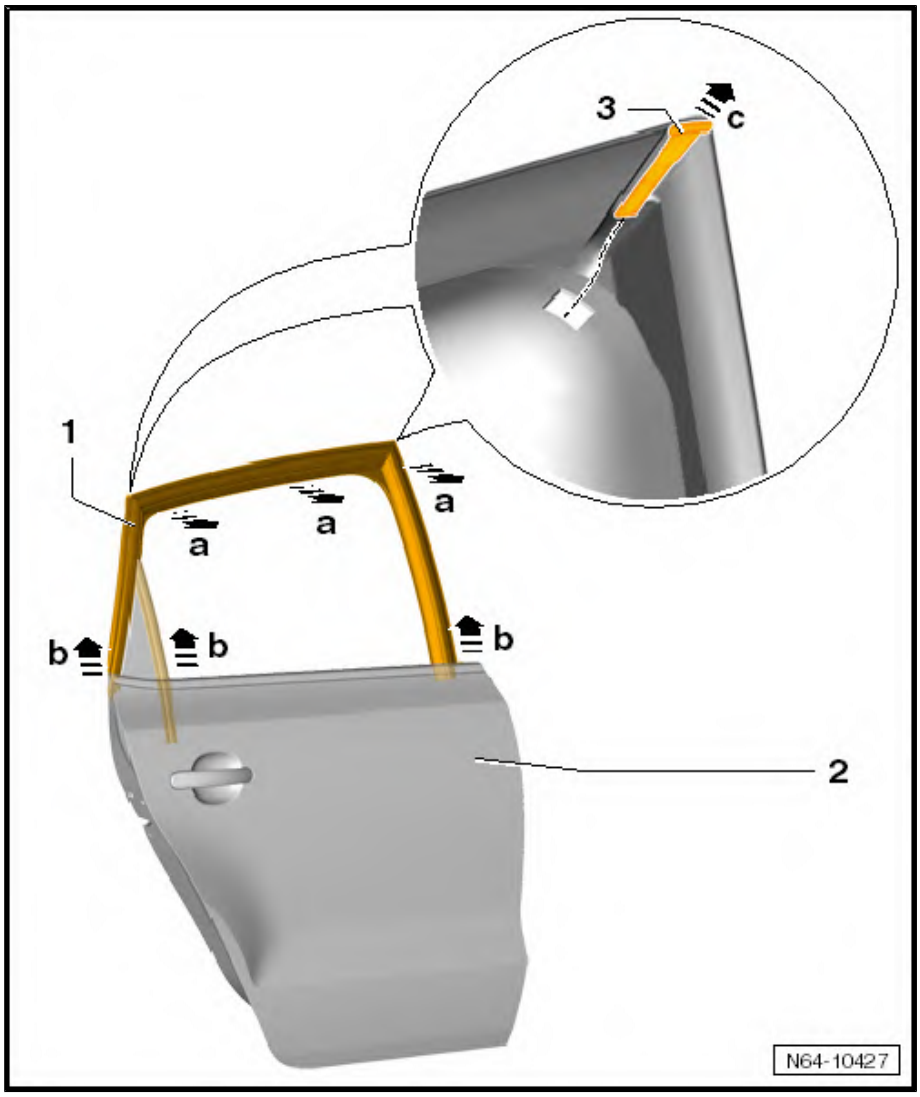
– Insert the window lifter -1- through the door cutout -arrow a-.
– Put the window lifter in its fitting position -arrow b-.
– Push the window lifter thread through the door and tighten the nuts - 2 - (6 Nm).
– Press the hoisting drum through the door openings -arrows c-, until the catches lock into position.

2.16 Removing and installing the window run

Note

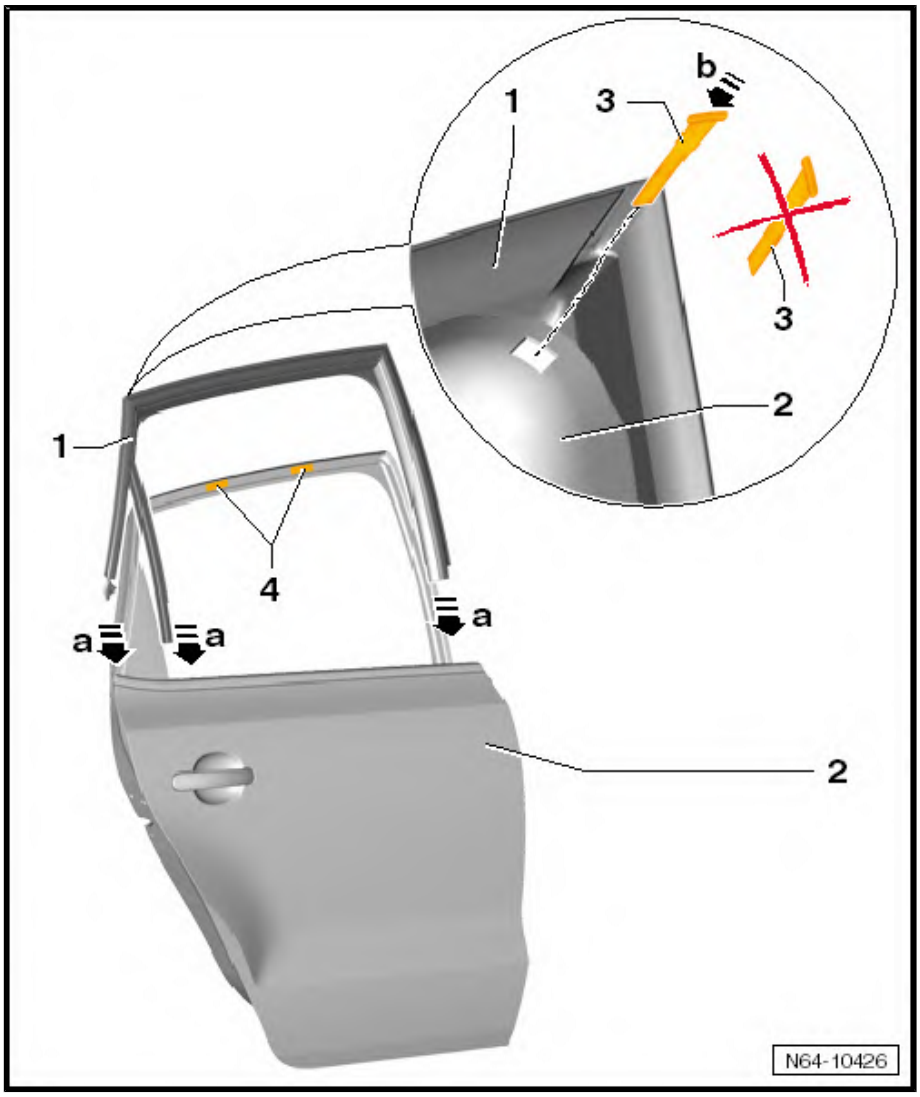
- *Before assembly the gasket contact surfaces must be coated with soapy water so that they can be moved easily and positioned on the flanges more accurately.*
- *Do not bend the window run when removing!*

2.16.1 Removing the window run



– Take the window run seal -1 - from the inside out of the window frame.
– Pull the window run -1- out of the supports in the door -arrows b-.
– Loosen both retaining clips -3- of the seal -1- from the door.
– Detach the seal -1- evenly -arrows a- from the door flange.

2.16.2 Installing



– The openings -4- under the window run must be masked with fabric adhesive tape.

Dimensions of adhesive: height = approx. 10 mm, width = approx. 40 mm. 2 pieces.

– Slide the window run -1- into the supports -arrows a-.

– Press the window run -1- evenly all around against the door flange -2-.

– Press the sealing lip of the door run from the inside against the door flange.

– Slide in the retaining clip -3- -arrow b-.

Note

- *The chamfer of the retaining clips must point to the inside of the vehicle.*
- *If the chamfer points to the outside of the vehicle, the -crossed-out red colour-, then the retaining clip must be turned around.*

- A functional check must be performed before installing the door trim panel.

2.17 Removing and installing the rear fixed door window

Removing

– Remove rear door window
⇒ “2.11 Removing and installing door window”, page 109 .

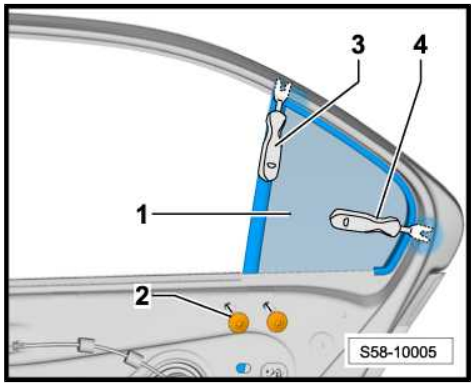
– Remove outer seal
⇒ “2.20 Removing and installing the outer window channel strip”, page 123 .

– Mask off the protective foil from the bolt holes -2-.

– Unscrew screws -2-.

– Partly remove window run
⇒ “2.16 Removing and installing the window run”, page 117 .

– Slide the seal on the inside of the fixed door window below the leg of the door frame so that the tools can be inserted on the provided point.



– Insert the tool T30116 - 3 - between the pane and the door frame towards the unlocking bolt (in position as shown in the illustration).

– Detach the fixed pane -1- slightly after releasing from the door frame.

– Insert the tool T10236 - 4 - between the pane and the door frame towards the unlocking bolt (in position as shown in the illustration).

– Detach the fixed pane -1- slightly after releasing from the door frame.

– Carefully push the fixed pane out of the door frame.

Installing

– Insert the fixed pane into the door frame.

– Insert the securing bolts into the openings in the door frame and clip in.

– Push the seal of the fixed pane over the door frame and correctly insert the pane.

– Install screws -2- (6 Nm).

– Stick over protective foil with bolt holes -2-.

– The further work procedure occurs in the reverse order to the removal.

Note

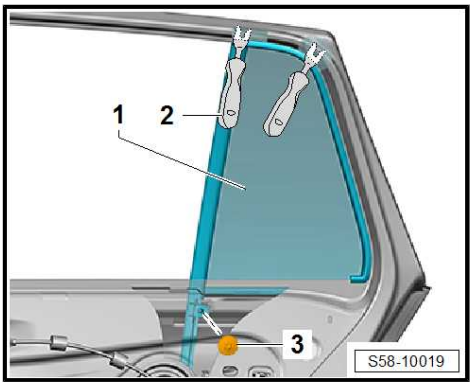
The securing bolts are component parts of the fixed pane. In case of damage, the fixed pane must be completely replaced.

2.18 Removing and installing the rear fixed door window (Spaceback)

Removing

– Remove rear door window
⇒ “2.11 Removing and installing door window”, page 109 .

– Remove outer seal
⇒ “2.20 Removing and installing the outer window channel strip”, page 123 .
– Mask off the protective foil from the bolt hole -3-.
– Unscrew screw -3-.
– Partly remove window run
⇒ “2.16 Removing and installing the window run”, page 117 .
– Slide the seal on the inside of the fixed door window below the leg of the door frame so that the tools can be inserted on the provided point.
– Insert the tool T30116 - 2 - between the pane and the door frame towards the first unlocking bolt (in position as shown in the illustration).
– Detach the fixed pane -1- slightly after releasing from the door frame.
– Insert the tool T30116 - 2 - between the pane and the door frame towards the second unlocking bolt (in position as shown in the illustration).
– Detach the fixed pane -1- slightly after releasing from the door frame.
– Carefully push the fixed pane out of the door frame.



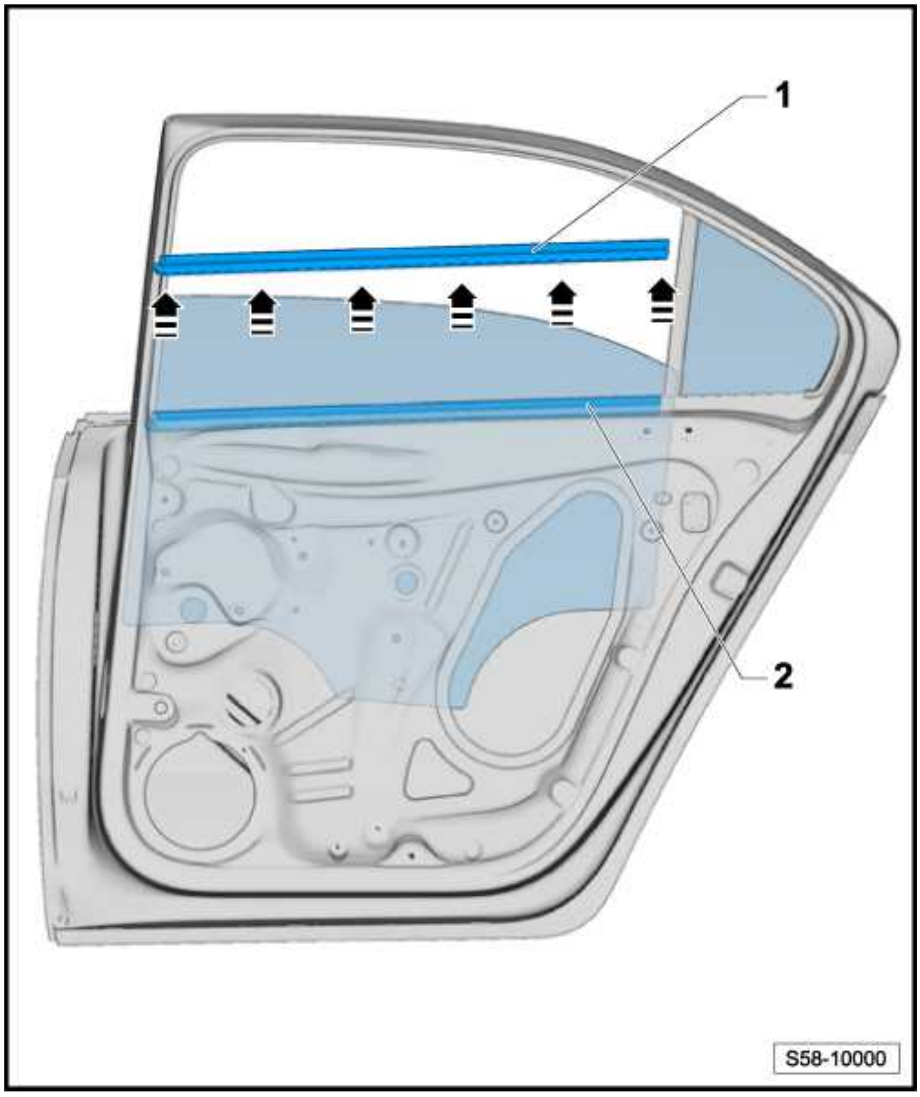
Installing

– Insert the fixed pane into the door frame.
– Insert the securing bolts into the openings in the door frame and clip in.
– Push the seal of the fixed pane over the door frame and correctly insert the pane.
– Screw in screw - 3 - (6 Nm).
– Stick protective foil over bolt hole - 3 -.
– The further work procedure occurs in the reverse order to the removal.

Note

The securing bolts are component parts of the fixed pane. In case of damage, the fixed pane must be completely replaced.

2.19 Removing and installing the inner window channel strip



Removing

– Remove rear door trim panel
⇒ “2.2 Removing and installing the rear door trim panel ”, page 259 .

– Detach window channel strip - 1 - evenly - arrows - from the flange - 2 -.

Installing

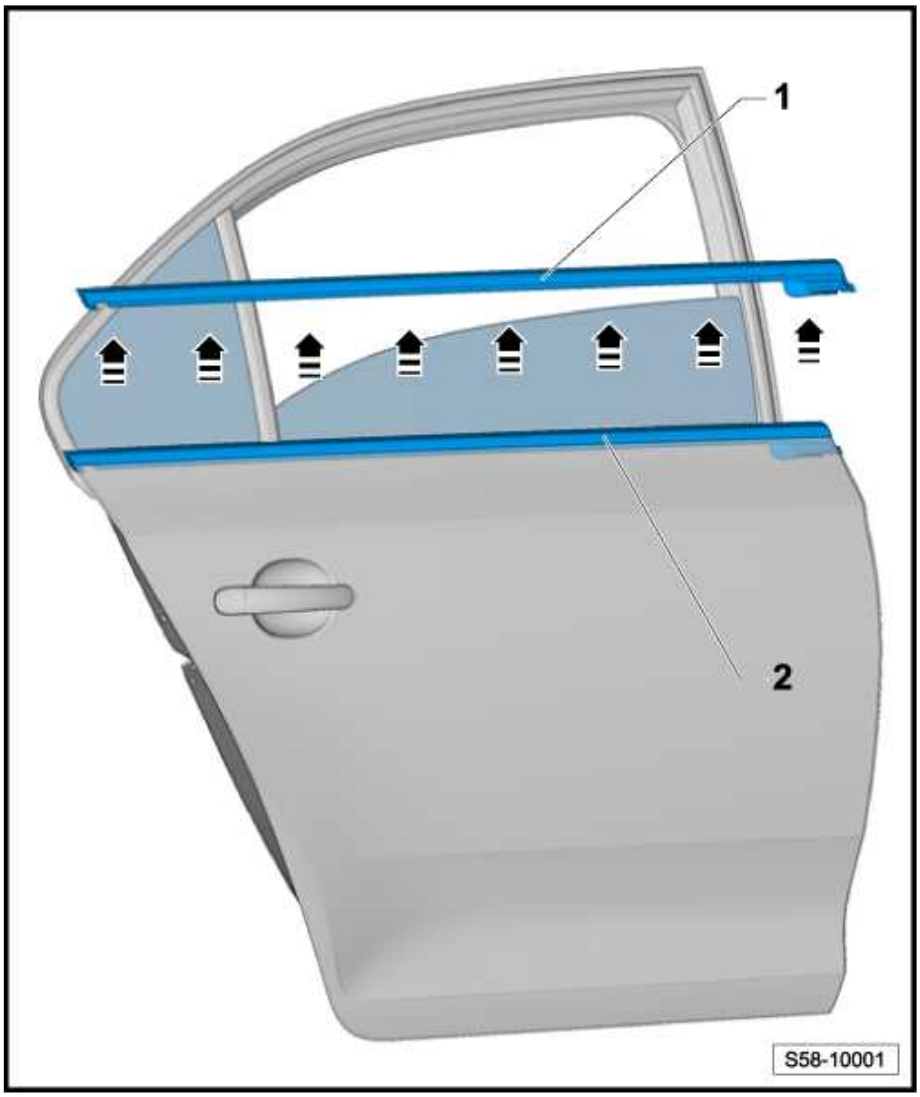
– Press the window channel strip - 1 - by hand evenly onto the flange - 2 -.

2.20 Removing and installing the outer window channel strip

2.20.1 Removing and installing

Note

- *The core of the seal consists of a metal insert. If it is bent, the seal can no longer be straightened. It remains “warped”.*
- *Therefore the seal must be removed uniformly and without bending it.*



Removing

– Detach window channel strip - 1 - evenly - arrows - from the flange - 2 -.

Installing

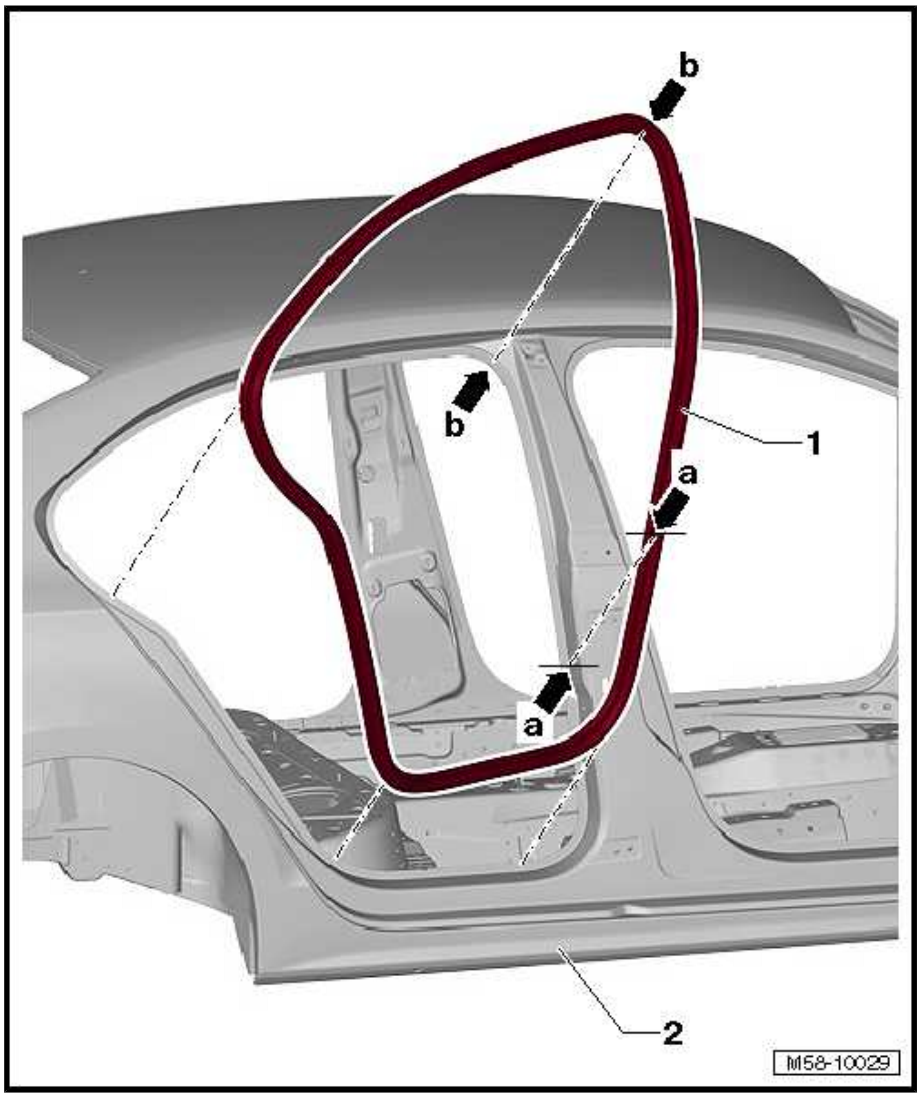
– Press the window channel strip - 1 - by hand evenly onto the flange - 2 -.

2.21 Removing and installing the inside door seal

During the installation in series, the inside door seals are provided with a sealing compound which is placed on the door flange and subsequently rolled up.

Note

- *During the removal of the seal, the sealing mass is distributed on the inside of the seal. While doing so, the sides are slightly bent open. If the seal is re-installed, leak-tightness and tight fit can no longer be guaranteed.*
- *For this reason, each seal which was completely removed must be replaced with a so-called "hammer finish seal".*
- *If the seals were detached partially, press together the sides of the seal before installing.*
- *Removing and installing is only carried out for the right inside door seal. The same applies therefore when removing and installing the left inside door seal.*



Removing

– Remove trim panels of pillars
⇒ “3 Trim panels of pillars”, page 263 .

– Detach the inside door seal - 1 - from the body flange - 2 -.

Installing

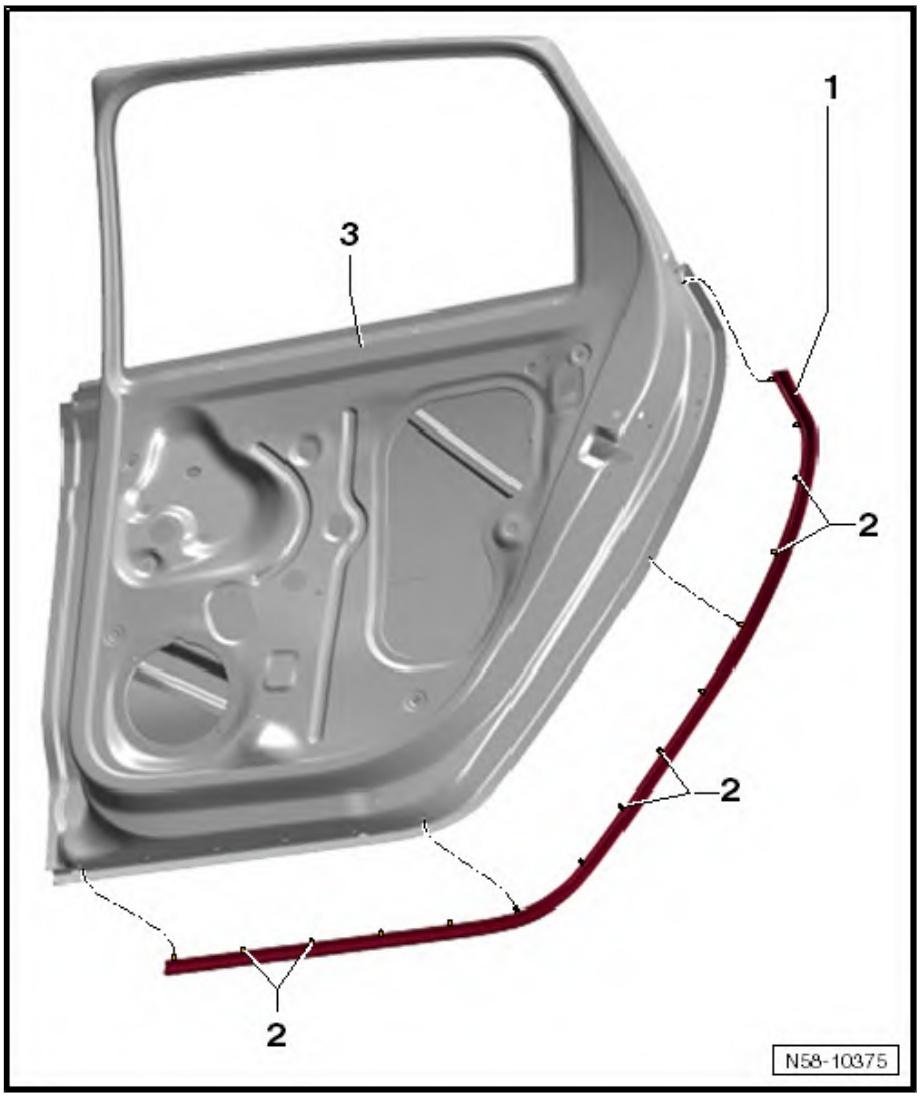
– When installing the inside door seal, start in the top radius of the door cutout -arrows b-.

– Sealing joint at the point -arrows a-.

2.22 Removing and installing the outside door seal

Note

Check the bracket -2- for damage, and replace where necessary.



Removing

– Unclip the clips - 2 - and remove the seal - 1 - from the door - 3 -.

Installing

– Press the seal - 1 - with the clips - 2 - on the door.

Note

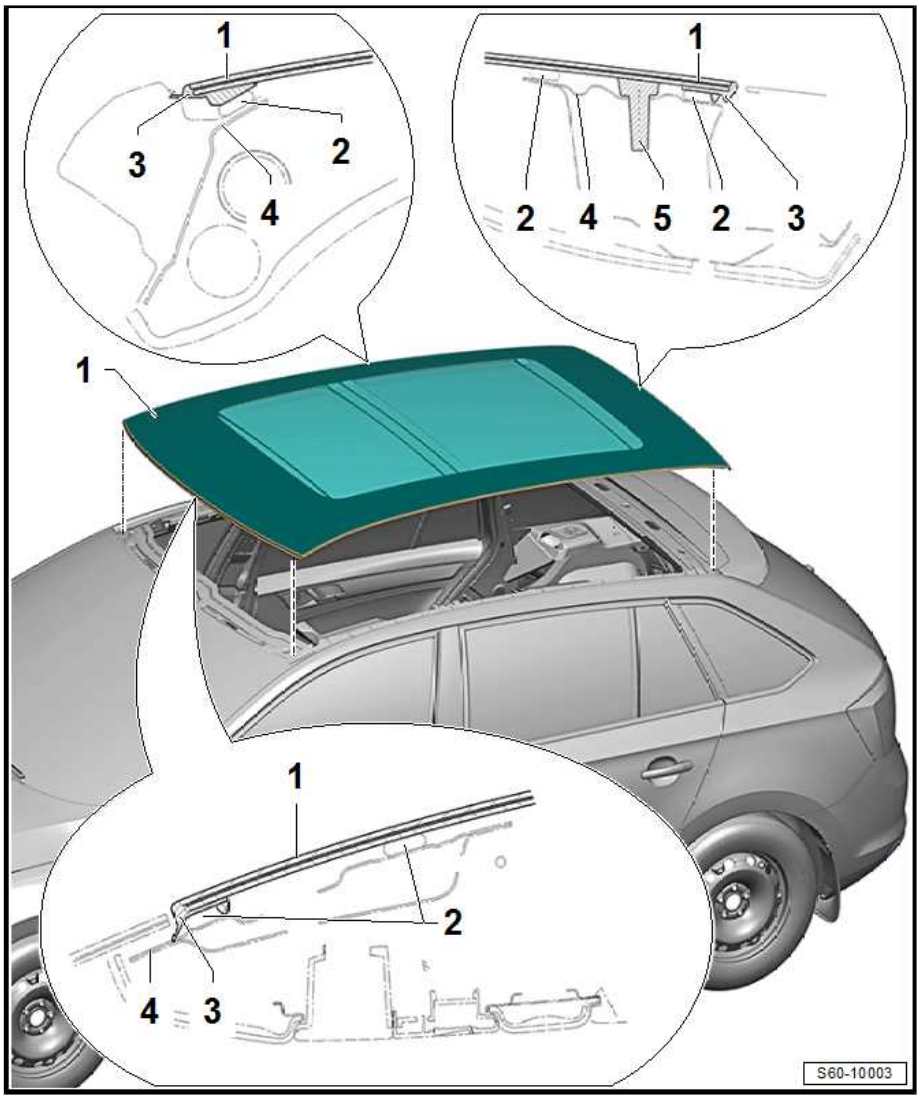
The seal - 1 - must rest directly at the seal of the window run.

60 – Sunroof

1 Panoramic roof

1.1 Summary of components of panoramic roof

1 - Window of panoramic roof
2 - Glue sealing material
3 - Gasket all the way around
4 - Body sheet profiles
5 - Fixing bolts



1.2 Removing and installing panoramic roof

WARNING

Wear protective goggles and gloves when cutting hardened PUR glue sealing material and when working with window and cutting cords.

Panoramic roof cannot be used again after being cut out. The all-round seal is damaged when cutting which cannot be replaced. At the same time, the moulding on the contact surface of the panoramic roof is also damaged.

Note

A second mechanic is required for removing and installing.

Special tools and workshop equipment required

- Separating device for glued windows (set), e.g. -V.A.G 1474/A- .
- Straightening knife e.g. -SB - 531- or glass scraper -SC - 170- .
- Cutting tool e.g. -V.A.G 1351- .
- Piercing needle e.g. -V.A.G 1474/2- .
- Cutting cord e.g. -357 845 955- .
- Cutting wire e.g. -357 853 999 B- .
- Cup suction tool e.g. -V.A.G 1344- .
- Cartridge heating box e.g. -V.A.G 1939A- .
- Compressed air pistol, e.g. -VAS 5237- .

Removing

– Remove the moulded headliner
⇒ “7 Moulded headliner”, page 282 .

– Cover the painted surfaces along the window with textile adhesive tape or protective film e.g. -V.A.G 1474/7- .

– Pierce glue sealing material with piercing needle in the rear corner.

– Pull through cutting cord and fasten the ends in the “ T ” holders.

– Cut through glue sealing material around the window.

– Remove window with the aid of suction cups.

Install panoramic roof

– Prepare flange for panoramic roof
⇒ “1.13 Prepare body flange for fitting”, page 155 .

– Prepare adhesive surface of the new panoramic roof
⇒ “1.12.2 Prepare new window for fitting ”, page 154 .

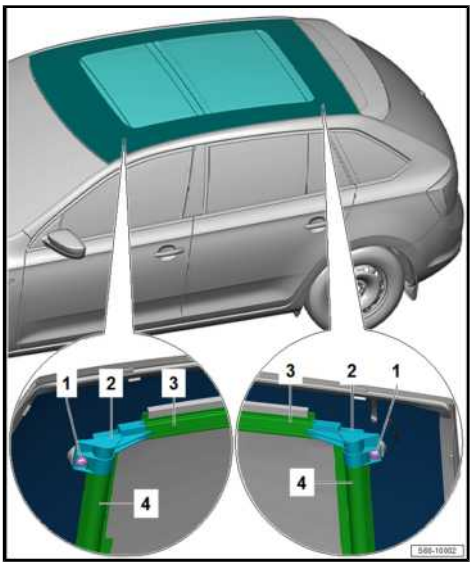
– Glue sealing materials ⇒ “3 Materials”, page 130 .

– Gluing on
⇒ “1.14 Installation instructions for all panes”, page 155 .

– Waiting time ⇒ “1.15 Minimum hardening time”, page 156 .

2 Removing and installing roof roller

Removing roof roller (front and rear)



– Remove the moulded headliner
⇒ “7 Moulded headliner”, page 282 .
– Slide blind up to the end position.
– Removing fixing screws for roof roller -1-.
– Push roof roller - 2 - out of the runner - 3 -.
– Remove roof roller - 4 -.

Installing

– The installation occurs in reverse order.

3 Materials

Note

The part numbers of the materials are provided in the ⇒ Electronic Catalogue of Original Parts - ETKA .

- 2K window pane adhesive 1) 1 2) 2 4) 4 6) 6
- 1K window pane adhesive 1) 1 2) 2 3) 3 5) 5
- Activator 1) 1
- Glass/paint primer 1) 1
- Cleaning solution 1) 1
- Primer applicator 1) 1
- Adhesive remover 1) 1

1) Observe the handling instructions in accordance with the specifications of the manufacturer in the package insert.

2) Observe minimum hardening time.

3) According to manufacturer's instructions heat up e.g. with cartridge heater - V.A.G 1939- .

4) Use for example the double cartridge gun - VAS 5237- for processing this material.

5) Small cartridges 180 ml for sealing work, or if 400 ml cartridge is not adequate.

6) When using a 2K window pane component adhesive, remove the first 10 cm of the pressed out adhesive in order to ensure the correct mixture of both components.

63 – Bumpers

1 Front bumper

1.1 Front bumper

Note

Depending on the model version, slight differences must be taken into consideration when removing and installing the front bumper.

1.1.1 Summary of components

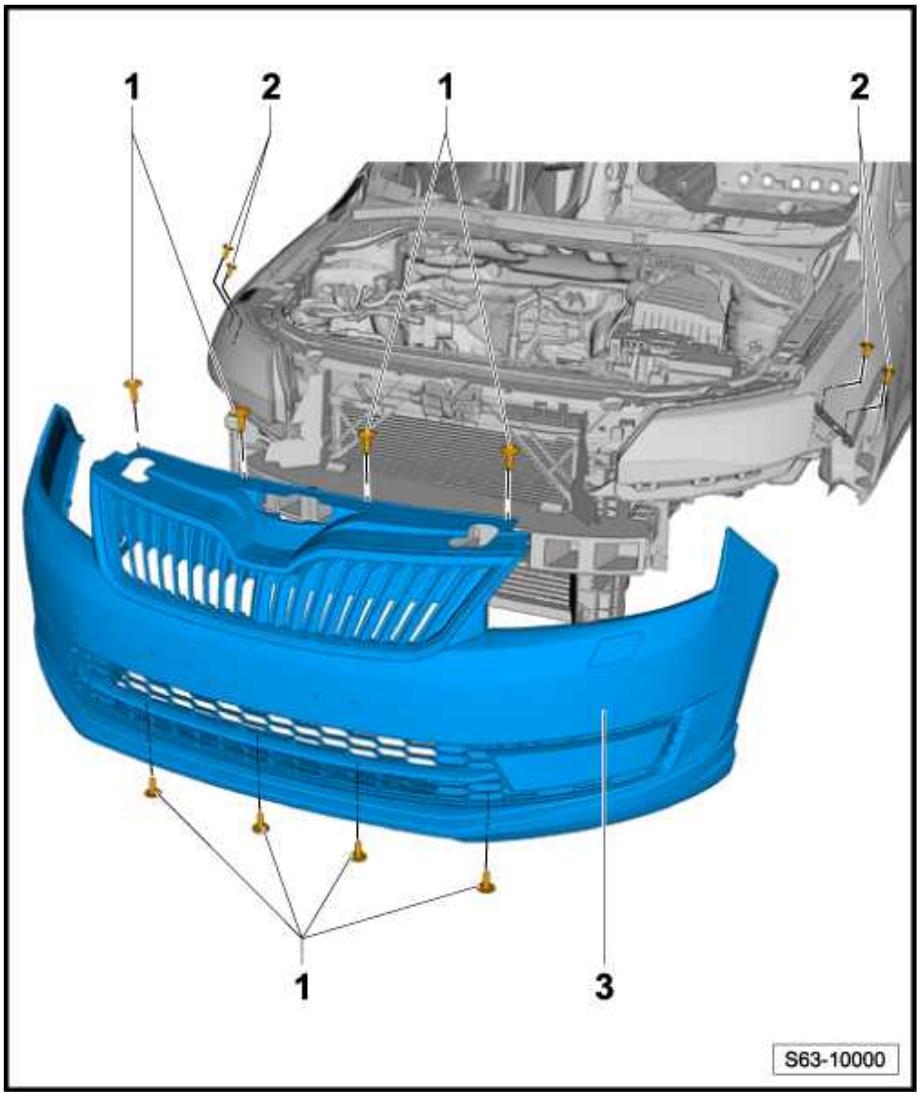
1 - Screws

- ❑ Tightening torque - 2 Nm.

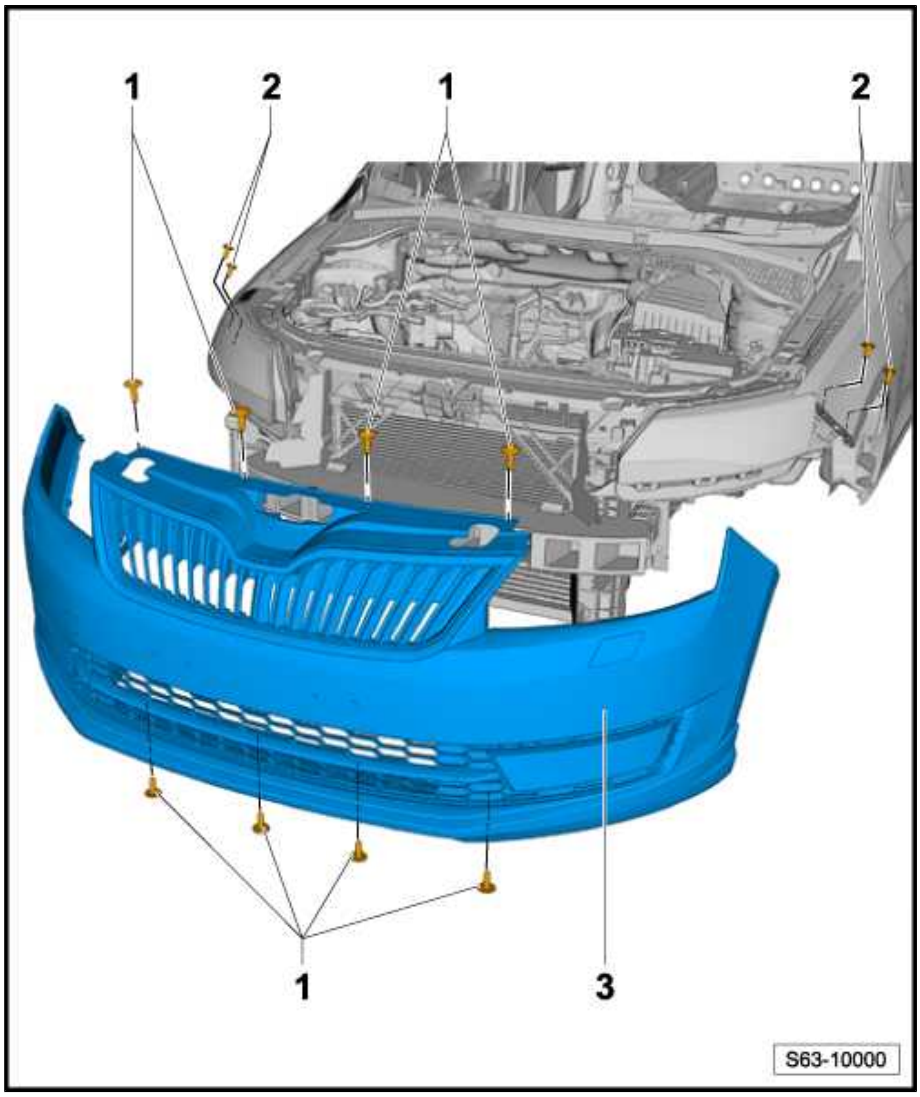
2 - Screw

3 - Front bumper

- ❑ Removing ⇒ “1.1.2 Removing”, page 132 .
- ❑ Installing ⇒ “1.1.3 Installing”, page 132 .



1.1.2 Removing



- Remove wheelhouse liners
  ⇒ “1.1 Front wheelhouse liner”, page 158 .
- Remove screws -1- (1,5 Nm).
- Remove screws -2- (3,5 Nm).
- Detach the front bumper from the left and right guide parts on the wing below the headlights.
- Slacken the bumper on the side guides.
- Detach the front bumper - 3 - parallel from the vehicle with the assistance of a 2nd mechanic.
- Disconnect the plug connections of the existing electrical components.
- Separate the hose connections from the hoses of the cleaning system (if present) ⇒ Electrical System; Rep. gr. 92 .

1.1.3 Installing

- The installation occurs in reverse order.

– Be mindful of parallelism and correct gap dimensions for the front bumper - 1 - ⇒ Body Repairs; Rep. gr. 00 ; Body gap dimensions; front body .

1.1.4 Front bumper - component parts

1 - Radiator grill

- ❑ Clipped into the bumper.

2 - Decorative frame

- ❑ Clipped into the bumper.

3 - Bumpers

- ❑ Removing ⇒ “1.1.2 Removing”, page 132 .
- ❑ Installing ⇒ “1.1.3 Installing”, page 132 .

4 - Left grid

- ❑ Clipped into the bumper.

5 - Left fog light

- ❑ Removing and installing ⇒ Electrical System; Rep. gr. 94 .

6 - Middle ventilation grid

- ❑ Clipped into the bumper.

7 - Right grid

- ❑ Clipped into the bumper.

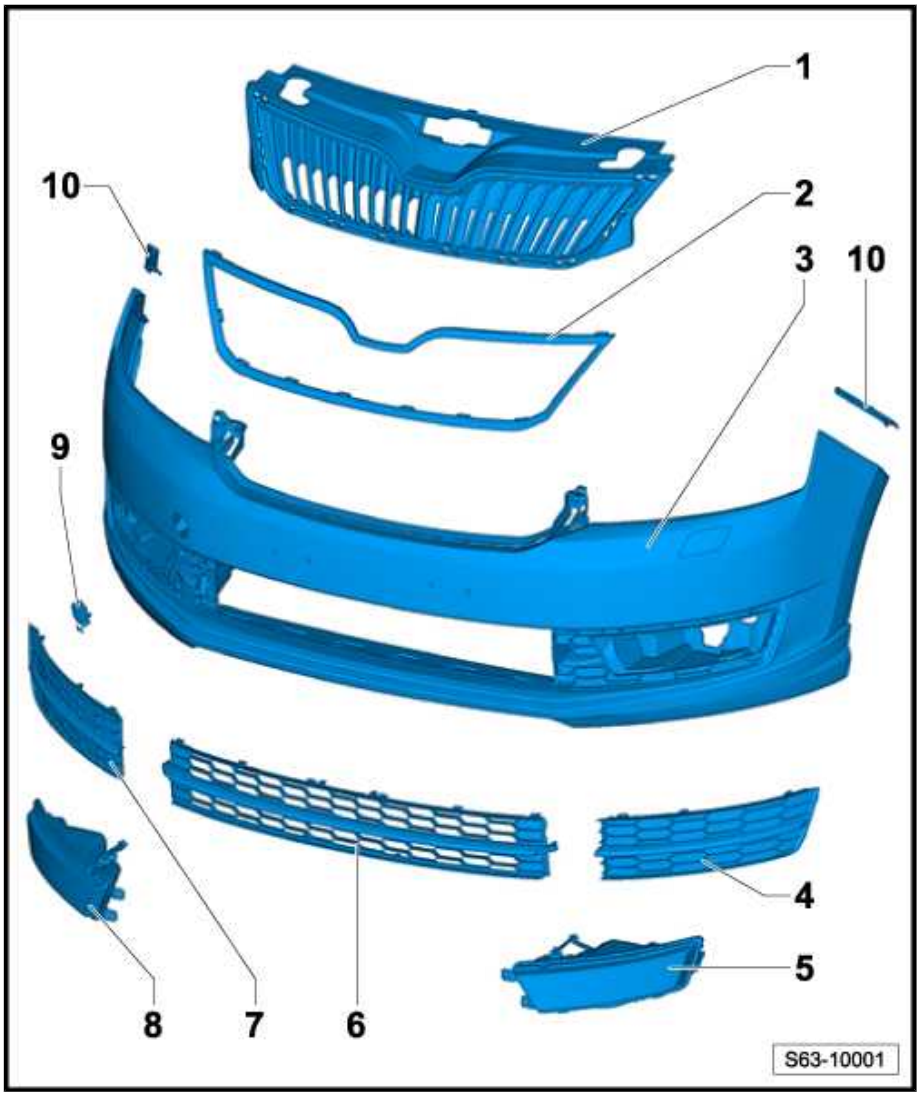
8 - Right fog light

- ❑ Removing and installing ⇒ Electrical System; Rep. gr. 94 .

9 - Cap

- ❑ Cover for towing lug.

10 - Bumper mount



Volkswagen Technical Site: http://vwts.ru http://vwts.info

1.2 Front bumper bracket

1.2.1 Summary of components

1 - Front bumper bracket

Removing and installing

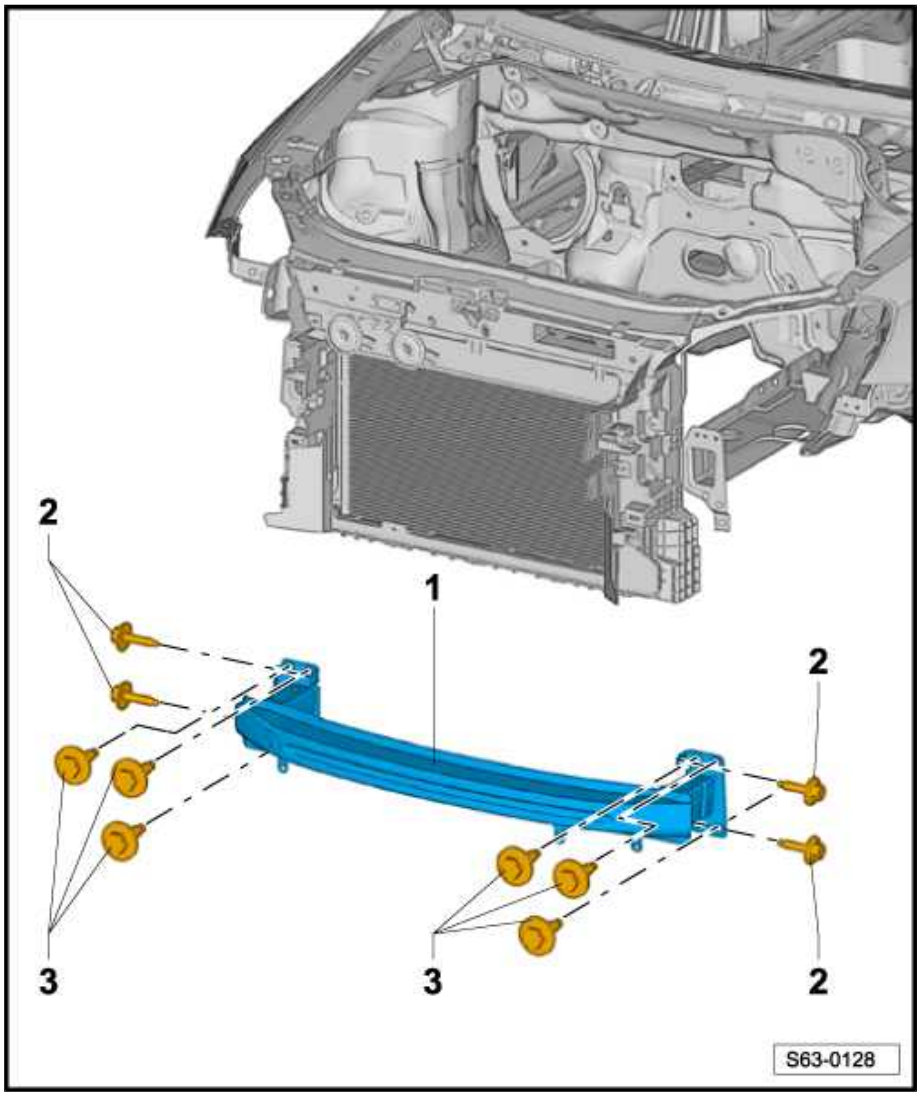
- Removing front bumper ⇒ “1.1.2 Removing”, page 132 .
- Remove impact absorber.
- Unscrew screws -2-.
- Unscrew screws -3-.

2 - Screw

❑ Tightening torque - 8 Nm.

3 - Screw

❑ Tightening torque - 20 Nm.



2 Rear bumper

2.1 Rear bumper

Note

Depending on the model version, slight differences must be taken into consideration when removing and installing the rear bumper.

2.1.1 Summary of components

1 - Centre guide section

2 - Nut

- ❑ Tightening torque - 2.2 Nm.

3 - Nut

- ❑ Tightening torque - 20 Nm.

4 - Bumper bracket (depending upon vehicle equipment)

Removing
⇒ "2.2 Rear bumper bracket and runners", page 137 .

5 - Screw

- ❑ Tightening torque - 2 Nm.

6 - Rear bumper

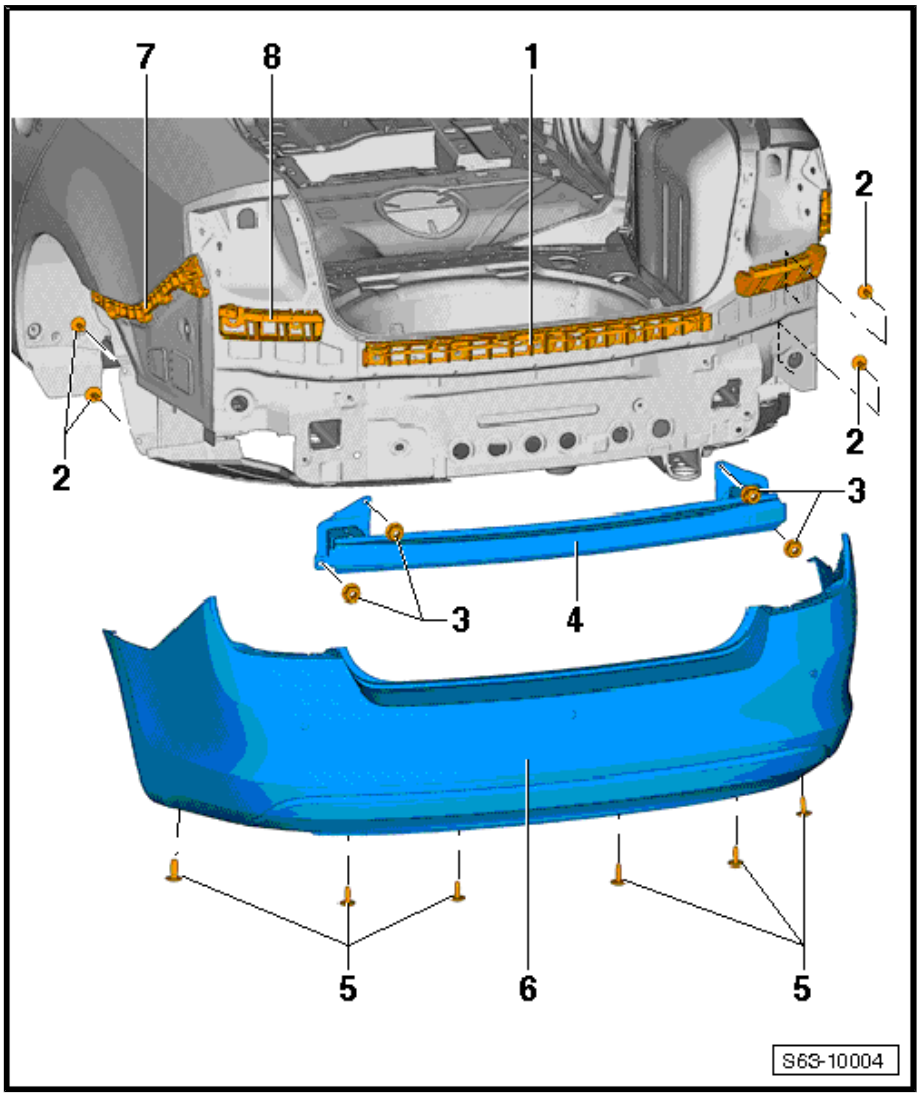
- ❑ Removing and installing ⇒ "2.1.2 Remove the rear bumper", page 136 .

7 - Lateral guide section

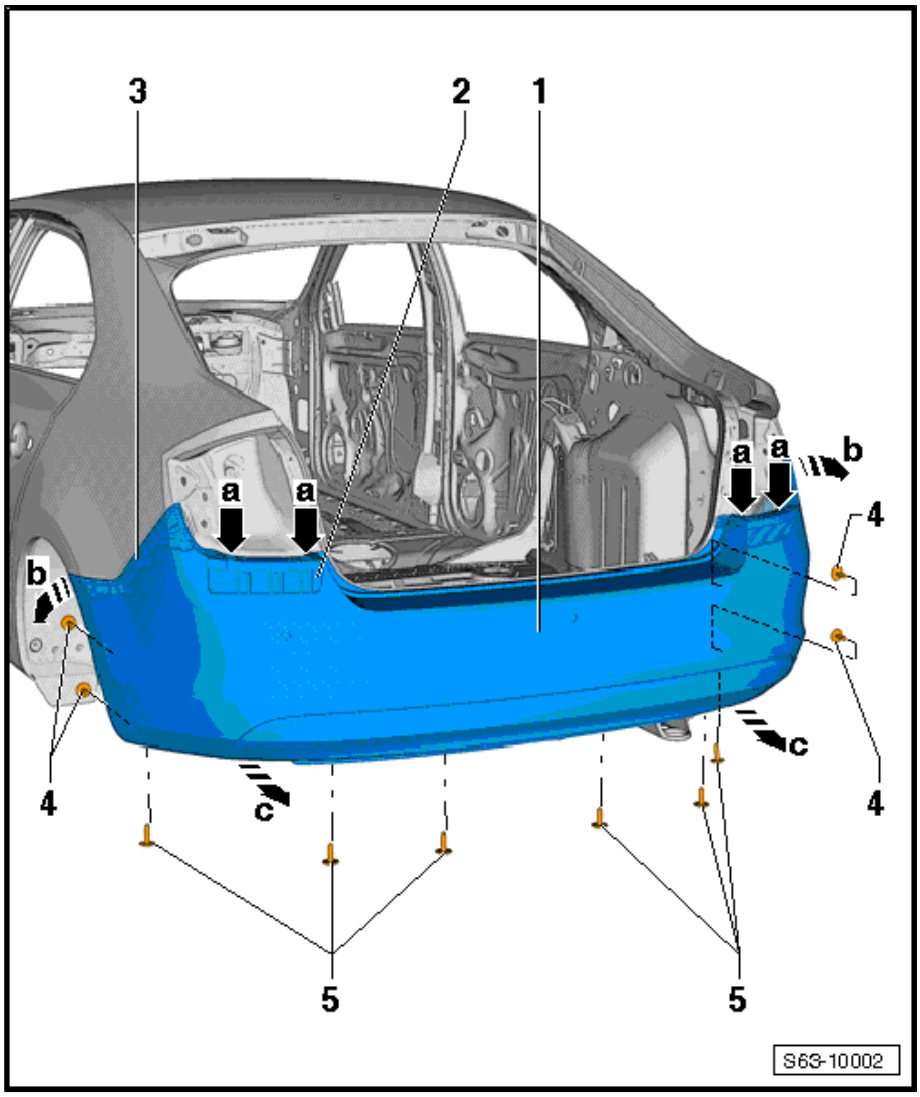
- ❑ Screwed together with the side part.

8 - Guide section

- ❑ Tightening torque - 2.2 Nm.



2.1.2 Remove the rear bumper



- Remove tail lights ⇒ Electrical System; Rep. gr. 94 .
- Remove the screws -4- in the area of the left and right wheelhouse.
- Remove the screws -5- from below.
- Unclip the rear bumper - 1 - out of the catches of the lateral guides (Pos.3) - arrow b -.
- Carry out further installation only with the assistance of a second mechanic.
- Slacken the catches -arrows a- at the top guides -2-.
- Detach the rear bumper -1- parallel from the vehicle -arrows c-.
- Disconnect the plug connections of the existing electrical components.

2.1.3 Installing the rear bumper

- Attach the existing plug connections.

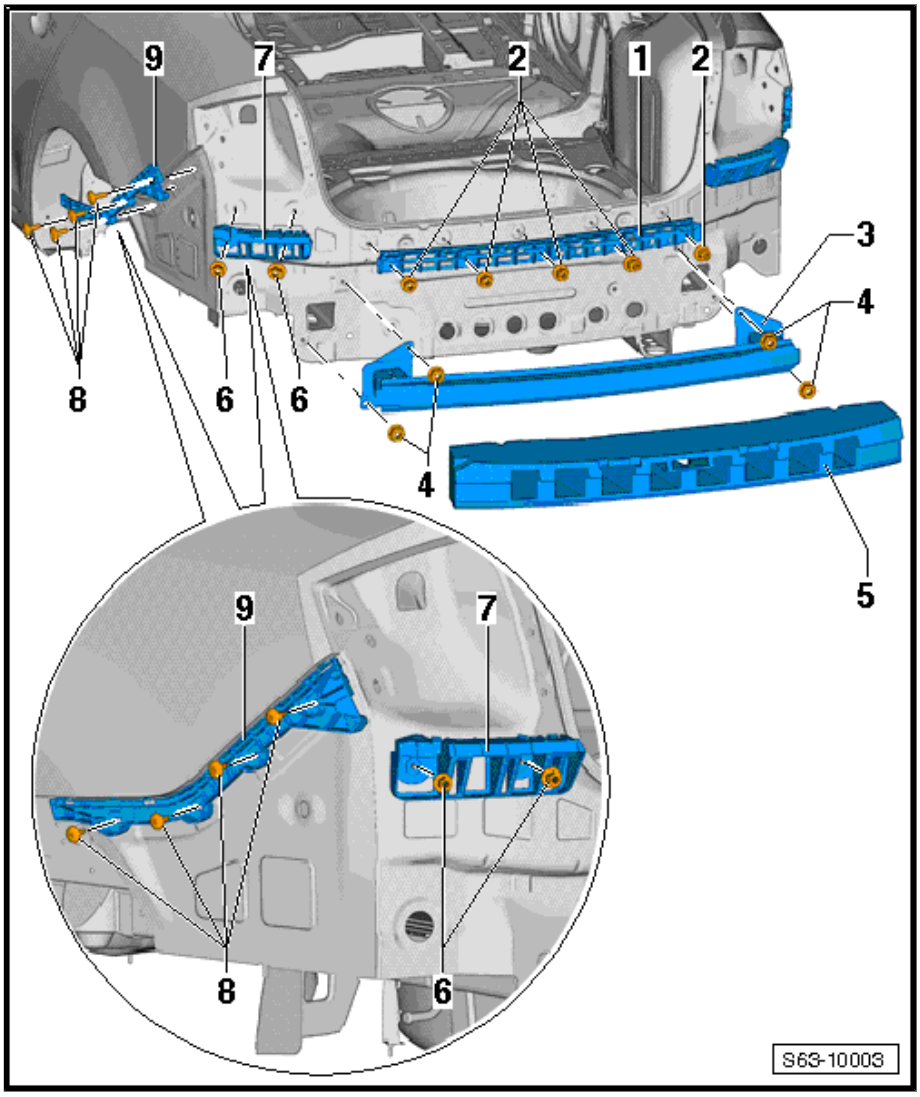
– Position the rear bumper with the assistance of a second mechanic.

Note

When fitting the rear bumper, make sure to guide it parallel at the left and right guide sections.

– Press the rear bumper onto the centre guide section and the left and right guide section until they lock audibly together.
– Observe the parallelism and the correct gap sizes ⇒ Body Repairs; Rep. gr. 00; Rozměry spár karoserie; zadní část karoserie .
– Position screws and tighten ⇒ “2.1.1 Summary of components”, page 135 .

2.2 Rear bumper bracket and runners



1 - Centre guide section

Removing

– Remove the rear bumper ⇒ “2.1.2 Remove the rear bumper”, page 136 .
– Release the nuts ⇒ Item 2 (page 137) .
– Remove the bumper bracket from the vehicle.

Installing

– The installation occurs in reverse order.

2 - Nut

❑ Tightening torque - 2.2 Nm.

3 - Bumper bracket (depending upon vehicle equipment)

Removing

– Remove the rear bumper ⇒ “2.1.2 Remove the rear bumper”, page 136 .
– Release the nuts ⇒ Item 4 (page 138) .
– Remove the bumper bracket from the vehicle.

Installing

– The installation occurs in reverse order.

4 - Nut

- ❑ Tightening torque - 20 Nm.

5 - Impact absorber (depending upon vehicle equipment)

- ❑ Secured with double-sided adhesive tape.

6 - Nut

- ❑ Tightening torque - 2.2 Nm.

7 - Guide section

Removing

- – Remove the rear bumper ⇒ “2.1.2 Remove the rear bumper”, page 136 .
- – Release the nuts ⇒ Item 6 (page 138) .
- – Remove the guide section from the vehicle.

Installing

- – The installation occurs in reverse order.

8 - Screw

- ❑ Tightening torque - 2.2 Nm.

9 - Lateral guide section

Removing

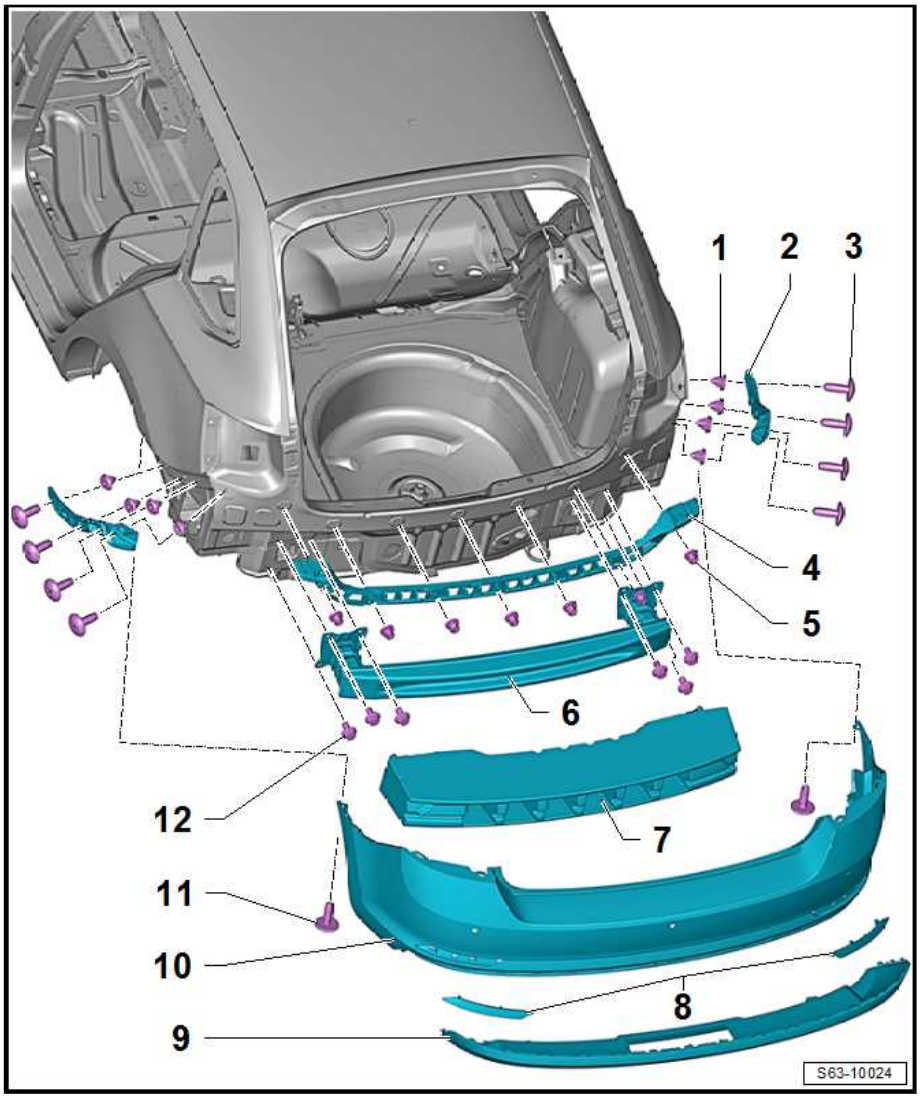
- – Remove the rear bumper ⇒ “2.1.2 Remove the rear bumper”, page 136 .
- – Release screws ⇒ Item 8 (page 138) .
- – Remove the guide section from the vehicle.

Installing

- – The installation occurs in reverse order.

3 Rear bumper (Spacebook)

Summary of components



1 - Spacer sleeve for screw

2 - Lateral guide section

3 - Screw

- Tightening torque - 2.2 Nm.

4 - Rear guide profile

5 - Nut

- Tightening torque - 2.2 Nm.

6 - Bumper bracket (depending upon vehicle equipment)

Removing

- Remove the rear bumper ⇒ “2.1.2 Remove the rear bumper”, page 136 .
- Release screws ⇒ Item 12 (page 139) .
- Remove the bumper bracket from the vehicle.

Installing

- The installation occurs in reverse order.

7 - Impact absorber (depending upon vehicle equipment)

❑ Secured with double-sided adhesive tape.

8 - Rear reflector

- Clipped into the bumper.
- The removal and installation is possible without removing the bumper.

9 - Spoiler

- Clipped into the bumper.
- Remove the bumper for the removal procedure ⇒ “2.1.2 Remove the rear bumper”, page 136 .

10 - Rear bumper

- Removing and installing ⇒ “2.1.2 Remove the rear bumper”, page 136 .

11 - Screw

- Tightening torque - 2 Nm.

12 - Screw

- Tightening torque - 20 Nm.

4 Cutting out the openings for the parking aid sensors (drill)

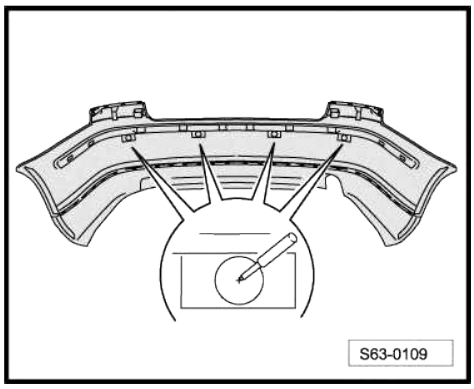
Predrill the openings

Note

Avoid damage to the painted bumper side!

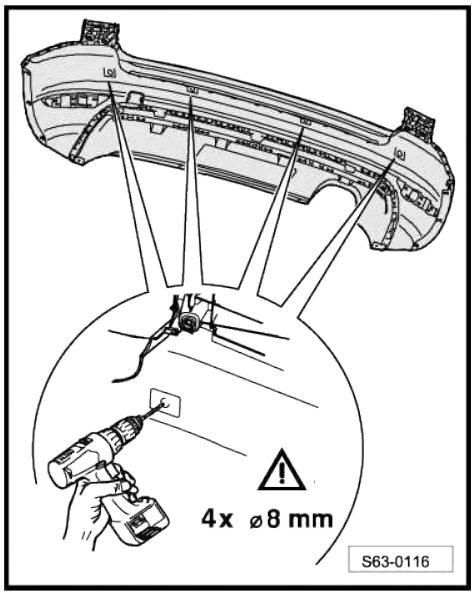
– Removing the bumper ⇒ “2.1 Rear bumper”, page 135 .

– In the area of the sketched out axle crosses, mark the centres for drilling four openings using a suitable tool.

