



## Workshop Manual Amarok 2011 ➤

### General body repairs, exterior

Edition 10.2012







## List of Workshop Manual Repair Groups

### Repair Group

- 50 - Body - front
- 55 - Bonnet, rear lid
- 57 - Front doors, door components, central locking
- 58 - Rear doors, door components
- 60 - Sunroof
- 61 - Convertible roof, hardtop, canopy
- 63 - Bumpers
- 64 - Glazing
- 66 - Exterior equipment

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 Lock carrier

(VRL005195; Edition 10.2012)

⇒ [“1.1 Assembly overview - lock carrier”, page 1](#)

⇒ [“1.2 Assembly overview - support for lock carrier”, page 2](#)

⇒ [“1.3 Assembly overview - air ducting”, page 3](#)

⇒ [“1.4 Assembly overview - bumper”, page 3](#)

⇒ [“1.5 Removing and installing front lock carrier”, page 4](#)

⇒ [“1.6 Removing and installing support for lock carrier”, page 6](#)

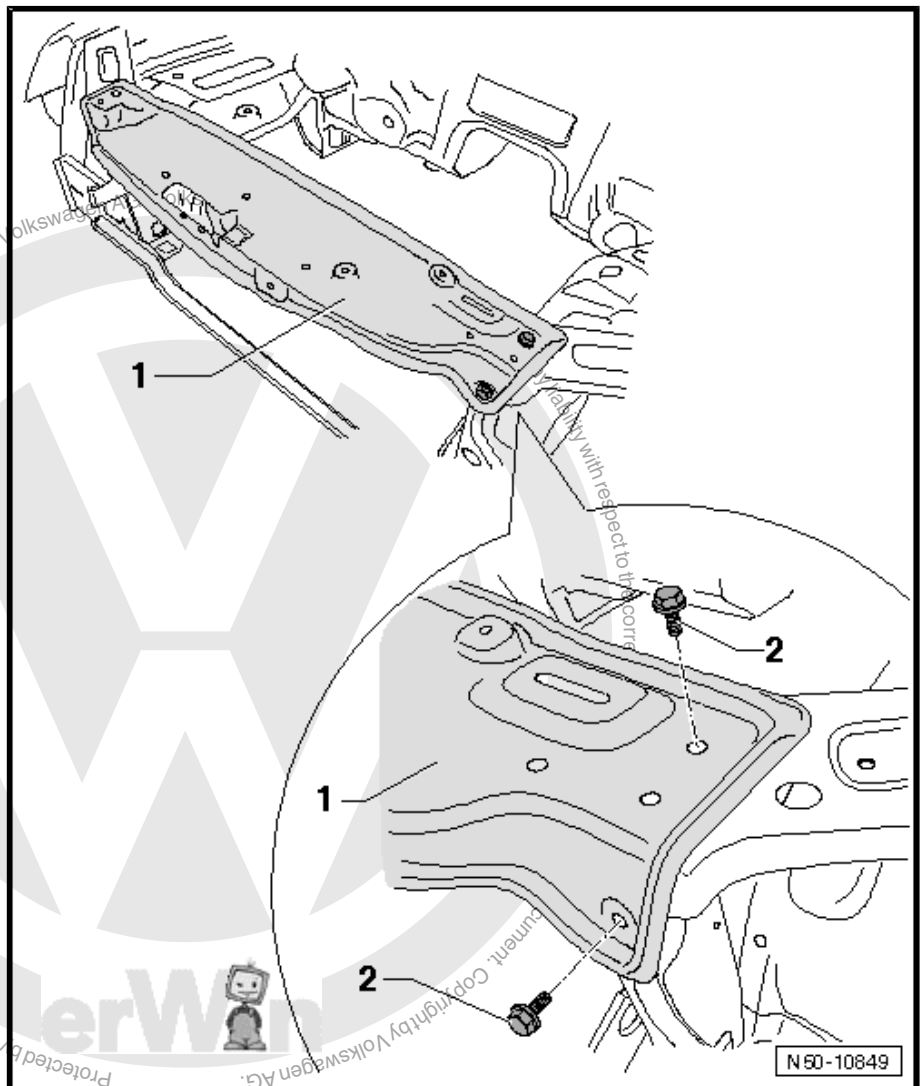
#### 1.1 Assembly overview - lock carrier

##### 1 - Front lock carrier

- ☐ Removing and installing  
⇒ [page 4](#)

##### 2 - Bolt

- ☐ Qty. 2 on each side
- ☐ Specified torque: 12 Nm







## 1.2 Assembly overview - support for lock carrier

### 1 - Support for left lock carrier

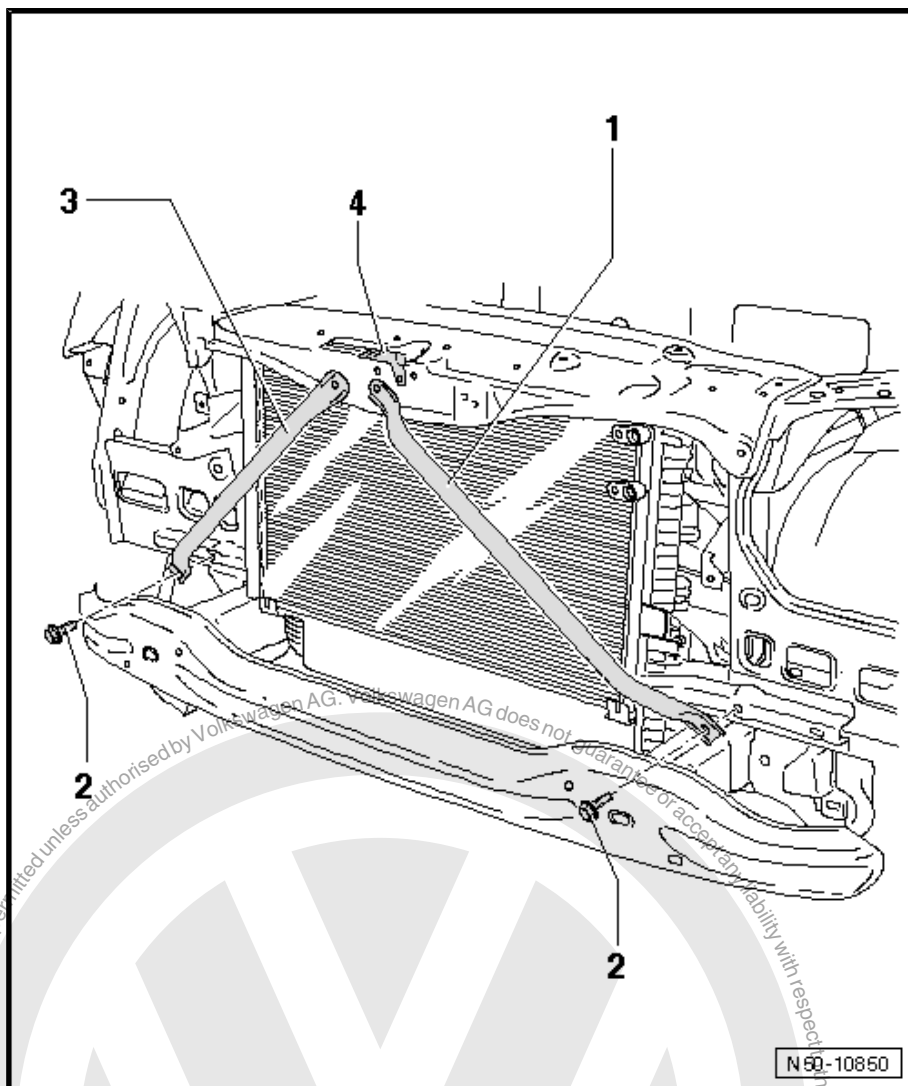
- ❑ Removing and installing  
⇒ [page 6](#)

### 2 - Bolt

- ❑ Qty. 2
- ❑ Left and right.
- ❑ Specified torque: 20 Nm  
+ 90°

### 3 - Support for left lock carrier

- ❑ Removing and installing  
⇒ [page 6](#)







## 1.3 Assembly overview - air ducting

### 1 - Right air duct

- ☐ Removing:
  - Remove front bumper cover ⇒ [page 236](#).
- ☐ Remove hose to air vent housing from rear ⇒ Heater and air conditioning system; Rep. gr 80 ; Air vent housing
- ☐ Unclip clip -5-, remove right air deflector element forwards.
- ☐ Installing:
- ☐ Install in reverse order of removal.

### 2 - Lock carrier

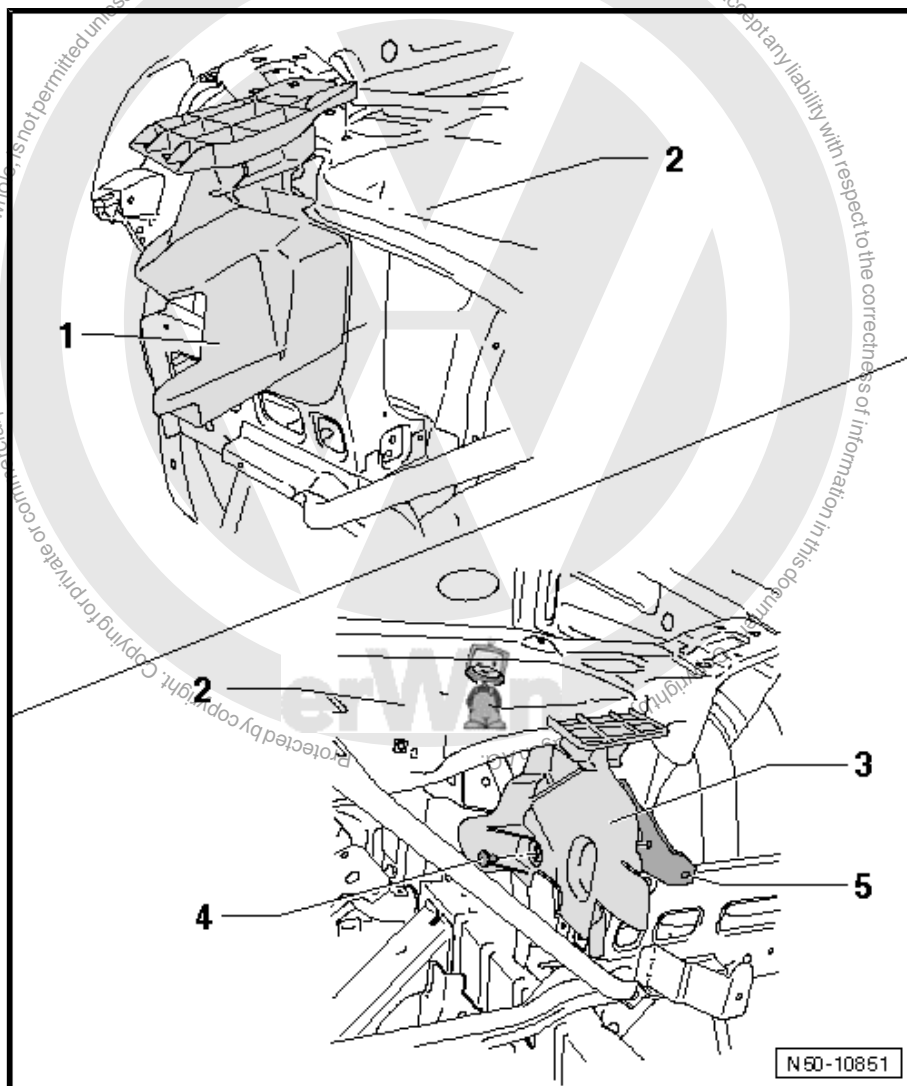
### 3 - Bracket

### 4 - Left air duct

- ☐ Removing:
  - Remove front bumper cover ⇒ [page 236](#).
- ☐ Unclip upwards out of lock carrier -2-.
- ☐ Installing:
- ☐ Install in reverse order of removal.

### 5 - Clip

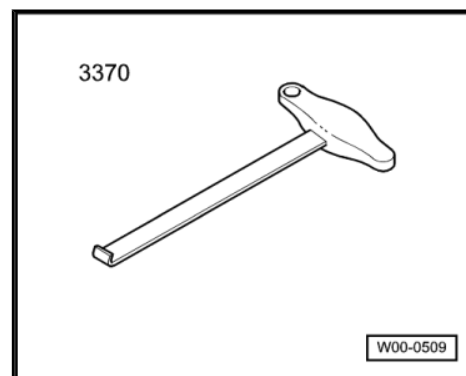
- ☐ Left only



## 1.4 Assembly overview - bumper

### Special tools and workshop equipment required

- ◆ Front end hook -3370-





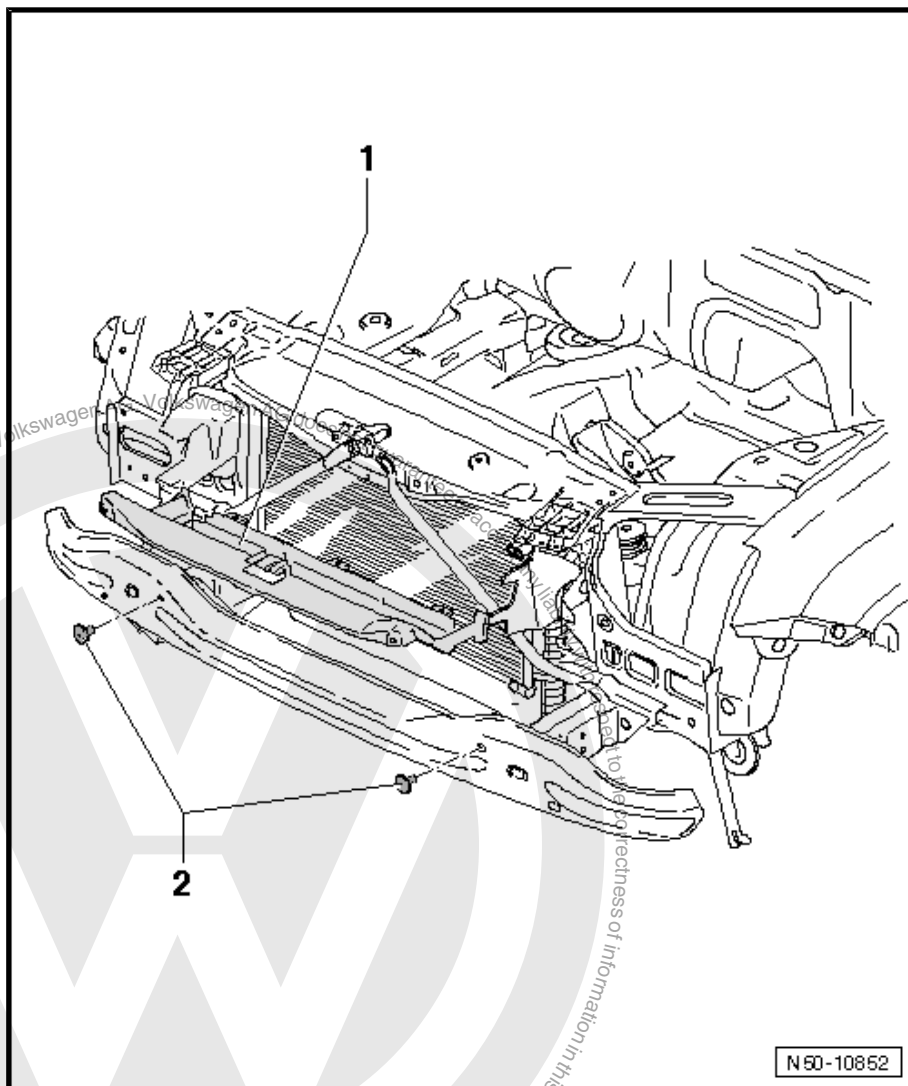


## 1 - Air duct

- ☐ Removing:
- ☐ Remove front bumper cover ⇒ [page 236](#) .
- ☐ Removing foam element - pedestrian protection ⇒ [page 236](#) .
- ☐ Unclip clip -2- on left and right cross members.
- ☐ Carefully lever off air duct upwards using front end hook -3370- .
- ☐ Installing:
- ☐ Install in reverse order of removal.

## 2 - Clip

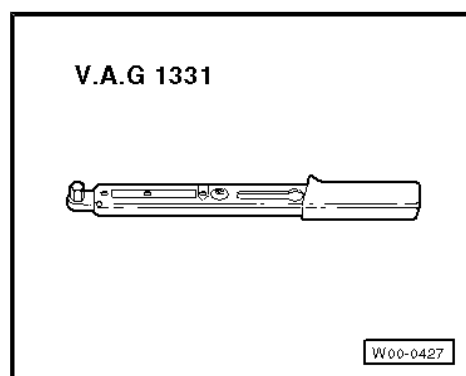
- ☐ Qty. 2



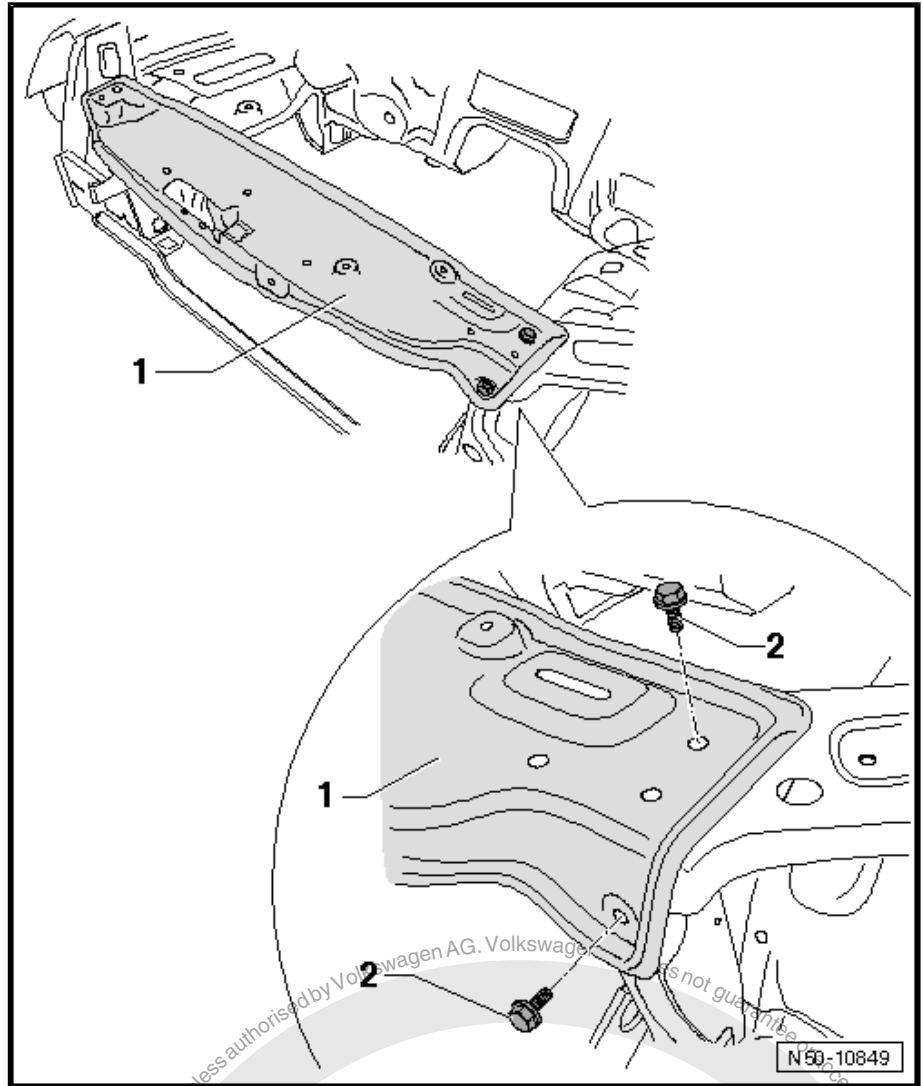
## 1.5 Removing and installing front lock carrier

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-







### Removing

- Remove front bumper cover ⇒ [page 236](#) .
- Remove lid lock -1- unclip ⇒ [page 25](#) .
- Unclip Bowden cable from front lock carrier -1- and disconnect ⇒ [page 33](#) .
- Unfasten air deflector elements ⇒ [page 3](#) .
- Unfasten radiator at front lock carrier -1- ⇒ Engine cooling system; Rep. gr. 19 ; Removing and installing parts of the cooling system; Draining and filling coolant .
- Remove bolts -2- on left and right.
- Remove front lock carrier -1- forwards.

### Installing

Install in reverse order of removal. When doing this, observe the following:

- Ensure joints are parallel and shut lines are equal ⇒ Body Repairs; Rep. gr. 00 ; Technical data; Body gaps; Body, front .

### Specified torques

- ◆ ⇒ [“1.1 Assembly overview - lock carrier”, page 1](#)

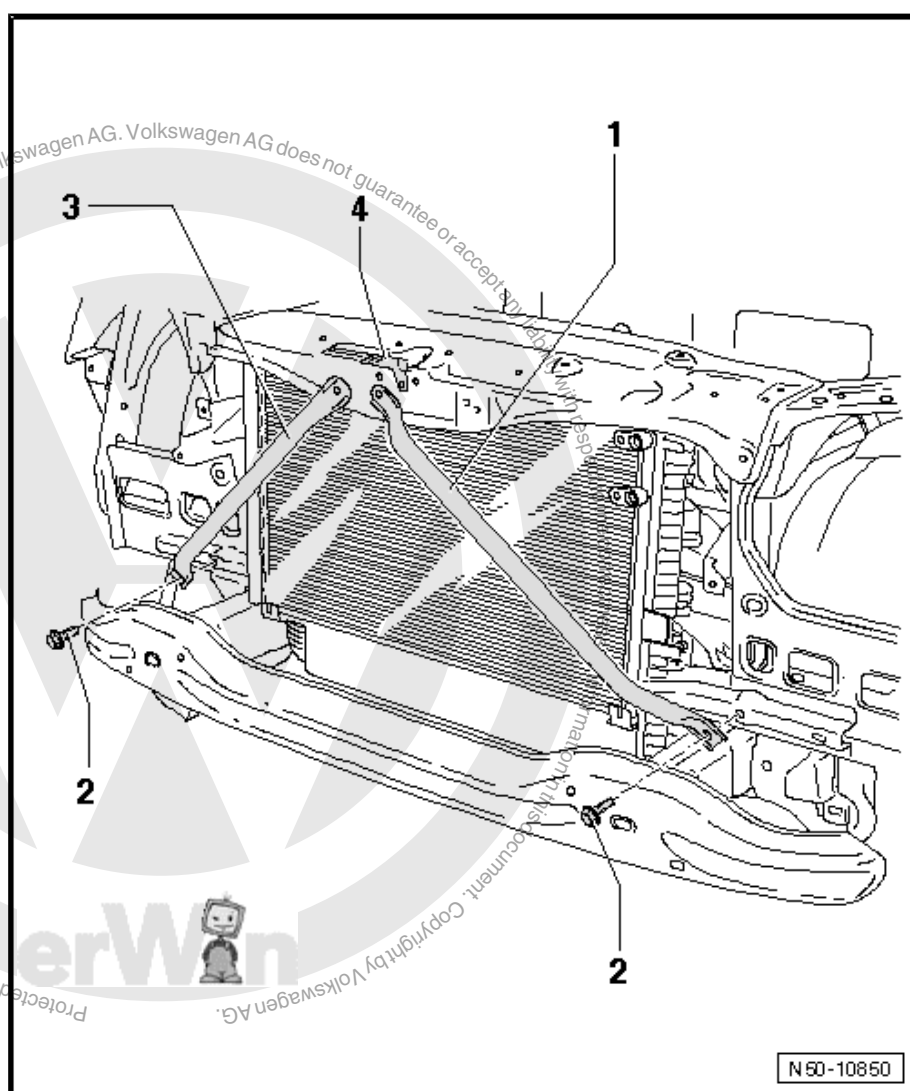
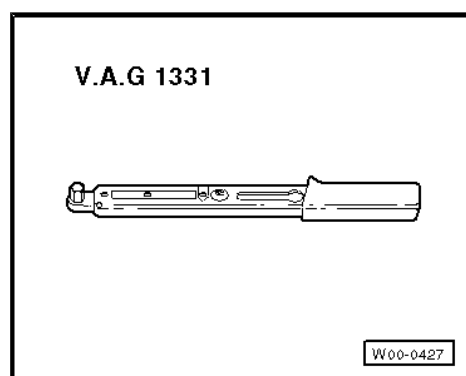




## 1.6 Removing and installing support for lock carrier

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-



### Removing

- Remove front bumper cover ⇒ [page 236](#) .
- Remove front bumper cover closing piece ⇒ [page 236](#) .





- Remove bolts on lid lock ⇒ [page 25](#) .
- Remove bolts -2- on left and right.
- Remove support for lock carrier -1- and -2- forwards.

### Installing

Install in reverse order of removal. When doing this, observe the following:

### Specified torques

- ◆ Bolts -2-  
⇒ [“1.2 Assembly overview - support for lock carrier”, page 2](#) .
- ◆ Bolts -4- ⇒ [“1.6 Bonnet lock and Bowden cable”, page 25](#) .







## 2 Wing

⇒ "2.1 Assembly overview - wing", page 8

⇒ "2.2 Removing and installing wing", page 8

### 2.1 Assembly overview - wing



#### Note

Only the left side is shown. The right side is similar.

#### 1 - Wing

- ❑ Removing and installing  
⇒ page 8

#### 2 - Bolt

- ❑ Qty. 1, A-pillar top
- ❑ Specified torque: 8 Nm.

#### 3 - Bolt

- ❑ Qty. 1, A-pillar bottom
- ❑ Qty. 1, side member
- ❑ Qty. 1, front wing
- ❑ Qty. 3, wing connection piece
- ❑ Specified torque: 5 Nm.

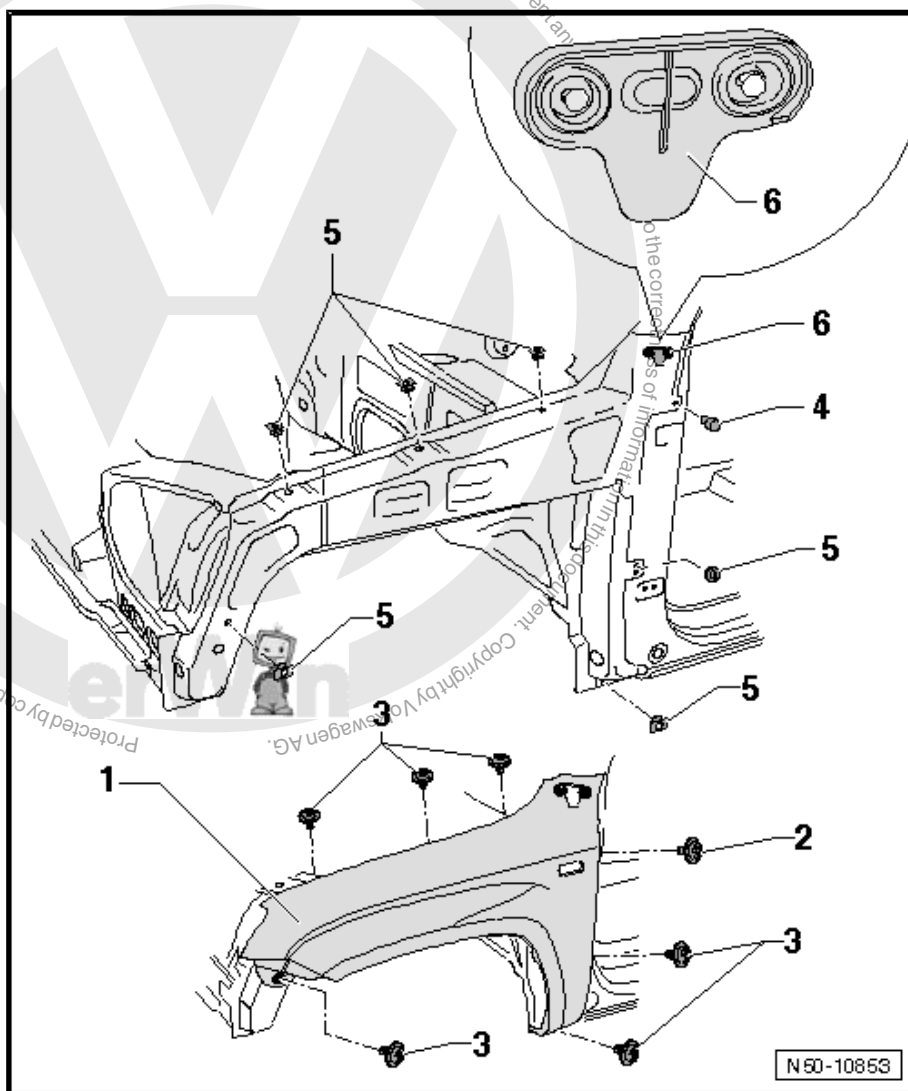
#### 4 - Pop rivet nut

- ❑ Qty. 1, A-pillar top
- ❑ Insert using pop rivet nut pliers -V.A.G 1765B- .

#### 5 - Spring clip

- ❑ Qty. 1, A-pillar bottom
- ❑ Qty. 1, side member
- ❑ Qty. 1, front wing
- ❑ Qty. 3, wing connection piece

#### 6 - Wing support



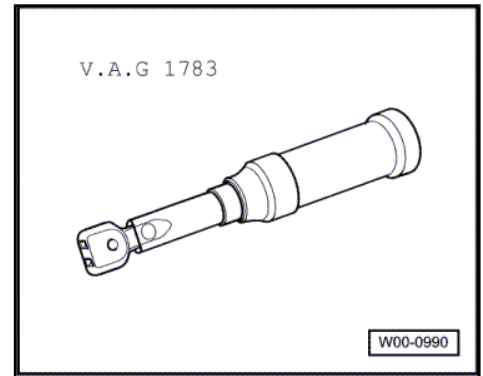
### 2.2 Removing and installing wing

Special tools and workshop equipment required

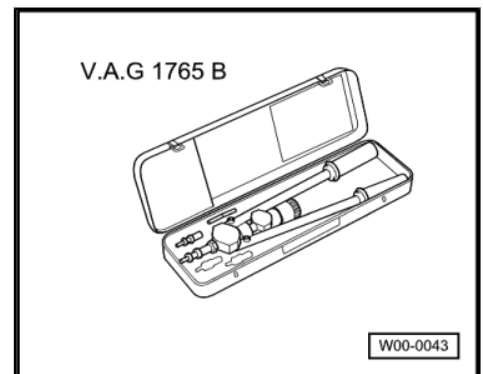




◆ Torque wrench -V.A.G 1783-



◆ Pop rivet nut pliers -V.A.G 1765B-



**Note**

*Removal and installation are described only for the left wing. Removal and installation of the right wing are similar.*

**Removing**

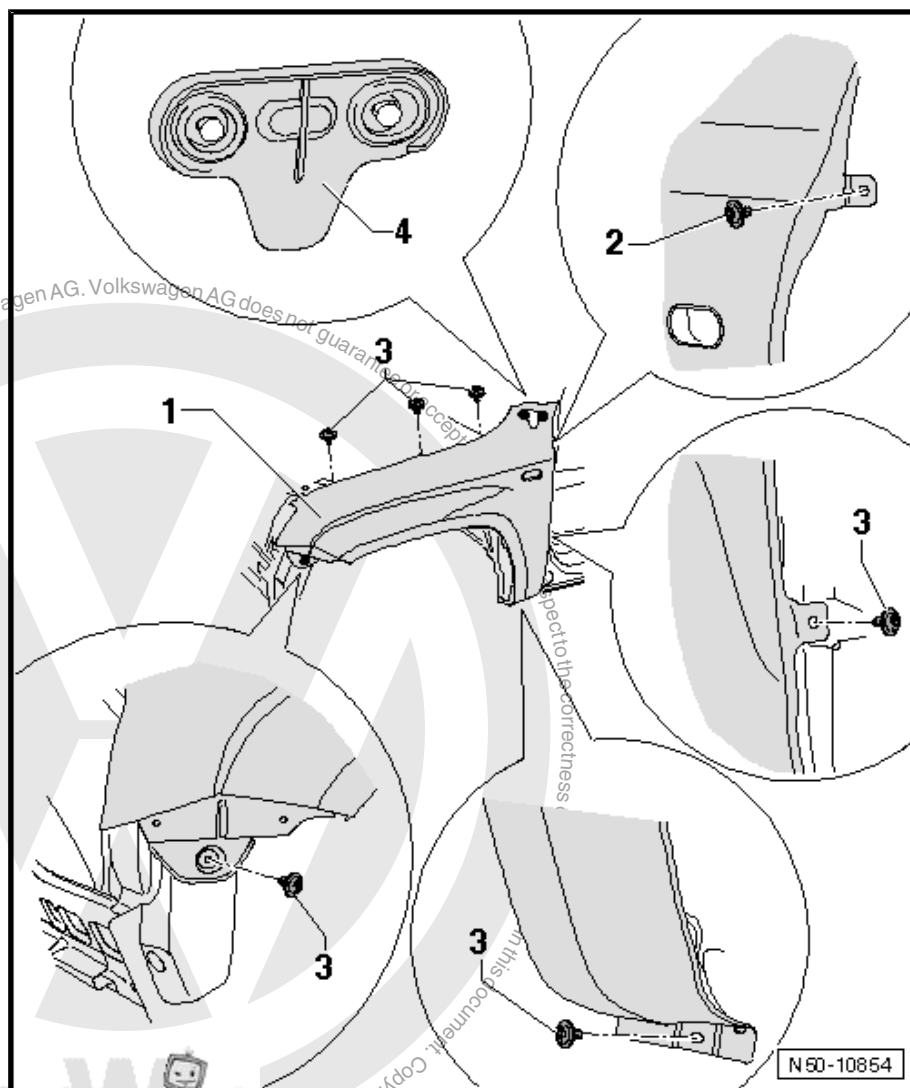


**WARNING**

*Clean all surrounding parts before beginning work and mask them with tape.*

*When removing wing, cutting wire should not be used due to the risk of damage to the painted areas.*





- Remove front wheel housing liner ⇒ [page 304](#) .
- Remove front bumper cover ⇒ [page 236](#) .
- Remove side turn signal light ⇒ Electrical system; Rep. gr. 94 ; Side turn signal lights .
- Remove bolts -2- and -3-
- Thread cutting cord -357 853 999 A- between wing -1- and A-pillar.
- Separate bonding on wing support -4- with "sawing" motions of both pull handles -V.A.G 1351/1- .
- Remove wing -1- carefully.

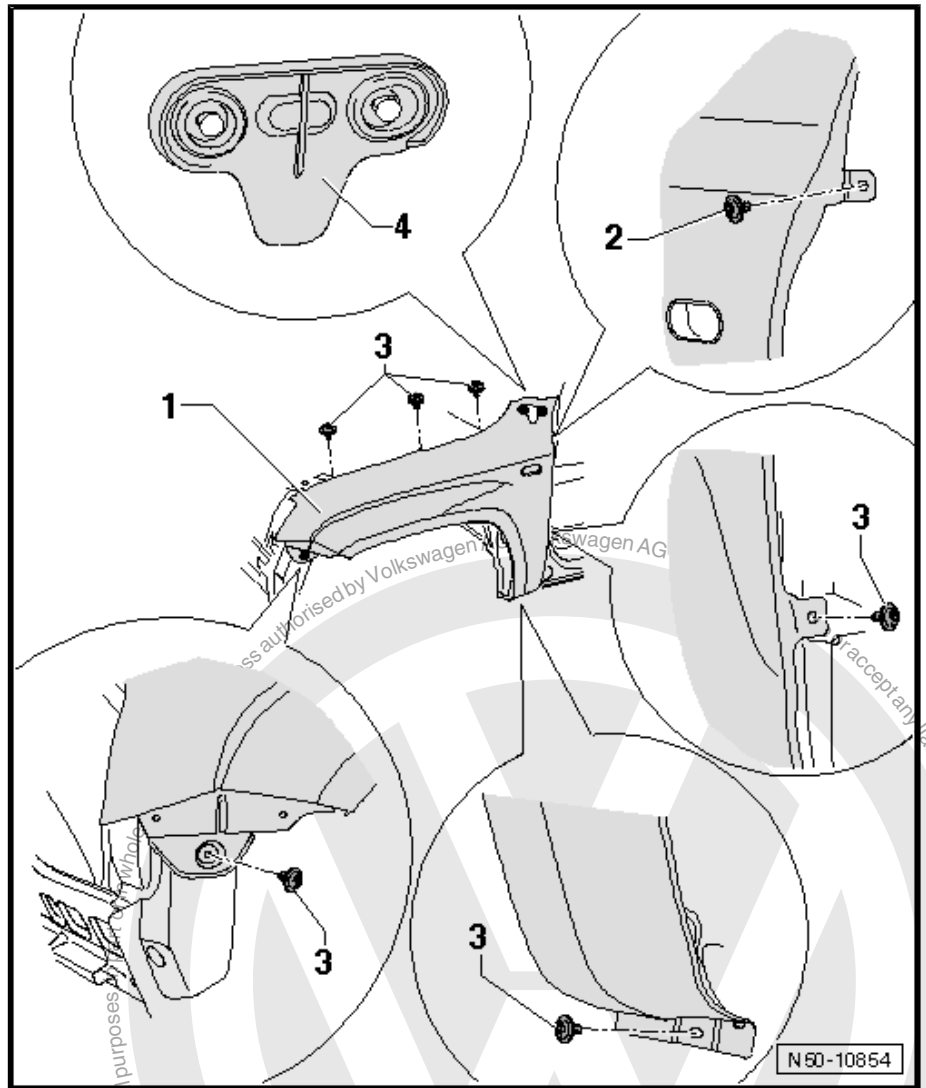
#### Installing



#### Note

*Install wing -1- without subjecting it to tensile stress.*





- Restore bonding -4- between A-pillar and wing -1- using sealing cord -AKD 497 010 04 R10- .
- Ensure joints are parallel and shut lines are equal ⇒ Body Repairs; Rep. gr. 00 ; Technical data; Body gaps; Body, front .

Fitting is carried out with wing strut -3- removed.



#### Note

Carry out corrosion protection measures on wing and securing bolts after assembly and adjustment work.

#### Specified torques

- ◆ ⇒ ["2.1 Assembly overview - wing", page 8](#) .





### 3 Bulkhead

⇒ "3.1 Assembly overview - plenum chamber cover", page 12

⇒ "3.2 Removing and installing plenum chamber cover",  
page 12

#### 3.1 Assembly overview - plenum chamber cover

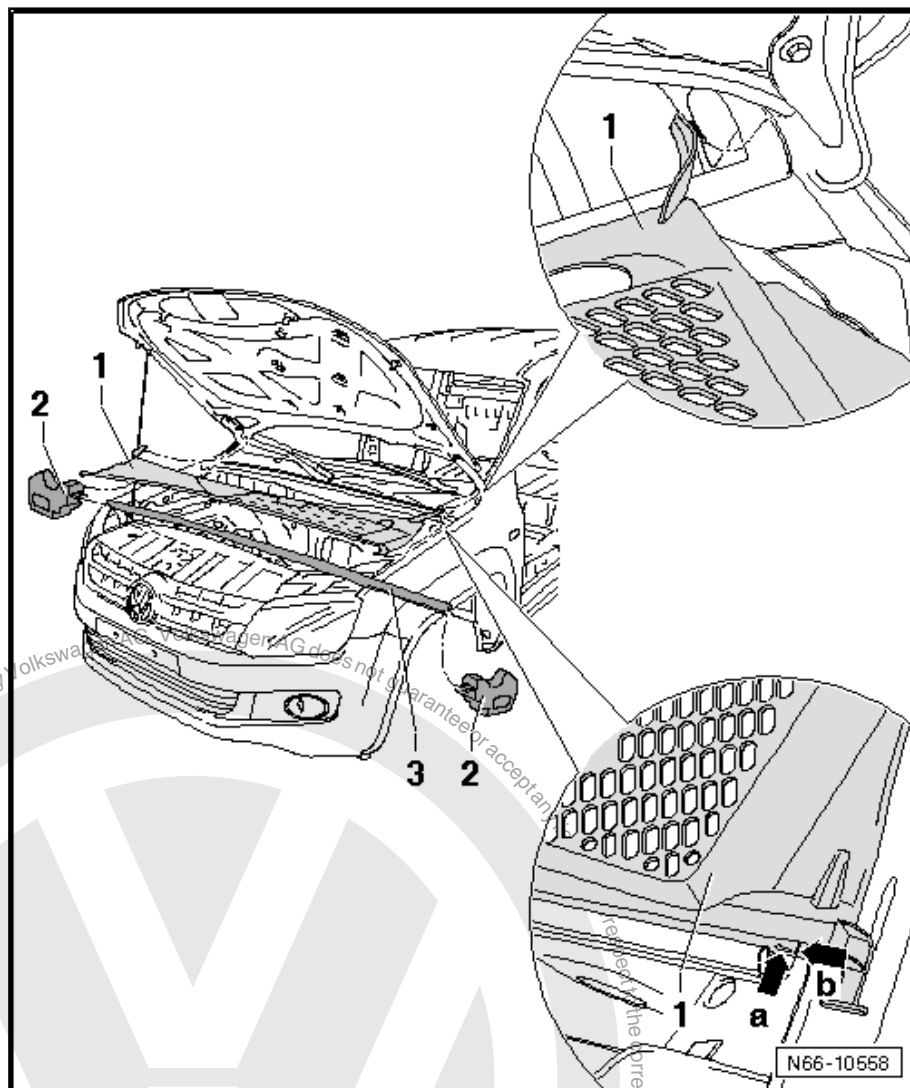
##### 1 - Plenum chamber cover

- ❑ Removing and installing  
⇒ page 12 .