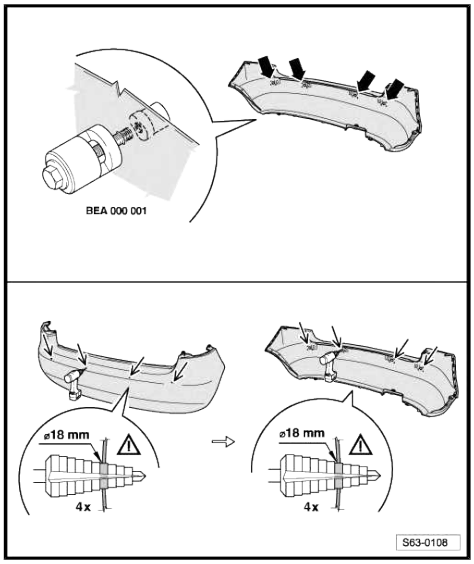


– Drill the openings with a diameter of 8 mm.

Openings for the sensors



- Use the cutting tool BEA 000 001 to cut out the opening (diameter 18 mm).
- Use a step drill in order to drill the openings.
- First of all make the openings from the outer side of the bumper when using a step drill. Complete the work step from the inner side of the bumper.
- Trim the openings in a suitable manner in order to avoid damage to the paintwork.
- The glueing procedure of new sensor holders is described in the workshop manual ⇒ Electrical System; Rep. gr. 94 .
- After installing the sensors, install the bumper ⇒ “2.1 Rear bumper”, page 135 .



64 – Glazing

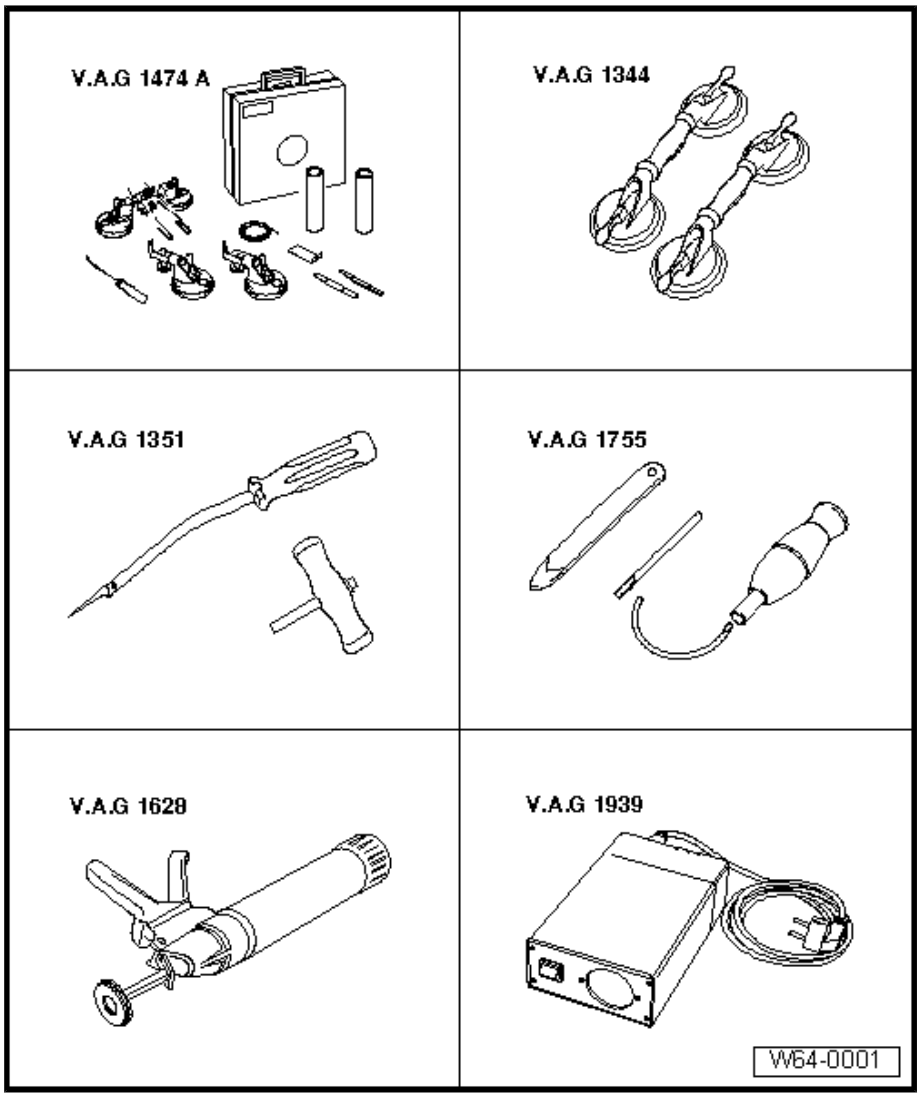
1 Glued windows

1.1 Tools

Note

The removal of the glued windows is described in the separating device for glued windows - V.A.G 1474 A- . The corresponding tools from the separating device for glued windows - VAS 6452- can also be used or use the window removal set -VAS 6888- .

Special tools and workshop equipment required



- Separating device for glued windows - V.A.G 1474 A- , separating device for glued windows - VAS 6452- or separating device for glued windows - VAS 6888- or separating device for glued windows - VAS 861 001- .
- Suction cup - V.A.G 1344-

- Cutting tool - V.A.G 1351-
- Window removal set - V.A.G 1755-
- Hand pressure gun - V.A.G 1628-
- Cartridge heater - V.A.G 1939-
- Power knife - V.A.G 1561 A-
- Cutting knife - V.A.G 1561/2-
- Cutting knife - V.A.G 1561/8-
- Setting gauge - 3371-
- Cutting knife - V.A.G 1561/19-
- Double cartridge gun - VAS 5237-
- Cutting thread - 357 853 999 B-
- Cutting cord - 357 845 955-

1.2 Materials

Note

The part numbers of the materials are provided in the ⇒ Electronic Catalogue of Original Parts - ETKA .

- 2K window pane adhesive 7) 1 8) 2 10) 4 12) 6
- 1K window pane adhesive 7) 1 8) 2 9) 3 11) 5
- Activator 7) 1
- Glass/paint primer 7) 1
- Cleaning solution 7) 1
- Primer applicator 7) 1
- Adhesive remover 7) 1

7) Observe the handling instructions in accordance with the specifications of the manufacturer in the package insert.

8) Observe minimum hardening time.

9) According to manufacturer's instructions heat up e.g. with cartridge heater - V.A.G 1939- .

10) Use for example the double cartridge gun - VAS 5237- for processing this material.

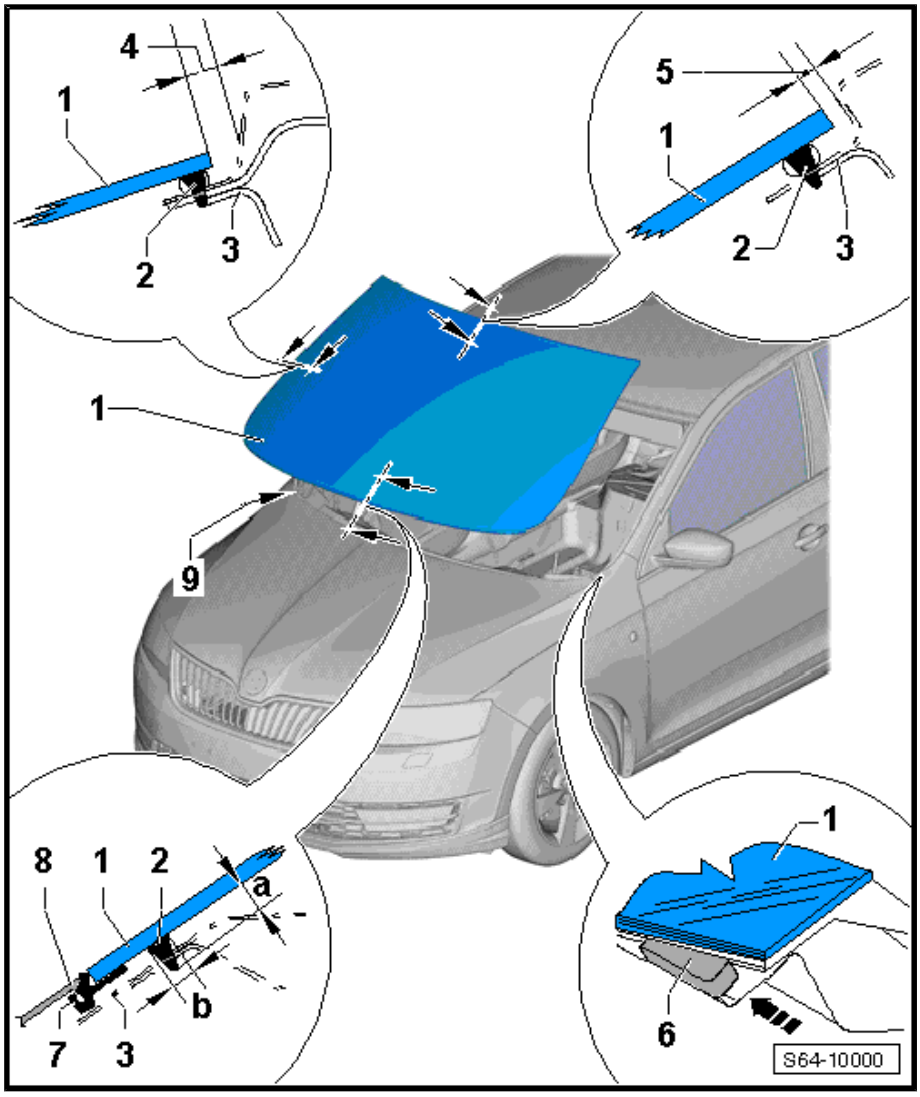
11) Small cartridges 180 ml for sealing work, or if 400 ml cartridge is not adequate.

12) When using a 2K window pane component adhesive, remove the first 10 cm of the pressed out adhesive in order to ensure the correct mixture of both components.

1.3 Windscreen - Summary of components

WARNING

For safety reasons, re-using a cut-out windscreen is not permissible. The windscreen must always be replaced with a new original part. The cut-out rear and side windows can be re-used after a thorough inspection.



1 - Windscreen

- ❑ Remove windscreen ⇒ “1.4 Removing windscreen”, page 144 .
- ❑ Install windscreen ⇒ “1.4.1 Installing windscreen”, page 146 .

2 - PUR - glue sealing material

- ❑ Adhesive bead cross-section -width b- = 6 - 8 mm, - height a - = 10 - 12 mm (including the sealing section, residual sealant on window and window flange).
- ❑ Minimum hardening time ⇒ “1.15 Minimum hardening time”, page 156 .

3 - Body flange

4 - Gap size

- ❑ From the lateral window edge up to the A pillar.
- ❑ Set the constant dimension of 2.5 ± 0.5 mm with the setting gauge - 3371- .

5 - Gap size

- ❑ From the top window edge up to the roof edge.
- ❑ Set the constant dimension of 2.5 ± 0.5 mm with the setting gauge - 3371- .

6 - Window pane adjuster

- ❑ Remove the window pane adjuster at the earliest 120 minutes after installing the window pane.

7 - Fitting section

- ❑ Is part of the windscreen.

8 - Plenum chamber cover

- ❑ It must only be pulled from the fitting section by hand.
- ❑ Remove the plenum chamber cover ⇒ “1.8 Plenum chamber cover”, page 13 .
- ❑ Install plenum chamber cover ⇒ “1.8.3 Installing”, page 15 .

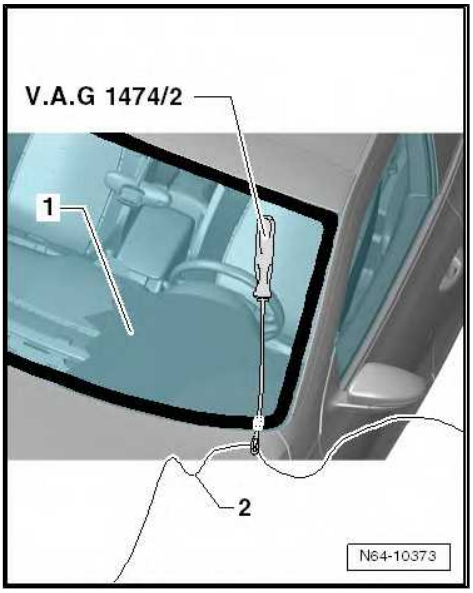
1.4 Removing windscreen

– Remove A-pillar trim panel ⇒ “3.1 Removing and installing top trim panel of pillar A”, page 263 .

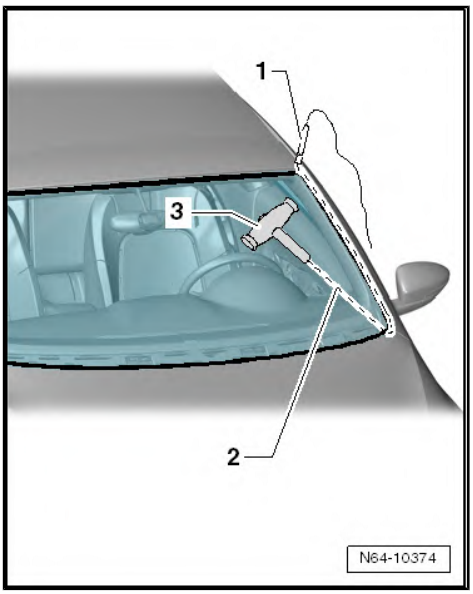
– Remove all sun visors ⇒ “2.6 Removing and installing the sun visor”, page 208 .

– Removing interior rear-view mirror ⇒ “1.2 Removing and installing the interior rear-view mirror”, page 197 .

– The moulded headliner can now be lowered sufficiently so that the windscreen can be cut out without damaging the moulded headliner.
– Remove the plenum chamber cover
⇒ “1.8 Plenum chamber cover”, page 13 .
– Slide the cover foil - 1 - between the windscreen and the dash panel.
– Pull the end of the cutting thread - 2 - through the sealing material into the vehicle interior using the awl.



– Secure the end of the cutting thread with clip - 3 - against pulling out.
– Insert the cutting thread - 2 - with the help of the pipe - 1 - into the window frame.
– Lay the cutting thread around the windscreen.
– Ensure that the cutting thread is laid at the corners under the windscreen.



– Attach the other end of the thread to the spooler.
– Position the spooler in “position I”.
– Move the spooler gradually if required and cut out the windscreen.
– During the cutting procedure, press the cutting thread with a plastic wedge against the windscreen in order to create a clearance between the window flange and the dash panel.

1.4.1 Installing windscreen

Note

When installing the windscreen, a second mechanic is required.

Prepare new windscreen for fitting
⇒ “1.12.2 Prepare new window for fitting ”, page 154 .

Prepare body flange for fitting
⇒ “1.13 Prepare body flange for fitting”, page 155 .

Installation instructions
⇒ “1.14 Installation instructions for all panes”, page 155 .

Minimum hardening time
⇒ “1.15 Minimum hardening time”, page 156 .

1.5 Rear window - Summary of components

1 - Spacer

- ❑ If these spacers are cut off during window removal, new spacers must be glued on during re-installation ⇒ ETKA .

2 - Rear window

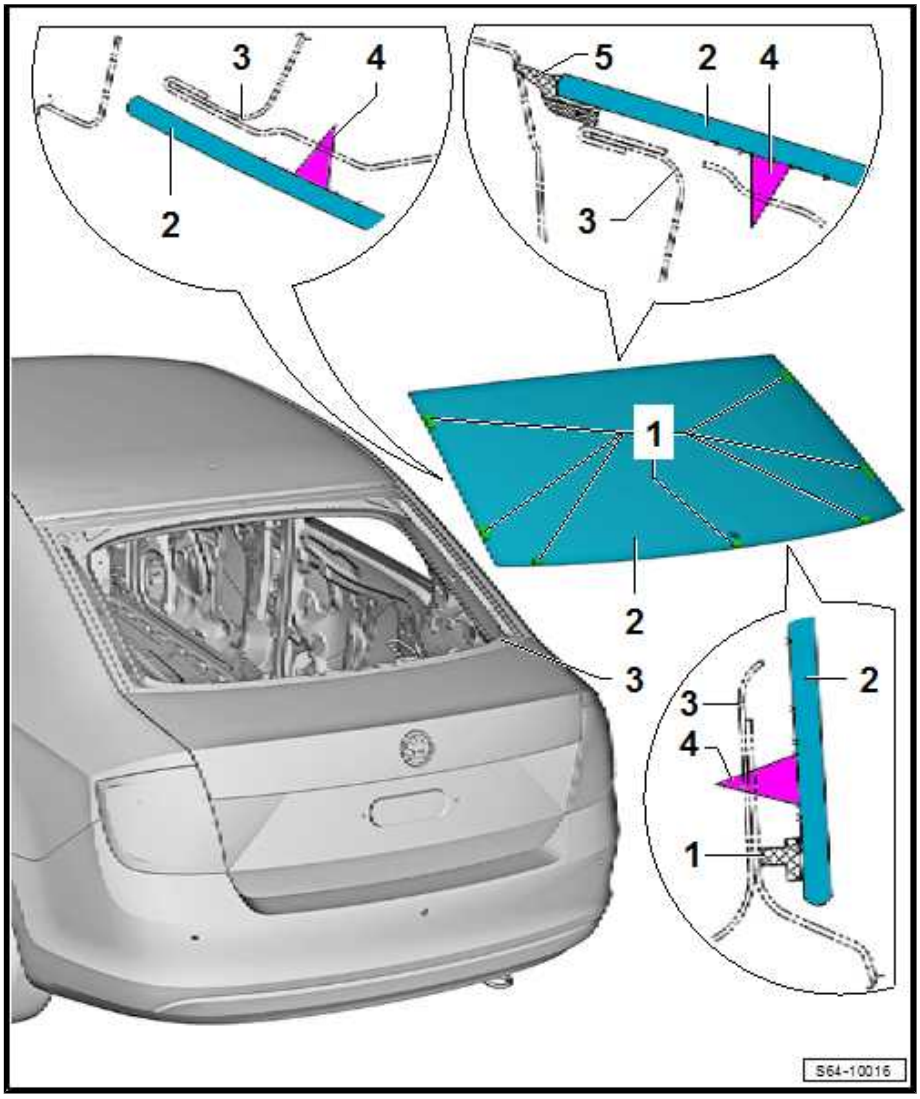
- ❑ Removing ⇒ “1.6 Removing and installing the rear window”, page 147 .
- ❑ Installing ⇒ “1.7 Installing rear window”, page 149 .

3 - Body flange

4 - PUR - glue sealing material

- ❑ Adhesive bead cross-section: width - b - = 6 - 8mm height - a - = 10 - 12 mm (including the sealing section, residual sealant on window and window flange).
- ❑ Minimum hardening time ⇒ “1.15 Minimum hardening time”, page 156 .

5 - Sealing section



1.6 Removing and installing the rear window

Removing damaged window

WARNING

It is essential to wear protective goggles and gloves when cutting hardened PUR adhesive sealing material and when handling the cutting cord.

Observe the electrical wiring harnesses routed under the window when cutting the rear window.

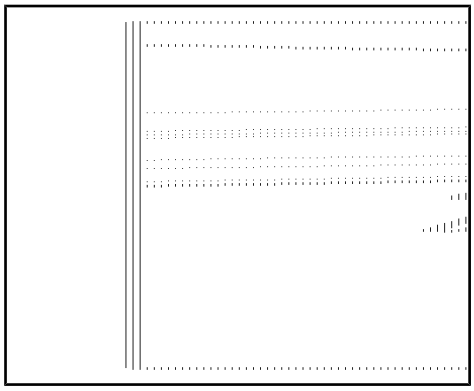
– Protect vehicle interior from glass splinters.

– Remove high-level brake light ⇒ Electrical system ⇒ Rep. gr. 94 .

– Remove rear window wiper (if present) ⇒ Electrical System ⇒ Rep. gr. 92 .

– Disconnect the plug connections of the heated rear window and press the contact tabs onto the window.

– Cover the painted surfaces along the window with textile adhesive tape.
– Remove glass pieces up to the glue sealing material.
– Cut back the adhesive sealant e.g with electrical cutting tool - V.A.G 1561/A- to approx. 1 mm thickness.
– Suction off glass residues in the vehicle as well as in the hollows of the tailgate (release cable ducts) with a vacuum cleaner.

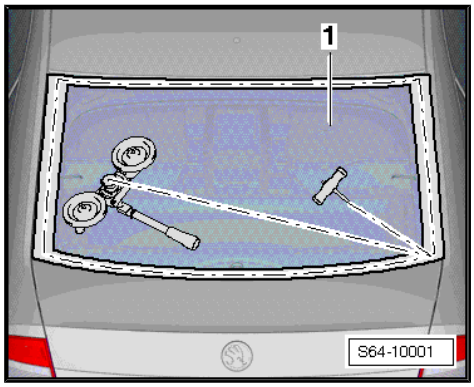


Removing undamaged window

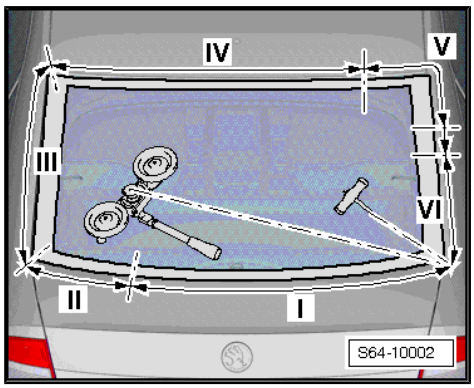
WARNING

It is essential to wear protective goggles and gloves when cutting hardened PUR adhesive sealing material and when handling the cutting cord.

– Remove high-level brake light ⇒ Electrical system ⇒ Rep. gr. 94 .
– Remove rear window wiper (if present) ⇒ Electrical System ⇒ Rep. gr. 92 .
– Disconnect the plug connections of the heated rear window and press the contact tabs onto the window.
– Cover the painted surfaces along the window with textile adhesive tape.
– Pull the cutting thread with the awl through the sealing material towards the inside.
– Secure the end of the cutting thread with the pull handle against pulling out.
– Lay the cutting thread around the rear window - 1 - and guide the second end of the thread towards the inside.
– Attach the end of the cutting thread to the spooler.
– Slide the cover foil carefully between the rear window and the moulded headliner.



– Position the spooler in the indicated position (I and VI).
– Move the spooler gradually if required and cut out the windscreen.
– During the cutting procedure, press the cutting thread with a wedge against the rear window to create a clearance at the window flange.
– Use the suction cup to remove the window from the vehicle.



Note

A second mechanic is required for removing the window.

1.7 Installing rear window

Note

When installing the rear window, a second mechanic is required.

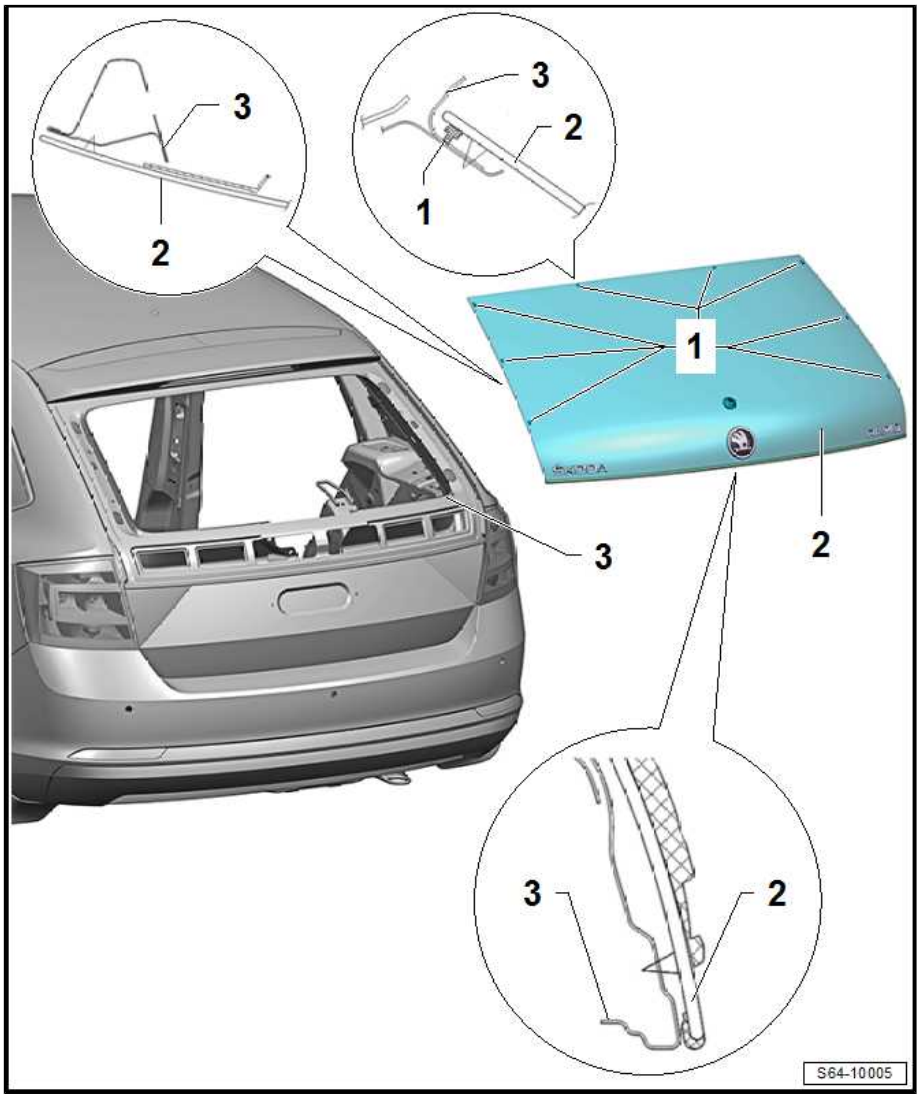
- Prepare new window for fitting
  ⇒ “1.12 Preparing the new window for fitting”, page 154 .
- Prepare new windscreen for fitting
  ⇒ “1.12.2 Prepare new window for fitting ”, page 154 .
- Prepare body flange for fitting
  ⇒ “1.13 Prepare body flange for fitting”, page 155 .
- Place the window in the fitting location on the body flange with the help of two suction cups.
- Installation instructions
  ⇒ “1.14 Installation instructions for all panes”, page 155 .
- Minimum hardening time
  ⇒ “1.15 Minimum hardening time”, page 156 .

1.8 Extended rear window (Spacebook)- Summary of components

1 - Spacer

2 - Rear window

3 - Body sheet profiles



1.9 Removing and installing extended rear window (Spacebook)

WARNING

It is essential to wear protective goggles and gloves when cutting hardened PUR adhesive sealing material and when handling the cutting cord.

Removing undamaged side window

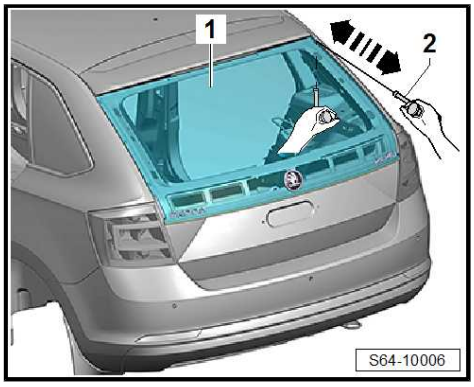
- Protect vehicle interior from glass splinters.
- Removing top trim panel for tailgate ⇒ “4 Tailgate trim panel”, page 274 .
- Remove glass pieces up to the glue sealing material.
- Cover the painted surfaces along the window with textile adhesive tape.
- Connections for heatable rear window and rear window aerials (depending on the equipment installed in the vehicle) ⇒ Electrical system; Rep. gr. 91 .
- Remove rear window wiper ⇒ Electrical system; Rep. gr. 92 .
- To cut the window, use an electrical cutting device, e.g. -V.A.G 1561/A- or a pneumatic cutting device, e.g. -VAS 5177- , cutting thread - 357 853 999 B- or cutting cord - 357 845 955- or separating device e.g. -V.A.G 1474 A- .
- Cut back adhesive cement to a thickness of approx. 1 mm.

Removing undamaged window

WARNING

It is essential to wear protective goggles and gloves when cutting hardened PUR adhesive sealing material and when handling the cutting cord.

- Removing top trim panel for tailgate ⇒ “4 Tailgate trim panel”, page 274 .
- Connections for heatable rear window and rear window aerials (depending on the equipment installed in the vehicle) ⇒ Electrical system; Rep. gr. 91 .
- Remove rear window wiper (incl. wiper motor) ⇒ Electrical system; Rep. gr. 92 .
- Cover the painted surfaces along the window with textile adhesive tape.



– To cut the window - 1 -, use an electrical cutting device, e.g. -V.A.G 1561/A- or a pneumatic cutting device, e.g. -VAS 5177- , cutting thread - 357 853 999 B- or cutting cord - 357 845 955- - 2 -.
– Cut back adhesive cement to a thickness of approx. 1 mm.
– If the spacers are cut off during window removal ⇒ Item 1 (page 149) , new spacers must be glued on during re-installation ⇒ ETKA .

Installing side window

Note

When installing the rear window, a second mechanic is required.

Prepare flange for fitting
⇒ “1.13 Prepare body flange for fitting”, page 155 .

Preparing the window for gluing
⇒ “1.12.2 Prepare new window for fitting ”, page 154 .

Adhering rubber buffer onto rear window.

Gluing on
⇒ “1.14 Installation instructions for all panes”, page 155 .

Waiting time ⇒ “1.15 Minimum hardening time”, page 156 .

Further work occurs in reverse order to removal.

1.10 Removing and installing side window (Spacebook)

Summary of components

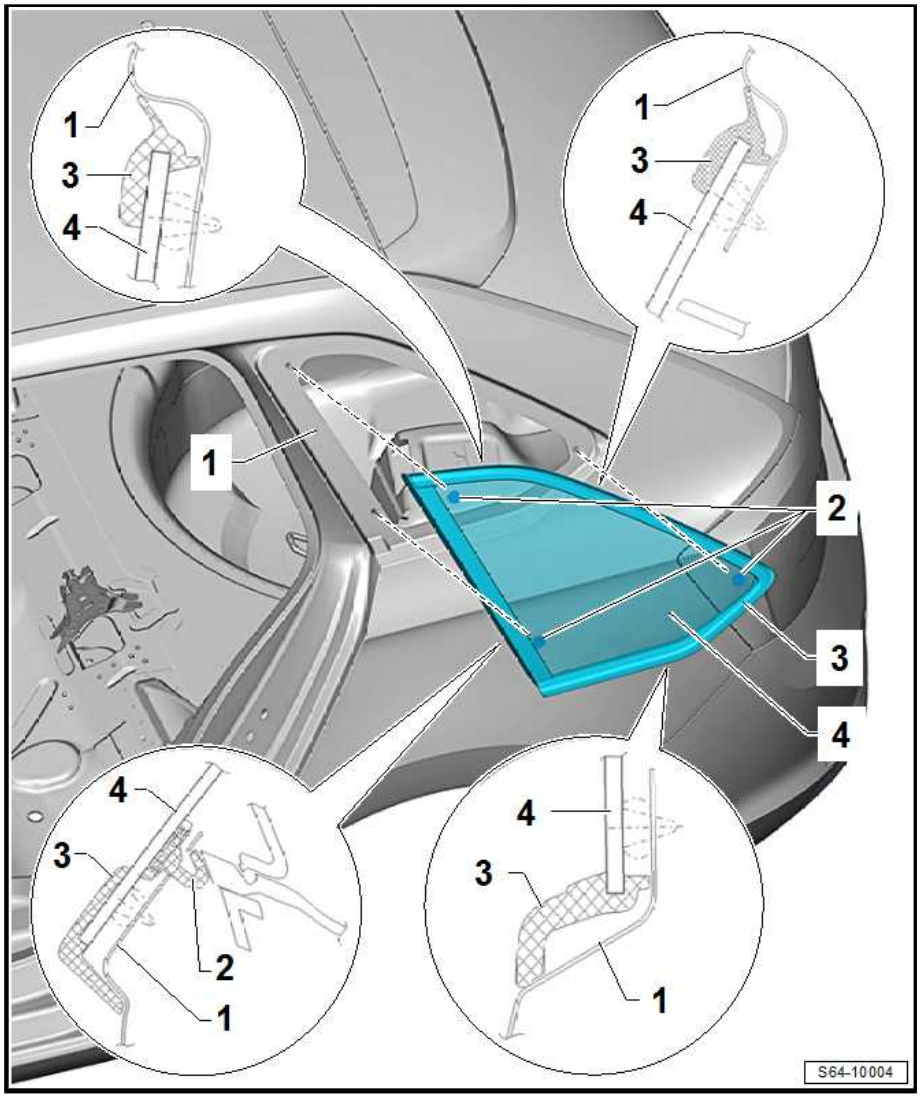
1 - Body sheet profiles

2 - Fixing bolts

3 - Seal

❑ Is part of the window.

4 - Side window



1.11 Removing and installing side window (Spacebook)

WARNING

It is essential to wear protective goggles and gloves when cutting hardened PUR adhesive sealing material and when handling the cutting cord.

Removing undamaged side window

– Protect vehicle interior from glass splinters.

– Remove top trim panel of pillar C and D
⇒ “3.7 Removing and installing C and D pillar trim panels (Spaceback)”, page 270 .

– Remove glass pieces up to the glue sealing material.

– Cover the painted surfaces along the window with textile adhesive tape.

– Remove antenna plug (depending upon equipment).

– For cutting the disc, use e.g. an electric cutting device -V.A.G 1561/A- or cutting wire - 357 853 999 B- or cutting cord - 357 845 955- .

Note

When cutting the window, pay attention at the point of the distance clips which are vulcanized to the window.

– Cut back adhesive cement to a thickness of approx. 1 mm.

Removing undamaged window

WARNING

It is essential to wear protective goggles and gloves when cutting hardened PUR adhesive sealing material and when handling the cutting cord.

– Remove top trim panel of pillar C and D
⇒ “3.7 Removing and installing C and D pillar trim panels (Spaceback)”, page 270 .
– Remove antenna plug (depending upon equipment).
– Cover the painted surfaces along the window with textile adhesive tape.
– To cut the window, use an electrical cutting device, e.g. -V.A.G 1561/A- or a pneumatic cutting device, e.g. -VAS 5177- or cutting thread - 357 853 999 B- or cutting cord - 357 845 955- .

Note

When cutting the window, pay attention at the point of the distance clips which are vulcanized to the window.

– Cut back adhesive cement to a thickness of approx. 1 mm.

Installing side window

Prepare flange for fitting
⇒ “1.13 Prepare body flange for fitting”, page 155 .

Preparing the window for gluing
⇒ “1.12.2 Prepare new window for fitting ”, page 154 .

Gluing on
⇒ “1.14 Installation instructions for all panes”, page 155 .

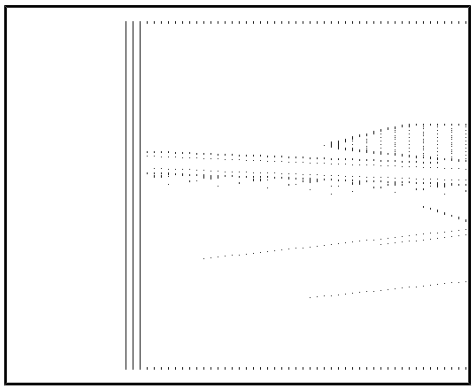
Waiting time ⇒ “1.15 Minimum hardening time”, page 156 .

Mount antenna plug (depending upon equipment).

1.12 Preparing the new window for fitting

1.12.1 Cut back the adhesive bead

Carry out the following tasks



Note

- *Cut back the remaining glue sealing material to 1-2 mm just prior to adhering again. While doing so, do not damage the glass/primer and ceramic layer.*
- *The remainder of the sealing compound serves as a base for the newly applied adhesive sealant.*

WARNING

Do not prime the adhesive surface and do not treat with cleaning solution. Keep the adhesive surfaces free of dirt or grease.

Exception: If the bonding is not carried out immediately after cutting back, the sealing compound must be activated with the activator.

1.12.2 Prepare new window for fitting

Carry out the following tasks

All the windows are not pre-layered as a spare part.

Note

- *The area where the adhesive bead is applied is neither pre-layered nor primed.*
- *The sealing lip is a component part of a new windscreen.*

– Clean edge of the window (where glass/paint primer will be applied) up to a width of approx. 20 mm with cleaning solution.

– Next, wipe off the edge of the window (where glass/paint primer will be applied) using a dry, lint-free cloth not contaminated with any substances.

WARNING

The ceramic layer on the window is no glass/paint primer! It is absolutely essential to prime it before applying the sealing material! Only use glass/paint primer D 009 200 02!

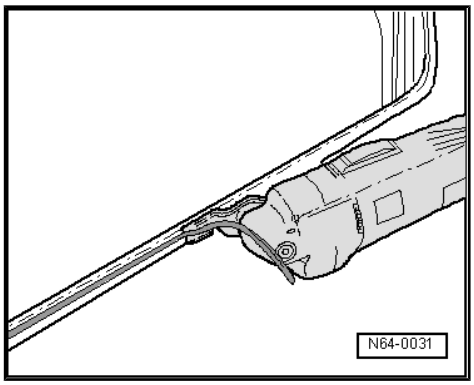
– Now apply the glass/paint primer with the applicator uniformly in one go.

- Minimum hardening time approx. 10 minutes.

1.13 Prepare body flange for fitting

Carry out the following tasks

– Cut back the sealing compound on the body flange using the U-shape cutting knife - V.A.G 1561/3- . However do not remove completely.



Note

The remainder of the sealant serves as a base for the newly applied glue sealing material. Keep the adhesive surfaces free of dirt or grease.

WARNING

The activator must not come into contact with paintwork, otherwise there will be paint damage.

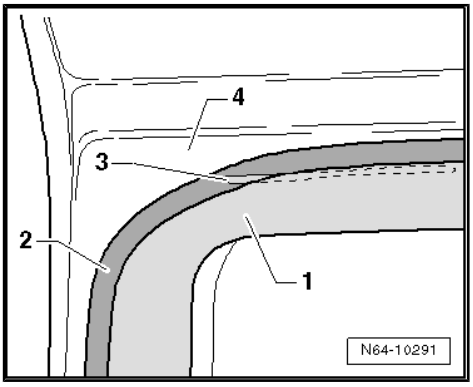
Exception: If the bonding is not carried out immediately after cutting back, the sealing compound must be activated with the activator - D 181 801 A1- .

♦ If the body flange was reworked or only partly replaced, clean this area again after painting and treat it with glass/paint primer.

Note

Under some circumstances, it is possible that a laser welding seam is not present in the area of the adhesive bead. Then the exposed welding seam must be sealed before gluing the window with the window pane adhesive.

– If the laser welding seam - 3 - at the metal flange - 4 - is not covered with an adhesive bead - 1 -, coat the laser welding seam - 3 - with glass/paint primer - D 009 200 02- - 3 -. After airing the glass / paint primer, fill the welded seam with window adhesive - 1 -.



1.14 Installation instructions for all panes

– Apply the adhesive cement all around at a right angle to the window.

WARNING

The window must be inserted within 10 minutes as otherwise the adhesion of the window adhesive may be poor.

Do not apply the adhesive bead too thick and do not press the windows too hard on the body flange. Oozed adhesive can be seen in the area of the joints because the windows do no longer have any sealing lips.

- Insert the window into the body flange, for example using the suction cup - V.A.G 1344- , take the mean and press in up to the spacer web.
- Re-stick any existing stickers (for example for airbag).

1.15 Minimum hardening time

WARNING

Comply with special requirements when replacing glued windows. Among these are for example, that a newly glued windscreen must fulfil the operational safety in the event of an accident after a prescribed minimum hardening time.

For the 2K adhesive the minimum cure time for all slices is 3 hours (or as recommended by the manufacturer on package leaflet).

With the minimum hardening time is meant the time from the moment the window is glued until the vehicle is used. During this time, the vehicle must stand on a flat surface at room temperature (at least 15 °C).

WARNING

The vehicle is only safe for driving after the minimum hardening time has expired.

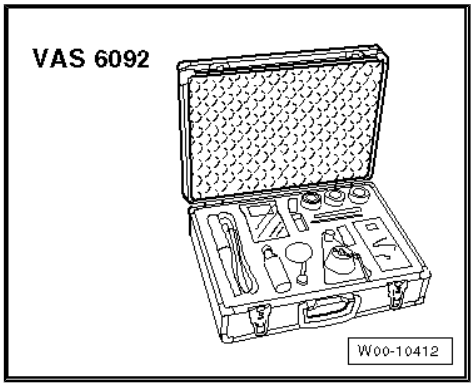
1.16 Window repairs

Note

- *In case of damage to the windscreen, it must be clarified whether the glass can be repaired before replacing the windscreen.*
- *Damaged windscreens can be repaired using the window repair set - VAS 6092- .*
- *The damage must not exceed a certain size and location.*
- *An instruction manual is enclosed with each pane repair kit.*

Special tools and workshop equipment required

♦ Pane repair kit - VAS 6092- or -VAS 6093- .



1.17 Cleaning necessary due to soiling through glue sealing material

– We recommend using glue remover for cleaning. Observe safety regulations while working.

WARNING

When cleaning the vehicle interior, the window which was just inserted must not be pressed towards the outside.

– Clean the paint surfaces with a dry cloth. Remove the glue residue with glue remover.

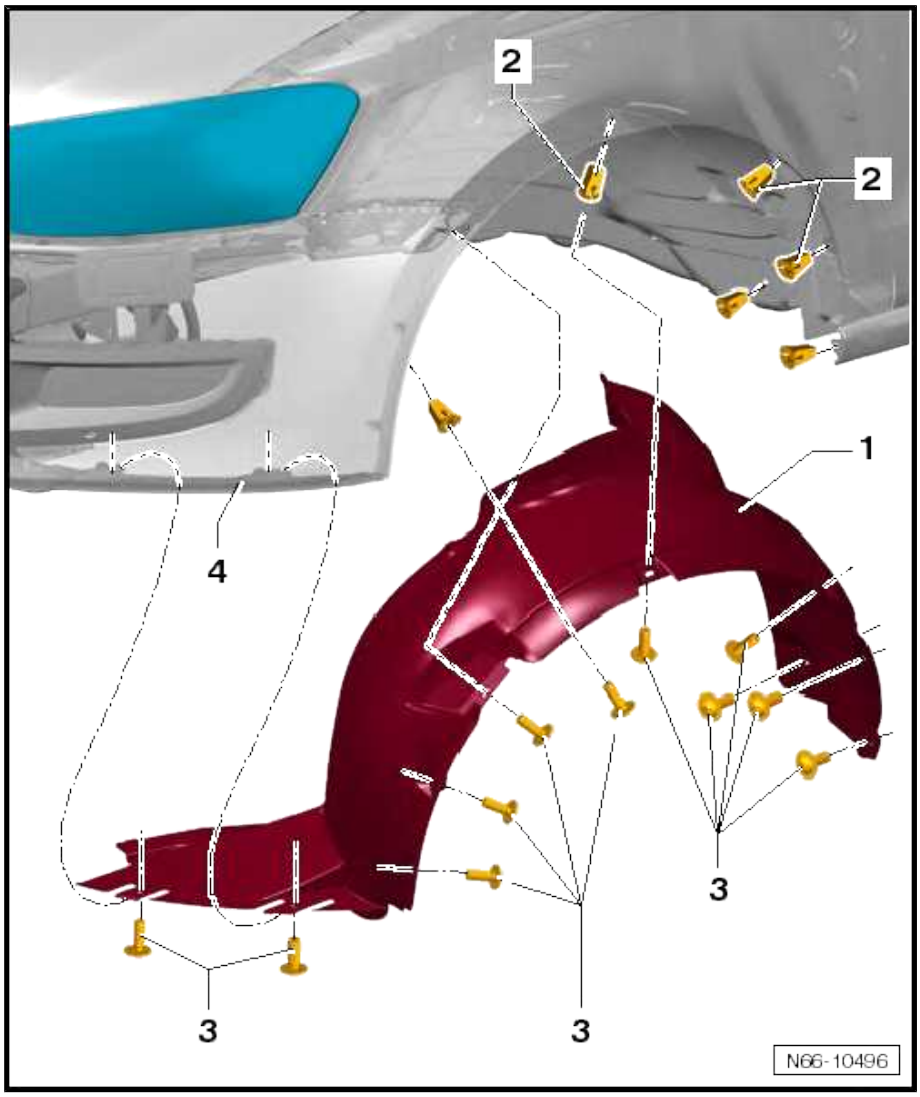
– Clean plastic fillings: leave glue sealing material to harden (approx. 1 hour) and then pull off.

66 – Exterior equipment

1 Wheelhouse liner

1.1 Front wheelhouse liner

1.1.1 Removing

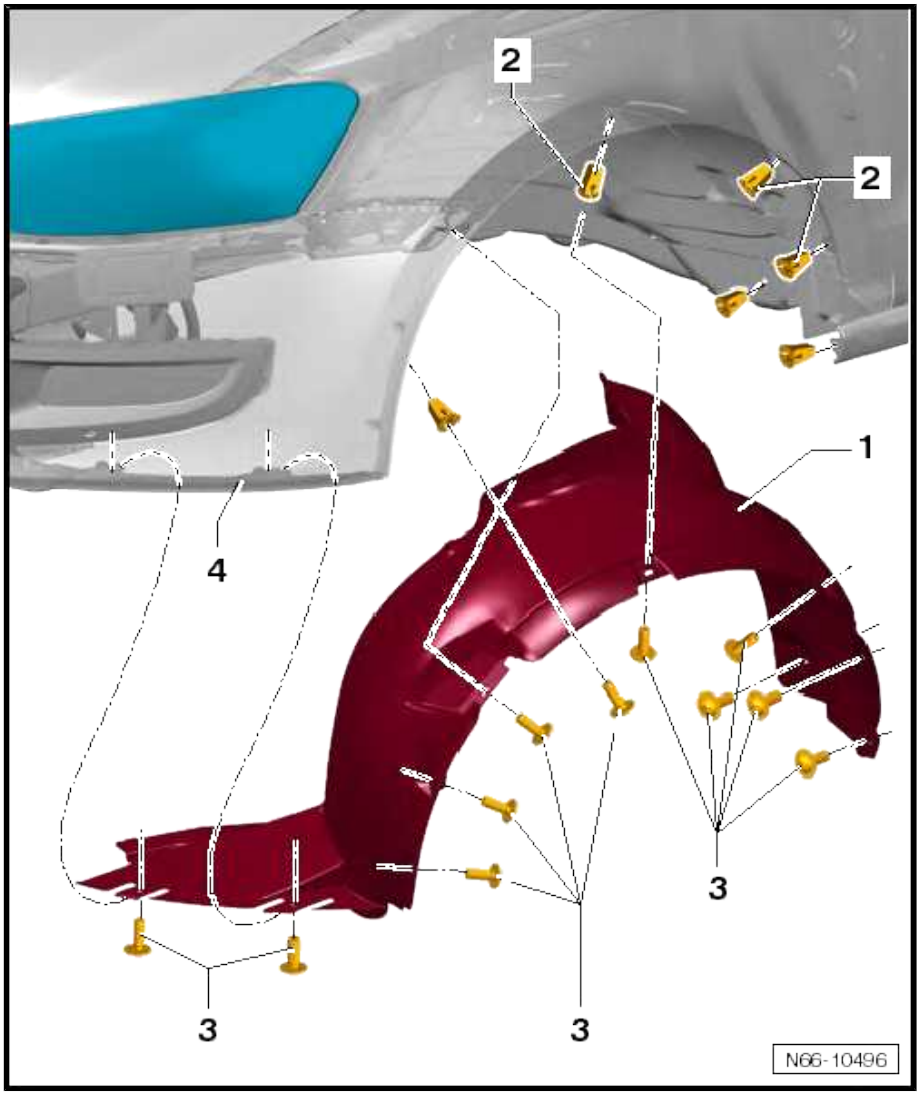


– Remove wheel ⇒ Chassis; Rep. gr. 44 ; tightening torques for the wheel bolts .
– Unscrew screws -3-.
– Pull out wheelhouse liner -1-.

1.1.2 Installing

Note

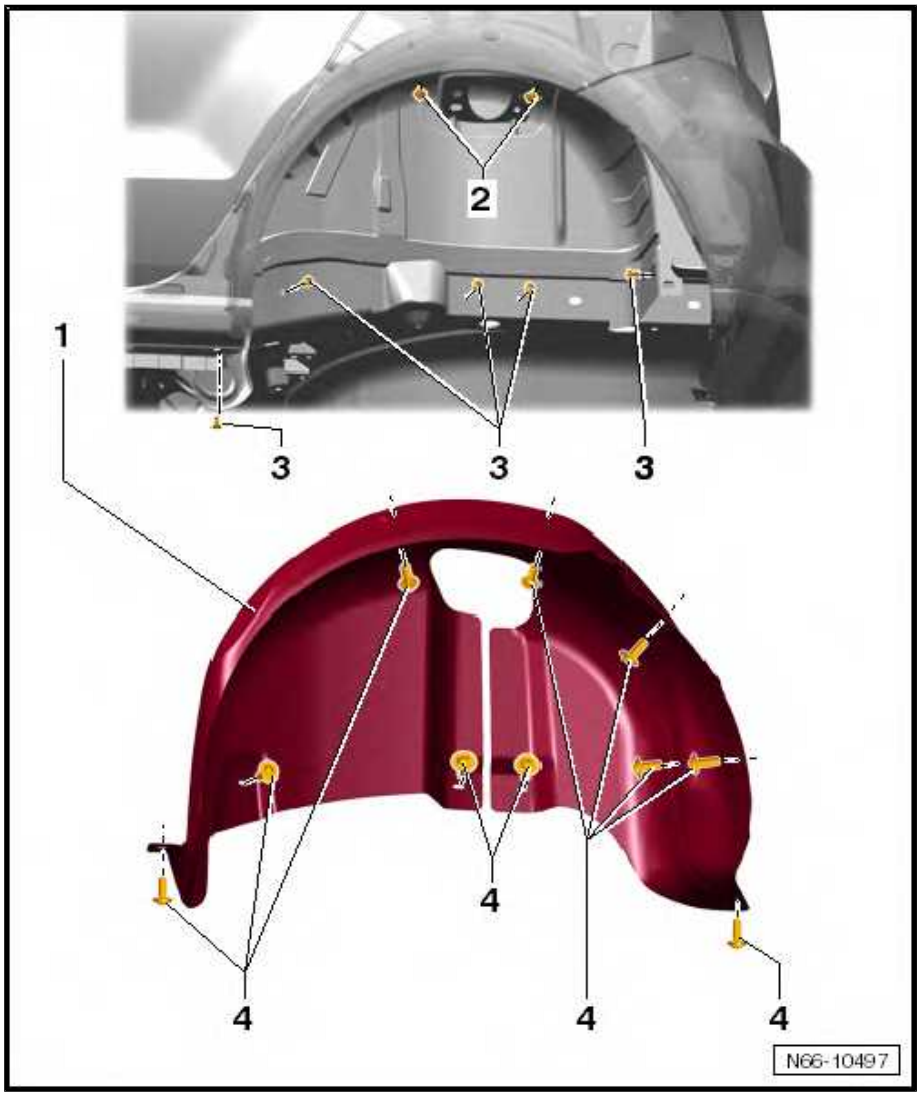
Check the expanding nuts - 2 - for damage, replace them if necessary.



– Insert wheelhouse liner - 1 - in the wing.
– Install screws -2-. Tightening torque - 2 Nm.

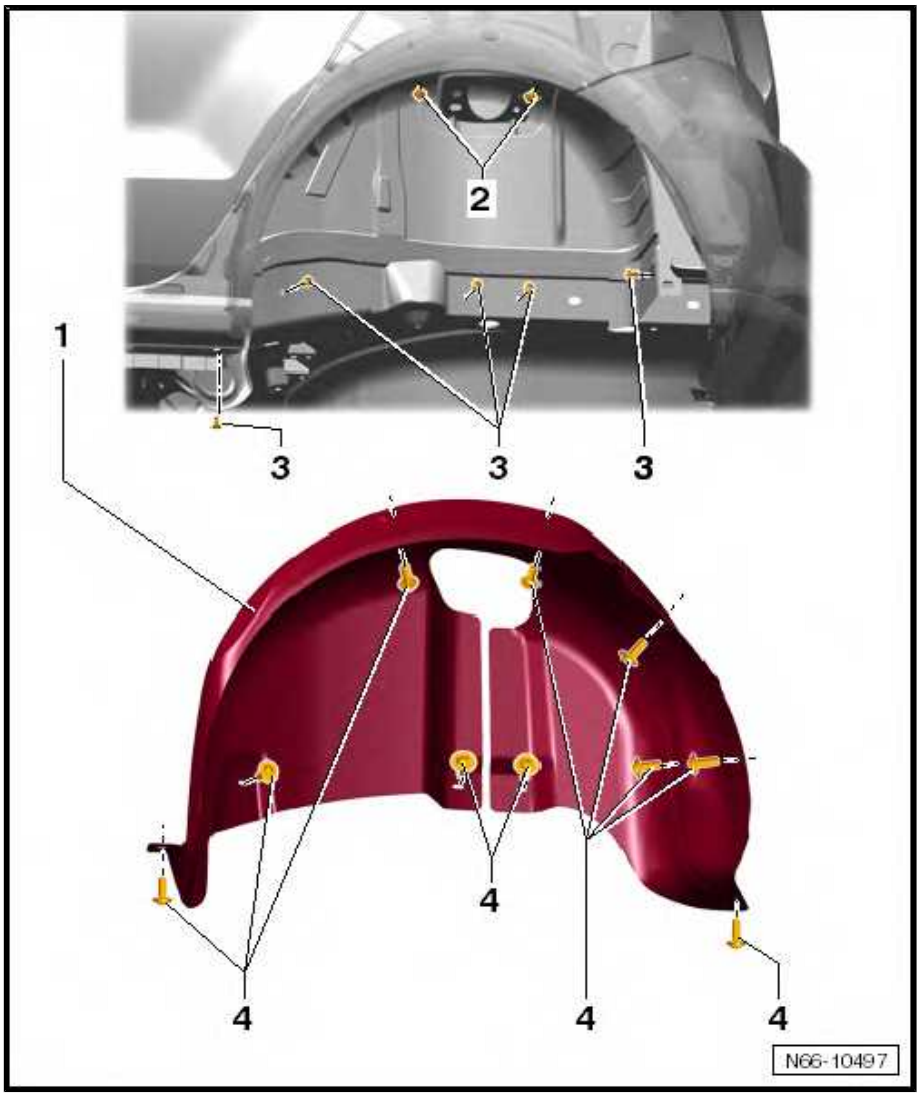
1.2 Rear wheelhouse liner

1.2.1 Removing



– Remove wheel ⇒ Chassis; Rep. gr. 44 ; tightening torques for the wheel bolts .
– Unscrew screws -4-.
– Pull out rear wheelhouse liner - 1 -.

1.2.2 Installing



DANGER!

Check the expanding nuts - 2 and 3 - for damage, replace them if necessary.

The expanding nuts seal the interior from exhaust gases. In case of damage, they must absolutely be replaced.

– Insert the rear wheelhouse liner - 1 - into the wheelhouse without any kinks.
– Install screws -2-. Tightening torque - 2 Nm.
– Install wheel ⇒ Chassis; Rep. gr. 44 ; tightening torques for wheel bolts .

2 Exterior mirrors

2.1 Summary of components

1 - Screw

- ❑ 1 Nm.

2 - Mirror tilting mechanism

- ❑ Removing and installing
- – Remove mirror glass ⇒ “2.1.1 Removing and installing mirror glass”, page 163 .

3 - Mirror housing

- ❑ Removing and installing ⇒ “2.1.2 Removing and installing the mirror housing”, page 164 .

4 - Screw

5 - Bearing part of mirror

6 - Mirror holder with link

7 - Mirror glass

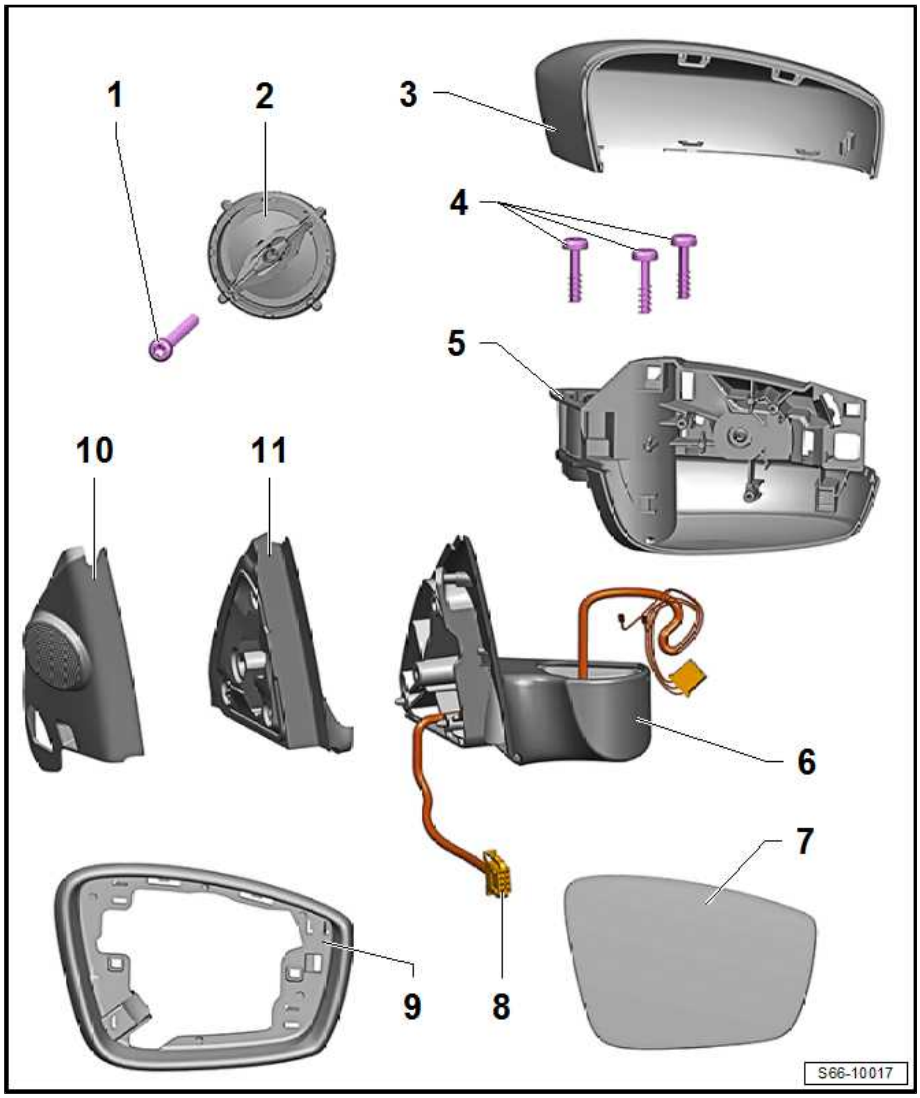
- ❑ Removing and installing ⇒ “2.1.1 Removing and installing mirror glass”, page 163 .

8 - Electrical cable with plug connection (depending on version)

9 - Mirror frame

10 - Mirror inner lining

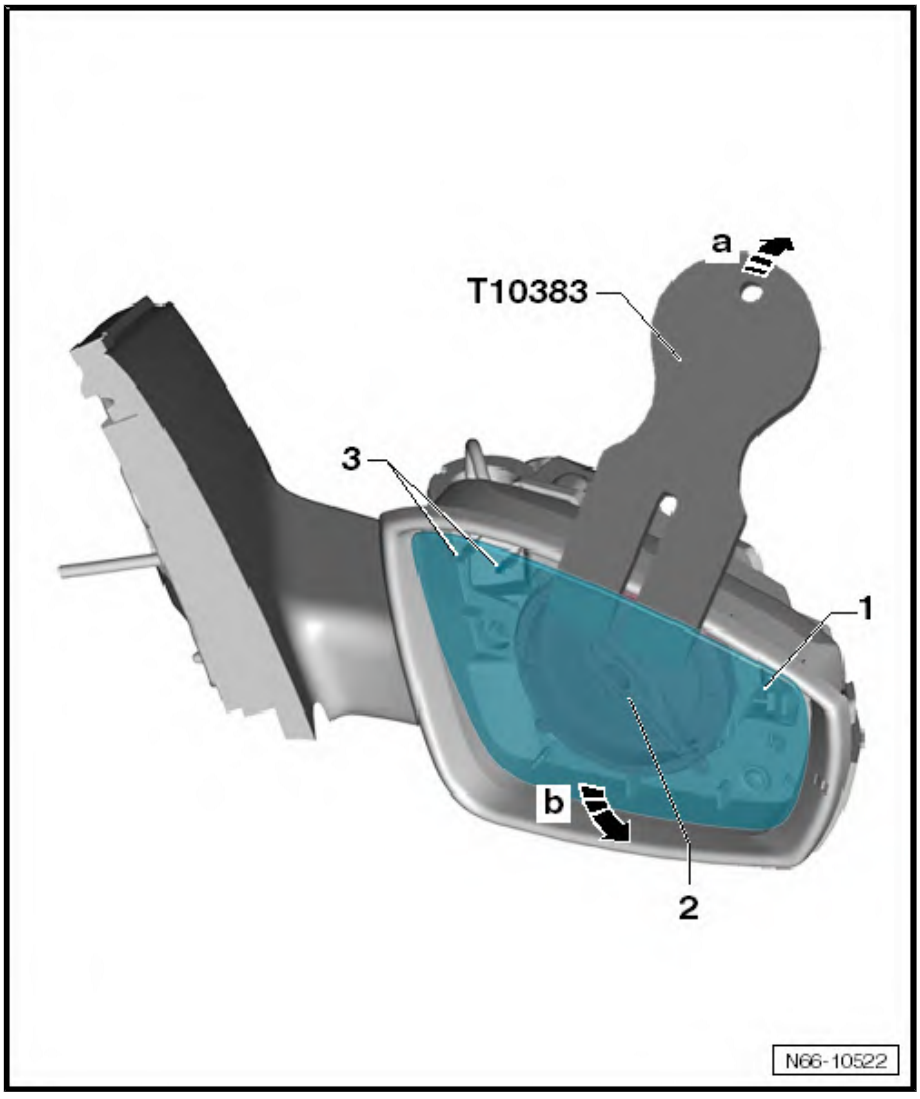
11 - Damping



2.1.1 Removing and installing mirror glass

WARNING

Wear protective gloves and protective goggles when working!



Removing

– Protect the edges of the housing for damage, e.g. cover with textile adhesive tape.

– Swivel the mirror glass - 1 - in the maximum position.

– Press off the mirror glass -1- from the holder -2- and the housing -arrow a- for example using a wide plastic wedge.

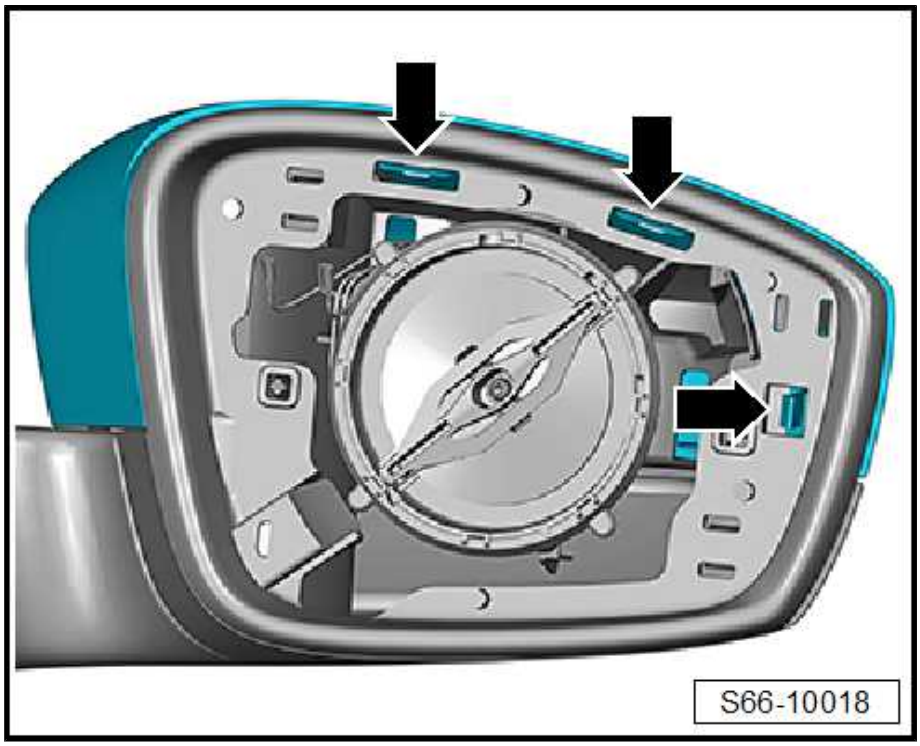
Installing

– Press the mirror glass in the centre onto the holder in the housing.

The mirror glass clicks audibly into place.

• Subsequently perform a functional test.

2.1.2 Removing and installing the mirror housing



Removing

– Remove mirror glass
⇒ “2.1.1 Removing and installing mirror glass”, page 163 .

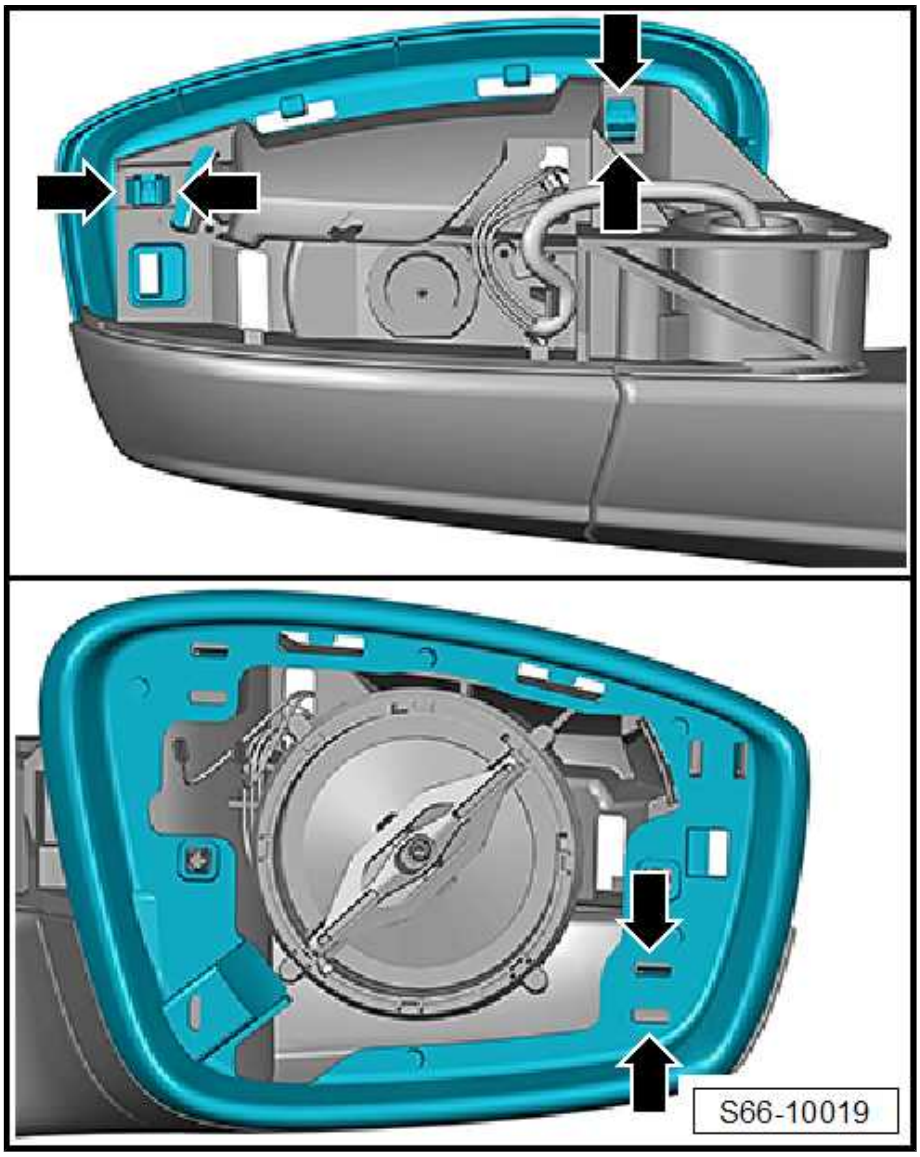
– Release locking tabs -arrows-.

– Slide out mirror housing from the bearing part of the mirror towards the rear.

Installing

– Press mirror housing into the tabs until it audibly clicks into place.

2.1.3 Removing and installing frame



Removing

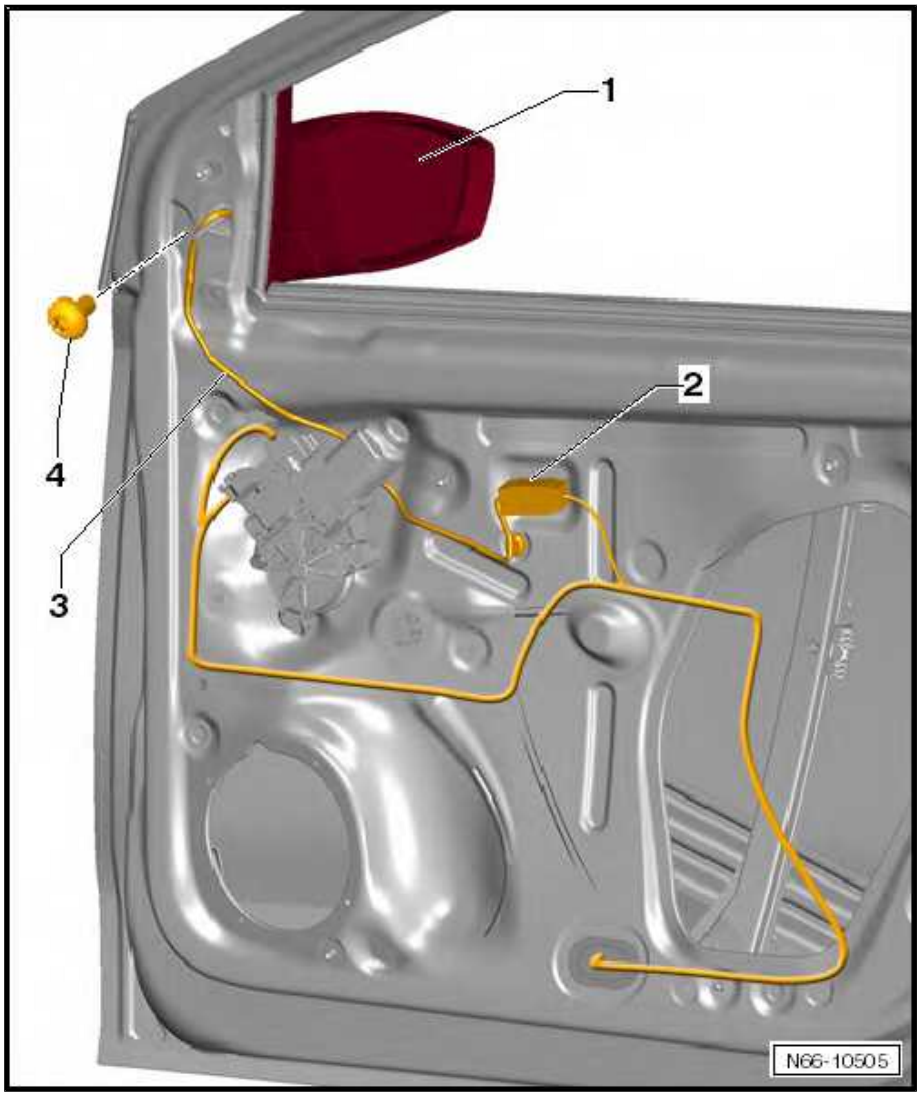
– Remove mirror housing
⇒ “2.1.2 Removing and installing the mirror housing”, page 164 .
– Release the tabs on the reverse side.
– Release the tabs on the front side.
– Remove frame from bearing part of mirror.

Installing

The installation occurs in reverse order.

2.1.4 Removing and installing exterior mirror (electric operating lever)

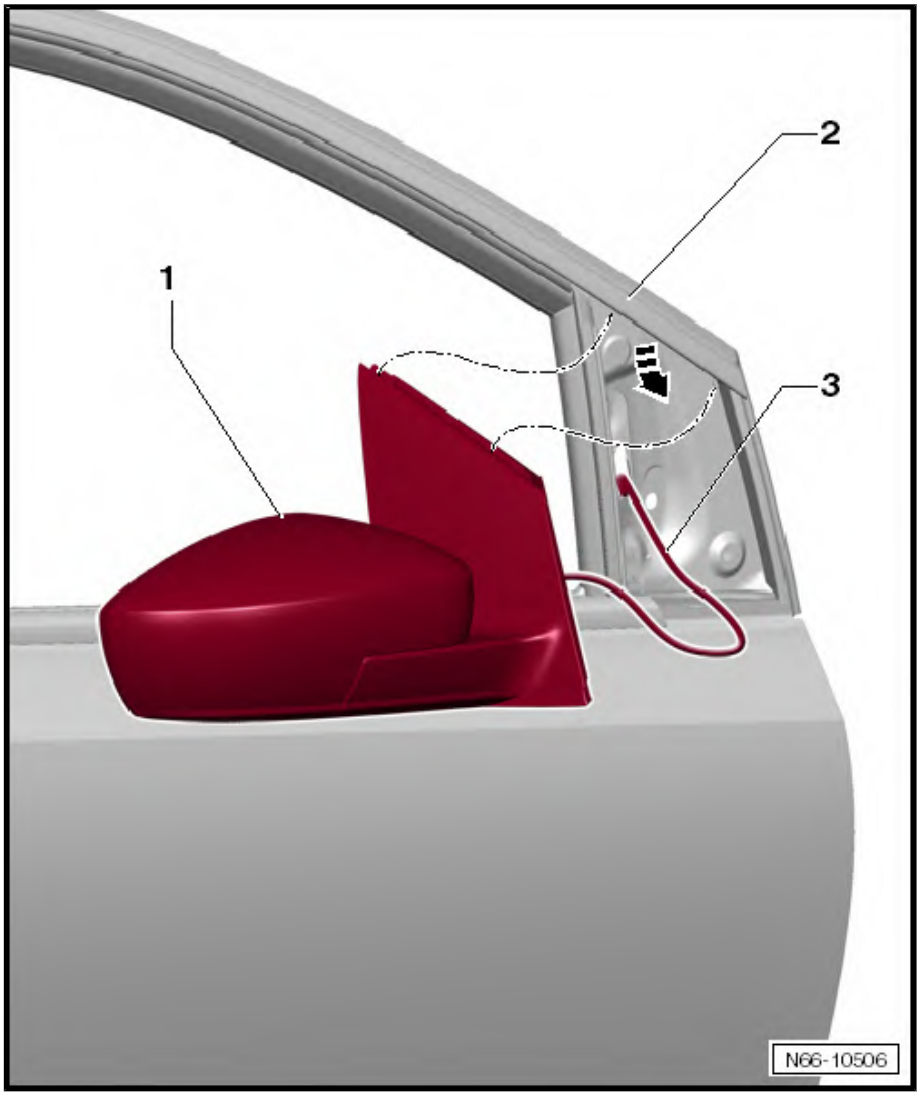
2.1.5 Removing



– Remove front door trim panel
⇒ “2 Door and side trim panels”, page 257 .

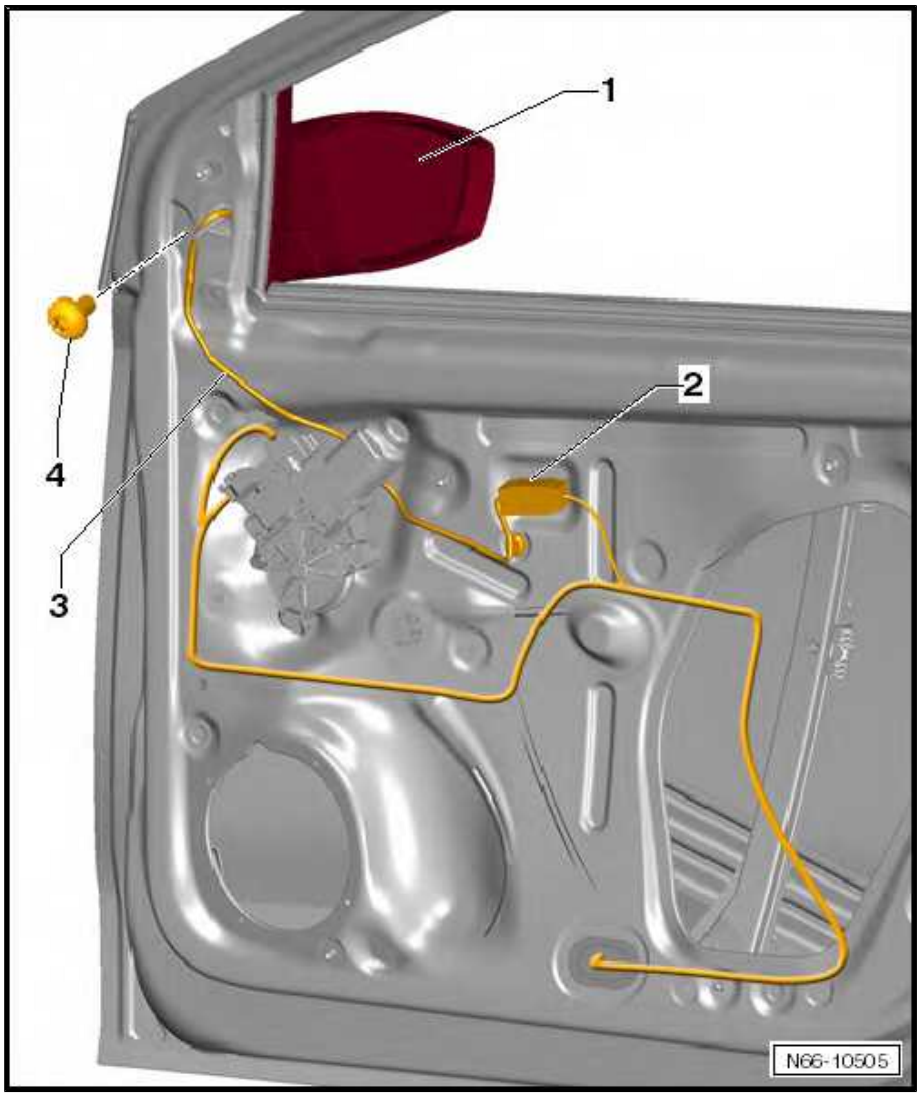
– Disconnect the plug connection - 2 - of the electrical line - 3 - for the exterior mirror - 1 -.

– Unscrew screw -4-.



– Swivel out the exterior rear-view mirror - 1 - in the lower area from the door and pull out of the window run - 2 - -arrow-.
– Guide the cable - 3 - through the opening in the door.

2.1.6 Installing



Volkswagen Technical Site: http://vwts.ru http://vwts.info

– Check correct seating of the insulation.
– Guide the line - 3 - through the opening (depending on the vehicle equipment).
– Insert the exterior mirror - 1 - into the provided opening in the door.
– Install screws -4-. Tightening torque - 12 Nm.
– Mount plug -2-.

• A functional check must be performed before installing the door trim panel.

3 Strips and trims

3.1 Summary of components - trim strips and covers

Monte Carlo front spoiler

1 - Bumpers

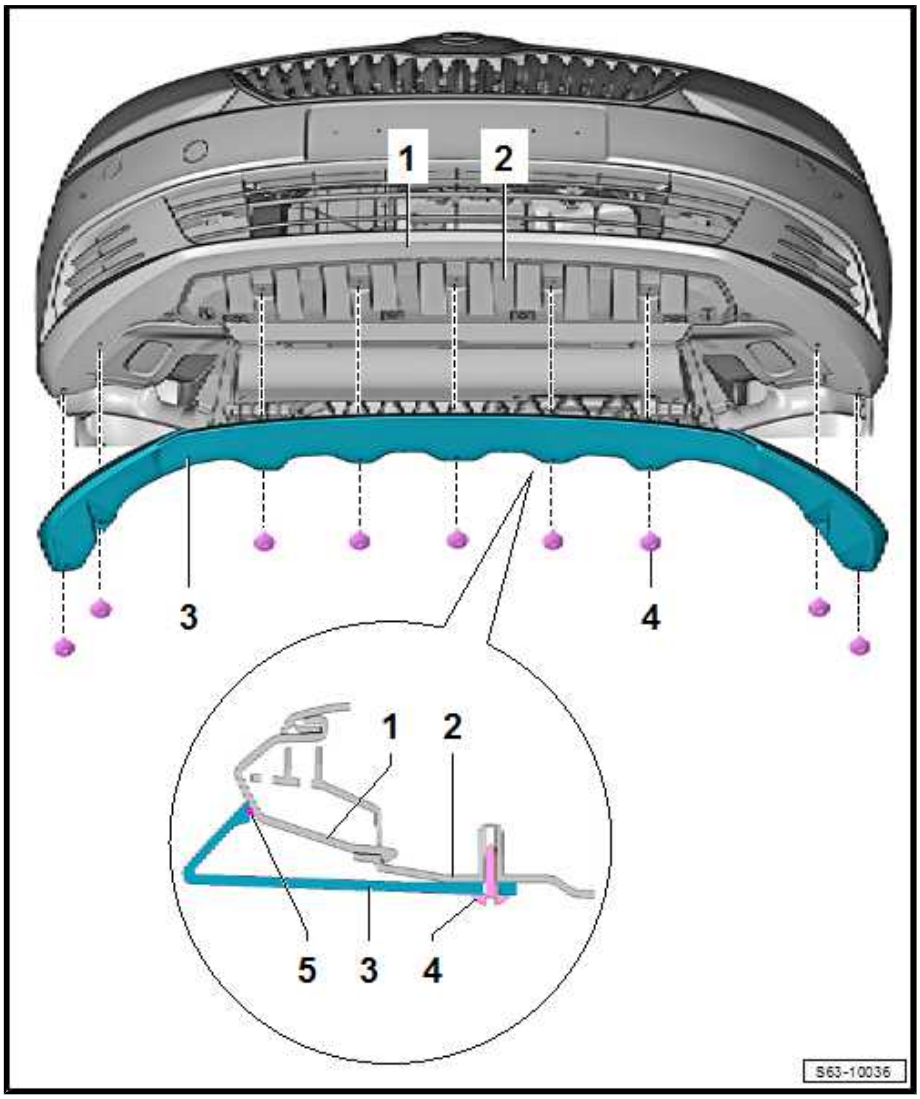
2 - Engine trim panel

3 - Monte Carlo front spoiler

4 - Screw

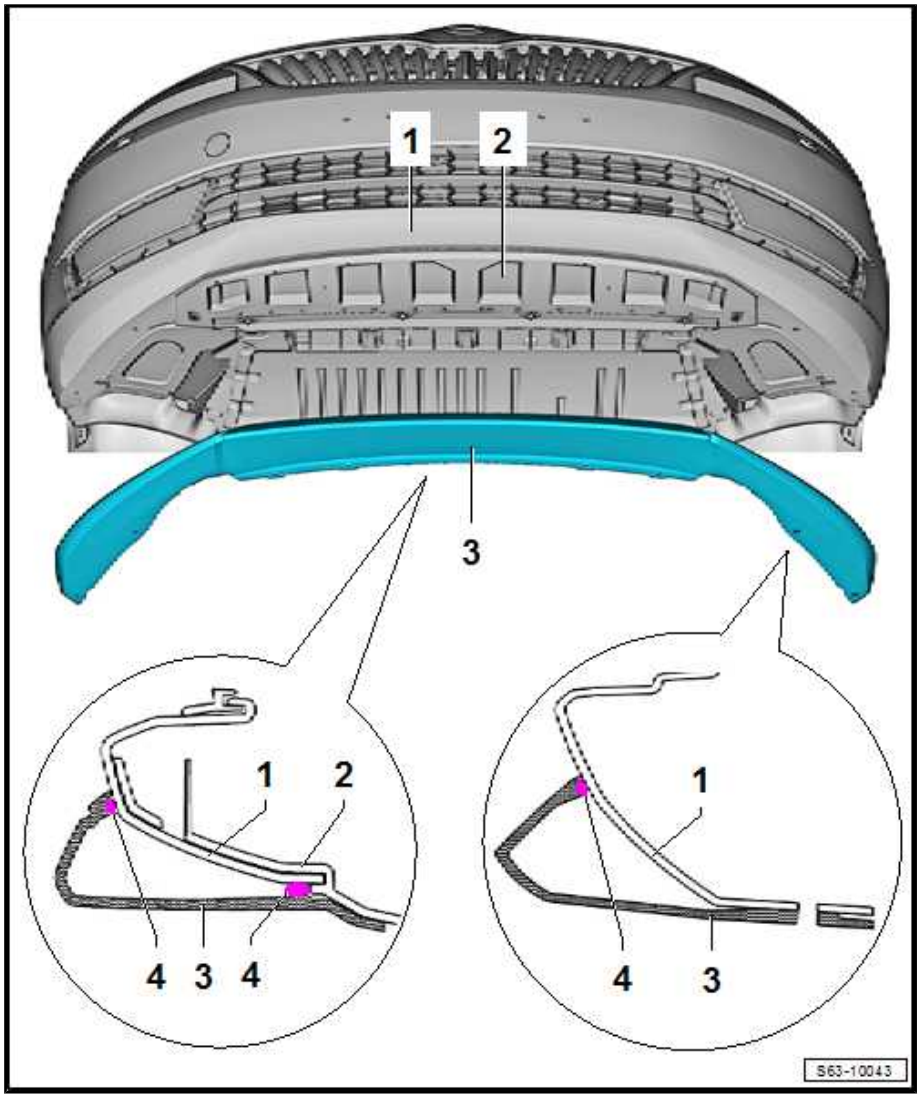
- ❑ Tightening torque - 1.5 Nm.

5 - Glue sealing material



Monte Carlo - Spaceback front spoiler

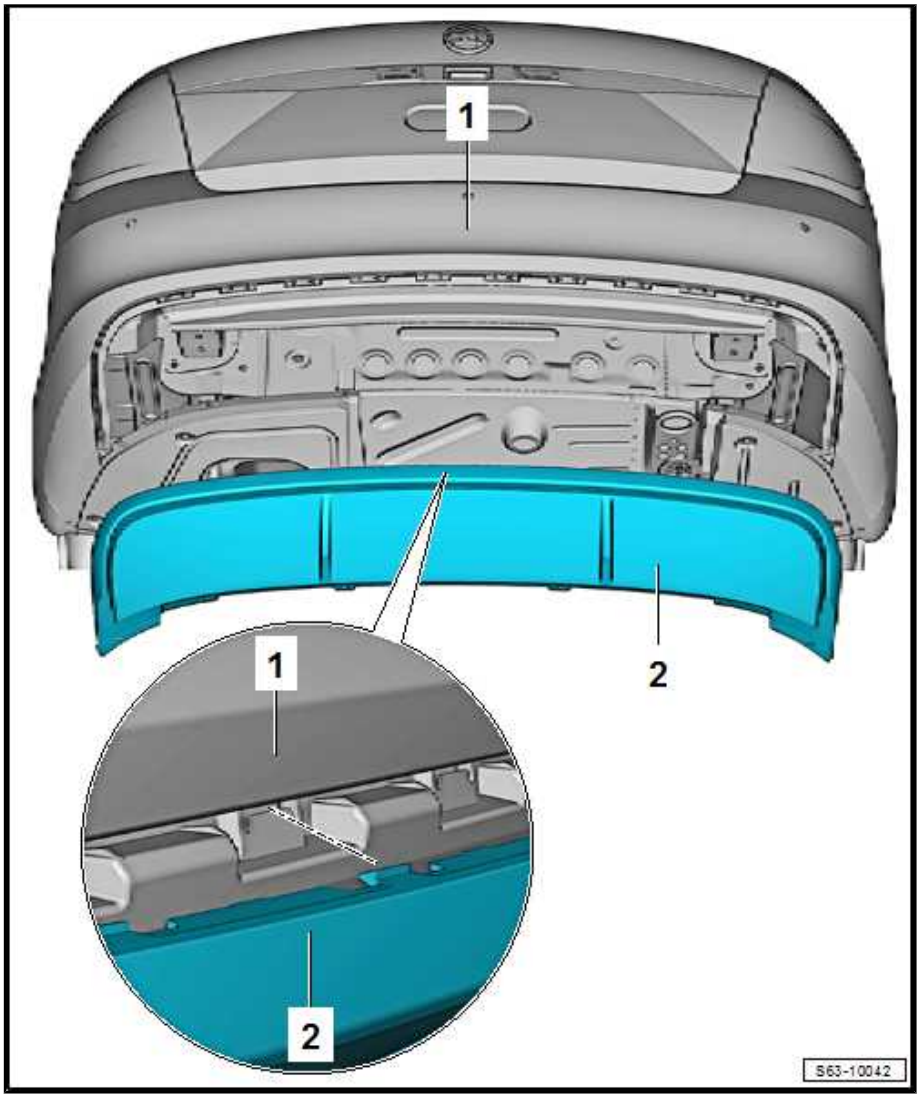
1 - Bumpers
2 - Engine trim panel
3 - Monte Carlo front spoiler
4 - Glue sealing material



Monte Carlo rear spoiler

1 - Rear bumper

2 - Monte Carlo rear spoiler

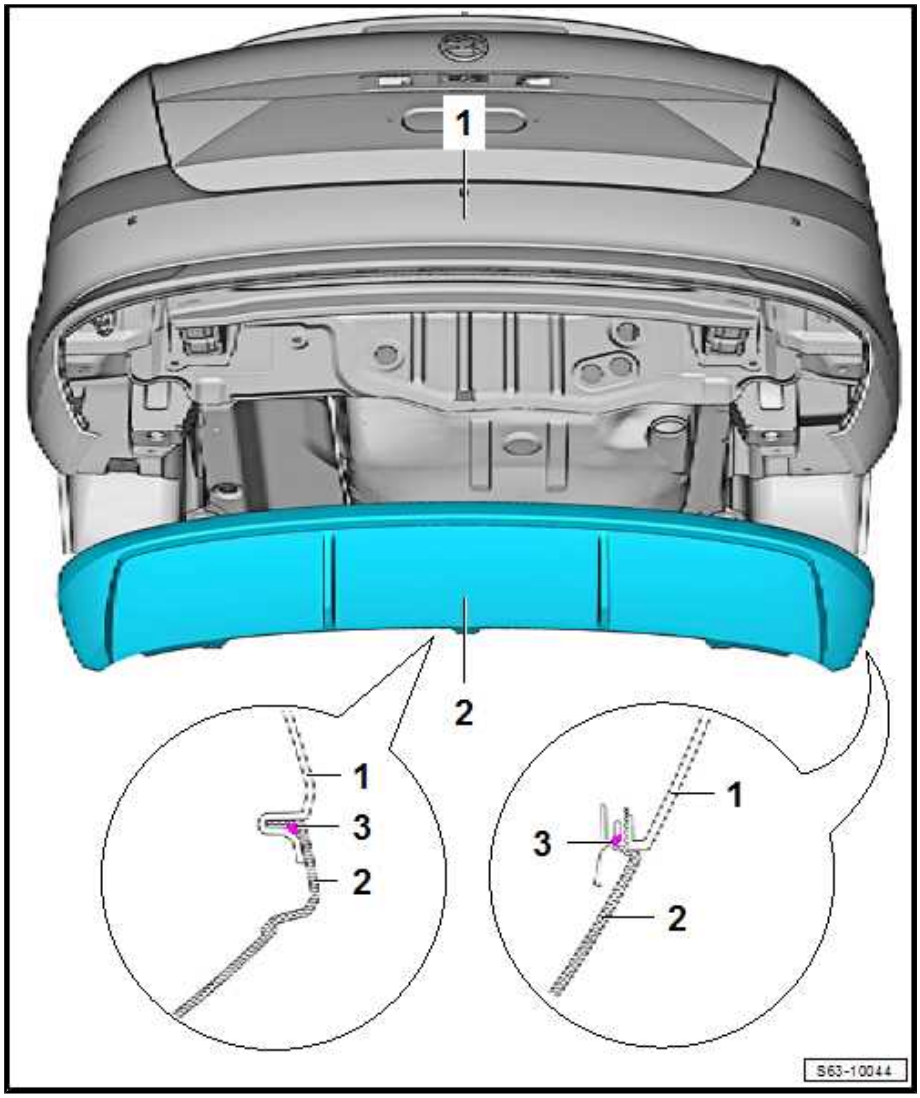


Monte Carlo - Spaceback rear spoiler

1 - Rear bumper

2 - Monte Carlo rear spoiler

3 - Glue sealing material



3.2 Removing and installing the cover

Note

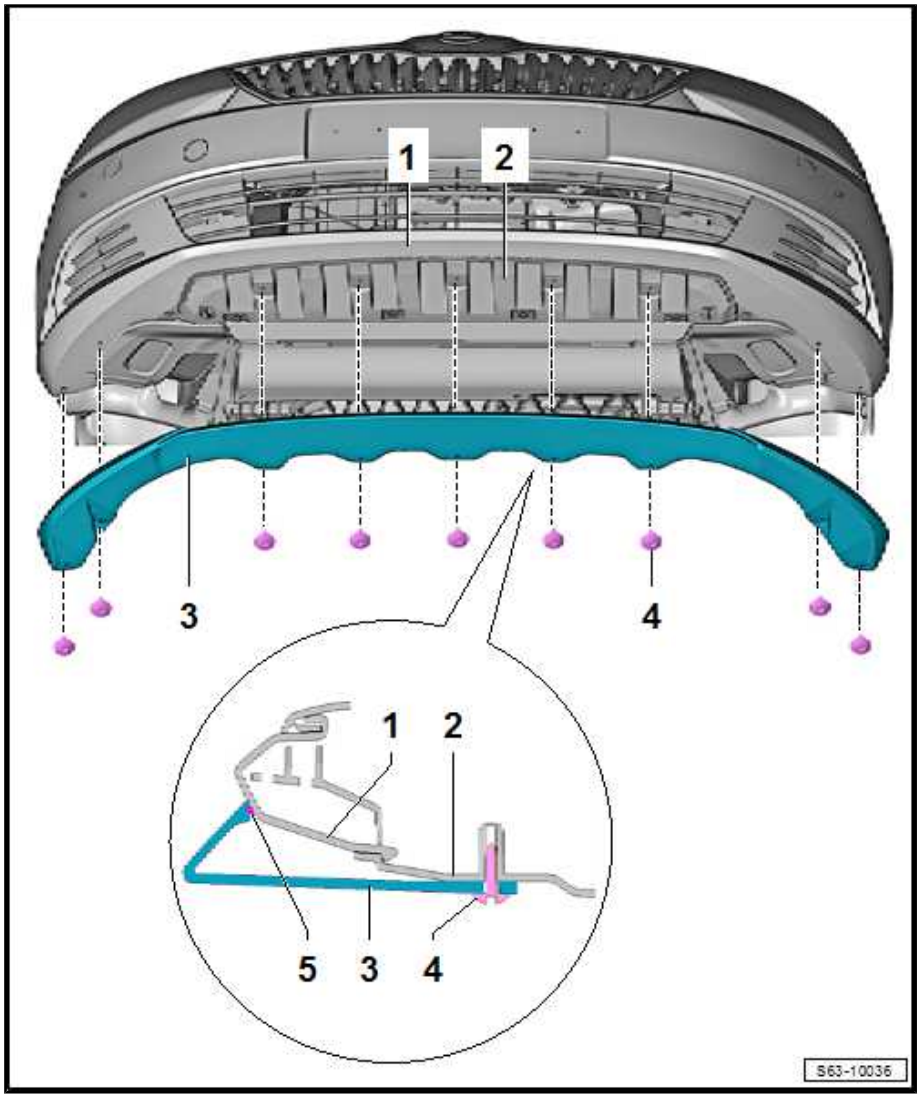
- *The ambient temperature as well as the temperature of the parts must be at least 18 °C, maximum 30 °C.*
- *After glueing the tuning parts, the vehicle must remain in a warm room for at least 3 hours.*
- *Before glueing, all of the adhesive surfaces must be degreased with good quality - the quality of the glued joint depends upon this!*

Adhesive materials	Part number	Purpose, application range	Denomination, manufacturer, comment
PUR - adhesive	D 172 090 A2	Glue tuning parts to the body.	Caution: Comply with the manufacturer's handling instructions. Filling: 310 ml
Glass/paint primer for plastic parts	D 822 150 A1	Prepare the plastic surfaces before gluing to improve adhesion of the plastic	Filling: 10 ml

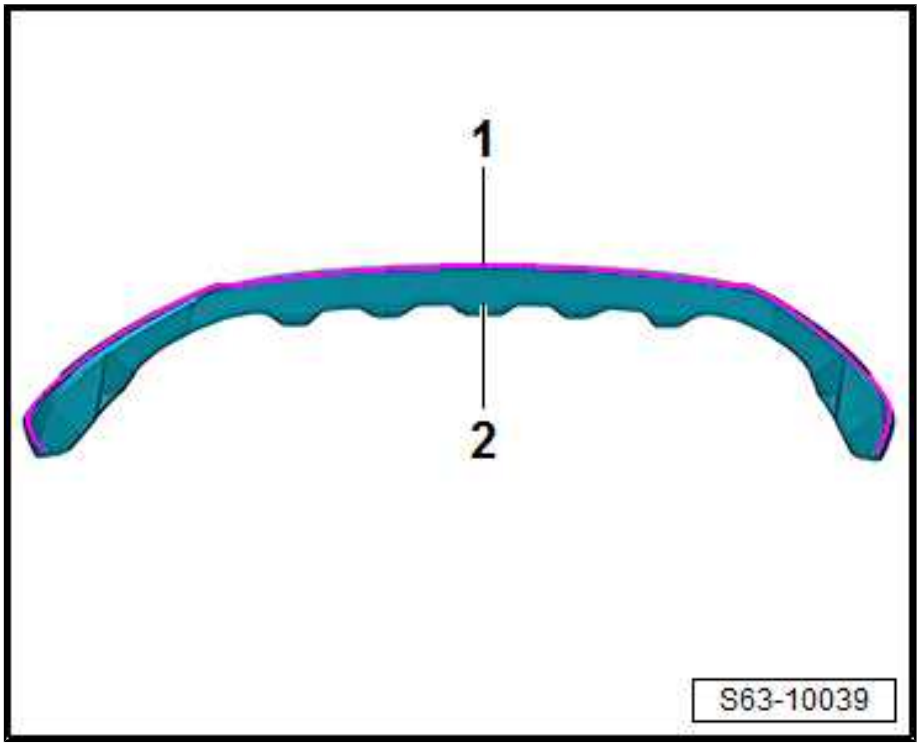
Adhesive materials	Part number	Purpose, application range	Denomination, manufacturer, comment
Glass/paint primer for plastic parts	D 009 200 02	Prepare the plastic surfaces before gluing.	Filling: 10 ml
Cleaning solution	D 195 850 A1	For cleaning all surfaces to which glass/paint primer and glue is applied.	
Applicator	D 009 500 25	Apply glass/paint primer and activator.	

Installing the spoiler

– Clean and degrease the adhesive surfaces with cleaning solution - D 195 850 A1 -.
– Apply glass/paint primer - D 822 150 A1 - to adhesive area on the plastic part -1 and 3-.
– After drying, apply glass/paint primer - D 009 200 02 - to the adhesive area on plastic part -1 and 3-.
– Apply adhesive cement -5- - D 172 090 A2.
– Press on the spoiler at a specific point.
– Install screws -4- (1.5 Nm).
– Secure spoiler against moving and ungluing e.g. with adhesive tape.



– Only apply adhesive cement to the area -1- of the spoiler -2-.



Removing

– The spoiler cannot be removed without being destroyed.

Installing the rear spoiler - Spaceback

– Apply glass/paint primer - D 822 150 A1 - to adhesive area on the plastic part -1 and 3-.

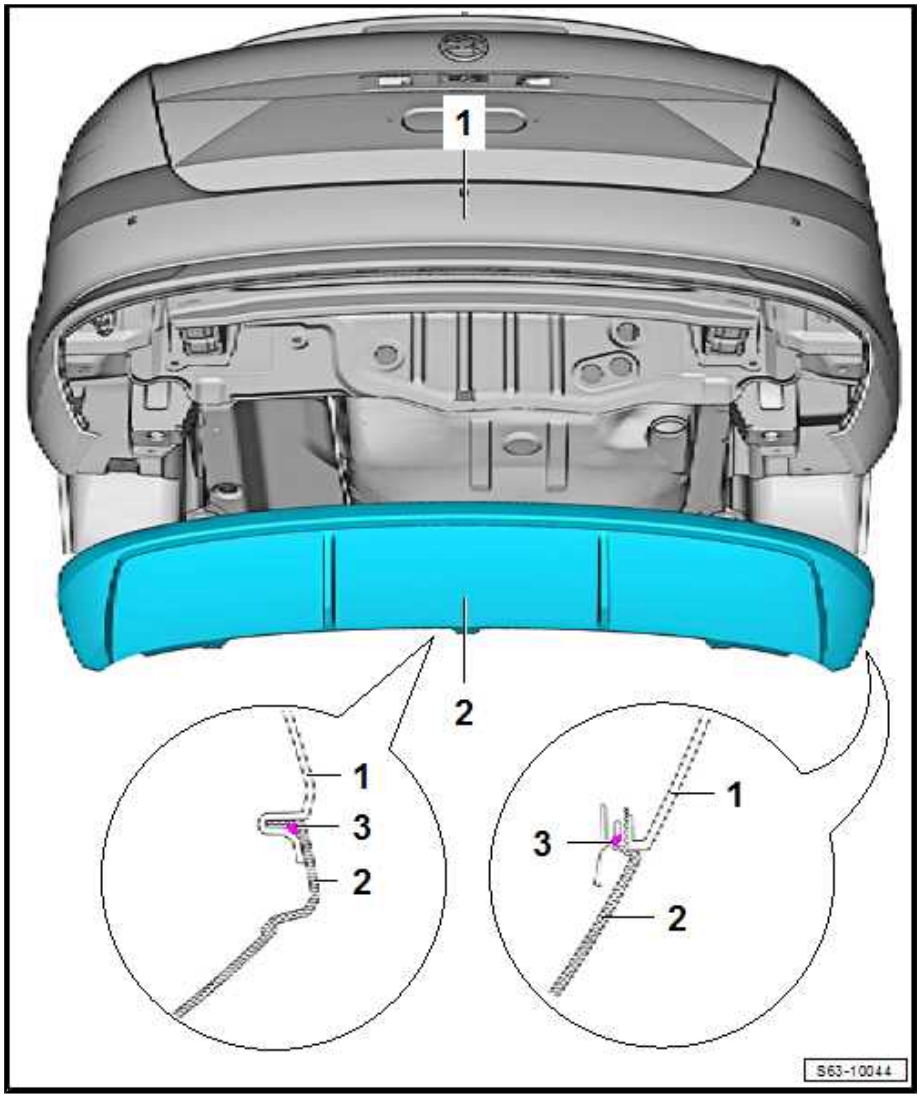
– After drying, apply glass/paint primer - D 009 200 02 - to the adhesive area on plastic part -1 and 3-.

– Apply adhesive cement -5- - D 172 090 A2.

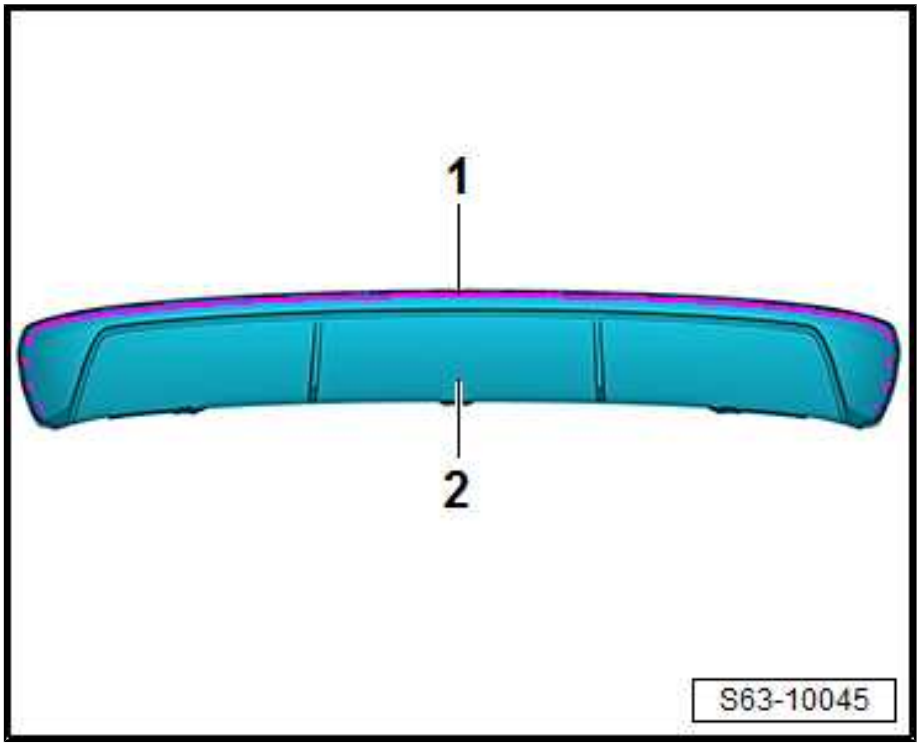
– Press on the spoiler at a specific point.

– Install screws -4- (1.5 Nm).

– Secure spoiler against moving and ungluing e.g. with adhesive tape.



– Only apply adhesive cement to the area -1- of the spoiler -2-.

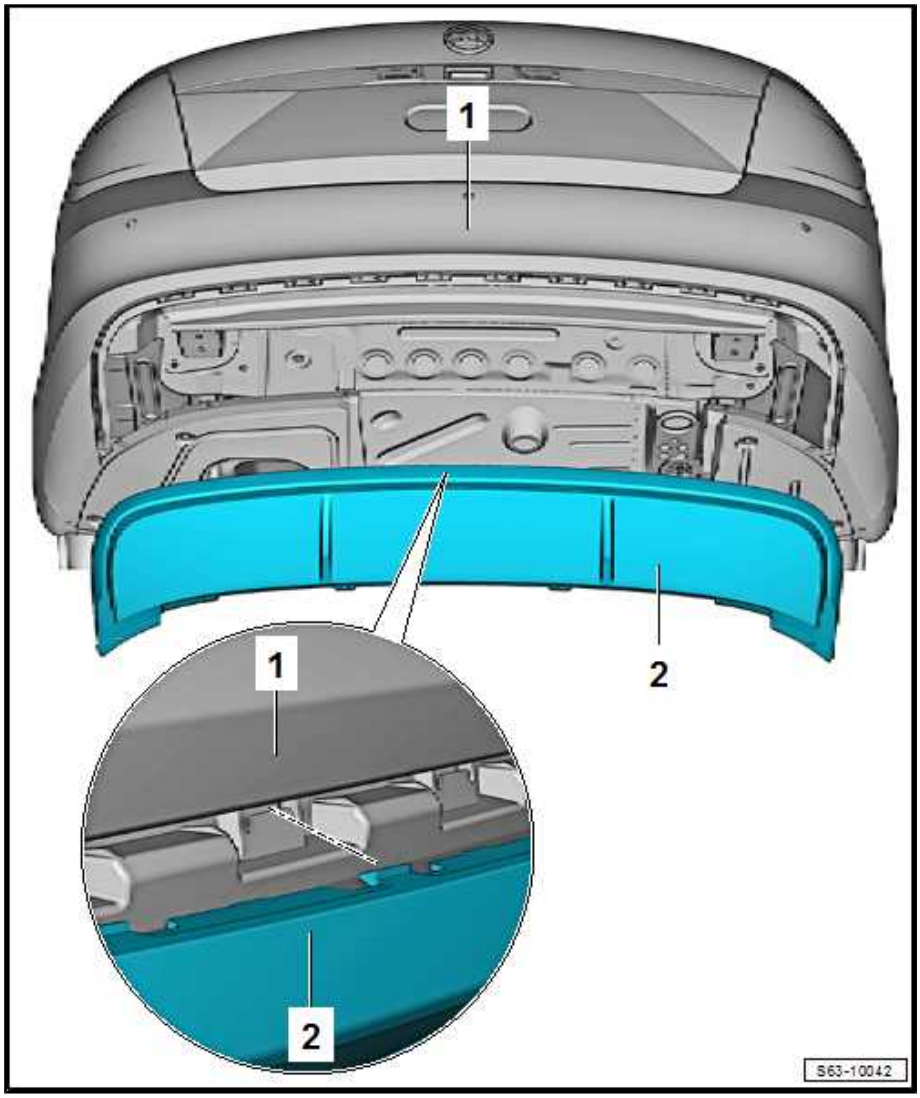


Removing

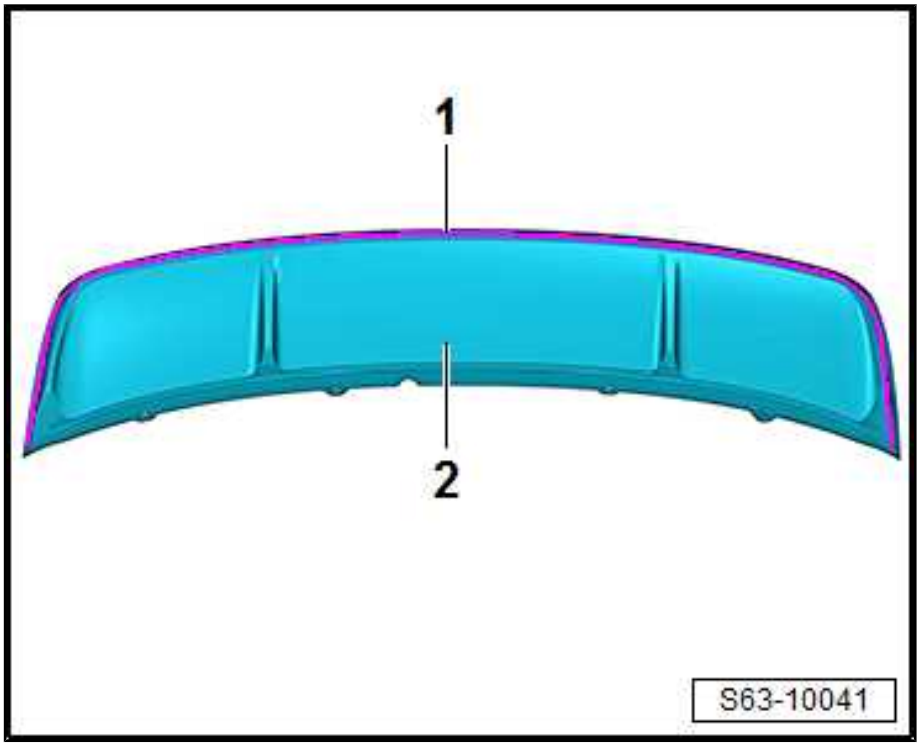
– The spoiler cannot be removed without being destroyed.

Install the rear spoiler

– Apply glass/paint primer - D 822 150 A1 - to adhesive area on the plastic part -1 and 2-.
– After drying, apply glass/paint primer - D 009 200 02 - to the adhesive area on plastic part -1 and 2-.
– Apply adhesive cement -5- - D 172 090 A2.
– Press on the spoiler at a specific point.
– Screw in screw - 4 - (1.5 Nm).
– Secure spoiler against moving and ungluing e.g. with adhesive tape.



– Only apply adhesive cement to the area -1- of the spoiler -2-.



Removing

– The spoiler cannot be removed without being destroyed.

3.3 Removing and installing door sill panel

⇒ “3.3.1 Removing and installing door sill panel ”, page 179

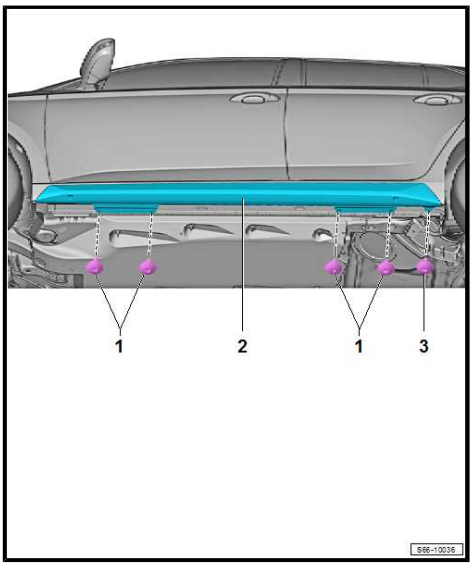
⇒ “3.3.2 Removing and installing door sill panels”, page 182

3.3.1 Removing and installing door sill panel

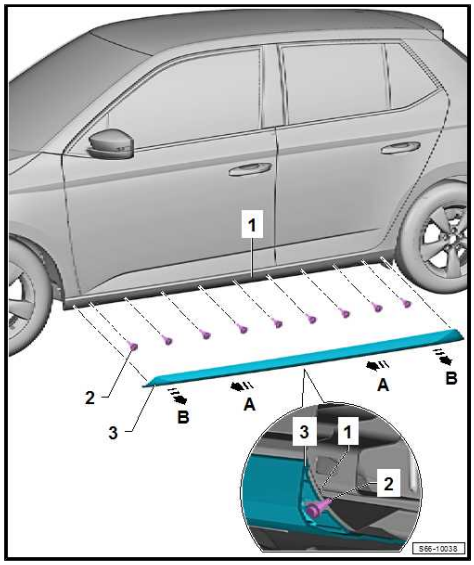
Removing

– Release screws -1- and -3-.

– Press the sill panel in direction of arrow -A-.

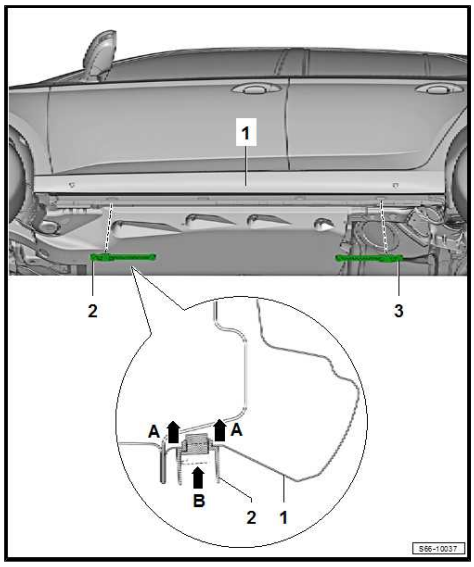


– Push out the sill panel in the direction of arrow -B-.



Installing

– Clip the front - 2 - and rear - 3 - adapters into the openings (if removed).



– Dimensions for installing the special screws.

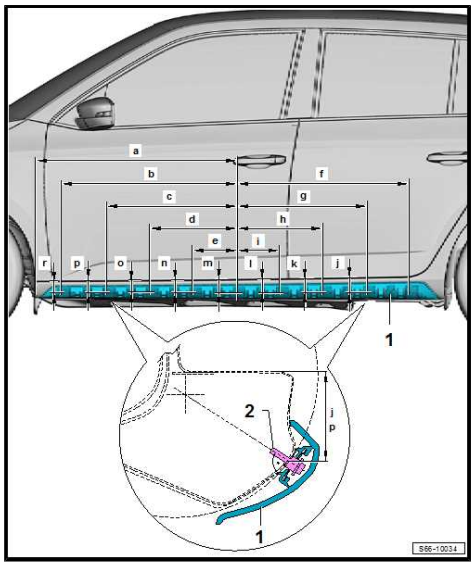


Table of dimensions

Dimension -a -	= 867.5 ± 2 mm
Dimension -b -	= 758.3 ± 1 mm

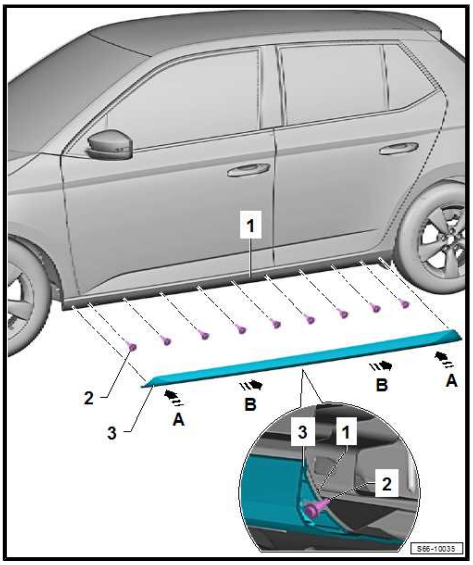
Dimension -c -	= 560.3 ± 1 mm
Dimension -d -	= 373.5 ± 1 mm
Dimension -e -	= 186.8 ± 1 mm
Dimension -f -	= 746.9 ± 1 mm
Dimension -g -	= 560.2 ± 1 mm
Dimension -h -	= 373.5 ± 1 mm
Dimension -i -	= 186.8 ± 1 mm
Dimension -j -	= 62.4 mm
Dimension -k -	= 60.7 mm
Dimension -l -	= 58.8 mm
Dimension -m -	= 56.9 mm
Dimension -n -	= 54.9 mm
Dimension -o -	= 52.7 mm
Dimension -p -	= 50.5 mm
Dimension -r -	= 48.2 mm

– Do not predrill holes for screws -2- (1.2 Nm), they are self-tapping.

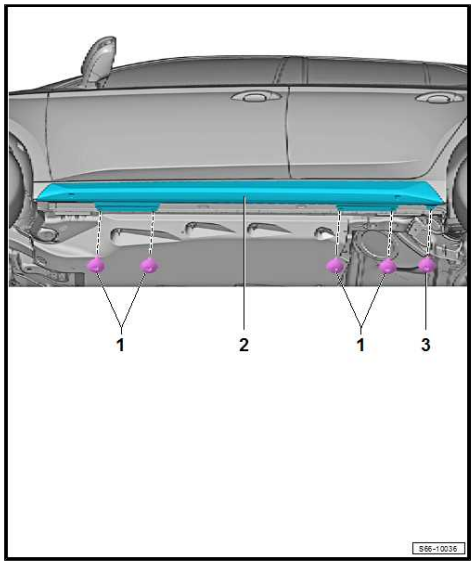
Note

A second mechanic is required to push out the sill panel -2-.

– Push out the sill panel -3- in direction of arrow -A-.
– Press the sill panel -3- onto the side rail and slide along it in direction of arrow -B-.



– Install screws -3- (2.5 Nm) and -1- (1.5 Nm).



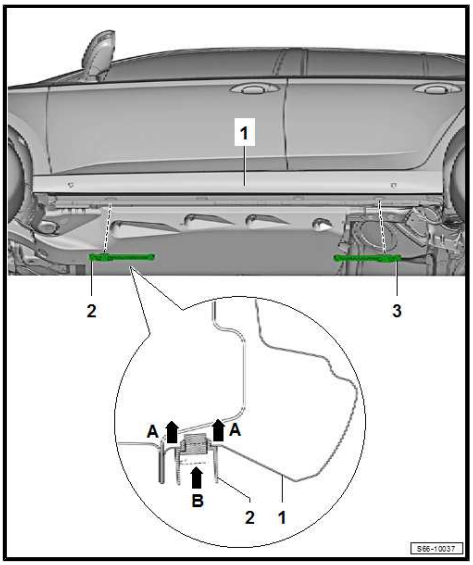
3.3.2 Removing and installing door sill panels

Note

- *The ambient temperature as well as the temperature of the parts must be at least 18 °C, maximum 30 °C.*
- *After glueing the tuning parts, the vehicle must remain in a warm room for at least 24 hours.*
- *Before glueing, all of the adhesive surfaces must be degreased with good quality - the quality of the glued joint depends upon this!*
- *Ensure thorough ventilation of the working area.*
- *The adhesive surface of attachments must not be painted!*
- *Attachments can only be glued to the vehicle after thorough curing of the body paint.*

Adhesive materials	Part number	Purpose, application range	Denomination, manufacturer, comment
Glue sealing material	Betalink K2	Glue tuning parts to the body.	Observe the manufacturer DOW's instructions.
Activator	Betaprime 5600-1	Prepare the surfaces before gluing to improve adhesion.	DOW
Cleaning solution	Terostat 8550	For cleaning all surfaces to which glass/paint primer and glue is applied.	Henkel
Applicator	D 009 500 25	For applying the activator.	

Mount side rail attachments

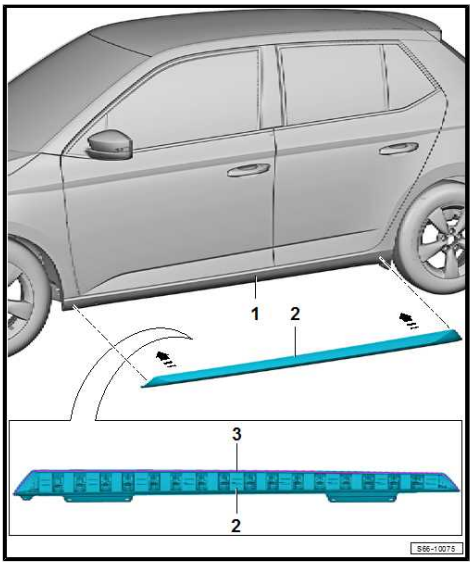


- Insert the adapters into the holes after removing blind plugs - 2 and 3 -.
- Wash the surfaces with a mild detergent solution and rinse with clean water.
- Clean surface with Terostat 8550 cleaner and degrease, then allow to ventilate (10 minutes).
- Check the position of the end piece and check whether the rear bore on the end piece is aligned with the bore of the plastic wheel housing rear end, and that the other four holes are aligned with the adapter holes.
- Carefully ark the designated area of the endpiece with sand-paper (grain size 80).
- Clean surface with Terostat 8550 cleaner and degrease, then allow to ventilate (10 minutes).

Note

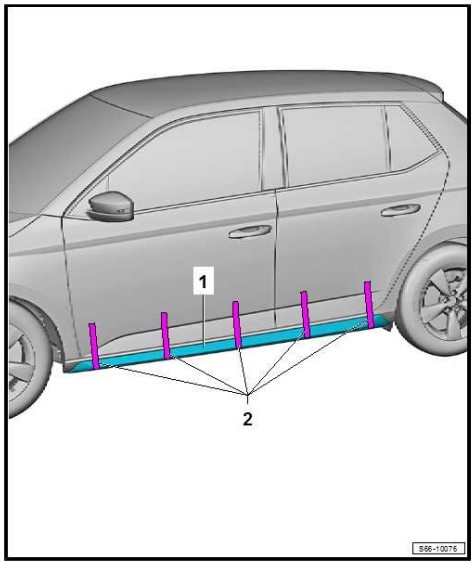
The adhesive surface must be completely free of grease, lacquer residue and primer.

- Apply activator Betaprime 5600-1 to the cleaned surfaces and allow to ventilate (10 minutes).
- Spray the nozzle of the adhesive cement so that the inner diameter is approx. 8 mm.
- Apply adhesive to all surfaces that come into contact with the side rail.
- With a second mechanic, place the lower side of the end piece onto the adapter mounting holes.



- Do not press the upper edge yet.
- Attach the middle screws to the adapter (do not tighten), press the attachment on the side rail, install the screw on the rear of the extension and then install the screws on the outside of the adapter.
- Do not displace the side rail end piece since the adhesive can flow over the edges of the end piece.
- Tighten the screws to 2.5 Nm (adapter connections) and the rear screw (rear wheel hub connection) to 1.5 Nm.

– Attach the attachment with tape approximately as shown.
– Remove the adhesive tapes from the endpiece after one hour.
– Remove queezed out parts of the adhesive cement, e.g with a plastic spatula and clean with a cleaner.



Note

Do not drive into the carwash within 24 hours of gluing on the attachments.

Remove side rail attachments

Note

- *The side rail attachments cannot be removed without damage.*
- *After removaing the side rail, check the lacquer on the side rail.*

– Cover the painted surfaces in the attachment area with textile adhesive tape.
– Remove all screws for picking up the end piece.
– Heat the glued connection points gradually with hot air blowers.
– Cut off the attachment with accessible workshop equipment (cut through sealing material).
– Remove the old adhesive using a standard workshop tool and an adhesive remover (if a new end piece is glued to the side rail).

3.4 B-pillar trim panel

3.4.1 Summary of components

1 - B-pillar trim panel

2 - Fixing pins

- ❑ Part of the trim.

3 - Screw

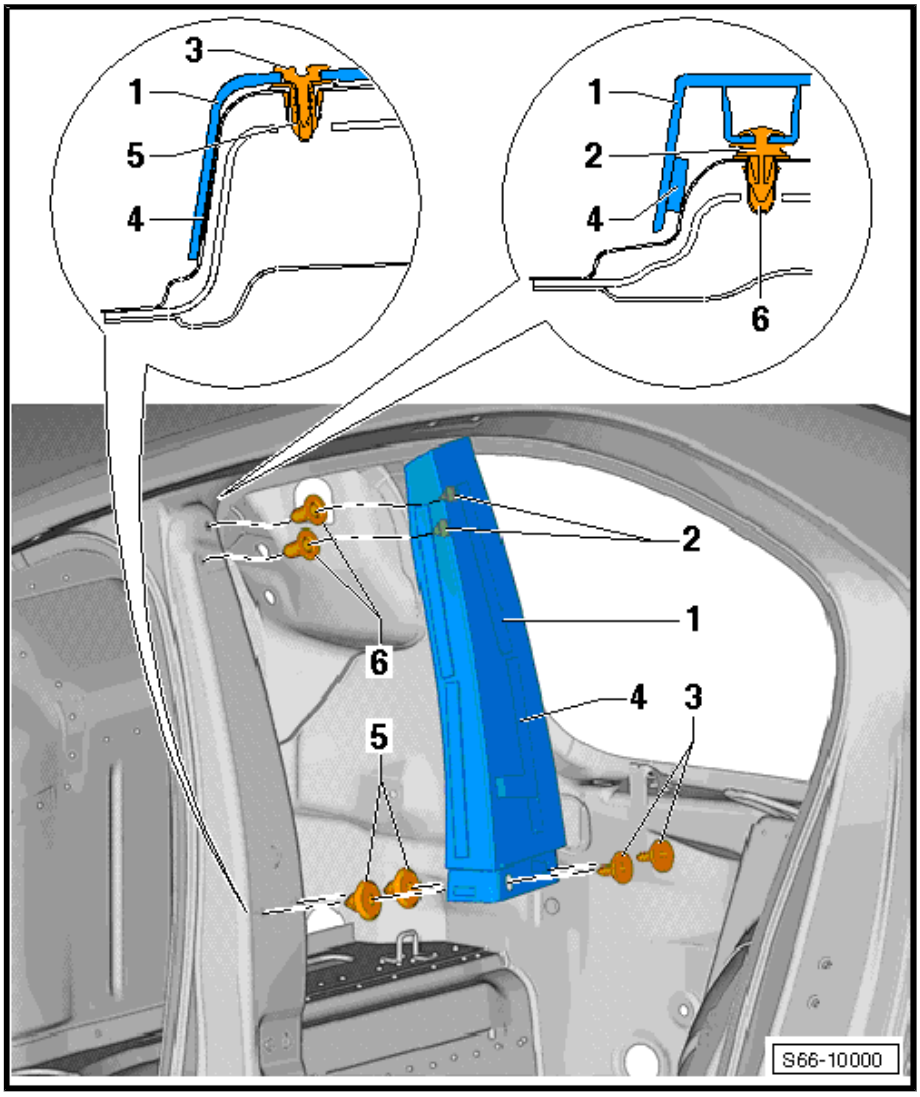
- ❑ Tightening torque - 1.8 Nm.

4 - Foam strip

- ❑ Self-adhesive.

5 - Dowel

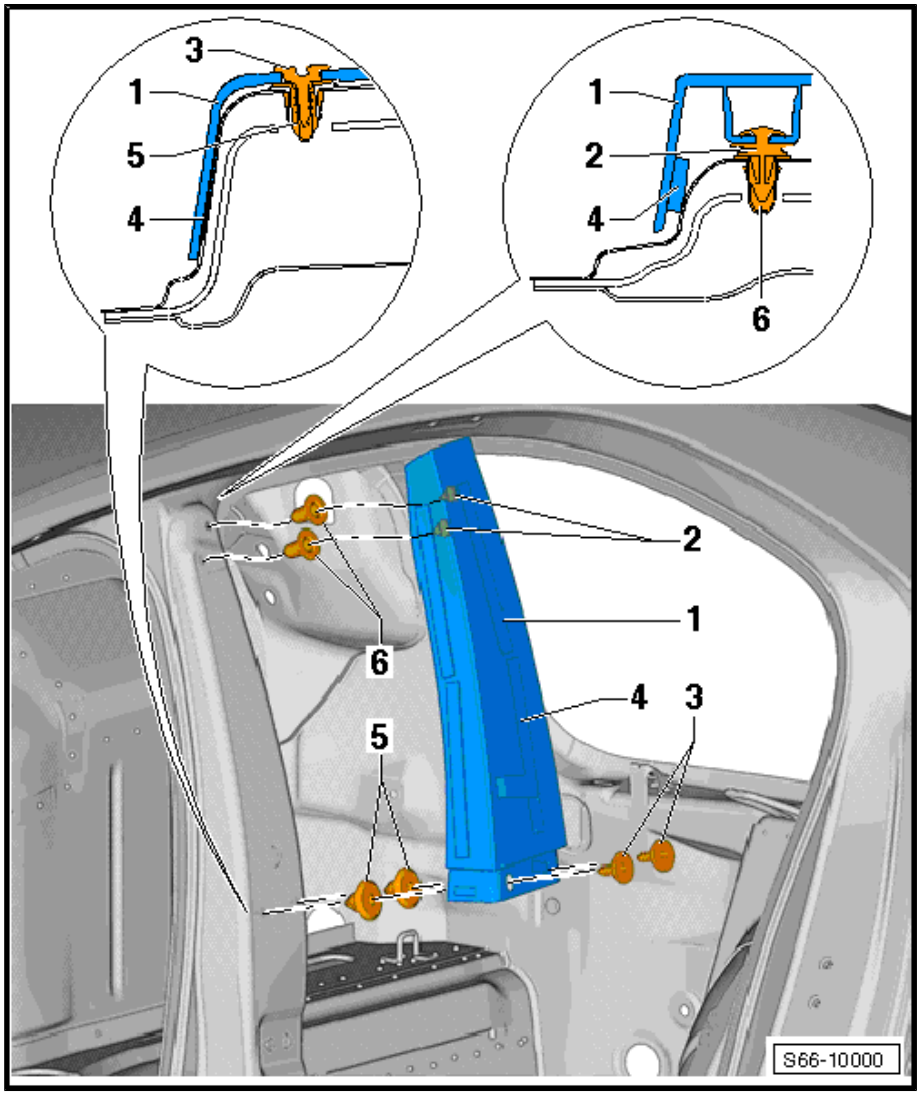
6 - Grommet



3.4.2 Removing

Note

The trim cannot be removed without being destroyed.



Carry out the following tasks

- Remove screws -3- (1,8 Nm).
- Lever the fixing pins -2- out of the grommets -6- e.g. using a wedge.
- The fixing pins will probably tear and remain in the grommets -6-.
- Remove the trim -1- from the B pillar.
- Remove residues of torn pins and glue residues from the self-adhesive strips - 4 -.

Installing

- The installation occurs in reverse order.

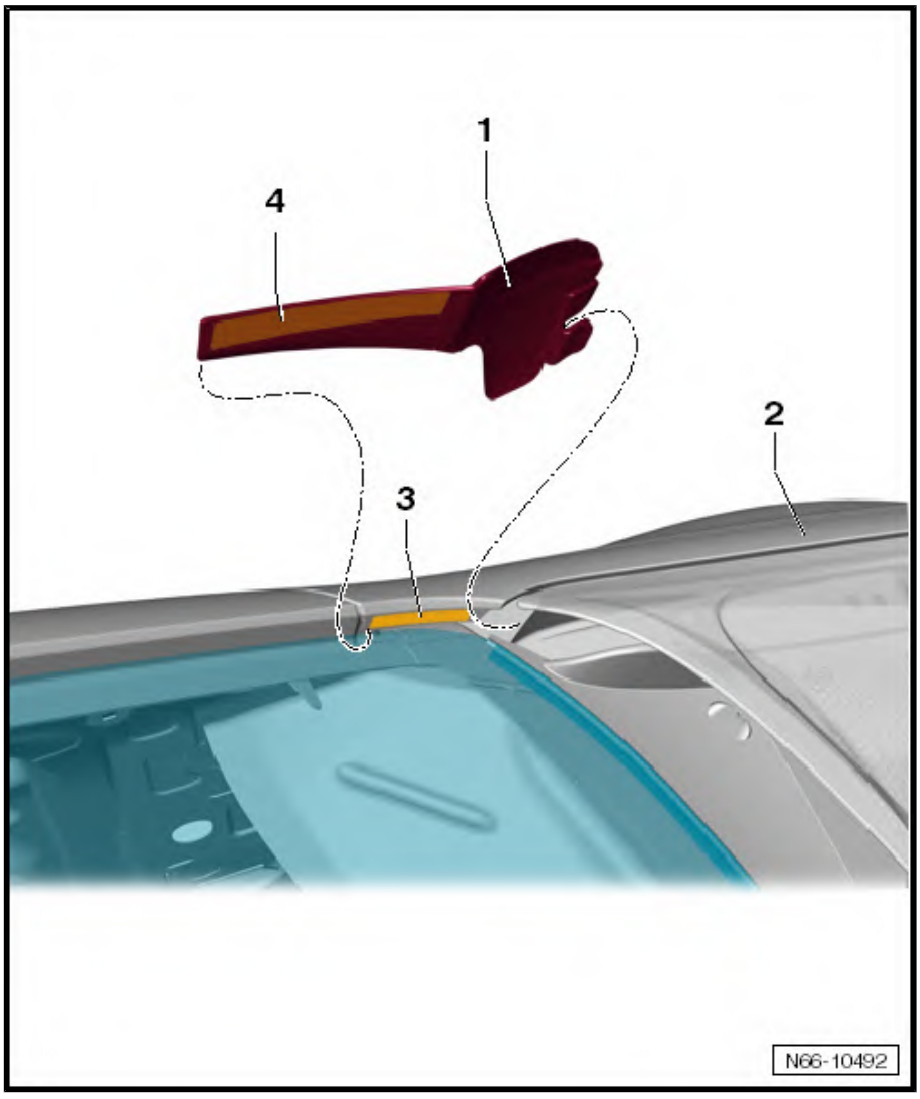
3.5 Cover strip of wing

3.5.1 Installation instructions for cover strip of wing

Note

- *Use only the glue remover - D 002 000 10- .*
- *Make sure that the adhesive surfaces are free from dust and grease.*
- *The cover trip must be glued on immediately after cleaning.*
- *Remove protective foil from its wrapping until just before assembly.*
- *The processing temperature is about 21 °C.*

3.5.2 Removing and installing cover strip of wing



Removing

– Detach the cover strip -1- from the wing -2-.

Installing

– Remove glue residues -3-.

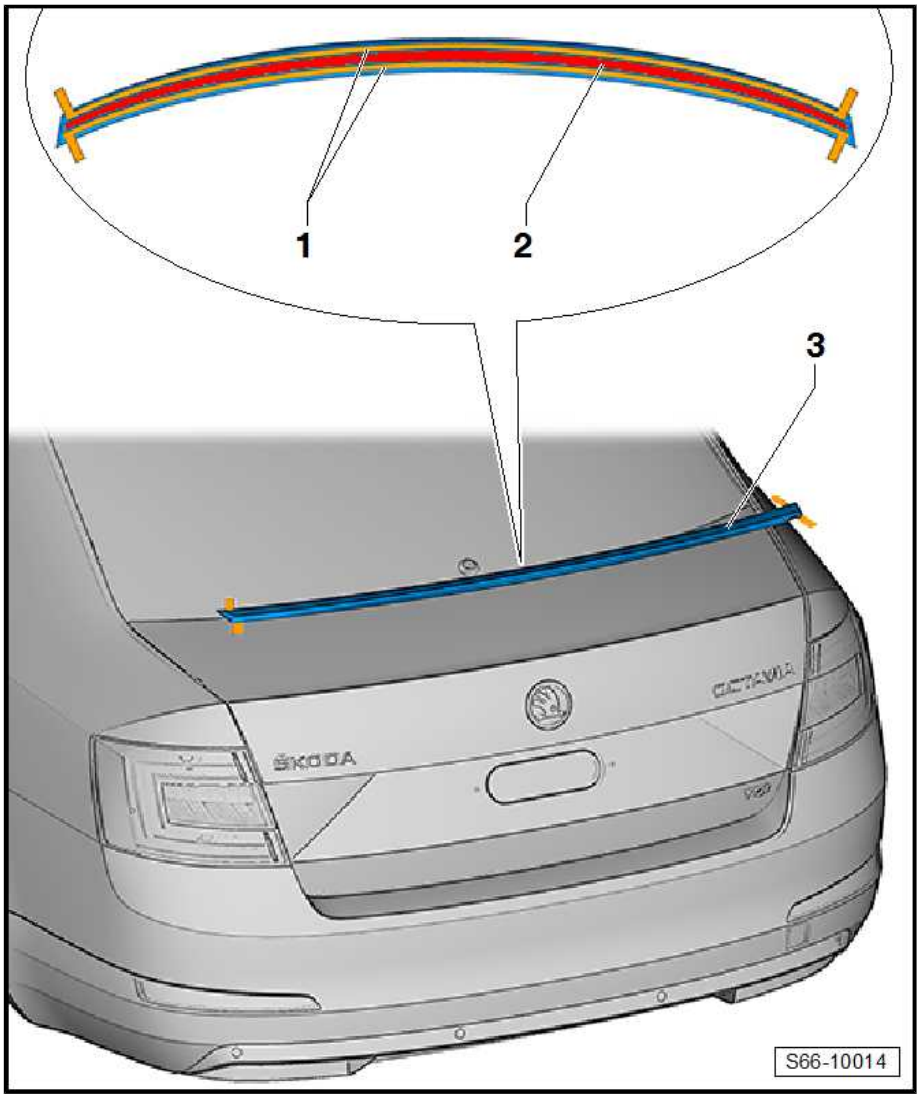
– Slide the cover strip onto the wing -2-.