##### 2 - Filler piece

- ❑ Left and right.
- ❑ Between seal - bonnet, plenum chamber and wing

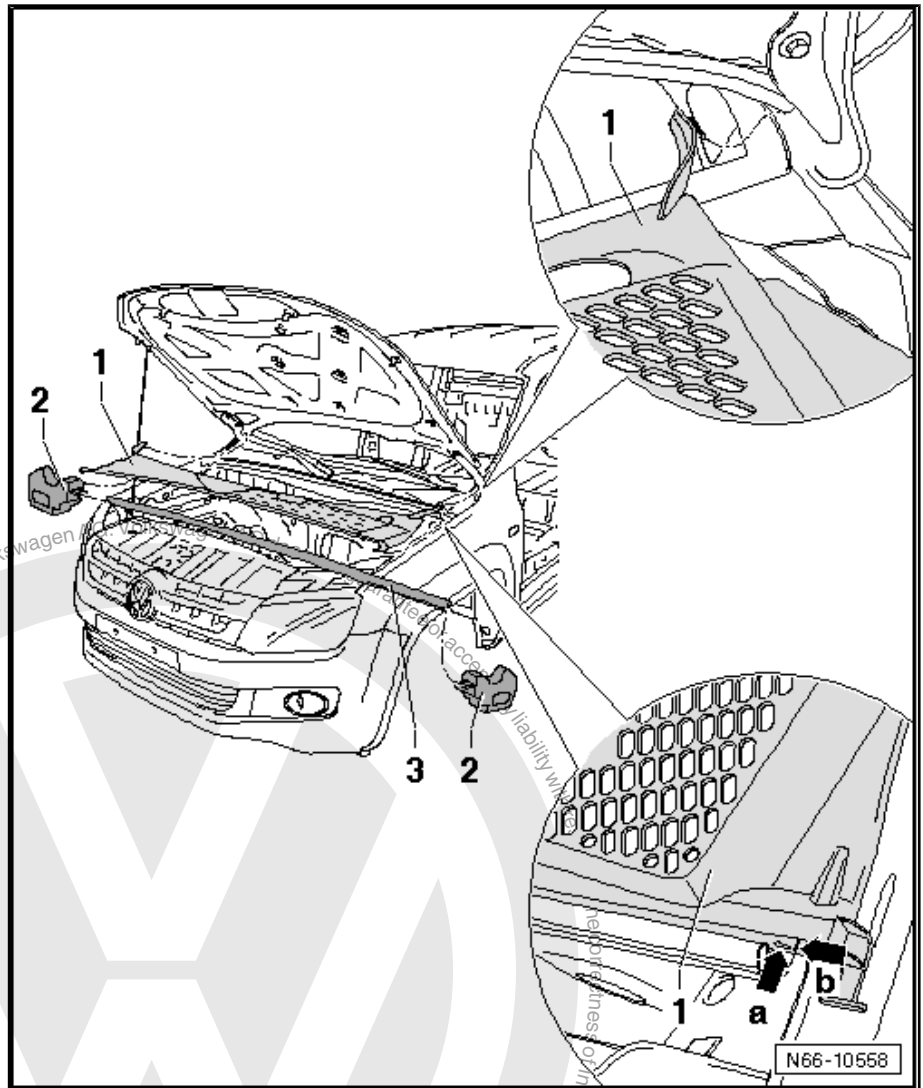
##### 3 - Seal - bonnet, plenum chamber



#### 3.2 Removing and installing plenum chamber cover

##### Removing





#### Removing

- Remove windscreen wiper arms ⇒ Electrical system; Rep. gr. 92 ; Removing and installing windscreen wiper system .
- Pull off entire length of plenum chamber seal -3-.



#### WARNING

***The glass could be destroyed.***

***The plenum chamber cover must not be levered off with a tool (screwdriver, wedge). The windscreen will be damaged and may subsequently crack.***

- Remove filler piece -2- on side of plenum chamber covers -1- on left and right.
- Starting from bonnet hinge, pull plenum chamber cover -1- upwards and out of windscreen seal on bottom edge of windscreen.
- Remove plenum chamber cover -1- from vehicle.





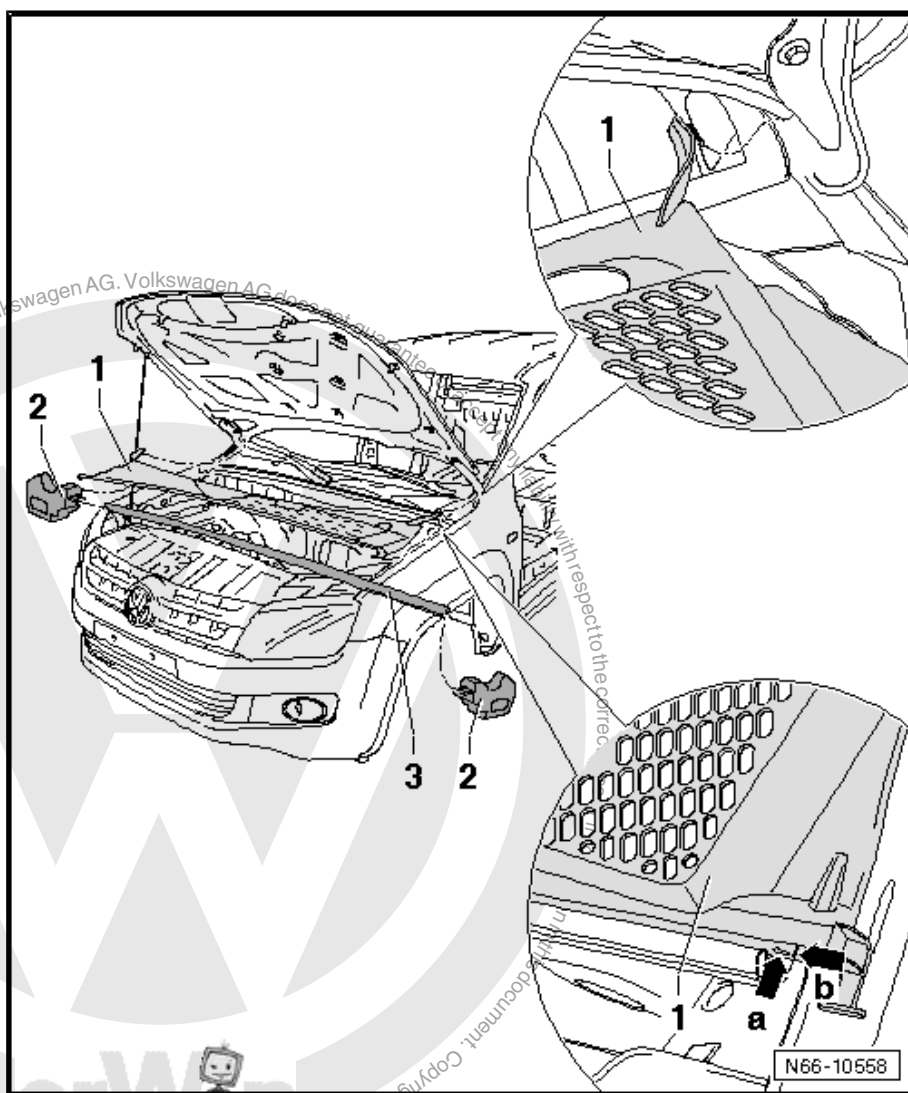
## Installing



### WARNING

*The glass could be destroyed.*

*Striking the plenum chamber cover can cause cracks in the windscreen.*



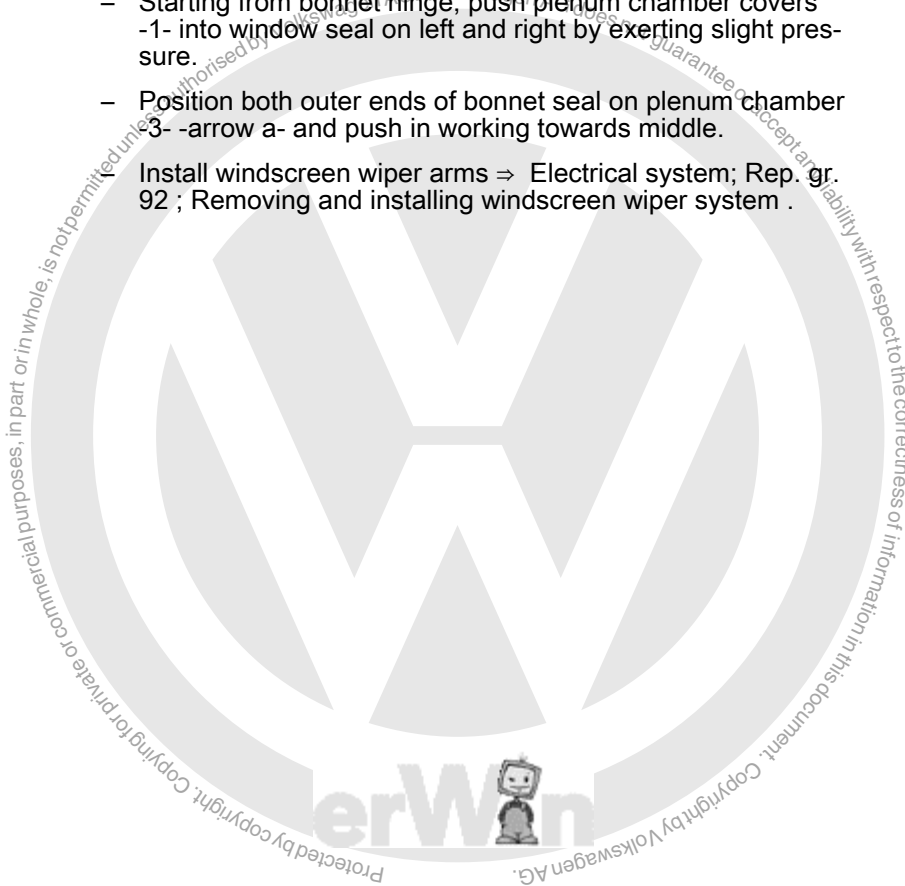
### Note

- ◆ An insert is fitted in windscreen seal of new windscreens. Remove this insert before installing plenum chamber cover.
- ◆ The plenum chamber cover may only be pushed into the windscreen seal by hand using light pressure. Never fit with blows or with the use of tools.
- Spray windscreen seal with a soapy solution so that plenum chamber covers -1- are easier to press on.
- Note positioning of plenum chamber cover -1- on sheet metal flange, left and right -arrow b-.





- Starting from bonnet hinge, push plenum chamber covers  
-1- into window seal on left and right by exerting slight pressure.
- Position both outer ends of bonnet seal on plenum chamber  
3- -arrow a- and push in working towards middle.
- Install windscreen wiper arms ⇒ Electrical system; Rep. gr.  
92 ; Removing and installing windscreen wiper system .







## 55 – Bonnet, rear lid







# 1 Bonnet

- ⇒ ["1.1 Assembly overview - bonnet", page 17](#)
- ⇒ ["1.2 Assembly overview - bonnet lock and release components", page 18](#)
- ⇒ ["1.3 Assembly overview - release lever and mounting bracket", page 19](#)
- ⇒ ["1.4 Removing and installing bonnet", page 19](#)
- ⇒ ["1.5 Adjusting bonnet", page 22](#)
- ⇒ ["1.6 Bonnet lock and Bowden cable", page 25](#)
- ⇒ ["1.7 Removing and installing striker", page 27](#)
- ⇒ ["1.8 Removing and installing release lever", page 28](#)
- ⇒ ["1.9 Removing and installing hinges", page 28](#)
- ⇒ ["1.10 Removing and installing insulation", page 30](#)
- ⇒ ["1.11 Separating Bowden cable", page 33](#)
- ⇒ ["1.12 Removing and installing adjustable buffer film", page 34](#)
- ⇒ ["1.13 Removing and installing support rod with bracket", page 35](#)

## 1.1 Assembly overview - bonnet

### 1 - Bonnet

- ☐ Removing and installing  
⇒ [page 19](#)
- ☐ Adjusting ⇒ [page 22](#)

### 2 - Adjustment buffer

- ☐ Left and right.
- ☐ Qty. 2 on each side

### 3 - Insulation

- ☐ Removing and installing  
⇒ [page 30](#)

### 4 - Hinge

- ☐ Removing and installing  
⇒ [page 28](#)
- ☐ Adjusting ⇒ [page 22](#)

### 5 - Plenum chamber seal

- ☐ Connected to plenum chamber end wall

### 6 - Lid lock

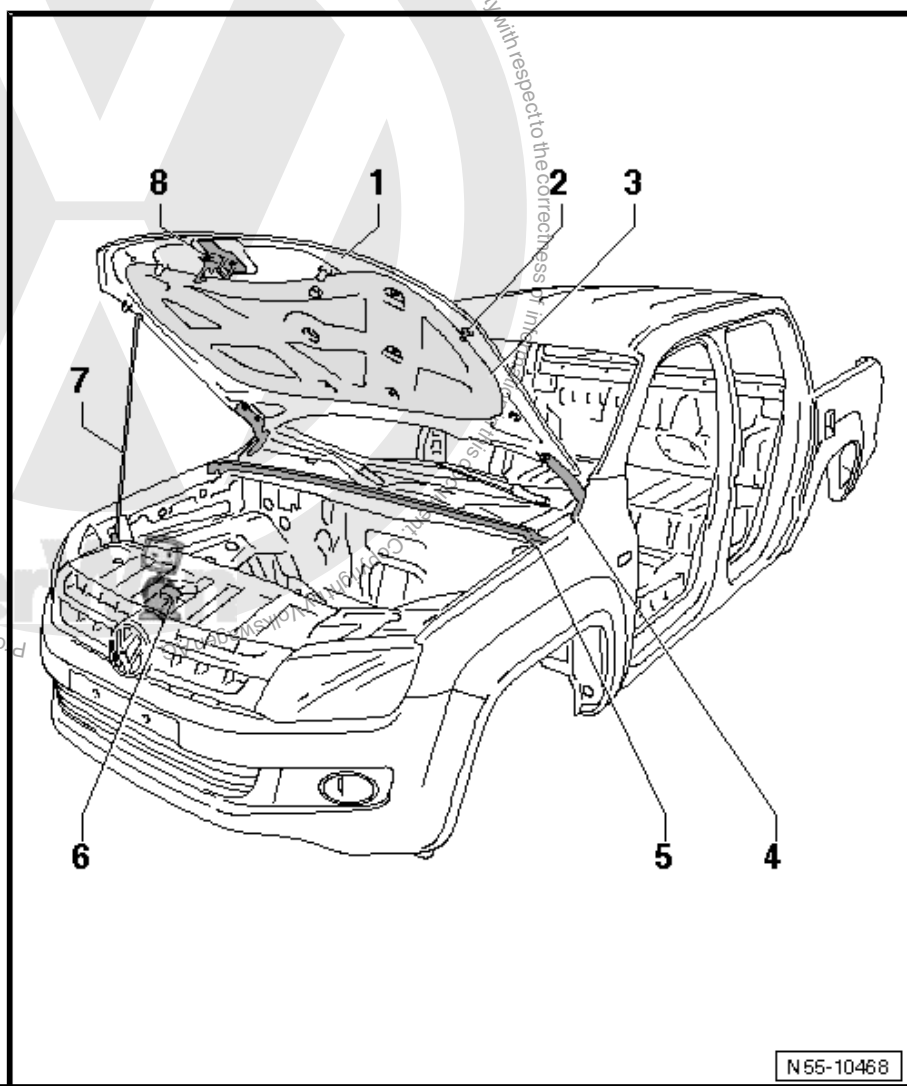
- ☐ Removing and installing  
⇒ [page 25](#)

### 7 - Support rod

- ☐ Removing and installing  
⇒ [page 35](#)

### 8 - Striker

- ☐ Removing and installing  
⇒ [page 27](#)
- ☐ Adjusting ⇒ [page 24](#)



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## 1.2 Assembly overview - bonnet lock and release components

### 1 - Lid lock

- ❑ Removing and installing  
⇒ [page 25](#)

### 2 - Bowden cable coupling

- ❑ Bowden cable coupling is located above headlight on driver side.
- ❑ Separating  
⇒ [page 33](#).

### 3 - Bowden cable

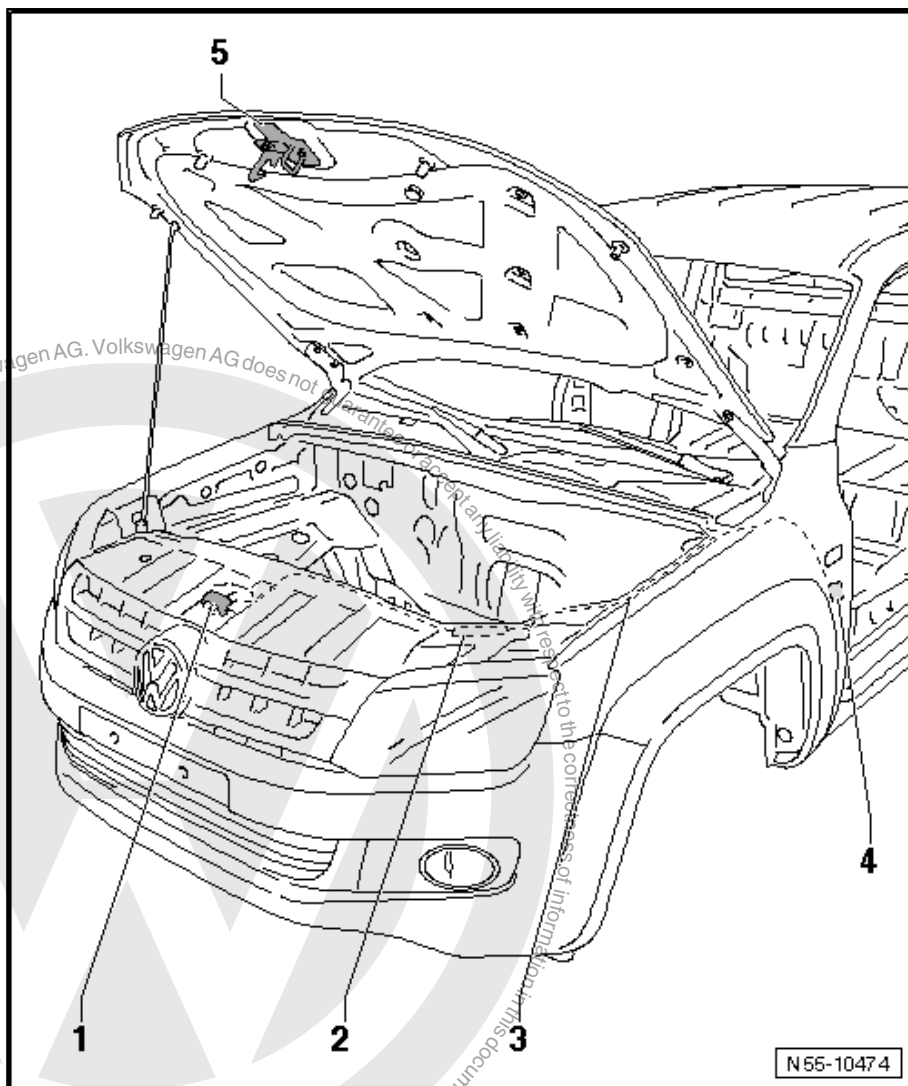
- ❑ From Bowden cable coupling to release lever

### 4 - Release lever

- ❑ Removing and installing  
⇒ [page 28](#)

### 5 - Striker

- ❑ Removing and installing  
⇒ [page 27](#)
- ❑ Adjusting ⇒ [page 24](#)







### 1.3 Assembly overview - release lever and mounting bracket

#### 1 - Mounting bracket

To work on mounting bracket, it is necessary to remove A-pillar trim at bottom ⇒ General body repairs, interior; Rep. gr. 70 ; A-pillar trim at bottom .

#### 2 - Captive nut

- Qty. 2

#### 3 - Bowden cable

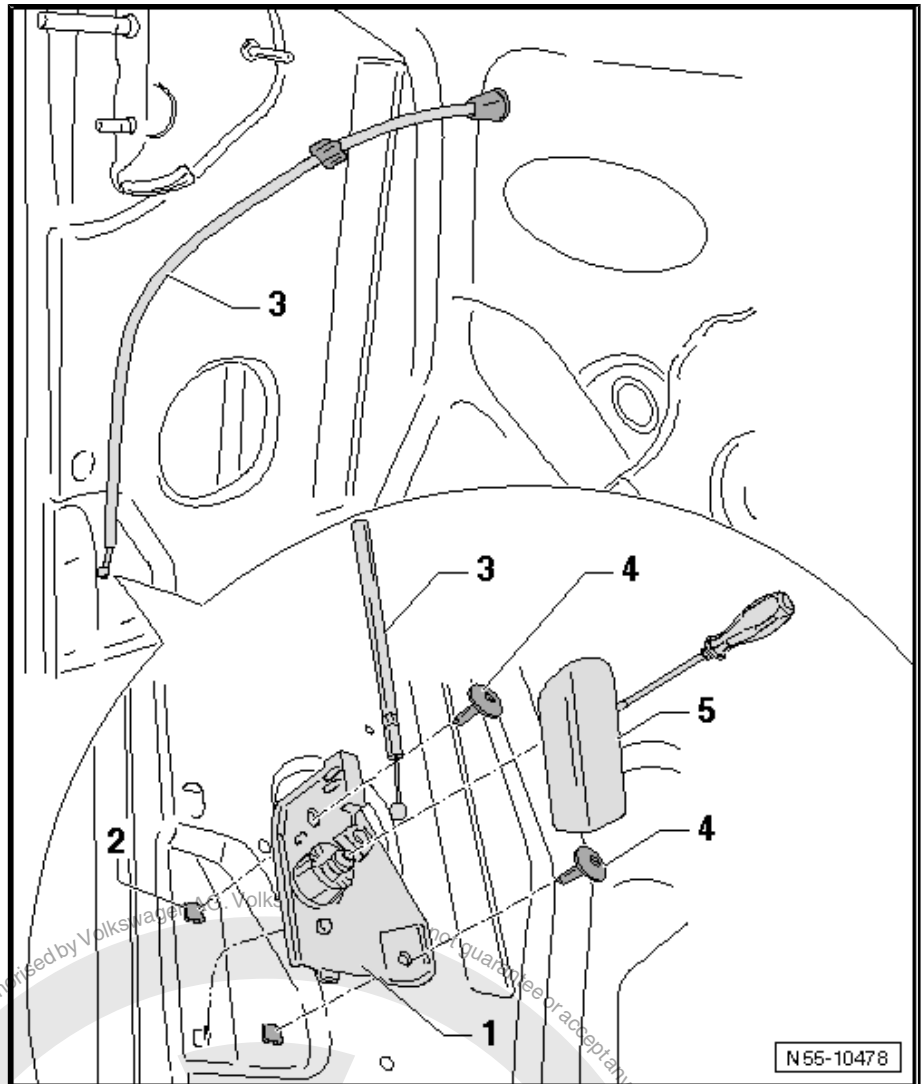
- Installing:
  - Insert ball of Bowden cable into mounting bracket and lock Bowden cable in mounting bracket.

#### 4 - Bolt

- Specified torque: 3.0 Nm
- Qty. 2

#### 5 - Release lever

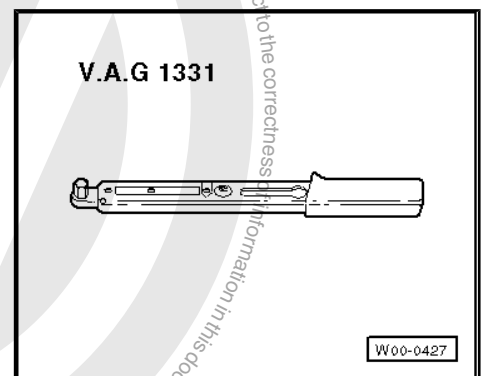
- Removing and installing  
⇒ [page 28](#)



### 1.4 Removing and installing bonnet

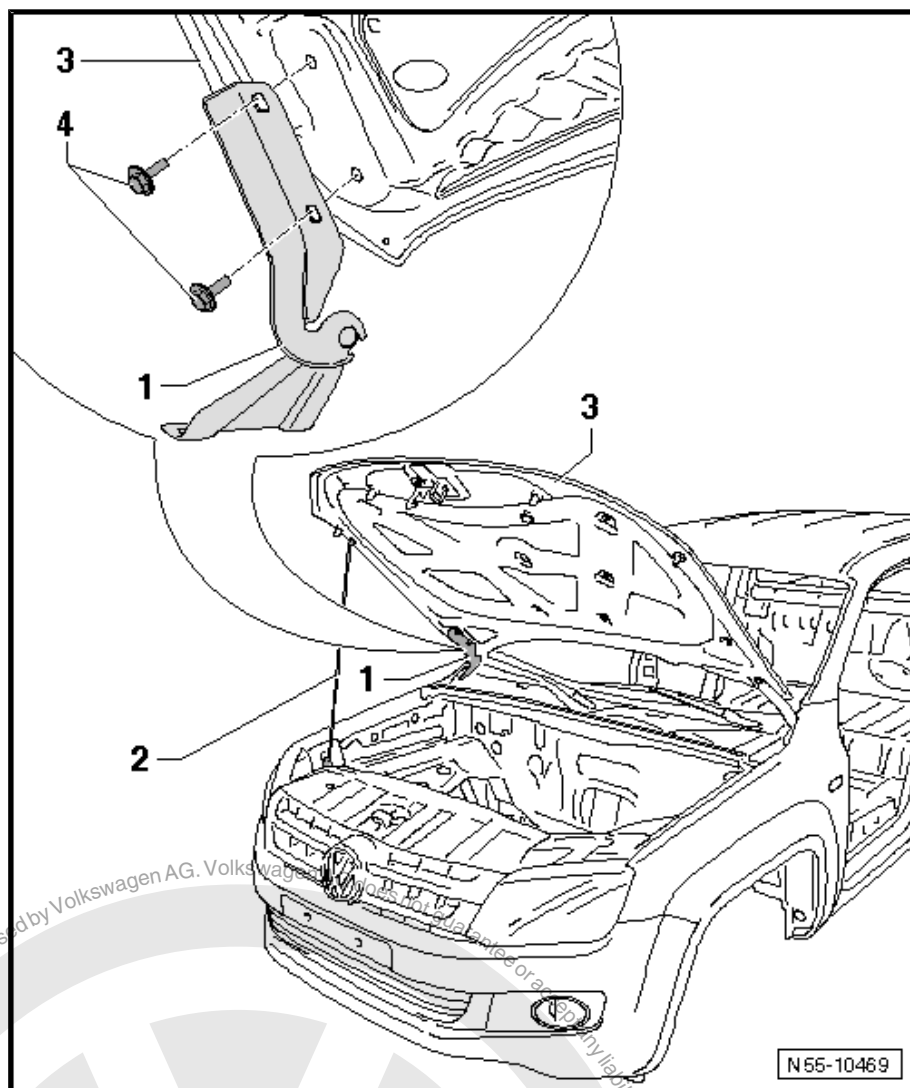
#### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-



#### Removing





– Removing washer jets ⇒ Electrical system; Rep. gr. 92 ; Window washer system; Removing and installing washer jets for window washer system .

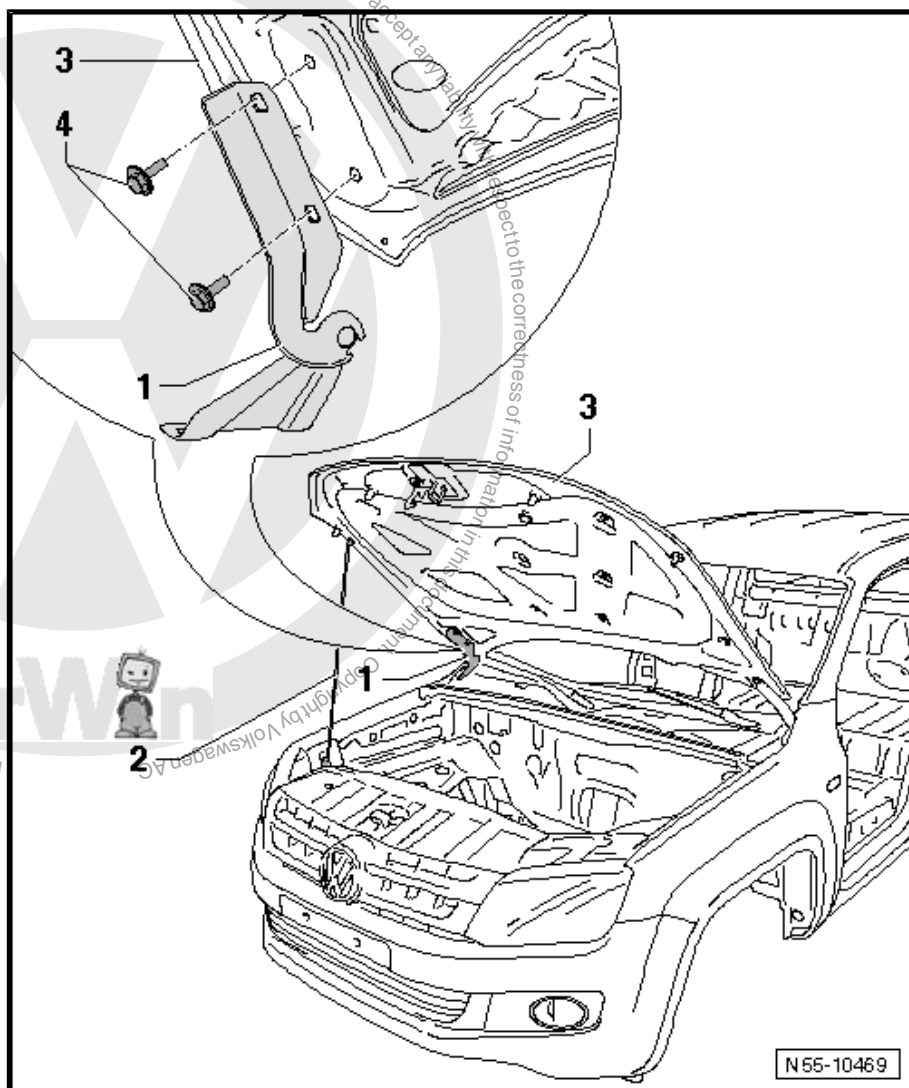
- Pull line out of opening in bonnet -3-.
- Loosen bolts -3- on left and right hinges -2- (do not remove).

Further dismantling requires the help of a second mechanic.

- Remove support rod -2- from bonnet -3-.
- Only now remove bolts -4- and remove bonnet -3- from hinges -1-.

### Installing





Installation is carried out in reverse order. When doing this, observe the following:

- Adjusting bonnet -3- ⇒ [page 22](#) .

#### Specified torques

Component	Specified torques
Hinge bolts	30 Nm



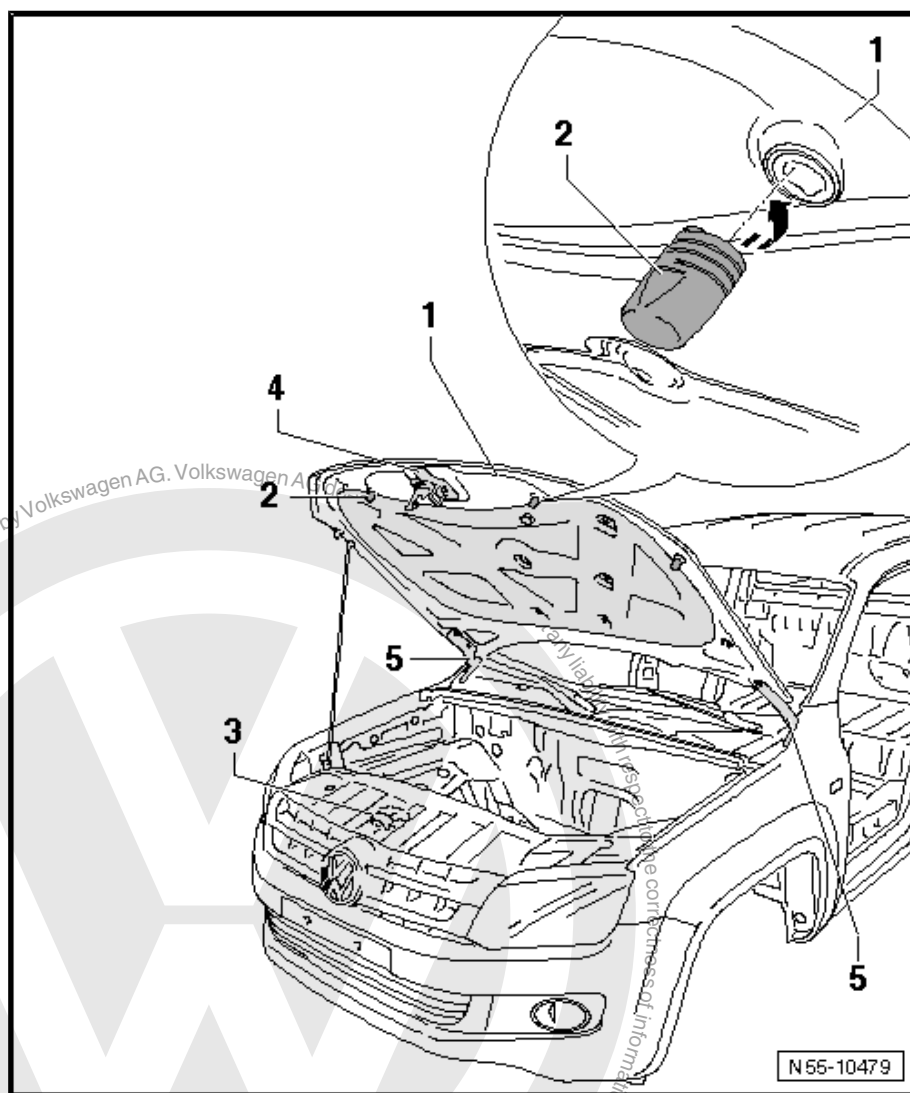


## 1.5 Adjusting bonnet



### Note

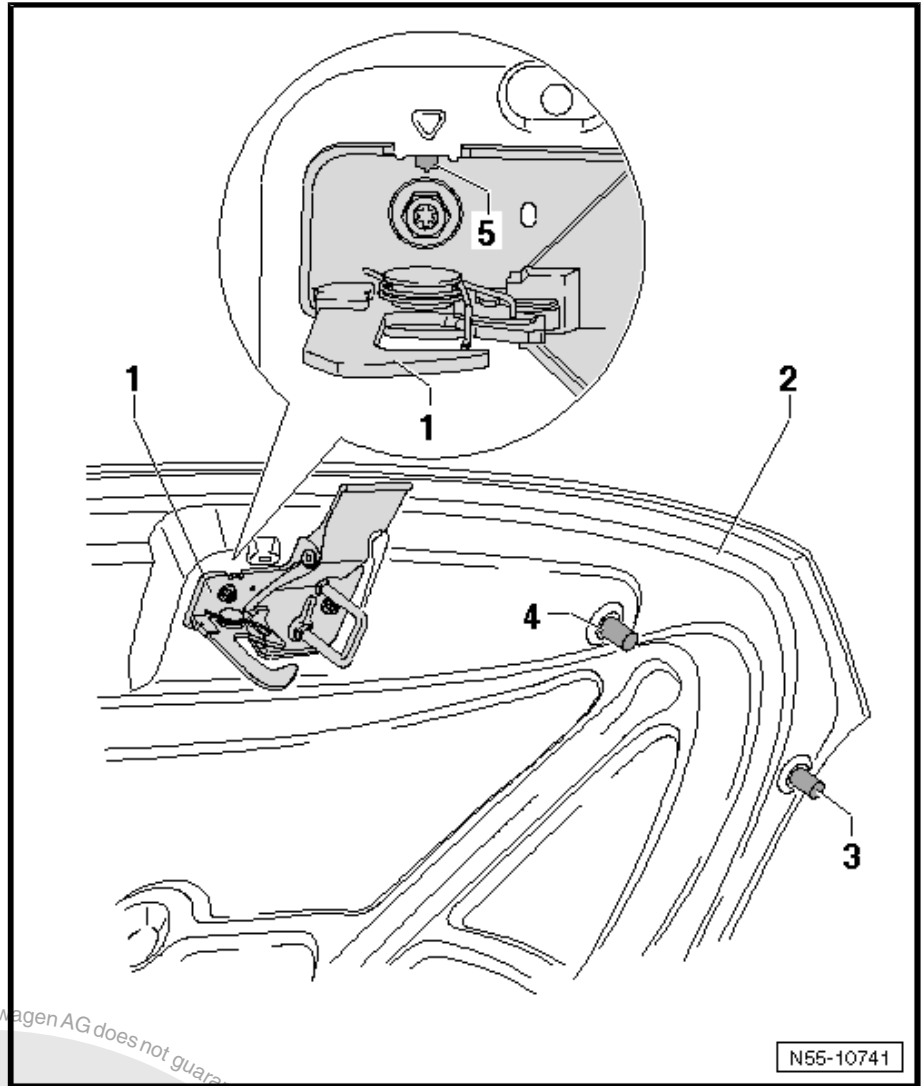
- ◆ Vehicle must be on the ground when adjusting bonnet -1-.
- ◆ Adjustment via outer adjustment buffer and inner centring buffer -2-, striker -4- and bonnet lock -3-.
- ◆ The bonnet -1- is correctly adjusted when all shut lines are even when closed. When the door does not project in or out too far and the contours align.
- ◆ The bonnet -1- must engage into the bonnet lock without excessive force.



- Bonnet -1- can be centred further by a small amount between wings by slightly loosening bolts -5- on left and right bonnet hinges.
- Unscrew inner centring buffers -4- with bonnet closed until it makes stress-free contact with opposite side.

### Adjusting bonnet





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- Remove front bumper cover ⇒ [page 236](#) .
- Screw in adjustment buffer -3- and centring buffer -4- to stop.
- Close bonnet -2-.
- Adjust alignment of bonnet -2- and wings at front corners by screwing in or unscrewing outer adjustment buffers -3- with bonnet slightly raised.
- Open bonnet -2-.
- Screw in adjustment buffer -3- into bonnet -2- by 180°.
- Bolt on striker -1- in a centred position (note marking -5-).
- Loosen bolts on bonnet lock until bonnet lock can be moved freely on bolts ⇒ [page 25](#) .
- Close bonnet -2- so that striker engages in bonnet lock.
- Tighten bonnet lock bolts to specified torque (with bonnet -2- closed) ⇒ [page 25](#) .
- Release and open bonnet -2-. Turn adjustment buffer -3- 180° out. Close bonnet.





## Note

Make sure bonnet and wings are correctly aligned at front corners. If necessary, repeat the work procedure.

## Adjusting striker

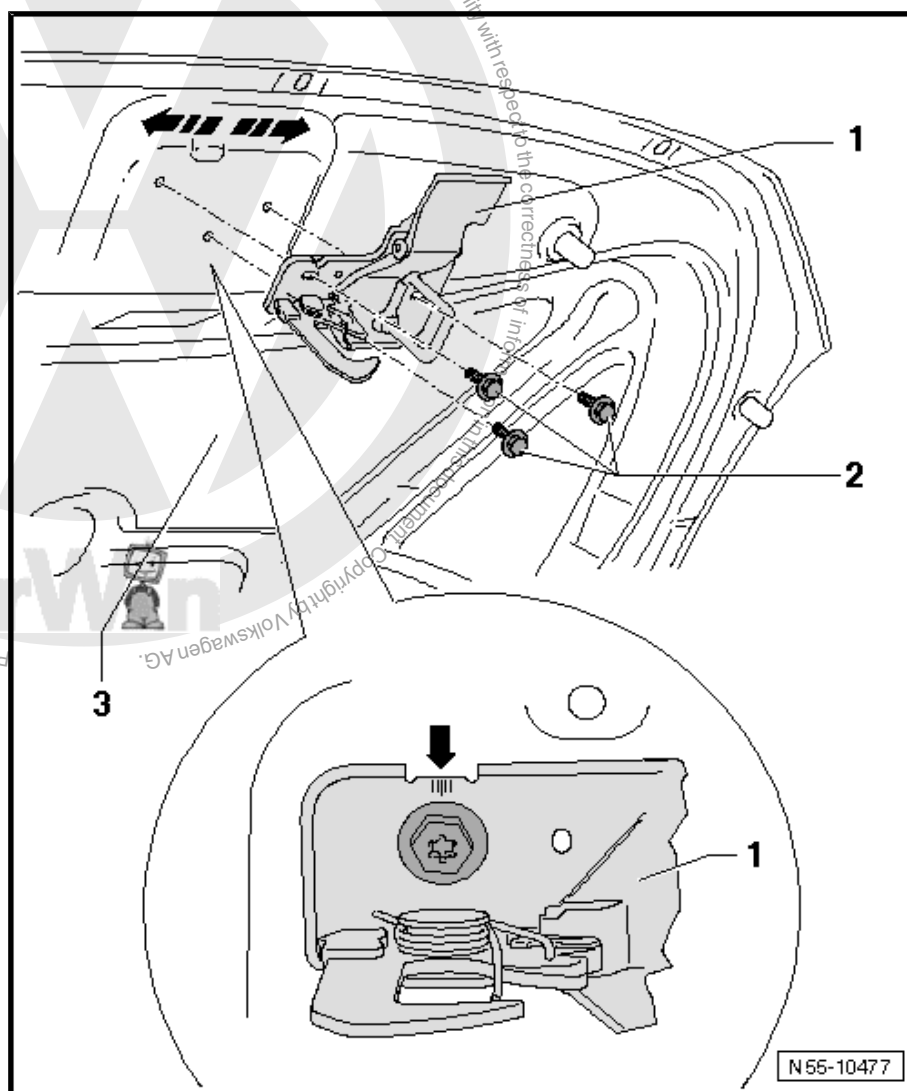
### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-

V.A.G 1331



W00-0427



N55-10477

- Loosen bolts -2-.