– Detach the protective foil - 4 -.

– Forcefully press the cover strip -1- onto the adhesive surface -3- at the wing -2-.

4 Rear spoiler

4.1 Rear spoiler - Rapid



– Rear spoiler -3-.
– Adhesive tape -1-.
– Glue sealing material -2-.

Removing the rear spoiler

– Cover the painted surfaces along the spoiler with textile adhesive tape.
– Cut off spoiler from the tailgate (cut through glue sealing material) and cut off double-sided adhesive tape, e.g. with cutting cord -357 853 999 B - .
– Remove the spoiler.

Install the rear spoiler

Note

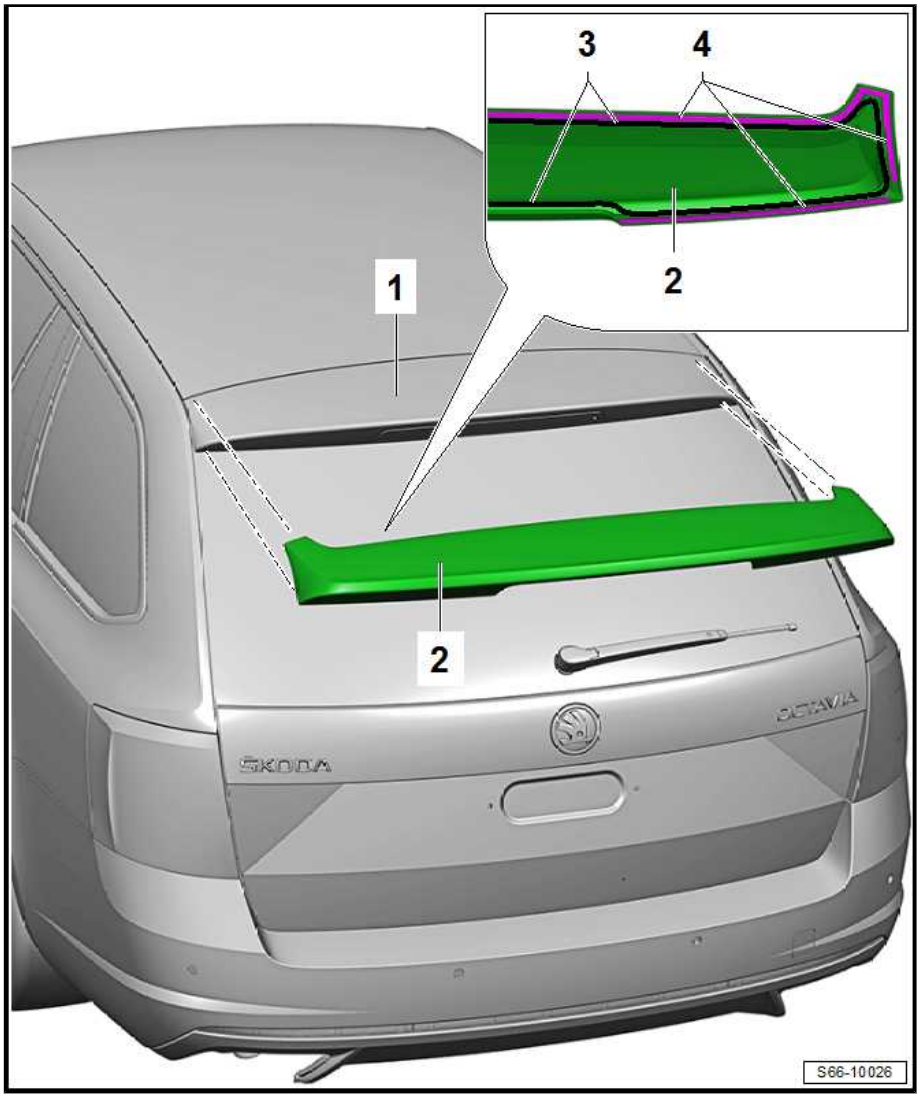
The ambient temperature must be above 18°C during the gluing procedure of the spoiler!

- Thoroughly clean the adhesive surfaces e.g. with cleaning solution D 009 401 04.
- Apply glue sealing material D 172 090 A2 into the guiding groove (Pos. 2) in the spoiler.
- Stick on the spoiler within 15 minutes after applying the glue sealing material!
- Partially unglue the protective foil from the adhesive tape on the edges.
- Position the spoiler evenly onto the tailgate.
- Maintain an equal gap of 2 mm from the side tailgate edge.
- Remove the protective foil from the adhesive tape.
- Press the spoiler evenly onto the tailgate.
- Secure spoiler against moving with adhesive tape.

Note

- *The adhesive cement must dry for 2 hours. Do not drive the vehicle in this time.*
- *Do not drive into the carwash within 24 hours of gluing on the spoiler.*

4.2 Rear spoiler - Spaceback



1. Tailgate
2. Spoiler
3. Glue sealing material
4. Double-sided adhesive tape

Removing

Note

Removal is not possible without paint damage to luggage compartment and spoiler.

– Cover the painted surfaces along the spoiler with textile adhesive tape.
– Cut off spoiler from the tailgate with available workshop means (cut through glue sealing material).
– Remove the spoiler.

Installing

Note

The ambient temperature must be above 18°C during the gluing procedure of the spoiler!

- Thoroughly clean the adhesive surfaces e.g. with cleaning solution D 009 401 04.
- Apply glass/paint primer D 181 650 A1 to the adhesive surfaces of the spoiler and let them dry off.
- Apply glue sealing material D 172 090 A2 into the guiding groove in the spoiler.
- Stick on the spoiler within 15 minutes after applying the glue sealing material!
- Partially unglue the protective foil from the adhesive tape on the edges.
- Position the spoiler evenly onto the tailgate.
- Maintain an even gap.
- Remove the protective foil from the adhesive tape.
- Press the spoiler evenly onto the tailgate.
- Secure spoiler against moving with adhesive tape.

Note

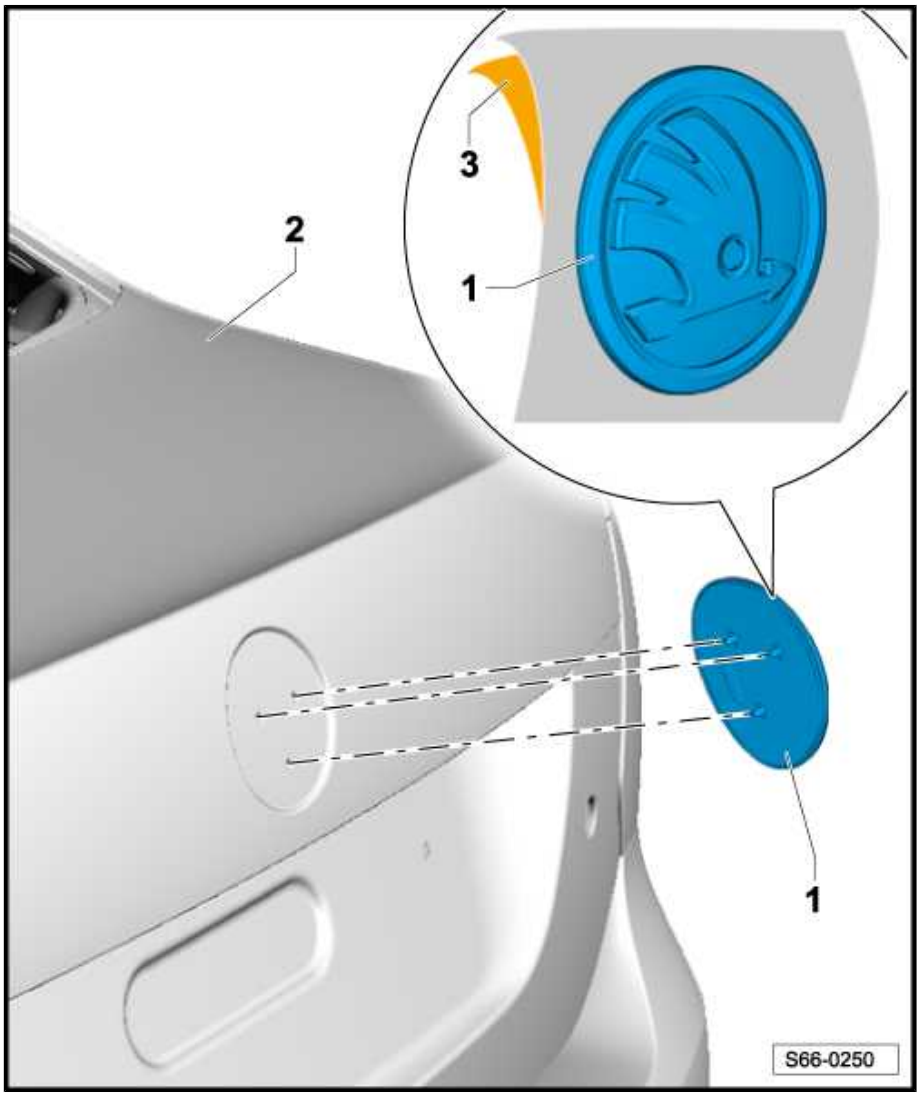
- *The glue sealing material must dry for at least 2 hours. Do not drive the vehicle in this time.*
- *Do not drive through the carwash within 24 hours of gluing on the spoiler.*

5 Letterings

5.1 Installation instructions

- Warm up the letterings with a hot-air blower before removing.
- If a lettering is removed or installed, only use the glue remover - D 002 000 10- to remove the glue residues.
- If necessary, remove adhesive residues from the adhesive tape.
- Make sure that the adhesive surfaces are free from dust and grease.
- The letterings must be glued on immediately after cleaning.
- Remove protective foil from its wrapping until just before assembly.
- The processing temperature is about 21 °C.
- The letterings cannot be removed without being damaged.

5.2 Removing and installing the emblem on the tailgate



Removing

– Warm up the emblem - 1 - with a hot-air blower before removing.

– Remove the logo from the tailgate - 2 -.

Installing

– Pay attention to installation instructions
⇒ “5.1 Installation instructions”, page 193 .

– Detach the protective foil - 3 -.

– Place the emblem - 1 - with the centering pins into the embossed area of the tailgate - 2 -.

– Forcefully press on the emblem - 1 - .

5.3 Dimensions of letterings on the tailgate - Spaceback

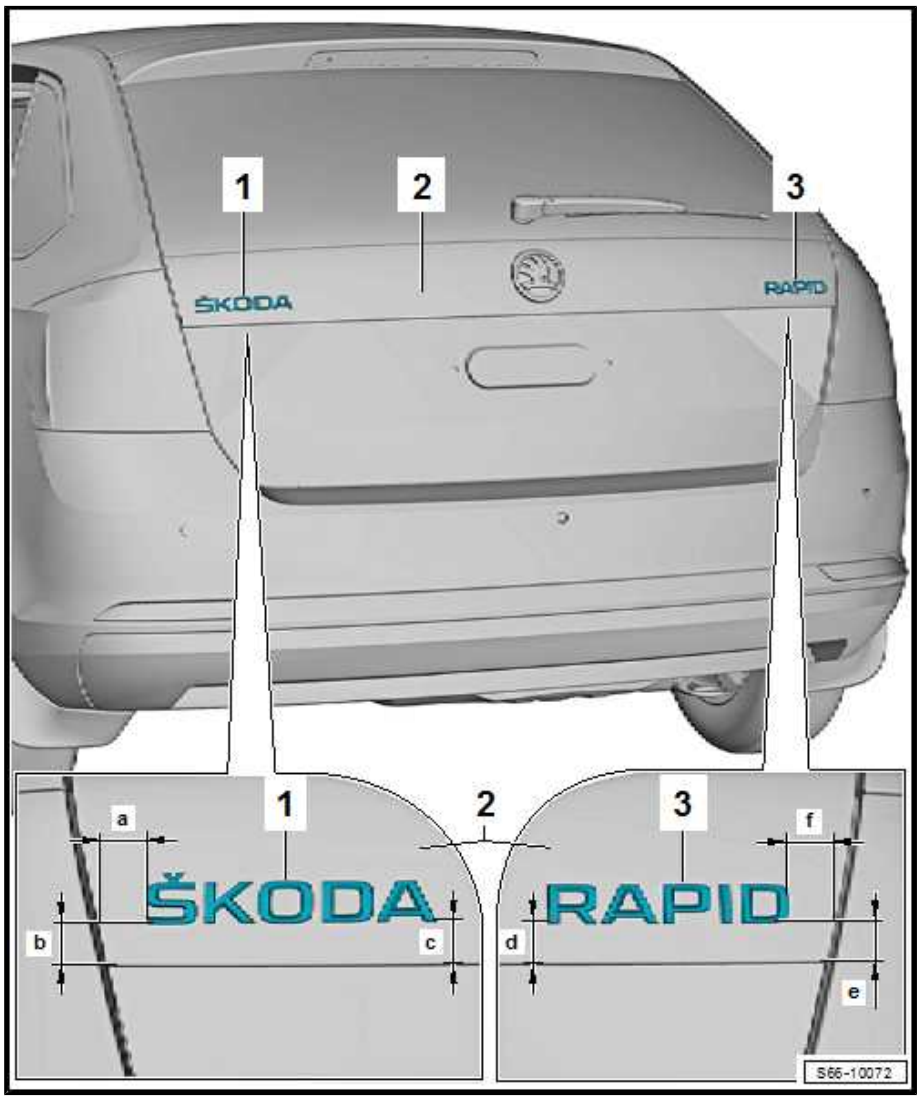
1 - Škoda lettering

- ❑ a = 28.1 ± 0.25 mm
- ❑ b = 23.2 ± 0.25 mm
- ❑ c = 23.4 ± 0.25 mm

2 - Tailgate

3 - Rapid lettering

- ❑ d = 23.5 ± 0.25 mm
- ❑ e = 23.4 ± 0.25 mm
- ❑ f = 27.8 ± 0.25 mm



5.4 Dimensions of letterings on the tailgate - Rapid

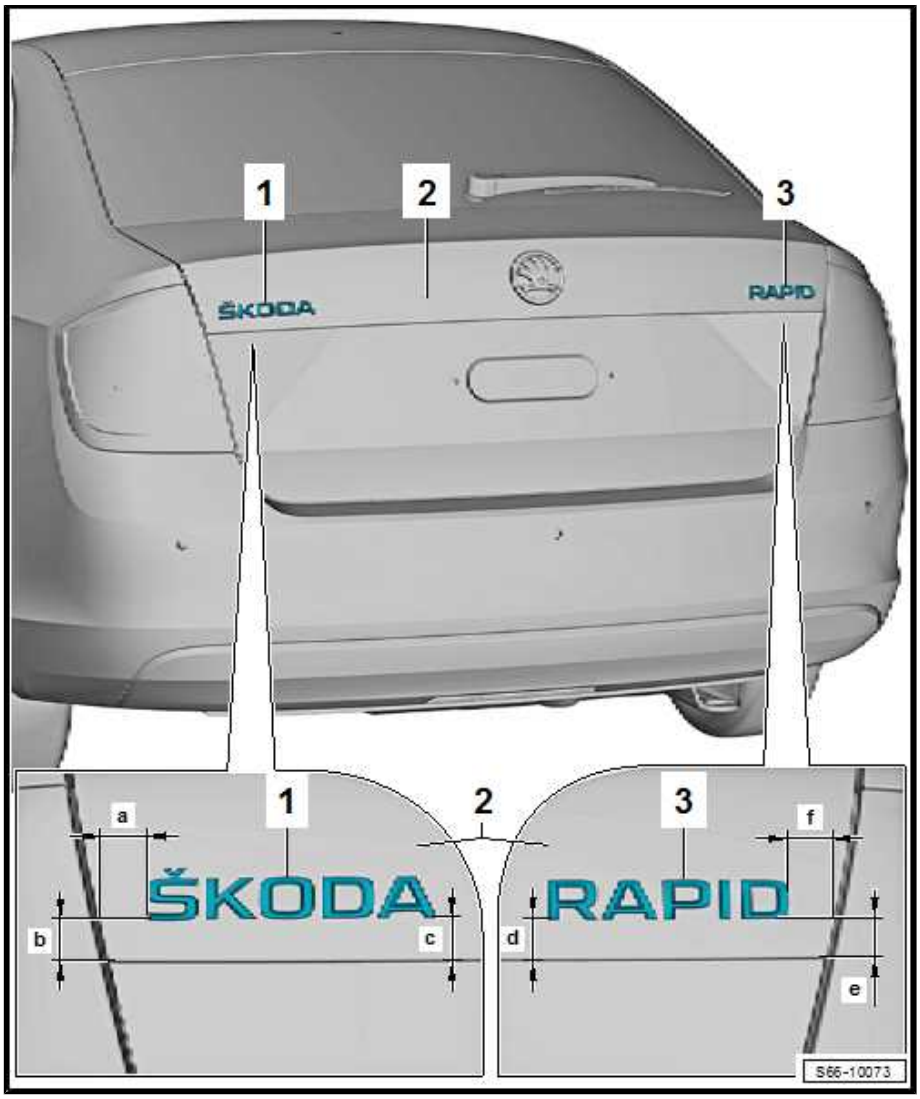
1 - Škoda lettering

- a = 28.6 ± 0.25 mm
- b = 23.4 ± 0.25 mm
- c = 23.4 ± 0.25 mm

2 - Tailgate

3 - Rapid lettering

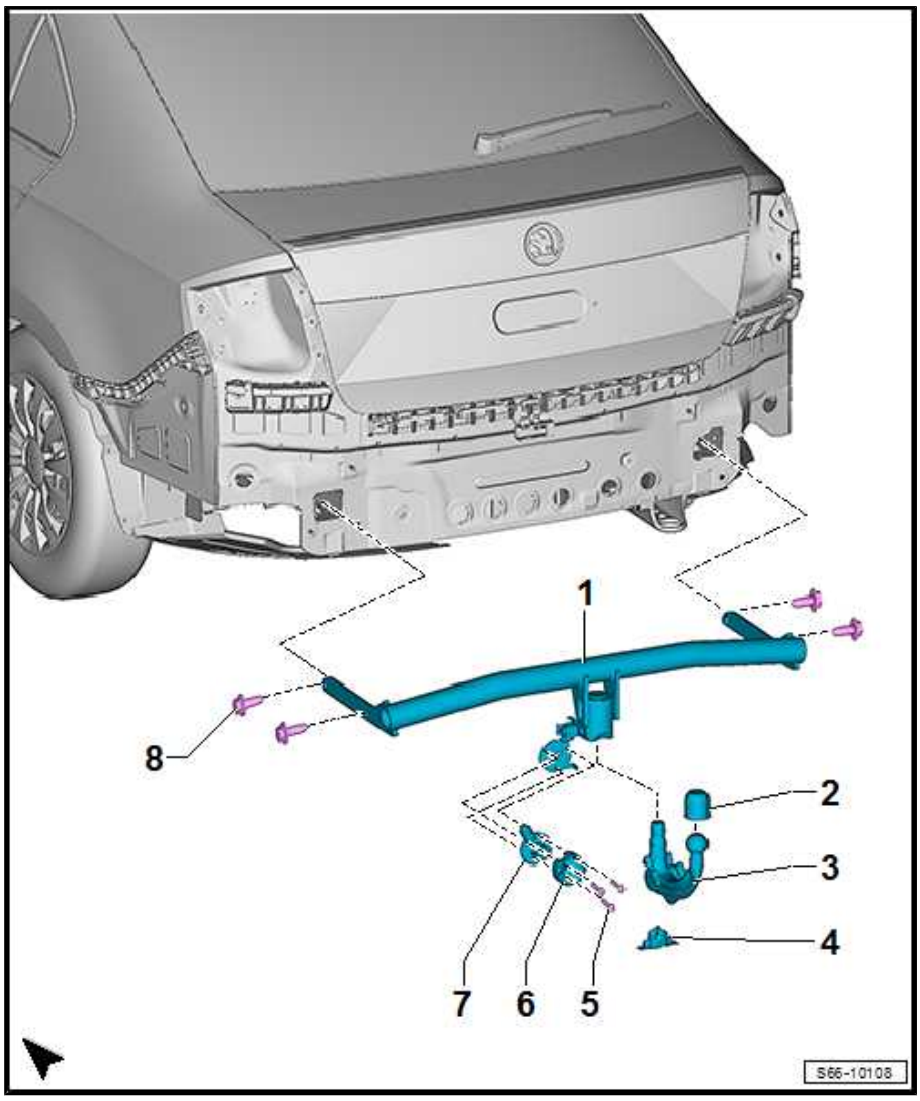
- d = 23.2 ± 0.25 mm
- e = 23.2 ± 0.25 mm
- f = 28 ± 0.25 mm



5.5 Trailer coupling

⇒ “5.5.1 Summary of components - Trailer coupling”, page 196 .

5.5.1 Summary of components - Trailer coupling



1 - Trailer coupling frame

Removing

– Remove the rear bumper ⇒ “2.1.2 Remove the rear bumper”, page 136 .

– Remove power socket -6-.

– Release screws ⇒ Item 8 (page 196) .

– Pull out trailer hitch frame backwards.

Installing

– The installation occurs in reverse order.

2 - Protective cap

3 - Trailer arm

Removing and installing

– Carry out the removal and installation according to the instructions of the manufacturer of the trailer coupling.

4 - Adhesive pad

♦ Insert into the hole after removing the trailer arms.

5 - Screw

❑ 2.5 Nm.

6 - Power socket

Removing

– Remove screws (Pos. 5).

7 - Wiring loom

8 - Screw

❑ 55 Nm + 90° .

❑ 55 Nm + 180° - Spaceback.

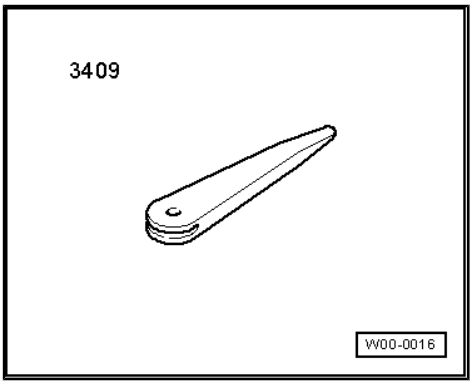
68 – Interior equipment

1 Interior rear-view mirror

1.1 Tools

Special tools and workshop equipment required

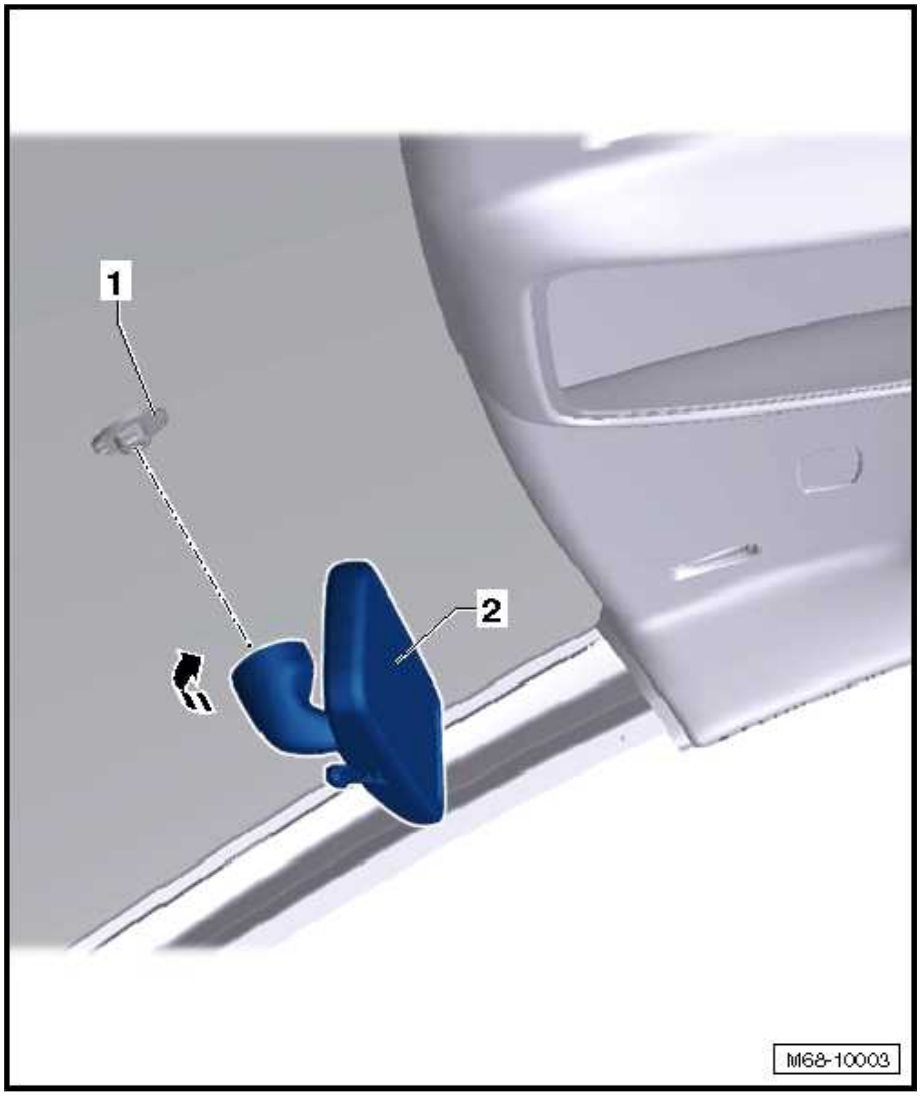
- Disassembly wedge - 3409-



1.2 Removing and installing the interior rear-view mirror

1.2.1 Removing

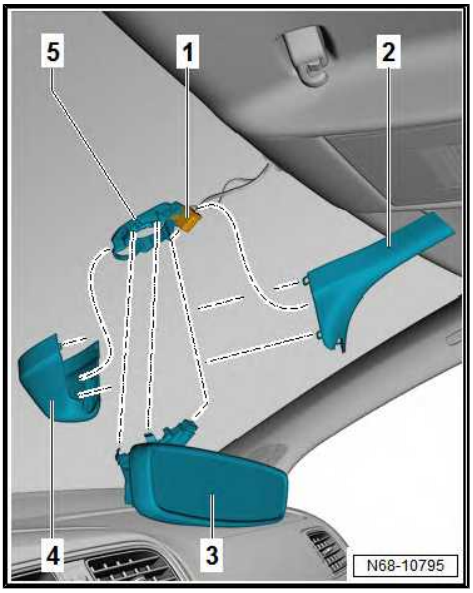
– Turn interior mirror -2- by 90° in -direction of arrow- and remove from the retaining plate -1-.



Installing

– The installation occurs in reverse order.

1.2.2 Removing interior rear-view mirror with rain and light detector sensor



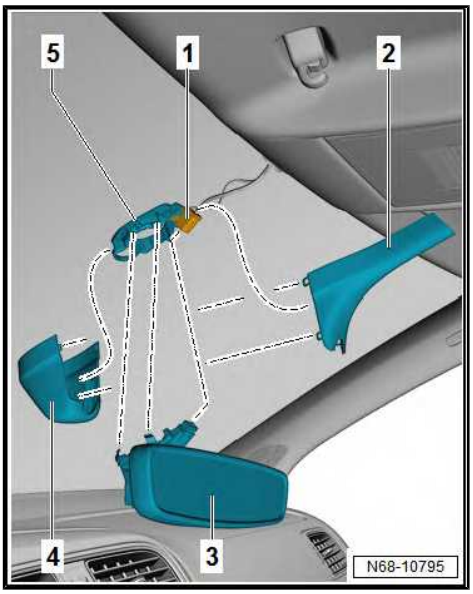
Removing

- Switch off the ignition and all electrical components.
- Unclip cable cover -2-.
- Unclip cover -4- from the retaining plate.
- Turn mirror -3- 20° anticlockwise.
- Remove mirror -3- from retaining plate -5-.
- Disconnect connector -1- from plug connection.

Installing

- Insert connector -1- into plug connection.
- Turn mirror -3- 20° anticlockwise and position to retaining plate -5-.
- Ensure the mirror is seated parallel and turn clockwise until it locks into place.
- Install cap -4-.
- Install cable cover -2-.

Removing retaining plate for interior mirror with sensor for rain and light detection



Note

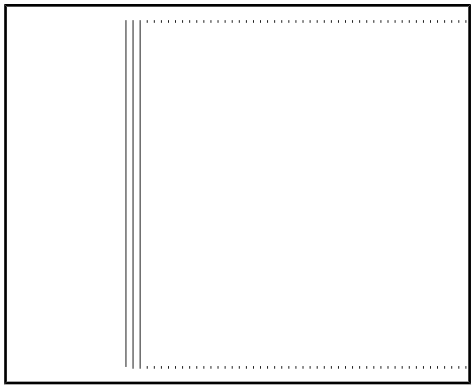
The retaining plate for interior mirror with sensor for rain and light detection cannot be glued on under workshop conditions. Is part of the windscreen.

1.3 Glueing the retaining plate for the interior rear-view mirror

1.3.1 Materials

- Glass metal adhesive kit - D 000 703 A1-

1.3.2 Installing



Tools

1 - Glass scraper (commercially available)

2 - Blade (commercially available)

Carry out the following tasks

– Remove retaining plate from mirror pedestal.

– Remove PUR adhesive kit from the retaining plate with a wire brush.

– Grind down the three distance knobs on the adherent. Place abrasive paper (grain 360/400) on a flat surface.

– Sanded surfaces must be clean and free from grease.

– Using the glass scraper, scrape the old PUR adhesive and glass/paint primer residues down to the ceramic layer on the windscreen.

– Clean the bonding surface with glue remover - D 002 000 10- or cleaning solution - D 009 401 04- .

WARNING

Do not damage the ceramic layer. Scratches remain visible.

– Cut a piece of nylon net fabric to the exact size of the retaining plate.

Note

Wear hand protection (rubber gloves).

– Apply adhesive evenly on the retaining plate.

– Fit a piece of nylon net fabric onto the retaining plate.

– Continue applying adhesive by dabbing on the nylon net fabric.

Once the nylon net fabric is placed on the adhesive, you only have 30 seconds to press it onto the windscreen.

– Press the retaining plate steadily onto the windscreen for 15 seconds (do not force).

– Remove excess adhesive with a cloth.

Note

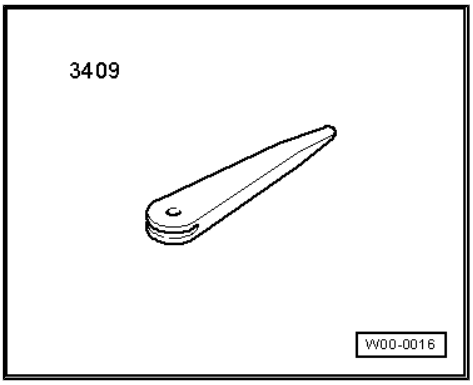
Install the interior rear-view mirror after 15 minutes.

2 Covers, storage areas and trim panels

2.1 Tools

Special tools and workshop equipment required

- Disassembly wedge - 3409-

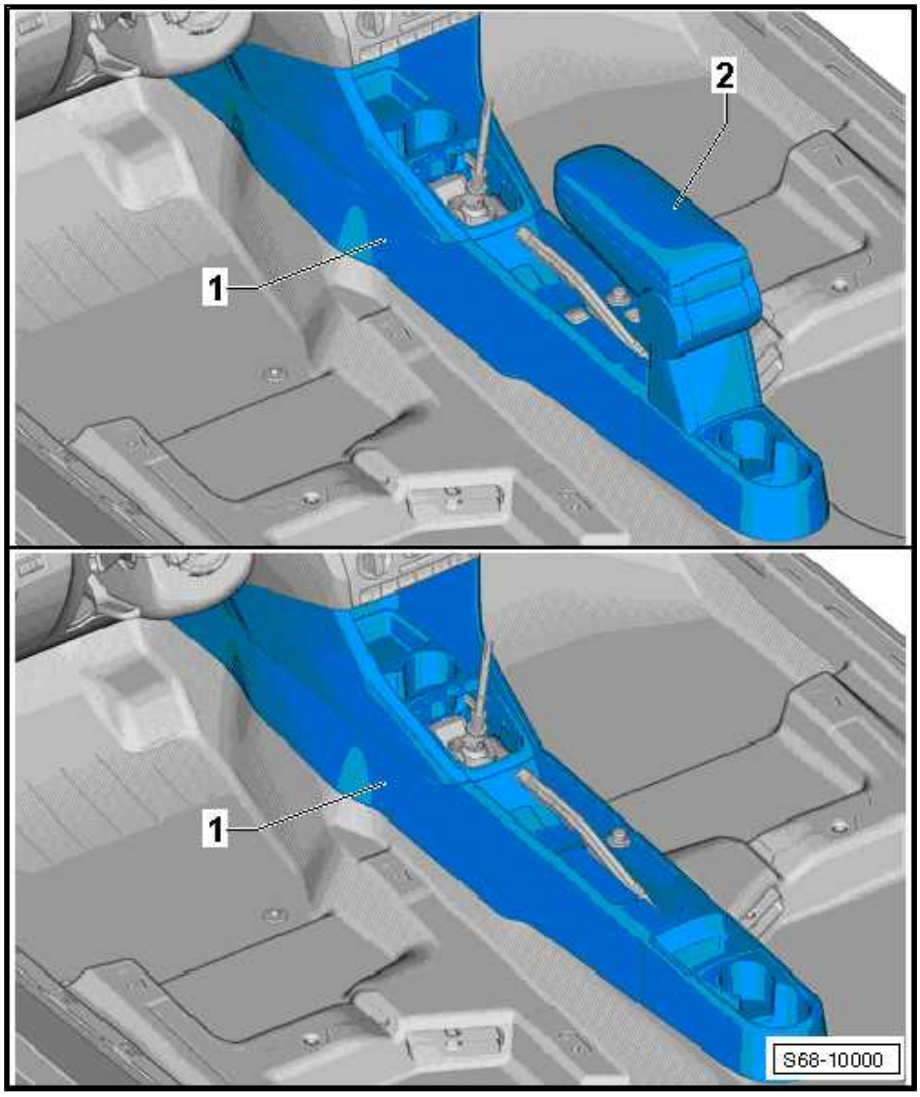


2.2 Centre console

2.2.1 Summary of components

1 - Centre console

2 - Armrest



2.2.2 Removing and installing centre console

1 - Drink holder and storage area

- ❑ Clipped onto centre console.

2 - Screw

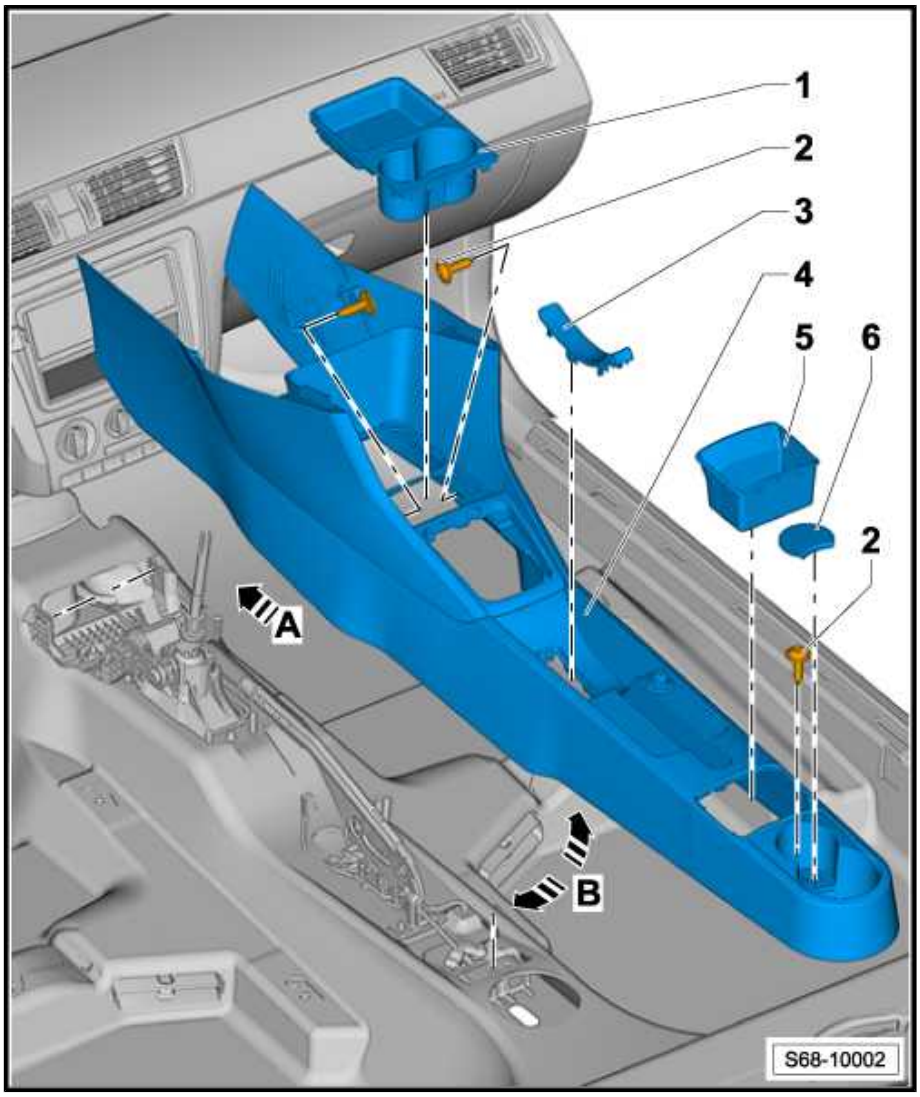
- ❑ Tightening torque - 1.5 Nm.

3 - Cap of handbrake

- ❑ Clipped onto centre console.

4 - Centre console

Removing



- Switch off the ignition and all electrical components.
- Unclip the trim panel for the shift lever ⇒ Gearbox; Rep. gr. 34 .
- Remove armrest (depending upon vehicle equipment) ⇒ "2.5 Removing and installing the armrest", page 206 .
- Remove cap (Pos. 6).
- Remove screws (Pos. 2).
- Remove=ing handle for handbrake lever ⇒ braking systems; Rep. gr. 46 ; Handbrake; summary of handbrake components .
- Apply handbrake fully.
- Unclip the cap on the handbrake (Pos. 3).
- Press console approx. 30 mm in direction of engine - arrow A - and unclip from the holders for the dash panel.
- Swivel out console in -direction of arrow B-.
- Disconnect the plug connection of the cigarette lighter (power socket) ⇒ Electrical System - General notes; Rep. gr. 96 .
- Remove the trim panel from the vehicle.

Installing

- The installation occurs in reverse order.

5 - Storage tray

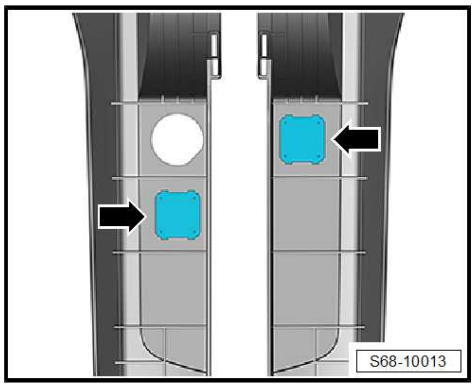
- ❑ Clipped onto centre console.

6 - Cap

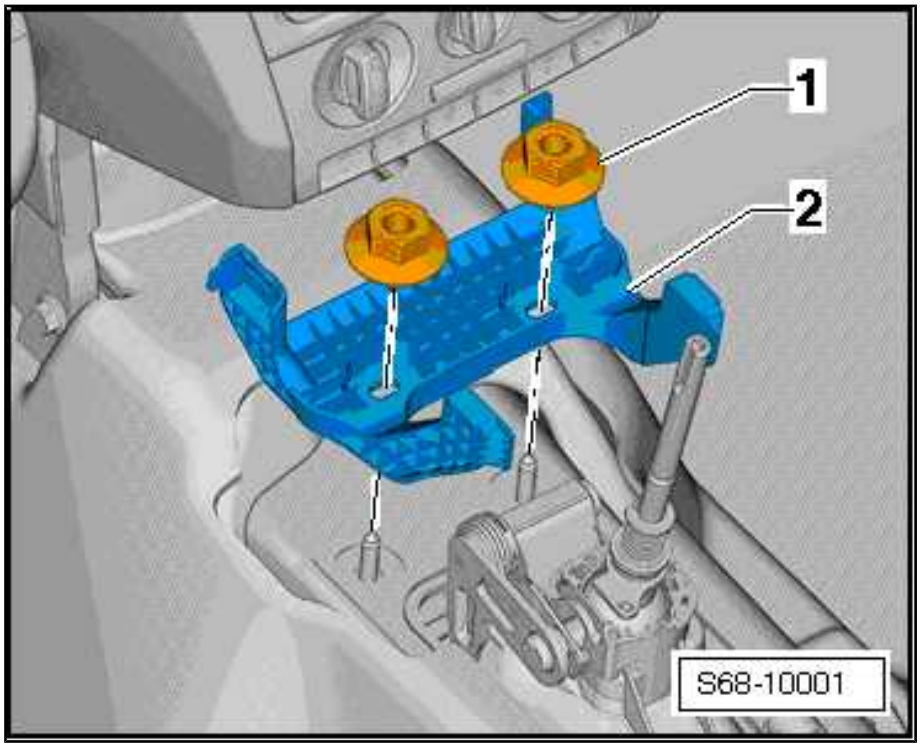
❑ The fixing screw for the centre console is located under the cap.

2.2.3 Replacing the central console

– When replacing the central console you will also need to cut out the openings for the button for tyre pressure inspection and AUX IN socket (depending on the equipment to be installed in the vehicle). The process of cutting out the console is done with standard workshop tools. A pattern is not required. The opening contours are marked as standard on the central console from the reverse side - arrows - .



2.2.4 Removing and installing the bracket of the centre console



– Removing the centre console
⇒ “2.2.2 Removing and installing centre console”, page 203 .
– Release nuts (Pos. 1).
– Remove the bracket (Pos. 2) from the vehicle.

Installing

– The installation occurs in reverse order.

2.3 Summary of components – armrest

1 - Armrest

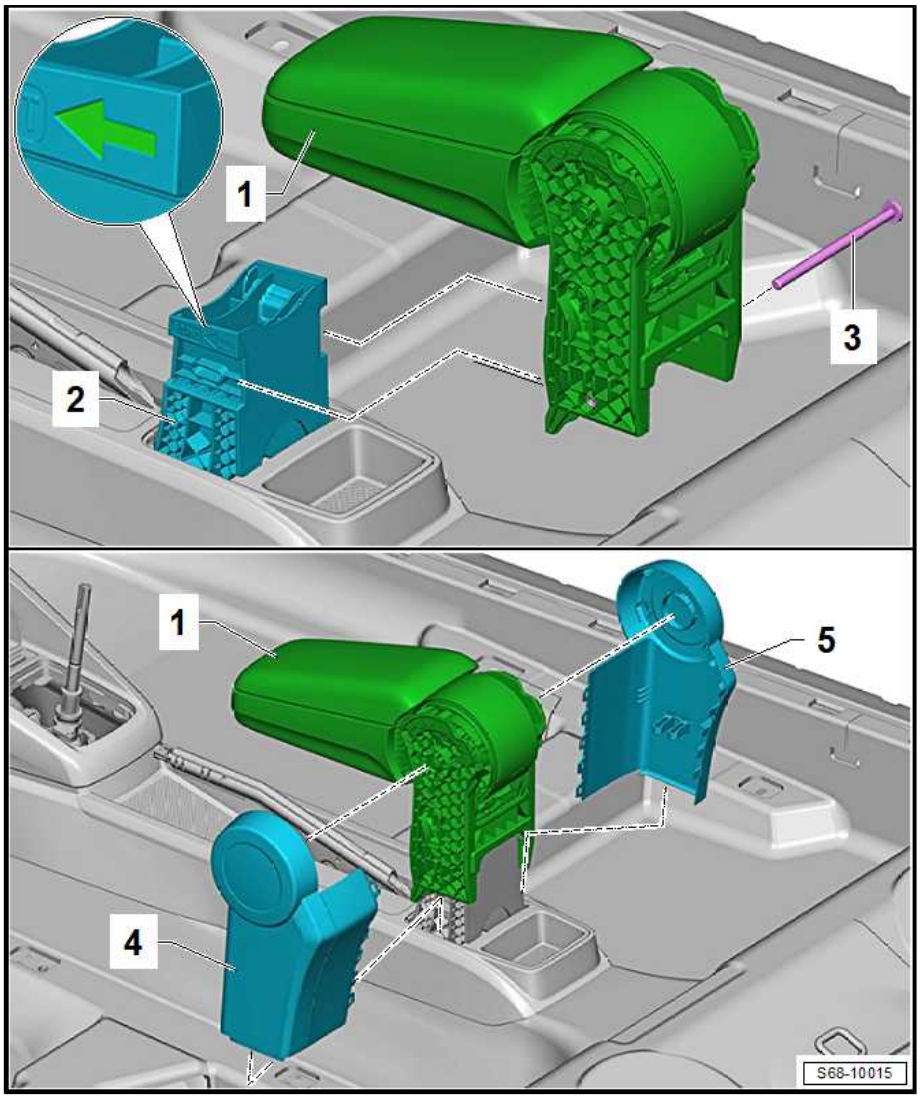
2 - Sustainer

3 - Screw

- ❑ Tightening torque - 5 Nm.

4 - Cover for left armrest pivot

5 - Cover for right armrest pivot



2.4 Removing and installing the sustainer (vehicles with armrest)

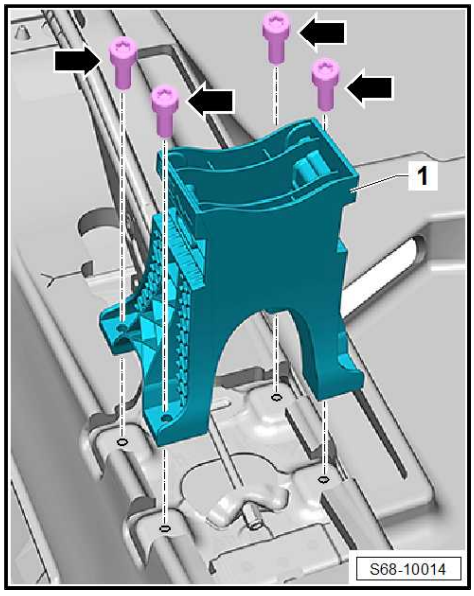
Removing

– Removing the centre console
⇒ “2.2.2 Removing and installing centre console”, page 203 .

– Remove armrest
⇒ “2.5 Removing and installing the armrest”, page 206 .

– Release screws -arrows- (4 Nm).

– Take off sustainer -1-.



Installing

– The installation occurs in reverse order.

2.5 Removing and installing the armrest

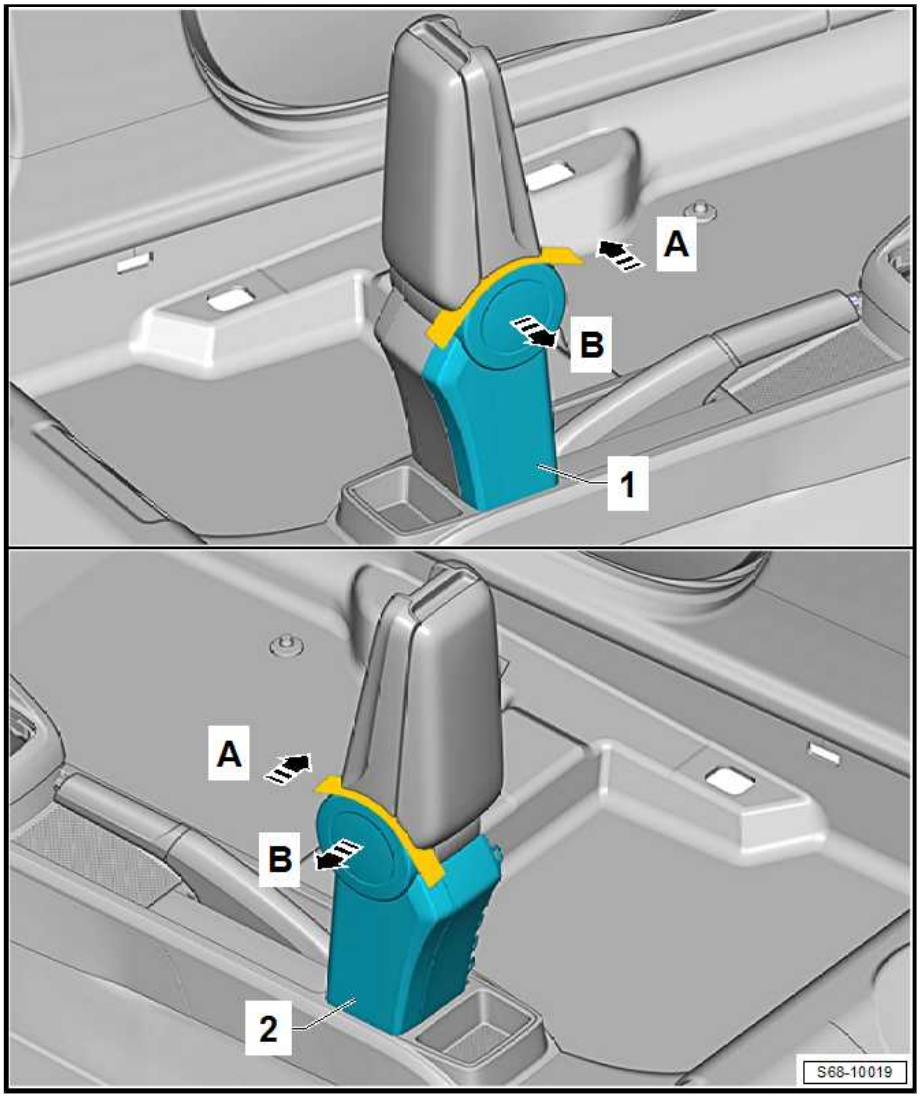
Removing side covers of the armrest

– Pivot armrest to maximum position of 110°.

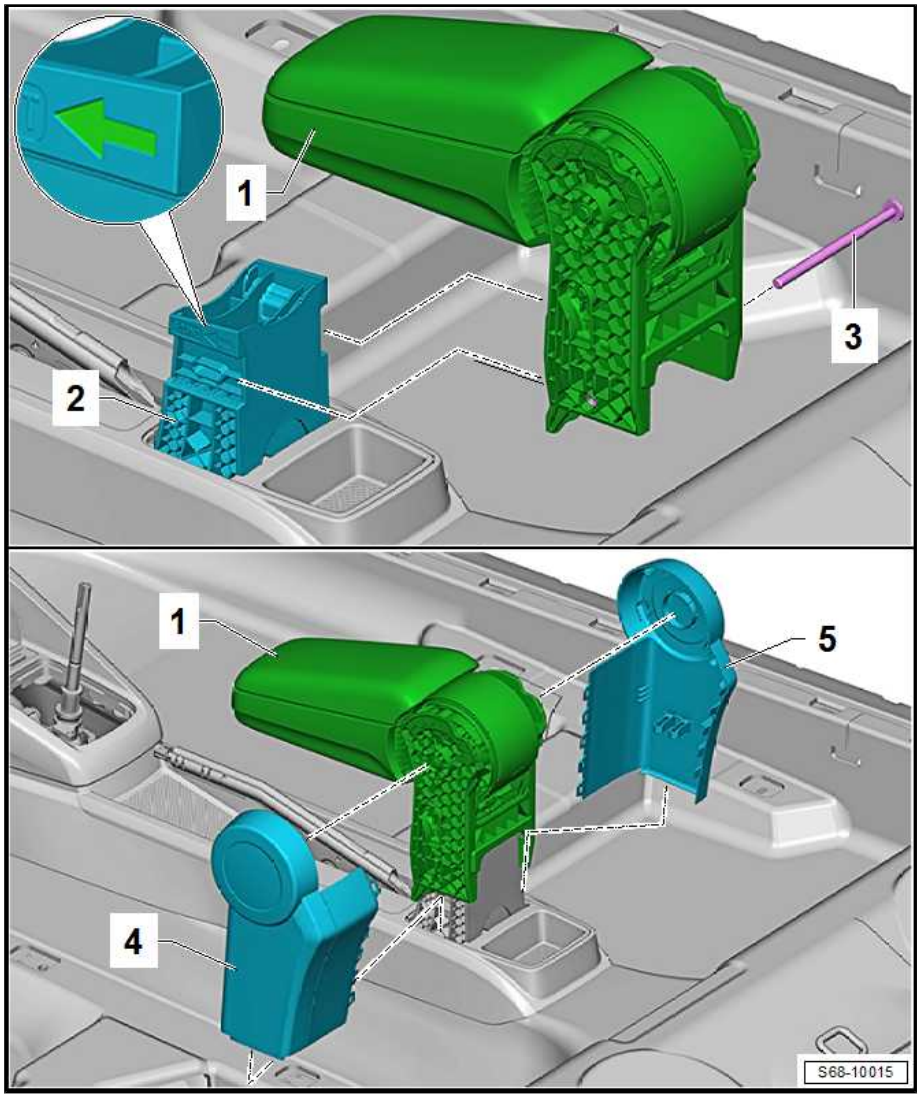
– Insert plastic tape in direction of arrow -A- into the gap between armrest and cover.

– Remove (unclip) right cover (Pos. 1) in direction of arrow -B-.

– The left cover (Pos. 2) is removed in the same way.



Removing and installing front armrest



Removing

– Unclip covers for armrest pivot -4 and 5-.

– Remove screw -3- (5 Nm) and slide out the armrest -1- back from the sustainer -2-.

Installing

– The installation occurs in reverse order.

2.6 Removing and installing the sun visor

Summary of components - sun visor

1 - Mounting bracket for right sun visor

Removing

- Unclip sun visor (Pos. 3) from mounting bracket.
- Push out the cap (Pos. 2) thereby unlocking the expansion clips of the mounting bracket.
- Swivel the mounting bracket out of the roof reinforcement.

Installing

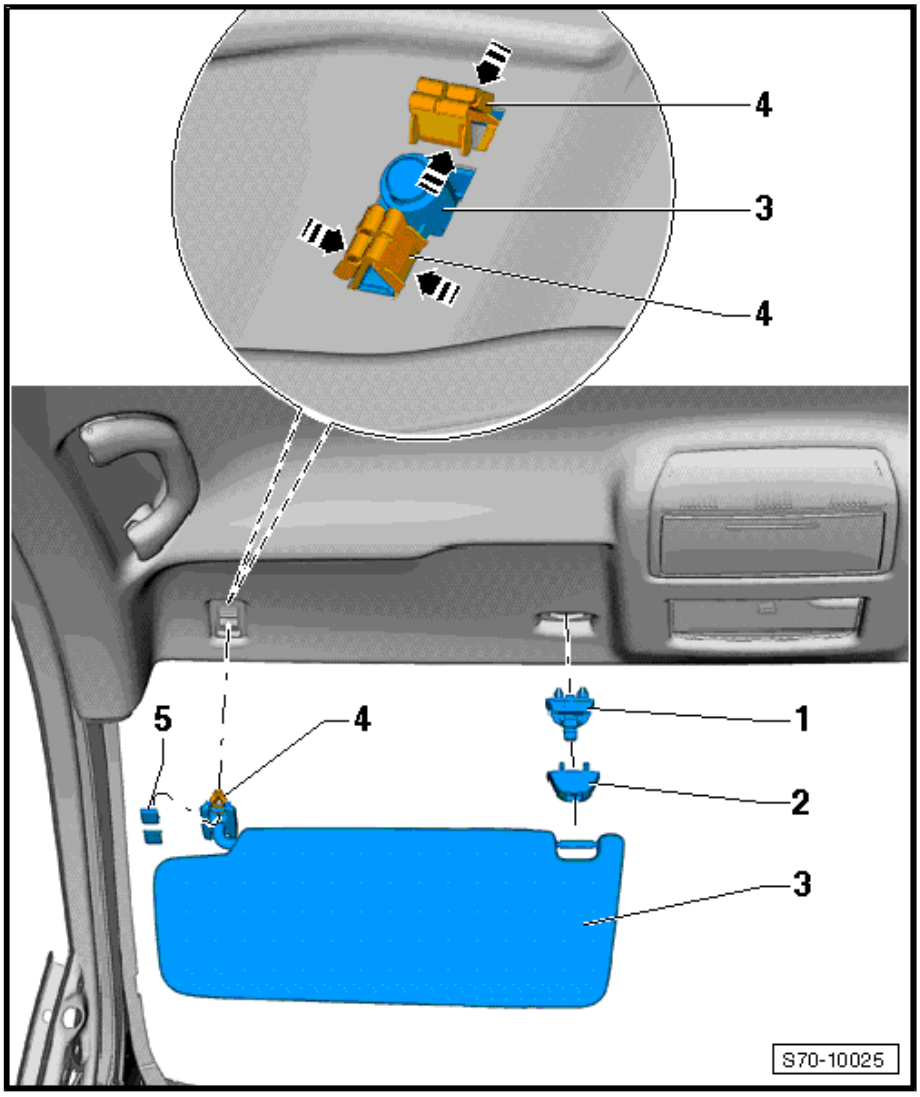
- The installation occurs in reverse order.

2 - Disassemble cap for mounting bracket for sun visor

3 - Sun visor

4 - Securing clip for mounting bracket for sun visor left

5 - Caps for mounting bracket for sun visor left



Remove left holder

- Unclip caps (Pos. 5).
- Unlock the securing clamps for example by using a pair of pliers - VAS 6427- (Pos. 4). The clamps are turned by 90°.
- Push the holder out of the roof reinforcement and remove together with the visor.

Installing

- Clip the holder into the opening of the roof reinforcement.
- Make sure that the clamps are properly secured.
- Clip in caps (Pos. 5).

Note

Before the installation, check all the fixing elements for damage, if necessary replace.

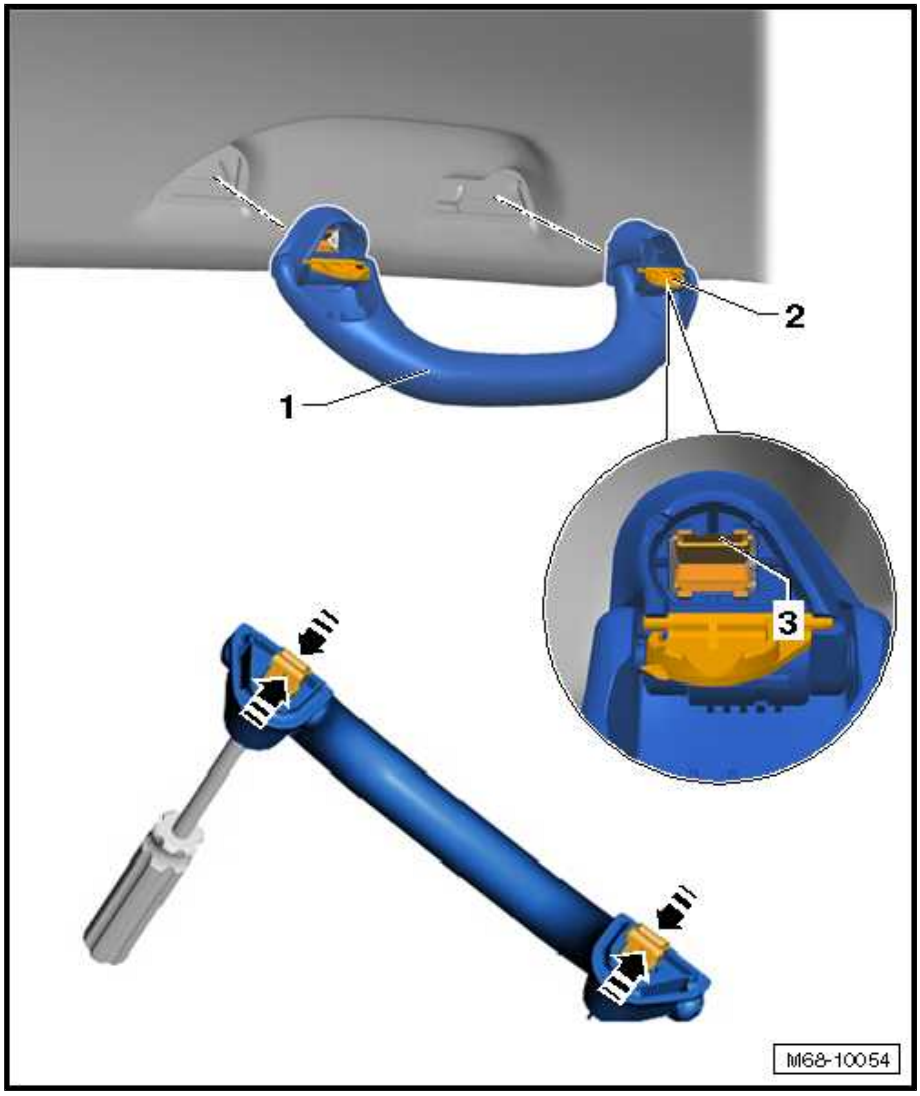
3 Recessed handles

3.1 Removing and installing the recessed handles of the roof

Removing

– Fold down the recessed handle - 1 - and swivel out the cap - 2 -.

– Unlock the clips - 3 - using e.g. the release tool -T10517- or -T10518- or -T10518A- and detach the recessed handle by pulling from the supports.- Arrows- .



Installing

– Press recessed handle - 1 - with the supports into the bores in the bracket for the recessed handle.

– Press in the spreader clips - 3 - until they click audibly into place.

– Press in the cover caps - 2 -.

Note

- *Ensure that the spreader clips -3- are fully pressed in.*
- *The spreader clips -3- spread the clips of the recessed handle -arrows- apart when pressing in.*

69 – Passenger protection

1 Seat belts

1.1 Removing and installing the front seat belts

Removing

WARNING

- *Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)*
  ⇒ "3.3 Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)", page 225 .
- *Observe the special instructions for the belt tensioner*
  ⇒ "2.2 Special instructions for the belt tensioner", page 223 .

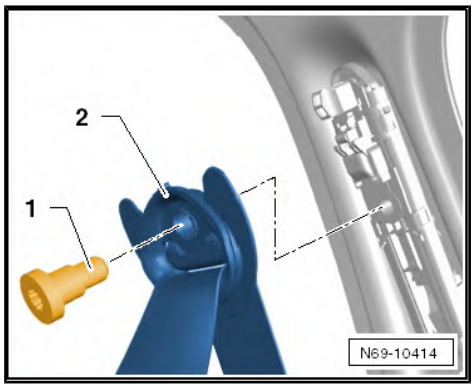
– Disconnect the vehicle battery ⇒ Electrical System; Rep. gr. 27 ; disconnect and connect the battery .

– Remove the trim panels of the B pillar
⇒ "3.4 Removing and installing top B-pillar trim panel", page 266 .

– Unclip the door sill panel towards the top out of the front side rail.

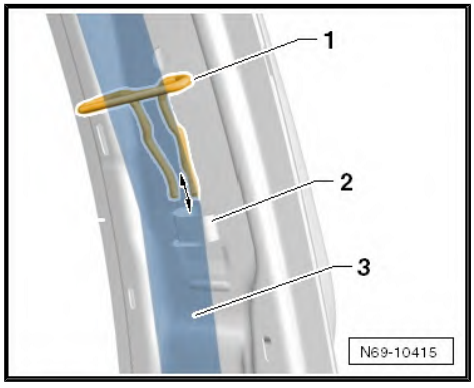
– Unclip the door sill panel until the screw of the automatic belt retractor can be reached.

– Unscrew the screw -1- (40 Nm) and release the belt deflection fitting -2- from the seat belt height adjustment.



– Pull the seat belt deflection -1- out of the tab -2-.

– Guide the seat belt -3- out of the seat belt deflection -1-.



WARNING

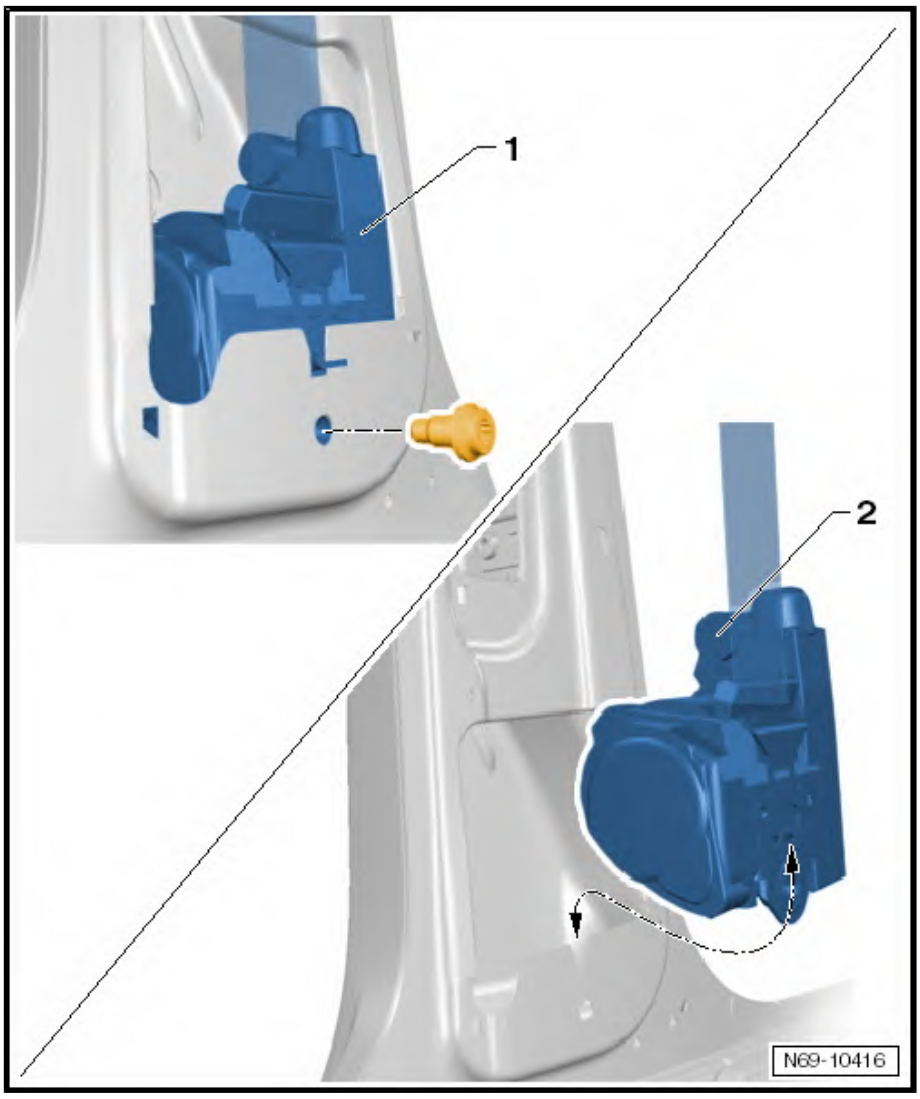
When installing, the seat belt deflection -1- must lock audibly into the tab -2-!