- Striker -1- can be adjusted in its slots in -direction of arrow- to left and right on bonnet -3-.
- Bolt on striker -1- in a centred position.



#### Note

- ◆ Note markings -arrow- on striker -1- and bonnet.
- ◆ The bolts -2- may only be loosened and retightened up to 3 times.

#### Specified torques

Component	Specified torques
Striker bolts	10 Nm

## 1.6 Bonnet lock and Bowden cable

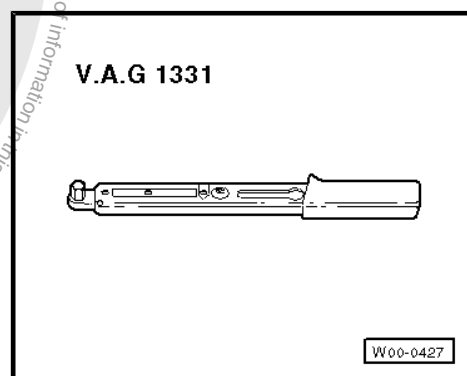
➔ ["1.6.1 Removing and installing bonnet lock and Bowden cable", page 25](#)

➔ ["1.6.2 Bonnet lock, from model year 2013", page 27](#)

### 1.6.1 Removing and installing bonnet lock and Bowden cable

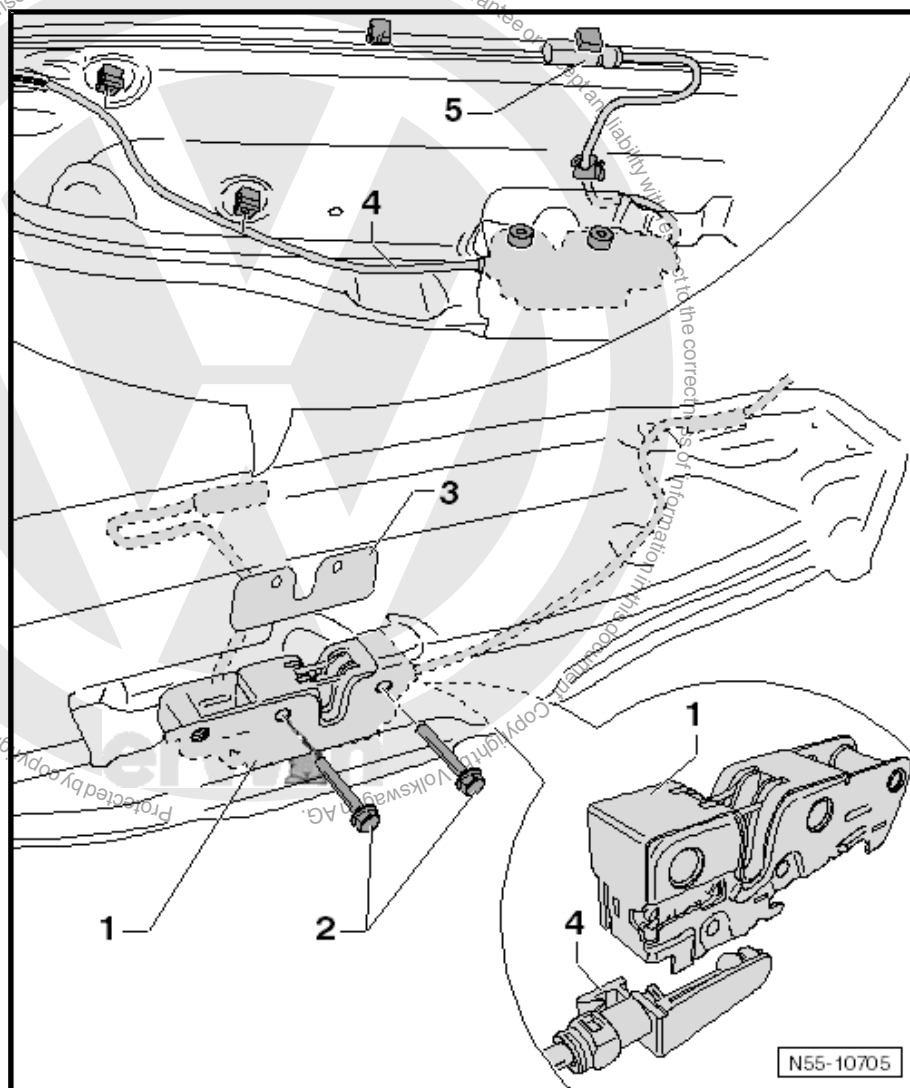
#### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-



#### Removing





- Open bonnet.
- Detach Bowden cable at Bowden cable coupling  
⇒ [page 33](#).
- Unclip Bowden cable -4- from lock carrier.
- Separate connector -5- for bonnet contact switch.
- Remove bolts -2- from lock carrier.

**Bonnet lock bolts, from 2013 ⇒ [page 27](#)**

- Withdraw lid lock -1- with attachment plate -3- (if fitted) upwards.
- Unclip Bowden cable -4- from lid lock -1-.

**Installing**

- Insert lid lock -1- with attachment plate -3- (if fitted) into lock carrier.



**Note**

*Attachment plate -3- sits between lock support and lock carrier.*

- Connect connector -5- for bonnet contact switch.





- Attach Bowden cable to Bowden cable coupling  
⇒ [page 33](#) .
- Clip in Bowden cable -4- on lock carrier.
- Before closing bonnet, check function of release lever and Bowden cable.

#### Specified torques

- ◆ ⇒ ["1.6.2 Bonnet lock, from model year 2013", page 27](#)

### 1.6.2 Bonnet lock, from model year 2013

#### 1 - Lock carrier

- ☐ Removing and installing  
⇒ [page 4](#) .

#### 2 - Bonnet lock

- ☐ Removing and installing  
⇒ [page 25](#) .

#### 3 - Securing plate

#### 4 - Bolt

- ☐ Qty. 2



#### WARNING

*Bolts must always be replaced by new ones after being removed.*

- ☐ Specified torques: 20 Nm + 180°

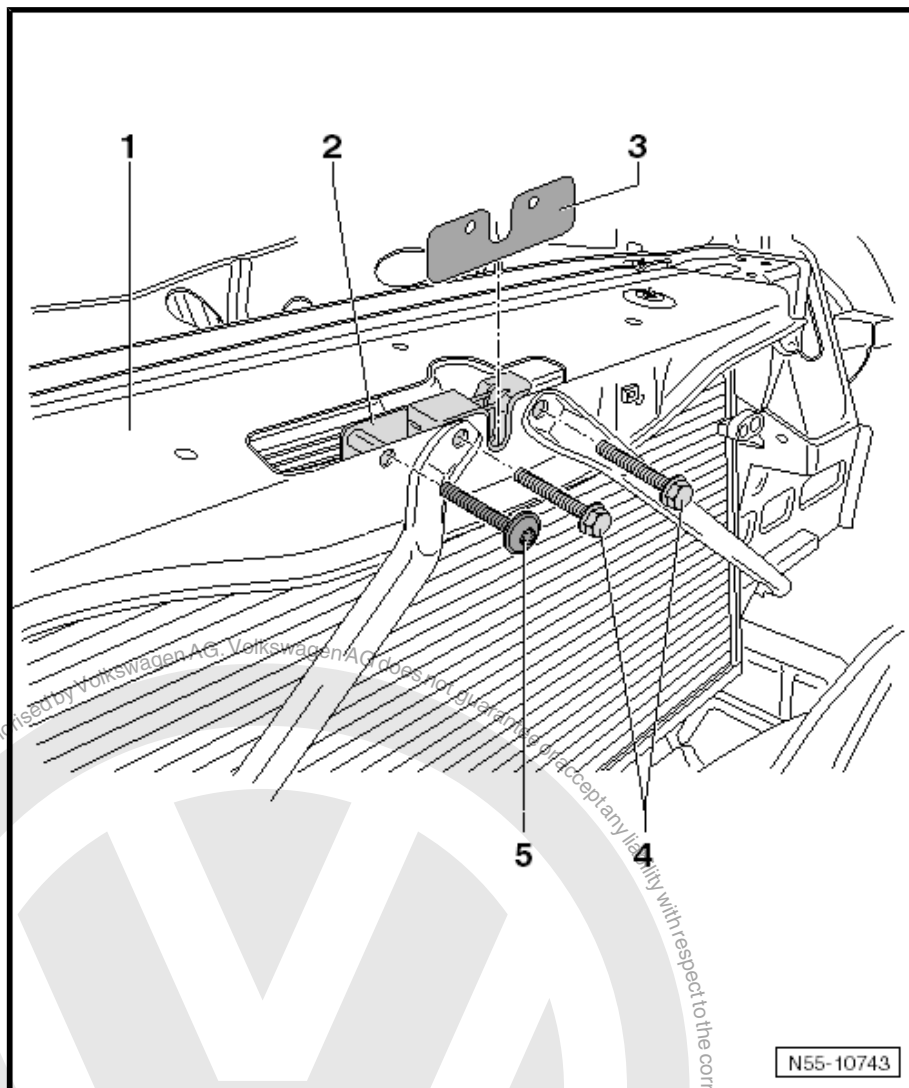
#### 5 - Bolt



#### WARNING

*Always renew bolt after loosening.*

- ☐ Specified torques: 10 Nm



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### 1.7 Removing and installing striker

#### Removing

- Remove bolts -2-.





- Remove striker -1- from bonnet.

#### Installing

- Install striker -1- on bonnet.

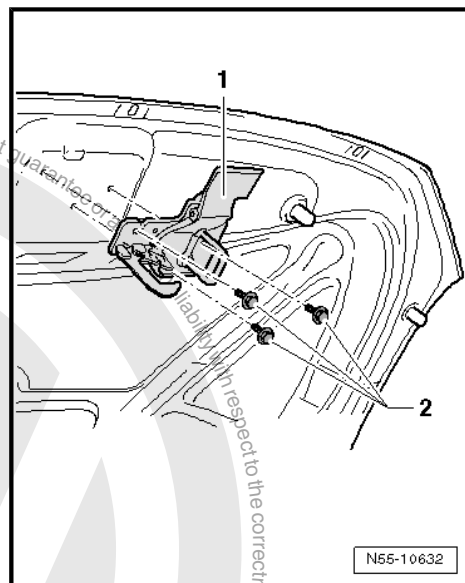


#### Note

*The bolts -2- may only be loosened and retightened up to 3 times.*

#### Specified torques

- ♦ Adjusting striker pin ⇒ [page 24](#) .



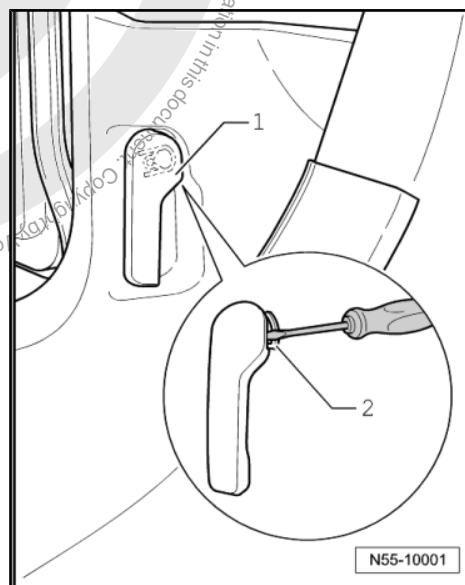
## 1.8 Removing and installing release lever

#### Removing

- Tighten release lever -1- and unlock bonnet.
- Insert a small screwdriver in gap between release lever -1- and retaining clip -2-.
- Lever retaining clip -2- out of release lever -1- and remove release lever from mounting bracket.

#### Installing

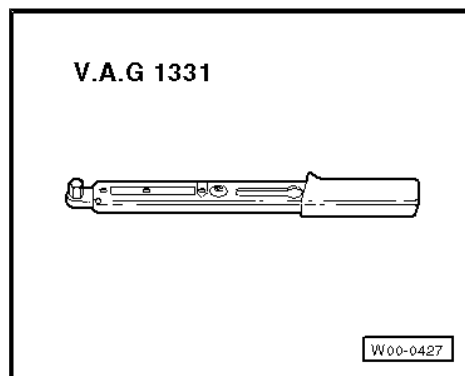
- Push retaining clip -2- completely into release lever -1-.
- Press release lever -1- onto mounting in mounting bracket and lock release lever.
- Before closing bonnet, check function of release lever and Bowden cable.



## 1.9 Removing and installing hinges

#### Special tools and workshop equipment required

- ♦ Torque wrench -V.A.G 1331-



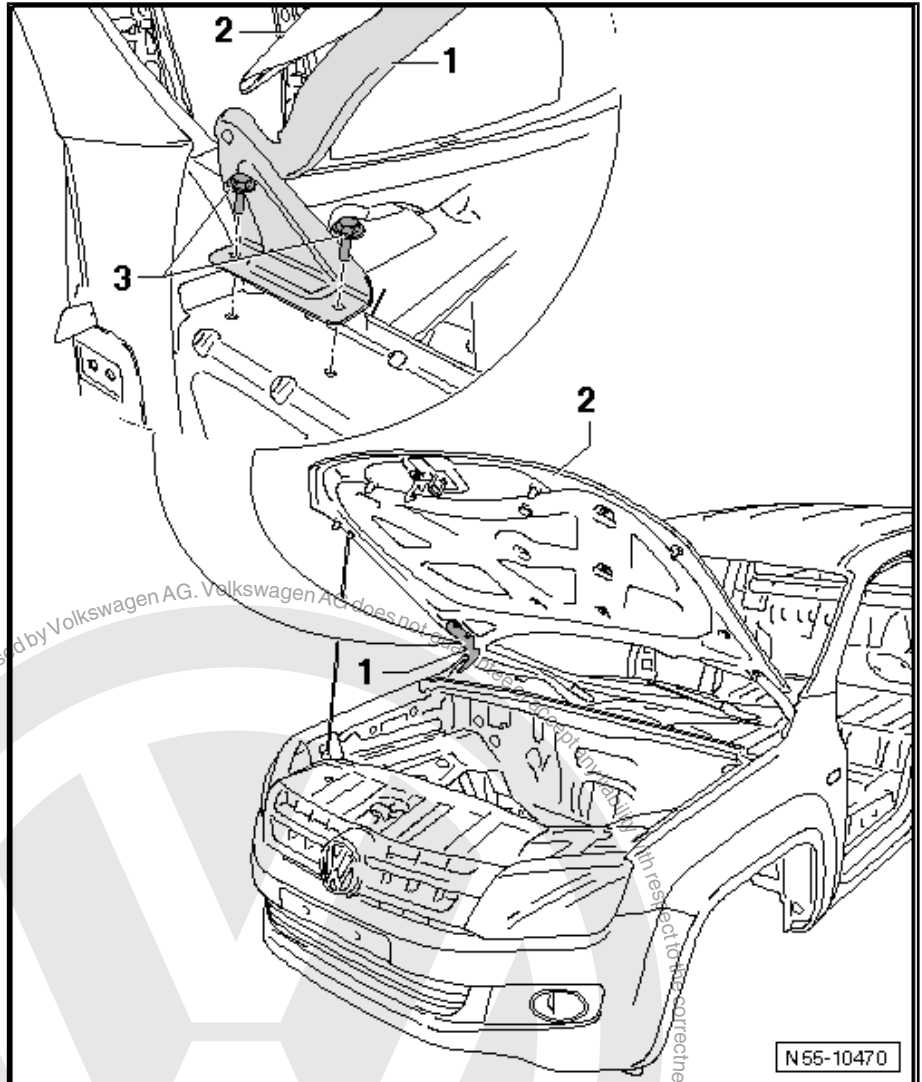




#### Note

*Removal and installation are described for the right hinge only.  
Removal and installation of the left hinge are similar.*

#### Removing



- Remove wing ⇒ [page 8](#) .
- Removing bonnet -2- ⇒ [page 19](#)
- Remove bolts -3-.
- Pull off hinge -1-.

#### Installing

Installation is carried out in reverse order. When doing this, observe the following:

- Adjust bonnet if hinge -1- has been renewed





## Note

Carry out corrosion protection measures on lid hinge and securing bolts after assembly and adjustment work.

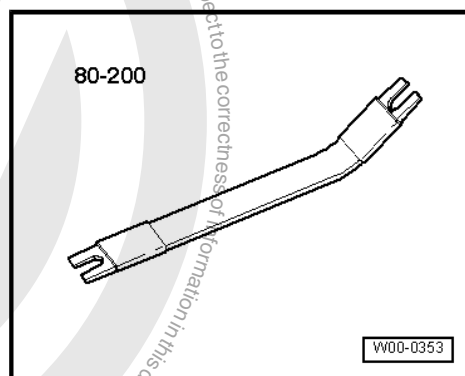
## Specified torques

Component	Specified torques
Hinge bolts	30 Nm

## 1.10 Removing and installing insulation

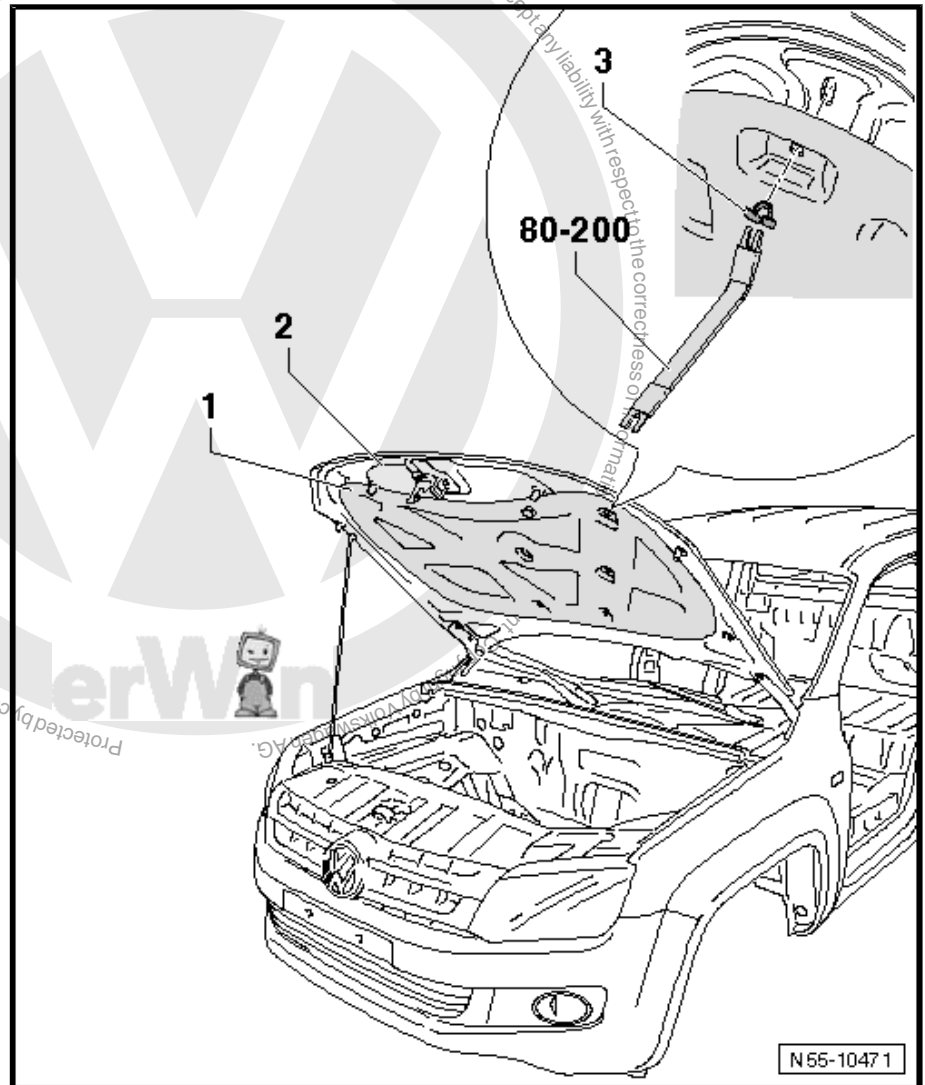
### Special tools and workshop equipment required

- ◆ Removal lever -80 - 200-



## Removing

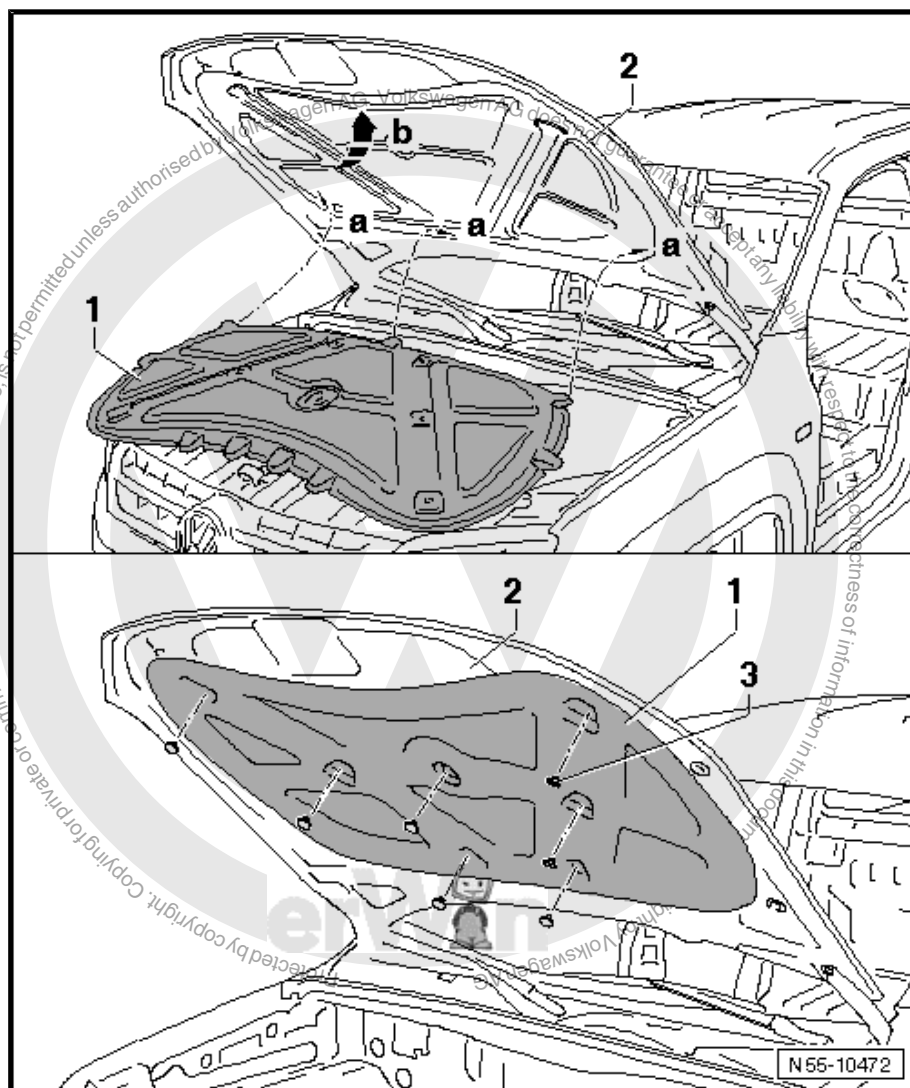




- Lever retaining clips -3- (qty. 7) out of bonnet -2- using removal lever -80-200- .
- Pull insulation -1- out of longitudinal holes.

#### Installing



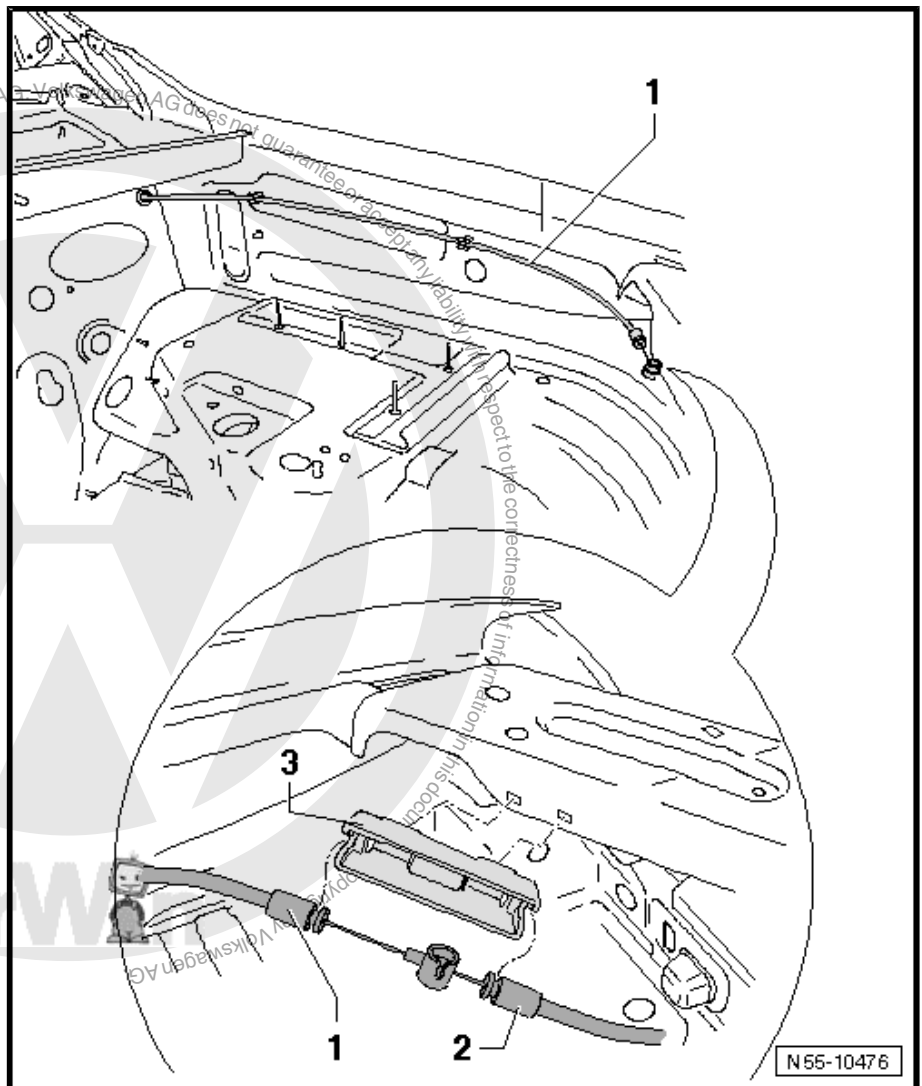


- When installing insulation -1-, ensure that retaining clips -3- are fitted with wider side outwards.
- Push insulation -1- with mounting tabs into slots -arrows a- and then slots -arrows b-.
- Insert retaining clips -3- into bonnet -2-.





## 1.11 Separating Bowden cable



### Removing

- Open bonnet.
- Unclip Bowden cable mounting -3- above headlight on driver side at lock carrier.
- Remove Bowden cables -1- and -2- from Bowden cable mounting -3- and disconnect.

### Installing



#### Note

*When installing, ensure that Bowden cables -1- and -2- are correctly connected in Bowden cable mounting -3-.*

- Before closing bonnet, check function of release lever and Bowden cable.





## 1.12 Removing and installing adjustable buffer film



### Note

- ◆ *Renewing anti-abrasion film is described only for the left side. The right side is similar.*
- ◆ *Anti-abrasion film for adjustment buffer cannot be removed without causing damage.*
- Pull backing off anti-abrasion film -1-.
- Position anti-abrasion film -1- on front lock carrier and press on firmly.

### Installation instructions

Before removing anti-abrasion film, heat film with hot air blower - V.A.G 1416- .

If the anti-abrasion film is installed for the first time on a new vehicle or on newly painted surfaces, follow the procedure in ⇒ Workshop manual "Paint"; ⇒ Paintwork repairs; ⇒ Paint finish; ⇒ Mouldings and film .

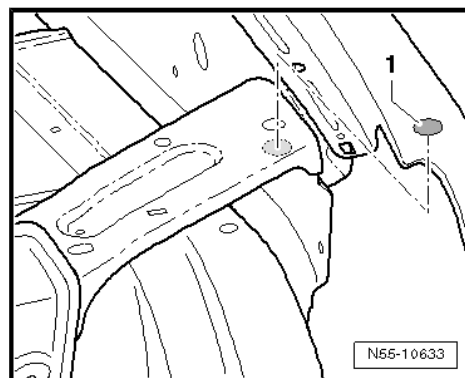
If anti-abrasion film is removed and reinstalled, only use adhesive remover -D 002 000 10- to remove the adhesive remains.

Ensure that the adhesive surfaces are free of dust and grease.

Position and apply anti-abrasion film immediately after cleaning

Remove backing from anti-abrasion film only immediately before installation.

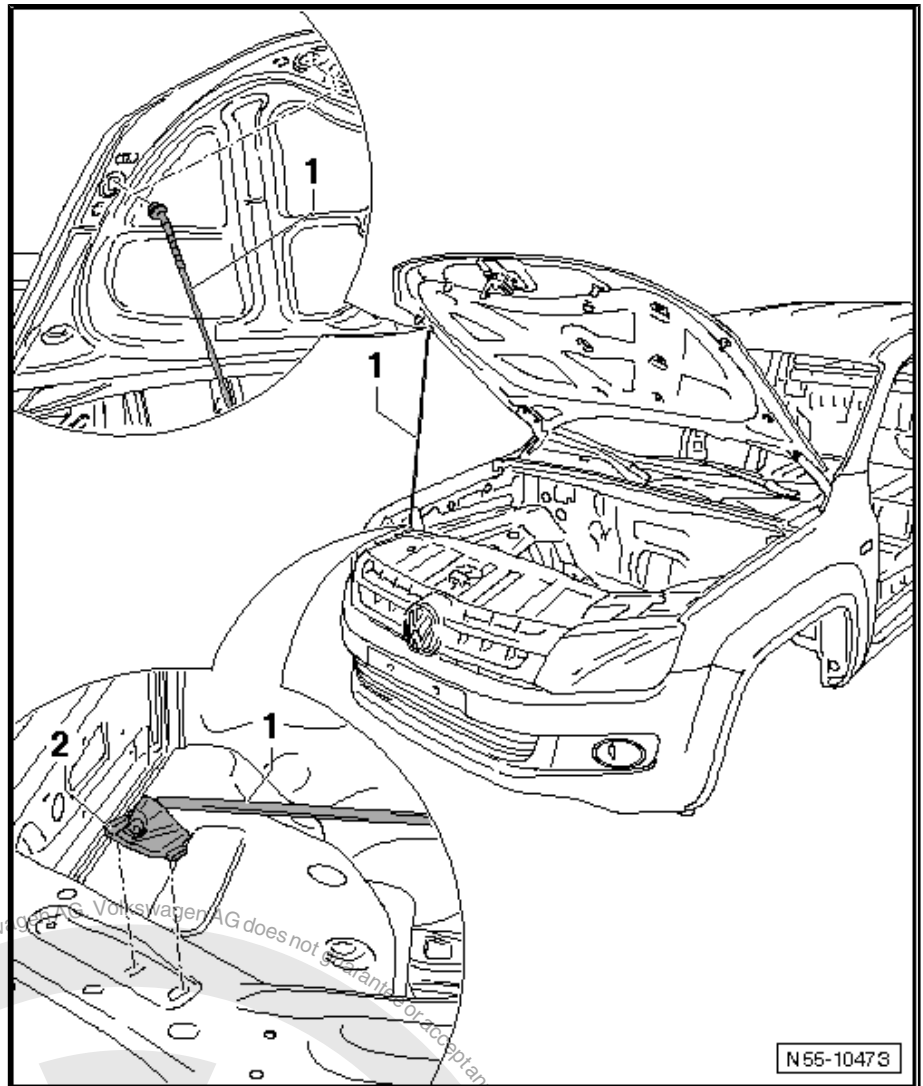
Working temperature is approx. 21 °C.







## 1.13 Removing and installing support rod with bracket



### Removing

- Brace the bonnet open.
- Unclip mounting bracket -2- with support rod -1- from front lock carrier.

### Installing



#### Note

*Check mounting bracket -2- for damage, renew if necessary.*

- Guide end with hook into lock carrier.
- Position bracket -2- with support rod -1- and clip into front of lock carrier.









## 2 Tailgate

- ⇒ ["2.1 Assembly overview - add-on parts on tailgate", page 37](#)
- ⇒ ["2.2 Assembly overview - tailgate with torsion bar", page 38](#)
- ⇒ ["2.3 Assembly overview - hinge", page 39](#)
- ⇒ ["2.4 Assembly overview - tailgate lock", page 40](#)
- ⇒ ["2.5 Assembly overview - tailgate handle", page 41](#)
- ⇒ ["2.6 Assembly overview - tailgate handle with lock cylinder", page 42](#)
- ⇒ ["2.7 Assembly overview - arrester cable, tailgate", page 42](#)
- ⇒ ["2.8 Assembly overview - tailgate spacer", page 45](#)
- ⇒ ["2.9 Assembly overview - tailgate seals", page 45](#)
- ⇒ ["2.10 Removing and installing tailgate", page 45](#)
- ⇒ ["2.11 Adjusting tailgate", page 47](#)
- ⇒ ["2.12 Removing and installing hinge", page 47](#)
- ⇒ ["2.13 Removing and installing tailgate lock", page 49](#)
- ⇒ ["2.14 Removing and installing tailgate handle", page 51](#)
- ⇒ ["2.15 Removing and installing tailgate handle with lock cylinder", page 52](#)
- ⇒ ["2.16 Removing and installing striker plate", page 54](#)
- ⇒ ["2.17 Removing and installing torsion bar", page 56](#)

### 2.1 Assembly overview - add-on parts on tailgate

#### 1 - Tailgate

- ☐ Removing and installing  
⇒ [page 45](#)

#### 2 - Handle

- ☐ Removing and installing  
⇒ [page 51](#)

#### 3 - Lock

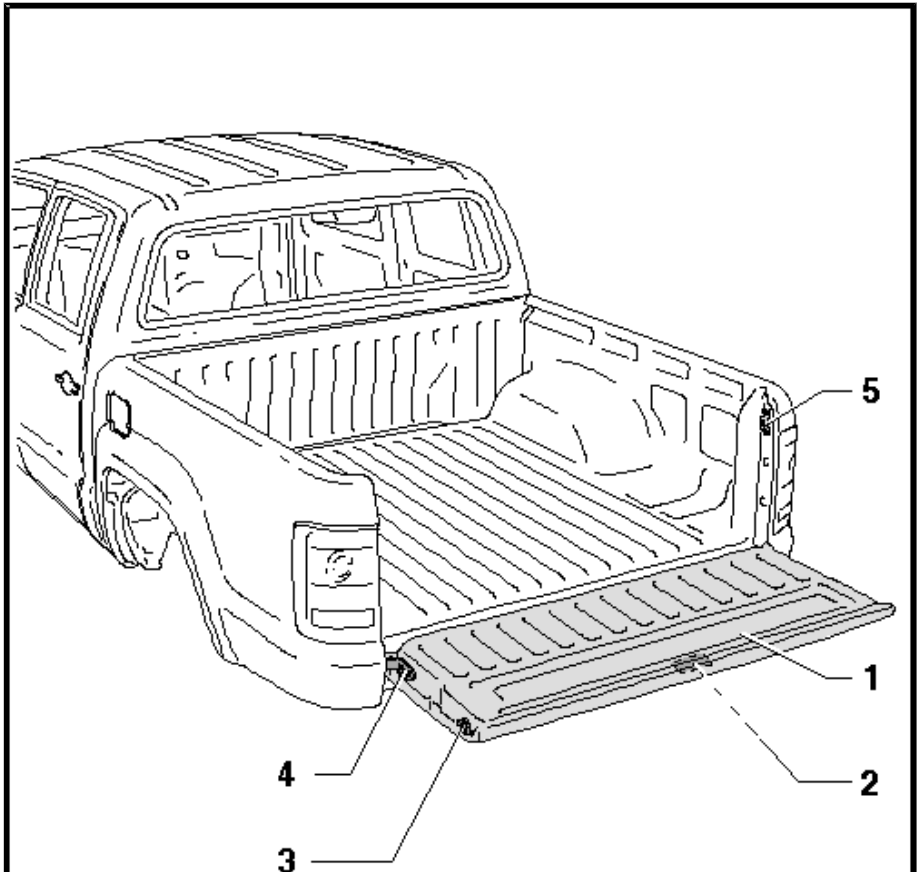
- ☐ Removing and installing  
⇒ [page 49](#)

#### 4 - Hinges

- ☐ Removing and installing  
⇒ [page 47](#)

#### 5 - Locking wedge

- ☐ Removing and installing  
⇒ [page 54](#)
- ☐ Adjusting ⇒ [page 47](#)







## 2.2 Assembly overview - tailgate with torsion bar

### 1 - Tailgate

- Removing and installing  
⇒ [page 45](#).

### 2 - Middle bracket

### 3 - Washer

### 4 - Bolt

- Specified torques: 25  
Nm

### 5 - Rear panel

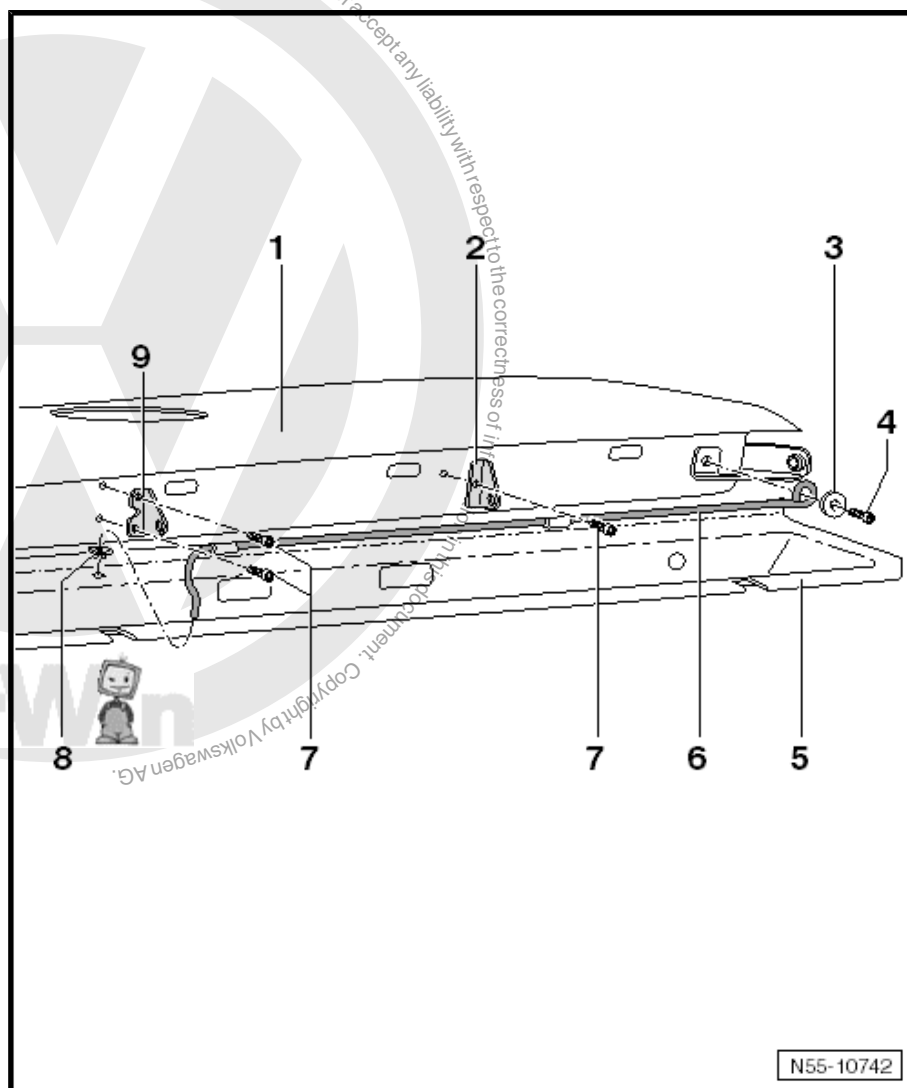
### 6 - Torsion bar

### 7 - Bolt

- Qty. 3
- Specified torques: 8.0  
Nm

### 8 - Clip

### 9 - Bracket







## 2.3 Assembly overview - hinge

### 1 - Tailgate

- ❑ Removing and installing  
⇒ [page 45](#)

### 2 - Bolt

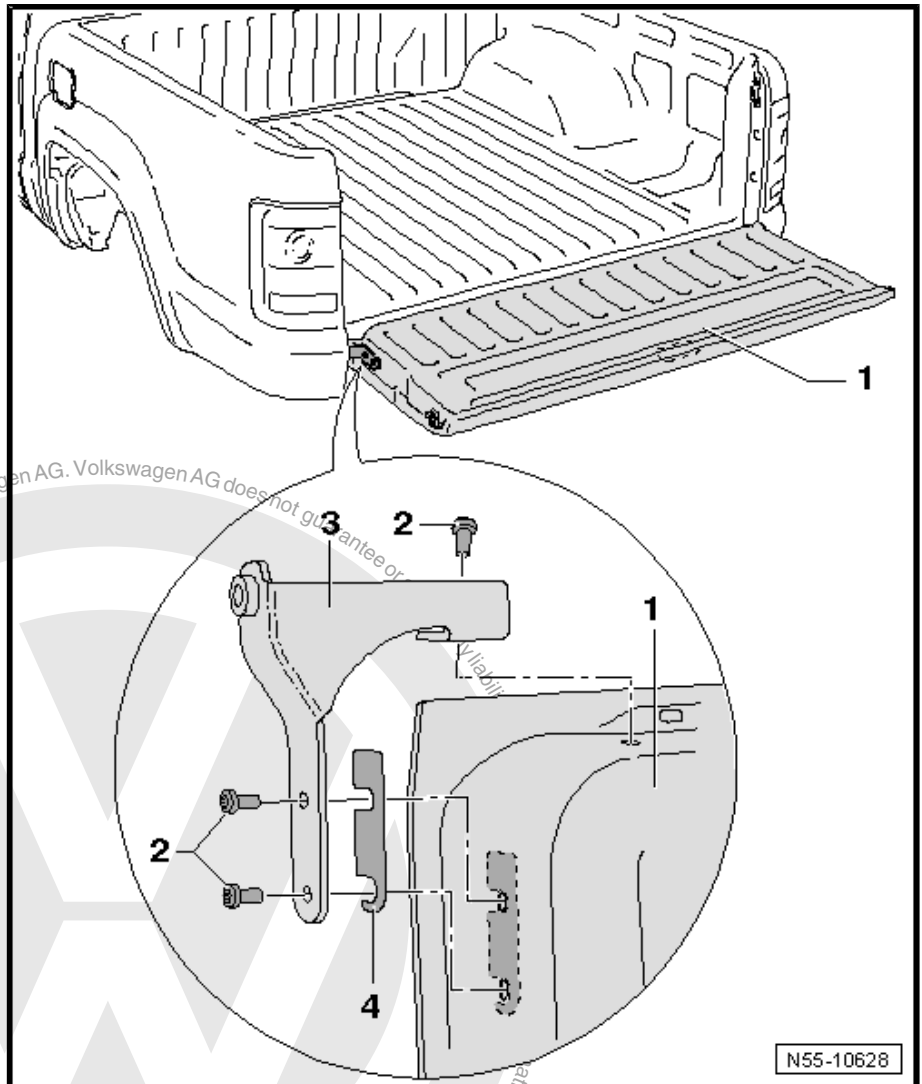
- ❑ Qty. 3 on each side
- ❑ Specified torques: 25 Nm

### 3 - Hinge

- ❑ Left and right.
- ❑ Removing and installing  
⇒ [page 47](#)

### 4 - Base

- ❑ Left and right.







## 2.4 Assembly overview - tailgate lock



### Note

Only the left side is shown. The right side is similar.

#### 1 - Lock

- ❑ Removing and installing  
⇒ [page 49](#)

#### 2 - Bolt

- ❑ Qty. 2
- ❑ Specified torques: 20 Nm.

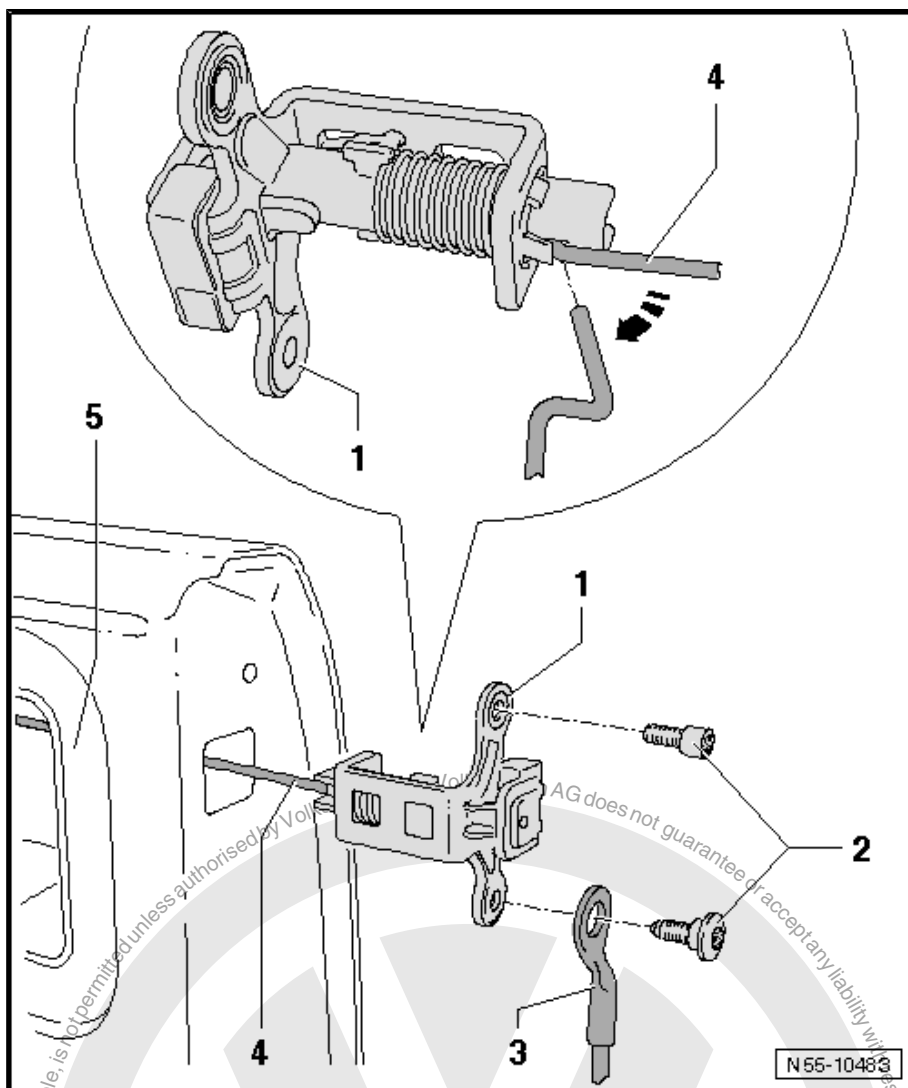
#### 3 - Arrester cable

#### 4 - Pull rod

- ❑ To handle

#### 5 - Tailgate

- ❑ Removing and installing  
⇒ [page 45](#)







## 2.5 Assembly overview - tailgate handle

### 1 - Tailgate handle

- ❑ Removing and installing  
⇒ [page 51](#)

### 2 - Bolt

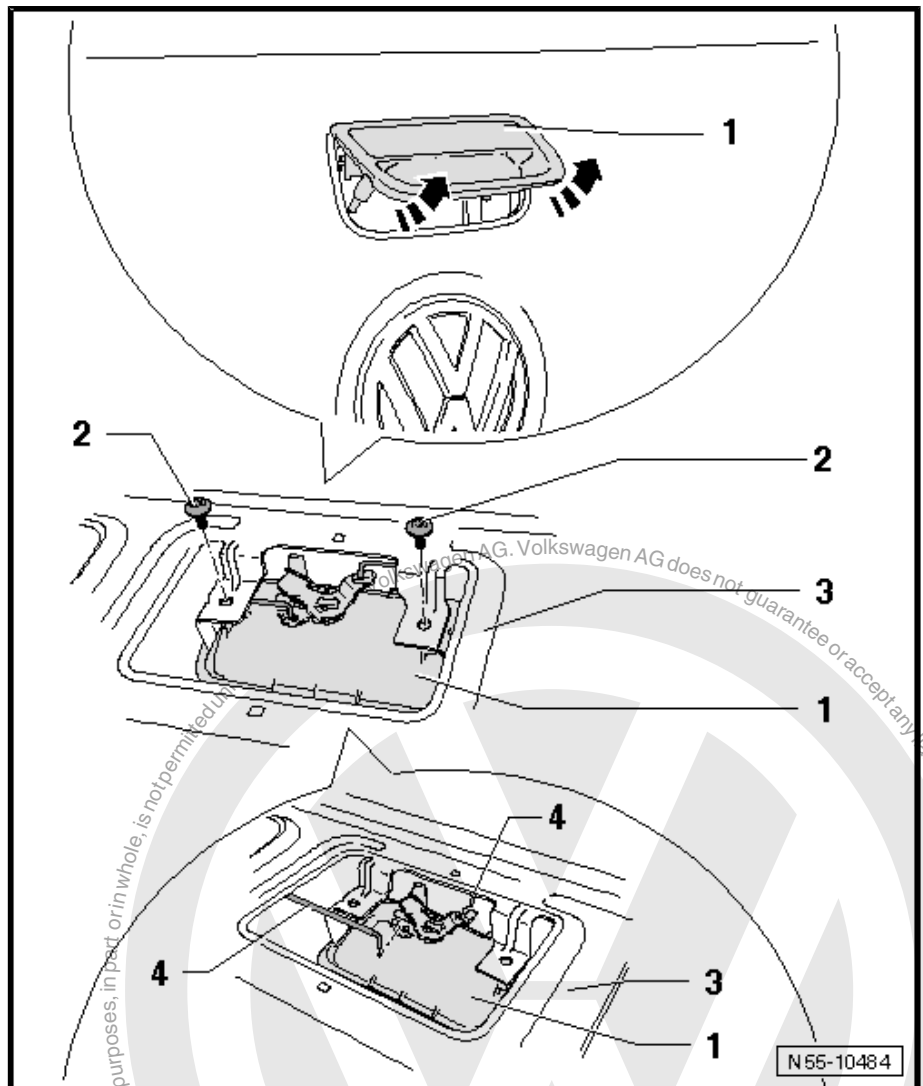
- ❑ Qty. 2
- ❑ Specified torques: 2.3 Nm

### 3 - Tailgate

- ❑ Removing and installing  
⇒ [page 45](#)

### 4 - Pull rod

- ❑ Left and right.
- ❑ To lock ⇒ [page 40](#)







## 2.6 Assembly overview - tailgate handle with lock cylinder

### 1 - Tailgate handle

- ☐ With lock cylinder
- ☐ Removing and installing  
⇒ [page 52](#) .

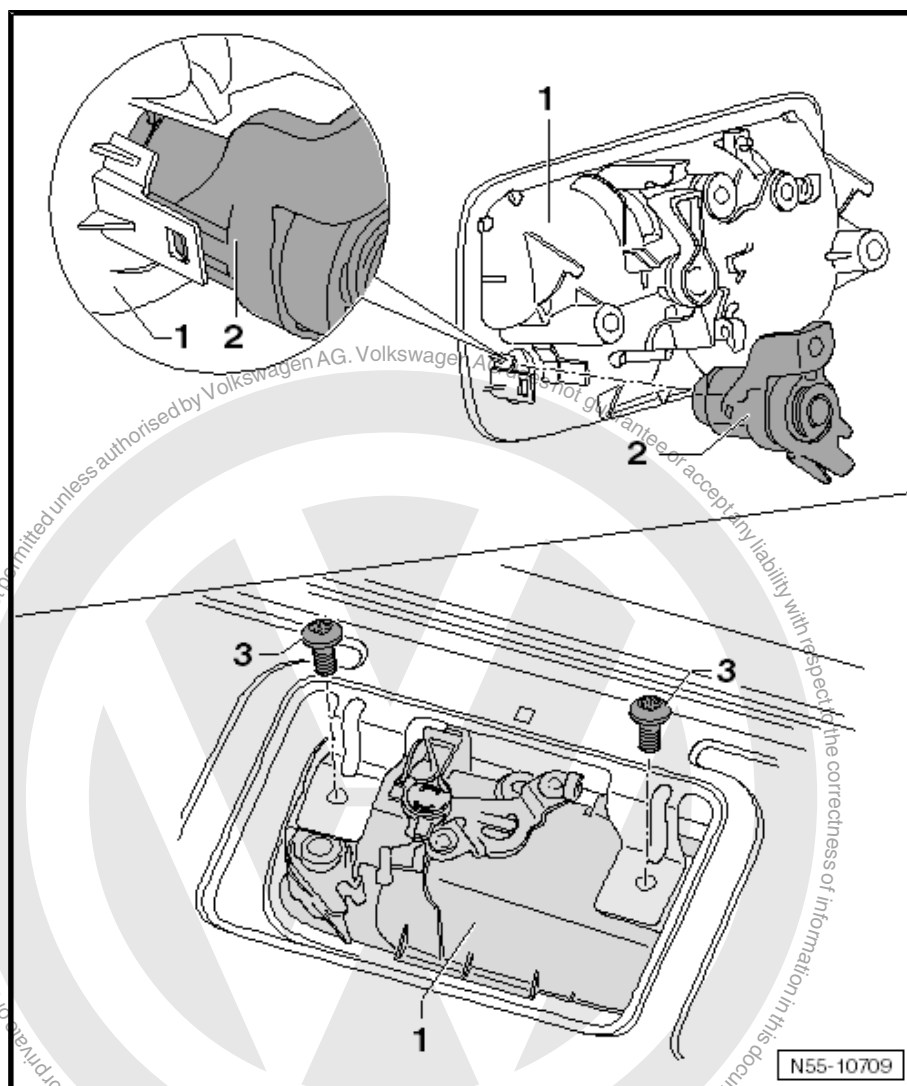
### 2 - Lock cylinder



Note

### 3 - Bolt

- ☐ Qty. 2
- ☐ Specified torques: 2.3 Nm



## 2.7 Assembly overview - arrester cable, tailgate

⇒ [“2.7.1 Arrester cable, tailgate ► 2010”, page 43](#)

⇒ [“2.7.2 Arrester cable, tailgate 2011 ►”, page 44](#)





## 2.7.1 Arrester cable, tailgate ► 2010

### Note

- ◆ Only the left side is shown. The right side is similar.
- ◆ Bolt -1- must be screwed in completely in one operation. Subsequent tightening is not permitted.

#### 1 - Bolt



#### WARNING

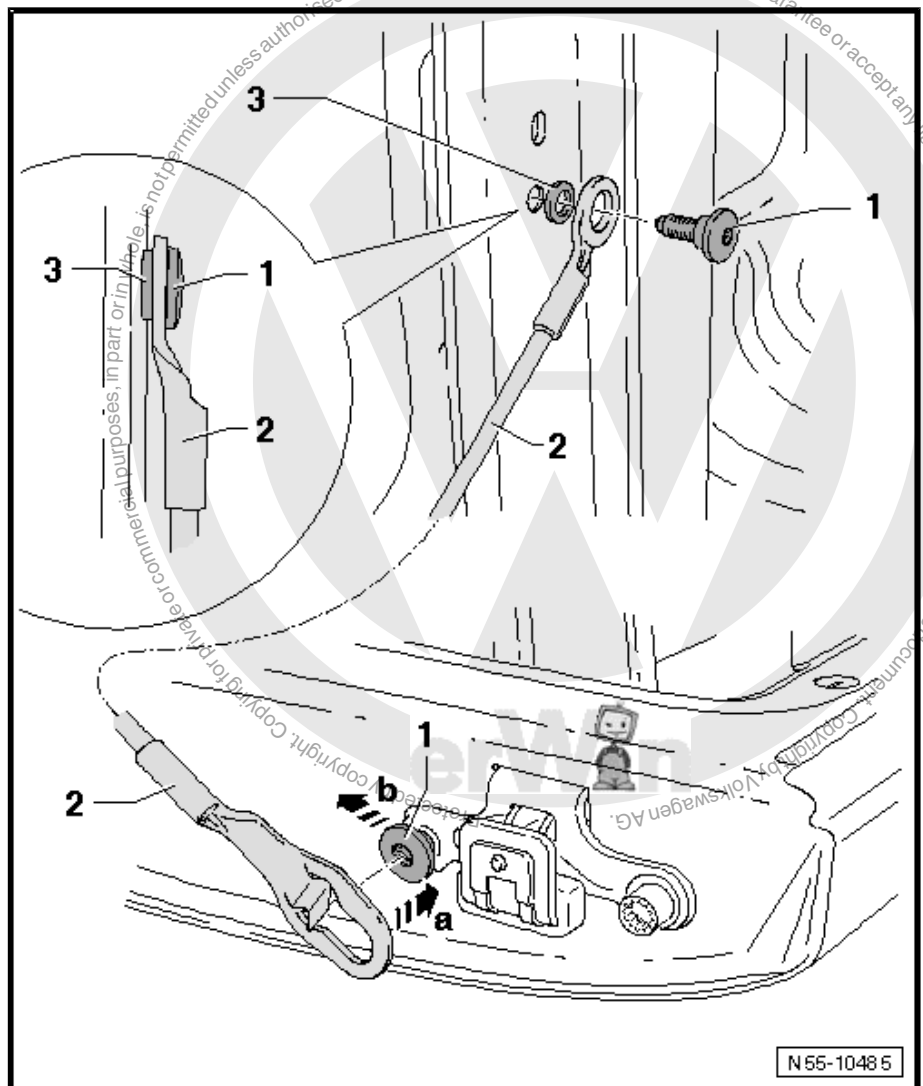
**Bolts must always be replaced by new ones after being removed.**

- ☐ Qty. 2
- ☐ Specified torques: 20 Nm

#### 2 - Arrester cable, tailgate

- ☐ Press tailgate arrester cable in -direction of arrow a- against bolt -1- and pull in -direction of arrow b-

#### 3 - Washer







## 2.7.2 Arrester cable, tailgate 2011 ►



### Note

- ◆ Only the left side is shown. The right side is similar.
- ◆ Bolt -1- must be screwed in completely in one operation. Subsequent tightening is not permitted.

#### 1 - Bolt



#### WARNING

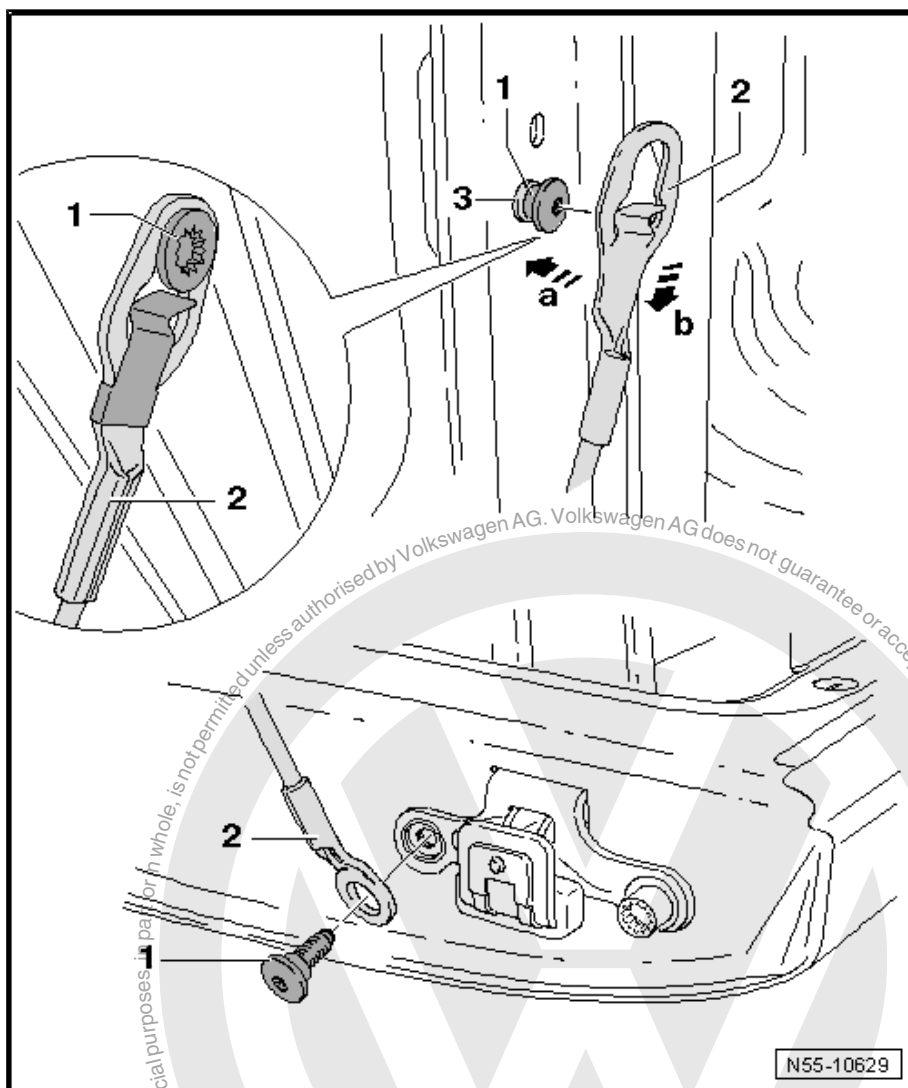
**Bolts must always be replaced by new ones after being removed.**

- Qty. 2
- Specified torques: 20 Nm

#### 2 - Arrester cable, tailgate

- Press tailgate arrester cable in -direction of arrow a- against bolt -1- and pull in -direction of arrow b-

#### 3 - Washer







## 2.8 Assembly overview - tailgate spacer

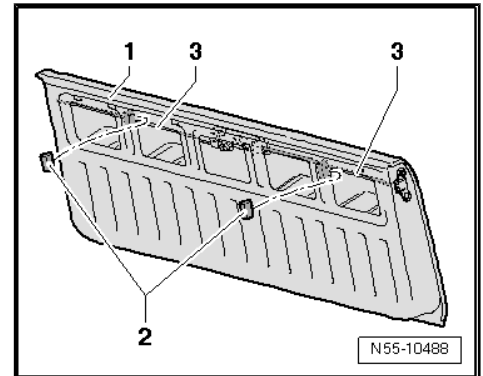
### Installation instructions

- Spacers -2- on right and left are stuck onto inside between tailgate -1- and pull rods -3-.
- Bond top edge of spacer -2- flush with top edge of tailgate opening.



#### Note

Ensure that the adhesive surfaces are free of dust and grease.



## 2.9 Assembly overview - tailgate seals

### 1 - Left seal

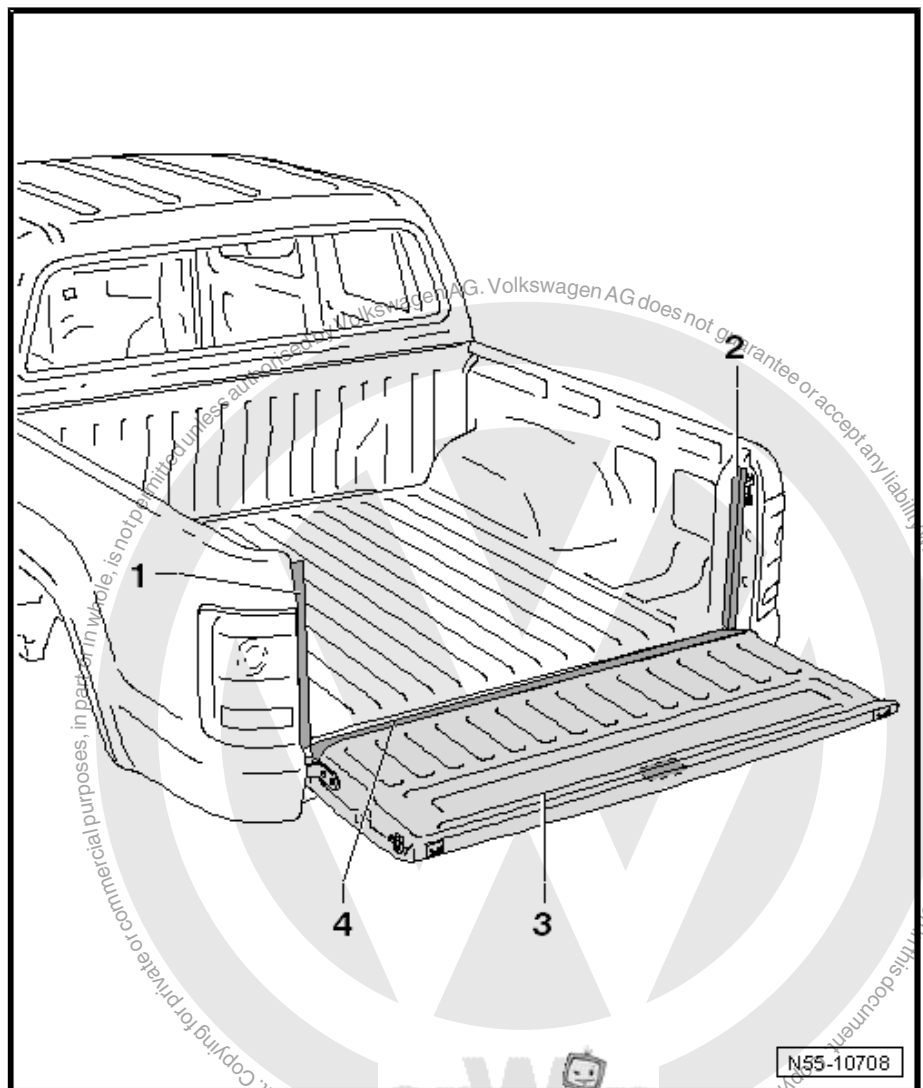
- ☐ Pushed onto edge of load bed

### 2 - Right seal

- ☐ Pushed onto edge of load bed

### 3 - Tailgate seal

- ☐ Bonded on lower edge of tailgate



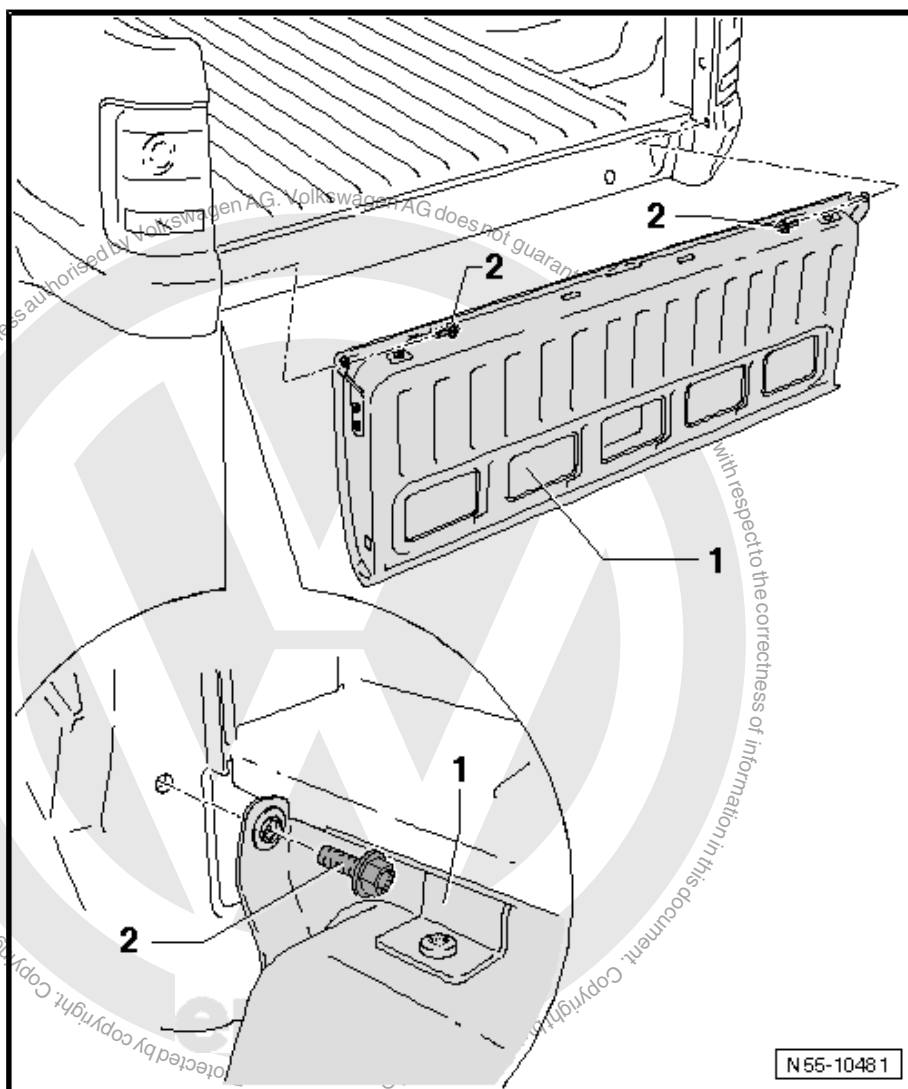
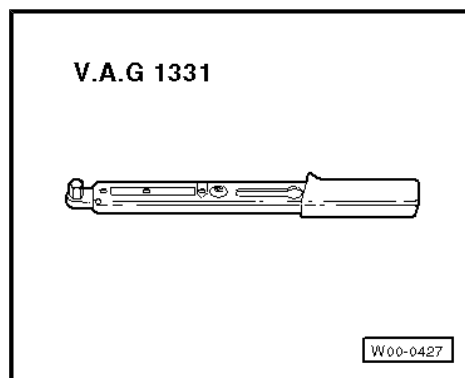
## 2.10 Removing and installing tailgate

Special tools and workshop equipment required





- ◆ Torque wrench -V.A.G 1331-



### Removing

- Loosen bolts -2- on left and right hinges (do not remove).
- Further dismantling requires the help of a second mechanic.
- Only now remove bolts -2- and remove tailgate -1-.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:





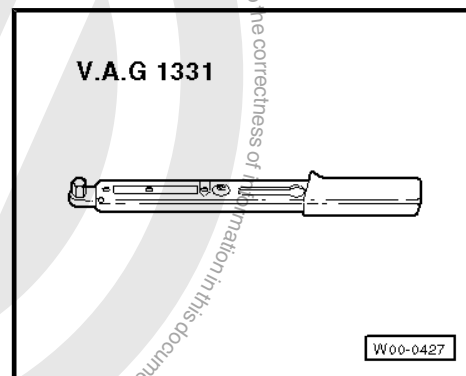
## Specified torques

Component	Specified torques
Tailgate bolts	40 Nm

## 2.11 Adjusting tailgate

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-

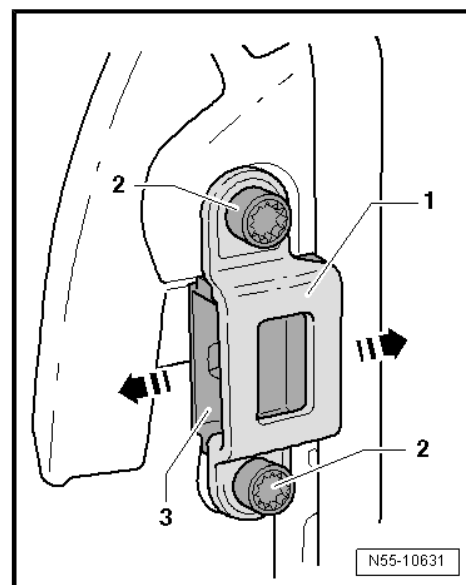


### Note

- ◆ *Vehicle must be on the ground when adjusting tailgate.*
- ◆ *Tailgate must engage in striker plate -1- and fixture -3- without excessive force.*
- Loosen bolts -2-.
- The striker plate -1- with fixture -3- can be adjusted in -direction of arrows- using a plastic head hammer to ensure the tailgate closes flush.

## Specified torques

Component	Specified torques
Striker plate bolts	20 Nm



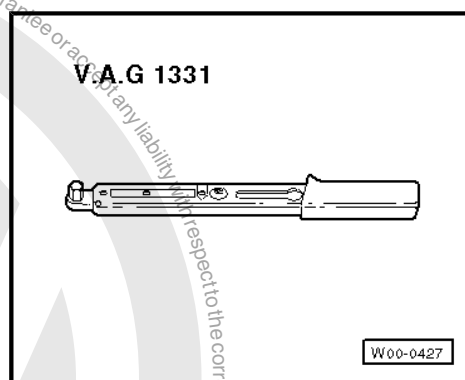
## 2.12 Removing and installing hinge

### Special tools and workshop equipment required



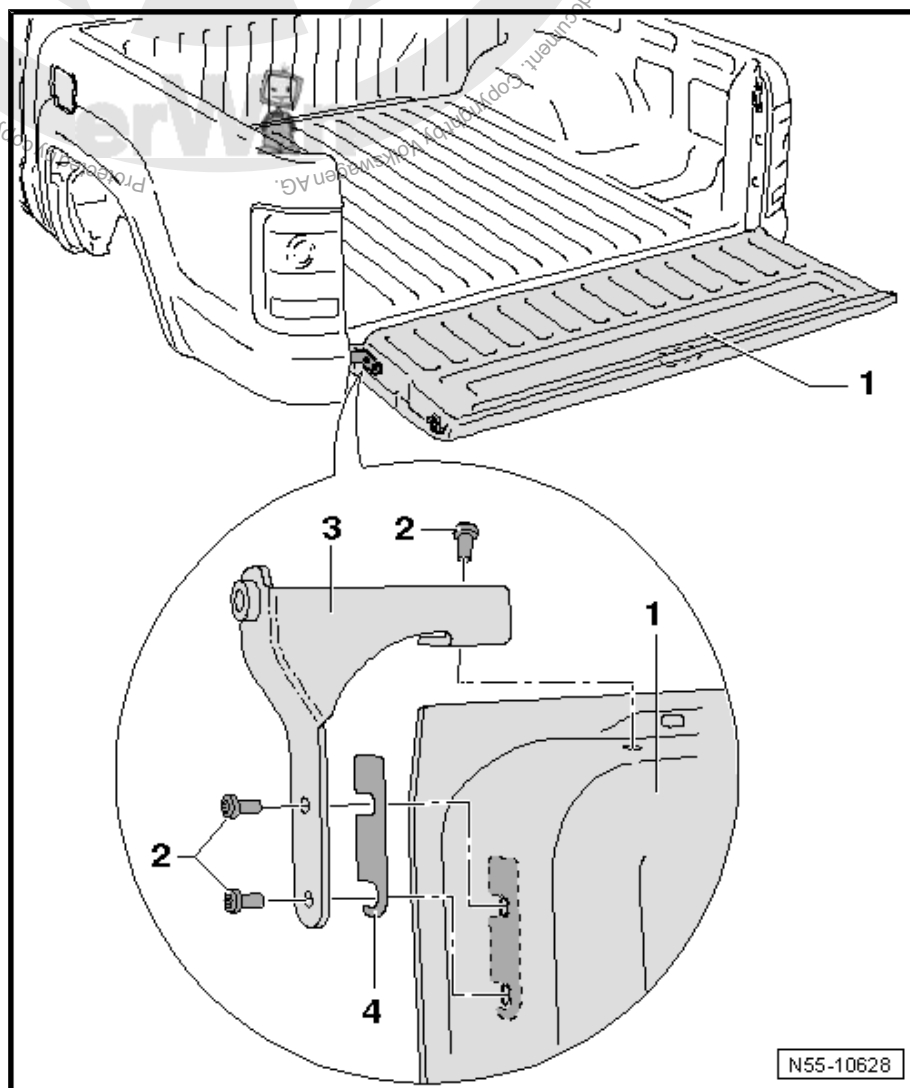


- ◆ Torque wrench -V.A.G 1331-



**Note**

Removal and installation are described only for the left hinge. Removal and installation of the right hinge are similar.



**Removing**

- Removing tailgate -1- ⇒ [page 45](#) .





- Remove bolts -2- on hinge -3-.
- Remove hinge -3- and base plate -4-.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:



#### Note

*Ensure base plate -4- is seated correctly.*

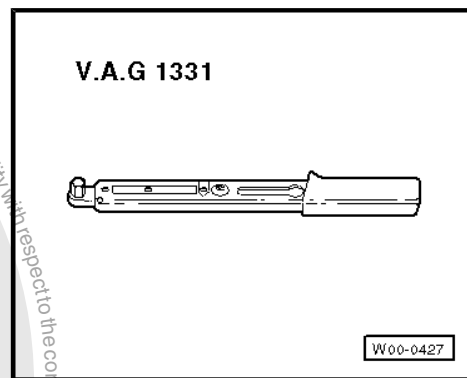
### Specified torques

- ◆ ⇒ ["2.3 Assembly overview - hinge", page 39](#) .

## 2.13 Removing and installing tailgate lock

### Special tools and workshop equipment required

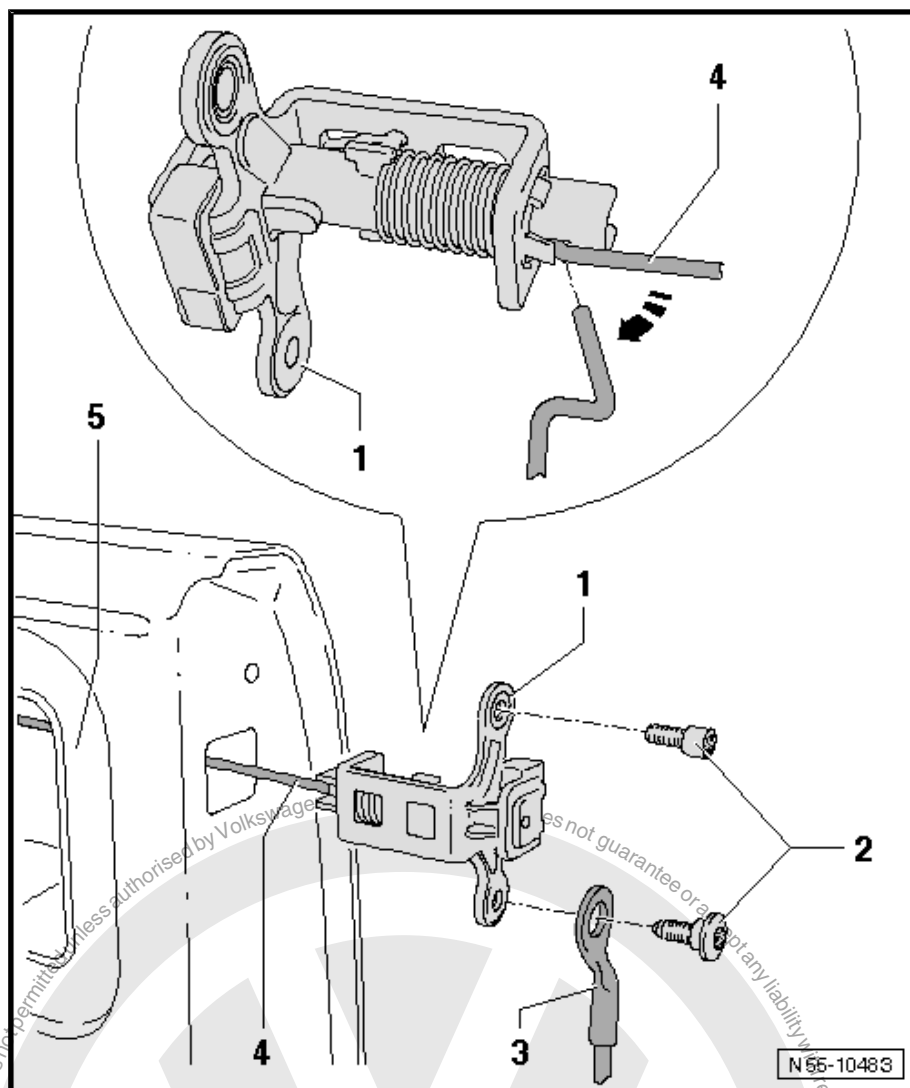
- ◆ Torque wrench -V.A.G 1331-



#### Note

*Removal and installation are described only for the left lock. The removal and installation of the right lock are similar.*





### Removing

- Removing tailgate trim ⇒ General body repairs, interior; Rep. gr. 70 ; Removing and installing tailgate trim .
- Unclip pull rod -4- from handle ⇒ [page 51](#) .
- Remove bolts -2- from tailgate -5-.



### Note

Arrester cable -3- for tailgate -5- is bolted under lower bolt -2- ⇒ [page 42](#) .

- Remove lock -1- from tailgate -5-.
- Unclip pull rod -4- from lock.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:

### Specified torques

- ♦ ⇒ ["2.4 Assembly overview - tailgate lock", page 40](#) .