WARNING

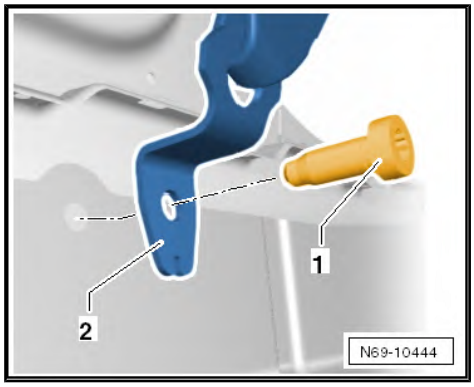
When electrostatic discharges occur, there is a risk of the belt tensioners being activated unintentionally. Therefore, the mechanic must discharge himself electrostatically before separating the ignition and earth lead. This occurs, for example, by briefly touching the body or the door closing mechanism.

– Disconnect the plug connection from the automatic belt retractor.

– Release the screw (40 Nm) and remove the automatic belt retractor -2- from the B pillar.



– Unscrew screw -1- (40 Nm) and loosen the belt end fitting -2- from the body.



Installing

The installation occurs in reverse order.

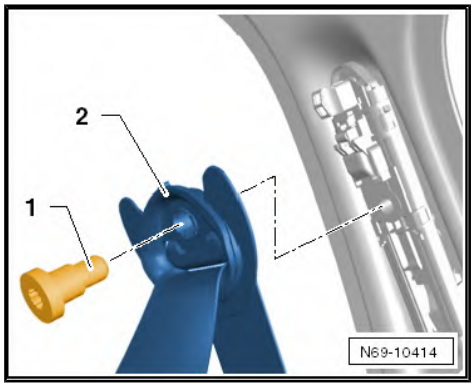
– Connect the vehicle battery ⇒ Electrical System; Rep. gr. 27 ; disconnect and connect the battery .

1.2 Removing and installing the front seat belt height adjuster

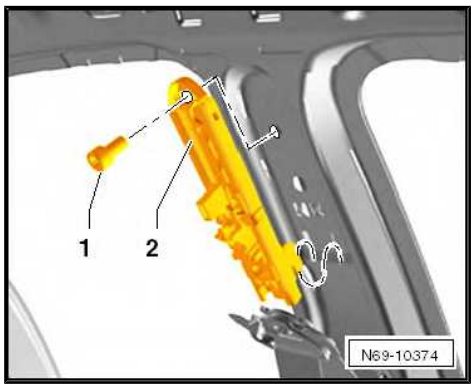
Removing

– Slacken the upper trim panel of the B pillars from the supports ⇒ “3.4 Removing and installing top B-pillar trim panel”, page 266 .

– Unscrew the screw -1- (40 Nm) and release the belt deflection fitting -2- from the seat belt height adjustment.



– Screw out screw -1- (20 Nm) and remove the seat belt height adjuster -2- from the supports in the support panel.



Installing

– The installation occurs in reverse order.

1.3 Removing and installing the front seat belt buckle

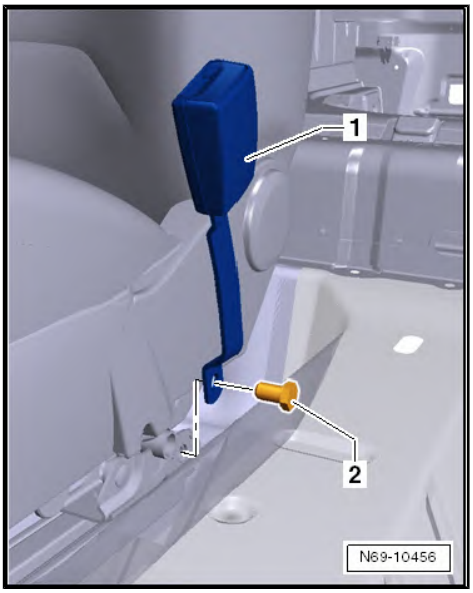
Removing

Note

On vehicles with automatic seatbelt detection system, the wiring harness must be separated additionally at the connector station and it must be released at the seat rack.

– Remove front seat ⇒ “1.1 Removing and installing front seat”, page 286 .

– Remove screw -2- (40 Nm).
– Remove seat belt buckle -1-.



Note

- *The screw -2- is microencapsulated and must be replaced each time it has been released.*
- *Before installing the new screw, the thread of the corresponding nut must be cleaned.*

Installing

– The installation occurs in reverse order.

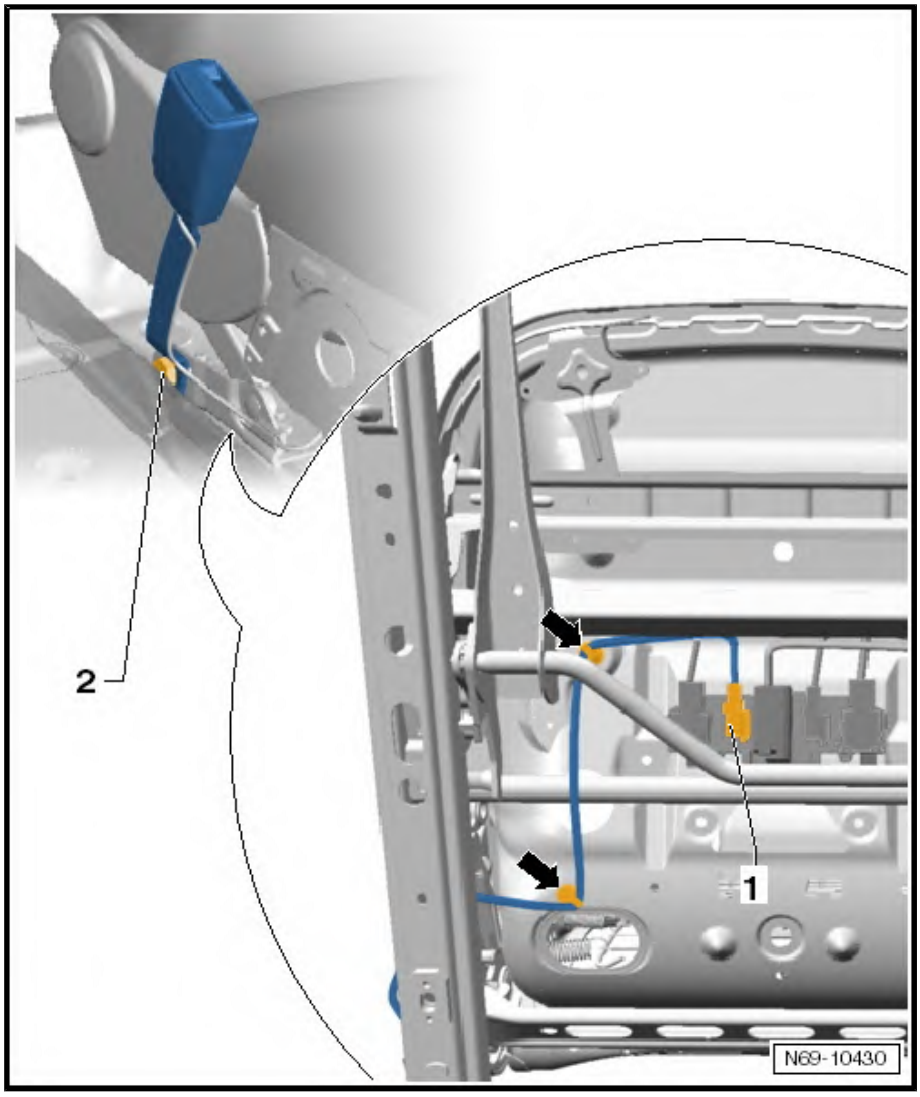
1.4 Removing and installing the front seat belt buckle

Removing

– Remove front seat
⇒ “1.1 Removing and installing front seat”, page 286 .
– Remove the plug -1- from the connector station below the seat.
– Unclip the wiring loom attachments -arrows- from the seat rack.
– Remove screw -2- (40 Nm).

Note

- *The screw is microencapsulated and must be replaced each time it has been released.*
- *Before installing the new screw, the thread of the corresponding nut must be cleaned.*



Note

- *The screw -2- is microencapsulated and must be replaced each time it has been released.*
- *Before installing the new screw, the thread of the corresponding nut must be cleaned.*

Installing

– The installation occurs in reverse order.

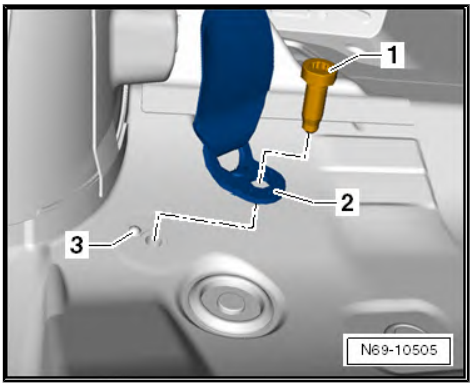
1.5 Removing and installing the outer rear seat belts

Removing

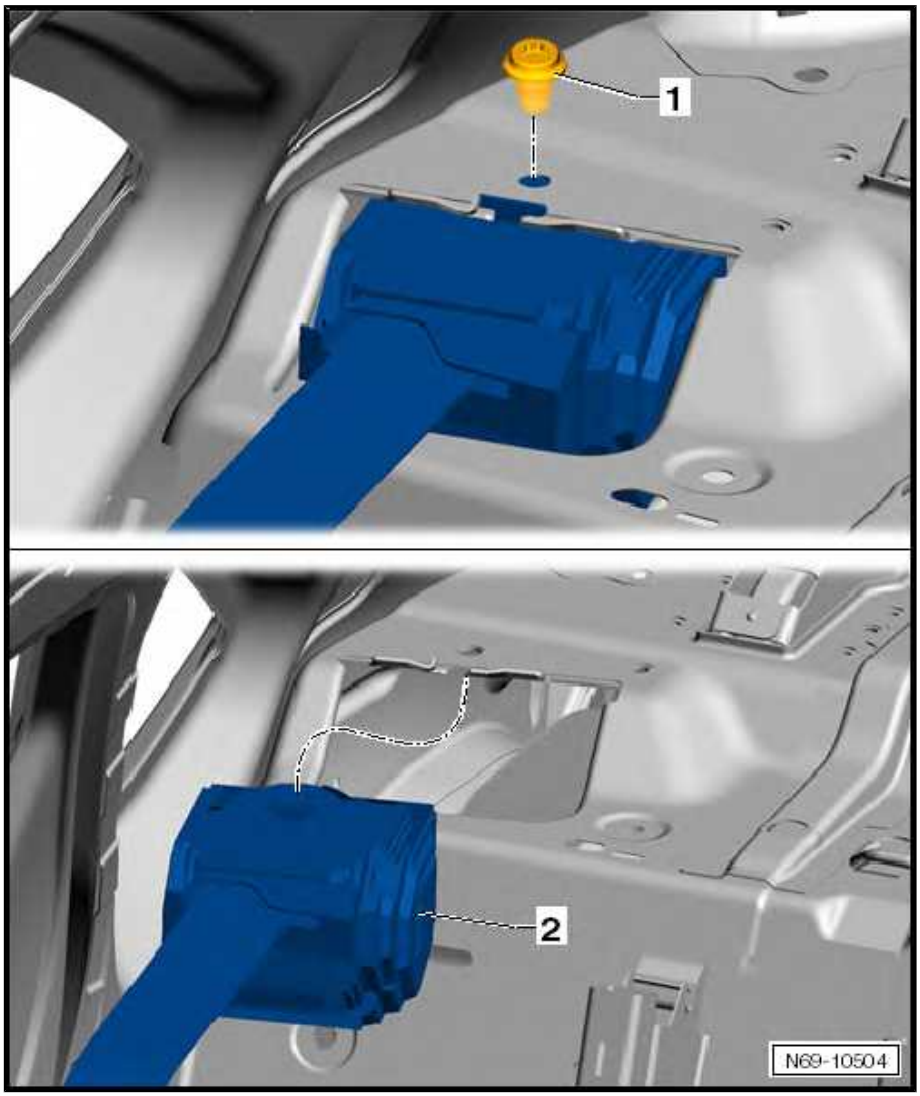
– Remove the seat bench
⇒ “2.1 Removing and installing the rear seat bench”, page 295 .

– Remove the backrest depending on the vehicle equipment
⇒ “3 Removing and installing backrests”, page 298 .

– Remove top part of side luggage compartment trim panel ⇒ “5.2 Removing and installing top part of side luggage compartment trim panel”, page 278 .
– Remove screw -1- (40 Nm).
– Remove the end fitting - 2 - from the mounting boss - 3 -.



– Remove screw -1- (40 Nm).
– Remove the automatic belt retractor -2- from the top part of the rear panel.



Installing

– The installation occurs in reverse order.

1.6 Removing and installing the rear middle seat belt

Removing

– Remove the seat bench
⇒ “2.1 Removing and installing the rear seat bench”, page 295 .

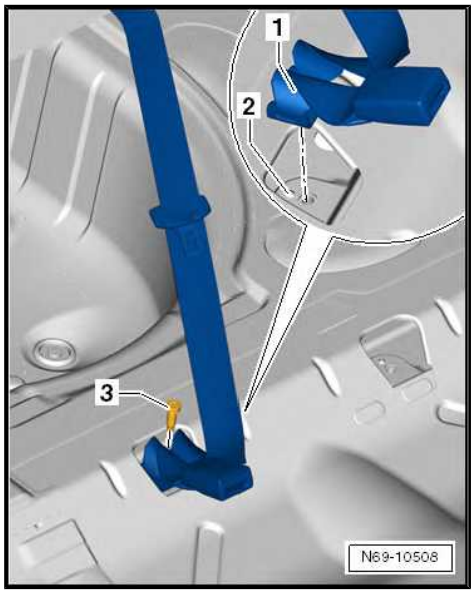
– Remove screw -3- (40 Nm).

– Remove the belt buckle with the rear middle seat belt -1- from the mounting boss -2-.

– Removing backrest
⇒ “3 Removing and installing backrests”, page 298 .

– Remove cover from backrest
⇒ “2.3 Removing and installing entire cover and backrest upholstery”, page 308 .

– Release nut and remove seat belt.



Installing

– The installation occurs in reverse order.

1.7 Removing and installing the rear seat belt buckle with lap belt

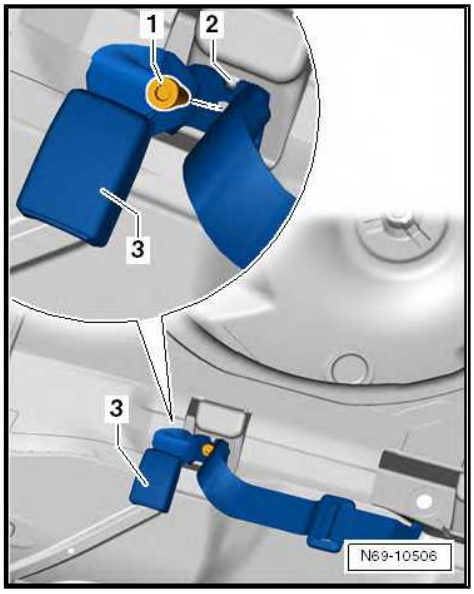
Removing

– Remove the seat bench
⇒ “2.1 Removing and installing the rear seat bench”, page 295 .

– Removing backrest
⇒ “3 Removing and installing backrests”, page 298 .

– Remove screw -1- (40 Nm).

– Remove the belt buckle with the lap belt -3- from the mounting boss -2-.



Installing

– The installation occurs in reverse order.

1.8 Removing and installing the rear double belt buckle

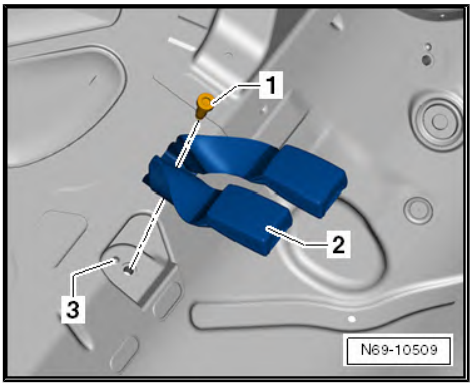
Removing

– Remove the seat bench
⇒ “2.1 Removing and installing the rear seat bench”, page 295 .

– Removing backrest
⇒ “3 Removing and installing backrests”, page 298 .

– Remove screw -1- (40 Nm).

– Remove the double belt buckle -2- from the mounting boss -3-.



Installing

– The installation occurs in reverse order.

2 Inspect seat belts

WARNING

The seat belt system must be inspected systematically after every accident! If one of the inspection points reveals any damage inform the customer that the seat belts must be replaced.

Test sequence

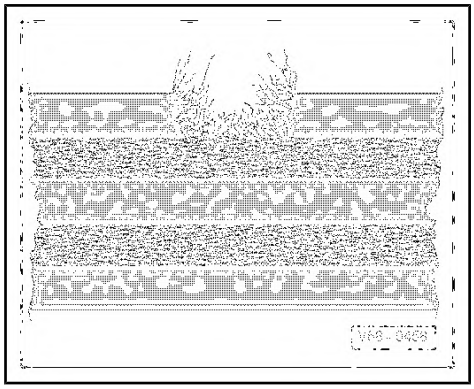
- Check seat belt.
- Check automatic belt retractor - locking effect.
- Seat belt buckle - visual inspection.
- Seat belt buckle - functional check.
- Check deflection fittings and buckle latch.
- Check fixing parts and fixing points.

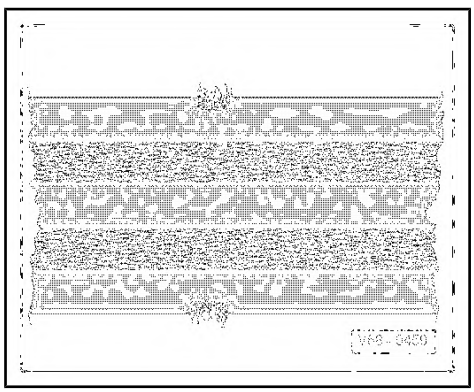
2.1 Test sequence

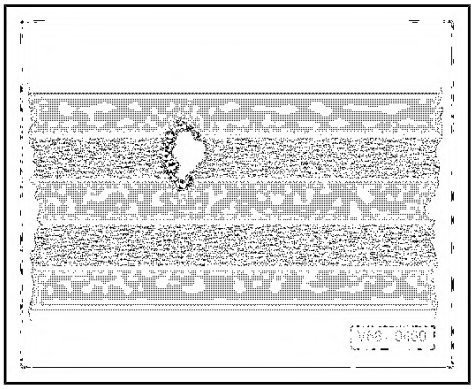
2.1.1 Checking the seat belt

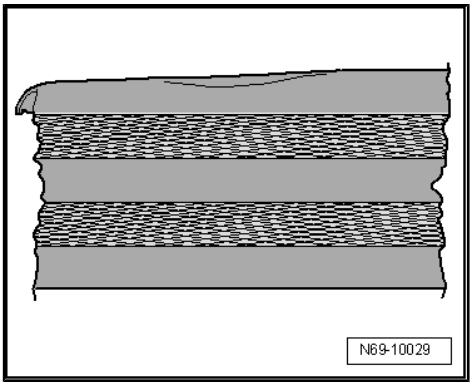
– Completely unreel the seat belt from the automatic belt retractor or from the lap belt adjusting strip.

– Check the seat belt for dirt, if necessary wash it with mild soapy water ⇒ Owner's manual .









- If damage is detected (case 1 and 2) on a vehicle which has been involved in an accident (as shown below) - replace the seat belt together with the belt buckle.
- If damage is detected on a vehicle which has not been involved in an accident, as shown under point 1, 2, 3 and/or 4, it is only necessary to exchange the damaged seat belt.
- 1) - Seat belt cut, torn or chafed.
- 2) - Torn fraying on the edge of the belt.
- 3) - Cigarette burns.
- 4) - Belt edge deformed or warped.

2.1.2 Check automatic belt retractor - locking effect

The automatic belt retractor has 2 locking functions.

♦ The first locking function is activated when the belt is drawn rapidly out of the automatic belt retractor (belt withdrawal acceleration).

Checking

– Draw the seat belt out of the automatic belt retractor with a sudden sharp pull.

- No locking effect - replace seat belt together with buckle.
- First check whether the belt feeds out and retracts smoothly, and whether the position of the inertia reel has changed.
- The second locking function is activated by a change in the vehicle's motion (vehicle-dependent locking function). Thus, the vehicle must be moved on a level surface.

Checking

– Put on seat belt.

– Accelerate to 20 km/h and perform a full brake with the brake pedal.

- If the locking mechanism does not lock the belt when the brakes are applied, replace the seat belt together with the buckle.

WARNING

For safety reasons, carry out this test on a section of road with no traffic so as not to endanger other road users.

2.1.3 Seat belt buckle - visual inspection

– Check belt buckle for fractures and flaking.

• In case of damage, the seat belt and the belt buckle must be replaced.

2.1.4 Seat belt buckle - functional check

Checking seat belt buckle:

– Insert buckle latch in the belt buckle until there is an audible click. Check whether the locking mechanism engages, by tugging forcefully on the seat belt.

• If the buckle latch fails to lock into the buckle even once out of at least five tests, replace the seat belt together with the buckle.

Check buckle release:

– Release seat belt by pressing the seat belt buckle button.

– If the belt is loose, the latch must eject independently from the belt buckle.

• Test at least 5 times. If the buckle latch fails to eject even once, replace the seat belt together with the buckle.

WARNING

Never use lubricants to eliminate noises or to smoothen the operation of the buttons on seat buckles.

2.1.5 Checking deflection fitting and buckle latch

When the belt system is burdened (seat belt attached in an accident) plastic-coated fittings will display fine parallel score marks. (Normal wear and tear due to frequent use is recognisable by smooth, even wear, without scoring.)

– Check the plastic for deformation, flakings and crackings.

• In the event of scoring and/or damage replace seat belt together with buckle.

2.1.6 Checking fixings and fixing points

♦ Buckle tongue deformed (stretched).

♦ Fixing points (seat, pillar, underfloor) warped, or thread damaged.

• If the parts are damaged replace seat belt together with buckle.

• Replace fixing points.

Note

If damage has occurred that is not due to an accident, but is the result, for example, of normal wear and tear, it is only necessary to replace the damaged part.

2.2 Special instructions for the belt tensioner

WARNING

- *The open end of a belt tensioner must never be pointed towards people.*
- *Handle the seat belt tensioner units with great care when removing and installing. A high risk and injury potential exists through rough improper handling of seat belt tensioner units.*
- *When connecting the seat belt tensioner units, all mechanical parts including the parts of the three point seat belt, must be correctly secured. If it is not possible to connect the seat belt tensioner unit because there is not enough space, the seal belt must be fully rolled up before connecting. In this case, there is no increased safety risk if further safety measures are observed and respected. These include mainly disconnecting the battery and the electrostatic discharge of the mechanic before connecting the seat belt tensioner unit.*
- *Depending on the accident, it may be possible that the belt tensioner was ignited, the belt force limiter, however, was NOT ignited. These components are handled in the same way as non-ignited components!*

2.3 Storage, transport and disposal of airbag, belt tensioner and battery separation units (pyrotechnical components)

WARNING

- *The storage is subject to the respective national legislation.*
- *The transport is subject to national and international legislation, in which packaging, marking, labeling, and accompanying documents are regulated in detail.*
- *Non-ignited pyrotechnical components must be discarded in the original packaging in compliance with the applicable disposal procedure according to the national legislation! In case you have any questions, please contact your importer.*
- *Only fully ignited pyrotechnical components may be disposed of as industrial waste.*

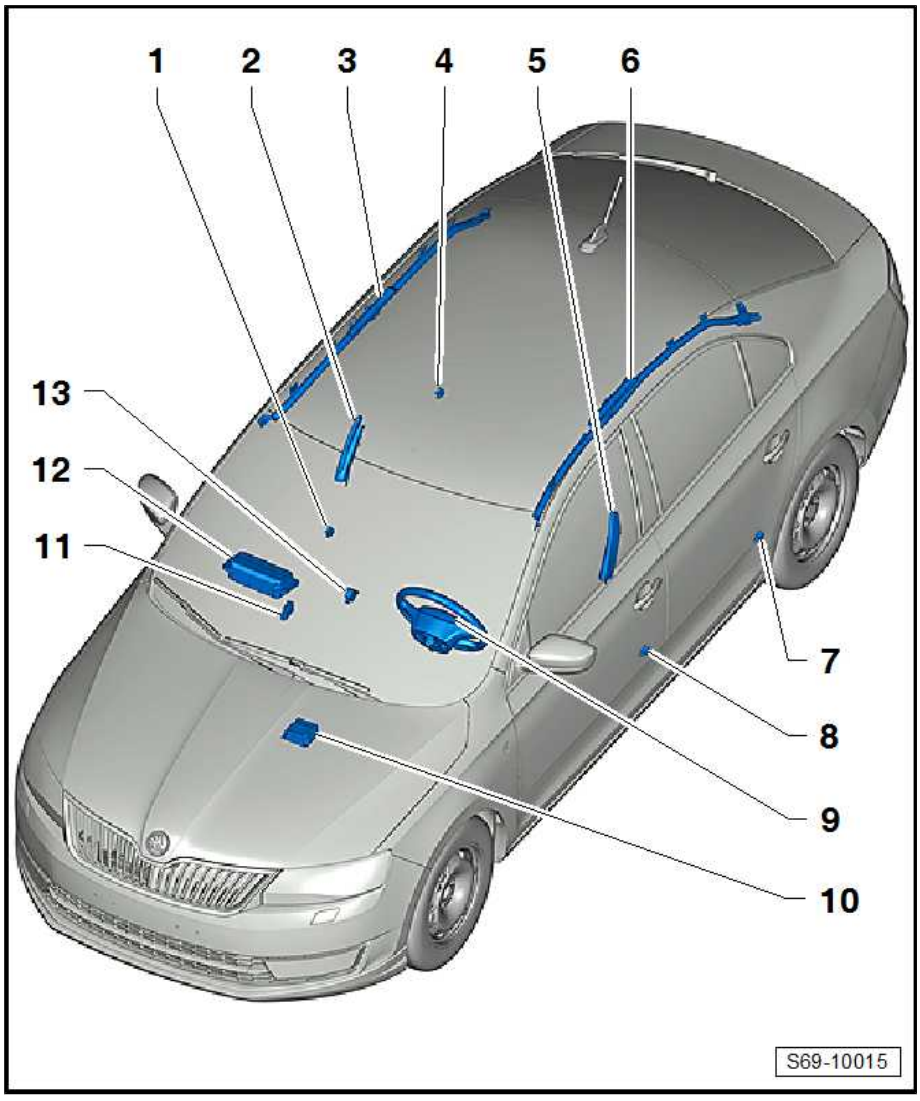
3 Airbag

3.1 Tools

Special tools and workshop equipment required

- Vehicle diagnosis, measurement and information system

3.2 Airbag system - Overview



1 - Pressure sensor for side impact, front passenger's side

2 - Side airbag unit front passenger's side

- ❑ Removing and installing ⇒ “3.15 Removing and installing airbag unit on the passenger side”, page 235 .

3 - Head airbag

- ❑ Removing and installing ⇒ “3.17 Head airbag”, page 239 .

4 - Acceleration sensor for side impact, front passenger's side

5 - Side airbag unit driver's side

- ❑ Removing and installing ⇒ “3.16 Removing and installing side airbag”, page 237 .

6 - Head airbag driver's side

- ❑ Removing and installing ⇒ “3.17.1 Summary of components - head airbag”, page 239 .

7 - Acceleration sensor for side impact, driver's side

8 - Pressure sensor for side impact, driver's side

9 - Front airbag driver's side

- ❑ Removing and installing ⇒ “3.13 Removing and installing driver airbag unit”, page 233 .

10 - Control unit for the airbag system

- ❑ Removing and installing ⇒ “3.7 Removing and installing the airbag control unit ”, page 228 .

11 - Key-operated switch for deactivating the front passenger side front airbag

- ❑ Removing and installing ⇒ “3.11 Removing and installing front passenger airbag key switch”, page 231 .

12 - Front airbag front passenger's side

- ❑ Removing and installing ⇒ “3.15 Removing and installing airbag unit on the passenger side”, page 235 .

13 - Warning light for deactivation of the front airbag on the front passenger side

3.3 Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)

WARNING

- *Inspection, removal and installation and repair work must only be carried out by properly qualified personnel.*
- *Only work described in this Workshop Manual must be carried out. It is absolutely prohibited to disassemble the airbag units.*
- *The fuel contained in pyrotechnical components is burned, which produces gases. Furthermore, certain embodiments contain compressed gas which is used for the gas production.*
- *This compressed gas is stored in a highly pressurised pressure gas tank.*
- *The ignition of pyrotechnical components is carried out by means of electrical/mechanical igniters.*
- *There are no change intervals for the airbag units.*
- *Under no circumstances use a test lamp, voltmeter or ohmmeter for testing.*
- *Pyrotechnical components should only be checked when installed and with a manufacturer-specified vehicle diagnosis, measurement and information system.*
- *When working on pyrotechnical components and on the airbag control unit - J234- , the earth strap of the battery must be disconnected once the ignition is switched on. Subsequently cover the negative terminal.*
- *After disconnecting the battery it is essential to wait 1 minute.*
- *SWITCH ON the ignition before connecting the battery. Nobody should be in the vehicle when the battery is connected. Exception: vehicles with the battery located in the vehicle interior. In this case, you must not be in the range of influence of the airbags and seat belts.*
- *If the vehicle is equipped with the Kessy system, the ignition should only be switched on after connecting the battery using the ⇒ Vehicle diagnostic tester outside the vehicle cockpit (the valid ignition key must be inside the vehicle) for safety reasons. This procedure is part of the test in the targeted fault finding.*
- *Wash your hands after touching the ignited pyrotechnical components of the restraint system.*
- *Pyrotechnical components must not be opened or repaired; always use new parts (risk of injury).*
- *Pyrotechnical components, which are damaged, must not be re-installed.*
- *Defective airbag units of the airbag system which have not been ignited must be returned for disposal to a specialist company or to the importer in accordance with the instructions of PST and environmental protection regulations. The prescribed transport packaging must be used.*

- *Pyrotechnical components, which have fallen on a hard surface, must not be re-installed.*
- *Before handling pyrotechnical components of the restraint system, for example, disconnecting the electrical plug connection, the mechanic must discharge himself electrostatically. The electrostatic discharge is achieved by touching grounded metal parts, for example, by briefly touching the door closing mechanism.*
- *Pyrotechnical components should be installed immediately after being removed from the transport container.*
- *If work is interrupted, place the pyrotechnical components back in the transport container.*
- *It is not permitted to leave the pyrotechnical component unattended.*
- *Pyrotechnical components should not be treated with grease, cleaning agents or similar products.*
- *Pyrotechnical components should not be exposed to temperatures above 100 °C, not even for short periods.*

3.4 Special instructions for driver and front passenger airbag

WARNING

- *Driver and front passenger airbag units in an unmounted condition are to be deposited with the impact absorber towards the top.*

3.5 Storage, transport and disposal of airbag, belt tensioner and battery separation units (pyrotechnical components)

WARNING

- *The storage is subject to the respective national legislation.*
- *The transport is subject to national and international legislation, in which packaging, marking, labeling, and accompanying documents are regulated in detail.*
- *Non-ignited pyrotechnical components must be discarded in the original packaging in compliance with the applicable disposal procedure according to the national legislation! In case you have any questions, please contact your importer.*
- *Only fully ignited pyrotechnical components may be disposed of as industrial waste.*

3.6 Replacing parts of the airbag system

Accident with deployment of airbag

Note

"Compulsory registration before repair" Note regarding deployment of airbag and non-deployment of airbag in the ⇒ Technical Service Handbook .

Elsa ⇒

Technical Service Handbook

Technical product information ⇒

Body/equipment ⇒

Operation ⇒

Occupant protection ⇒

Airbag fire accident (safety relevant inquiry-registration documents) ⇒

Systems

The following parts must, in principle, be replaced by new original parts only:

- Central control unit for airbag system, VW 10 [1].
- Airbag unit on the driver's side [2].
- Airbag unit on the front passenger's side [2].
- Side airbag unit on the driver's side [2].
- Side airbag unit on the front passenger's side [2].
- Seat covering [3].
- Head airbag driver's side [2].
- Head airbag front passenger's side[2].
- Top trim panel of A pillar [4].
- Top trim panel of B pillar [4].
- Top trim panel of C pillar [4].
- Headlining [4].
- Restoring ring with slip ring [5].
- Driver seat belt tensioner with seat belt [2].
- Front passenger seat belt tensioner with seat belt [2].
- Seat belt tensioners with seat belts for the rear seats [2].

[1] If the front and side airbag unit or head airbag unit and seat belt tensioner have ignited, the control unit may be used again - up to three times.

[2] In the event of ignition.

[3] In the event of ignition of the side airbag unit.

[4] In the event of ignition of the head airbag unit.

[5] In the event of ignition of the driver airbag unit.

Replace all damaged parts if necessary (visual inspection) with new original parts.

After the control unit and other damaged parts have been replaced the control unit must be encoded again.

Accident without deployment of airbag

- If the airbag control indicator (K 75) is displaying no errors and no airbag system parts are damaged, it is not necessary to replace airbag components. Seat belts in particular must be examined.

Registering parts of the airbag system

If a part of the airbag system is to be replaced using original parts the self-adhesive labels with the number should be removed, placed on the registration card part number 000 010 100 A and sent in for registration to the customer service network (domestic) or the importer (in the case of other countries):

- Central control unit for the airbag system.
- Airbag unit on the driver's side.
- Airbag unit on the front passenger's side.
- Side air bag unit, driver's side, with seat covering.
- Side air bag unit, front passenger's side, with seat covering.
- Acceleration sensor for side impact on the driver's side.
- Acceleration sensor for side impact on the front passenger's side.
- Pressure sensor for side impact on the driver's side.
- Pressure sensor for side impact on the front passenger's side.
- Acceleration sensor for front collision at the lock carrier in the engine compartment.
- The head airbag unit on the driver's side.
- The head airbag unit on the front passenger's side.
- Moulded headliner for head airbag.

3.7 Removing and installing the airbag control unit

WARNING

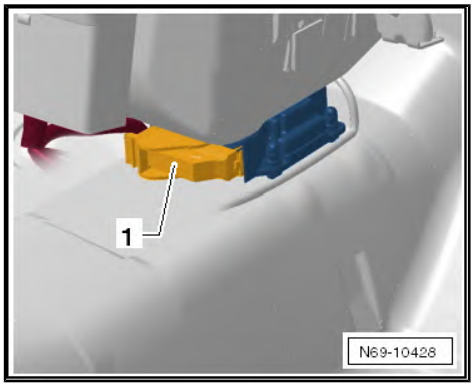
When working on the airbag control unit , observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components).

Removing

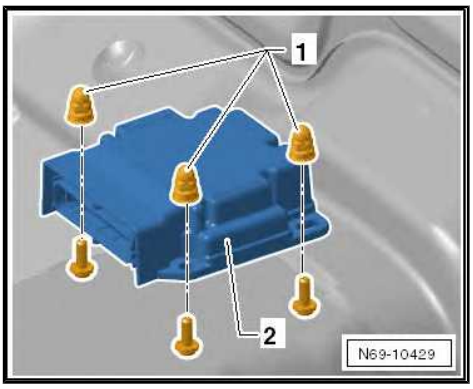
– Removing the centre console ⇒ “2.2 Centre console”, page 201 .

– Disconnect the vehicle battery ⇒ Electrical System; Rep. gr. 27 ; disconnect and connect the battery .

– Unlock the locking mechanism from the plug -1- starting from the footwell on the front passenger side.
– Disconnect plug -1- from control unit.



– Release nuts -1- (9 Nm).



Note

To provide a better overview, the adjoining components are only partially shown in the illustration.

– Take the control unit -2- out of the vehicle.

Installing

– The installation occurs in reverse order.
– Switch on ignition.

WARNING

Make sure no person is present in the vehicle.

– Connect the vehicle battery ⇒ Electrical System; Rep. gr. 27 ; disconnect and connect the battery .
– If the control unit has been replaced, it must be coded again ⇒ “3.8 After replacement, configure the control unit”, page 229 .

3.8 After replacement, configure the control unit

Special tools and workshop equipment required

♦ Vehicle diagnosis, measurement and information system - VAS- with corresponding diagnostic cable ⇒ Vehicle diagnostic tester.
♦ Diagnostic cable .

After replacing the control unit for the airbag and carrying out the automatic test sequence using the ODIS program in the tab “Test plan”, select the suggested test “Code control unit for airbag” (follow the in-test instructions) or select the following procedure:

– In the “ Test plan ” tab, press “ Select self-test ”.
– Select “Body”.
– Select “Assembly work on the body”.
– Select “01 - Self-diagnosable systems”.
– “Select Airbag UDS”.
– Select “function- airbag”.

– Select “Code control unit for airbag”.

3.9 Installing and removing sensor for side impact on the B-pillar

WARNING

Safety regulations should be observed during handling ⇒ “3.3 Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)”, page 225 .

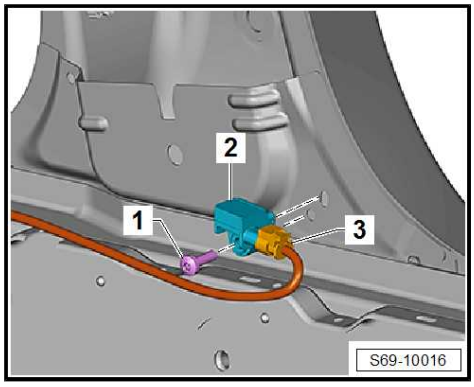
Removing

– Disconnect battery earth strap ⇒ Electrical System; Rep. gr. 27 .

– Remove bottom trim panel of B pillar ⇒ “3.5 Removing and installing bottom B-pillar trim panel”, page 267 .

– Unplug connector -3-.

– Remove the screw - 1 - (9 Nm) and remove the sensor - 2 -.



Installing

– The installation occurs in reverse order.

WARNING

Pay attention to the sequence when connecting the battery ⇒ Electrical System; Rep. gr. 27 .

3.10 Installing and removing sensor for side impact on the C-pillar

WARNING

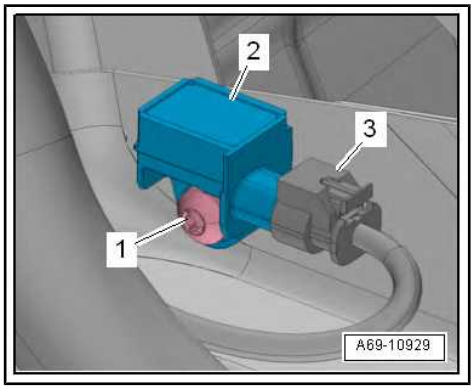
Safety regulations should be observed during handling ⇒ “3.3 Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)”, page 225 .

Removing

– Disconnect battery earth strap ⇒ Electrical System; Rep. gr. 27 .

– Remove wheel house trim panel ⇒ “3.8.2 Removing and installing wheel house trim panel”, page 272 .

– Unplug connector -3-.
– Remove the screw - 1 - (9 Nm) and remove the sensor - 2 -.



Installing

– The installation occurs in reverse order.

> **WARNING**
>
> *Pay attention to the sequence when connecting the battery ⇒ Electrical System; Rep. gr. 27 .*

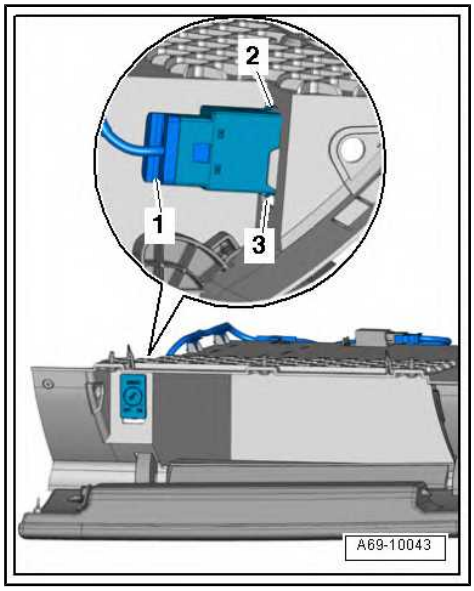
3.11 Removing and installing front passenger airbag key switch

> **WARNING**
>
> *Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)*
> *⇒ "3.3 Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)", page 225 .*
>
> *The switching off and on is undertaken only when the ignition is switched off.*

Removing

– Disconnect battery earth strap ⇒ Electrical System; Rep. gr. 27 .
– Remove the glove compartment on front passenger's side ⇒ "1.2 Removing and installing the glove compartment", page 249 .
– Disconnect the plug connection of the front passenger airbag key switch.

– Release catches (Pos. 2 and 3) and unscrew key switch for front passenger's airbag (Pos. 1) out of the front passenger's side glovebox.



Installing

– Clip the key switch into glovebox on the front passenger side.

– Connect the plug connection of the front passenger airbag key switch.

– Install the glove compartment on the front passenger side ⇒ “1.2 Removing and installing the glove compartment”, page 249 .

– Connect earth strap of battery ⇒ Electrical System; Rep. gr. 27 .

WARNING

Nobody should be in the vehicle when the battery is being connected.

Pay attention to the sequence when connecting the battery ⇒ Electrical System; Rep. gr. 27 .

3.12 Summary of components of steering wheel

1 - Steering wheel

Removing

- Remove driver's airbag unit
  ⇒ Item 3 (page 233) .
- Position the steering wheel to centre position (wheels in straightahead position).
- Unscrew screw -2-.
- Mark the opposite position of the steering wheel and the shaft -4- with a line, as long as this position is not factory-marked.
- Remove the steering wheel from the steering column.

Installing

- The installation occurs in reverse order.

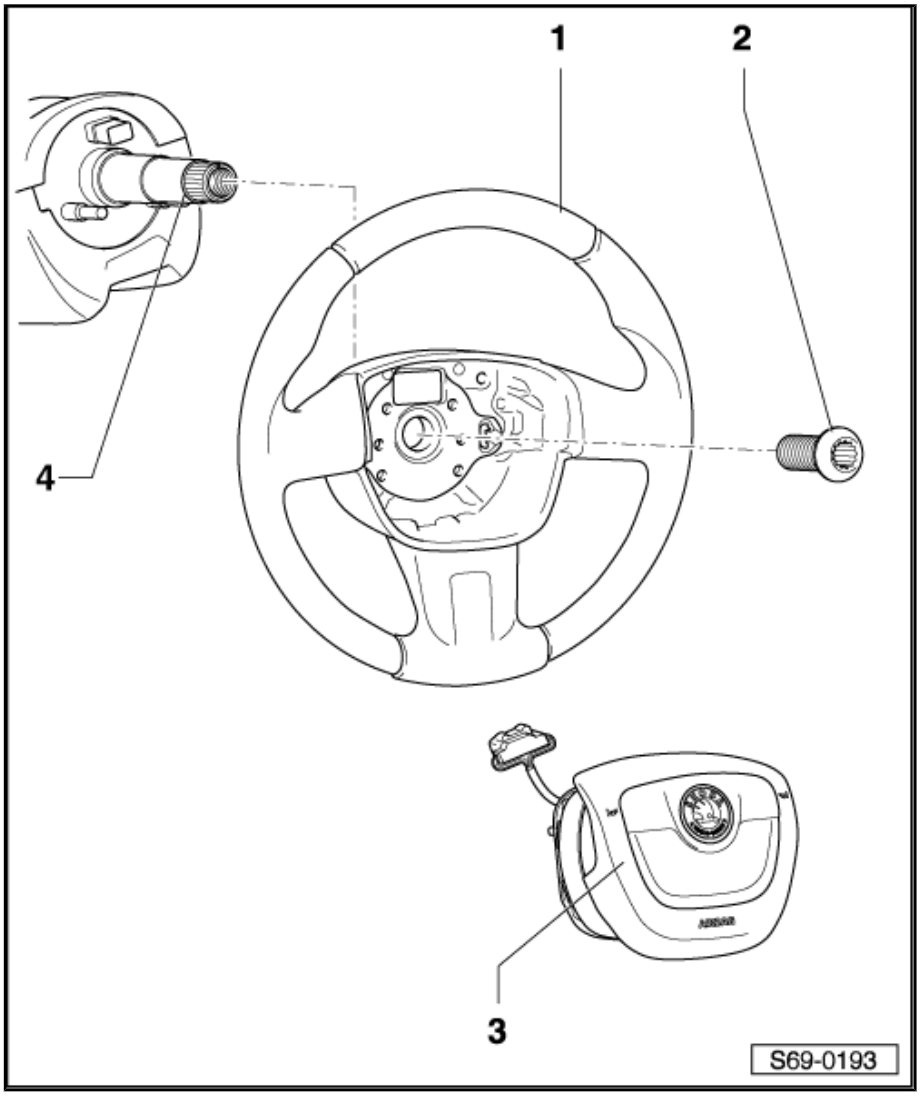
2 - 30 Nm + 90°.

- Can be used up to five times, then replace.
- Mark with a dot after each mounting.

3 - Airbag unit

- Removing and installing
  ⇒ “3.13 Removing and installing driver airbag unit”, page 233 .

4 - Steering wheel shaft



3.13 Removing and installing driver airbag unit

WARNING

Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)
⇒ “3.3 Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)”, page 225 .

Observe the special instructions for driver and front passenger airbag
⇒ “3.4 Special instructions for driver and front passenger airbag”, page 226 .

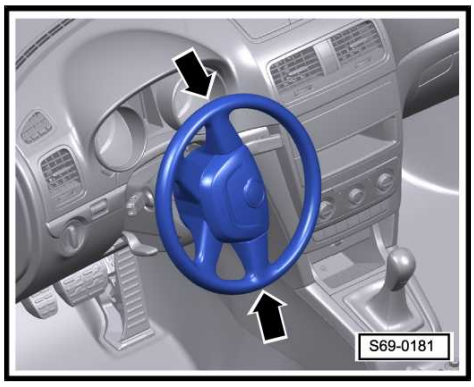
Removing

– Disconnect battery earth strap ⇒ Electrical System; Rep. gr. 27 .

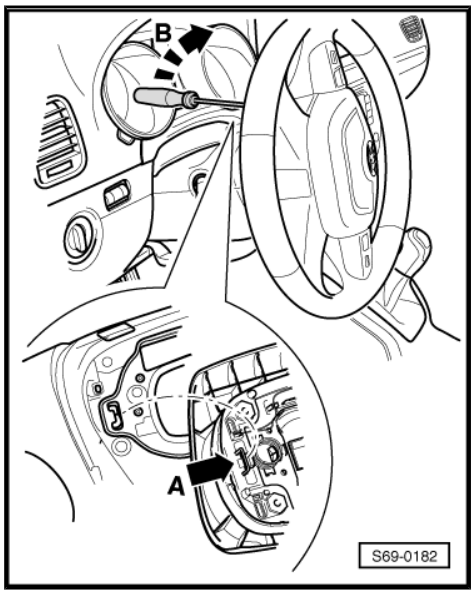
– Put steering wheel in the lowest position.

– Pull out steering wheel fully up to the limit stop.

– Turn steering wheel until one of the holes -arrows- is located at the top.



– Lever off the spring -arrow A- in -the direction of arrow B- using a screwdriver (max. total length of the screwdriver approx. 170 mm, width approx. 5 mm).



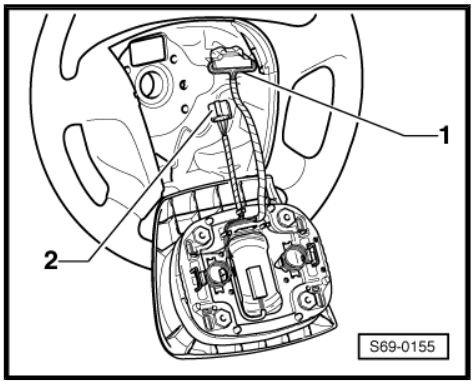
Note

When unhooking the spring, push away airbag unit from steering wheel.

– Repeat process for the second spring.

– Carefully remove airbag unit from the steering wheel and fold back.

– Disconnect plug connection -1- and if necessary -2- (only for vehicles with multi-function steering wheel).
– Lay aside the airbag unit in such a way that the impact absorber points upwards.



Installing

– The installation occurs in reverse order.

WARNING

Nobody should be in the vehicle when the battery is being connected.

Pay attention to the sequence when connecting the battery ⇒ Electrical System; Rep. gr. 27 .

Note

If the airbag control indicator - K75 - indicates a fault after assembly, the event memory must be queried ⇒ Vehicle diagnostic tester.

3.14 Removing and installing restoring ring with slip ring

– Removing and installing ⇒ Electrical System; Rep. gr. 94 ; Steering column combination switch; removing and installing restoring ring with slip ring in the steering column combination switch .

3.15 Removing and installing airbag unit on the passenger side

Removing

WARNING

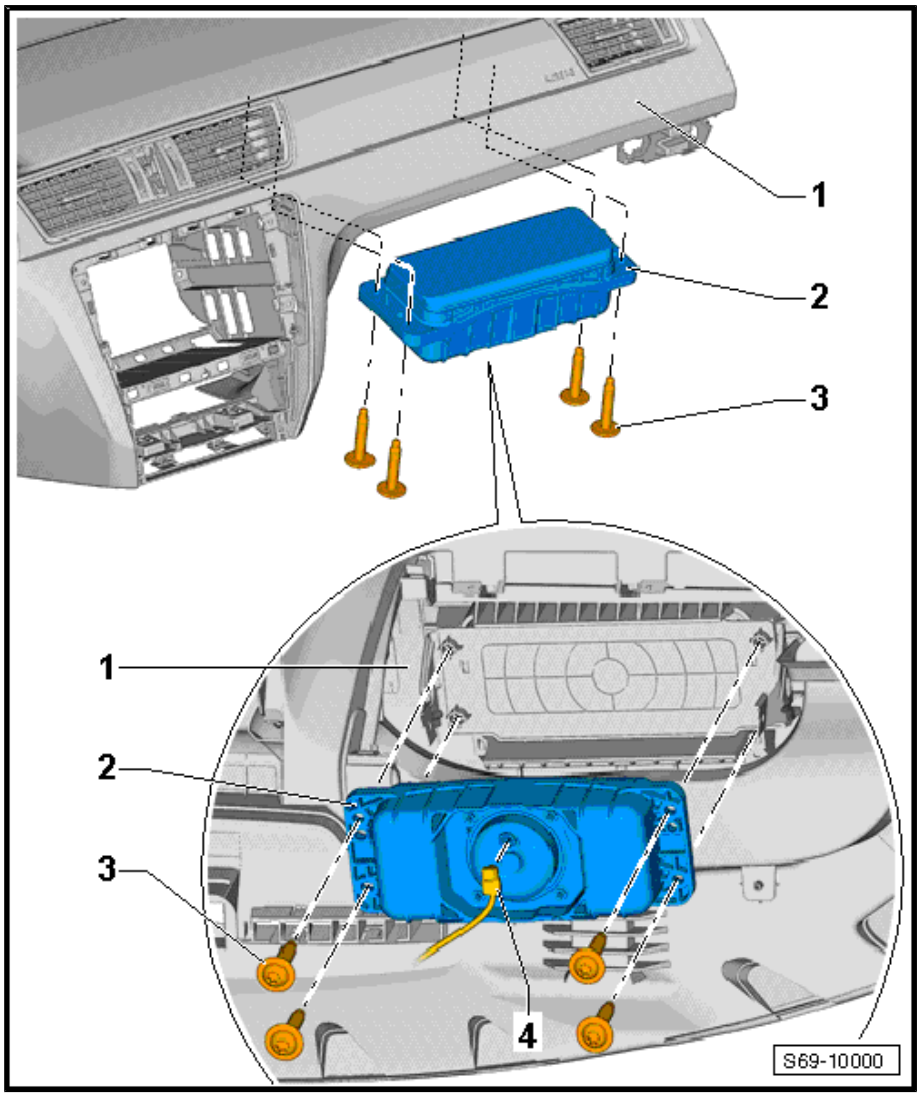
- *Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)*
  ⇒ "3.3 Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)", page 225 .
- *Observe the special instructions for driver and front passenger airbag*
  ⇒ "3.4 Special instructions for driver and front passenger airbag", page 226 .

Carry out the following tasks

WARNING

When electrostatic discharges occur, there is a risk of the airbag being activated unintentionally. Therefore, the mechanic must discharge himself electrostatically before separating the ignition and earth lead. This occurs, for example, by briefly touching the body or the door closing mechanism.

– Disconnect the vehicle battery ⇒ Electrical System; Rep. gr. 27 ; disconnect and connect the battery .
– Remove the glove compartment ⇒ “1.2 Removing and installing the glove compartment”, page 249 from the dash panel -1-.



– Disconnect the plug -4- from the airbag unit -2-.
– Remove screws -3- (7 Nm).
– Take the airbag unit -2- out of the vehicle.

Installing

– The installation occurs in reverse order.
– Switch on ignition.

WARNING

Make sure no person is present in the vehicle.

– Connect the vehicle battery ⇒ Electrical System; Rep. gr. 27 ; disconnect and connect the battery .

Note

If the airbag control indicator - K75 - indicates a fault after assembly, the event memory must be queried ⇒ Vehicle diagnostic tester.

3.16 Removing and installing side airbag

WARNING

- *Observe the safety instructions for pyrotechnic components*
  ⇒ "3.3 Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)", page 225 .
- *Observe the disposal instructions for pyrotechnic components*
  ⇒ "3.5 Storage, transport and disposal of airbag, belt tensioner and battery separation units (pyrotechnical components)", page 226 .

Removing

– Remove front seat
⇒ "1.1 Removing and installing front seat", page 286 .

– Remove front seat backrest.

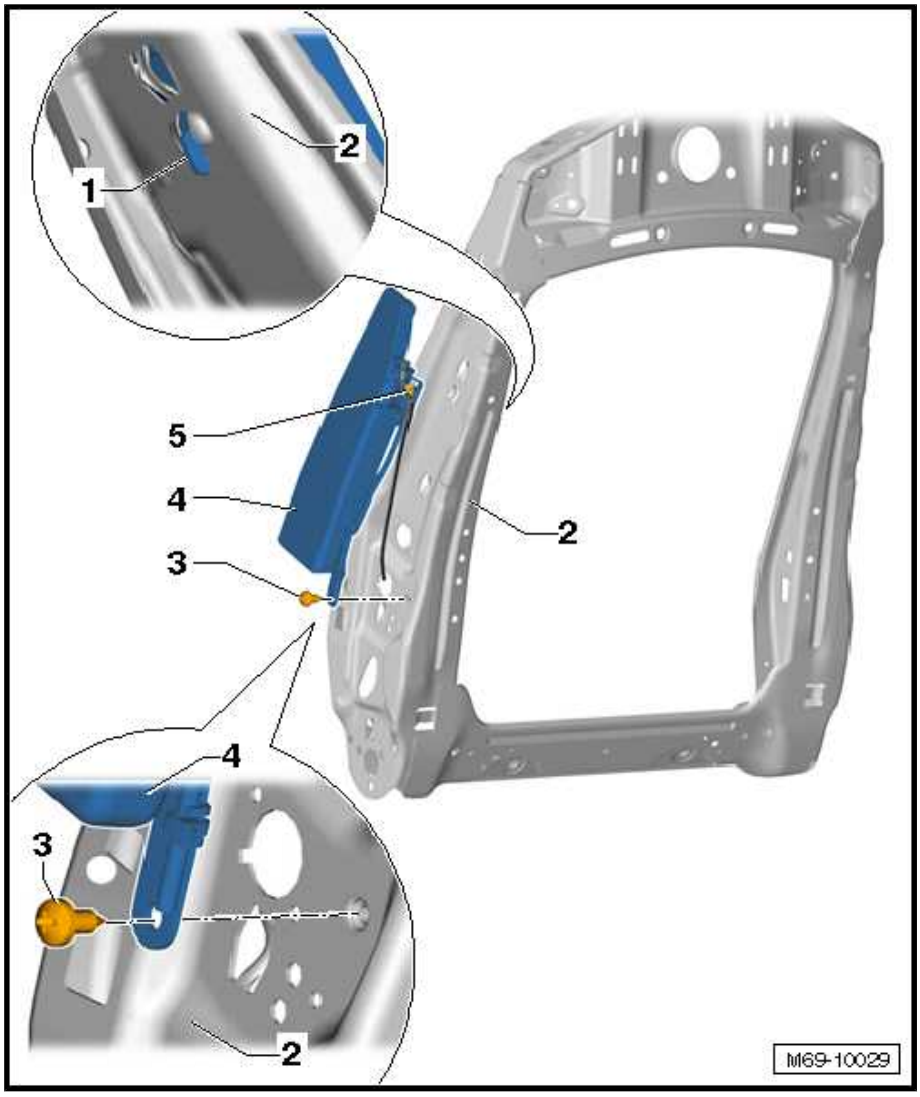
– Remove backrest cover
⇒ "1.3 Removing and installing the cover and the upholstery of the front seat backrest", page 301 .

– Disconnect plug connection -5- for side airbag unit -4-.

– Remove screw -3- (9 Nm).

– Unclip catch -1- for side airbag -4- from the seat rest rack -2-.

– Remove the airbag unit -4- from the seat rest rack -2-.



Installing

WARNING

- *Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components) ⇒ page 225 .*
- *Prior to the handling of pyrotechnical components (for example, disconnecting the electrical plug connection) the person who carries out this operation must "discharge himself electrostatically". For this purpose, briefly touch the door lock, for example.*

– The installation occurs in reverse order.

Note

- *Make sure the plug connection is pushed in as far as it can go and audibly clicks into place.*
- *Make sure that the electric cables are not trapped.*

WARNING

Switch on the ignition before connecting the battery. Improper handling of pyrotechnic components may lead to unwanted deployment after the battery has been connected. Nobody should be inside the vehicle when the battery is being connected.

– Work procedure for connecting the battery ⇒ Electrical system; Rep. gr. 27 ; Disconnecting and re-connecting the battery .

Note

If the airbag control indicator - K75 - indicates a fault after assembly, the event memory must be queried ⇒ Vehicle diagnostic tester.

3.17 Head airbag

3.17.1 Summary of components - head airbag

1 - Anti-twist protection line

- ❑ Used to protect against twisting during installation.
- ❑ It must be visible over the entire length of the airbag in the installed condition.

2 - Head airbag

- ❑ On the driver's and front passenger's side with airbag igniter.

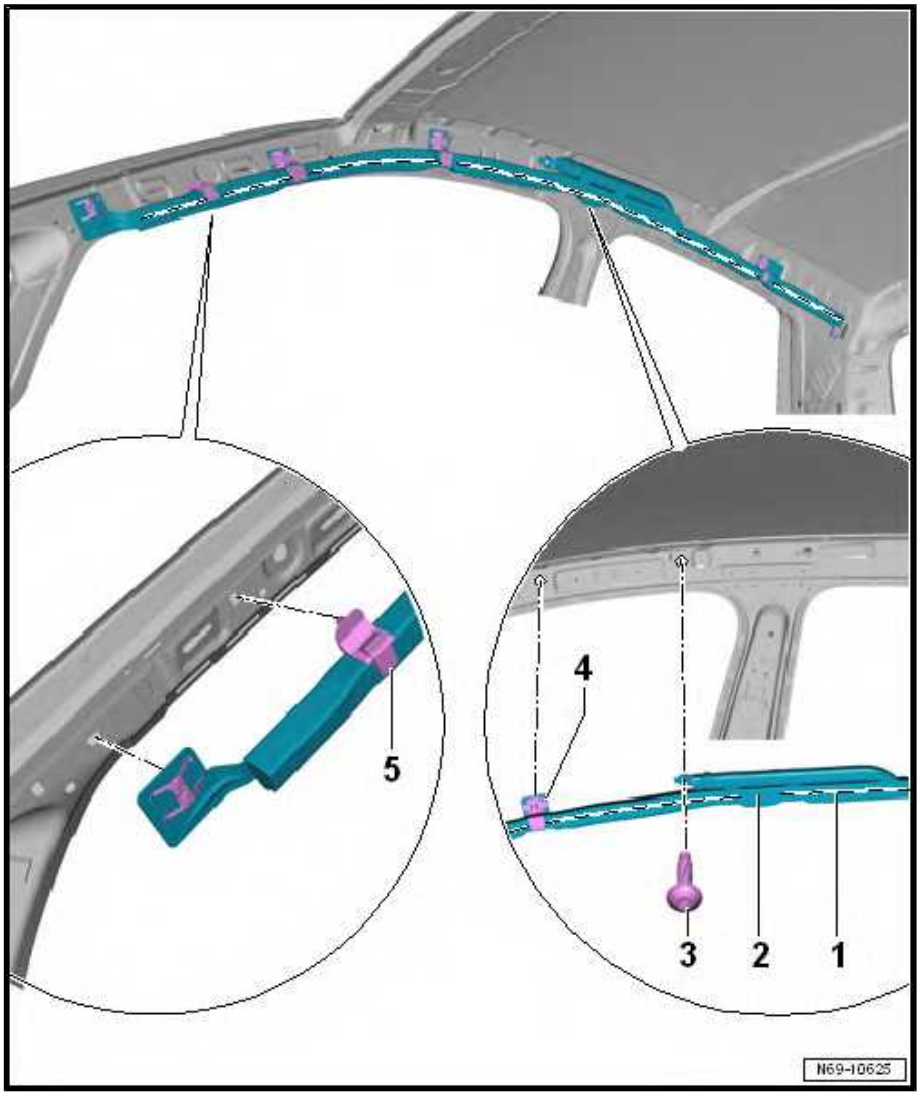
WARNING

Observe the safety instructions for pyrotechnic components ⇒ "3.3 Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)", page 225 .

- ❑ Removing and installing ⇒ "3.17.2 Removing and installing head airbag with ignition for head airbag driver's side/front passenger side N251 / N252 ", page 240

3 - Screw

- ❑ Always use a new screw after disassembly.



❑ 5.2 Nm.

4 - Retaining clip

5 - Retaining clip

3.17.2 Removing and installing head airbag with ignition for head airbag driver's side/front passenger side - N251 - / - N252 -

Removing

WARNING

- *Observe the safety instructions for pyrotechnic components*
  ⇒ "3.3 Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)", page 225 .
- *Observe the additional safety instructions for the head airbag*
  ⇒ "3.4 Special instructions for driver and front passenger airbag", page 226 .
- *Observe the disposal instructions for pyrotechnic components*
  ⇒ "3.5 Storage, transport and disposal of airbag, belt tensioner and battery separation units (pyrotechnical components)", page 226 .

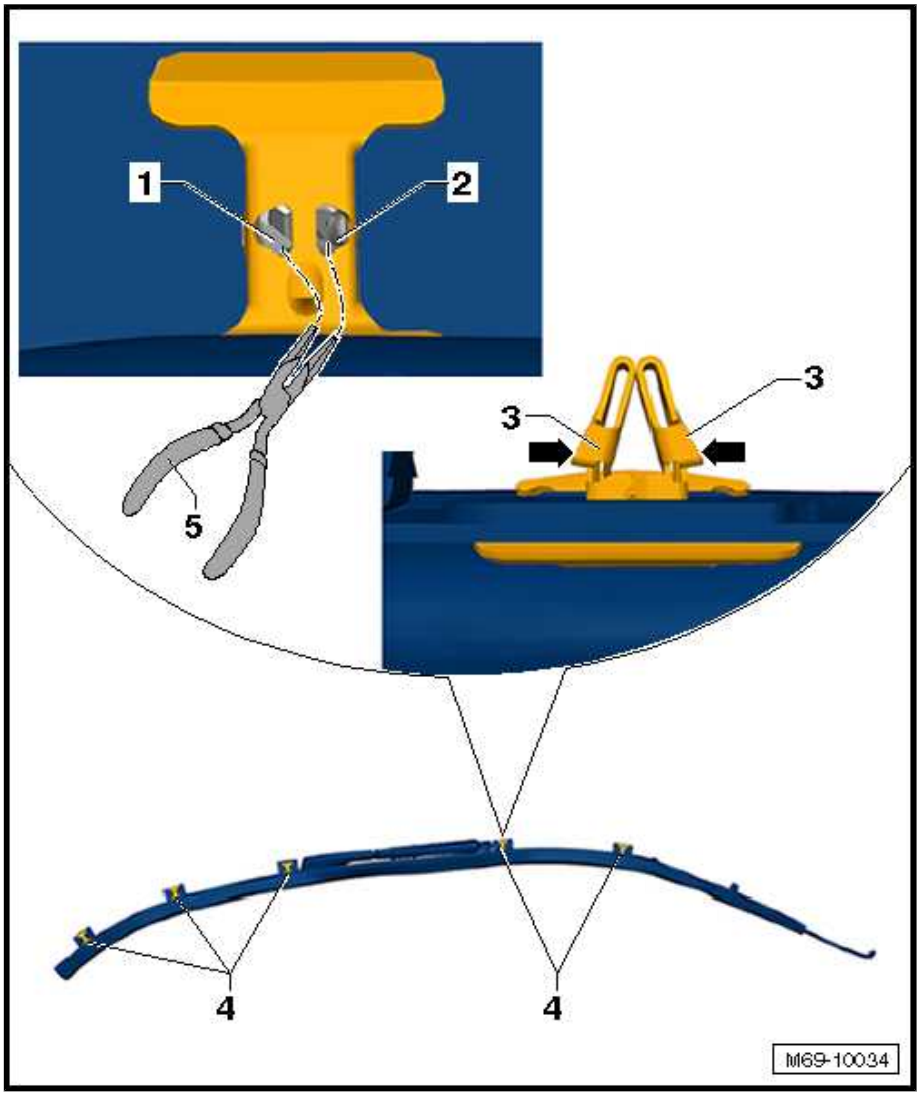
– Turn off the ignition and disconnect the battery earth strap ⇒ Electrical System ; Rep. gr. 27 ; Disconnecting and reconnecting the battery .

– Lower the moulded headliner (not necessary to remove from the vehicle)
⇒ "7.1 Removing and installing moulded headliner", page 282 .

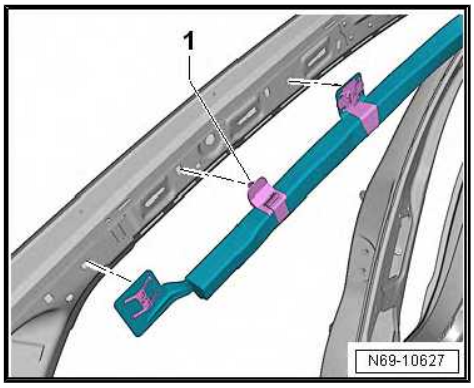
– Remove clips -4- from the head airbag.

– Use e.g. a set of pointed pliers for unclipping. Insert the pliers -5- into openings -1 and 2-. Press gently until the catches -3- are clear.

– Slide the clips out of the body.



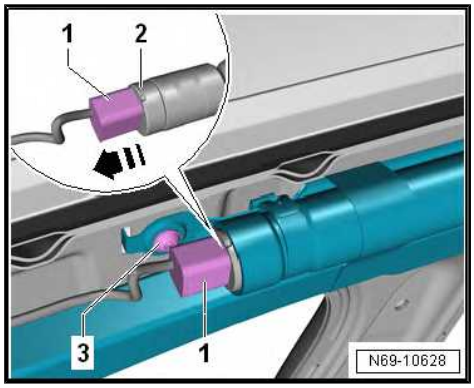
– Unclip the holding clamp -1- from the A pillar.



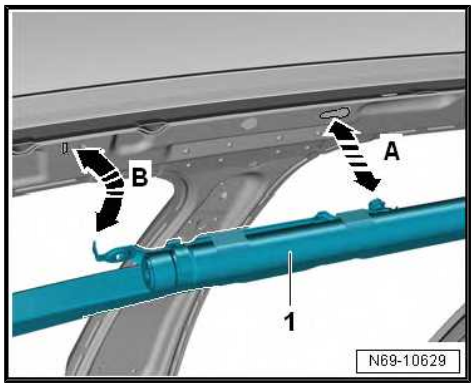
WARNING

Prior to the handling of pyrotechnical components (for example, disconnecting the electrical plug connection) the person who carries out this operation must "discharge himself electrostatically". For this purpose, briefly touch the door lock, for example.

– Remove plug -1- and pull out from head airbag unit -2- -arrow-.
– Remove the screw -3- from the head airbag.



– First unhook the head airbag -1- at the front from the body -arrow B- and push out towards the rear.
– Unhook the rear head airbag from the body -arrow A- and remove.

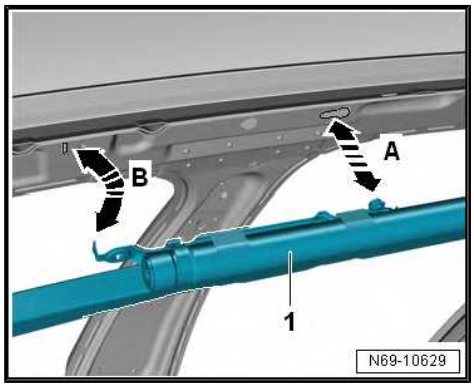


Installing

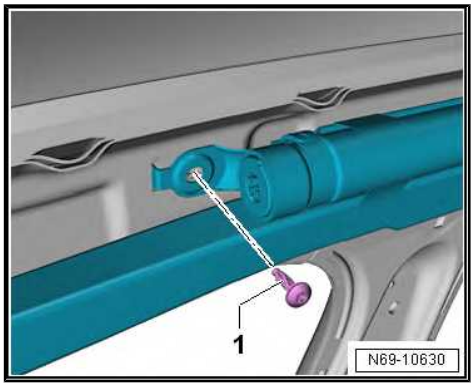
WARNING

- *Observe the safety instructions for pyrotechnic components*
  ⇒ "3.3 Observe the general safety instructions for working on airbag, belt tensioner and battery separation units (pyrotechnical components)", page 225 .
- *Observe assembly sequence.*
- *Prior to the handling of pyrotechnical components (for example, disconnecting the electrical plug connection) the person who carries out this operation must "discharge himself electrostatically". For this purpose, briefly touch the door lock, for example.*

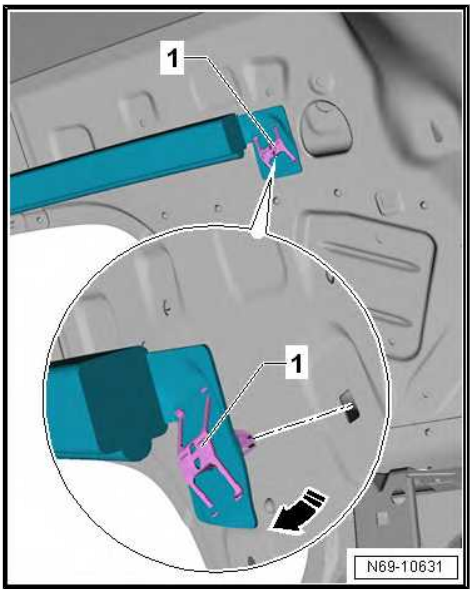
– First suspend the head airbag -1- at the rear on the body -arrow A- and push towards the front.
– Attach to the body at the front -arrow B-.



– Screw in screw - 1 - (5.2 Nm).



– Rotate the rear retaining clip -1- downwards by 90° -arrow- and engage in the body.
– Press in the remaining retaining clips of the head airbag until they audibly lock into place, beginning at the gas generator towards the front and rear.
– Carry out a tensile test on the retaining clips and check them to make sure they are locked completely.
– Mount connector on head airbag.
– Push connector in up to the stop until the plug lock engages.
– Check whether the anti-twist protection line (coloured longitudinal stripes on the airbag unit) is visible over the entire length and is straight. This ensures that the airbag has not become twisted.
– Further installation occurs in reverse order.



WARNING

Observe work procedure for connecting the battery ⇒ Electrical system; Rep. gr. 27 ; Disconnecting and re-connecting the battery .

Note

If the airbag control indicator - K75 - indicates a fault after assembly, the event memory must be queried ⇒ Vehicle diagnostic tester.

70 – Trim, insulation

1 Dash panel

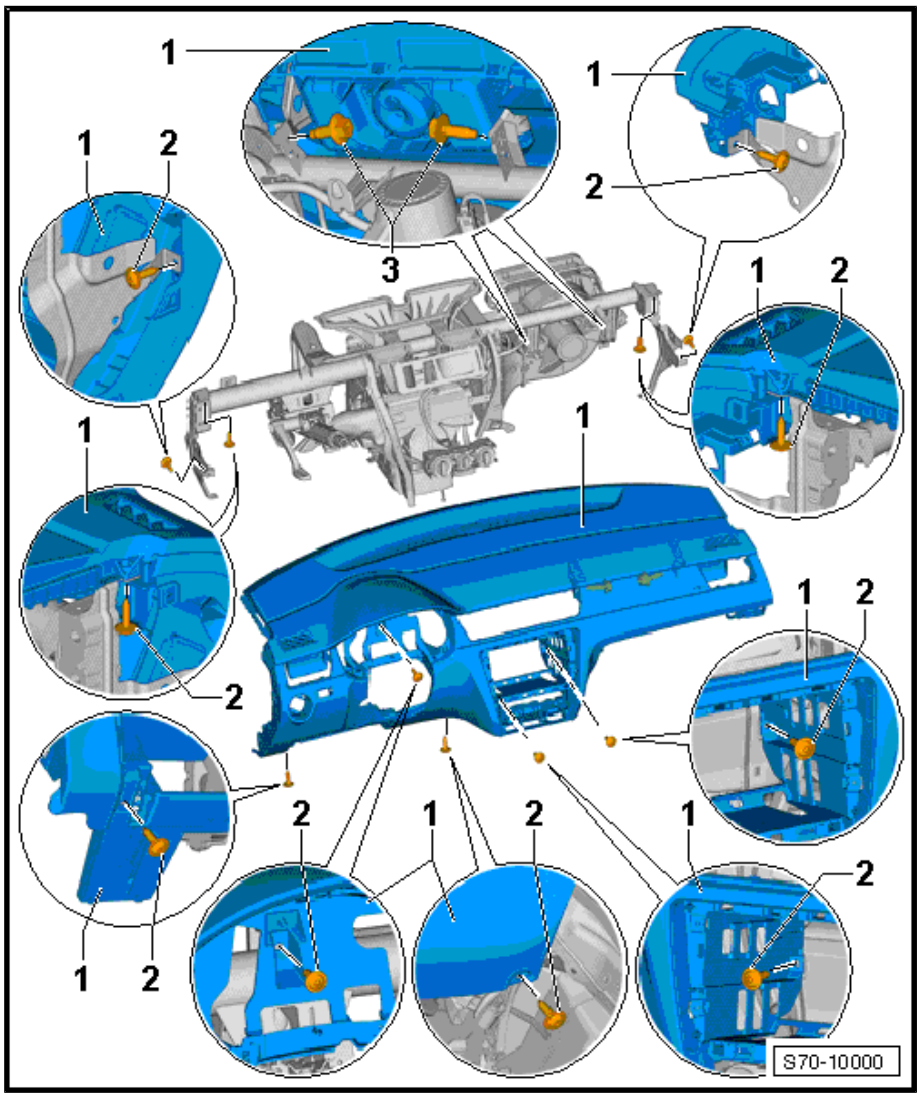
1.1 Removing and installing the dash panel

Summary of components of dash panel

1 - Dash panel

2 - Screw

- ❑ Tightening torque - 1.5 Nm.



Volkswagen Technical Site: http://vwts.ru http://vwts.info

Removing

Note

Disconnect battery earth strap ⇒ Electrical System; Rep. gr. 27 .

– Remove driver's airbag unit
⇒ “3.13 Removing and installing driver airbag unit”, page 233 .

– Remove the steering wheel
⇒ “3.12 Summary of components of steering wheel”, page 232 .

– Remove steering column trim panel
⇒ “1.3 Removing and installing the steering column trim panel”, page 251 .

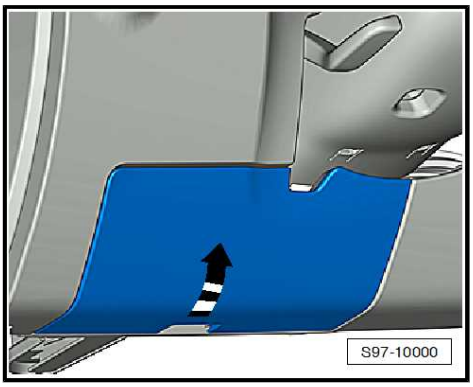
– Removing dash panel insert ⇒ Electrical System; Rep. gr. 90 .

– Remove light switch ⇒ Electrical System; Rep. gr. 96 .

– Pull plug out of the daytime running light switch and the headlight range control adjuster ⇒ Electrical System; Rep. gr. 96 .

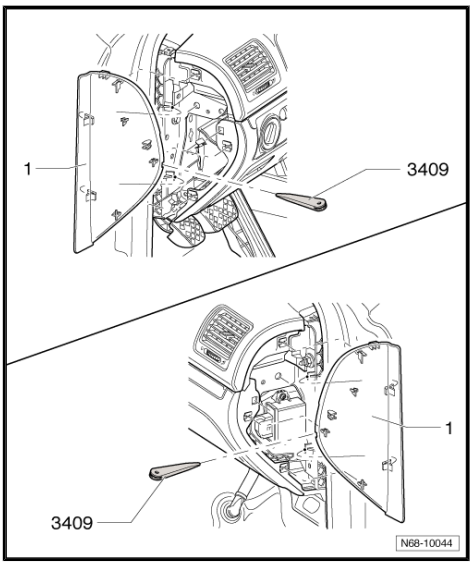
– Remove cover of fuse box.

– Unscrew screws for fuse box and unhook it ⇒ Electrical System; Rep. gr. 97 .



– Remove the lateral dash panel covers -1 and 2- e.g. using the disassembly wedge -3409-.

– Remove the glove compartment
⇒ “1.2 Removing and installing the glove compartment”, page 249 .



– Unclip frame -1-.

– Unscrew screws for radio or navigation (depending upon vehicle equipment) ⇒ Electrical System; Rep. gr. 91 .

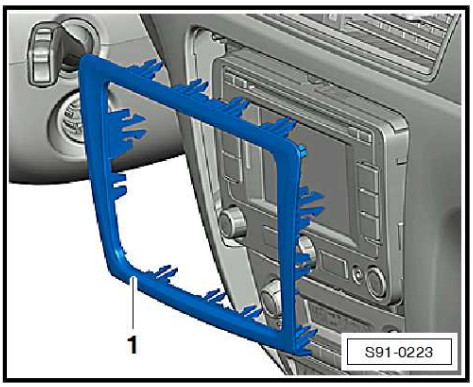
– On vehicles without radio or navigation, remove the storage compartment of the middle dash panel.

Air conditioning system with manual control

– Remove the heater control ⇒ Heating, Air Conditioning; Rep. gr. 87 .

Automatic air conditioning system

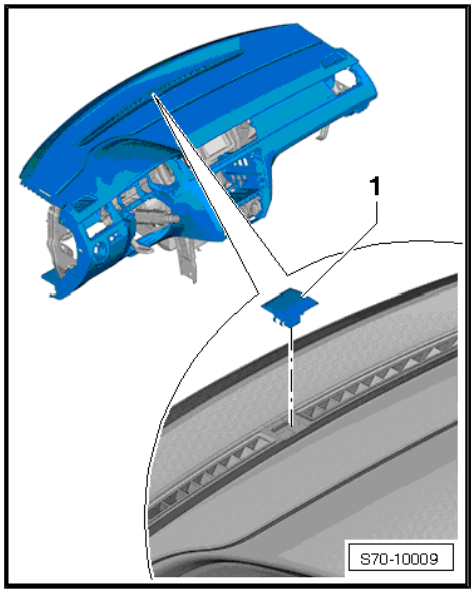
– Removing the control and display unit for air conditioning system with control unit ⇒ Heating, Air Conditioning; Rep. gr. 87 .



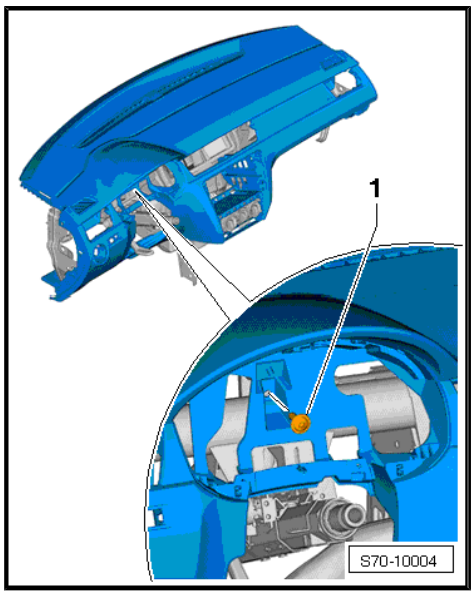
– Remove the sunlight penetration photosensor ⇒ Heating and Air Conditioning; Rep. gr. 87 .
– Remove vents, right, left (pull out sender plugs) and centre vent (disconnect plug connections for hazard warning light switch and airbag deactivation warning light) ⇒ Heating, Air Conditioning; Rep. gr. 87 .

Vehicles without air conditioning system

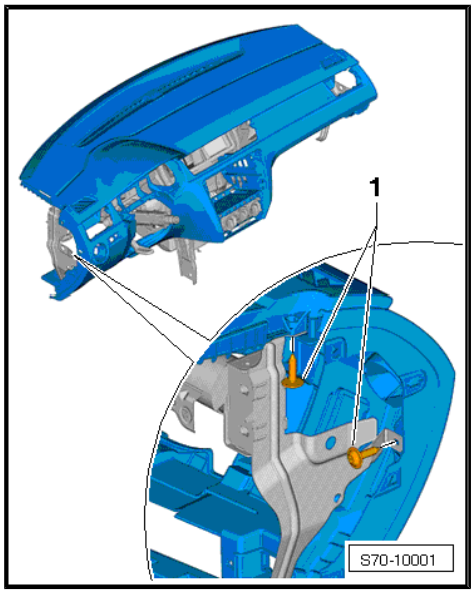
– Remove control for heating and fresh air ⇒ Heating, Air Conditioning; Rep. gr. 80 .
– Remove the right, left and centre vents (disconnect the plug connection for the switch of the hazard warning light system and the warning light for airbag switch-off function) ⇒ Heating, Air conditioning; Rep. gr. 87 .
– Remove the top trim panel of the pillar A ⇒ "3.1 Removing and installing top trim panel of pillar A", page 263 .



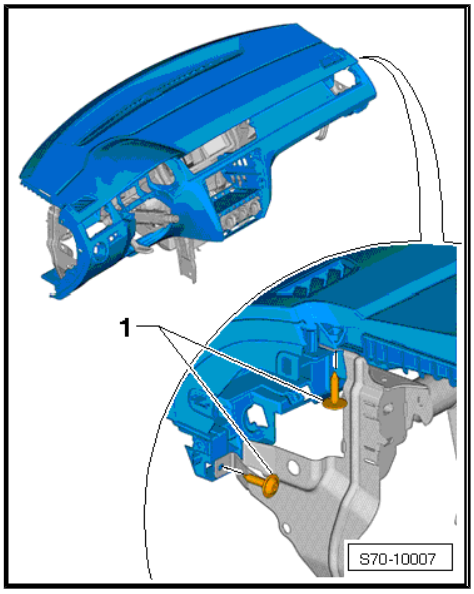
– Remove screw -1- (1,5 Nm).



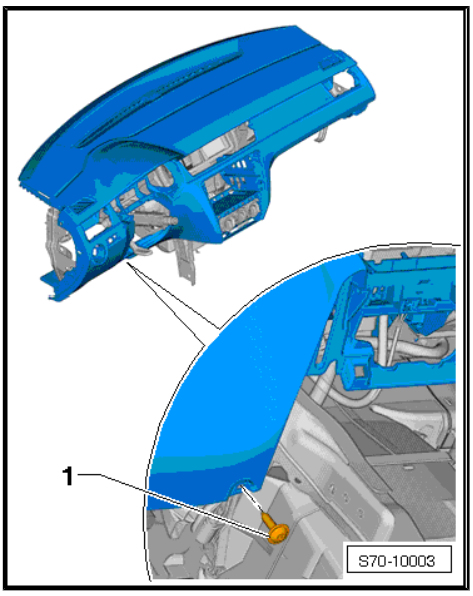
– Remove screws -1- (1,5 Nm).



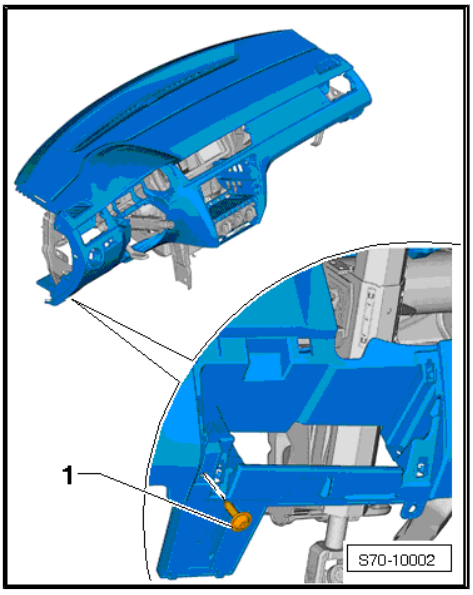
– Remove screws -1- (1,5 Nm).



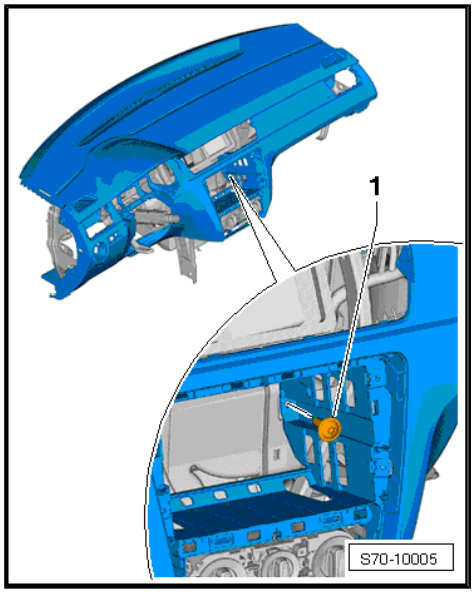
– Remove screw -1- (1,5 Nm).



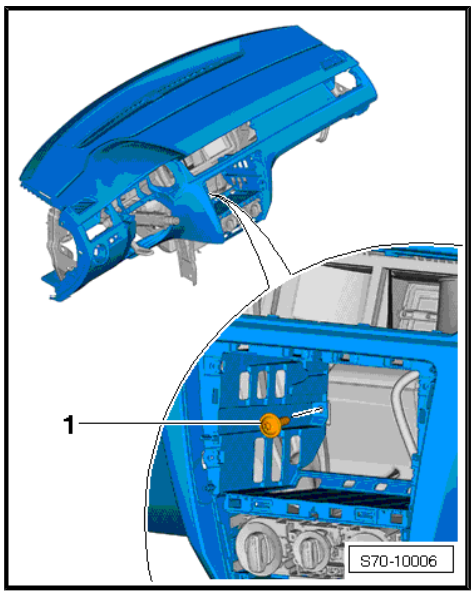
– Remove screw -1- (1,5 Nm).



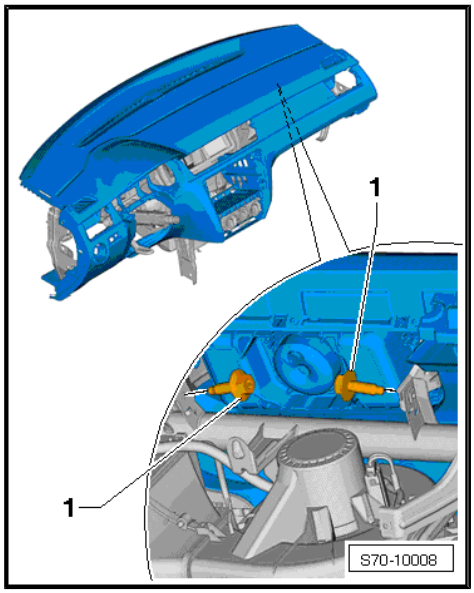
– Remove screw -1- (1,5 Nm).



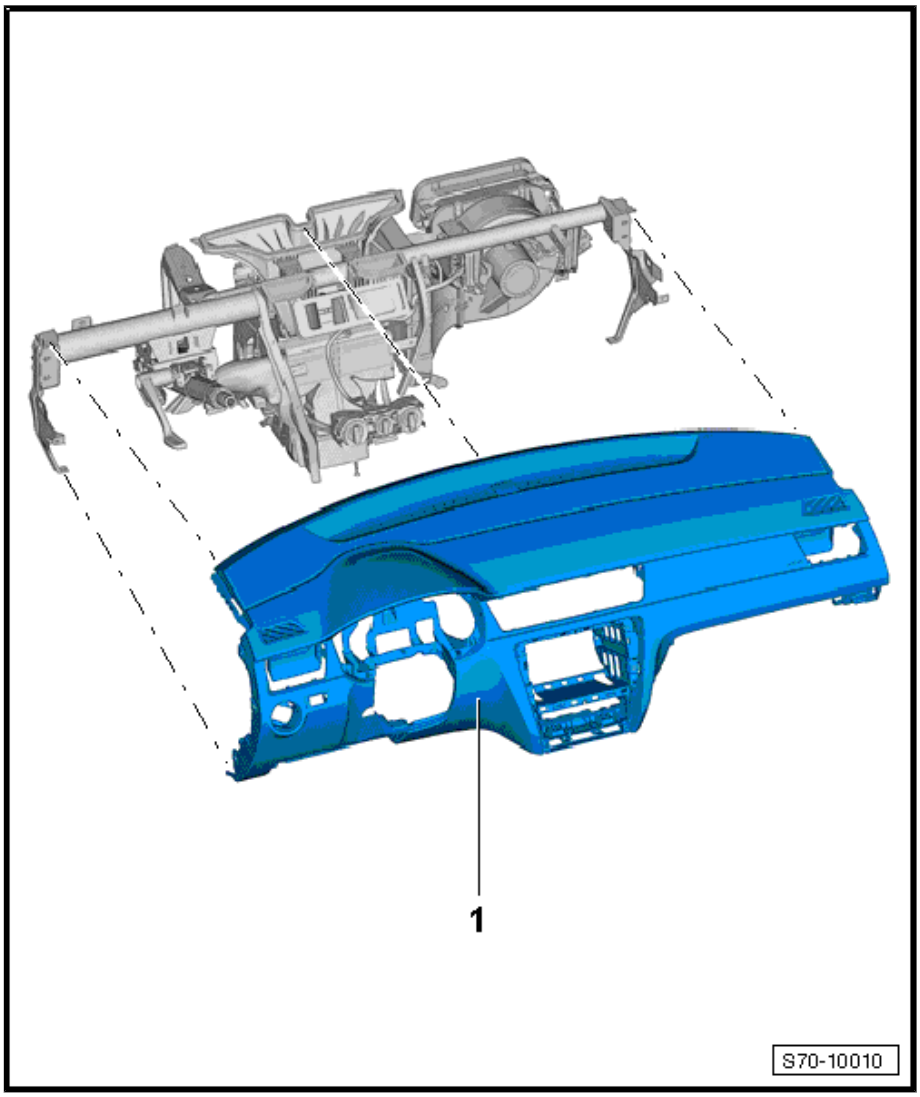
– Remove screw -1- (1,5 Nm).



– Remove fixing screws for front passenger's airbag unit - 1 - (9 Nm).
– Disconnect airbag unit plug connection (depending on vehicle equipment).
– Pull the dash panel out of the supports in the transition area to the windscreen.



– Remove the dash panel - 1 - from the vehicle with the assistance of a second mechanic.



Installing

– The installation occurs in reverse order.

Note

Before the installation, check all the fixing elements for damage, if necessary replace.

1.2 Removing and installing the glove compartment

Removing

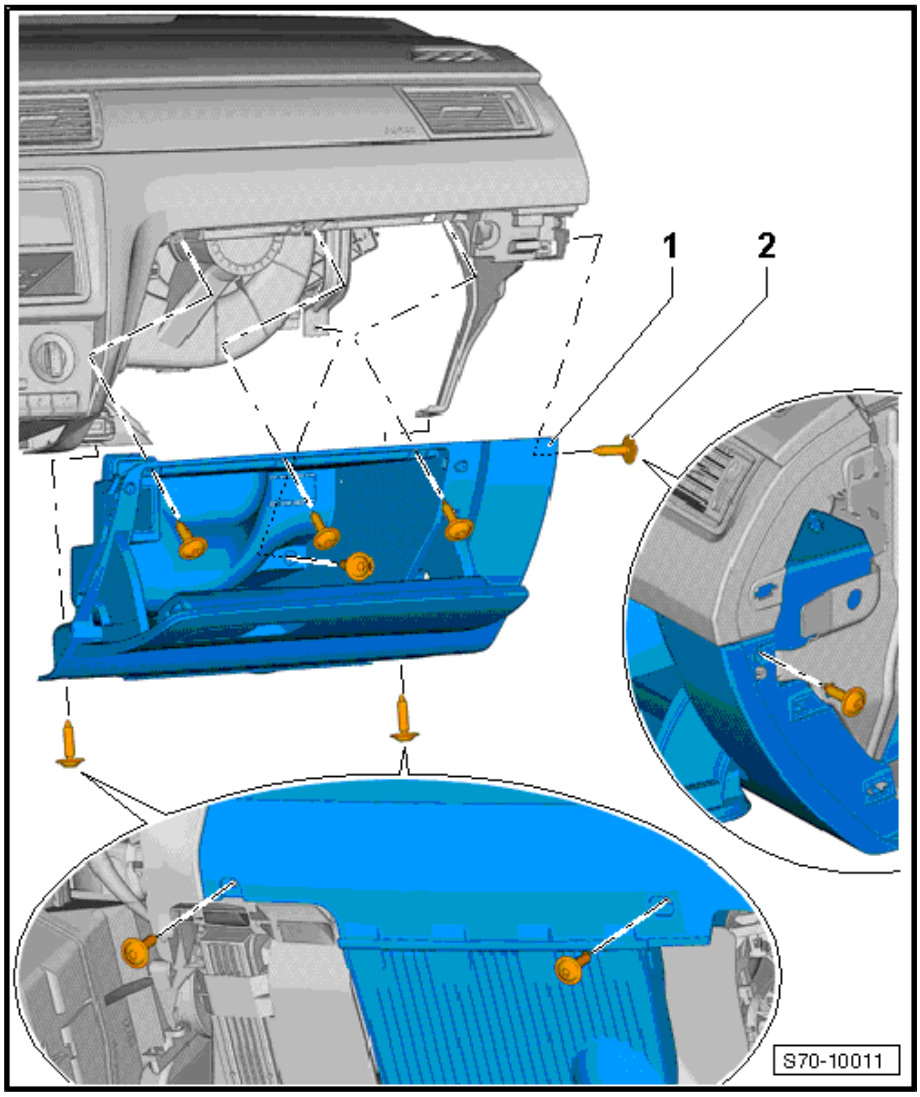
– Remove the lateral dash panel cover on the front passenger side.

– Release screws -arrows- (1.5 Nm).

– Release screws -1 and 2- in the glove compartment (1.5 Nm).

– Release screws -3- and -4- (1.5 Nm).

– Loosen the glove compartment from the dash panel.
– Disconnect plug connection for front passenger airbag deactivation.
– Detach intake hose for AC glove compartment.
– Detach the plug from the glove compartment light.
– Remove glove compartment from vehicle.



Installing

– The installation occurs in reverse order.

Note

Before the installation, check all the fixing elements for damage, if necessary replace.

1.3 Removing and installing the steering column trim panel

Removing

– Remove driver's airbag unit
⇒ “3.13 Removing and installing driver airbag unit”, page 233 .

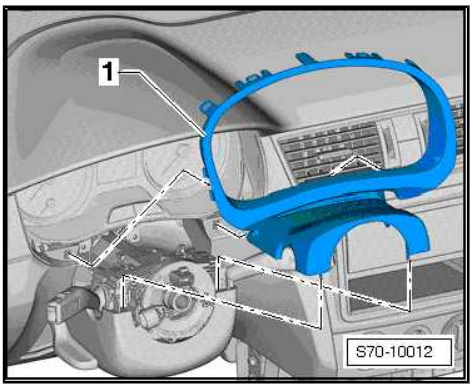
– Remove the steering wheel
⇒ “3.12 Summary of components of steering wheel”, page 232 .

– Slacken the fixing lever of the steering wheel adjustment.

– Pull out the steering column and press it down.

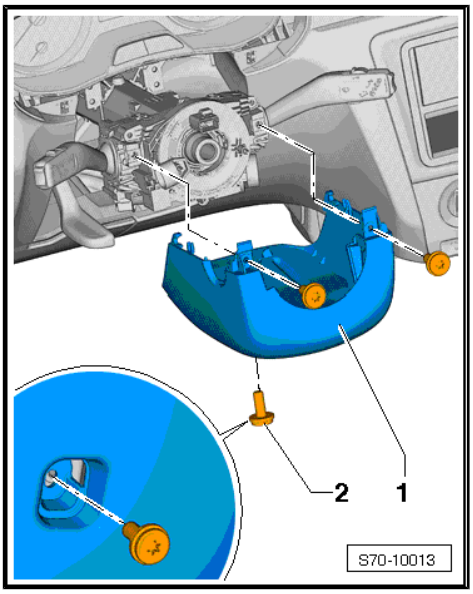
– Loosen the frame with the top part of the steering column trim panel -1- from the supports.

– Remove the top part of the steering column trim panel -1-.



– Release the screws from the bottom part of the steering column trim panel - 1 - (1.5 Nm).

– Loosen the bottom part of the steering column trim panel -2- from the supports.



Installing

– The installation occurs in reverse order.

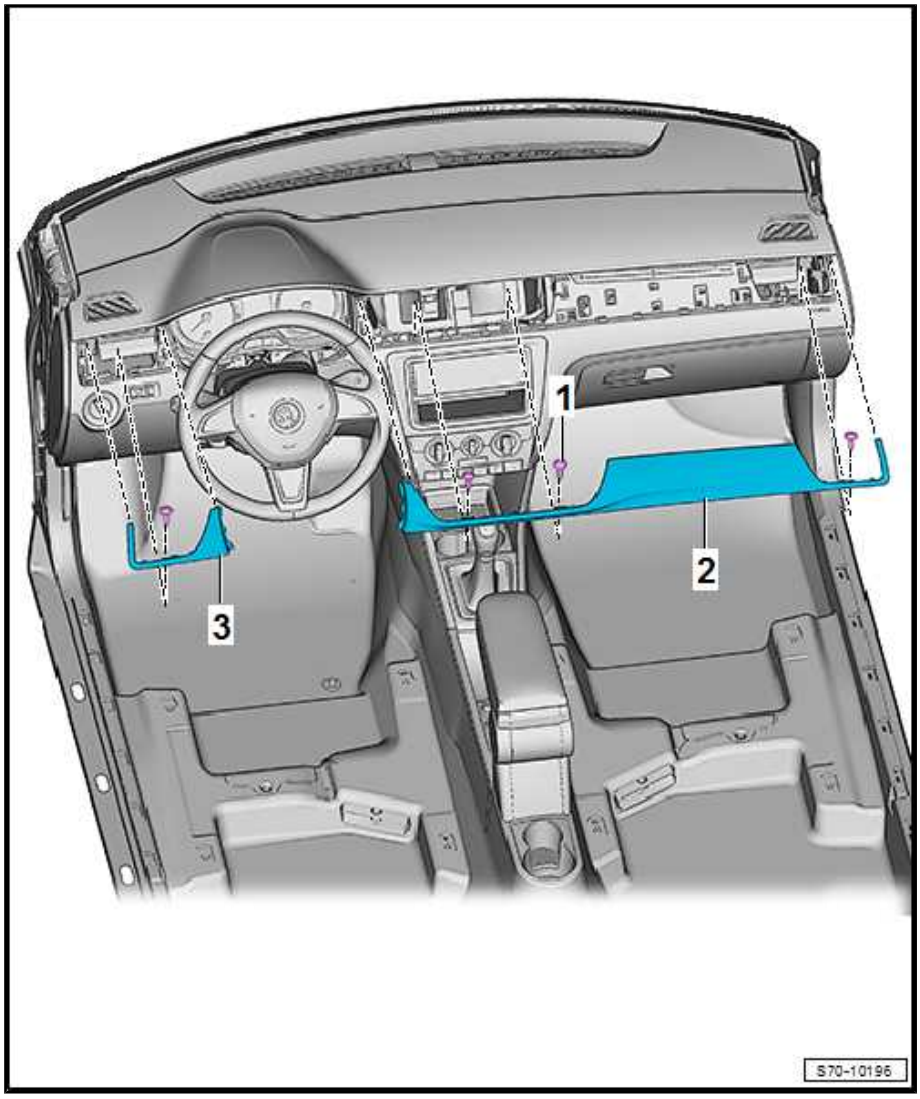
1.4 Removing and installing the decorative trim of the dash panel

Removing

– Remove vent ⇒ Heating, Air Conditioning; Rep. gr. 87 .

– Unscrew screws -1-.

– Carefully unclip the decorative trims - 2 and 3 - with e.g. a dismantling wedge -3309- .



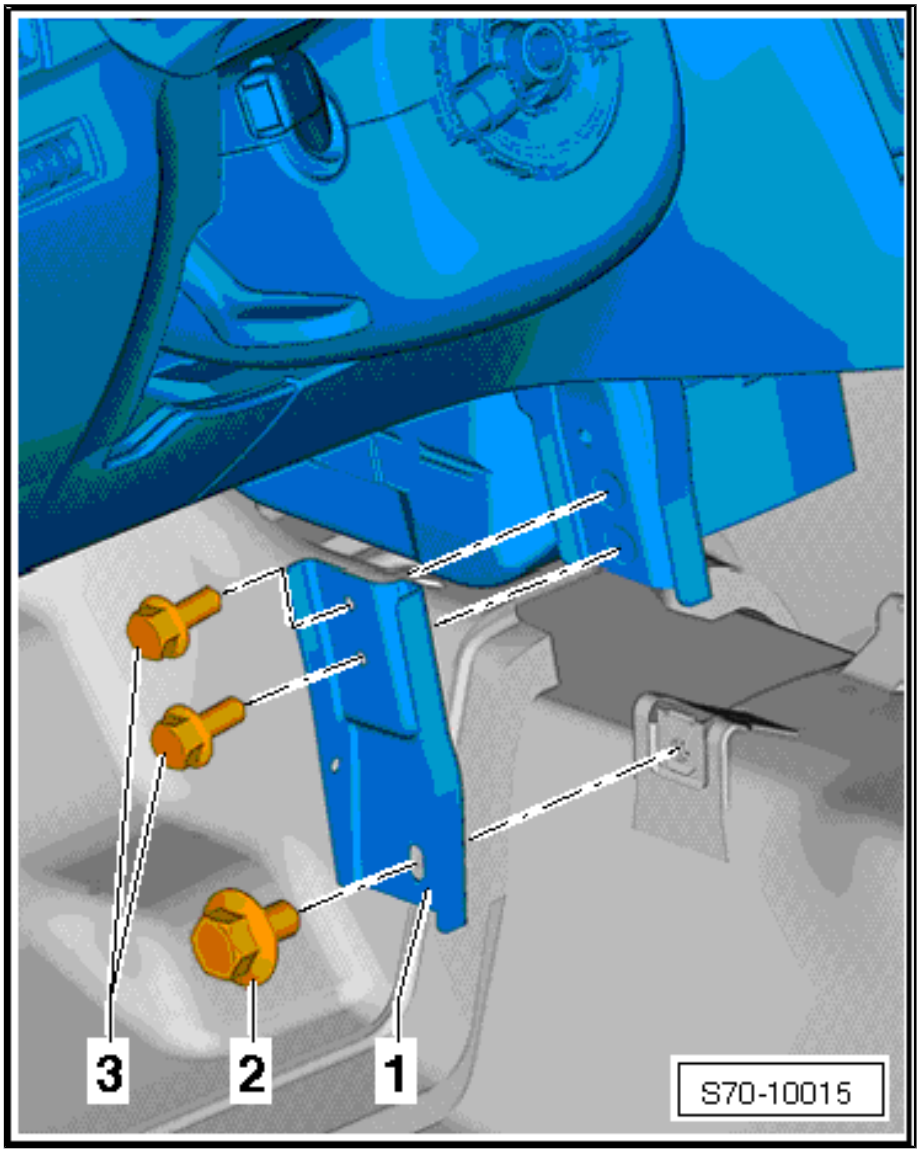
Installing

– Slide decorative trim into the recesses in the dash panel.
– Press in the panel until the clips click into place.
– Install screws -1- (1.5 Nm).
– Install vents.

1.5 Removing and installing the cross member for the dash panel

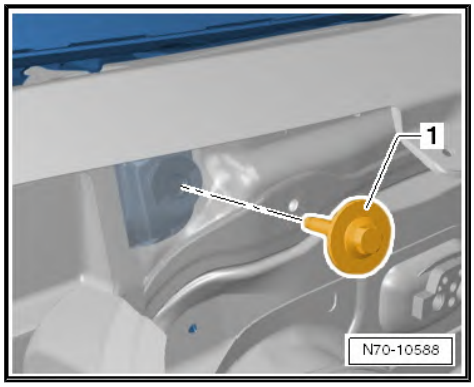
Removing

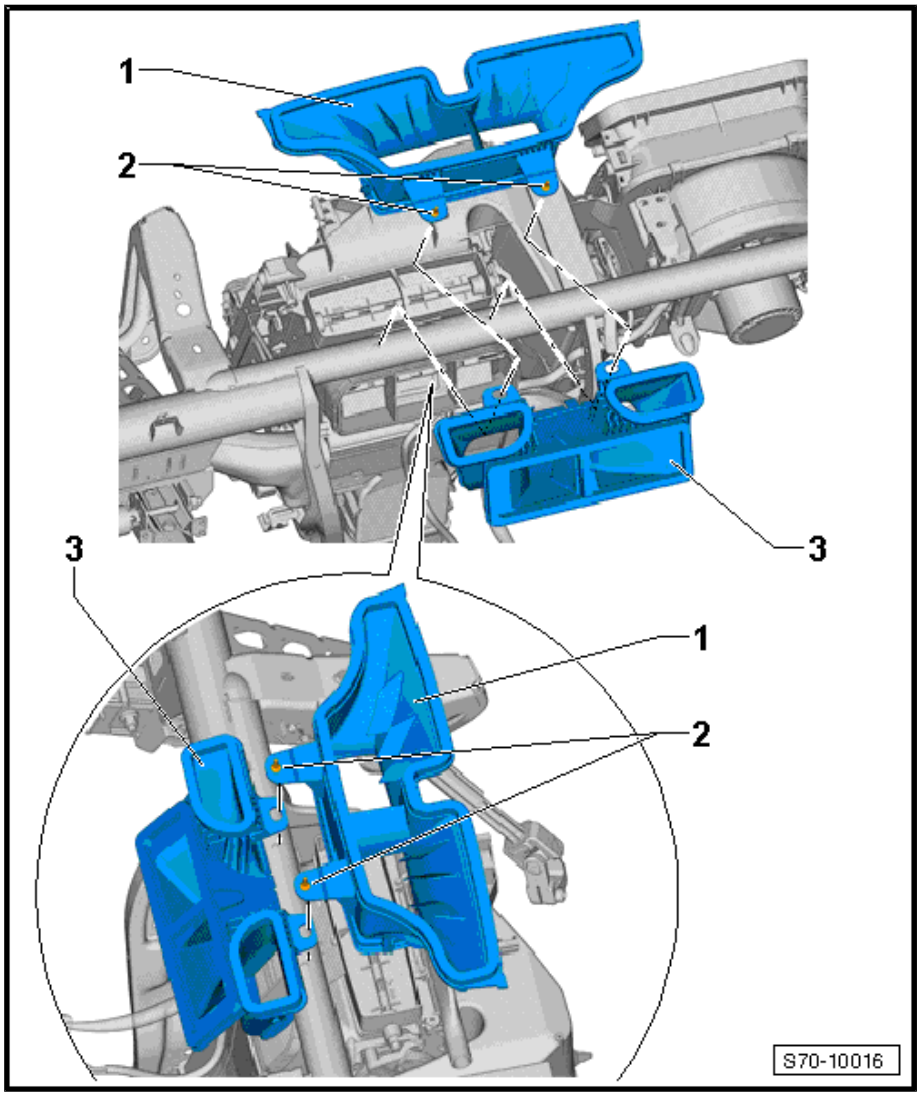
– Removing dash panel
⇒ “1.1 Removing and installing the dash panel”, page 244 .
– Removing the centre console
⇒ “2.2.2 Removing and installing centre console”, page 203 .
– Remove screws -3- (9 Nm).
– Release screw -2- (20 Nm) and remove support -1-.



– Removing the left footwell vent on the driver side ⇒ Heating, Air Conditioning; Rep. gr. 80 .
– Remove the steering column assembly from the crossmember ⇒ Chassis; Rep. gr. 48 .
– Remove wiper arms and wiper motor ⇒ Electrical System; Rep. gr. 92 .
– Remove the plenum chamber cover ⇒ “1.8 Plenum chamber cover”, page 13 .

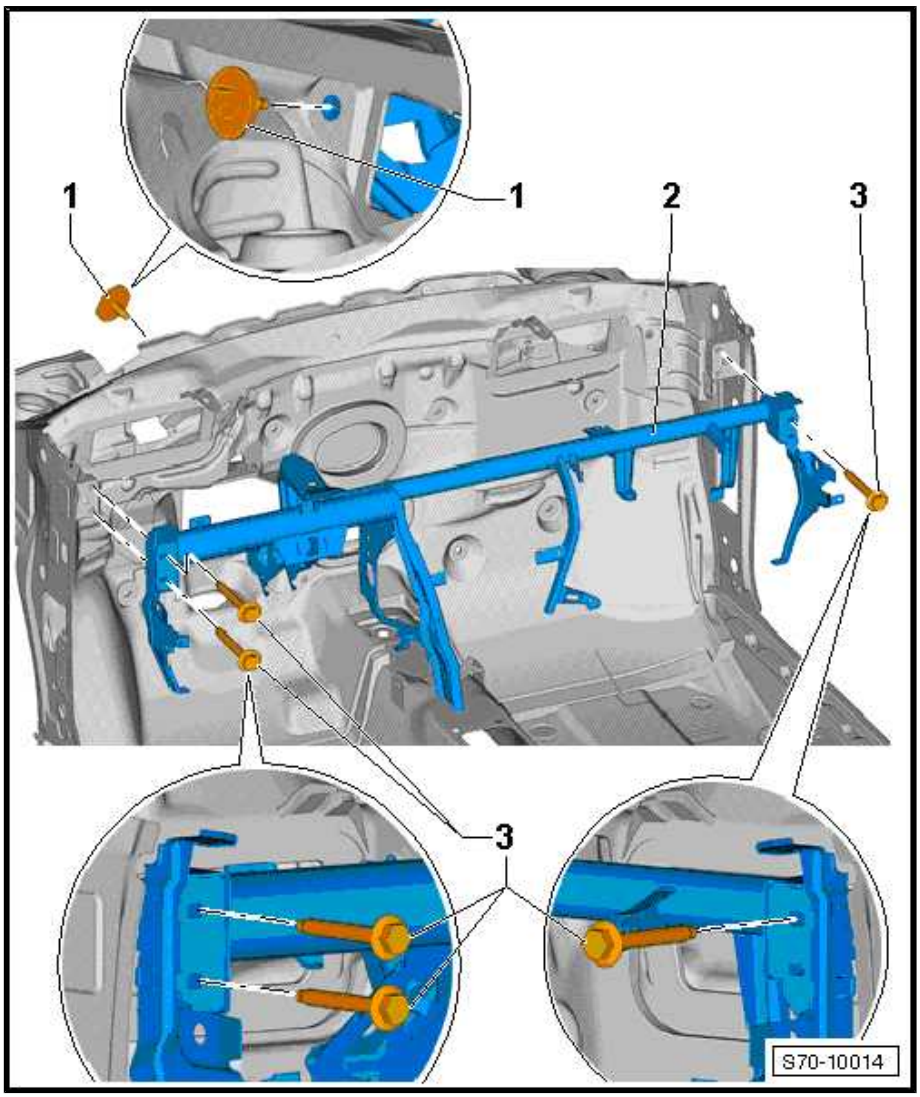
– Release the screw -1- in the plenum chamber on the driver's side (20 Nm).





– Press out expanding pins -2-.
– Pull out expanding rivets.
– Remove the intermediate piece -3- ⇒ Heating, Air Conditioning; Rep. gr. 80 .
– Remove air guide duct -1- ⇒ Heating, Air Conditioning; Rep. gr. 80 .
– Remove other components attached to the cross member if necessary.

– Remove screws -3- (20 Nm).
– Remove screw -1- (20 Nm).



– Slacken wiring loom attachment from cross member.

Installing

– The installation occurs in reverse order.

Note

Before the installation, check all the fixing elements for damage, if necessary replace.

1.6 Removing and installing impact absorbers

Removing

– Assignment ⇒ Electronic Catalogue of Original Parts .

– Removing dash panel
⇒ “1.1 Removing and installing the dash panel”, page 244 .

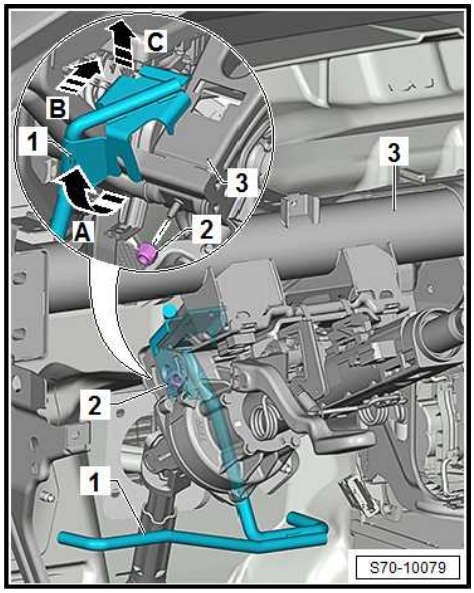
– Removing foot control ⇒ Rep. gr. 46 ; Brake systems; removing and installing bearing bracket .

– Removing clutch pedal ⇒ Rep. gr. 30 ; Clutch operation; removing and installing clutch pedal .

– Unscrew nuts Pos. -2-.

– Slide out strut from opening in central pipe.

– Remove strut.



Installing

– The installation occurs in reverse order.

2 Door and side trim panels

2.1 Removing and installing the front door trim panel

Removing

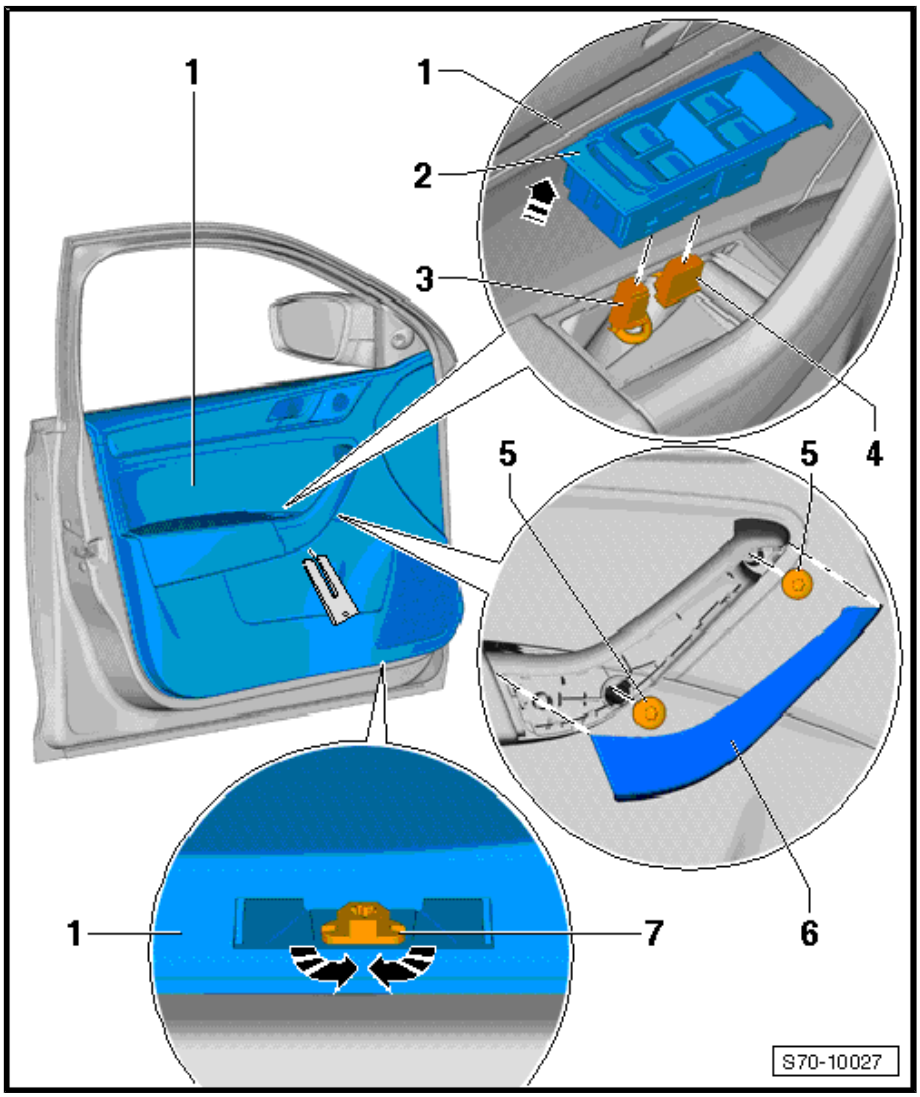
– Switch off the ignition and all electrical components.

– Remove trim -2- for power window lifter ⇒ Electrical System; Rep. gr. 96 and disconnect plugs -3 and 4-.

– Unclip the trim - 6 - e.g. Using the disassembly wedge - T10383, 3409- .

– Turn the nut -7 - by 90° at the bottom side using the open-end spanner SW 10 and unlock the catch peg.

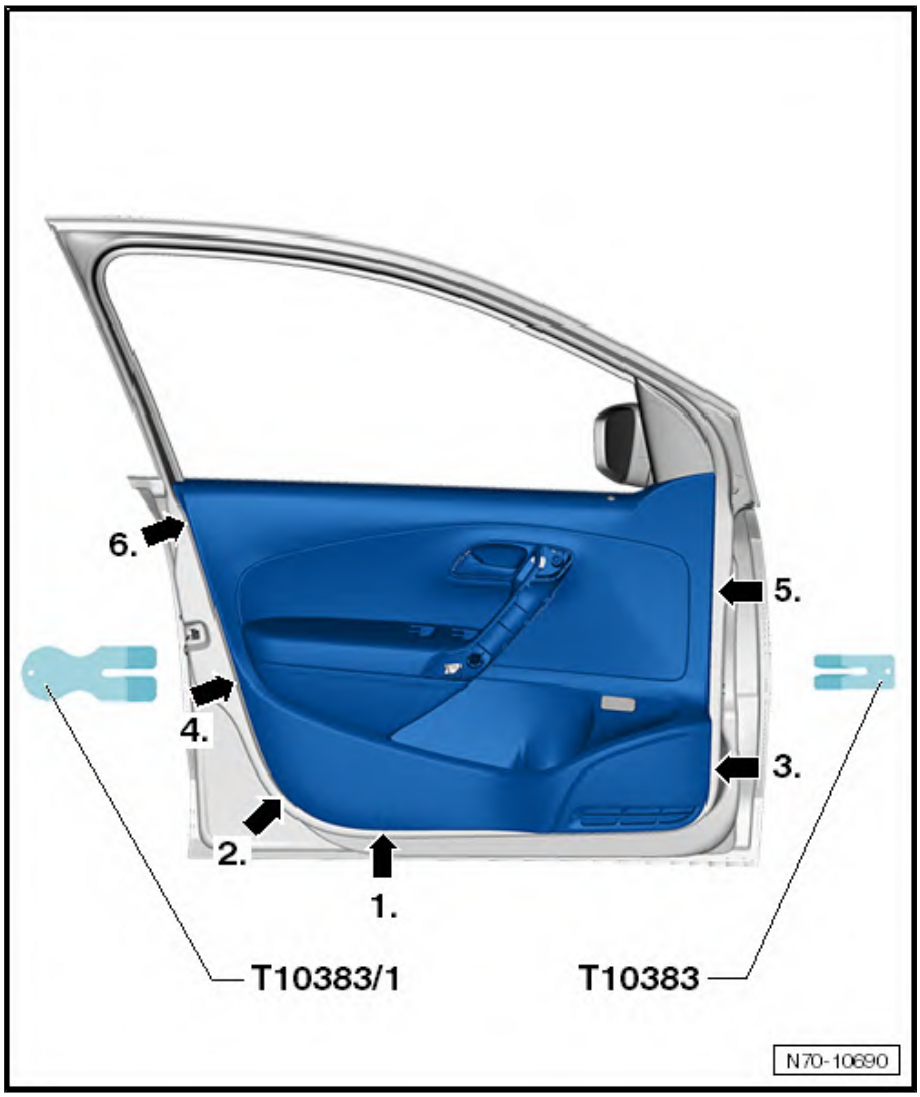
– Remove screws -5- (4 Nm).



Caution

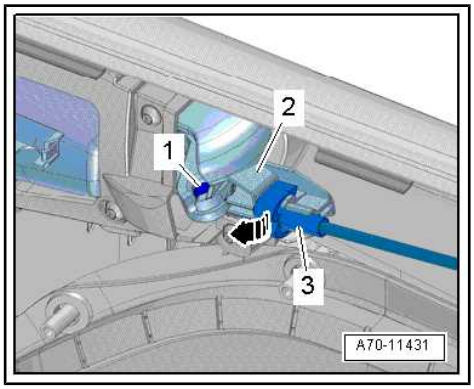
When releasing the door trim panel, there is the risk that damage may occur on the fixing elements! To prevent this, the specified location and order of the clip connections to be loosened must absolutely be kept when removing the door trim panel!

– Loosen the door trim panel in the -specified order - out of the clip connections. To do this, e.g. use the wide plastic wedge - T10383 / 1, T10383- .



– Pull the door trim panel towards the top and out of the window channel.

– Push the Bowden cable -3- on the inside of the door trim panel out of the inner door control -2- in -direction of arrow- and unclip the end piece -1-.
– Disconnect the electrical plug connections from the door trim panel depending on the vehicle equipment.



Installing

– The installation occurs in reverse order.

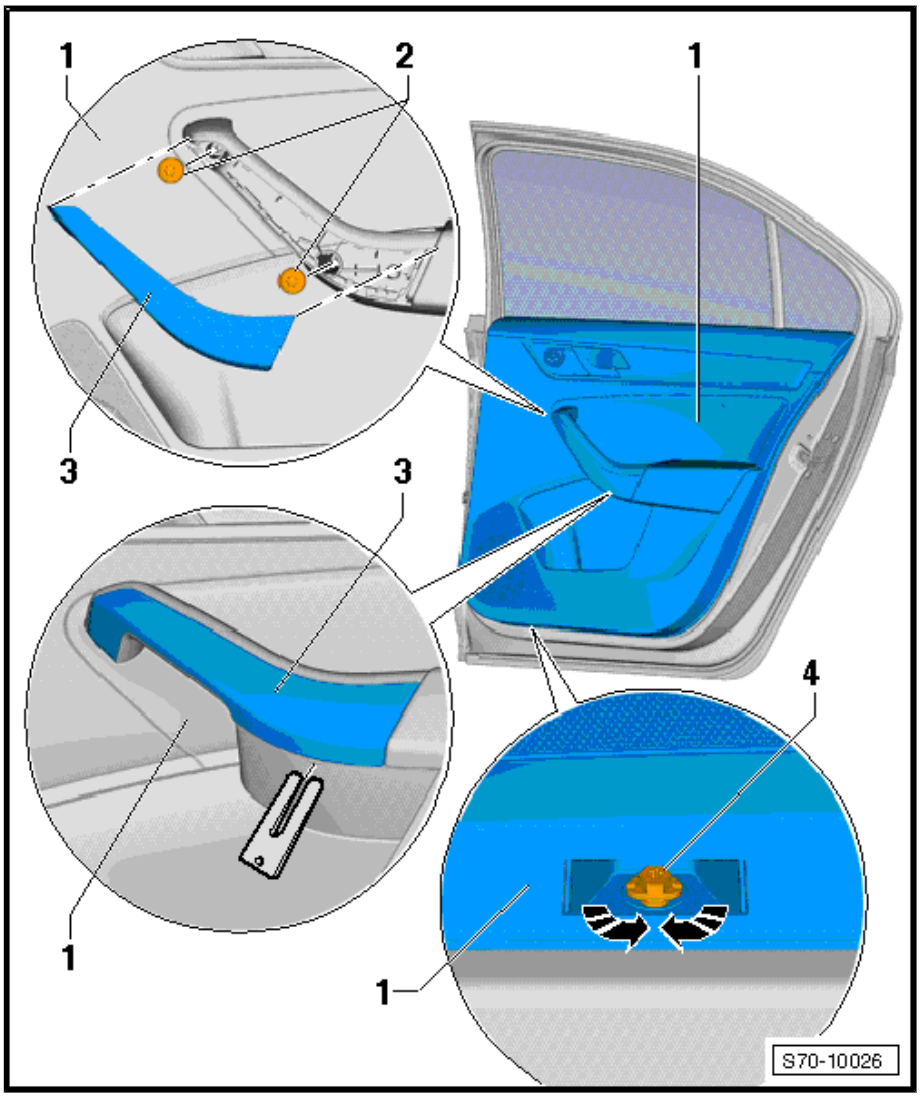
Note

Before the installation, check all the fixing elements for damage, if necessary replace.

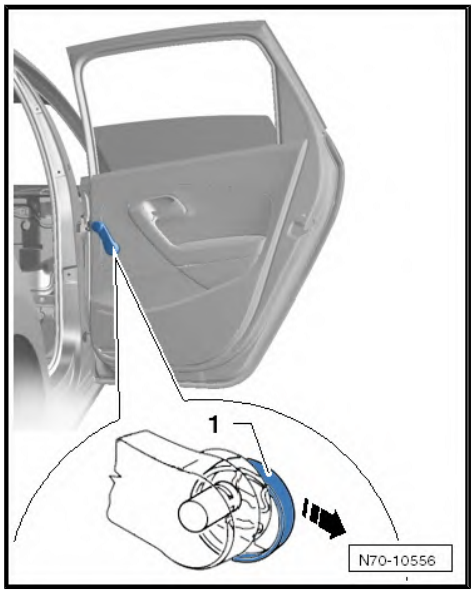
2.2 Removing and installing the rear door trim panel

Removing

– Switch off the ignition and all electrical components.
– Carefully clip the trim -3- out of the door trim panel e.g. using the disassembly wedge - T10383, 3409- .



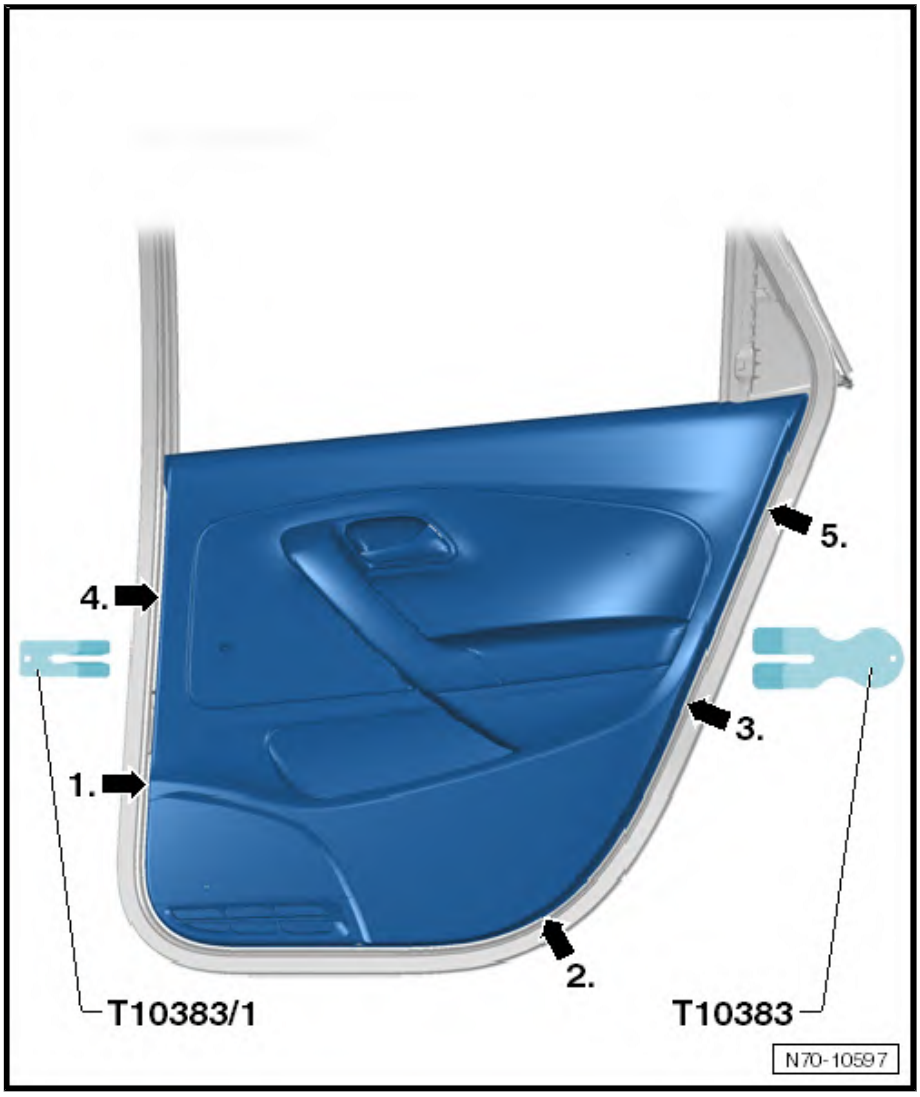
– Remove screws -2- (4,5 Nm).
– Turn the nut -4 - by 90° at the bottom side using the open-end spanner SW 10 and unlock the catch peg.
– On vehicles with window cranks, remove the window crank. Slide the spacer ring -1- in -direction of arrow- and detach the window crank from the drive.



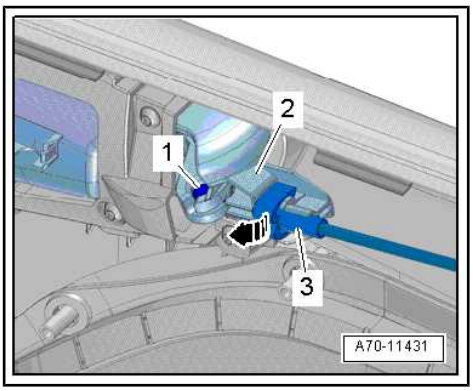
Caution

When releasing the door trim panel, there is the risk that damage may occur on the fixing elements! To prevent this, the specified location and order of the clip connections to be loosened must absolutely be kept when removing the door trim panel!

– Loosen the door trim panel in the -specified order - out of the clip connections. To do this, e.g. use the wide plastic wedge - T10383 / 1, T10383- .



– Pull the door trim panel towards the top and out of the window channel.
– Push the Bowden cable -3- on the inside of the door trim panel out of the inner door control -2- in -direction of arrow- and unclip the end piece -1-.
– Disconnect the plug connections of the wiring looms from the door trim panel depending on the vehicle equipment.



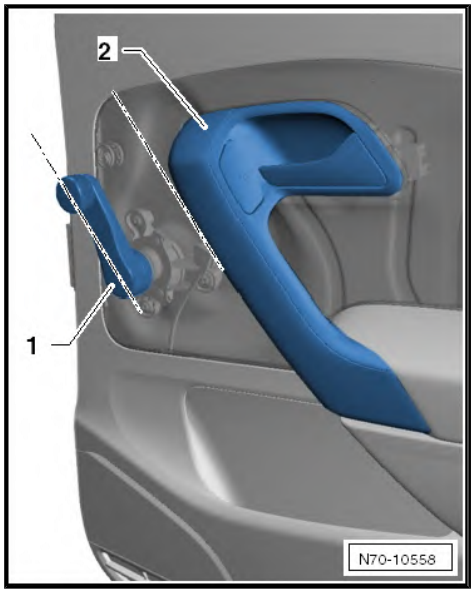
Installing

– The installation occurs in reverse order.

Note

Before the installation, check all the fixing elements for damage, if necessary replace.

– On vehicles with manual window lifters, the installation position of the window crank -1- on a closed crank pulley is parallel to the pull handle -2-.
– The deviation of the window cranks to each other may only be a maximum of 6 °.

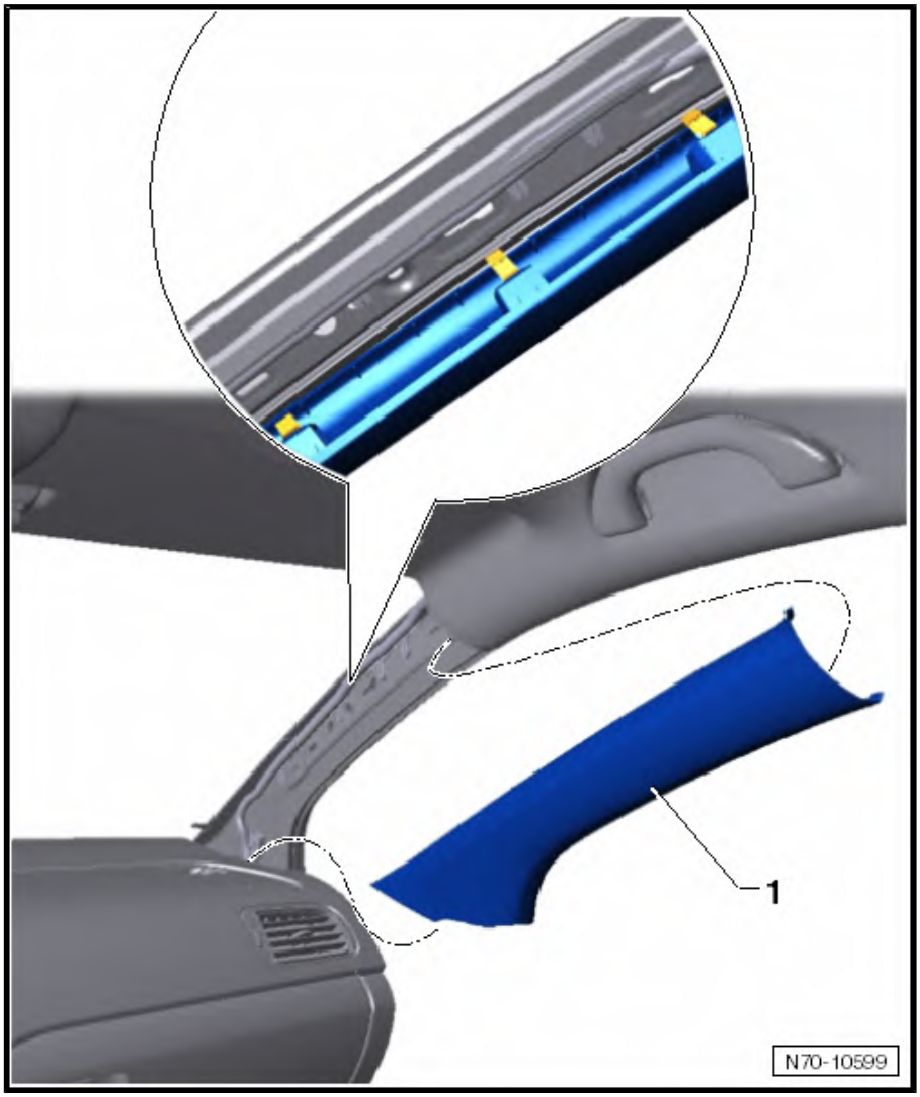


3 Trim panels of pillars

3.1 Removing and installing top trim panel of pillar A

Removing

– Unclip the trim panel of the A pillar -1- out of the supports of the A pillar starting at the top.



Installing

– The installation occurs in reverse order.

Note

- *Before the installation, check all the fixing elements for damage, if necessary replace.*
- *Ensure that the trim panel is located in the double-braided strip of the door seal after the installation.*

3.2 Removing and installing bottom trim panel of pillar A on the driver's side

Removing

– Remove the operating lever for the front flap (Pos. 1) ⇒ “1.9.2 Removing and installing”, page 31 .