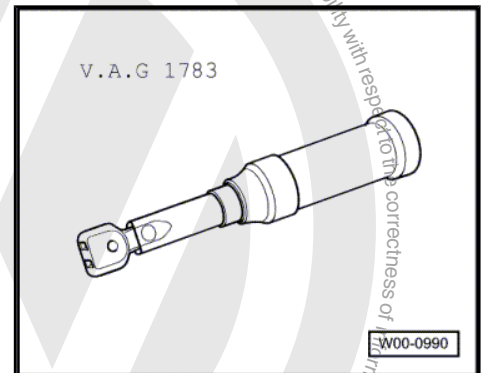




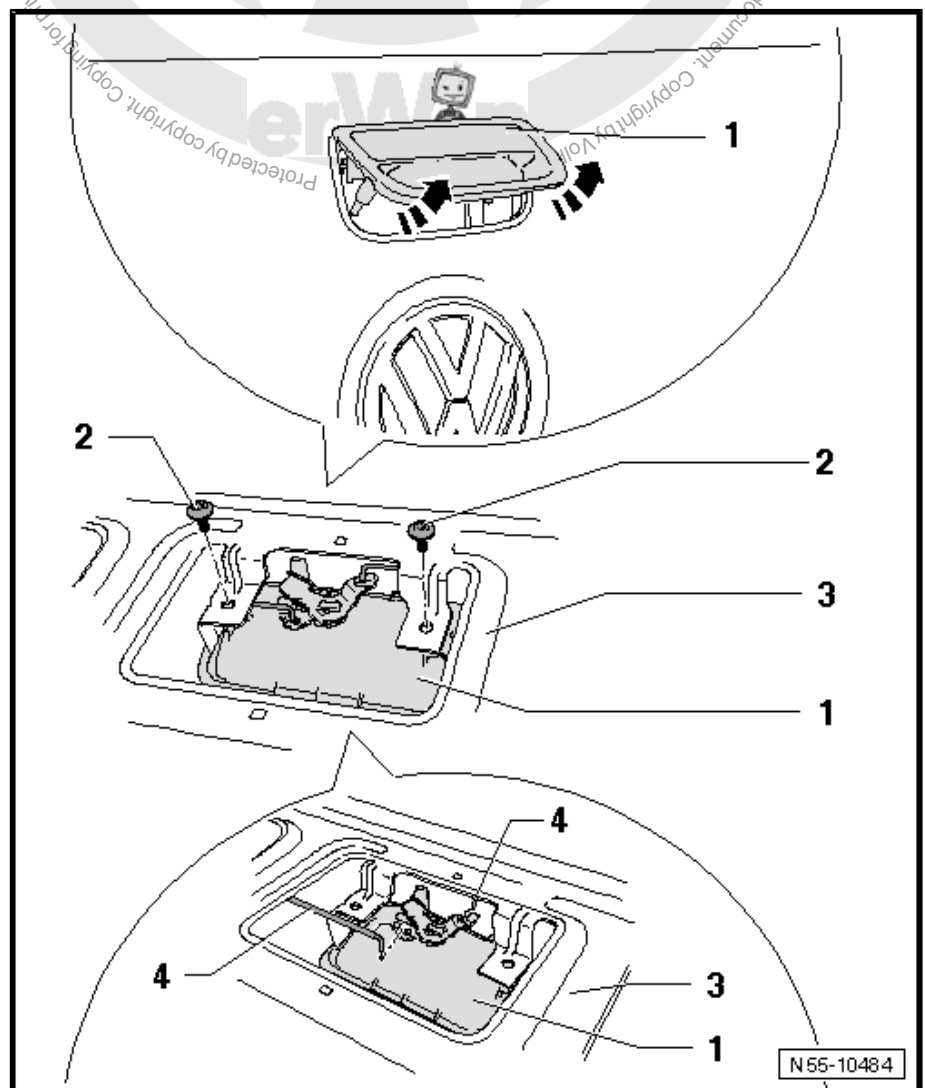
## 2.14 Removing and installing tailgate handle

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-



### Removing



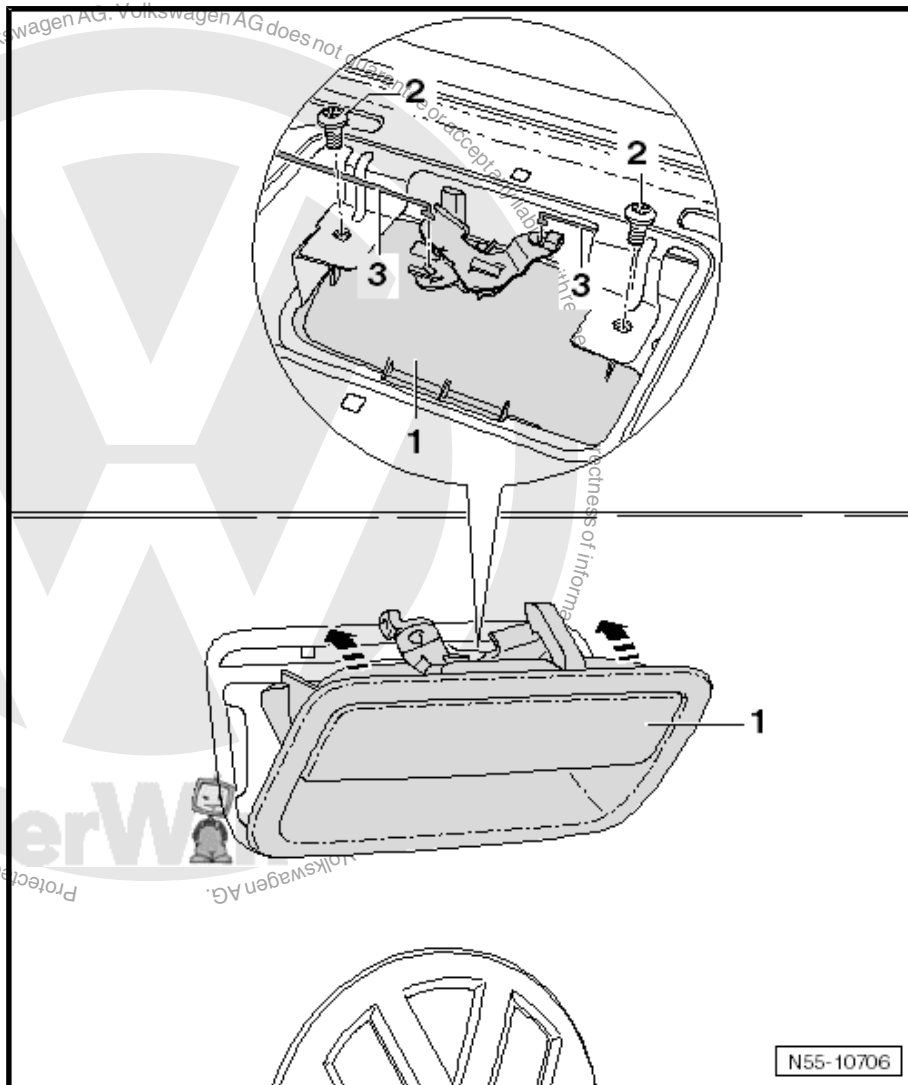
- Removing tailgate trim ⇒ General body repairs, interior; Rep. gr. 70 ; Removing and installing tailgate trim .
- Unclip pull rods -4- on left and right from tailgate handle -1-.





- Remove bolts -2- from tailgate -3-.
- Swivel outside tailgate handle -1- in -direction of arrow- out of tailgate.

#### Installing



- Pull on tailgate handle -1-, insert at bottom and swing into position.
- Clip pull rods -3- on left and right onto tailgate handle -1-.

Installation is carried out in reverse order. When doing this, observe the following:

#### Specified torques

- ♦ ⇒ ["2.5 Assembly overview - tailgate handle", page 41](#) .

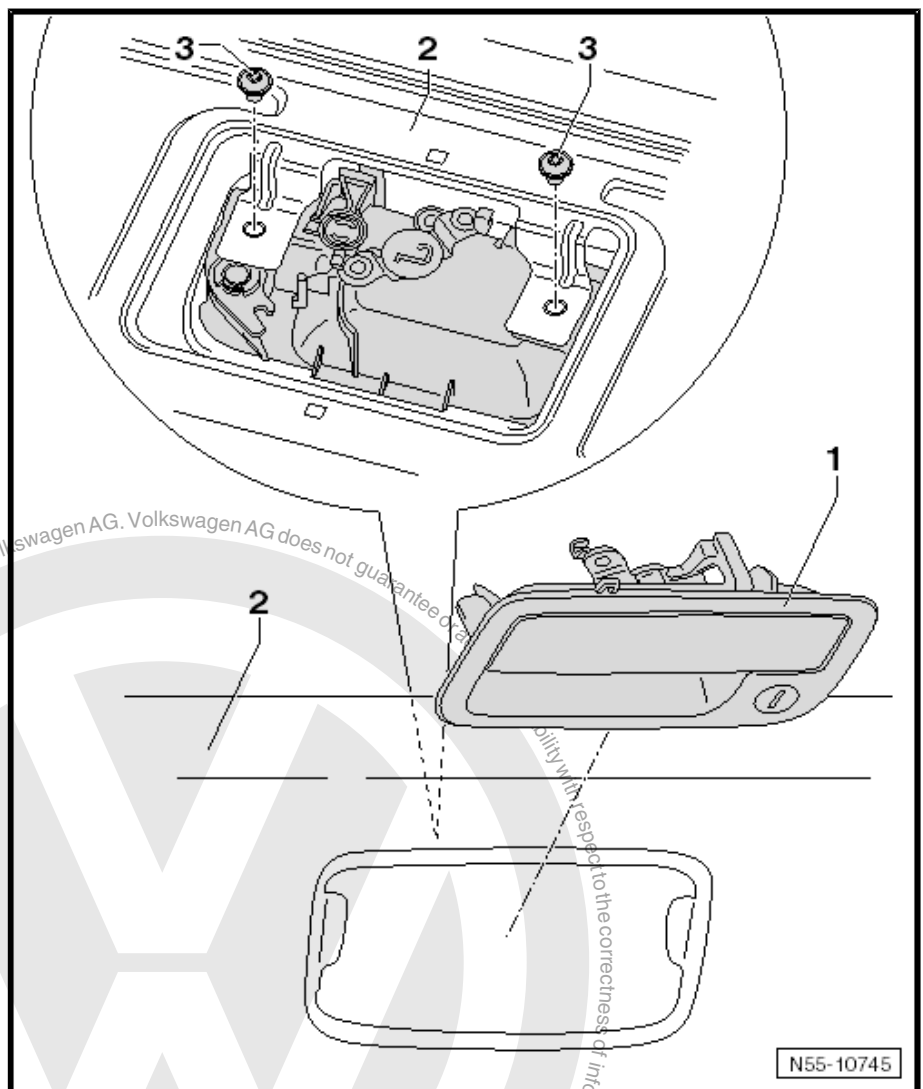
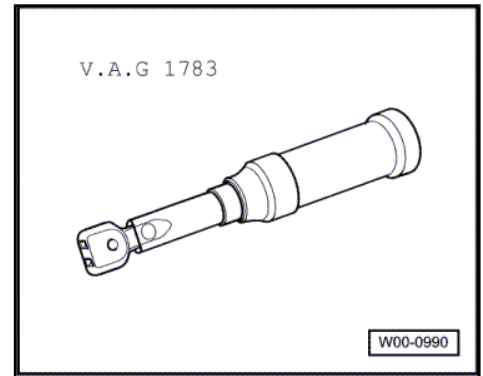
## 2.15 Removing and installing tailgate handle with lock cylinder

Special tools and workshop equipment required





- ◆ Torque wrench -V.A.G 1783-



### Removing

- Removing tailgate trim ⇒ General body repairs, interior; Rep. gr. 70 ; Removing and installing tailgate trim .
- Unclip pull rods on left and right from tailgate handle -1-.
- Unscrew bolts -3- from tailgate -2-.
- Swivel tailgate handle -1- out of tailgate -2-.





## Installing

- Lock cylinder is installed ⇒ [page 42](#) .
- Installation in unlocked state (lock cylinder slot vertical).
- Pull on tailgate handle -1-, insert at bottom and swing into position.
- Clip pull rods on left and right onto tailgate handle -1-.

## Specified torques

Component	Specified torques
Tailgate handle bolts	2,3 Nm

## 2.16 Removing and installing striker plate

⇒ [“2.16.1 Removing and installing striker plate ► 2010”, page 54](#)

⇒ [“2.16.2 Removing and installing striker plate 2011 ►”, page 55](#)



### Note

Removal and installation are described only for the left side. The removal and installation of the right side are similar.

### 2.16.1 Removing and installing striker plate ► 2010

#### Removing

- Remove bolts -2- and remove locking wedge -1-.

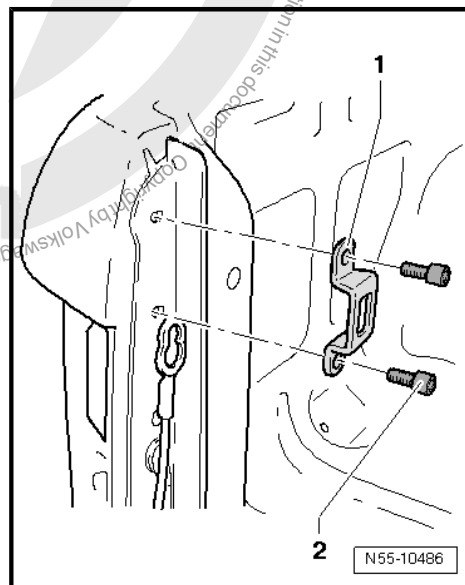
#### Installing

Installation is carried out in reverse order. When doing this, observe the following:

- Adjusting tailgate ⇒ [page 47](#) .

#### Specified torques

Component	Specified torques
Striker plate bolts	20 Nm







## 2.16.2 Removing and installing striker plate 2011 ►

### Removing

- Remove bolts -2-.
- Remove striker plate -1- with fixture -3-.

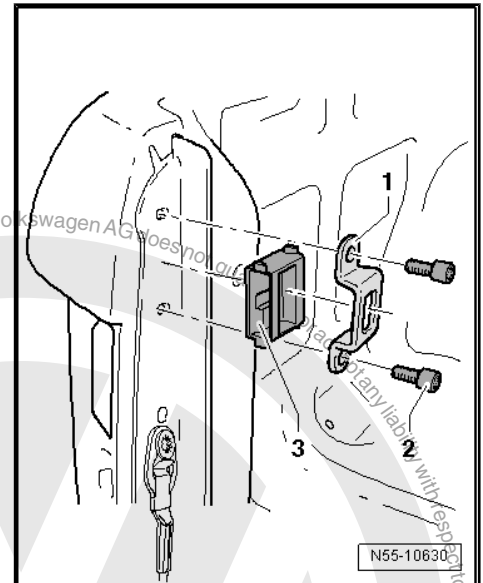
### Installing

Installation is carried out in reverse order. When doing this, observe the following:

- Adjusting tailgate ⇒ [page 47](#) .

### Specified torques

Component	Specified torques
Striker plate bolts	20 Nm





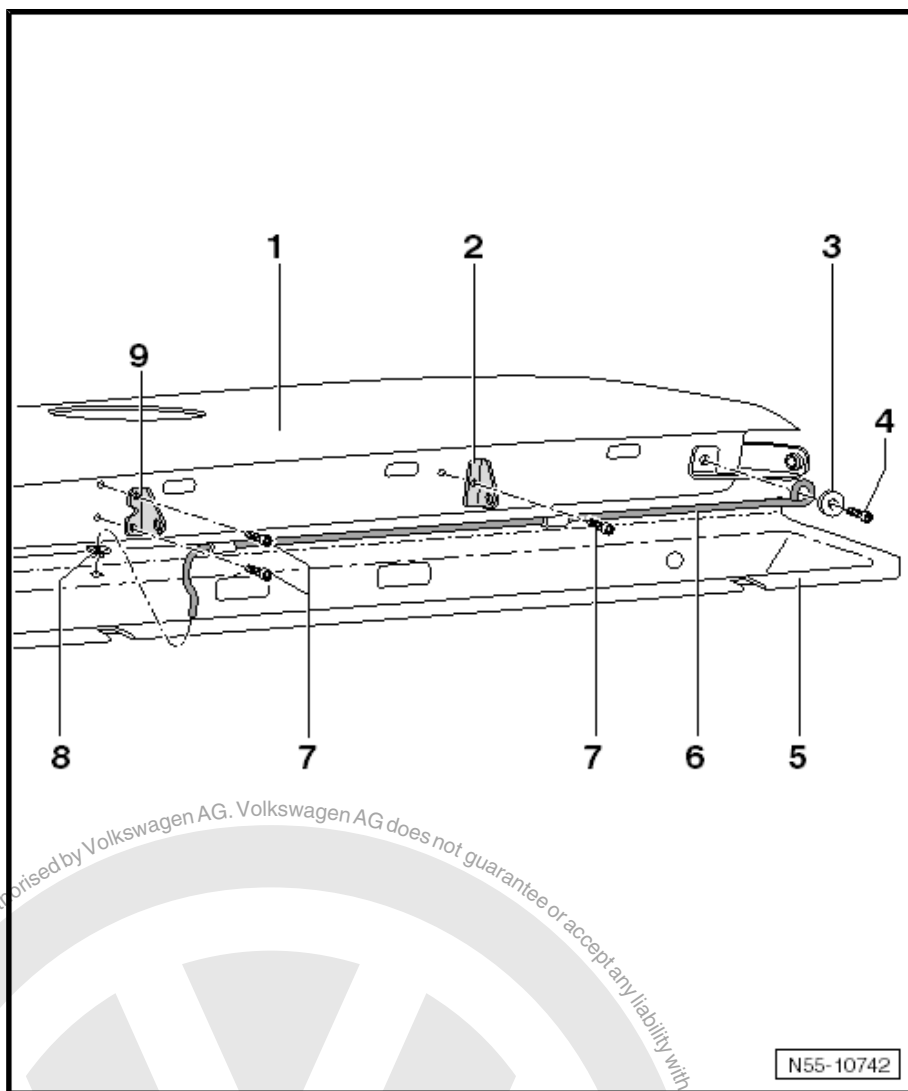


## 2.17 Removing and installing torsion bar



### Note

*Torsion bar may be installed or removed only when tailgate is closed.*



### Removing

- Unscrew bolts -7- of brackets -2- and -9-.
- Unscrew bolt -4- together with washer -3-.
- Pull torsion bar -6- out of clip -8-.

### Installing

- Insert torsion bar -6- through clip -8-.
- Secure washer -3- and bolt -4- to hinge through eyelet of torsion bar -6-.
- Secure brackets -2- and -9- with bolts -7-.





## Specified torques

- ◆ ⇒ ["2.2 Assembly overview - tailgate with torsion bar", page 38](#)







### 3 Load bed

⇒ [“3.1 Assembly overview - load bed”, page 58](#)

⇒ [“3.2 Assembly overview - load bed add-on parts”, page 59](#)

⇒ [“3.3 Assembly overview - flashing eyes”, page 59](#)

⇒ [“3.4 Removing and installing load bed”, page 61](#)

⇒ [“3.5 Removing and installing cross-member buffer”, page 63](#)

#### 3.1 Assembly overview - load bed

##### 1 - Fastening ring

- Assembly overview  
⇒ [page 59](#)

##### 2 - Load bed

- Removing and installing  
⇒ [page 61](#)

##### 3 - Support

- Outer side part  
⇒ [page 59](#)

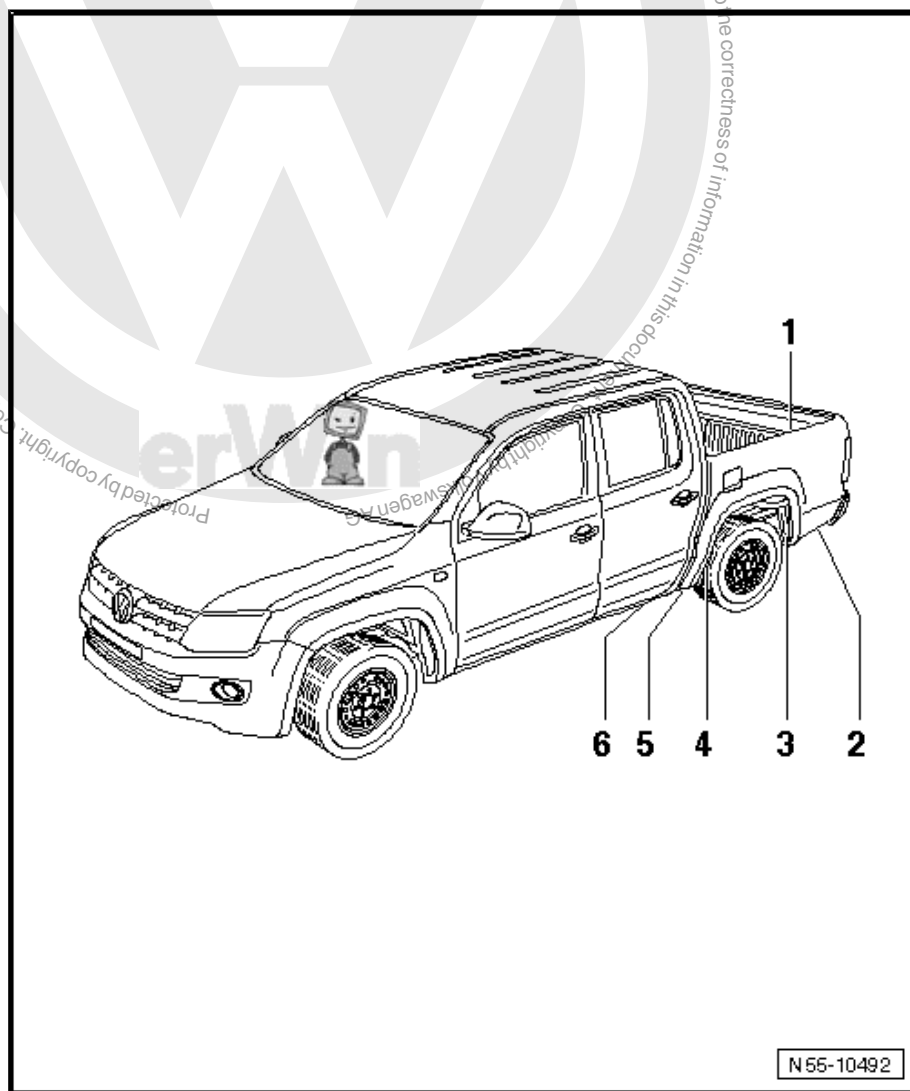
##### 4 - Buffer - cross member

- Removing and installing  
⇒ [page 63](#)

##### 5 - Tank filler neck

- Unscrew ⇒ [page 78](#) .

##### 6 - Ladder frame







## 3.2 Assembly overview - load bed add-on parts



Note

Only the left side is shown. The right side is similar.

### 1 - Load bed

- ☐ Removing and installing  
⇒ [page 61](#)

### 2 - Pop rivet nut

- ☐ Insert using pop rivet nut  
pliers -V.A.G 1765B- .

### 3 - Bolt

- ☐ Specified torque: 8 Nm

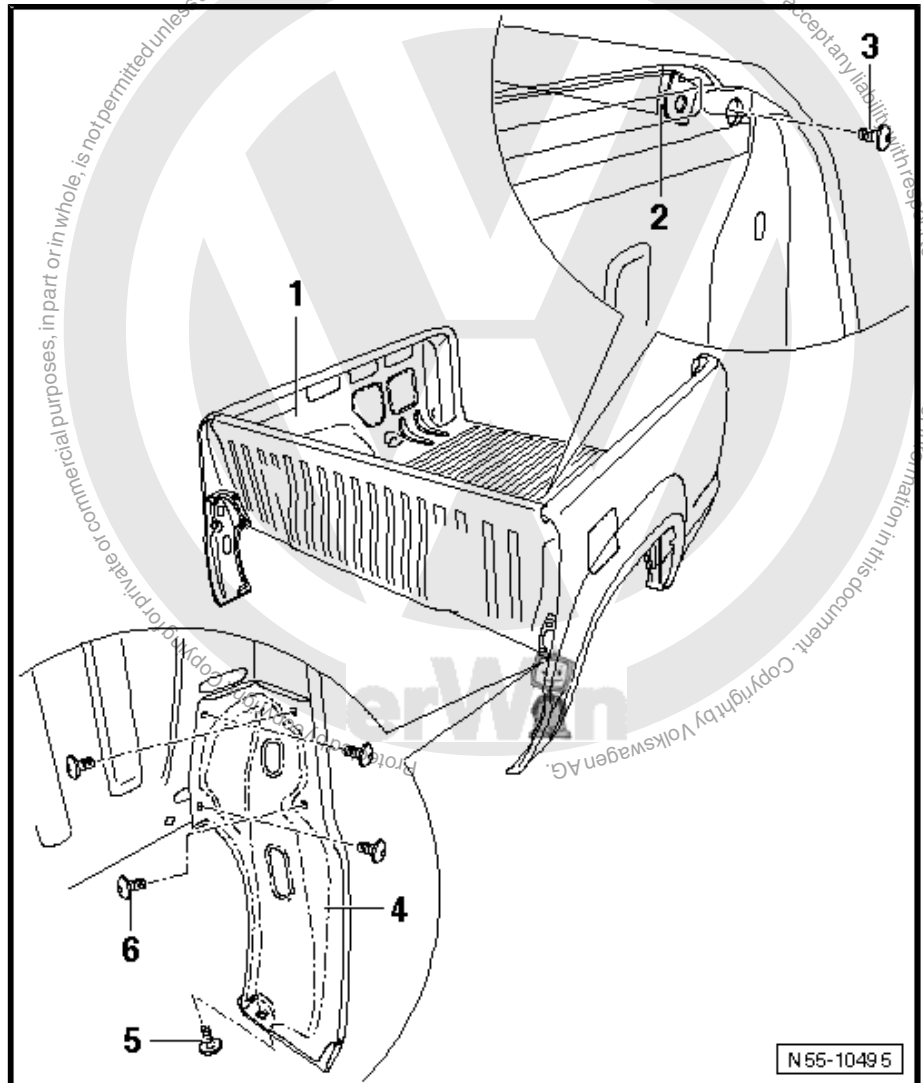
### 4 - Left support

### 5 - Bolt

- ☐ Specified torque: 8 Nm

### 6 - Bolt

- ☐ Qty. 4
- ☐ Specified torque: 8 Nm



## 3.3 Assembly overview - lashing eyes

⇒ ["3.3.1 Lashing eyes, double cab", page 60](#)

⇒ ["3.3.2 Lashing eyes, single cab", page 61](#)





### 3.3.1 Lashing eyes, double cab



#### Note

Only the left side is shown. The right side is analogous.

#### 1 - Rear lashing eye

- ❑ Secured with bolts -2-

#### 2 - Middle lashing eye

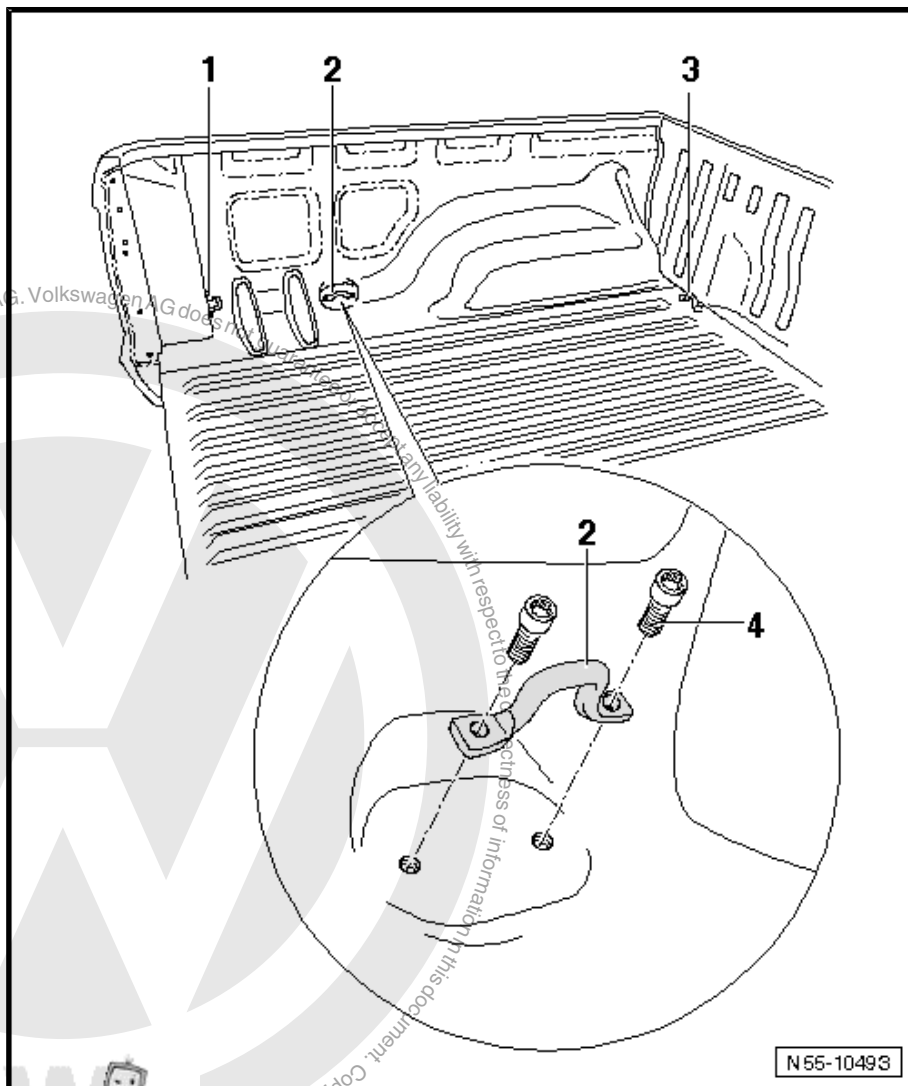
- ❑ Secured with bolts -2-

#### 3 - Front lashing eye

- ❑ Secured with bolts -2-

#### 4 - Bolt

- ❑ 2 per lashing eye
- ❑ Specified torques: 20 Nm.







### 3.3.2 Lashing eyes, single cab



#### Note

Only the left side is shown. The right side is analogous.

#### 1- Rear lashing eye

- Secured with bolts -2-

#### 2- Middle lashing eye

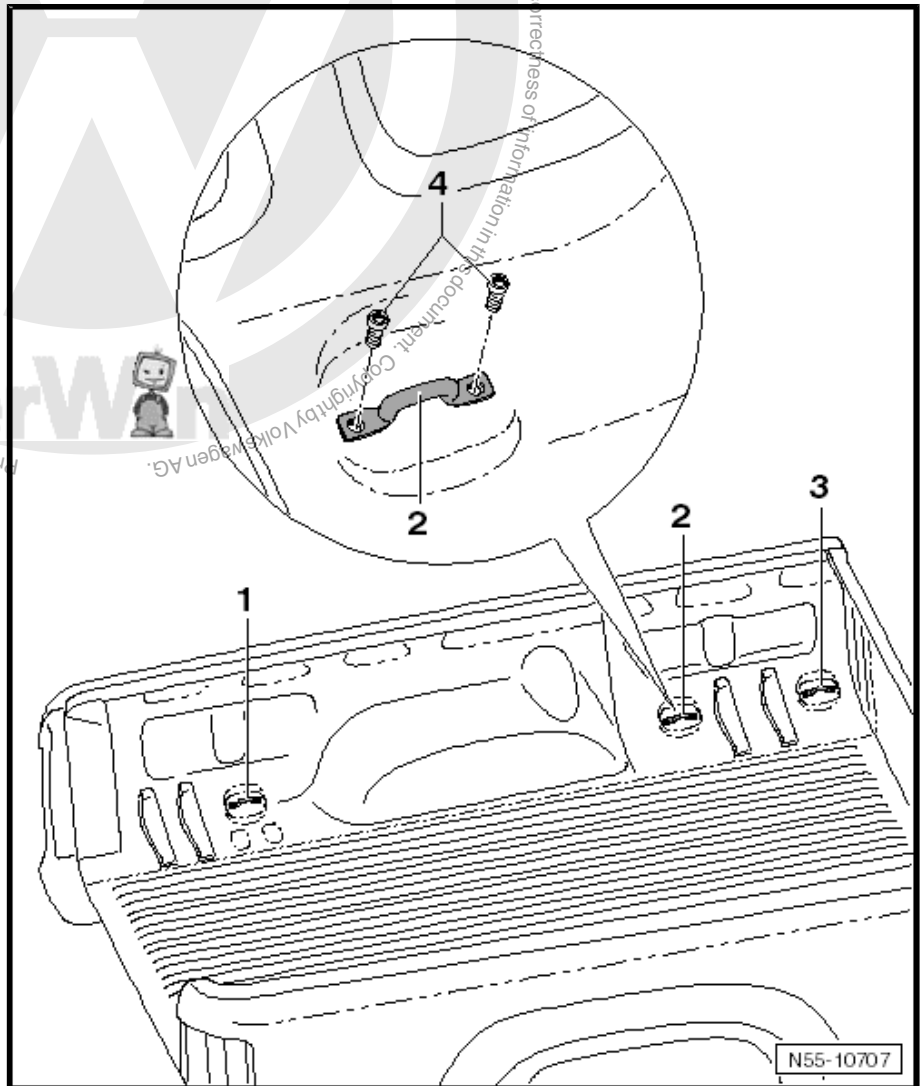
- Secured with bolts -2-

#### 3 - Front lashing eye

- Secured with bolts -2-

#### 4 - Bolt

- 2 per lashing eye
- Specified torques: 20 Nm.



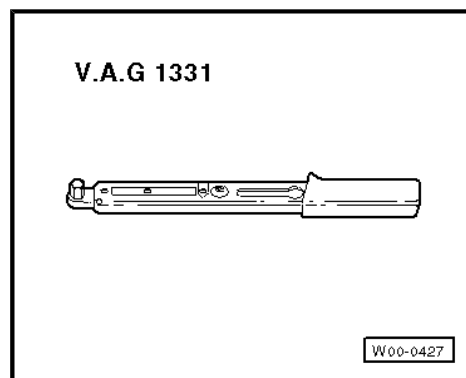
### 3.4 Removing and installing load bed

Special tools and workshop equipment required



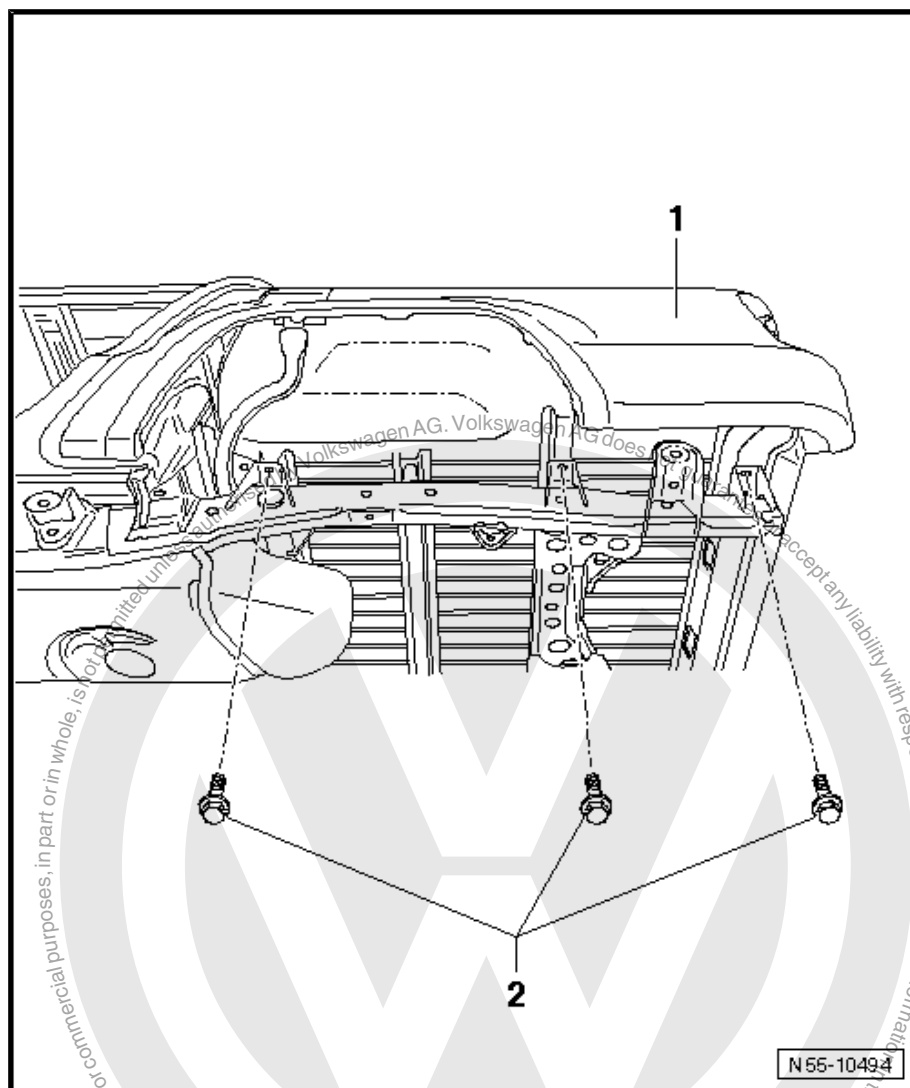


- ◆ Torque wrench -V.A.G 1331-



#### Note

*Removal and installation are described only for the double cab load bed. The removal and installation of the single cab load bed are similar.*



#### Removing

- Remove towing bracket (if fitted) ⇒ [page 355](#)





- Remove tail lights ⇒ Electrical system; Rep. gr. 94 ; Tail lights .
- Unfasten handbrake cable from underneath ⇒ Brake system; Rep. gr. 46 ; Rear brake .
- Unscrew tank filler neck ⇒ [page 78](#) .
- Guide electrical cables out of load bed.
- Remove bolts -2- on left and right (-6- bolting points).



#### Note

*Note: single cab load bed has -8- bolting points.*

- 4 mechanics are required to lift load bed off ladder frame.

#### Installing

Installation is carried out in reverse order. When doing this, observe the following:



#### WARNING

***Bolts must always be renewed after being loosened.***

#### Specified torques

Component	Specified torques
Load bed bolts	90 Nm + 90°

### 3.5 Removing and installing cross-member buffer



#### Note

*Installation is described only for the left side. The right side is similar.*

#### Removing

- Load bed removed

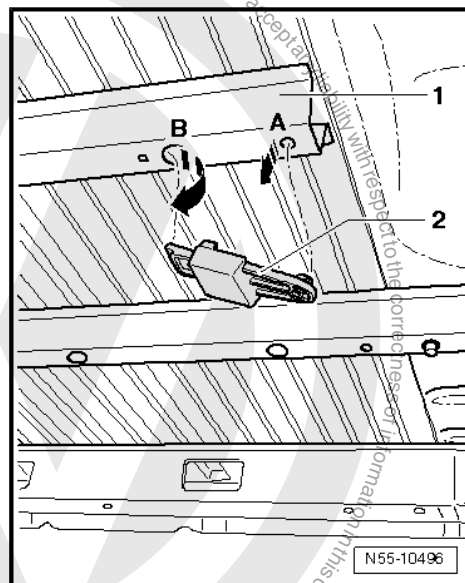




- Unclip outer side of buffer -2- -arrow A-
- Swivel buffer -2- out of cross member -arrow B-

### Installing

Install in reverse order of removal.







## 4 Cab

⇒ ["4.1 Assembly overview - cab", page 65](#)

⇒ ["4.2 Assembly overview - front mounting for cab", page 67](#)

⇒ ["4.3 Assembly overview - centre mounting for cab", page 68](#)

⇒ ["4.4 Assembly overview - rear mounting for cab", page 68](#)

⇒ ["4.5 Assembly overview - retaining strap for cab", page 71](#)

⇒ ["4.6 Removing and installing cab", page 71](#)

⇒ ["4.7 Removing and installing retaining strap for cab", page 73](#)

⇒ ["4.8 Removing and installing pressure hoses and hose connections with screw-type clamps", page 74](#)

### 4.1 Assembly overview - cab

⇒ ["4.1.1 Double cab", page 65](#)

⇒ ["4.1.2 Single cab", page 66](#)

#### 4.1.1 Double cab

##### 1 - Cab

- ☐ Removing and installing  
⇒ [page 71](#)

##### 2 - Front mounting

- ☐ Removing and installing  
⇒ [page 67](#)

##### 3 - Bolt

- ☐ Specified torque 90 Nm  
+ turn 180° further.
- ☐ Bolts must always be renewed after being loosened.