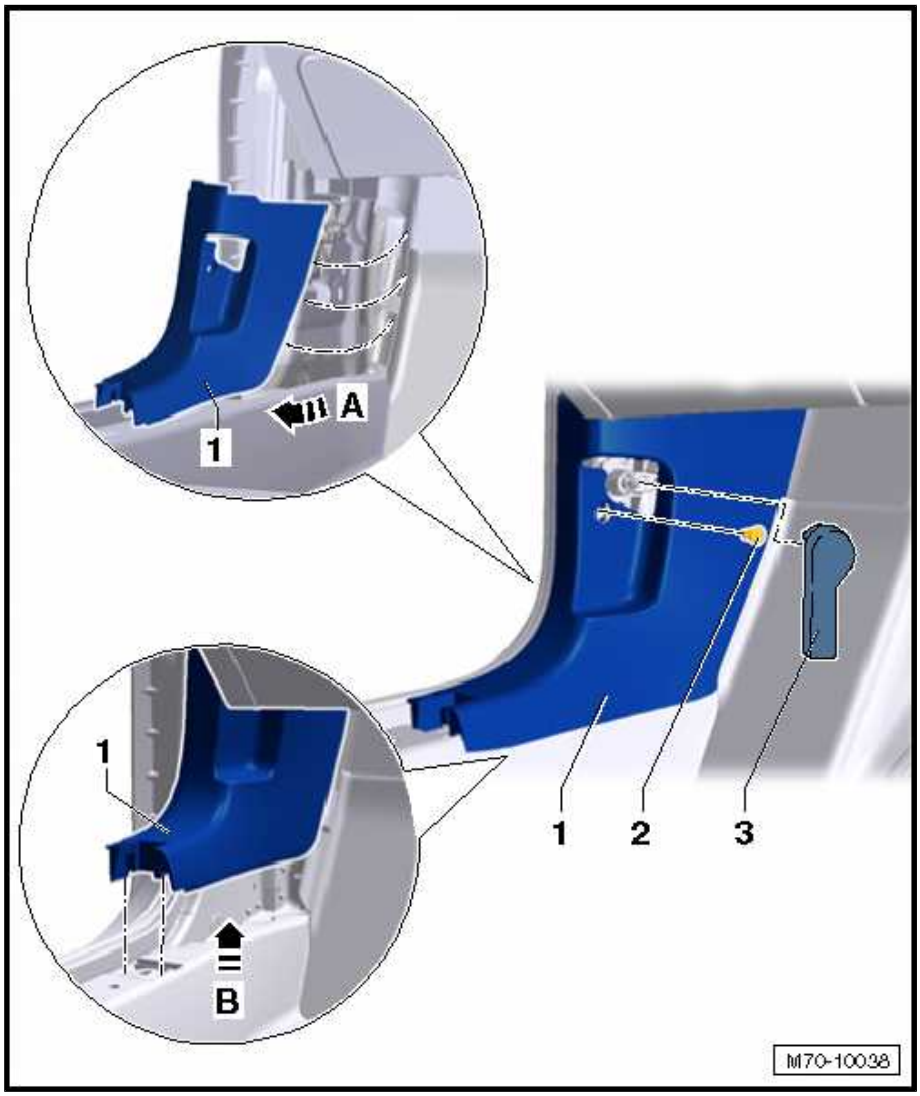
– Unclip the door sill panel in the transition area to the trim panel of the A pillar out of the supports in the body.

– Remove the straddling dowel -2-.

– Pull the trim panel -3- towards the inside and out of the supports in the body.

Note

Before the installation, check the straddling dowel -2- for damage, replace if necessary.



Installing

– The installation occurs in reverse order.

Note

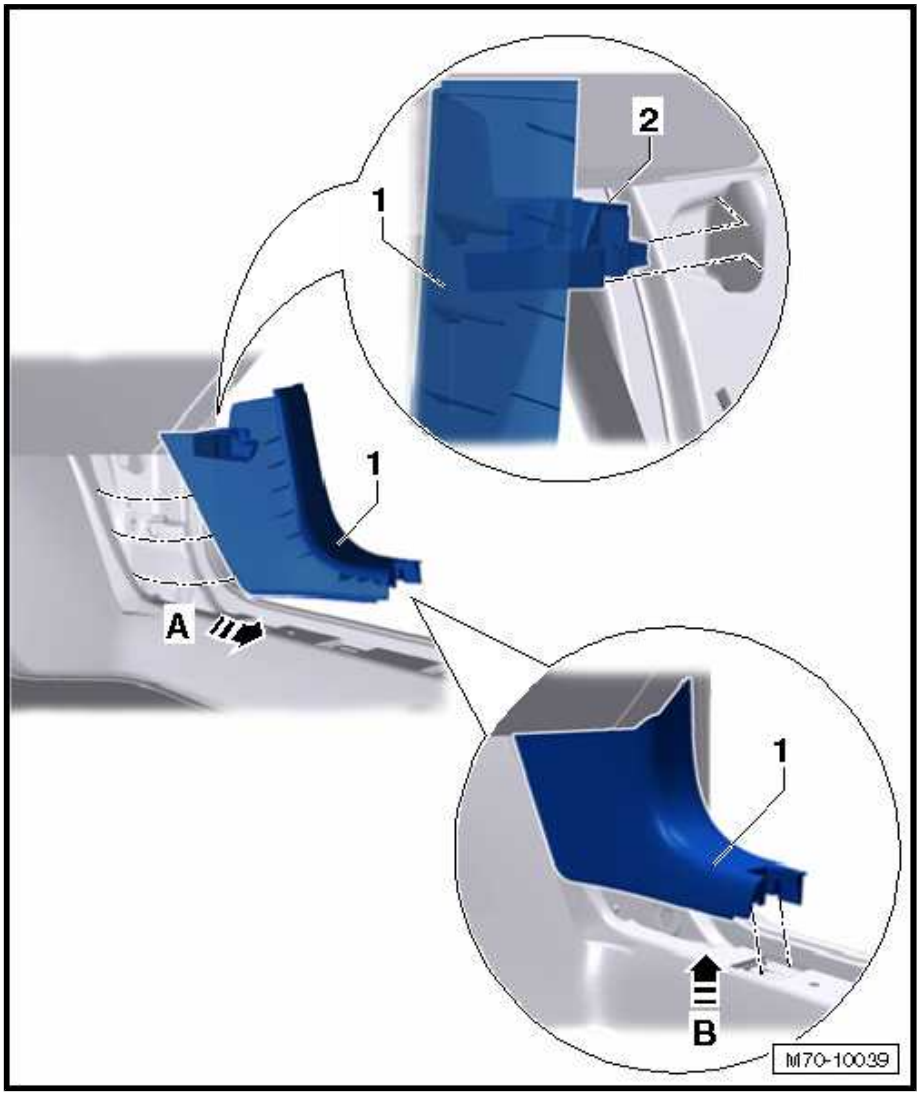
Ensure that the trim panel is located in the double-braided strip of the door seal after the installation.

3.3 Removing and installing bottom trim panel of pillar A on the front passenger side

Removing

– Unclip the door sill panel in the transition area to the trim panel of the A pillar out of the supports in the body.

– Release the catches -1- and pull the trim -2- towards the inside and out of the supports in the body.



Installing

– The installation occurs in reverse order.

Note

- *Before the installation, check all the fixing elements for damage, if necessary replace.*
- *Ensure that the trim panel is located in the double-braided strip of the door seal after the installation.*

3.4 Removing and installing top B-pillar trim panel

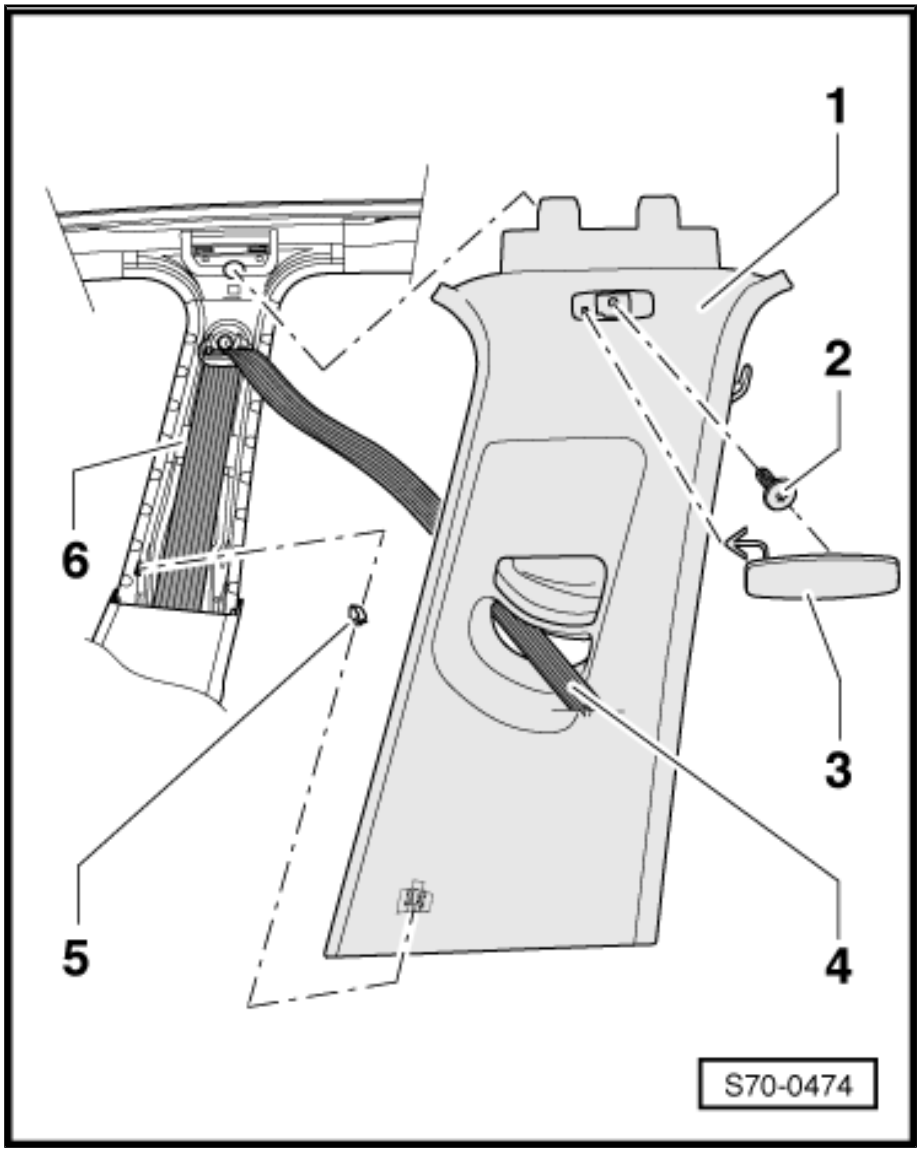
Removing

– Unclip the cover -3- for the screw marked or unmarked with “airbag” (depending upon vehicle equipment).

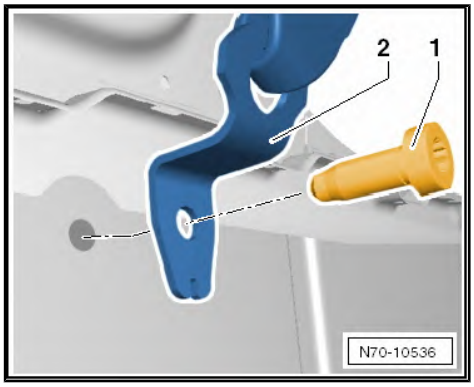
– Remove screw -2- (1,5 Nm).

– Loosen the trim panel -1- out of the catches -5- and remove it from the B pillar -6-.

– Push the trim panel -1- at the top end out of the supports in the roof.



– Release screw for front seat belt -1- (40 Nm).
– Pull the seat belt through the opening in the trim panel.
– Remove the trim panel from the vehicle.



Installing

– The installation occurs in reverse order.
– After attaching the trim panel, ensure that the trim panel is located in the double-braided strip of the door seal.

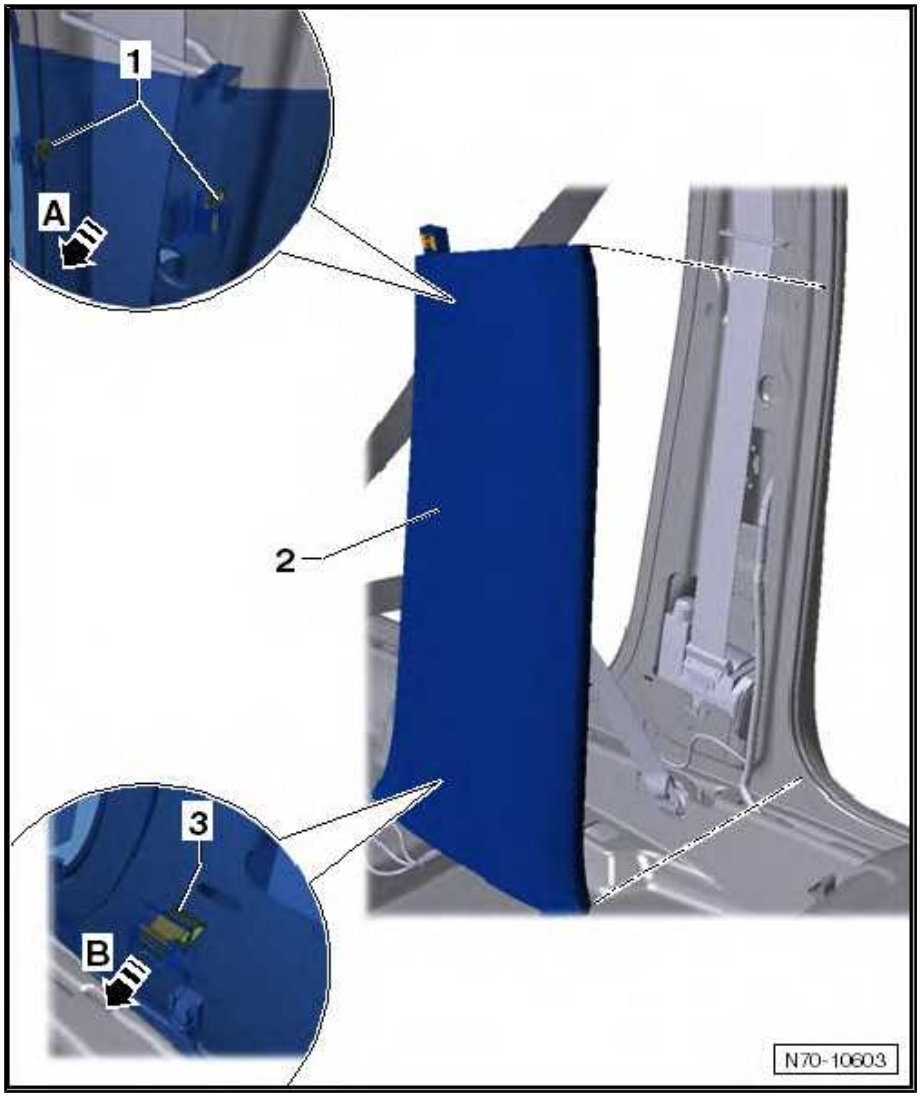
Note

- *Before the installation, check all the fixing elements for damage, if necessary replace.*
- *On vehicles with seat belt height adjuster, ensure before fastening that the seat belt height adjuster is located at the shell and the slider of the seat belt height adjuster is in the top position at the trim panel.*
- *After the installation has been performed, carry out a functional test of the seat belt height adjuster.*
- *Make sure that the seat belt is correctly positioned and has unobstructed movement.*

3.5 Removing and installing bottom B-pillar trim panel

Removing

– Run the seat belt -2- through the opening in the trim panel.
– Slacken the bottom trim panel -2- at the top end out of the catch -1- in -direction of arrow A-.
– Slacken the bottom trim panel -2- at the bottom end out of the catch -3- in -direction of arrow B-.



Installing

– The installation occurs in reverse order.

Carry out the following tasks

– After installing the trim panels, ensure that the trim panels are located in the double-braided strip of the door seal.

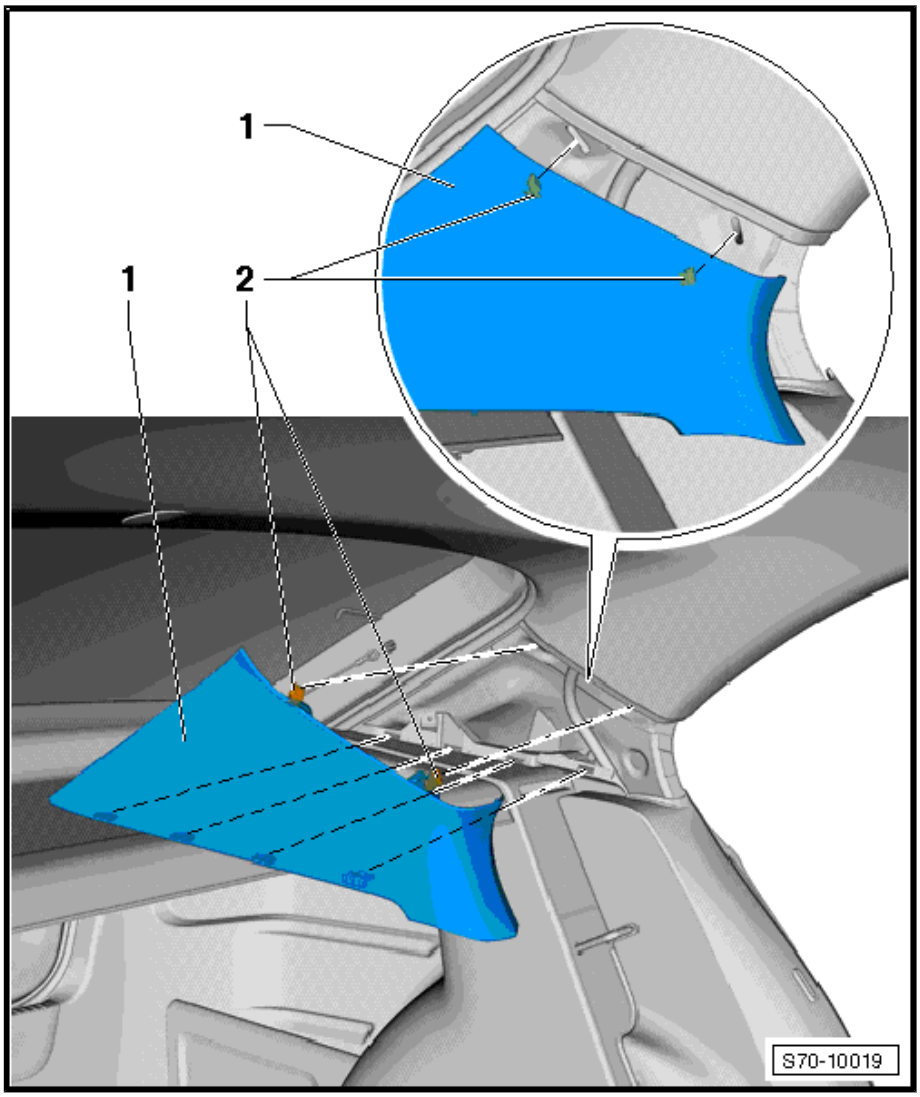
– Check whether the bottom B-pillar trim panel and the door sill panel are clipped together and fitted.

Note

- *Before the installation, check all the fixing elements for damage, if necessary replace.*
- *On vehicles with seat belt height adjuster, ensure before installing that the seat belt height adjuster is located at the shell and the slider of the seat belt height adjuster is in the top position at the trim panel.*
- *After the installation has been performed, carry out a functional test of the seat belt height adjuster.*
- *Make sure that the seat belt is correctly positioned and has unobstructed movement.*

3.6 Removing and installing trim panel of pillar C

Removing



– Loosen the C-pillar trim panel -1- in the front area out of the double-braided strip of the door seal.
– Loosen from the tailgate seal in the rear area.
– Loosen the trim panel from the retaining clips -2-.
– Push the guides of the C-pillar trim panel out of the luggage compartment trim panel and take the trim panel out of the vehicle.

Installing

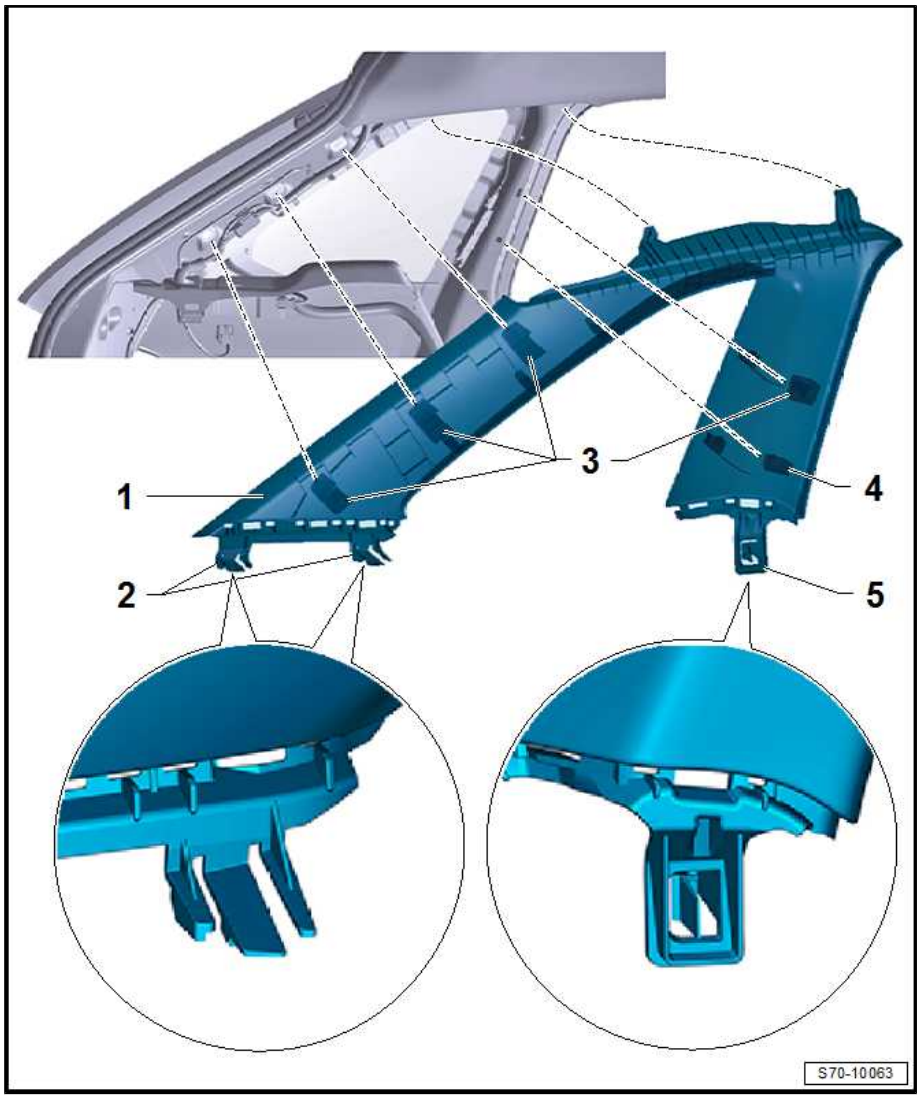
– The installation occurs in reverse order.

Note

Before the installation, check all the fixing elements for damage, if necessary replace.

– After installing the trim panel, ensure that the trim panel is located in the double-braided strip of the door seal.

3.7 Removing and installing C and D pillar trim panels (Spaceback)



Removing

– Remove luggage compartment side trim panel ⇒ “6 Removing and installing side luggage compartment trim panel”, page 281 .

– Release the catches -2-.

– Release catch -5-.

– Unclip brackets -4-.

– Unclip brackets - 3 -.

– Unscrew from guide from the guide bolts - 4 -.

– Push downwards out of the openings in the upper area of the trim.

Installing

– The installation occurs in reverse order.

3.8 Door sill panel and wheel house trim panel

3.8.1 Removing and installing door sill panel

Removing

– Remove the seat bench
⇒ “2.1 Removing and installing the rear seat bench”, page 295 .

– Remove wheel house trim panel
⇒ “3.8.2 Removing and installing wheel house trim panel”, page 272 .

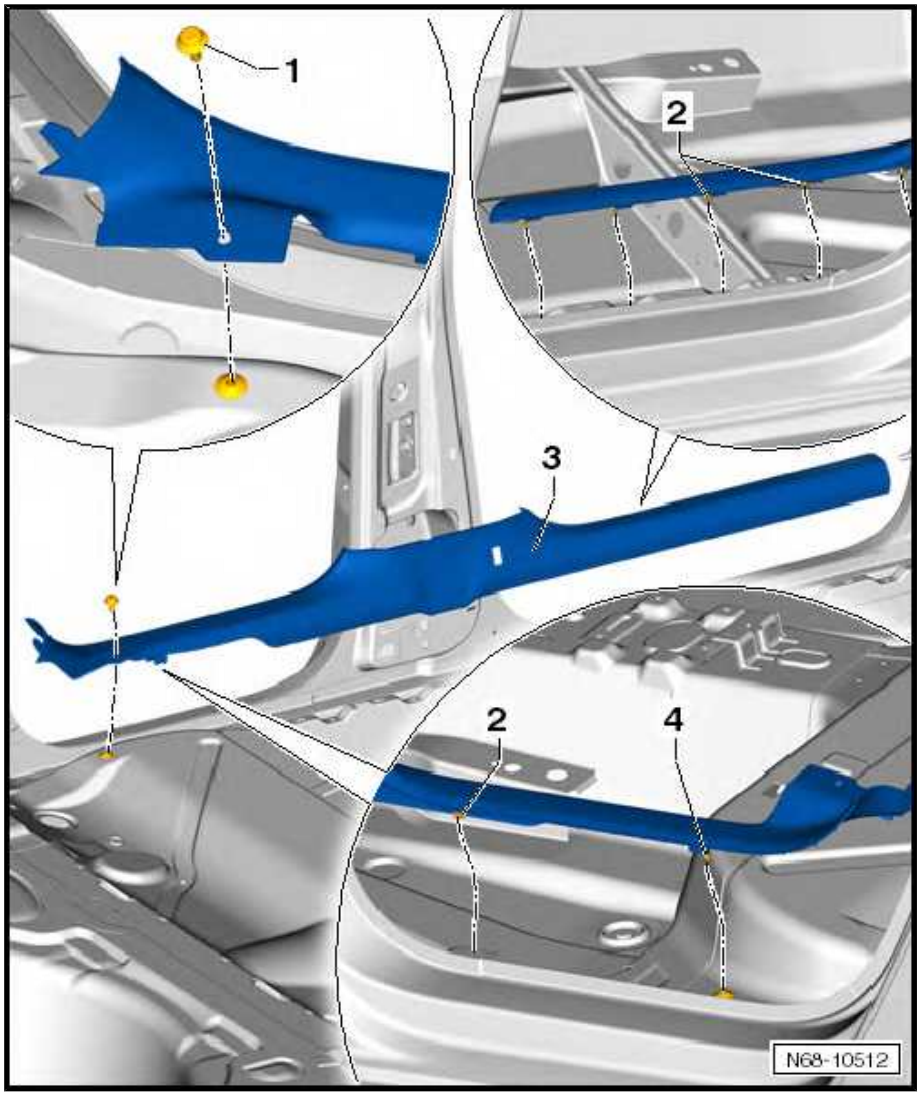
– Remove clips -1-.

– In the rear area, unclip the clip - 4 - and the retaining clip - 2 - of the door sill panel - 3 -.

– Loosen the door sill panel -3- from the bottom trim panel of B-pillar.

– In the front area, unclip all the retaining clips - 2 - of the door sill panel - 3 -.

– Remove the door sill panel - 3 - from the vehicle.



Installing

– The installation occurs in reverse order.

– Ensure that the door sill panel is placed in the double-braided strip of the door seal.

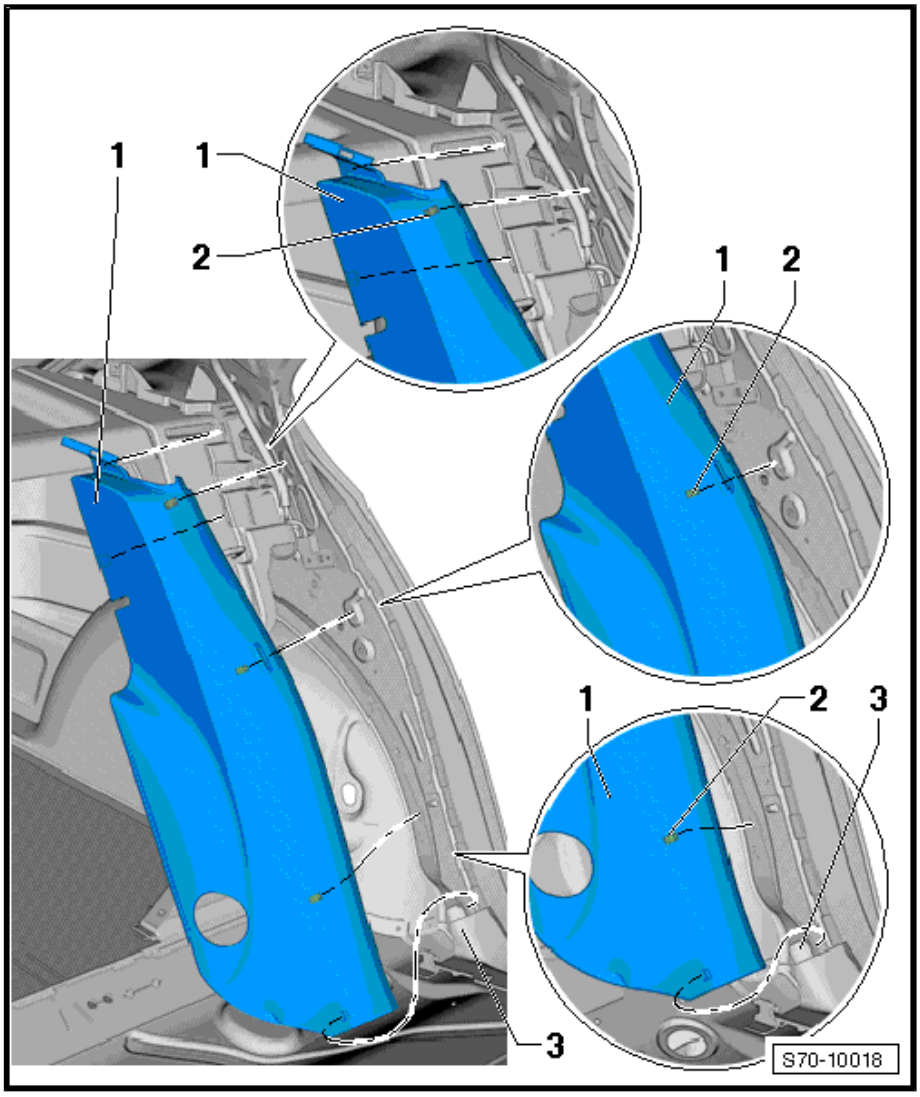
Note

Before the installation, check all the fixing elements for damage, if necessary replace.

3.8.2 Removing and installing wheel house trim panel

Note

To provide a clearer illustration, the seat bench and the backrest are not shown in the illustration.



Removing

– Removing the rear seat bench
⇒ “3 Removing and installing backrests”, page 298 .

– Remove top trim panel of pillar C
⇒ “3.6 Removing and installing trim panel of pillar C”, page 269 .

– While doing so, loosen the retaining clips -2- out of the supports of the body.

– Take the wheel house trim panel -1- out of the vehicle.

Installing

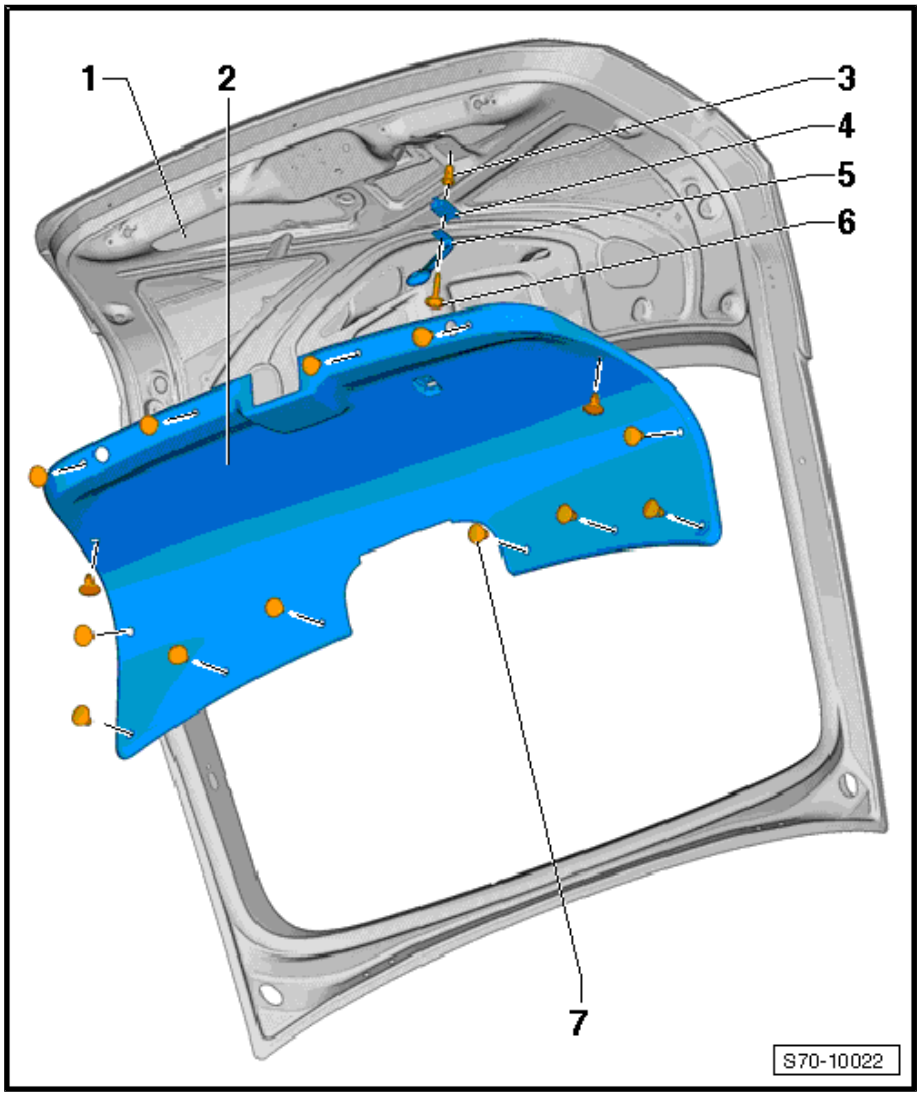
– The installation occurs in reverse order.

Note

- *Before installation, check all the fixing elements for damage, replace if necessary.*
- *Ensure that the wheel house trim panel is placed in the double-braided strip of the door seal after the installation.*

4 Tailgate trim panel

4.1 Removing and installing tailgate trim panel



Removing

– Release the screw - 6 - (2.5 Nm) and remove the pull handle - 5 -.

– Remove cover for rear window wiper motor ⇒ Electrical System; Rep. gr. 92 .

– Unclip the plastic clips in sequence.

– Remove the trim panel from the vehicle.

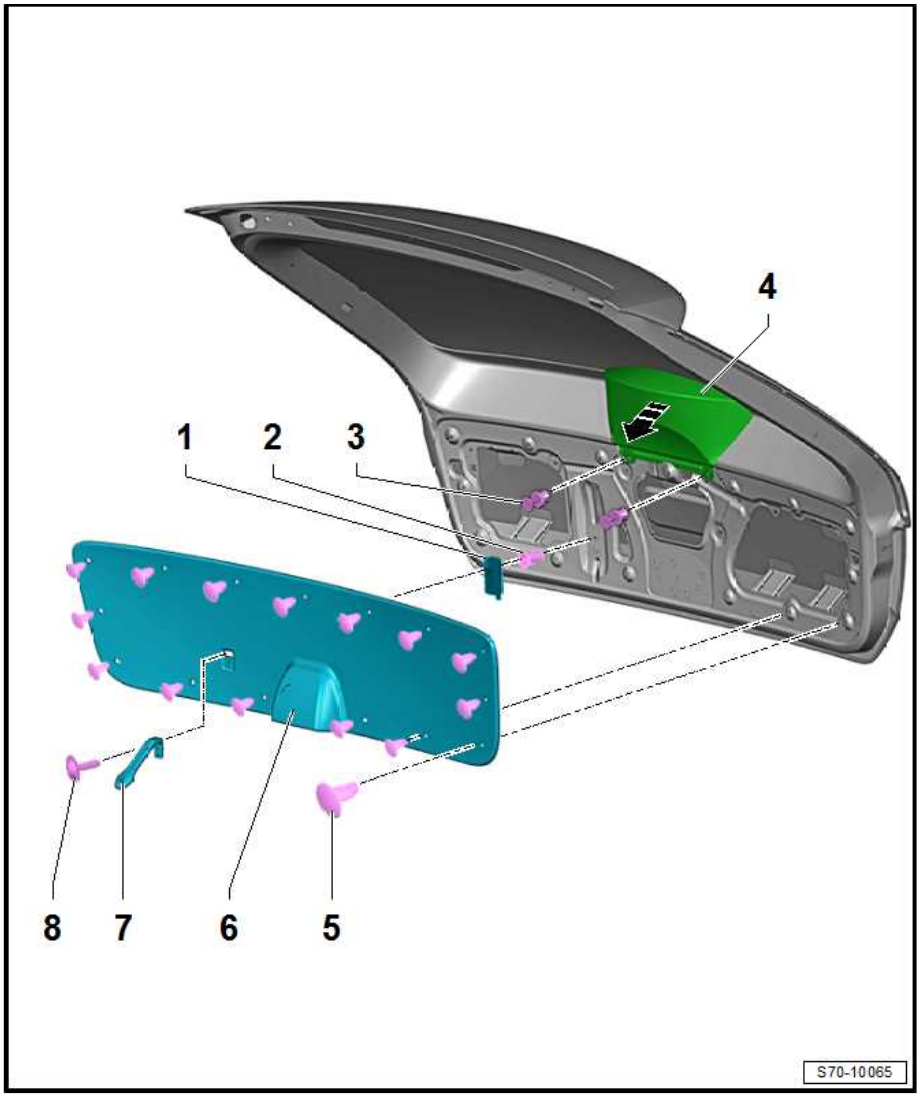
Installing

– The installation occurs in reverse order.

Note

Before the installation, check all the fixing elements for damage, if necessary replace.

4.2 Removing and installing the tailgate trim panel (Spaceback)



Removing

- Release the screw - 8 - (2.5 Nm) and remove the pull handle - 7 -.
- Unclip the plastic clips - 5 - in succession.
- Take the trim - 6 - out of the vehicle.
- Cover for wiper motor - 4 - .
- Expanding rivet - 3 -.
- Riveted nut - 2 - .
- Pull handle carrier - 1 - .

Installing

- The installation occurs in reverse order.

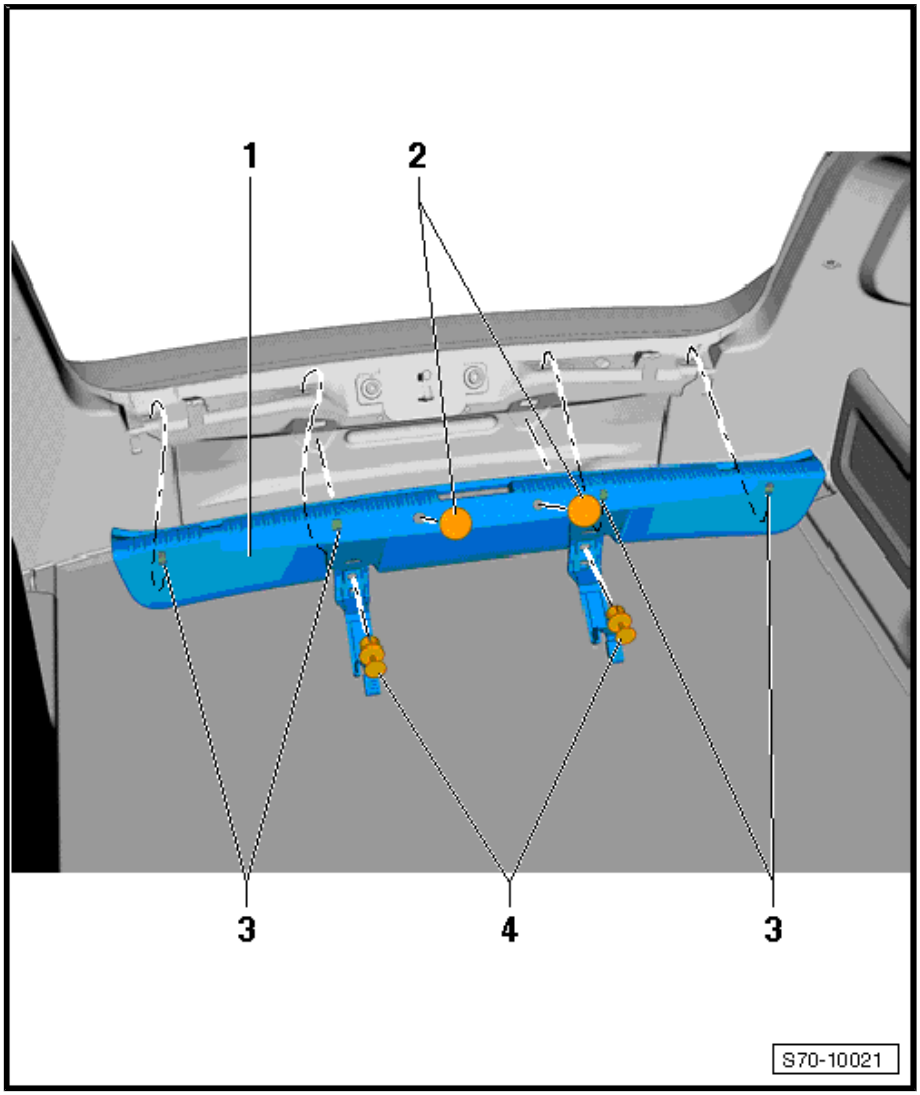
Note

Before the installation, check all the fixing elements for damage, if necessary replace.

5 Luggage compartment trim panels

5.1 Removing and installing the tailgate/luggage compartment cover

Removing



– Fold up the base of the luggage compartment floor.
– Removing body-bound rivet -4-.
– Do not remove caps for screws -2-. They only cover the screws for the latch strikers of the tailgate.
– Loosen retaining clips -3-.
– Remove tailgate/luggage compartment cover -1- upwards from lock carrier.

Installing

– The installation occurs in reverse order.

Note

Before the installation, check all the fixing elements for damage, if necessary replace.

– Ensure that the tailgate/luggage compartment cover is located in the double-braided strip of the tailgate seal after the installation.

5.2 Removing and installing top part of side luggage compartment trim panel

1 - Top part of side luggage compartment trim panel.

Removing

– Remove luggage compartment cover.

– Remove the rear deflection fitting ⇒ "1.5 Removing and installing the outer rear seat belts", page 216 .

– Remove top trim panel of pillar C ⇒ "3.6 Removing and installing trim panel of pillar C", page 269 .

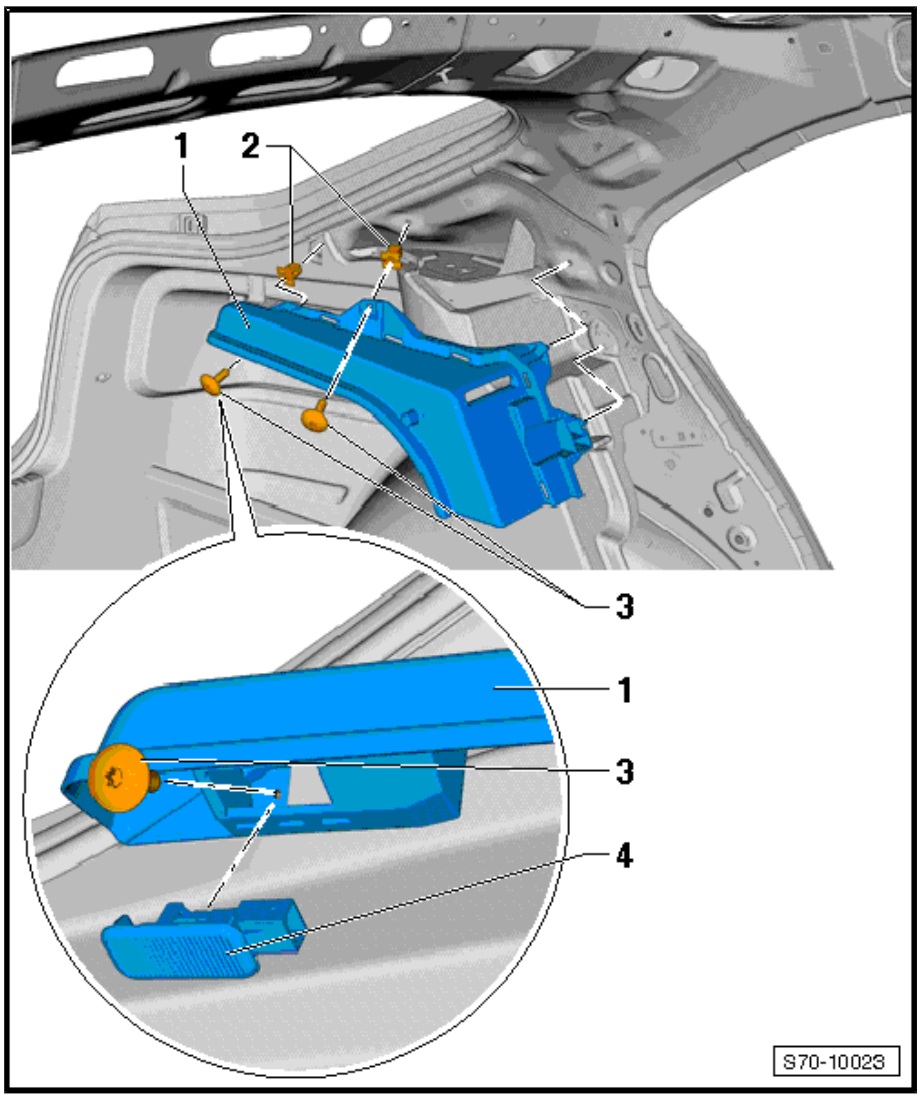
– Remove wheel house trim panel ⇒ "3.8.2 Removing and installing wheel house trim panel", page 272 .

– Remove luggage compartment light - 4 - ⇒ Electrical System; Rep. gr. 96 (left side only).

– Unscrew screws -3-.

– Unclip the trim panel out of the supports of the body.

– Run the seat belt through the trim panel.



Installing

– The installation occurs in reverse order.

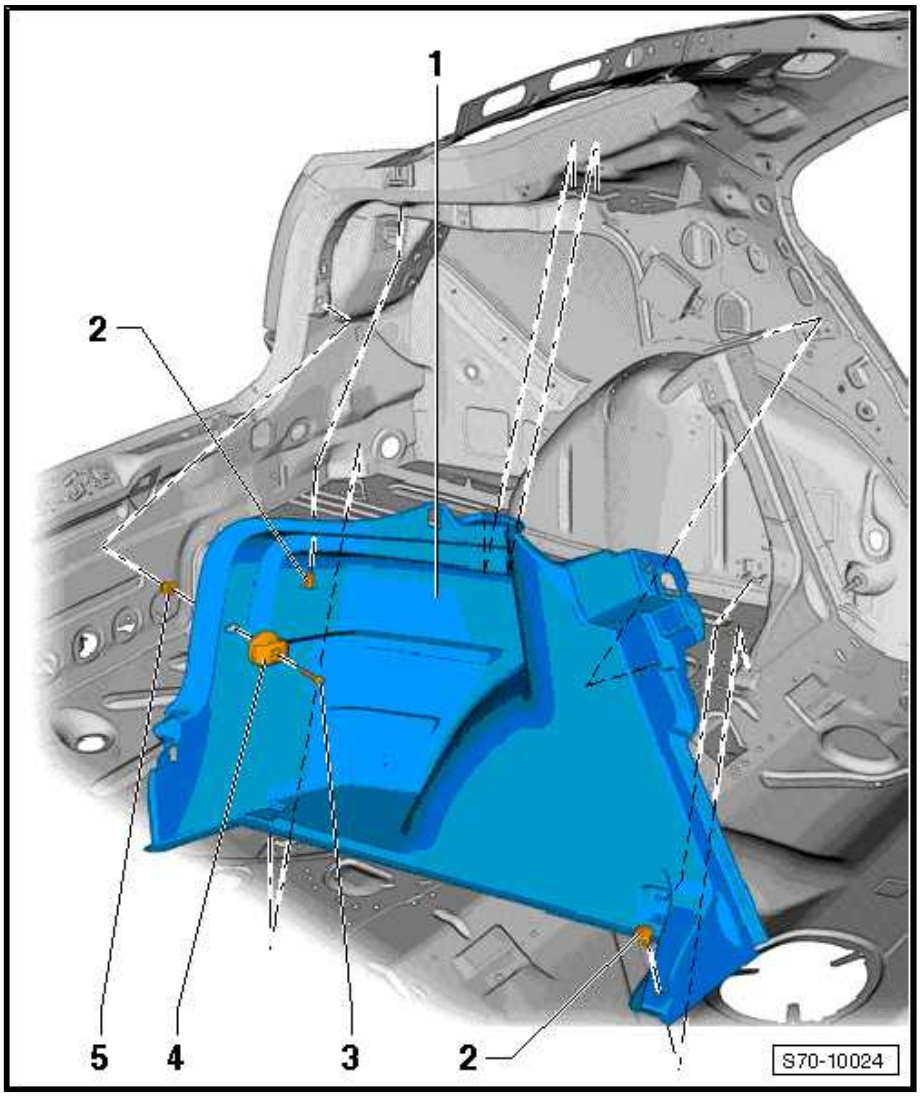
2 - Expanding nut

3 - Screw

❑ Tightening torque - 2.5 Nm.

4 - Luggage compartment light

5.3 Removing and installing side luggage compartment trim panel



Removing

- Remove the tailgate/luggage compartment cover
  ⇒ “5.1 Removing and installing the tailgate/luggage compartment cover”, page 277 .
- Remove the seat bench
  ⇒ “2.1 Removing and installing the rear seat bench”, page 295 .
- Removing backrest
  ⇒ “3 Removing and installing backrests”, page 298 .
- Remove top part of side luggage compartment trim panel
  ⇒ “5.2 Removing and installing top part of side luggage compartment trim panel”, page 278 .
- Unclip retaining clips - 2 - from the trim panel - 1 -.
- Remove screw -3- (1.2 Nm) for fixing hooks -4-.
- Remove the trim panel -1- in the front area from the locking clamp and the backrest frame.
- Loosen the trim panel -1- towards the inside out of the support.

– Take the trim panel -1- out of the luggage compartment.
– Position -5- expanding nut.

Installing

– The installation occurs in reverse order.

Note

Before the installation, check all the fixing elements for damage, if necessary replace.

6 Removing and installing side luggage compartment trim panel

1 - Fixing hooks

2 - Screw - 2.5 Nm

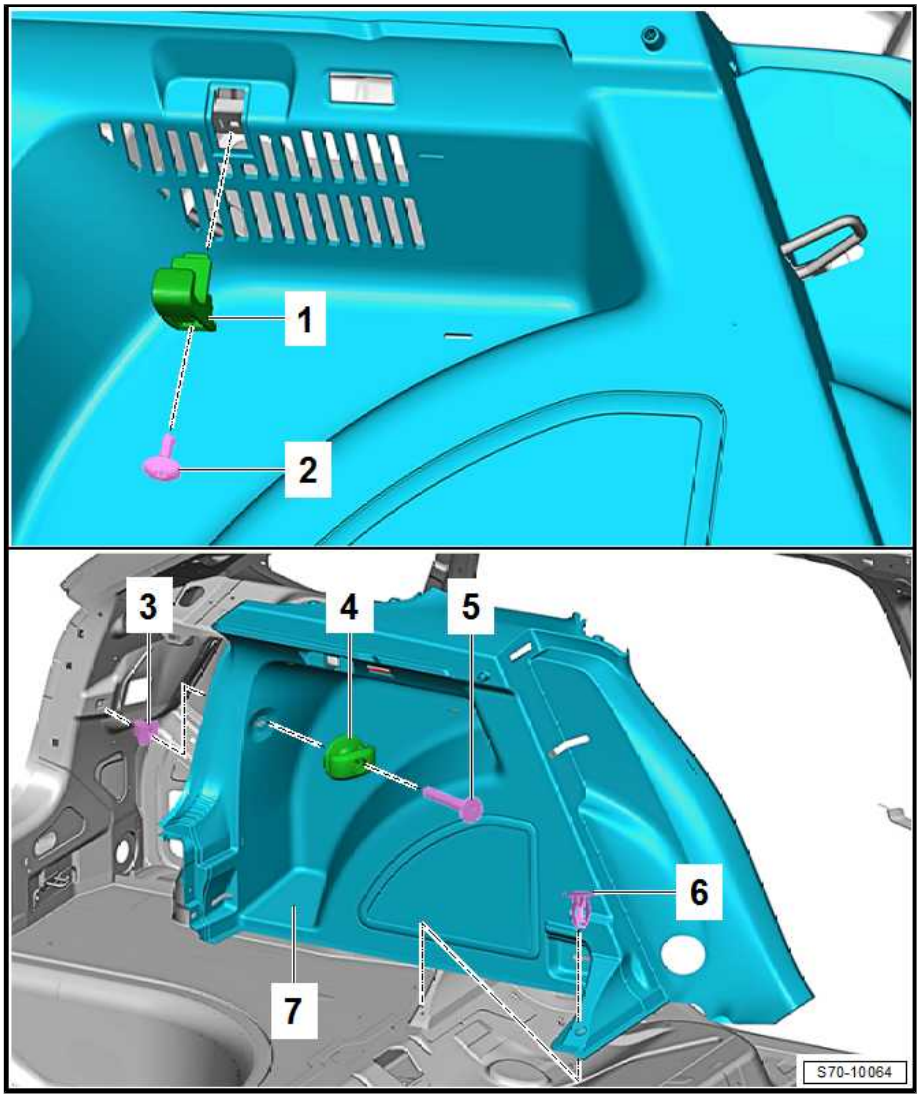
3 - Expanding nut

4 - Fixing hooks

5 - Screw - 1.2 Nm

6 - Retaining clip

7 - Side luggage compartment trim panel



Removing

- Removing the rear seat bench ⇒ “3 Removing and installing backrests”, page 298 .
- Remove rear seat bench ⇒ “2.1 Removing and installing the rear seat bench”, page 295 .
- Remove the tailgate/ luggage compartment cover ⇒ “5.1 Removing and installing the tailgate/luggage compartment cover”, page 277 .
- Remove the rear deflection fitting ⇒ “1.5 Removing and installing the outer rear seat belts”, page 216 .
- Remove ⇒ Item 6 (page 281) clip.
- Remove fixing hooks ⇒ Item 4 (page 281) .
- Remove fixing hooks ⇒ Item 1 (page 281) .
- Unclip the trim panel.
- Disconnect the plug connection form the luggage compartment light of 12 V socket (depending in the equipment installed in the vehicle).
- Run the seat belt through the trim panel.
- Remove the trim panel from the vehicle.

Installing

- The installation occurs in reverse order.

7 Moulded headliner

7.1 Removing and installing moulded headliner

Removing

– Switch off the ignition and all electrical components.

– Removing sun visors
⇒ “2.6 Removing and installing the sun visor”, page 208 .

– Remove the top trim panel of the pillar A
⇒ “3.1 Removing and installing top trim panel of pillar A”, page 263 .

– Loosen the top trim panel of pillar B
⇒ “3.4 Removing and installing top B-pillar trim panel”, page 266 .

– Remove the trim panels of C-pillar
⇒ “3.6 Removing and installing trim panel of pillar C”, page 269 .

– Remove the recessed handles of the roof
⇒ “3.1 Removing and installing the recessed handles of the roof”, page 210 .

– Remove top parts of side luggage compartment trim panel
⇒ “5.2 Removing and installing top part of side luggage compartment trim panel”, page 278 .

– Fold back backrests.

– Put the steering wheel into the lowest position by means of the adjustment functions.

Vehicles fitted with a manual gearbox

– Engage the “2nd gear” with the shift lever.

Vehicles with an automatic gearbox

– Select the driving position “S” with the selector lever.

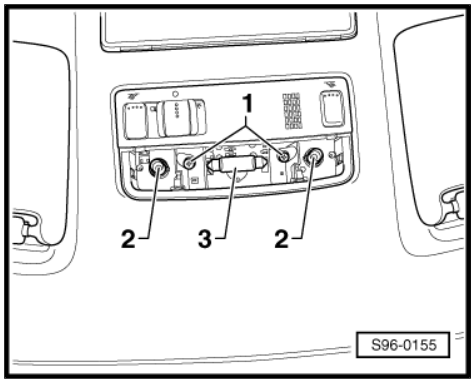
Vehicles with interior monitoring

– Disconnect the motion sensor and the sensor for vehicle inclination (depending upon vehicle equipment) ⇒ Electrical System; Rep. gr. 96 .

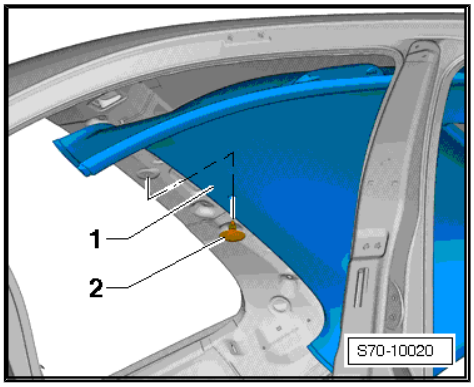
All vehicles

– Remove screws -2- (2 Nm) of front interior light ⇒ Electrical System; Rep. gr. 96 .

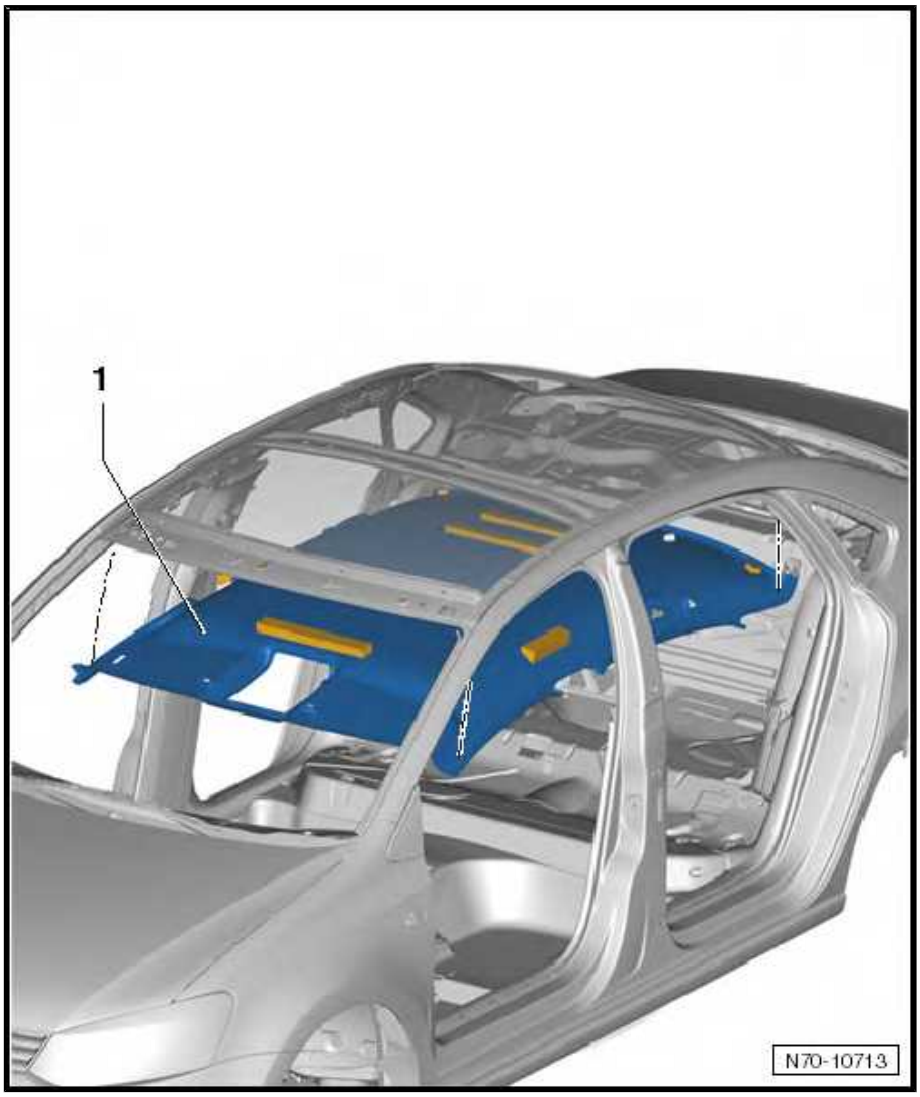
– Remove the rear interior light ⇒ Electrical System; Rep. gr. 96 .



– Loosen rear moulded headliner -1- and unclip clip -2-.



– Loosen the moulded headliner -1- out of the door seals.
– Carefully lower the moulded headliner -1- with the assistance of a 2nd mechanic (risk of fracture).



– Remove the moulded headliner through the tailgate opening.

Installing

– The installation occurs in reverse order.

Note

Before the installation, check all the fixing elements for damage, if necessary replace.

– Ensure that the moulded headliner -1- is located in the double-braided strip of all the door seals after the installation.

7.2 Removing and installing the dampings and roof reinforcements

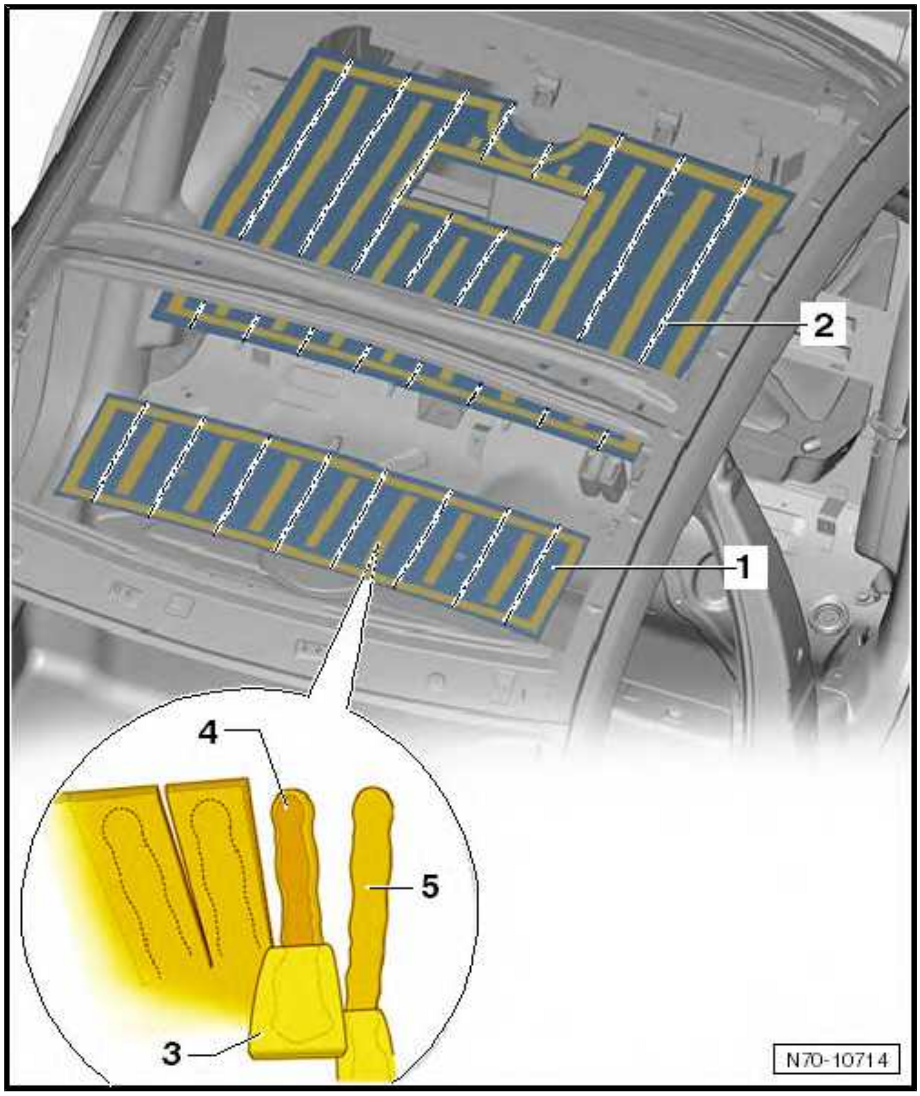
Removing

– Remove the moulded headliner ⇒ “7.1 Removing and installing moulded headliner”, page 282 .

– Cut the dampings and the roof reinforcements - 1 and 2 - into strips of approx. 9 cm width (Pos.3), using a carpet knife - (dotted lines) -.

– Detach the strips -3- from the roof.

– Cut back the glue residues - 4 -.



Installing

Note

When installing the dampings and the roof reinforcements, pay attention to the handling instructions of the glue.

– Use the hand pressure gun to apply the glue - D 190 MKD A3- on the front and rear -2- damping and roof reinforcements -1-.

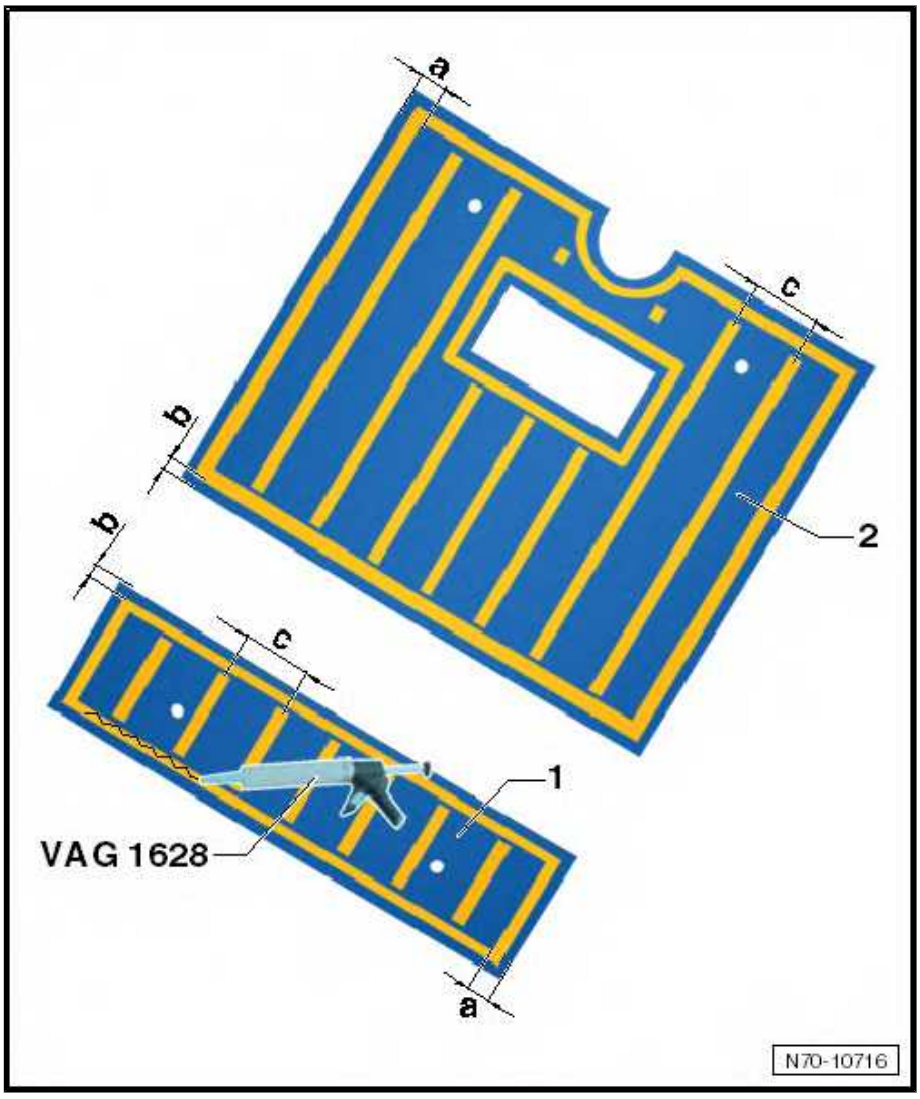
– Apply the glue beads according to the following dimensions:

♦ Dimension a = 33 mm ± 2 mm

♦ Dimension b = 25 mm ± 2 mm

♦ Dimension c = 92 mm ± 2 mm

– Fully press the dampings and the roof reinforcements -1 and 2- against the roof.