##### 4 - Rear mounting

- ☐ Removing and installing  
⇒ [page 69](#)

##### 5 - Bolt

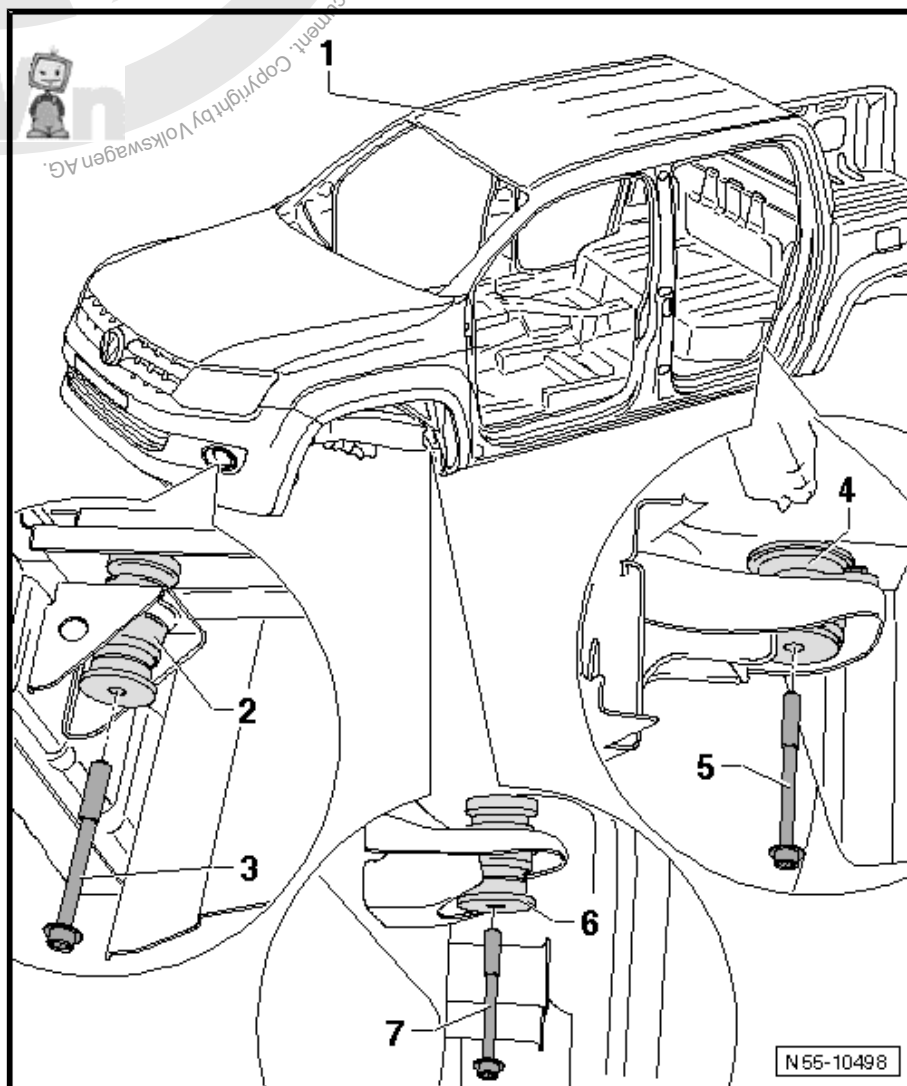
- ☐ Specified torque 90 Nm  
+ turn 180° further.
- ☐ Bolts must always be renewed after being loosened.

##### 6 - Middle mounting

- ☐ Removing and installing  
⇒ [page 68](#)

##### 7 - Bolt

- ☐ Specified torque 90 Nm  
+ turn 180° further.
- ☐ Bolts must always be renewed after being loosened.







## 4.1.2 Single cab

### 1 - Cab

- ❑ Removing and installing  
⇒ [page 71](#) .

### 2 - Front mounting

- ❑ Removing and installing  
⇒ [page 67](#) .

### 3 - Bolt

- ❑ Specified torque 90 Nm  
+ turn 180° further.
- ❑ Bolts must always be re-  
newed after being loos-  
ened.

### 4 - Rear mounting

- ❑ Removing and installing  
⇒ [page 70](#) .

### 5 - Bolt

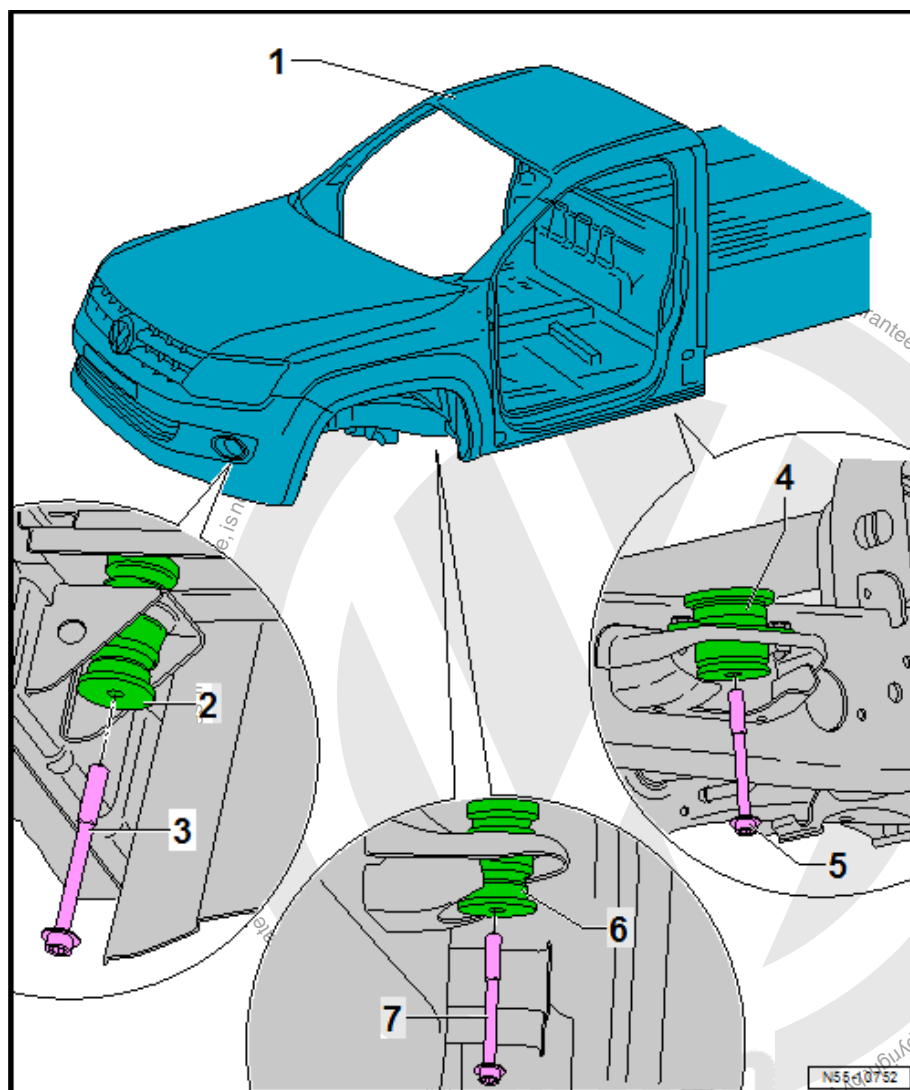
- ❑ Specified torque 90 Nm  
+ turn 180° further.
- ❑ Bolts must always be re-  
newed after being loos-  
ened.

### 6 - Middle mounting

- ❑ Removing and installing  
⇒ [page 68](#) .

### 7 - Bolt

- ❑ Specified torque 90 Nm  
+ turn 180° further.
- ❑ Bolts must always be re-  
newed after being loos-  
ened.





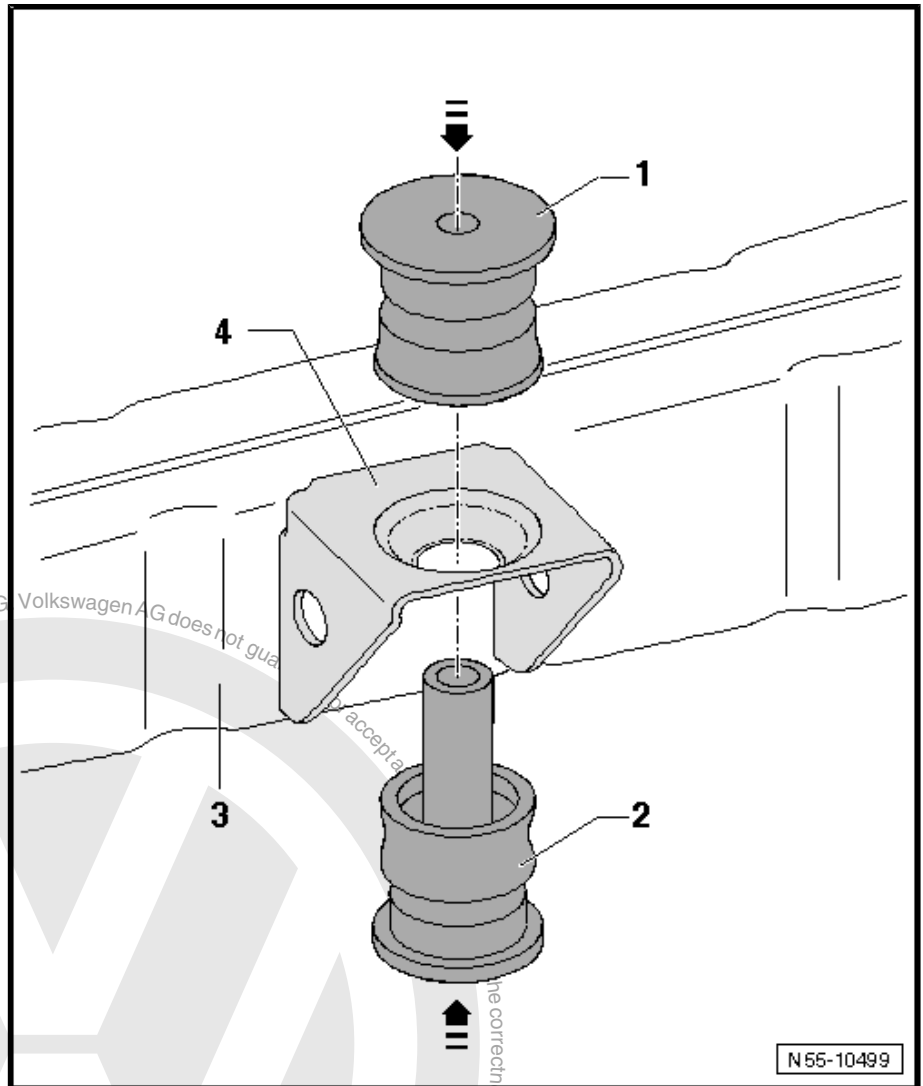


## 4.2 Assembly overview - front mounting for cab



*Only the left side is shown. The right side is similar.*

- 1 - Top mounting
- 2 - Bottom mounting
- 3 - Ladder frame
- 4 - Front mounting support



N55-10499





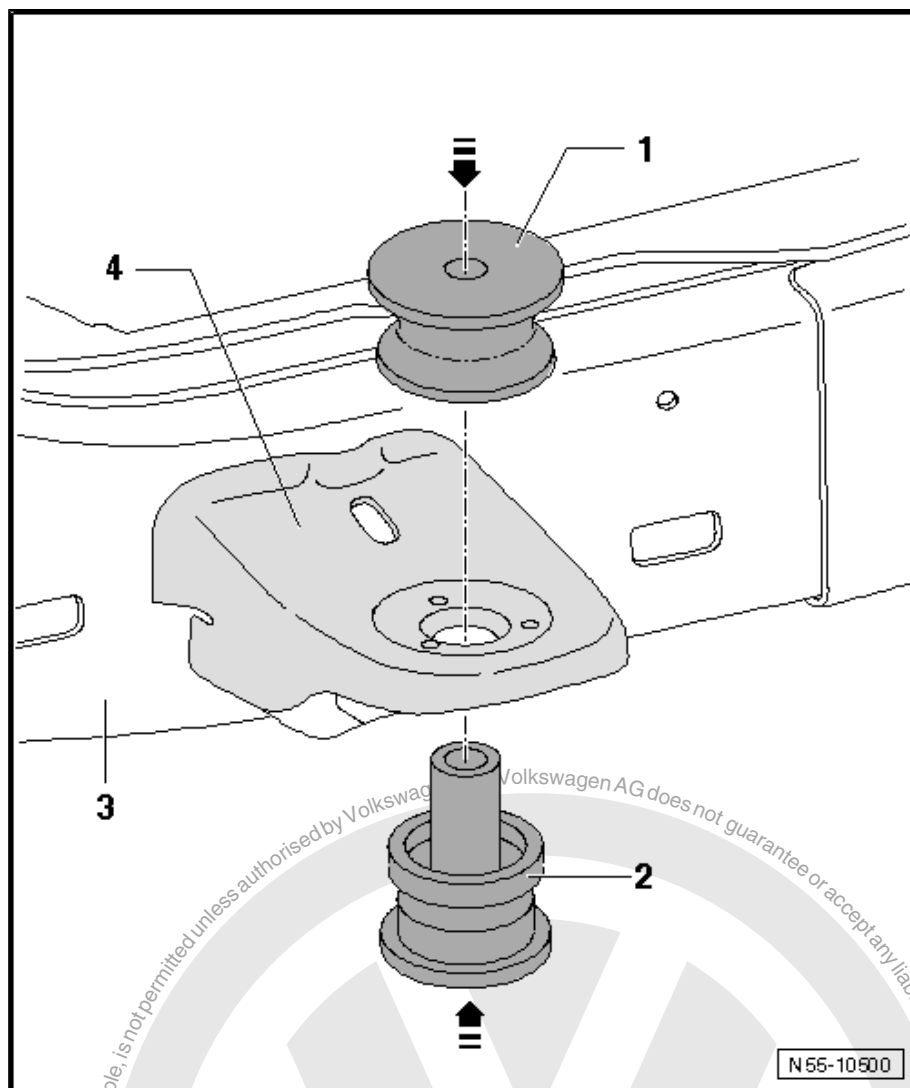
## 4.3 Assembly overview - centre mounting for cab



Note

Only the left side is shown. The right side is similar.

- 1 - Top mounting
- 2 - Bottom mounting
- 3 - Ladder frame
- 4 - Middle mounting support



## 4.4 Assembly overview rear mounting for cab

⇒ ["4.4.1 Rear mounting for double cab", page 69](#)

⇒ ["4.4.2 Rear mounting for single cab", page 70](#)





#### 4.4.1 Rear mounting for double cab



Note

*Only the left side is shown. The right side is similar.*

##### 1 - Rear mounting

☐ Removing:

- Lift cab and remove bolts -2-.

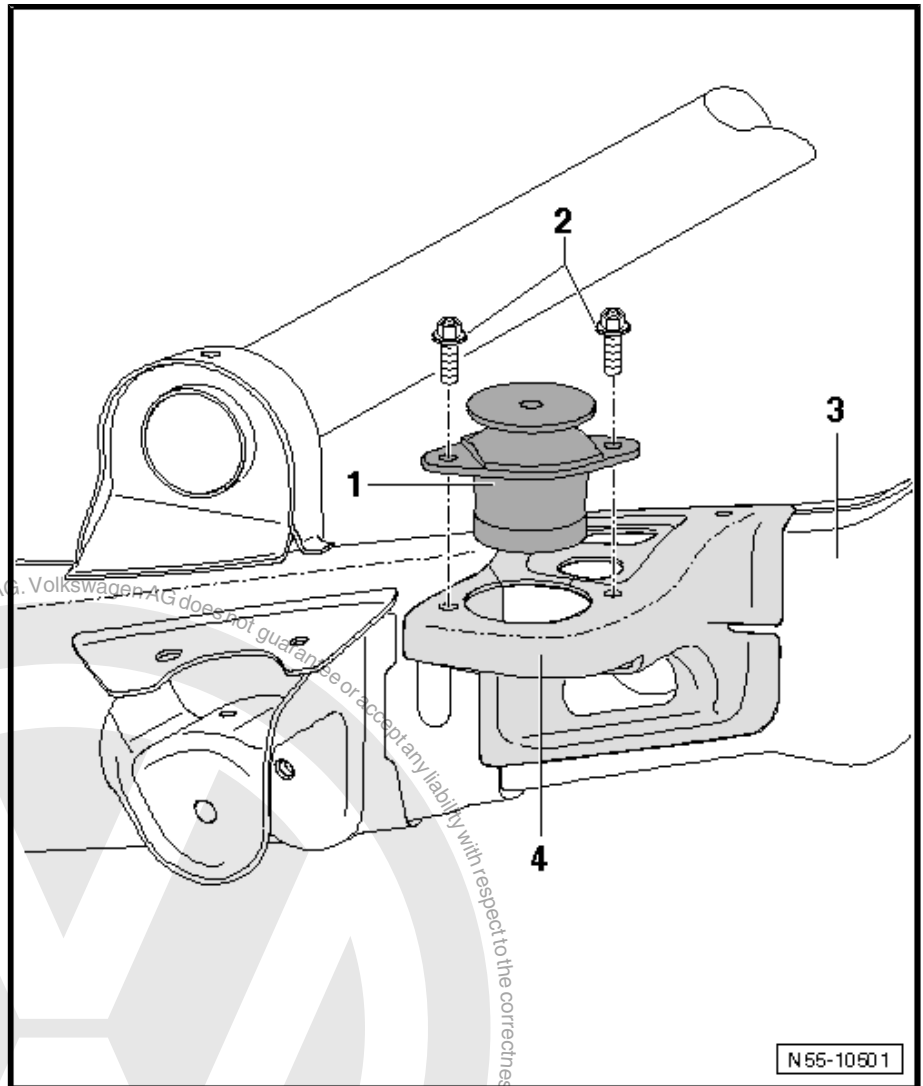
##### 2 - Bolt

☐ Qty. 2

☐ Specified torque: 55 Nm

##### 3 - Ladder frame

##### 4 - Rear mounting support



N55-10501





## 4.4.2 Rear mounting for single cab

### 1 - Rear mounting

#### □ Removing:

- Lift cab and remove bolts -2-.

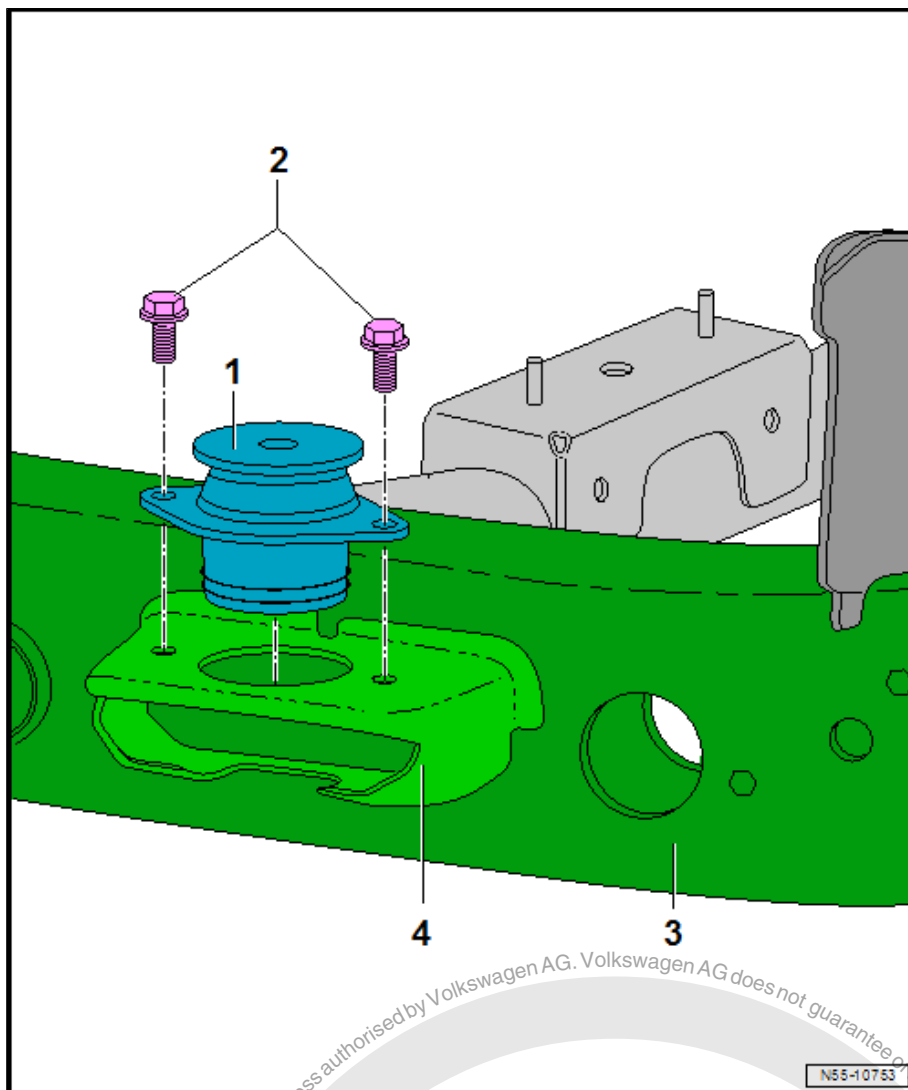
### 2 - Bolt

#### □ Qty. 2

#### □ Specified torque: 55 Nm

### 3 - Ladder frame

### 4 - Rear mounting support







## 4.5 Assembly overview - retaining strap for cab



Note

For single cab and double cab vehicles the retaining strap is installed on driver side.

### 1 - Retaining strap

- ☐ Removing and installing  
⇒ [page 73](#)

### 2 - Protective hose

- ☐ For retaining strap -1-.
- ☐ Installation only on left-hand drive vehicles as of 2012

### 3 - Bolt

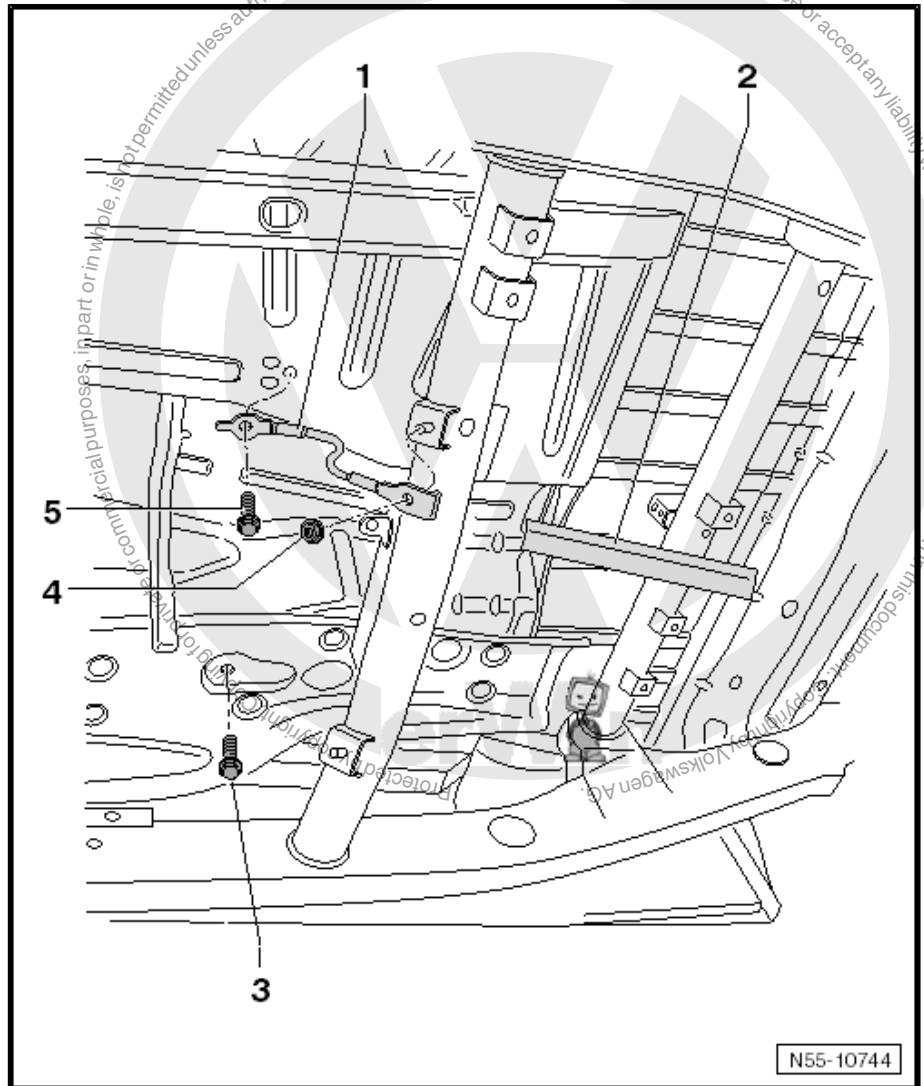
- ☐ For holding together structure/for dust protection
- ☐ Specified torque: 75 Nm

### 4 - Hexagon nut

- ☐ Specified torque: 75 Nm

### 5 - Bolt

- ☐ Specified torque: 75 Nm



N55-10744

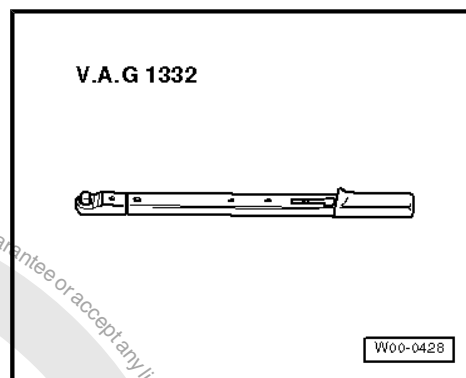
## 4.6 Removing and installing cab

Special tools and workshop equipment required



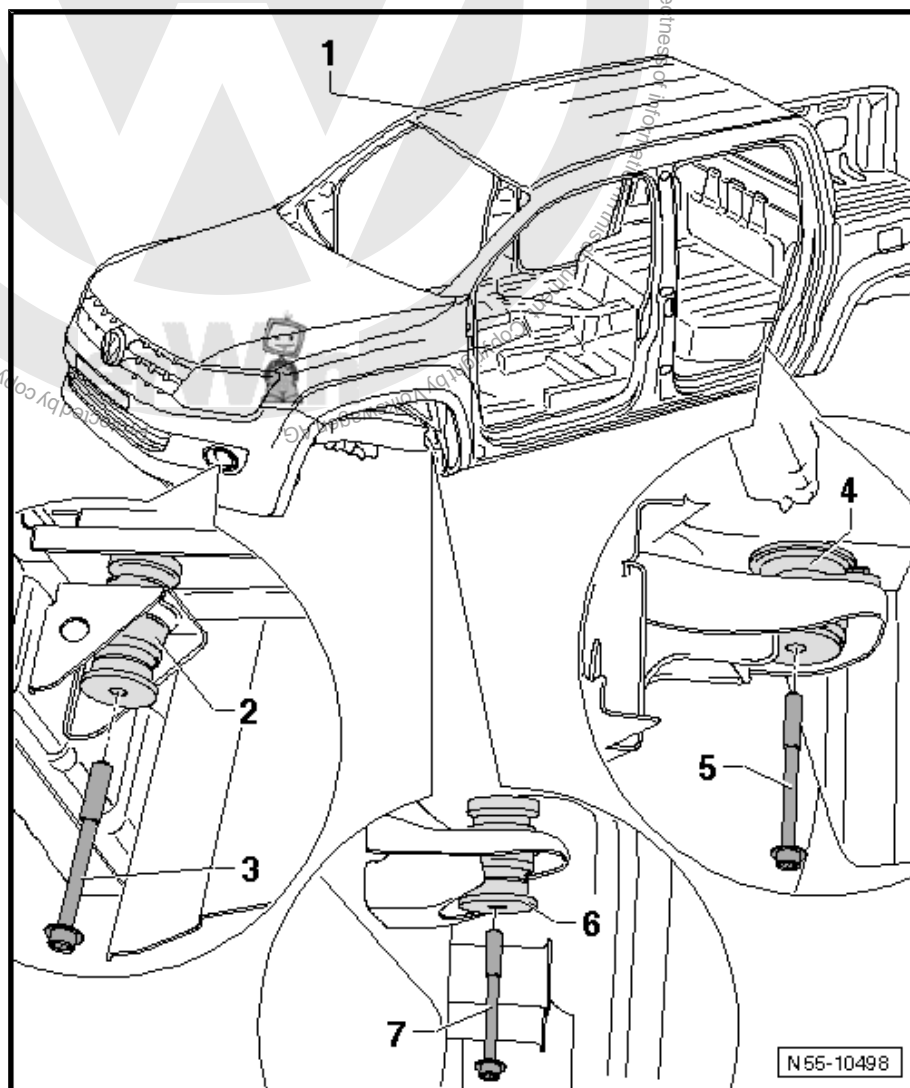


- ◆ Torque wrench -V.A.G 1332-



#### Note

Removal and installation are described only for the double cab. The removal and installation of the single cab load bed are analogous.



#### Removing

- Remove load bed ⇒ [page 61](#)





- Remove front bumper cover ➔ [page 236](#) .
- Remove wheel housing liners ➔ [page 304](#) .
- Unplug electrical connectors in engine compartment.
- Disconnect electrical coupling point for cab on underbody.
- Disconnect steering column ➔ Chassis, axles, steering; Rep. gr. 48 ; Steering wheel, steering column
- Unhook handbrake cable from underneath ➔ Brake system; Rep. gr. 46 ; Rear brake
- Disconnect gear selector cable from underneath ➔ Manual gearbox; Rep. gr. 34 ; Repairing selector mechanism .
- Completely separate brake pressure lines at brake servo ➔ Brake system; Rep. gr. 47 ; Assembly overview: Brake servo/ main brake cylinder .
- Drain coolant and disconnect coolant lines ➔ Engine cooling system; Rep. gr. 19 ; Removing and installing parts of the cooling system; Draining and filling coolant .
- Disconnect lines to condenser ➔ Heating and air conditioning system; Rep. gr. 87 ; Air conditioning system; Removing and installing condenser .
- Disconnect pressure hoses for charge-air cooler ➔ [page 74](#) .
- Remove bolts -3-, -7- and -5- from body mountings -2-, -6- and -4-.
- Carefully lift body -1- off upwards.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:



#### Note

*During assembly, it is helpful to guide cab -1- onto body mountings using commercially available threaded rods.*

### Specified torques

◆ ➔ ["4.1 Assembly overview - cab", page 65](#) .

## 4.7 Removing and installing retaining strap for cab

### Removing



#### Note

*Retaining strap with protective hose is installed on models as of 2012 ➔ [Item 2 \(page 71\)](#) .*





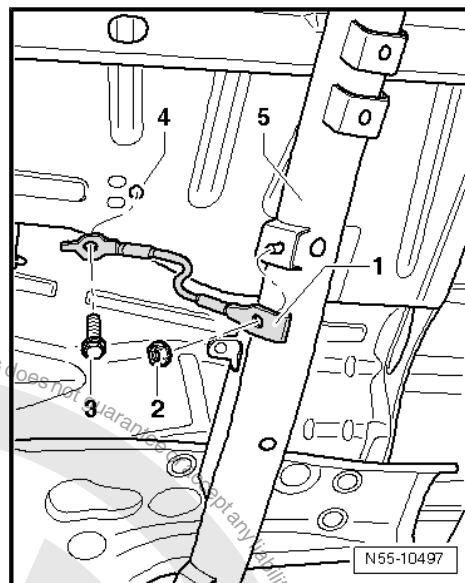
- Unscrew hexagon nut -2- from ladder frame -5-.
- Unscrew bolt -3- from cab -4- and remove retaining strap -1-.

#### Installing

Installation is carried out in reverse order. When doing this, observe the following:

#### Specified torques

- ◆ ⇒ [“4.5 Assembly overview - retaining strap for cab”, page 71](#) .



## 4.8 Removing and installing pressure hoses and hose connections with screw-type clamps

⇒ [“4.8.1 Hose connections with push-on couplings”, page 74](#)

⇒ [“4.8.2 Pressure hose with ribbed union and hose clamp”, page 75](#)

⇒ [“4.8.3 Notes on hose connections with screw-type clamps”, page 76](#)

### 4.8.1 Hose connections with push-on couplings



#### Caution

*The sealing ring for the push-on coupling can be damaged if the retaining clip is in the locked position during installation.*

*This would result in leaking.*

*Do not use any fluid containing oil, silicone or grease. Only use clean water.*





### Releasing pressure hose.

- Release push-on coupling -3- by pulling the retaining clip -1- in -direction of arrow a-.
- Pull charge air hose -2- out of push-on coupling -3- in -direction of arrow b- without using any tools.

### Fitting pressure hose so that it latches into place.



#### Note

- ◆ When replacing the sealing ring, place the sealing ring in the groove of the charge air hose.
- ◆ Make sure that the sealing ring is completely resting in the groove all around the hose. Make sure that the sealing ring is not twisted.
- ◆ Apply clean water to sealing surfaces and sealing ring.

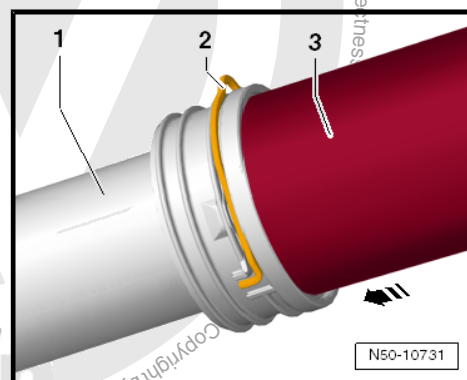
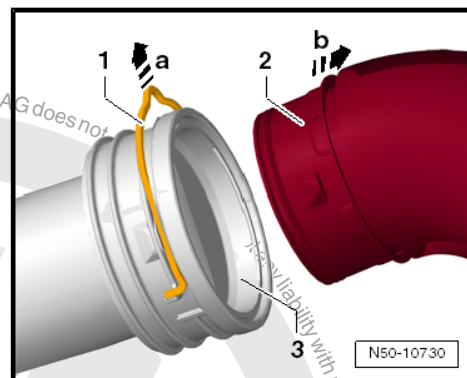
- Move retaining clip -2- to release position.
- Push charge air hose -3- in -direction of arrow- into plug-in coupling -1- as far as it will go.
- Move retaining clip -2- to locking position and then give the charge air hose another push.
- Check that the plug-in coupling is correctly engaged and seated by pulling on the charge air hose.



#### Note

- ◆ If the retaining clip cannot be pushed down fully, the pressure hose is not inserted sufficiently in the coupling.
- ◆ Press pressure hose again and lock retaining clip.

- Check push-on coupling by pulling on it.

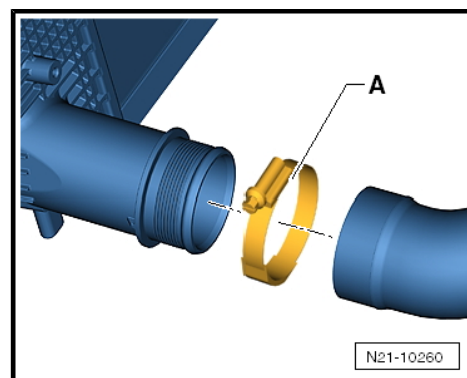


## 4.8.2 Pressure hose with ribbed union and hose clamp

### Removing pressure hose.

- Loosen screw of hose clamp -A-.
- Pull pressure hose together with hose clamp -A- off the ribbed union.

### Fitting pressure hose.







- Push pressure hose together with hose clamp -A- onto ribbed union as far as it will go.
- Tighten screw of hose clamp -A-.



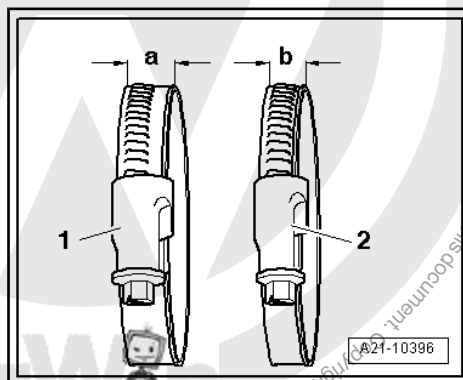
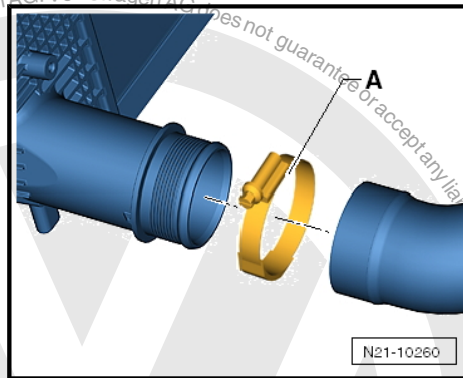
**Caution**

*The hose clamp screw -A- must be tightened as prescribed. If the tightening torque is too low or too high, the pressure hose may slip off the ribbed union when the vehicle is being driven.*

Notes on hose connections with screw-type clamps  
⇒ [page 76](#).

**Specified torque for hose clamps:**

- 1 - Hose clamp -a- = 13 mm wide: 5.5 Nm
- 2 - Hose clamp -b- = 9 mm wide: 3 Nm



#### 4.8.3 Notes on hose connections with screw-type clamps



**Caution**

*It is essential that the screw-type clamps on the charge air lines are tightened to 5.5 Nm. If the tightening torque is too low or too high, the charge air hose may slip off the charge air pipe when the vehicle is being driven.*

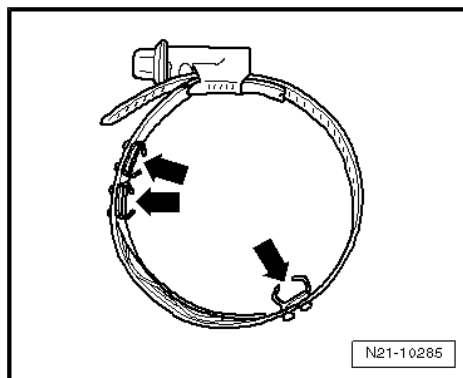
There are conventional screw-type clamps at the hose connections on the "intake side".

There are screw-type clamps with "barbs" -arrows- at the hose connections on the "discharge side".



**Caution**

- Do not loosen these hose clamps and pull them back over the hose.
- Risk of damage to hose!
- If a clamp has been removed, it must be renewed together with the hose.





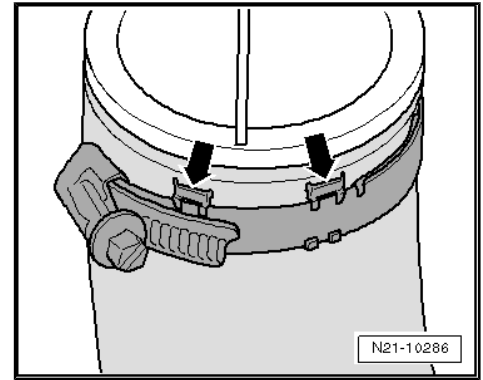


- It is permissible only to loosen the screw-type clamps with “barbs” -arrows-. Loosen the screw of the screw-type clamps just enough to remove the hoses.

Screw-type clamps that have only been loosened can be re-used.

Hose and clamp are supplied together as one spare part.

- When installing, does not use any fluid containing oil, silicone or grease. Only use clean water.







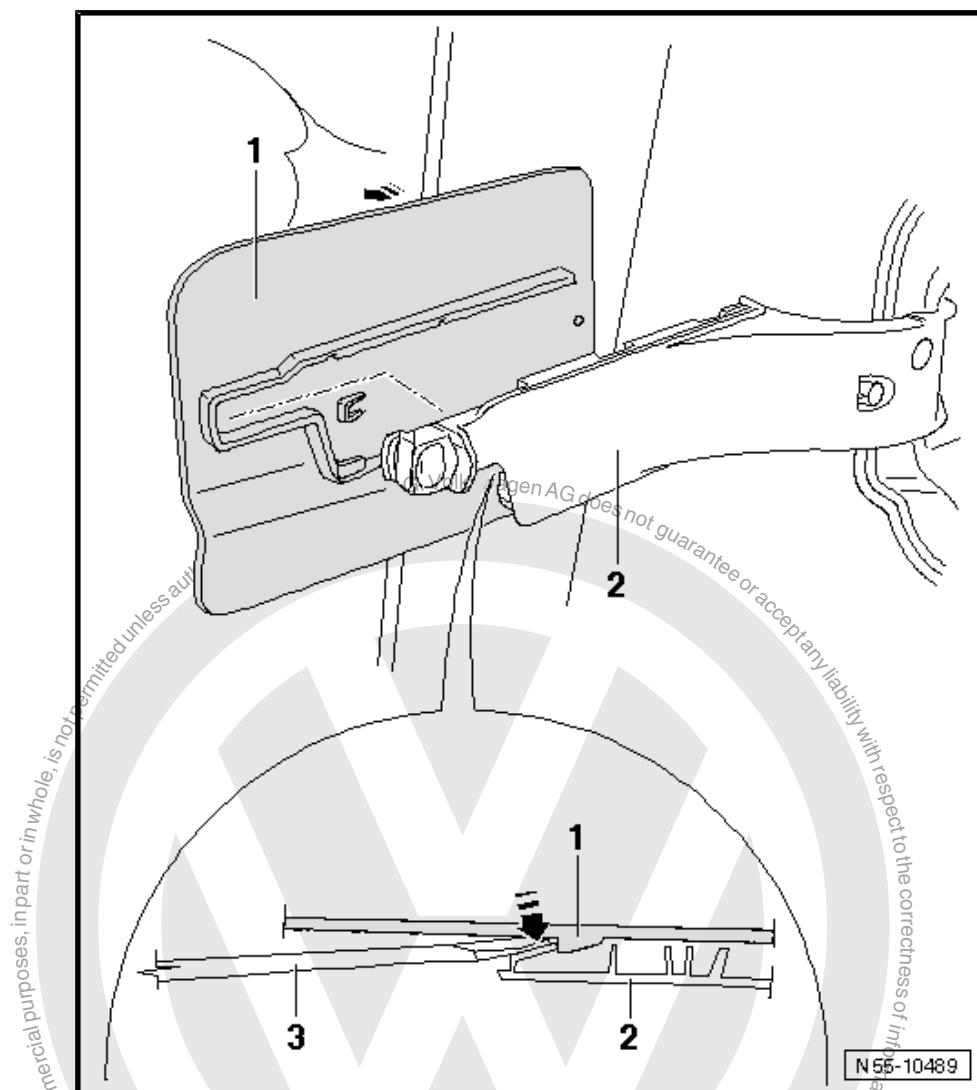
## 5 Tank flap unit

⇒ "5.1 Removing and installing tank flap", page 78

⇒ "5.2 Removing and installing tank flap unit", page 78

⇒ "5.3 Removing and installing actuator", page 80

### 5.1 Removing and installing tank flap



#### Removing

- Use a screwdriver -3- to unlock clip -arrow- on tank flap unit -2-.
- Pull tank flap -1- in -direction of arrow- off tank flap unit -2-.