72 – Seat frames

1 Front seats

1.1 Removing and installing front seat

Removing

– Put the seat into the foremost position by means of the longitudinal adjustment.

– Unscrew the rear screws -1 and 3-.

– Put the seat into the rearmost position by means of the longitudinal adjustment.

– Unscrew the front screws -2 and 4-.

– Remove seat from vehicle.

Caution

If the seat is lifted out of the vehicle or transported, it must not be touched at the component parts. These include the belt buckle, the lever for the longitudinal seat adjustment, the seat height adjustment lever and the seat trim panels. This is necessary to avoid damage.

Installing

- Insert the seat into the corresponding hole in the floor via a centering pin - 5 - on the tunnel side.
- Put the seat into the rearmost position by means of the longitudinal adjustment.
- Tighten the front screw -4- on the tunnel side (40 Nm).
- Tighten the front screw -2- on the rail side (40 Nm).
- Put the seat into the foremost position by means of the longitudinal adjustment.
- Tighten the rear screw -3- on the tunnel side (40 Nm).
- Tighten the rear screw -1- on the rail side (40 Nm).

WARNING

If a thread in the support panel of the seat crossmember is damaged during the installation, it is not permitted to rework the damaged thread! In this case, the support panel of the seat crossmember must be replaced.

If there is a thread damage in the support panel of the seat crossmember:

– Replace the affected support panel of the seat crossmember ⇒ Body Repairs; Rep. gr. 51 .

1.2 Removing and installing the seat upholstery on the rail side (seat without height adjustment)

Removing

– Remove front seat ⇒ “1.1 Removing and installing front seat”, page 286 .

– Remove screw -1- (1 Nm).

– Lever the cap -5- out of the backrest adjustment lever -4-.

– Detach the backrest adjustment lever -4-.

Note

The backrest adjustment lever -4- cannot be detached from the adjustable axle without being destroyed.

– Open the bottom fixing latch of the seat upholstery -2- and press the support from the wire strap.

– Loosen the seat upholstery -2- from the seat rack -1- and remove the seat upholstery.

Installing

– The installation occurs in reverse order.

Note

Before the installation, check all the fixing elements for damage, if necessary replace.

1.3 Removing and installing the seat upholstery on the rail side (seat with height adjustment)

Removing

– Remove front seat
⇒ “1.1 Removing and installing front seat”, page 286 .

– Remove screw -1- (1 Nm).

– Lever the cap -5- out of the backrest adjustment lever -6-.

– Detach the backrest adjustment lever -6-.

Note

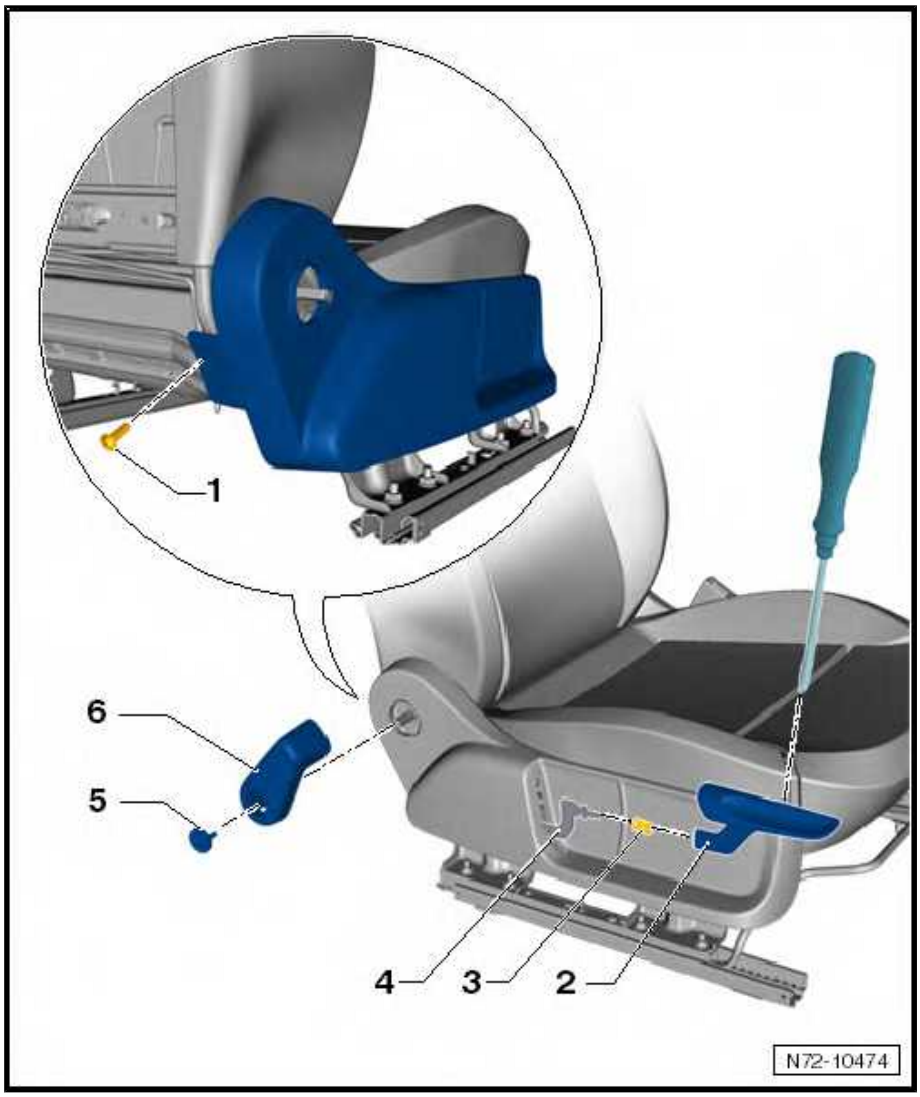
The backrest adjustment lever -6- cannot be detached from the adjustable axle without being destroyed.

– Pull up the handle -2- and press the metal tab of the retaining clip -3- towards the inside using a small screwdriver. Pull down the handle of the adjusting lever -4-.

Note

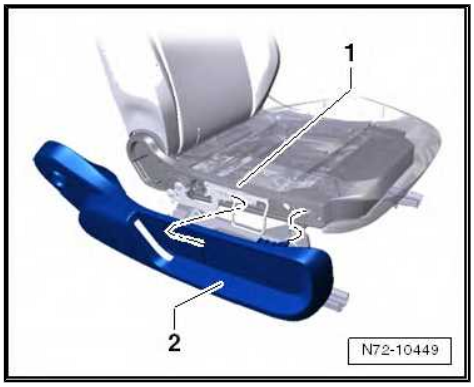
To provide a better overview, the retaining clip is shown in the illustration in its removed condition.

– Remove retaining clip -3- from adjusting lever -4-.



– Open the bottom fixing latch of the seat upholstery -2- and press the support from the wire strap.

– Loosen the seat upholstery -2- from the seat rack -1- and remove the seat upholstery.



Installing

– The installation occurs in reverse order.

Note

Before the installation, check all the fixing elements for damage, if necessary replace.

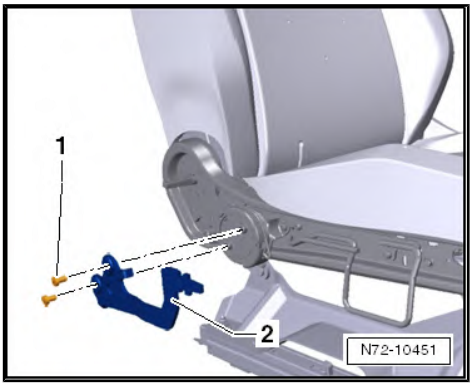
1.4 Removing and installing the operating lever of the seat height adjustment

Removing

– Remove front seat
⇒ “1.1 Removing and installing front seat”, page 286 .

– Remove the seat trim panel on the rail side (seat with height adjustment)
⇒ “1.3 Removing and installing the seat upholstery on the rail side (seat with height adjustment)”, page 289 .

– Release the screws -1- (4.5 Nm) and remove the operating lever -2-.



Installing

– The installation occurs in reverse order.

1.5 Removing and installing the seat trim panel on the tunnel side

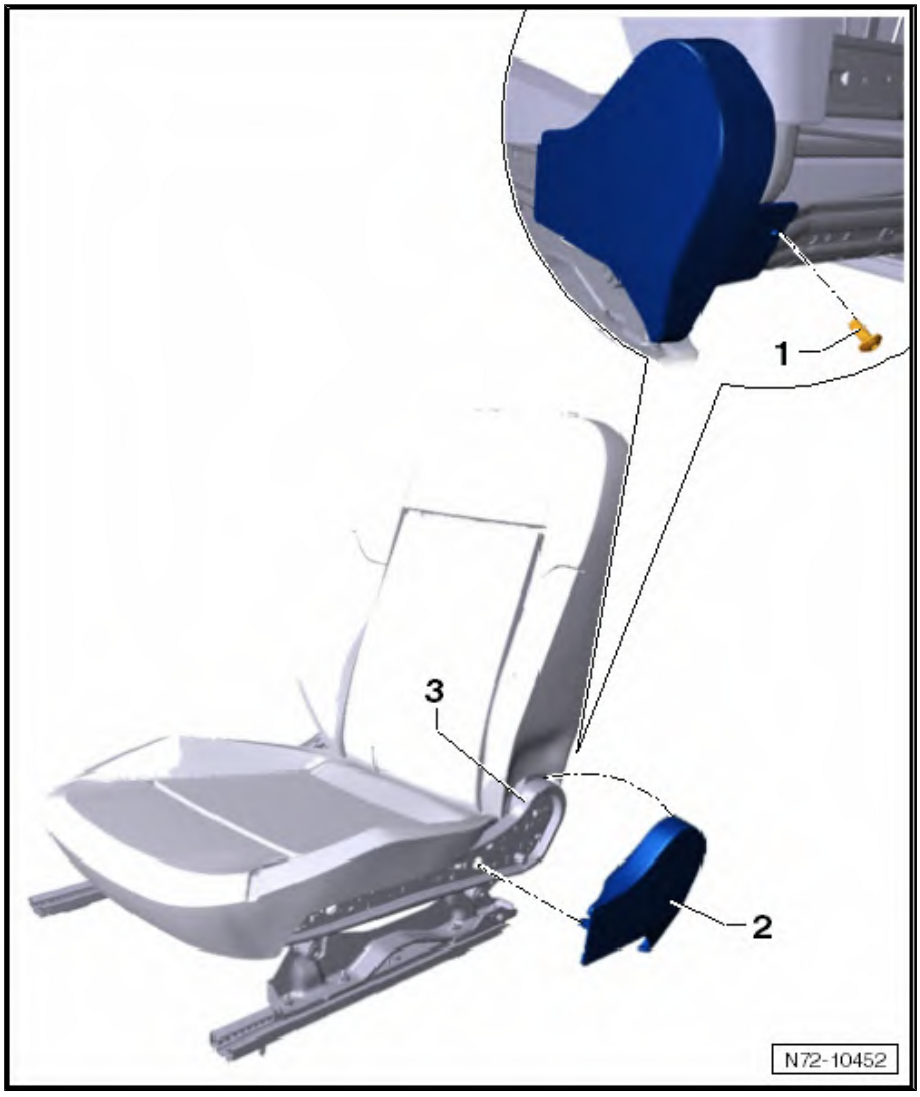
Removing

– Remove front seat
⇒ “1.1 Removing and installing front seat”, page 286 .

– Remove the front belt buckle
⇒ “1.3 Removing and installing the front seat belt buckle”, page 214 .

– Remove screw -1- (1 Nm).

– Loosen the seat upholstery -2- from the supports in the seat rack -3- and remove the seat upholstery.



Installing

– The installation occurs in reverse order.

1.6 Removing and installing the grip for the seat height adjuster

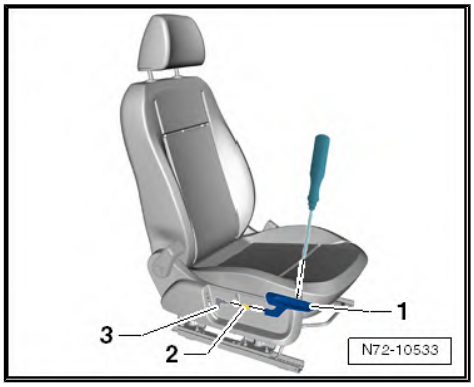
Removing

Note

To provide a better overview, the retaining clip is shown in the illustration in its removed condition.

– Pull up the handle -1- and press the metal tab of the retaining clip -2- towards the inside using a small screwdriver. Pull down the handle of the adjusting lever -3-.

– Remove retaining clip -2- from adjusting lever -3-.



Installing

Note

Before the installation, check the retaining clip -2- for damage, replace if necessary.

– The installation occurs in reverse order.

1.7 Removing the headrest guides

Removing

Note

To provide a better overview, the headrest guides are shown in their removed condition.

– Remove front seat
⇒ “1.1 Removing and installing front seat”, page 286 .

– Remove the front belt buckle
⇒ “1.3 Removing and installing the front seat belt buckle”, page 214 .

– Remove the seat trim panel on the tunnel side
⇒ “1.5 Removing and installing the seat trim panel on the tunnel side”, page 291 .

– Remove the seat trim panel on the rail side:

♦ Seat without height adjustment
⇒ “1.2 Removing and installing the seat upholstery on the rail side (seat without height adjustment)”, page 288 .

♦ Seat with height adjustment
⇒ “1.3 Removing and installing the seat upholstery on the rail side (seat with height adjustment)”, page 289 .

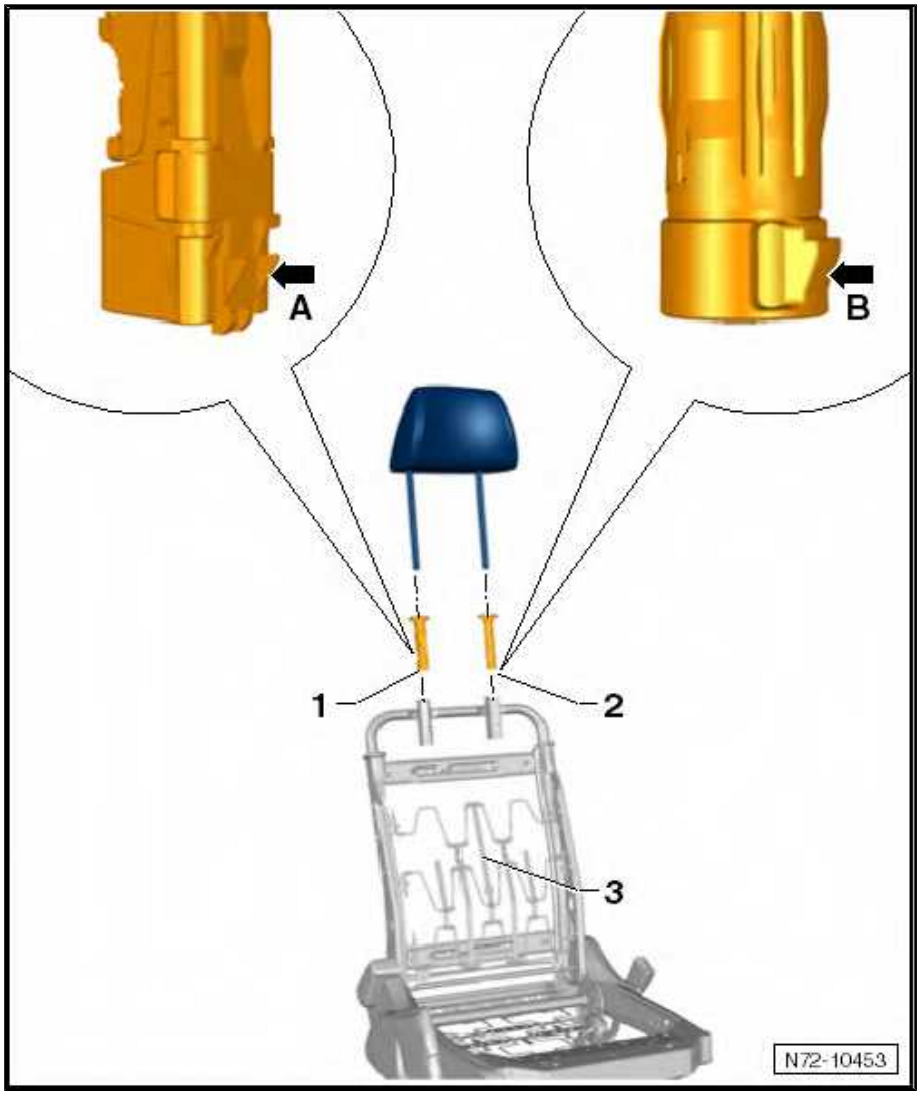
– Remove the cover and the upholstery of the front seat backrest
⇒ “1.3 Removing and installing the cover and the upholstery of the front seat backrest”, page 301 .

– Unlock the locking mechanism -arrow A- of the headrest guide with the button -1-.

– Pull the headrest guide out of the backrest - 3 - with the button - 1 -.

– Unlock the locking mechanism -arrow B- of the headrest guide -2-.

– Pull the headrest guide -2- out of the backrest -3-.



Installing

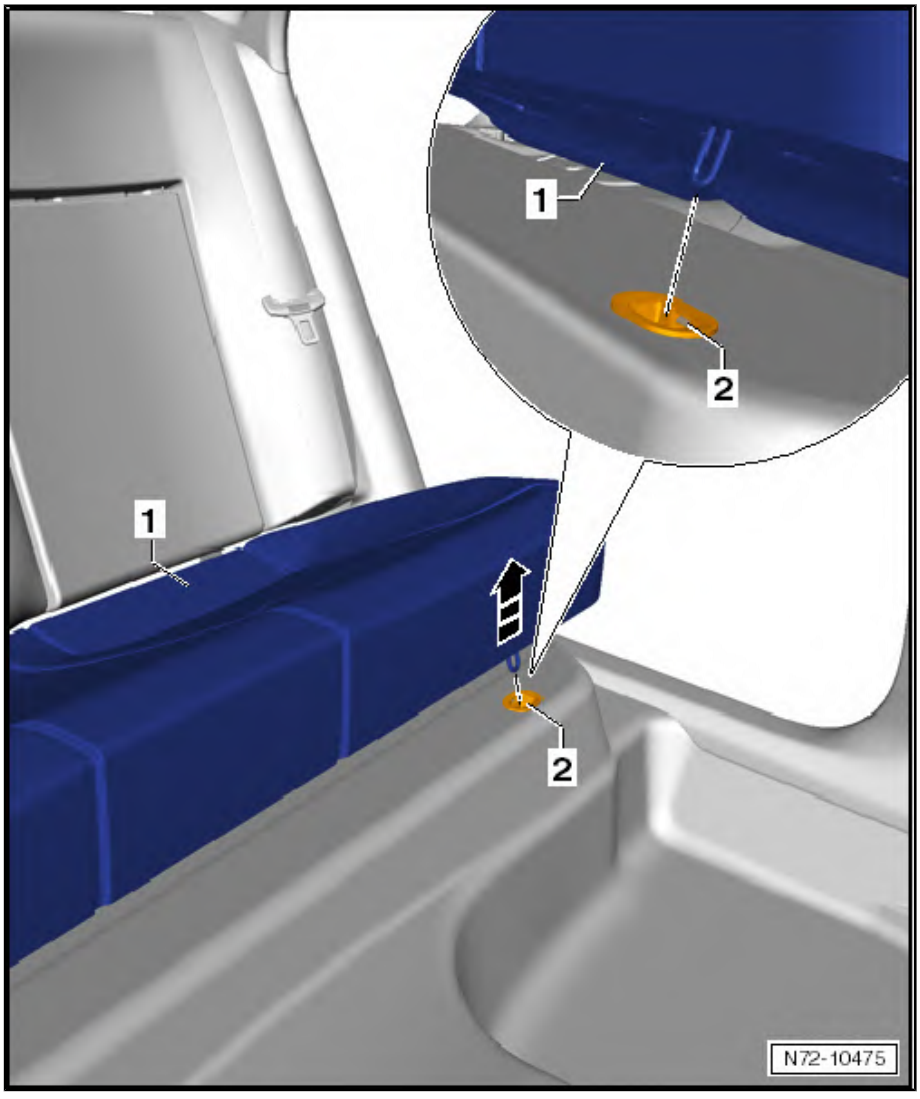
– The installation occurs in reverse order.

2 Rear seats

2.1 Removing and installing the rear seat bench

Removing

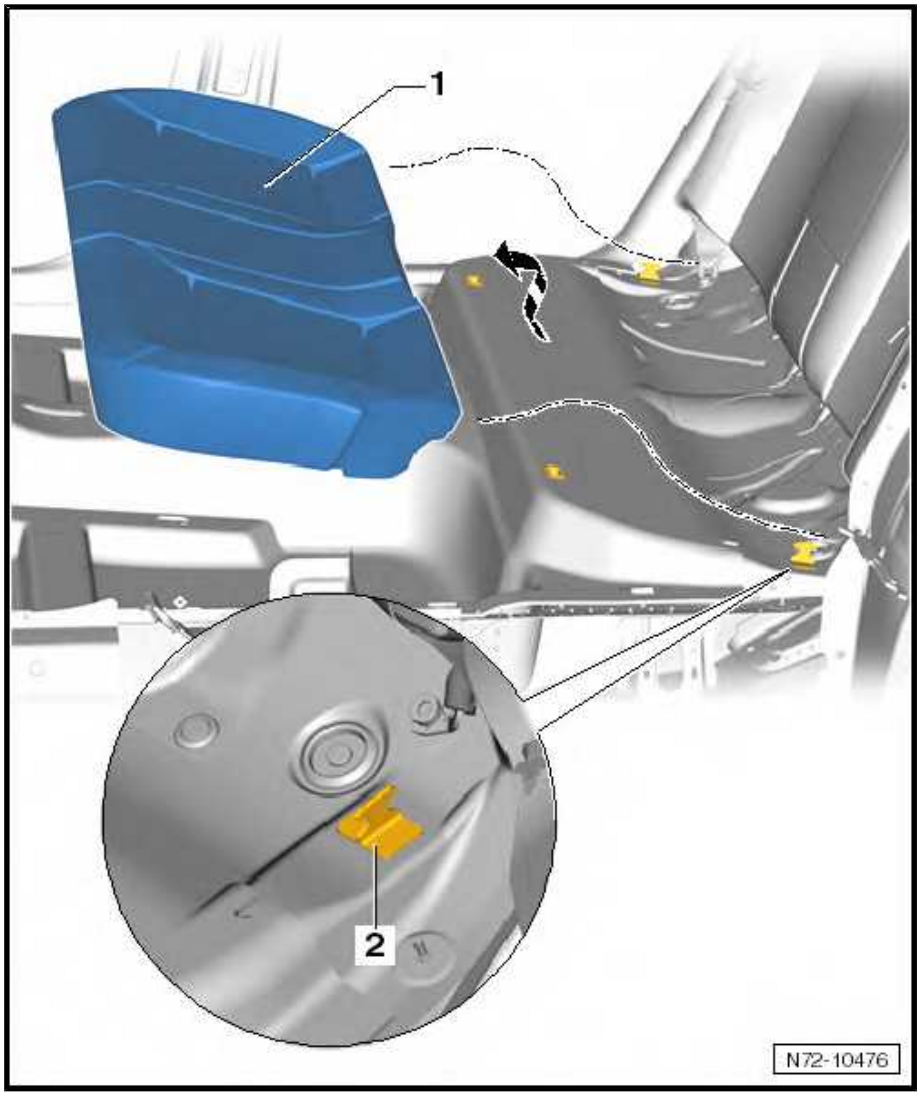
– Grip on both sides with both hands under the seat bench - 1 - in the area of the mounting grommet - 2 - and pull up forcefully and with a sudden motion in the -direction of arrow-.



– Guide the seat bench -1- in -direction of arrow- on both sides out of the crash hooks -2- on the left and right.

– Disconnect the plug connections for heating prior to removing the seat bench (depending on the vehicle equipment).

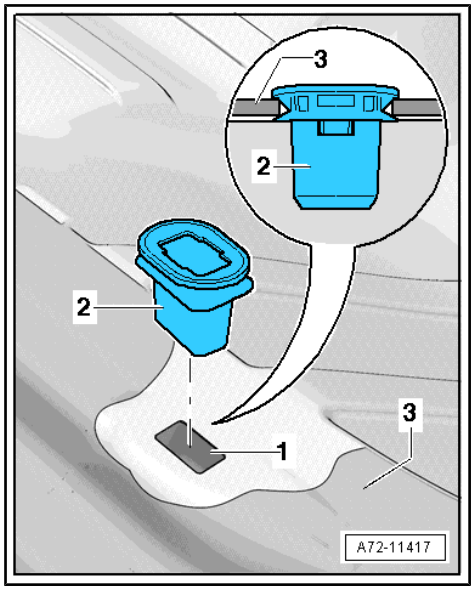
– Take the seat bench -1- out of the vehicle.



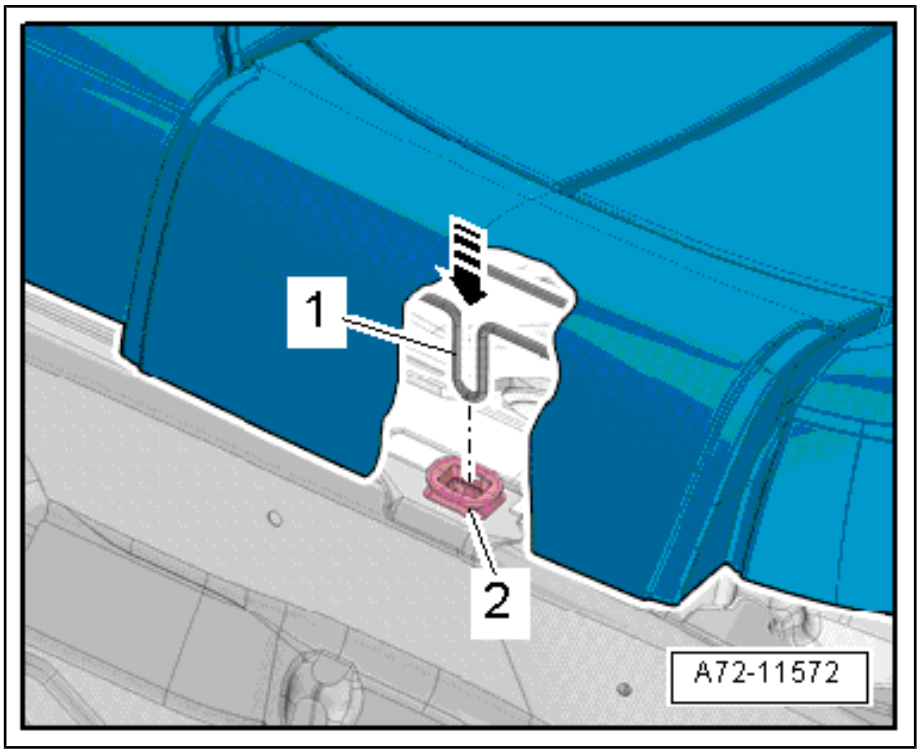
Installing

– Connect the plug connections for seat bench heating (depending on vehicle equipment).

– Before assembling the seat bench - 2 - replace the mounting grommets as these parts are not designed for reuse.



– Insert seat bench in - direction of arrow - on both sides with the crash hooks - 1 - into the mounting grommets - 2 - until they audibly click into place.



Note

Check seat bench for firm seating after installing.

3 Removing and installing backrests

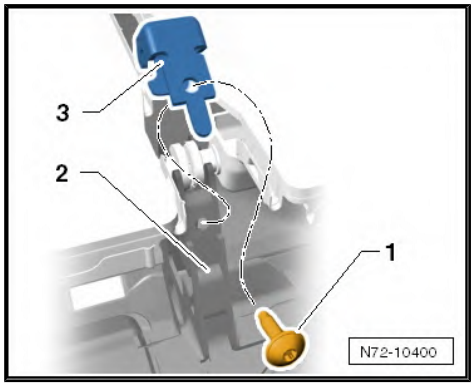
Removing

– Remove deflection fitting below for the middle safety belt ⇒ “1.8 Removing and installing the rear double belt buckle”, page 219 .

– Unlock both backrest parts and fold over.

– Remove cap for clamp.

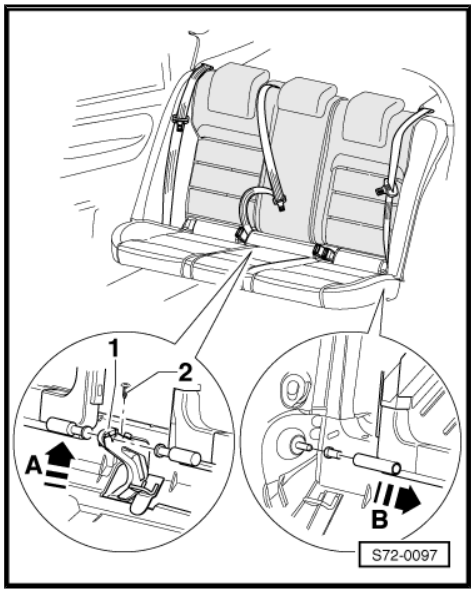
– Release the screw -1- (9 Nm) and remove the clamp -3- from the support -2-.



– Unhook backrest from the middle positions -arrow A-.

– Push the seat backrest out of the bolts -arrow B-.

– Disconnect the plug connections for heating prior to removing the backrest (depending on the vehicle equipment).



Installing

– The installation occurs in reverse order.

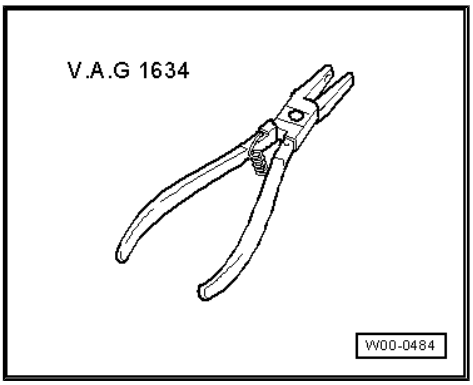
74 – Seat - padding, covers

1 Covers and upholstery of the front seats

1.1 Tools

Special tools and workshop equipment required

- Upholstery retaining clip pliers, e.g. - V.A.G 1634-



1.2 Removing and installing the cover and the upholstery of the front seat cushions

Removing

– Remove front seat
⇒ “1.1 Removing and installing front seat”, page 286 .

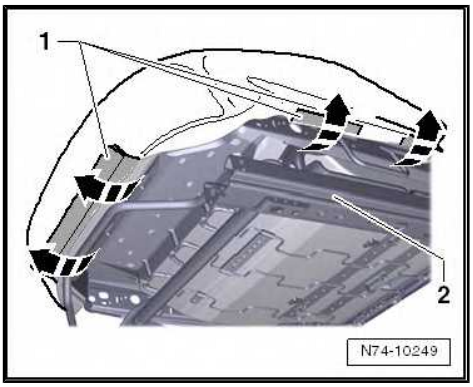
– Remove the front belt buckle
⇒ “1.3 Removing and installing the front seat belt buckle”, page 214 .

– Remove the seat trim panel on the tunnel side
⇒ “1.5 Removing and installing the seat trim panel on the tunnel side”, page 291 .

– Remove the seat trim panel on the rail side:

- Seat without height adjustment
⇒ “1.2 Removing and installing the seat upholstery on the rail side (seat without height adjustment)”, page 288 .
- Seat with height adjustment
⇒ “1.3 Removing and installing the seat upholstery on the rail side (seat with height adjustment)”, page 289 .

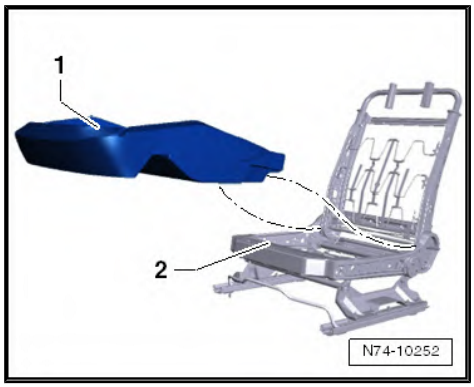
– Unhook the clamping section -1- from the seat rack -2-.



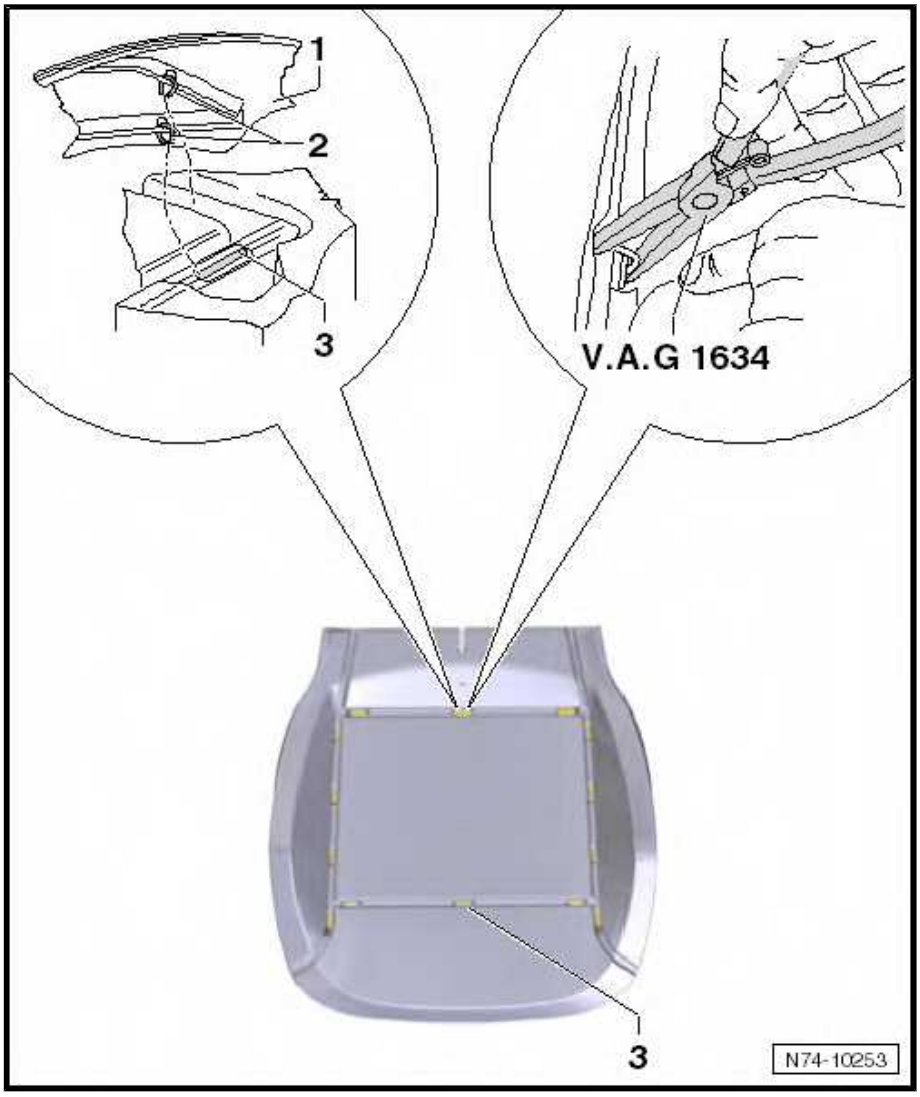
– Fold up the cover -2- all around and remove the upholstery retaining clips -1-.
– Remove the cover - 2 - from the upholstery - 3 -.

– Remove the front seat cushion -1- from the seat rack -2-.

Installing



– Attach the cover -1- with new upholstery retaining clips -2-, at the indicated points -3-, using the upholstery clip pliers - V.A.G 1634- .



– Further installation occurs in reverse order.

1.3 Removing and installing the cover and the upholstery of the front seat backrest

Removing

Note

- *When disassembling, ensure that the backrest upholstery is not damaged.*
- *The removal and the installation of the components is described for the left seat. The same applies for the removal and the installation of the components for the right seat.*

– Remove front seat
⇒ “1.1 Removing and installing front seat”, page 286 .

– Pull out the headrest.

– Remove the front belt buckle
⇒ “1.3 Removing and installing the front seat belt buckle”, page 214 .

– Remove the seat trim panel on the tunnel side
⇒ “1.5 Removing and installing the seat trim panel on the tunnel side”, page 291 .

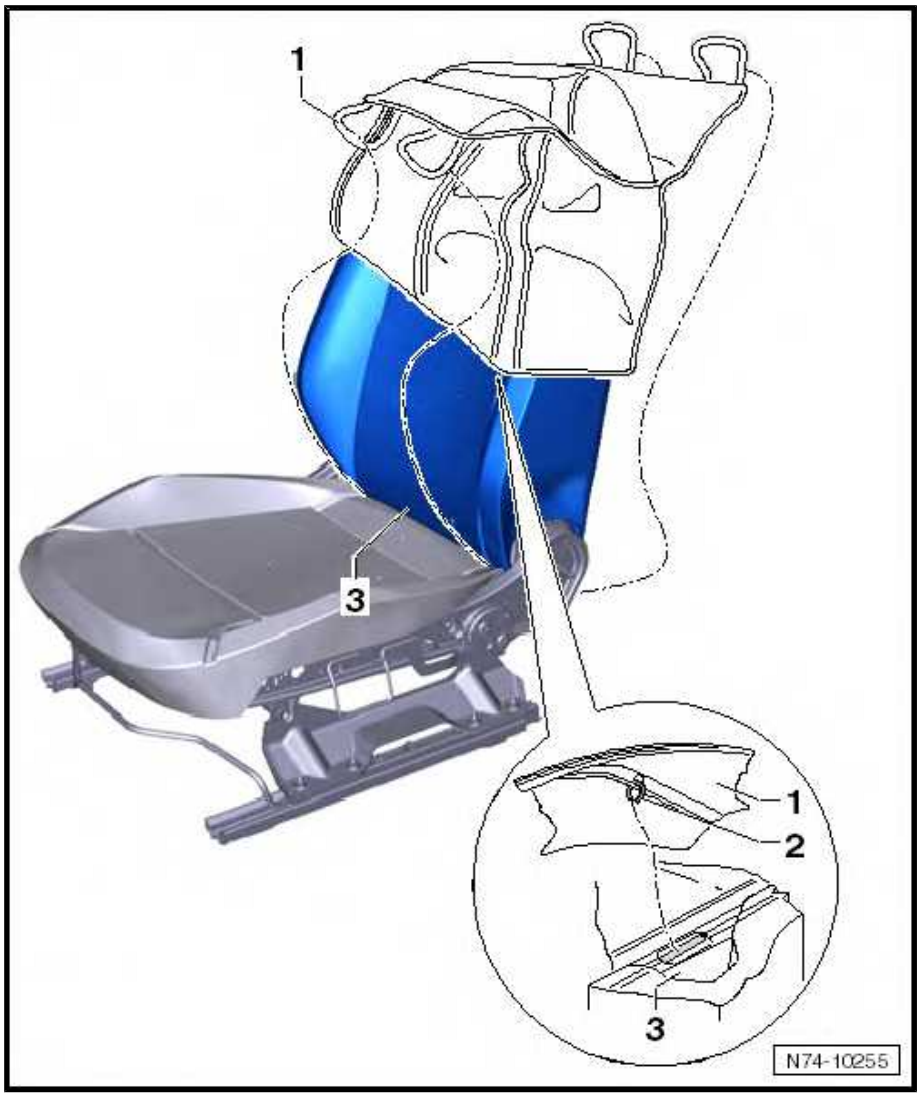
– Remove the seat trim panel on the rail side:

♦ Seat without height adjustment
⇒ “1.2 Removing and installing the seat upholstery on the rail side (seat without height adjustment)”, page 288 .

♦ Seat with height adjustment
⇒ “1.3 Removing and installing the seat upholstery on the rail side (seat with height adjustment)”, page 289 .

– Unhook the clamping section in the bottom area of the cover.

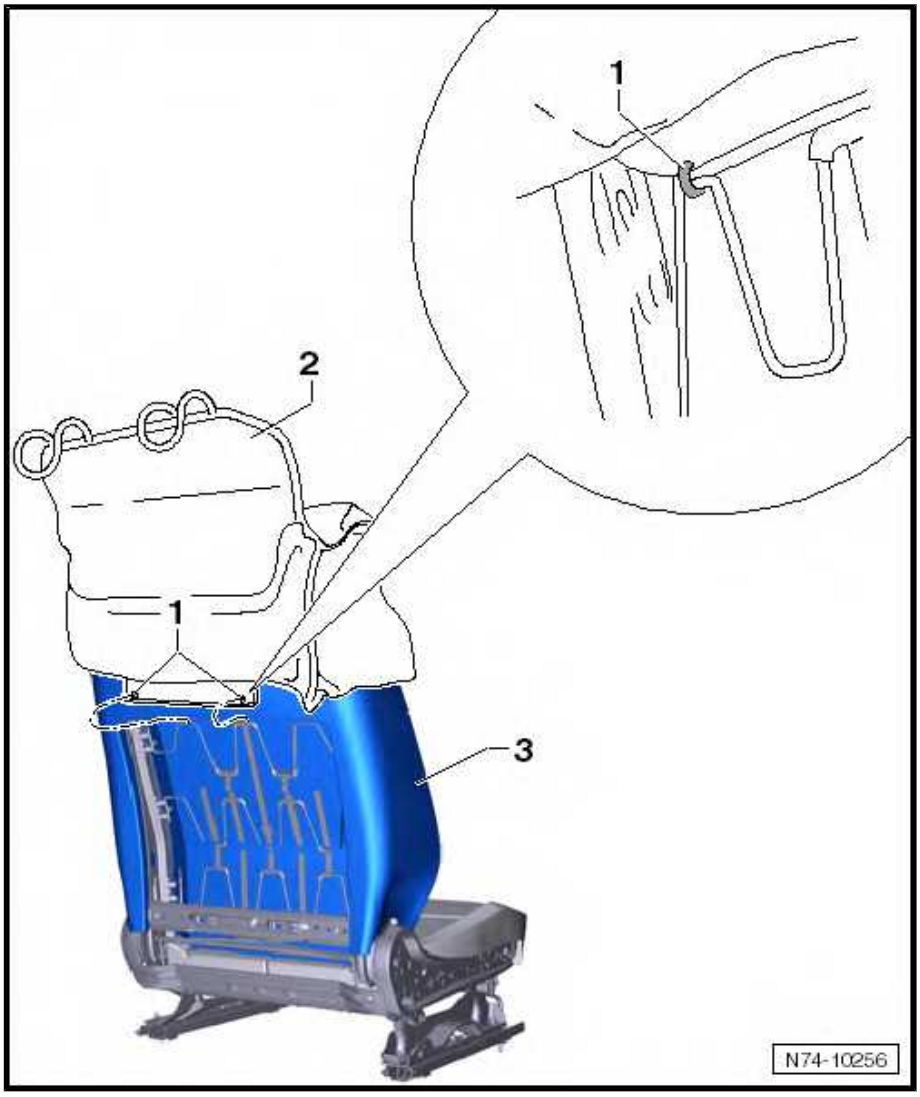
– Roll up the cover -1- at the upholstery -3- and while doing so remove all the upholstery retaining clips -2-.



– Roll up the cover on the backside -2- at the upholstery -3- and while doing so remove both upholstery retaining clips -1-.

– Roll up the cover -2- further and remove via the two headrest guides.

Volkswagen Technical Site: http://vwts.ru http://vwts.info

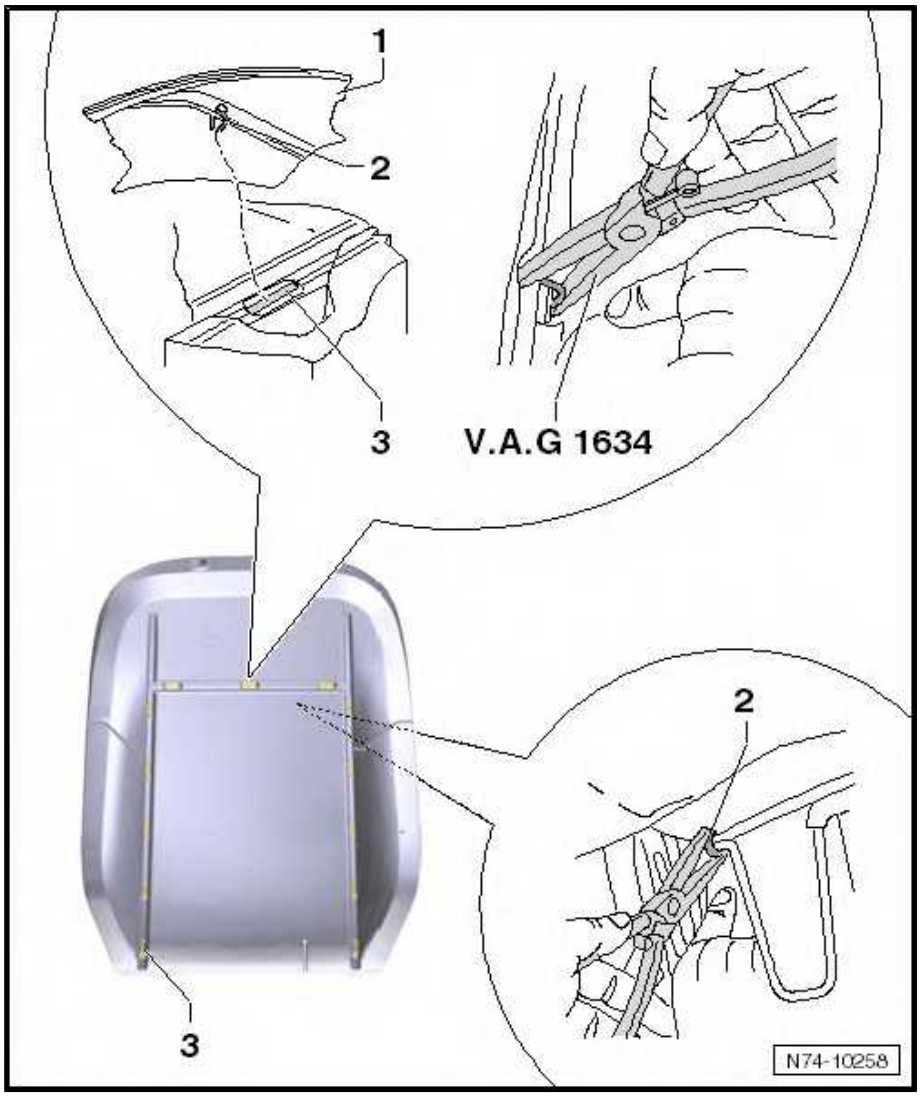


– Pull the upholstery -1- over both headrest guides and remove it from the backrest frame -2-.

Installing

– Slide the upholstery onto the backrest frame.

– Attach the cover -1- with new upholstery retaining clips -2-, at the indicated points -3-, using the upholstery clip pliers - V.A.G 1634- .



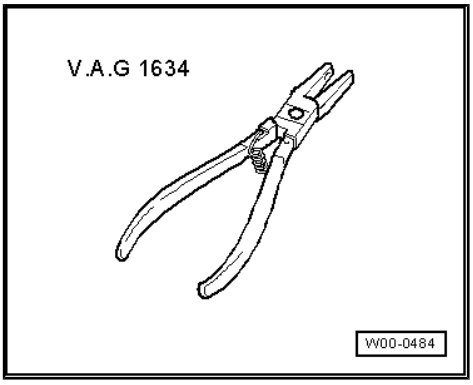
– Further installation occurs in reverse order.

2 Rear covers and seat upholstery

2.1 Tools

Special tools and workshop equipment required

- Upholstery retaining clip pliers, e.g. - V.A.G 1634-

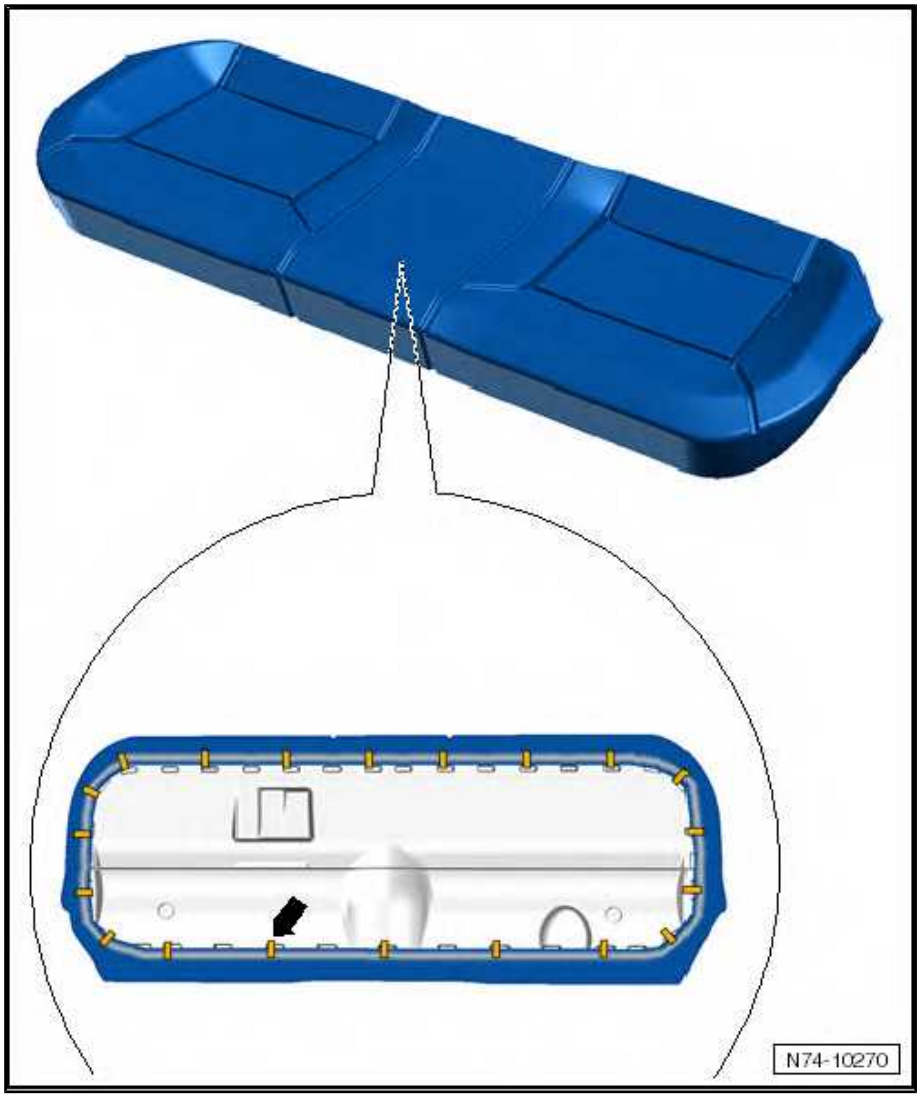


2.2 Removing and installing cover and seat upholstery

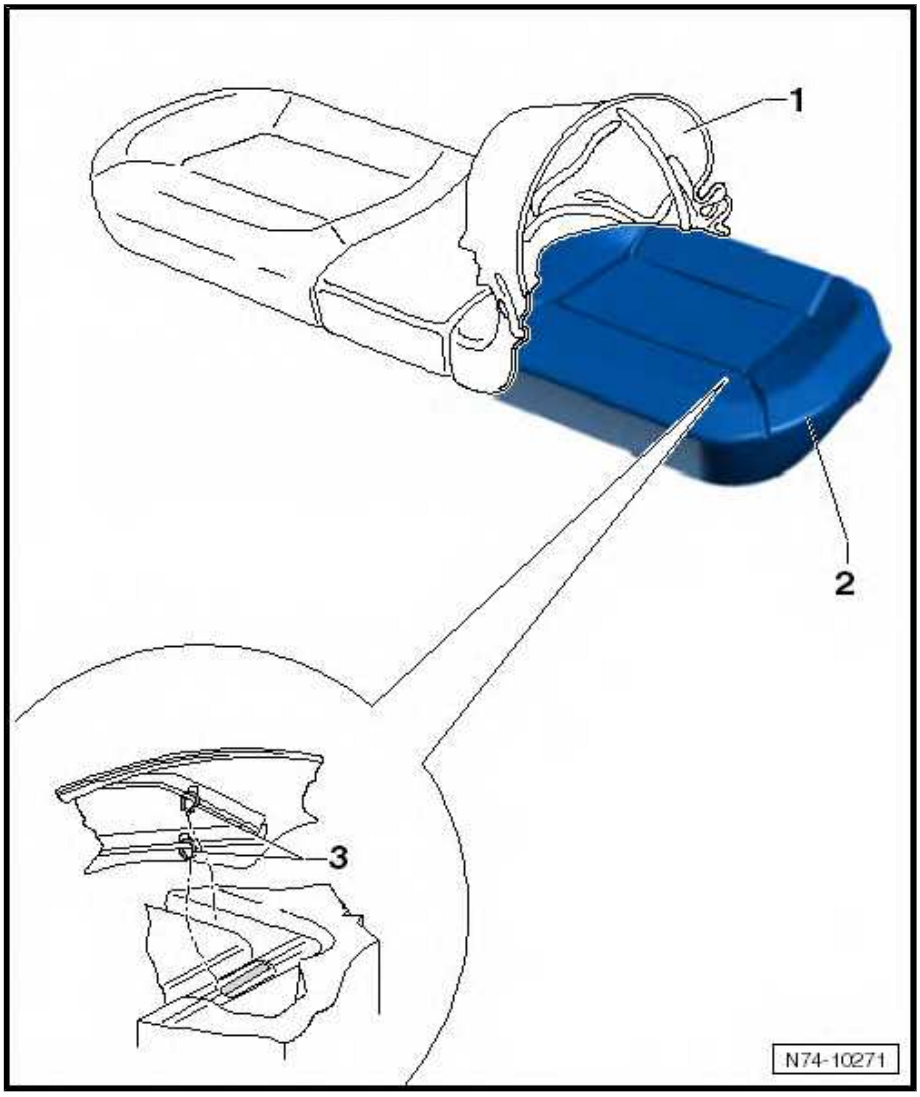
Removing

– Remove the seat bench
⇒ “2.1 Removing and installing the rear seat bench”, page 295 .

– Separate all the upholstery retaining clips - arrow - all around the underside of the seat bench.

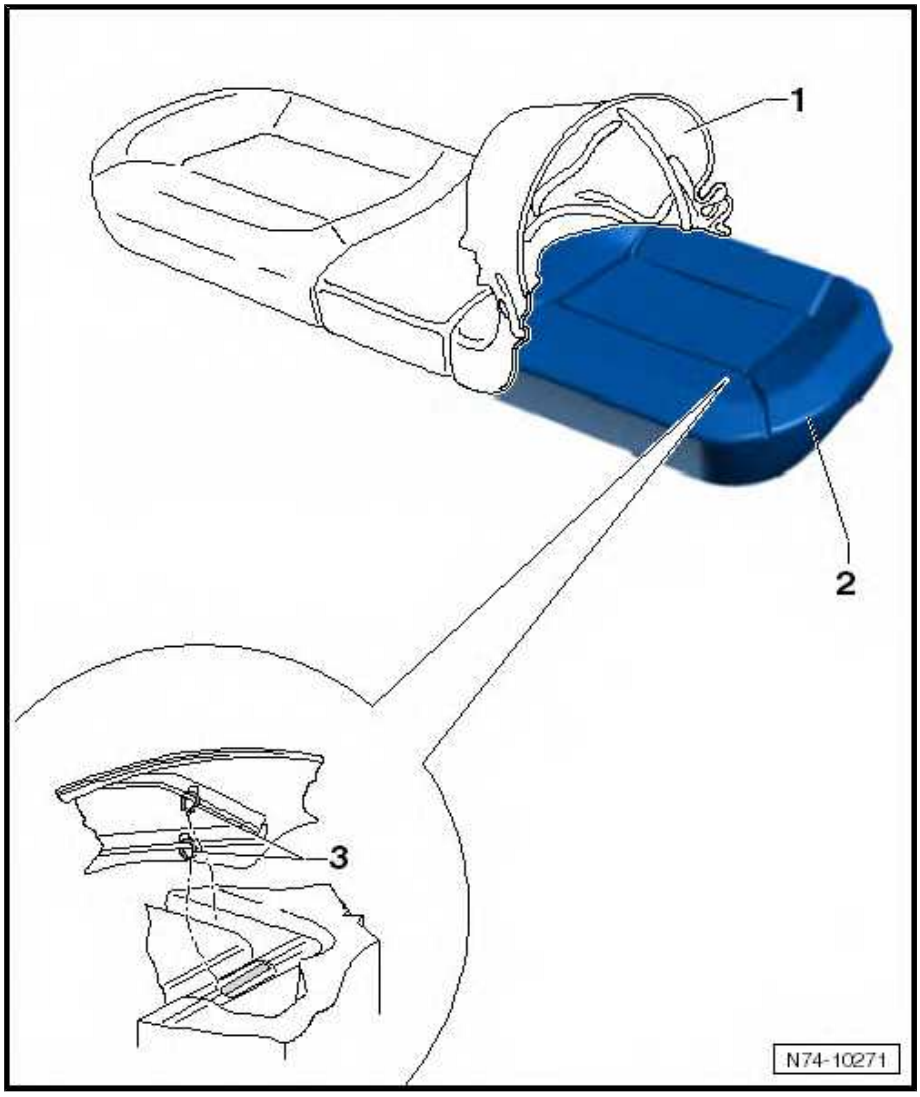


– Roll up the cover -1- all around.
– Remove all the upholstery retaining clips -3-.
– Remove the cover - 1 - from the upholstery - 2 -.



Installing

– Attach the cover - 1 - with new upholstery retaining clips - 3 - to the upholstery - 2 - using the upholstery clip pliers - V.A.G 1634- .



– Further installation occurs in reverse order.

2.3 Removing and installing entire cover and backrest upholstery

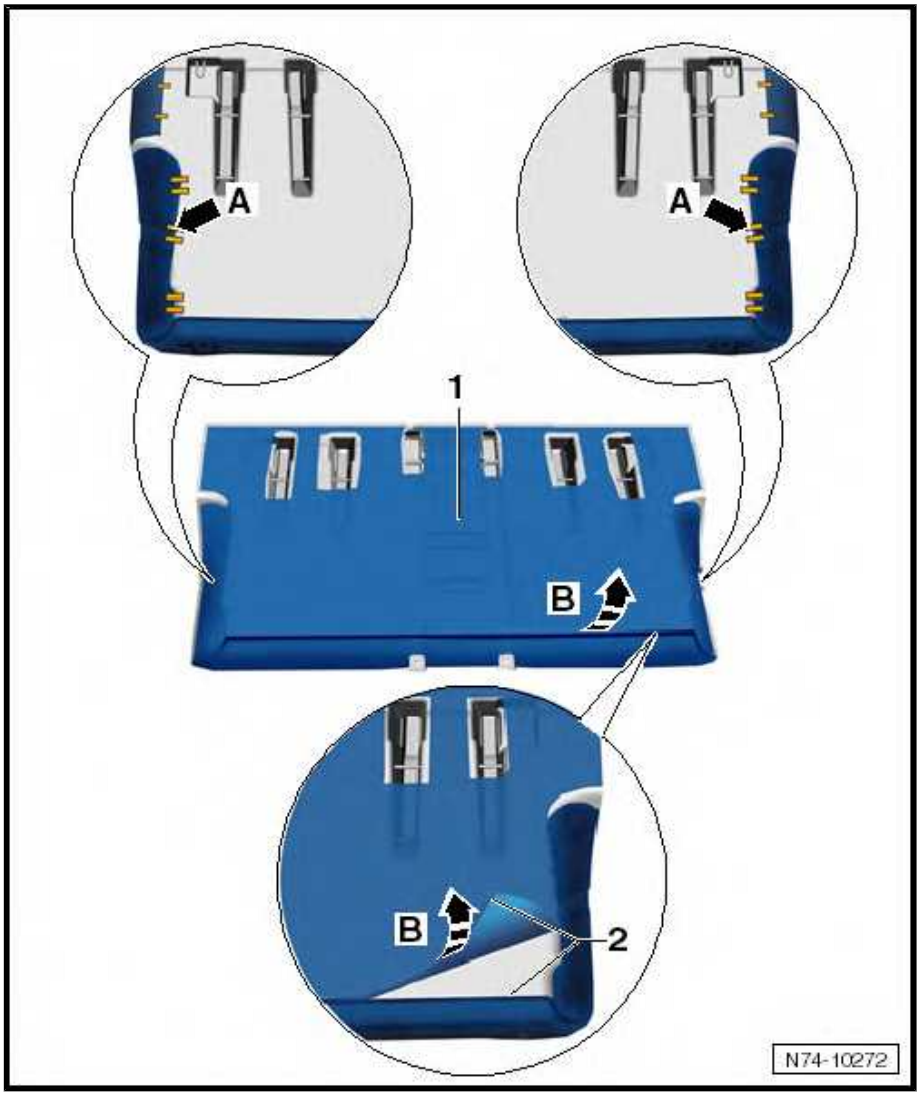
Removing

– Removing backrest
⇒ “3 Removing and installing backrests”, page 298 .

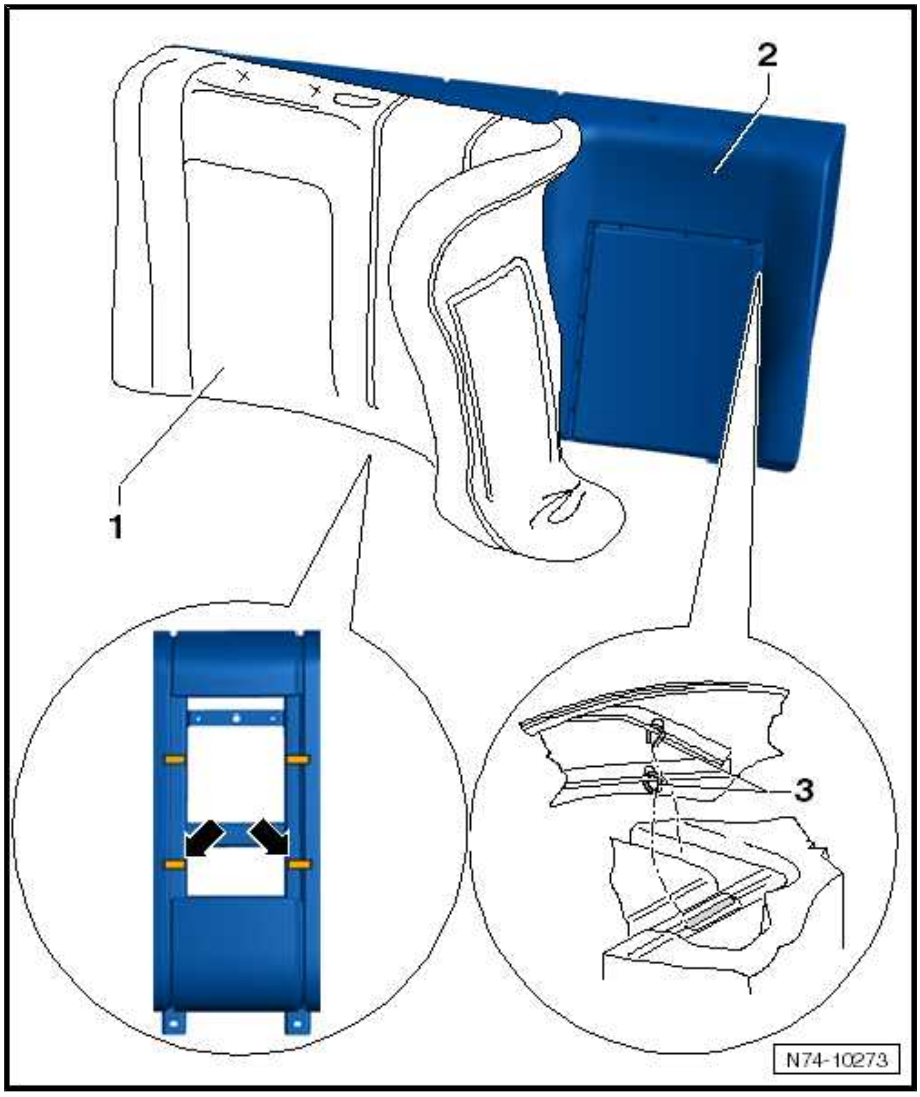
– Open the double-braided strip -2- of the cover -1- on the rear side of the backrest and fold up in -direction of arrow B-.

– Remove all the upholstery retaining clips -arrow A- on both sides.

– Roll up the cover on the sides.



– Remove all the upholstery retaining clips - 3 - on the front side.
– Remove the cover - 1 - from the upholstery - 2 -.

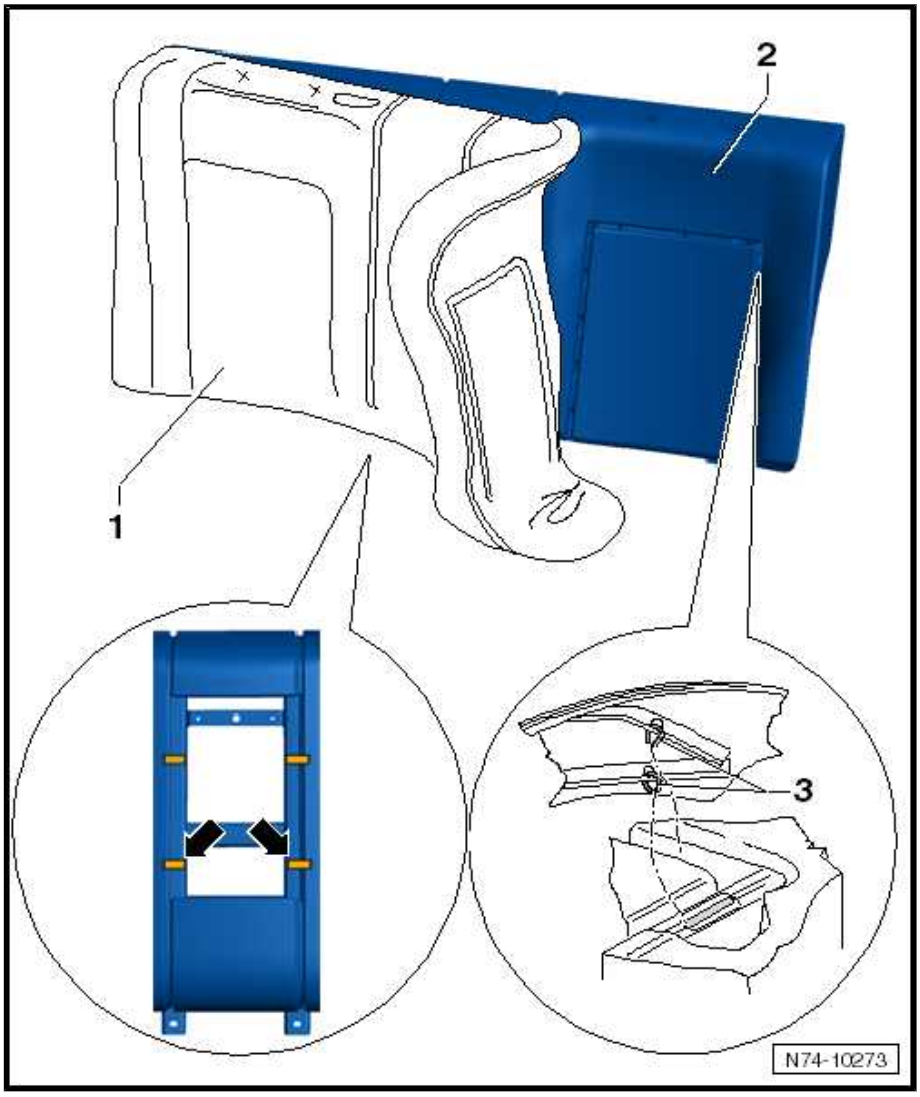


Installing

– Attach the cover - 1 - with new upholstery retaining clips - 3 - to the upholstery - 2 - using the upholstery clip pliers - V.A.G 1634- .

Note

On vehicles with armrest, replace the upholstery retaining clips in the area of the armrest cutout -arrows-.



– Further installation occurs in reverse order.