#### Installing

- Push tank flap -1- onto tank flap unit -2- until it clips in securely.

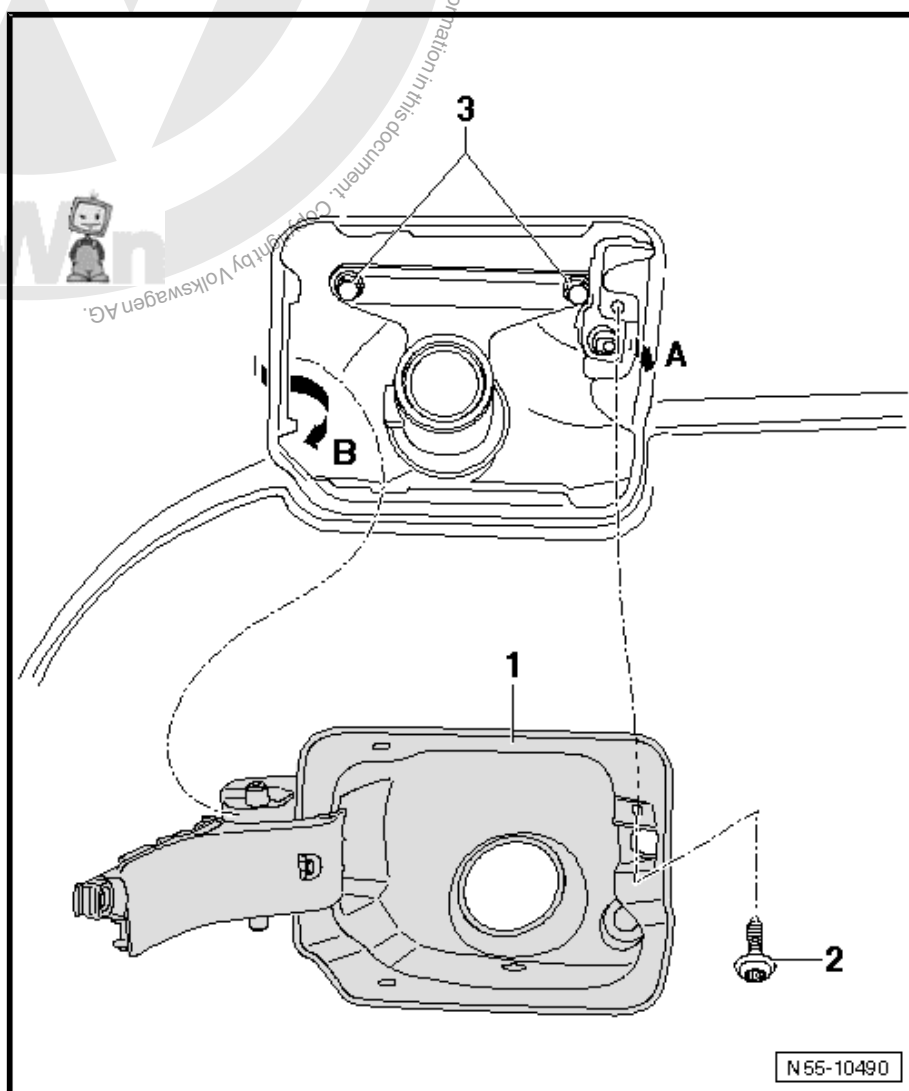
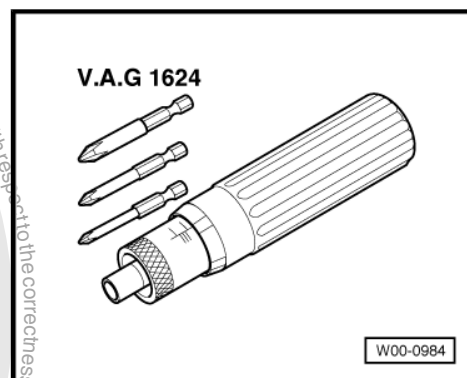
### 5.2 Removing and installing tank flap unit

Special tools and workshop equipment required





◆ Torque screwdriver -V.A.G 1624-



### Removing

- Remove tank flap ⇒ [page 78](#) .
- Remove bolt -2-.
- Peel rubber grommet off fuel filler neck.
- Pull tank flap unit -1- forwards -arrow A-.
- Swivel tank flap unit -1- out of side part -arrow B-.





#### Note

- ◆ Bolts -3- are used for securing tank filler neck to load bed.
- ◆ Specified torque: 5 Nm

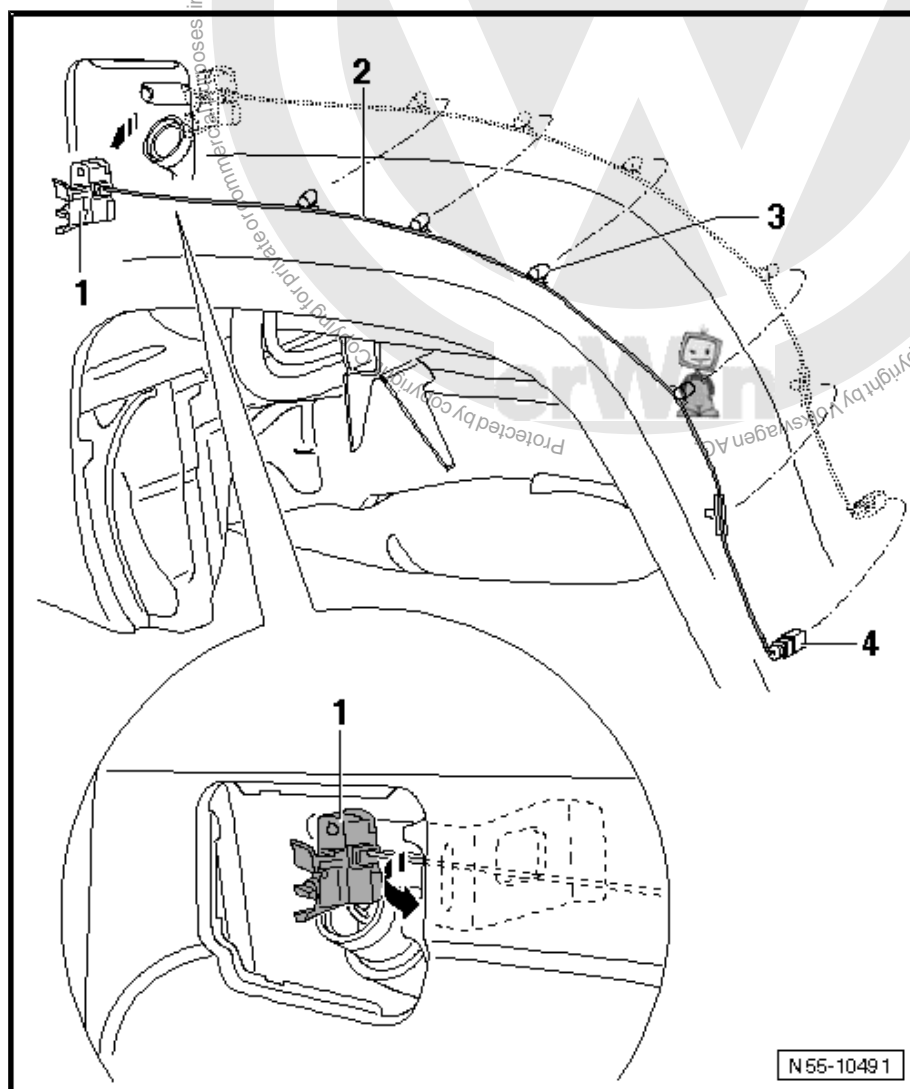
#### Installing

Installation is carried out in reverse order. When doing this, observe the following:

#### Specified torques

Component	Specified torques
Tank flap unit bolts	1.5 Nm

### 5.3 Removing and installing actuator



#### Removing

- Remove fuel tank flap unit ⇒ [page 78](#)
- Remove rear wheel housing liner ⇒ [page 306](#)





- Separate connectors -4-.
- Detach cable -2- from clips -3-.
- Swivel actuator -1- in -direction of arrow-.

### Installing

Install in reverse order of removal.







## 57 – Front doors, door components, central locking

### 1 Door

⇒ [“1.1 Assembly overview - door hinge on A-pillar”, page 82](#)

⇒ [“1.2 Assembly overview - door hinge on door”, page 84](#)

⇒ [“1.3 Removing and installing door inner seal”, page 84](#)

⇒ [“1.4 Removing and installing door”, page 86](#)

⇒ [“1.5 Adjusting striker”, page 88](#)

⇒ [“1.6 Removing and installing door hinge on A-pillar”, page 89](#)

⇒ [“1.7 Removing and installing door hinge on door”, page 90](#)

⇒ [“1.8 Removing and installing door arrester”, page 92](#)

#### 1.1 Assembly overview - door hinge on A-pillar



##### Note

- ◆ *Installation overview only shows left side. The right side is similar.*
- ◆ *Removal and installation are described for the upper door hinge. The procedure for the lower door hinge is similar.*





### 1 - Door

- ☐ Removing and installing  
⇒ [page 86](#)
- ☐ Adjusting ⇒ [page 88](#)

### 2 - Door hinge

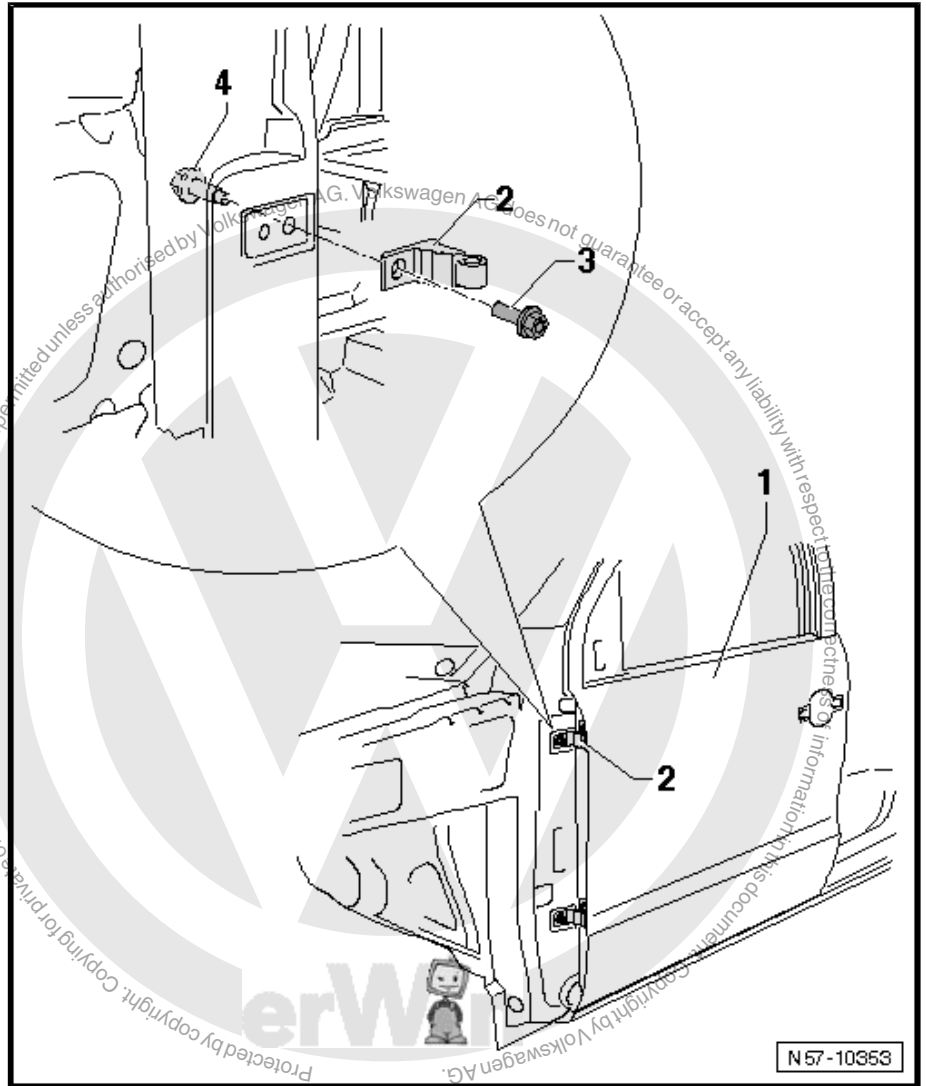
- ☐ The hinge is split and  
bolted to the A-pillar.

### 3 - Bolt

- ☐ Specified torques: 30  
Nm

### 4 - Bolt

- ☐ Installed from inside ve-  
hicle.
- ☐ Specified torques: 30  
Nm







## 1.2 Assembly overview - door hinge on door



### Note

The assembly overview is for the right side. The left side is similar.

#### 1 - Front door

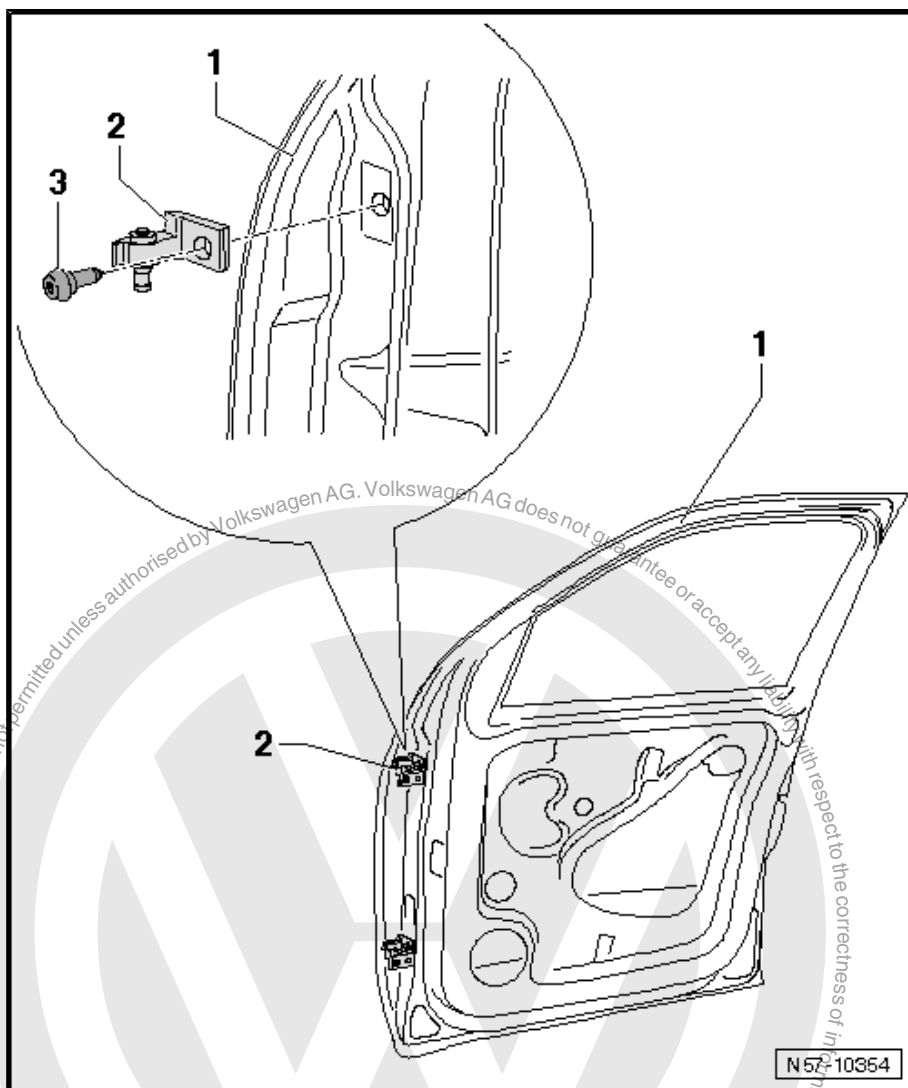
- ❑ Removing and installing  
⇒ [page 86](#)
- ❑ Adjusting ⇒ [page 88](#)

#### 2 - Door hinge

- ❑ Hinge is split and bolted to door.

#### 3 - Bolt

- ❑ Specified torques: 45 Nm
- ❑ Always renew after loosening.



## 1.3 Removing and installing door inner seal

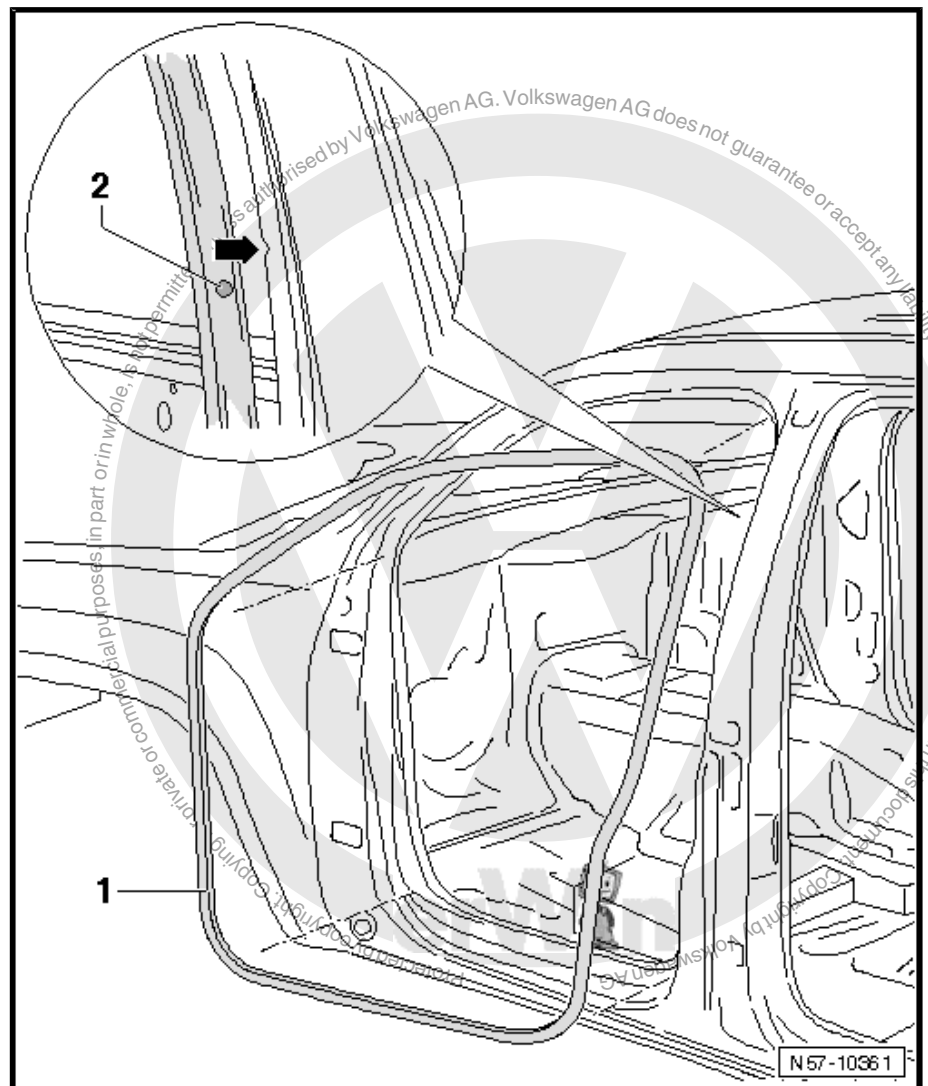
During production, a sealant is applied to the door inner seals, which are then placed on the door flange and rolled on.





## Note

- ◆ When removing the seal, the sealant is distributed across the inside of the seal.
- ◆ The edges are bent up slightly.
- ◆ If the seal is then refitted, sealing and firm seating are no longer guaranteed.
- ◆ Therefore each seal which is removed completely should be replaced by a so-called "tap-on" seal.
- ◆ If a seal has been partially removed, squeeze sides of seal together before refitting.
- ◆ The removal and installation sequence is only for the left door inner seal. The removal and installation of the right door inner seal is similar.



## Removing

- Loosen sill panel strip up to B-pillar ⇒ General body repairs, interior; Rep. gr. 68 ; Interior equipment; Sill panel strips .





- Pull door inner seal -1- off body flange.

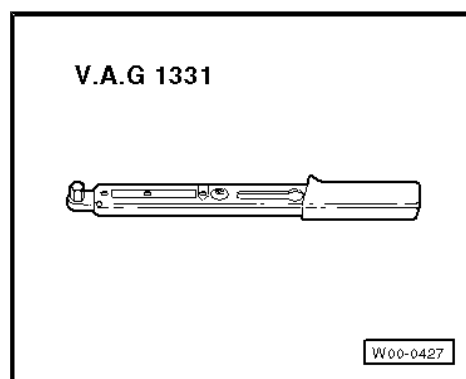
#### Installing

- Align door inner seal -1- with mark -2- on fixing point -arrow-.
- Start installing inner door seal -1- in upper radius of door aperture.

## 1.4 Removing and installing door

### Special tools and workshop equipment required

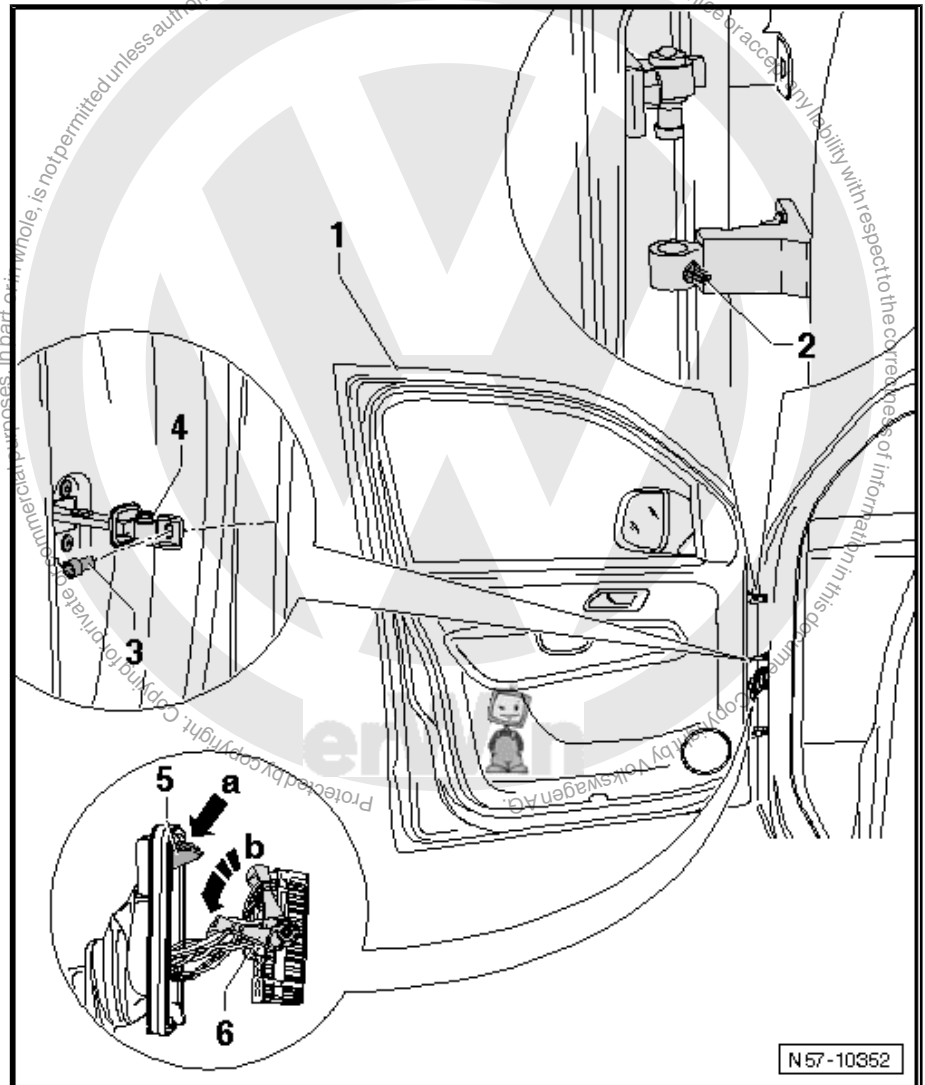
- ◆ Torque wrench -V.A.G 1331-



#### Note

Removal and installation are described for the left door. The removal and installation of the right door are similar.





### Removing

- Release boot -5- by pressing fastener -arrow a- and pull off A-pillar.
- Swing locking lever -6- downwards -arrow b- and disconnect electrical connector from coupling station.
- Unscrew bolts -2- on top and bottom hinges.
- Unscrew bolts -3- for door arrester -4-.
- Lift door -1- upwards out of hinges.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:

- Observe front door gaps ⇒ Body Repairs; Rep. gr. 00 ; Technical data; Body panel gaps/shut lines; Body - front .



### Note

*Specified torque for bolt -3- differs according to strength rating:*





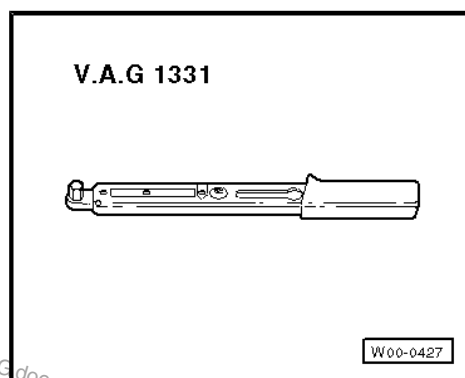
## Specified torques

Component	Specified torques
Bolt -3- on door arrester at 8.8	20 Nm
Bolt -3- on door arrester at 10.9	33 Nm
Hinge bolt	23 Nm

## 1.5 Adjusting striker

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-



### Note

- ◆ *Threaded plate of striker pin is secured in pillar using a method which differs from the previous method.*
- ◆ *Bow outside of threaded plate is welded firmly to pillar. Webs to threaded plate are plastically deformable.*
- ◆ *Increased forces must be applied so that striker pin can be adjusted with bolts loosened.*
- ◆ *The door must lock fully when closing without any additional force being required and must not have any play.*
- ◆ *The door must not be pushed up or down due to striker pin adjustment.*

The following can be adjusted at the striker pin:

- When the front door does not align with the rear door or the D-pillar.

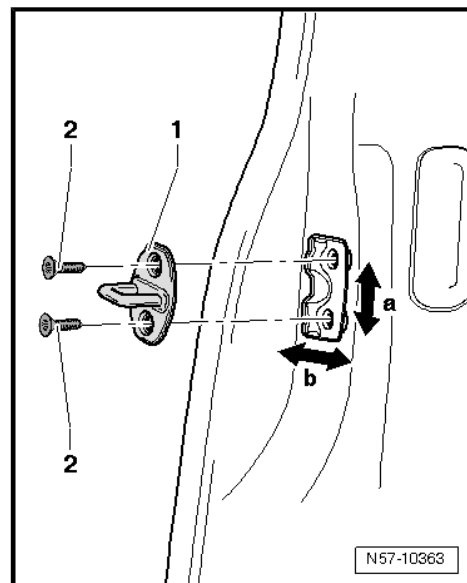




- Loosen striker -1- by loosening bolts -2- in B-pillar.
- Adjust striker -1- with light taps (plastic hammer) so that front door is flush with rear door or the B-pillar when shut (wind noise).
- Tighten bolts -2-.

#### Specified torques

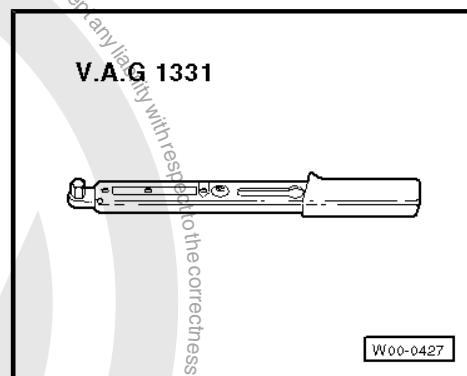
Component	Specified torques
Striker bolts	20 Nm



## 1.6 Removing and installing door hinge on A-pillar

### Special tools and workshop equipment required

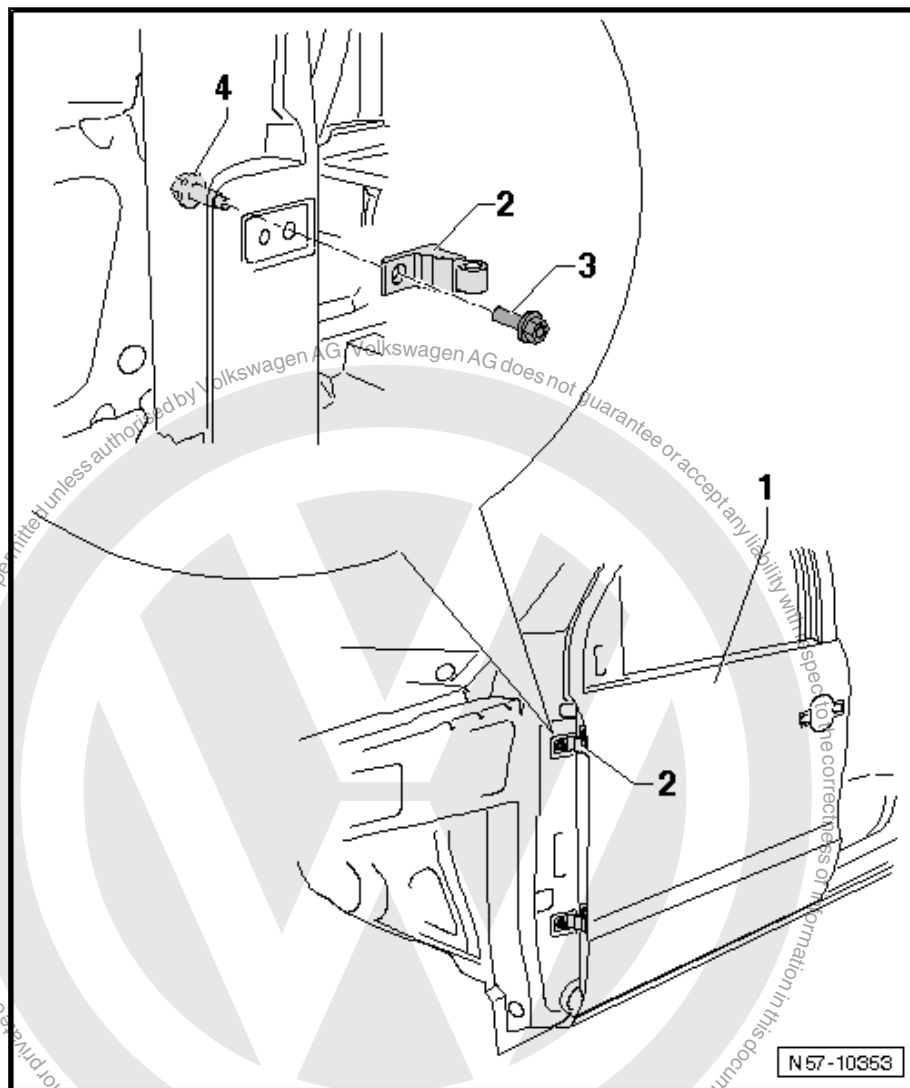
- ◆ Torque wrench -V.A.G 1331-



#### Note

Removal and installation are described for the left door. The removal and installation of the right door are similar.





### Removing

- Remove upper door hinge on dash panel cover ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel cover.
- Remove door hinge on A-pillar trim at bottom ⇒ General body repairs, interior; Rep. gr. 70 ; Trims, insulation; Pillars and side trims .
- Remove front door ⇒ [page 86](#) .
- Remove bolts -3- and -4-

### Installing

Installation is carried out in reverse order. When doing this, observe the following:

### Specified torques

- ♦ ⇒ [“1.1 Assembly overview - door hinge on A-pillar”, page 82](#) .

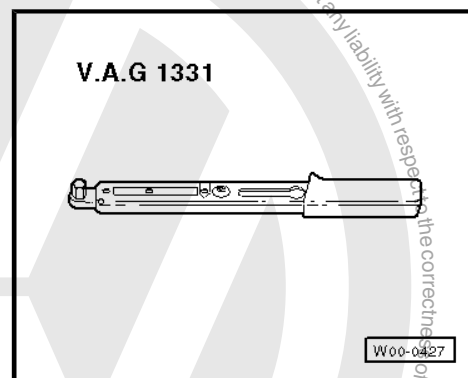
## 1.7 Removing and installing door hinge on door

Special tools and workshop equipment required



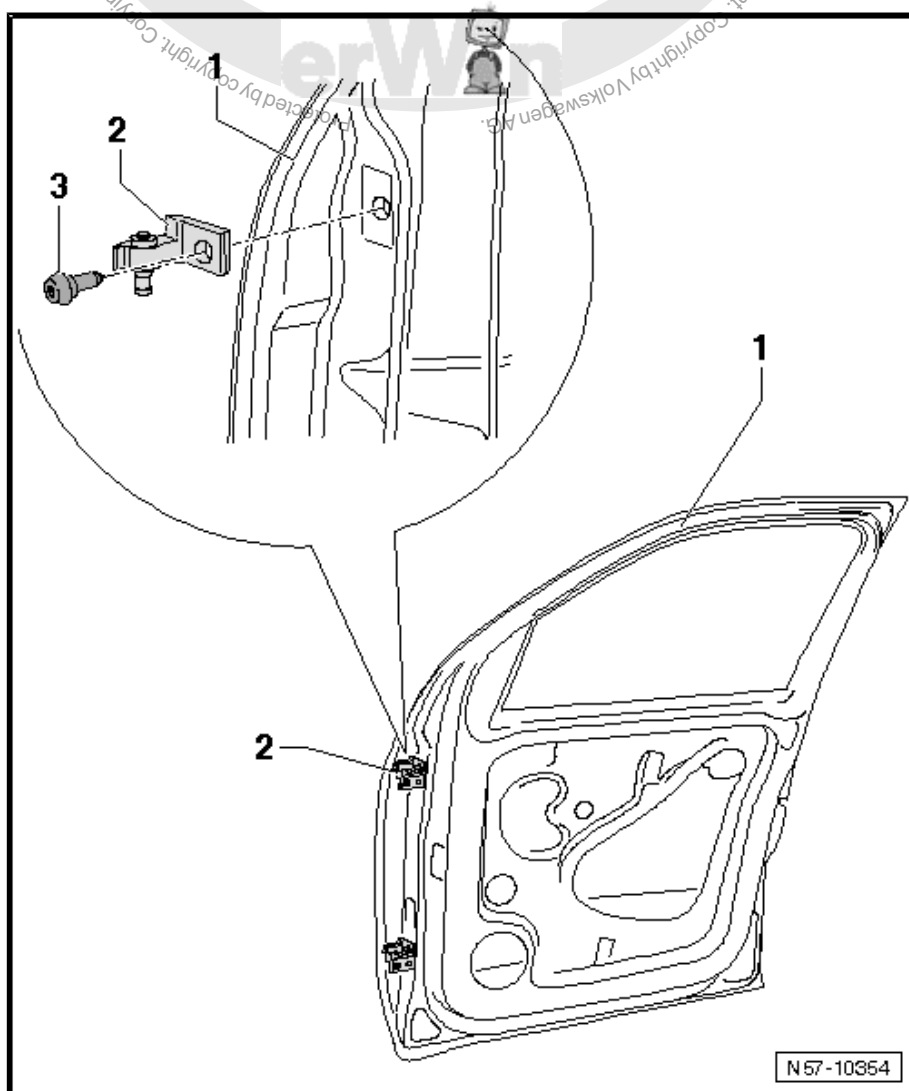


◆ Torque wrench -V.A.G 1331-



**i** Note

*Removal and installation are described for the upper door hinge. The lower door hinge is similar.*



**Removing**

- Remove front door ⇒ [page 86](#) .
- Remove bolts -3-.





- Pull door hinge -2- off front door.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:

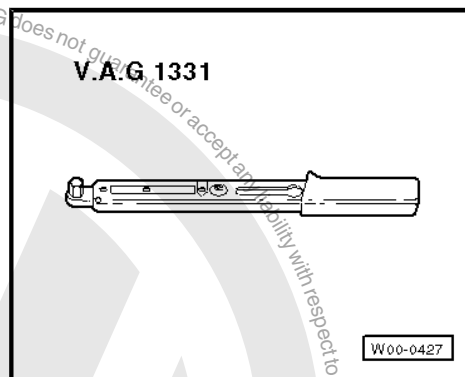
### Specified torques

- ♦ ⇒ ["1.1 Assembly overview - door hinge on A-pillar", page 82](#) .

## 1.8 Removing and installing door arrester

### Special tools and workshop equipment required

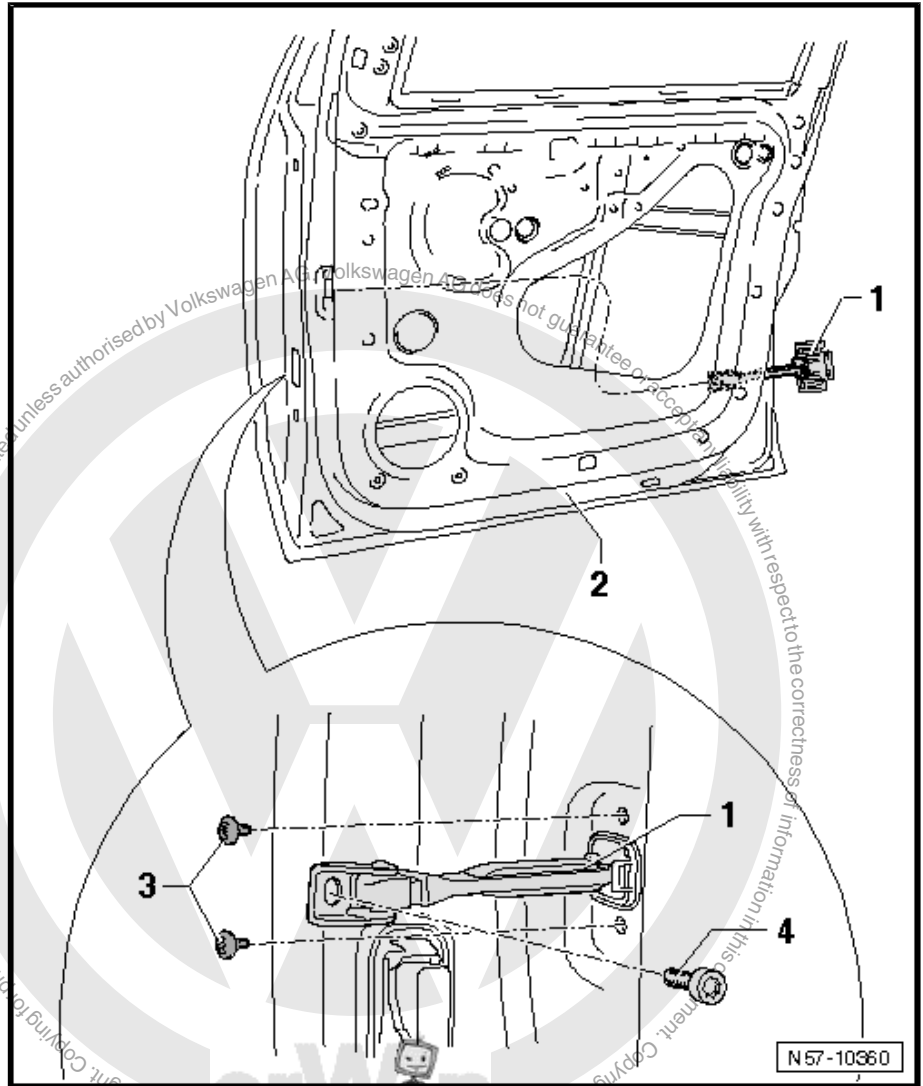
- ♦ Torque wrench -V.A.G 1331-



### Note

*The removal and installation sequence is only for the right door arrester. Removal and installation of the left door arrester is similar.*





### Removing

- Removing front door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim .
- Remove inside door film of front door ⇒ [page 348](#) .
- Unscrew bolt -4- in A-pillar.
- Remove bolts -3- and remove door arrester -1- through opening in door.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:

### Specified torques

Component	Specified torques
Bolts -3-	9.0 Nm
Bolt -4-	33 Nm









## 2 Door components

- ⇒ ["2.1 Assembly overview - door components", page 95](#)
- ⇒ ["2.2 Assembly overview - window regulator", page 97](#)
- ⇒ ["2.3 Assembly overview - door lock", page 98](#)
- ⇒ ["2.4 Assembly overview - door lock cover", page 99](#)
- ⇒ ["2.5 Assembly overview - cap", page 100](#)
- ⇒ ["2.6 Assembly overview - window regulator motor", page 101](#)
- ⇒ ["2.7 Removing and installing window regulator motor", page 101](#)
- ⇒ ["2.8 Removing and installing window regulator", page 103](#)
- ⇒ ["2.9 Removing and installing door handle", page 105](#)
- ⇒ ["2.10 Removing and installing door lock", page 105](#)
- ⇒ ["2.11 Removing and installing window channel", page 108](#)
- ⇒ ["2.12 Removing and installing lock cylinder", page 109](#)
- ⇒ ["2.13 Removing and installing housing \(without lock cylinder\)", page 111](#)
- ⇒ ["2.14 Removing and installing inner door handle", page 113](#)
- ⇒ ["2.15 Removing and installing door handle bracket", page 115](#)
- ⇒ ["2.16 Removing and installing striker", page 117](#)
- ⇒ ["2.17 Removing and installing window slot outer seal", page 117](#)
- ⇒ ["2.18 Removing and installing window slot inner seal", page 119](#)
- ⇒ ["2.19 Removing and installing top door seal", page 121](#)
- ⇒ ["2.20 Removing and installing bottom door seal", page 122](#)
- ⇒ ["2.21 Assembly overview - impact rail of front door", page 123](#)
- ⇒ ["2.22 Removing and installing loudspeaker in front door", page 123](#)

### 2.1 Assembly overview - door components



#### Note

Only the left side is shown. The right side is similar.

#### 1 - Locking rod

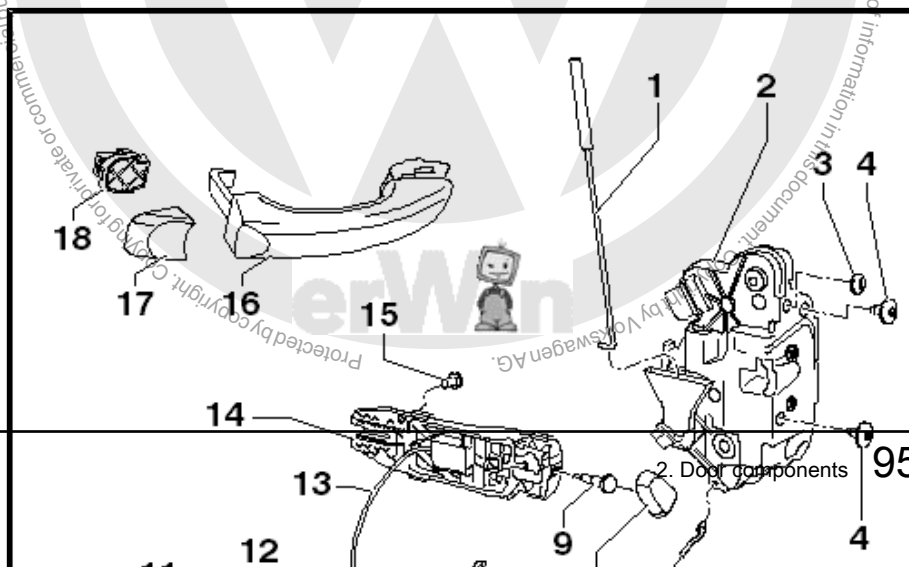
- ☐ Right and left
- ☐ Clipped into door lock -2-

#### 2 - Door lock

- ☐ Right and left
- ☐ Removing and installing  
⇒ [page 105](#)

#### 3 - Cover

- ☐ Emergency locking







#### 4 - Bolt

- ☐ Right and left
- ☐ Specified torque: 20 Nm.
- ☐ Qty. 2

#### 5 - Cable

- ☐ Right and left
- ☐ From inner door handle -6- to door lock -2-

#### 6 - Door lock cover

- ☐ Right and left
- ☐ Assembly sequence ⇒ [page 99](#)

#### 7 - Interior door handle

- ☐ Right and left
- ☐ Removing and installing ⇒ [page 113](#)

#### 8 - Cover

- ☐ Right and left
- ☐ For the bolt -8- of lock cylinder

#### 9 - Bolt

- ☐ Right and left
- ☐ For lock cylinder.
- ☐ Specified torque: 2.5 Nm.

#### 10 - Cover

- ☐ Removing and installing with lock cylinder ⇒ [page 109](#) .

#### 11 - Lock cylinder

- ☐ Removing and installing ⇒ [page 109](#)
- ☐ A lock cylinder can only be found in the driver door.

#### 12 - Base

- ☐ Clipped into door

#### 13 - Cable

- ☐ From door lock to door handle bracket.

#### 14 - Door handle bracket

- ☐ Right and left
- ☐ Removing and installing ⇒ [page 115](#)

#### 15 - Bolt

- ☐ Specified torque: 1.5 Nm.
- ☐ Bearing plate is loosened from door when this bolt is loosened

#### 16 - Right door handle

- ☐ Right and left
- ☐ Removing and installing ⇒ [page 105](#)

#### 17 - Cover

- ☐ Right door
- ☐ Removing and installing ⇒ [page 111](#)

#### 18 - Housing

- ☐ Right door
- ☐ Removing and installing ⇒ [page 111](#)





## 2.2 Assembly overview - window regulator

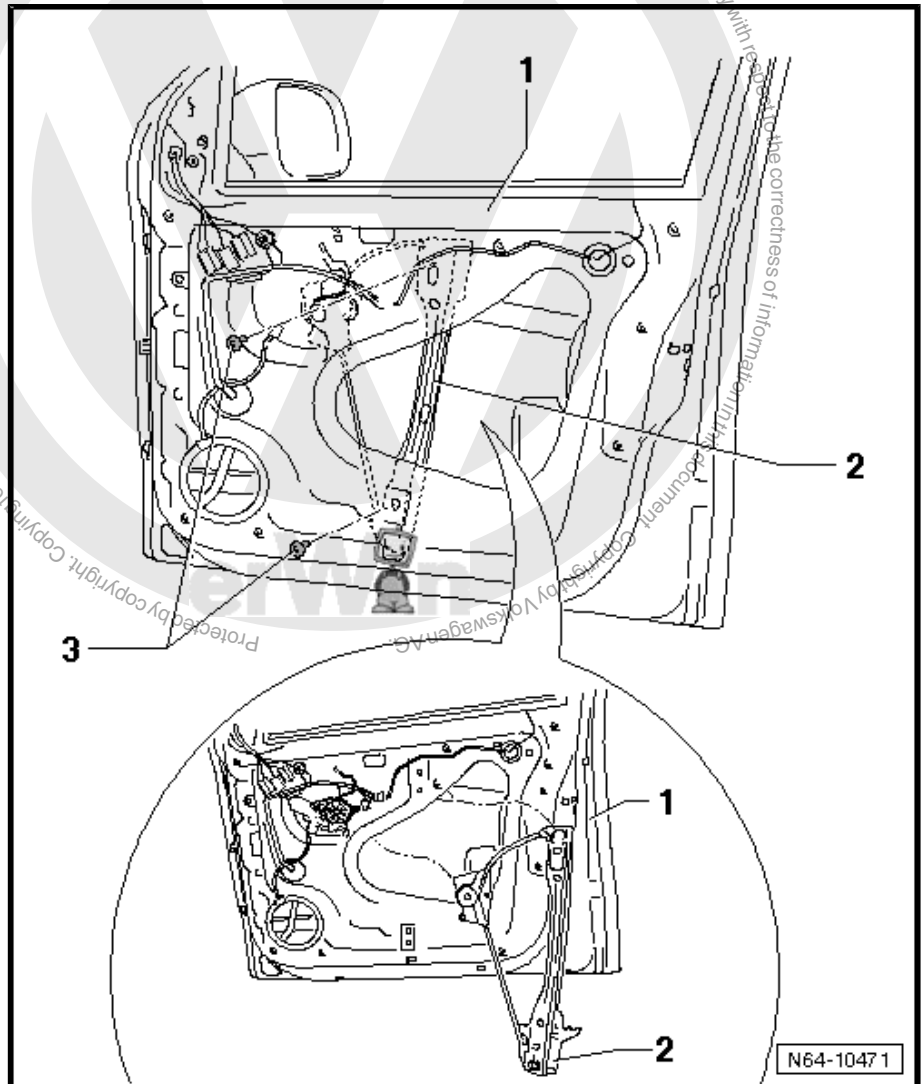
1 - Front door

2 - Window regulator

- Removing and installing  
⇒ [page 103](#)

3 - Bolt

- Qty. 2
- Specified torque: 9 Nm







## 2.3 Assembly overview - door lock

### 1 - Door lock

- ❑ Removing ⇒ [page 105](#)

### 2 - Bowden cable

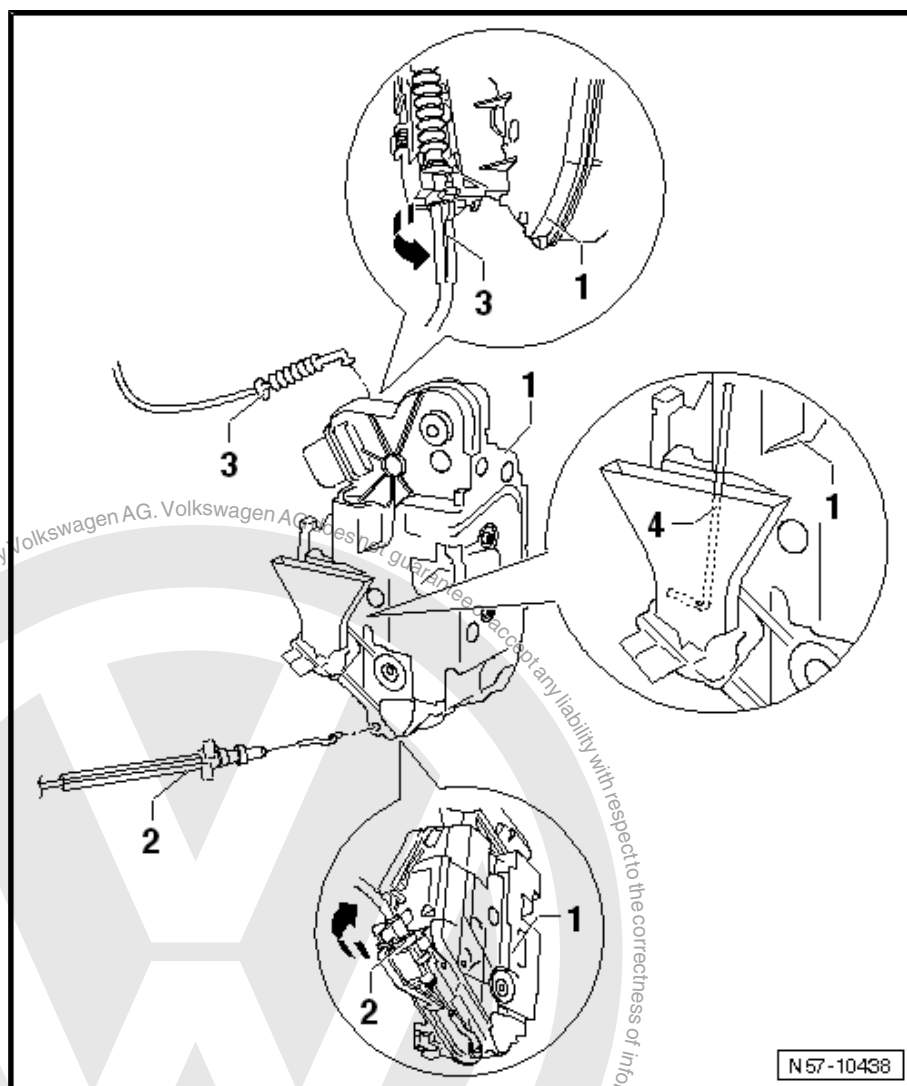
- ❑ To inner door handle  
⇒ [page 113](#)

### 3 - Bowden cable

- ❑ To door handle bracket  
⇒ [page 115](#)

### 4 - Locking rod

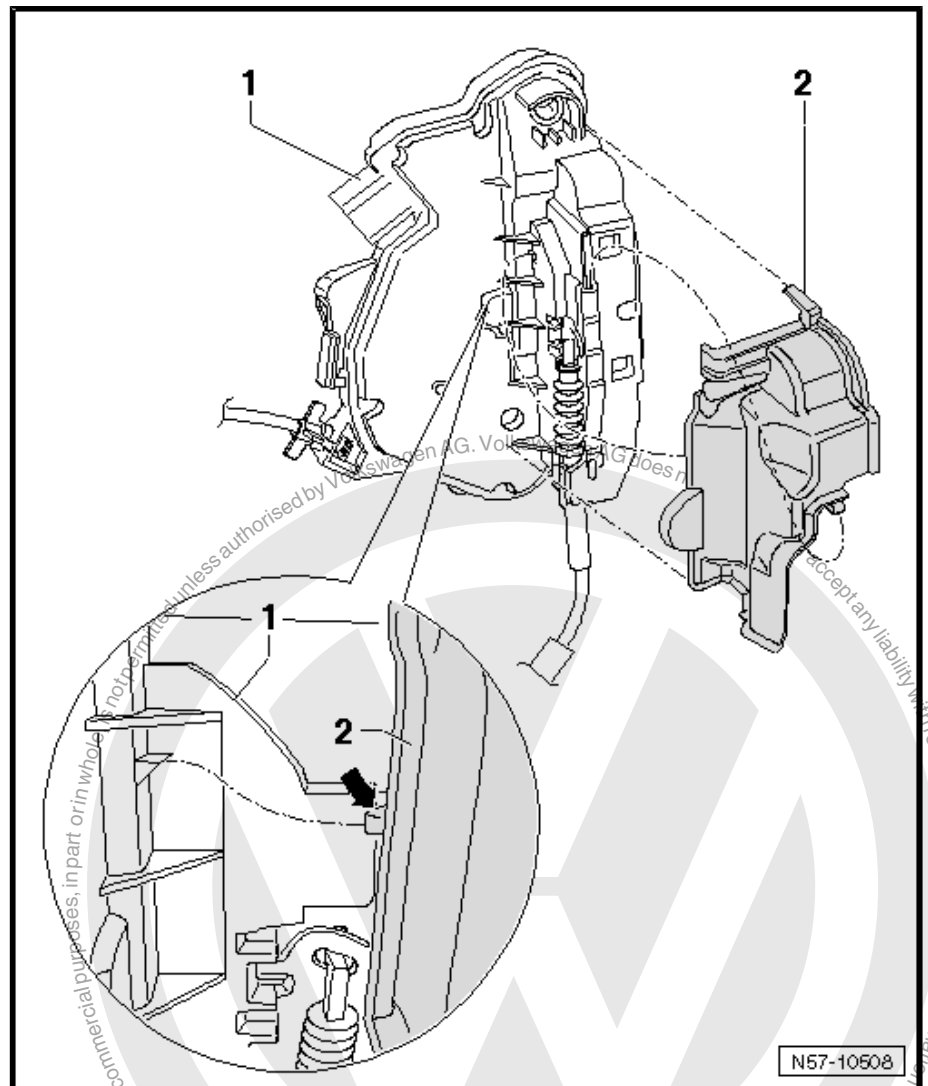
- ❑ For mechanical door lock
- ❑ The end of the rod must always point away from the B-pillar.







## 2.4 Assembly overview - door lock cover



### Assembly sequence:

- Fit cover cap -2- onto door lock -1-.
- Slide cover cap -2- downwards and at the same time guide door lock -1- into U-profile.
- Lug -arrow- of cover cap -2- must be pressed down and engage audibly in door lock -1-.





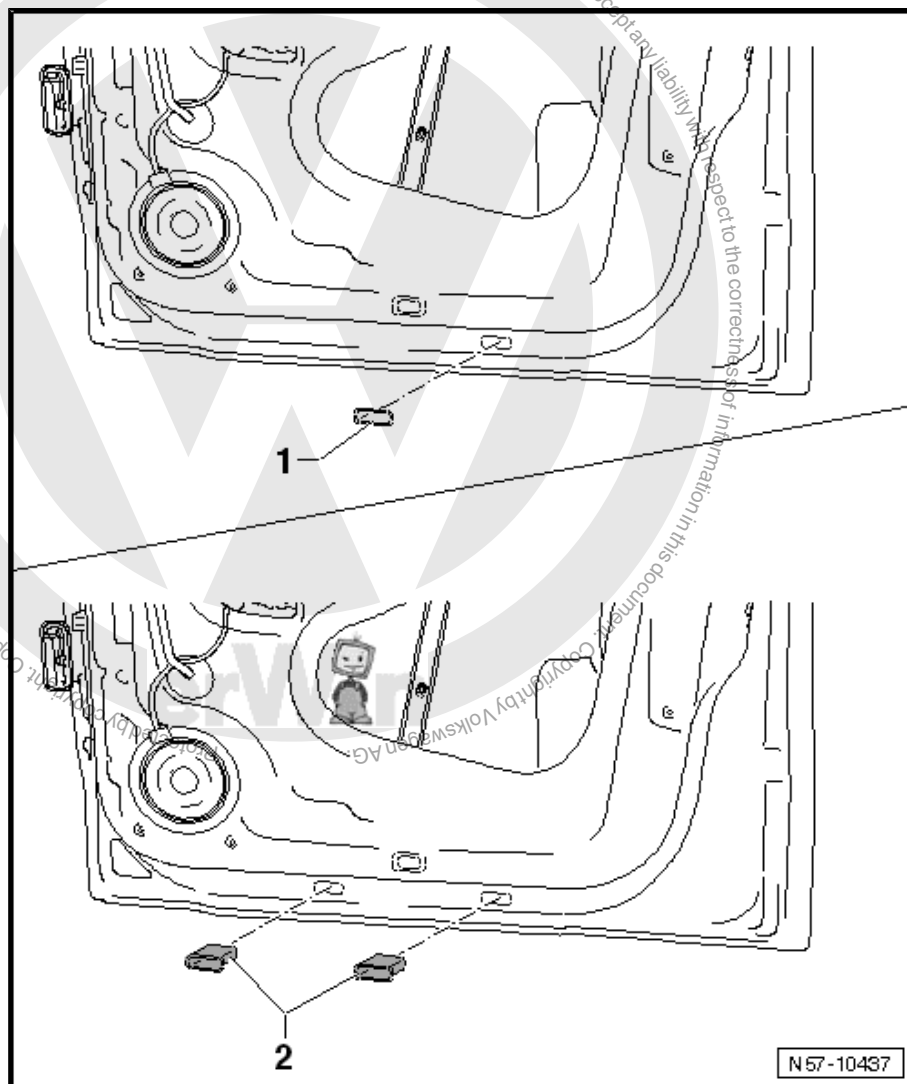
## 2.5 Assembly overview - cap

### 1 - Cap

- ☐ For vehicles without door seal

### 2 - Grommet

- ☐ For vehicles with door seal







## 2.6 Assembly overview - window regulator motor

### 1 - Window regulator motor

- ☐ Removing and installing  
⇒ [page 101](#)

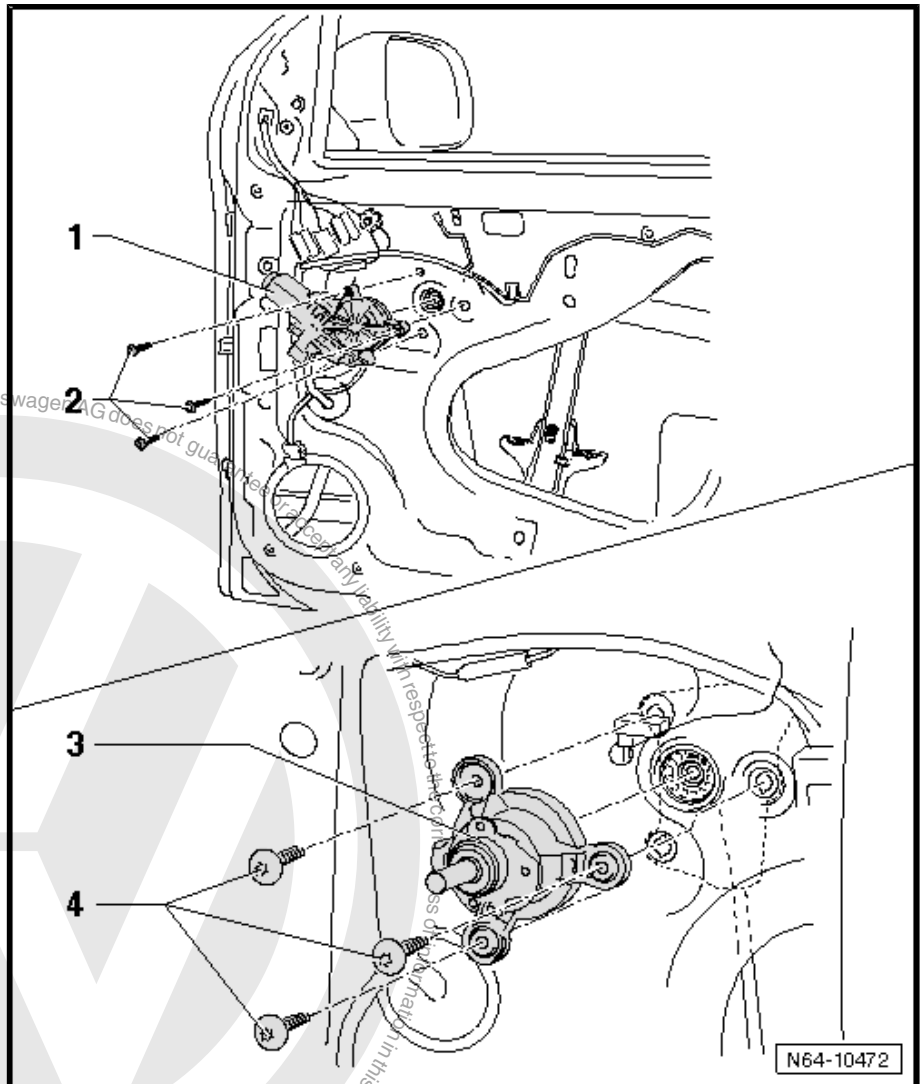
### 2 - Bolt

- ☐ Qty. 3
- ☐ Specified torque: 3 Nm

### 3 - Manual drive unit

### 4 - Bolt

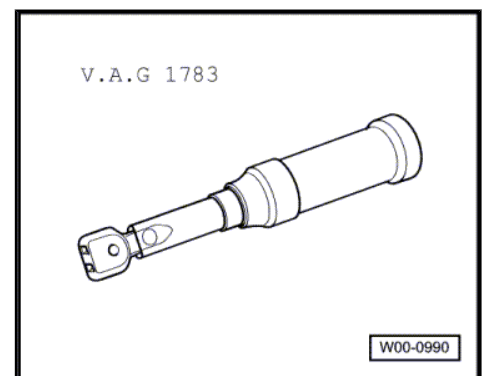
- ☐ Qty. 3
- ☐ Specified torque: 3 Nm



## 2.7 Removing and installing window regulator motor

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-





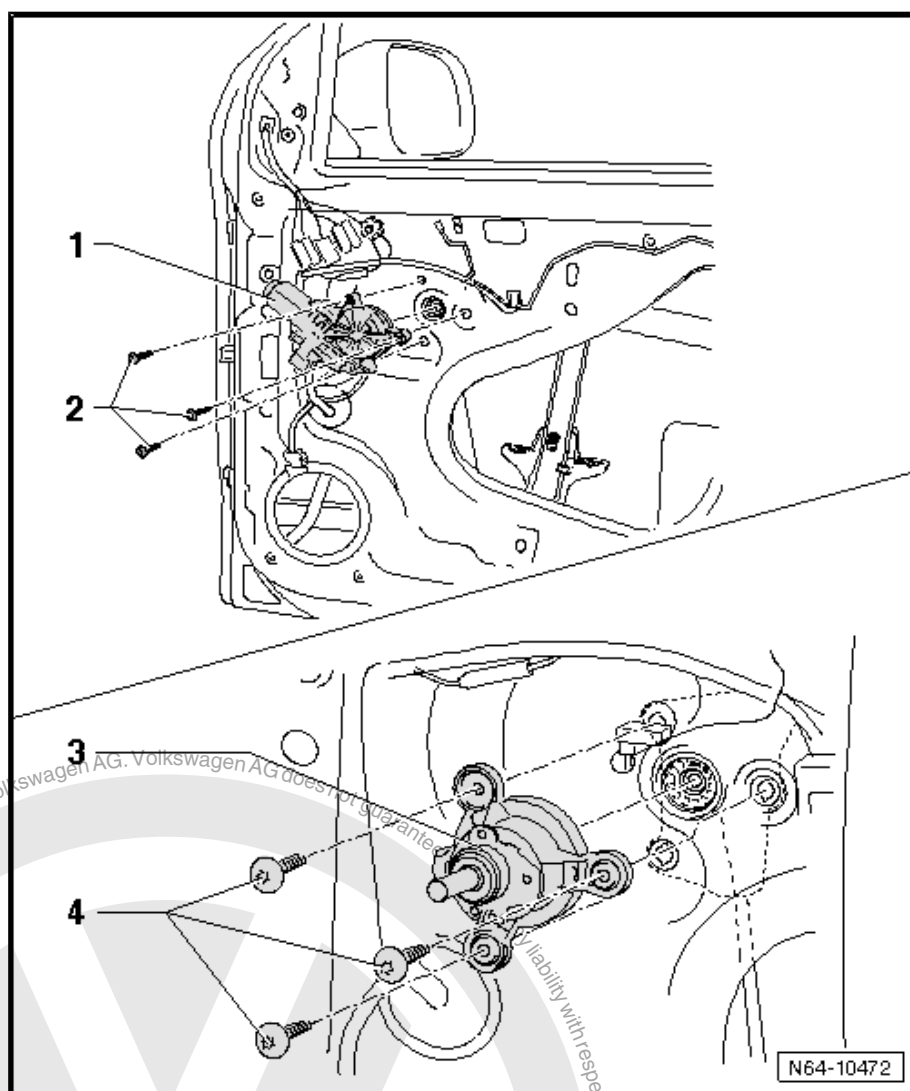


## Removing



### Note

- ◆ Removal is described only for the right window regulator motor. Removal of left window regulator motor is similar.
- ◆ Removal of manual window regulator -3- is similar.



- Removing front door trim ⇒ General body repairs, interior;  
Rep. gr. 70 ; Door trims .
- Pull off inside door film.
- Secure door window against sliding down with adhesive tape.
- Disconnect electrical connector.
- Remove 3 bolts -2- (or bolts -4-).
- Remove window regulator motor with control unit -1- (or window regulator -3-) from retainers.





## Installing



### Note

- ◆ *Installation is described only for the right window regulator motor. Installation of left window regulator motor is similar.*
- ◆ *Installation of manual window regulator -3- is similar.*



### WARNING

***If a new window regulator motor is installed (door control unit), the additional functions and the excess force limitation feature have to be coded!***

- Insert window regulator motor -1- into retainers. Move door window slightly up and down so that the splines between motor and cable drum engage easier.
- Secure electrical connector.
- A new window regulator motor is coded using vehicle diagnosis, testing and information system -VAS 5051 A- .
- After coding, allow window regulators to move up to stop once automatically. Then pull switch again for 2 seconds. This programs the upper stop for the window regulator motor.
- Then perform remaining installation in reverse order of removal.

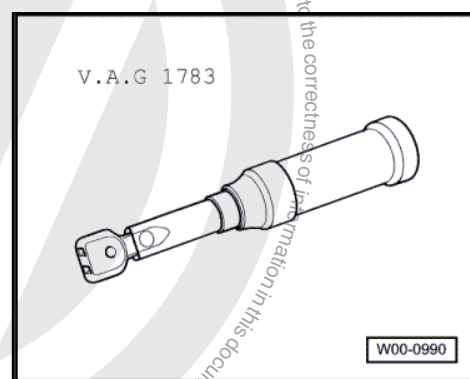
### Specified torques

- ◆ ⇒ "2.6 Assembly overview - window regulator motor", page 101 .

## 2.8 Removing and installing window regulator

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-



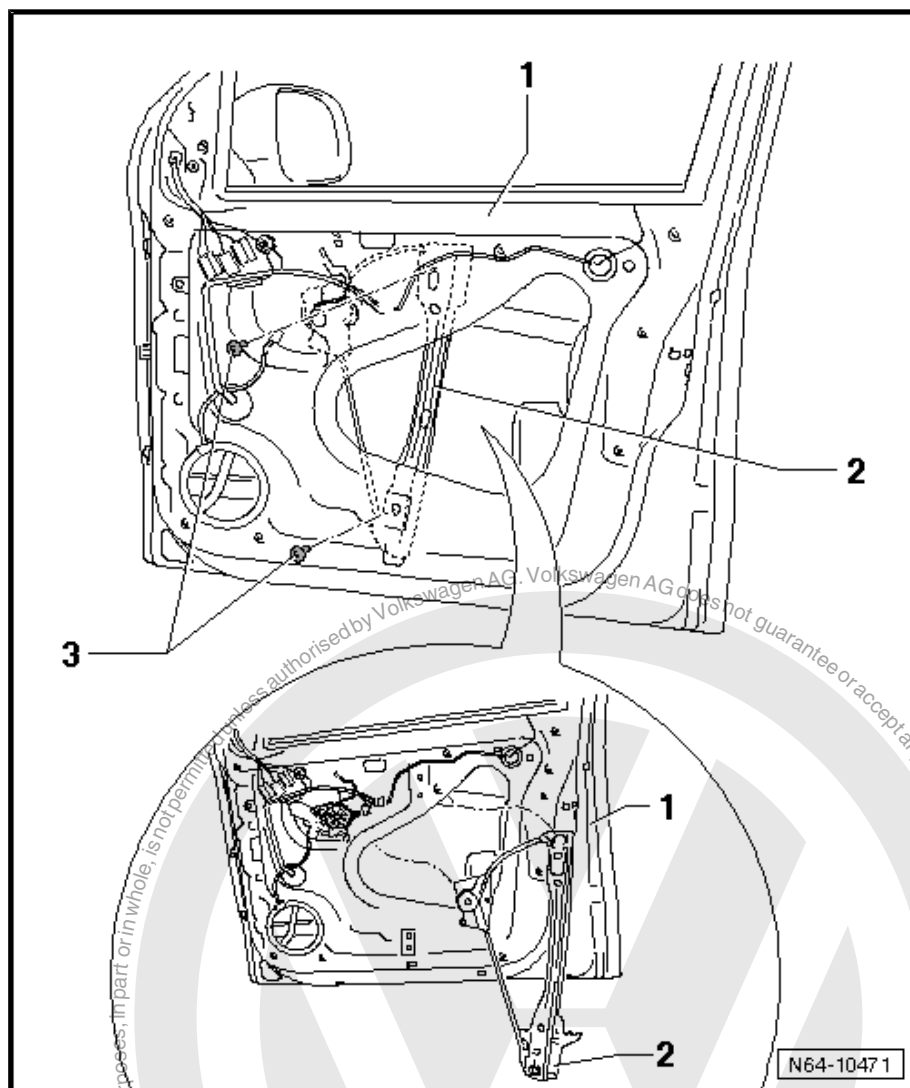
## Removing



### Note

*Removal and installation are described only for the right window regulator. The removal and installation of the left window regulator is similar.*





- Removing front door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trims .
- Remove inside door film of front door ⇒ [page 348](#) .
- Remove front door window ⇒ [page 275](#) .
- Removing window regulator motor ⇒ [page 101](#)
- Remove the 2 bolts -3-.
- Unlock retaining hooks on cable drum.
- Swing window regulator -2- into door.
- Guide window regulator -2- to cut-out in door -1- and remove it.

#### Installing

- Guide window regulator -2- through cut-out into door -1-.
- Guide window regulator to its installation locations.
- Insert thread of window regulator through door and tighten bolts -3-.
- Push cable drum -1- through holes in door, retaining hooks must audibly engage.





- Then perform remaining installation in reverse order of removal.

#### Specified torques

- ♦ ⇒ [“2.2 Assembly overview - window regulator”, page 97](#).

## 2.9 Removing and installing door handle



#### Note

*Removal and installation are described only for the right door handle. The removal and installation of the left door handle are similar.*

#### Removing

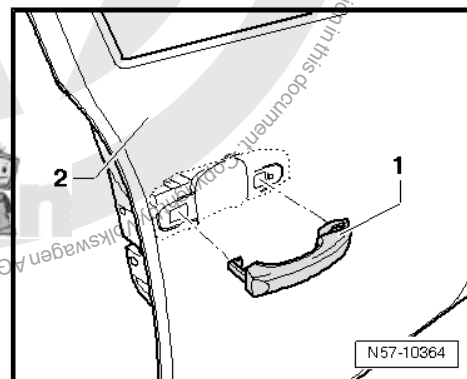
- Remove lock cylinder ⇒ [page 109](#) or remove housing ⇒ [page 111](#).
- Pull door handle -1- backwards slightly out of retainer for bearing bracket.
- Swing door handle around and remove from door -2- at right angles.

#### Installing

- Insert door handle -1- into bearing bracket at right angles.
- Swing door handle -1- into door -2-.
- Push door handle -1- forward with force into retainer in bearing bracket.

Installing lock cylinder ⇒ [page 109](#) or installing housing ⇒ [page 111](#).

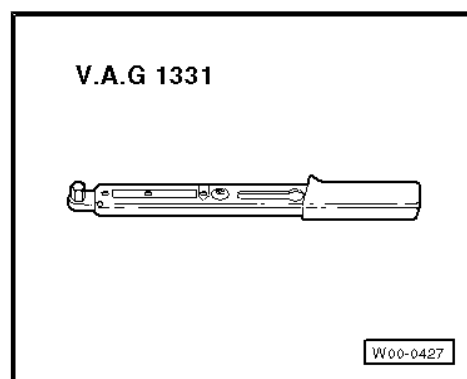
- It is essential that the function then be checked with the door open.



## 2.10 Removing and installing door lock

#### Special tools and workshop equipment required

- ♦ Torque wrench -V.A.G 1331-



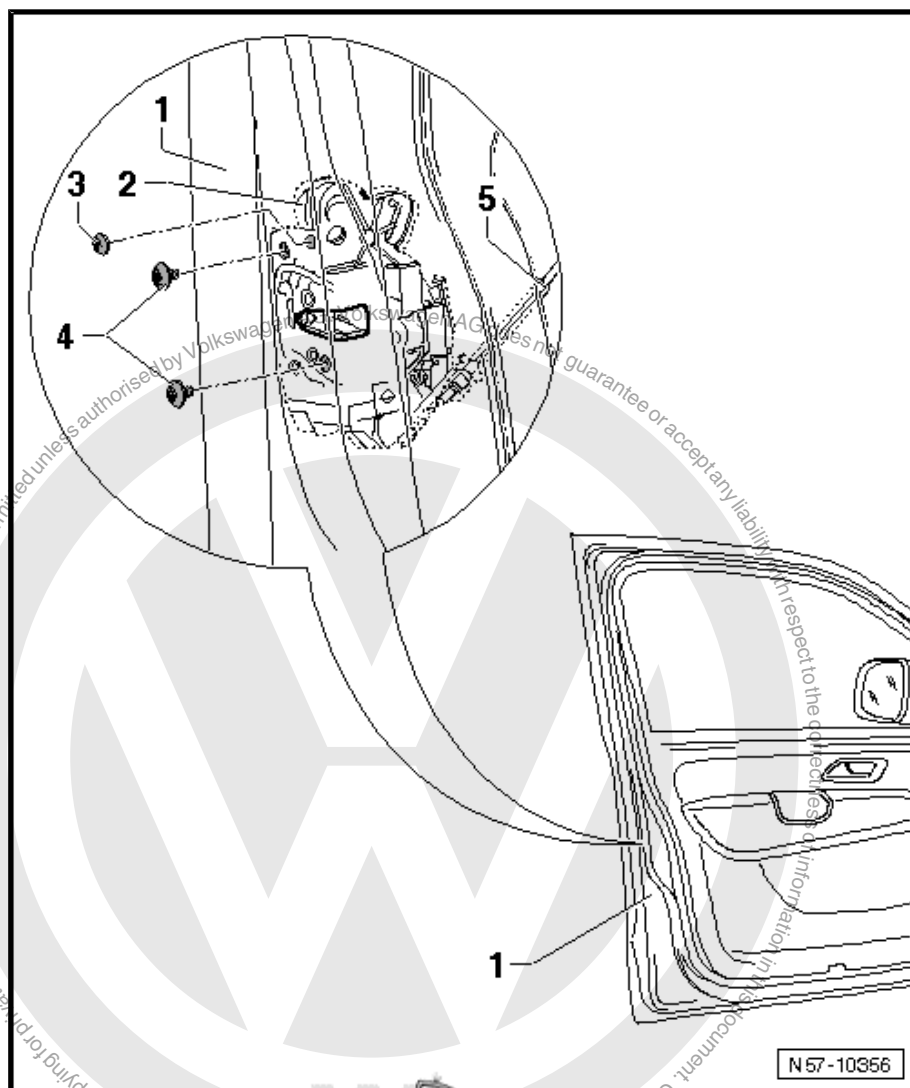
#### Removing



#### Note

*Removal and installation are described only for the left door lock. The removal and installation of the right door lock are similar.*





- Removing front door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim .
- Remove lock cylinder ⇒ [page 109](#) or remove housing ⇒ [page 111](#) .
- Remove inside door film of front door ⇒ [page 348](#) .
- Separate electrical connector (if present).



**Note**

*Cover cap -3- for emergency locking need not be removed.*

- Remove bolts -4-.
- Remove door lock -2- from door -1-.



**Note**

*Release Bowden cables in door if required for subsequent work.*

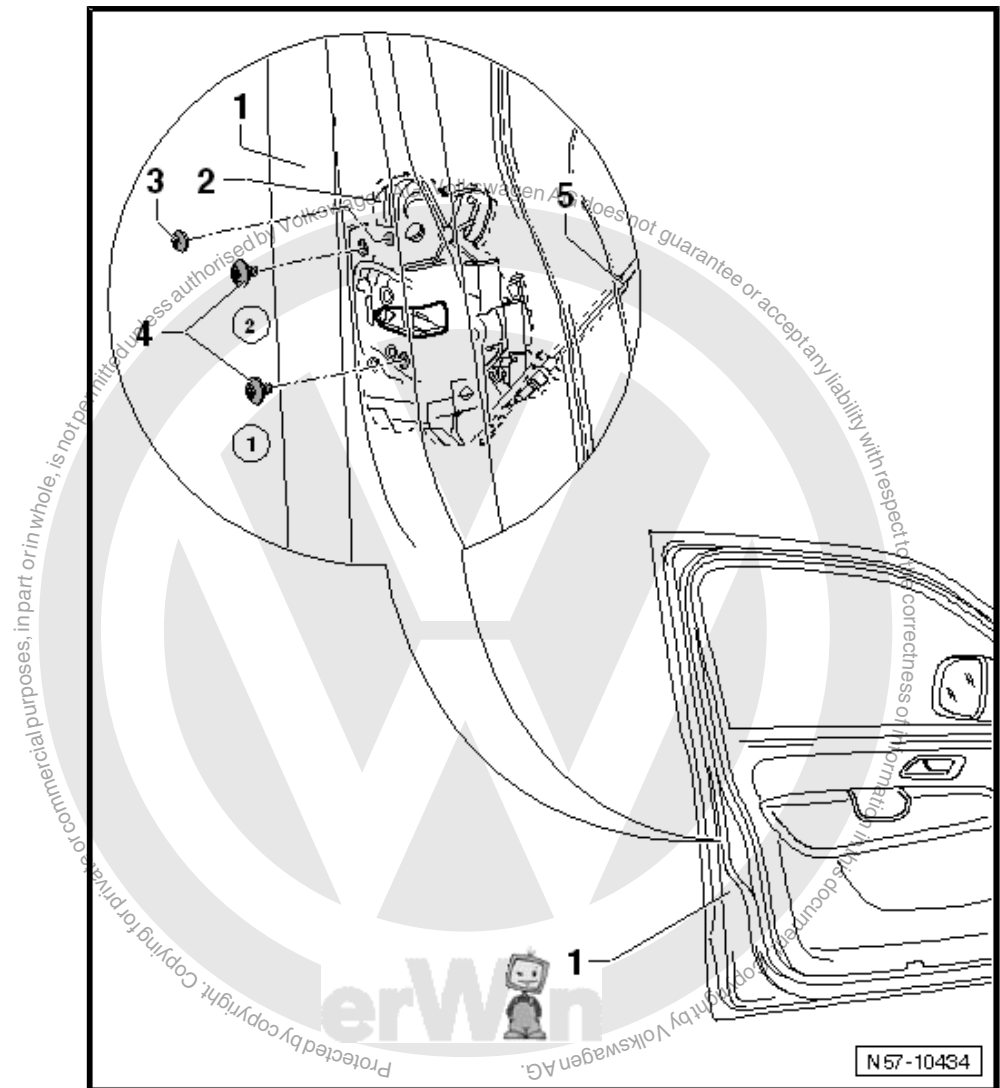
- Unclip Bowden cable -5- for door handle bracket ⇒ [page 115](#) .





- Unclip Bowden cable for inner door handle ⇒ [page 113](#) .

## Installing



Installation is carried out in reverse order. When doing this, observe the following:



### Note

*The fitting sequence specified for the bolts -4- must be adhered to.*

The sequence in which the bolts -4- are tightened can be seen in the illustration.

- Afterwards, the function must be checked, as an incorrectly adjusted or incorrectly engaged cable cannot open the door lock -2-.

### Specified torques

Component	Specified torques
Door lock bolts	20 Nm





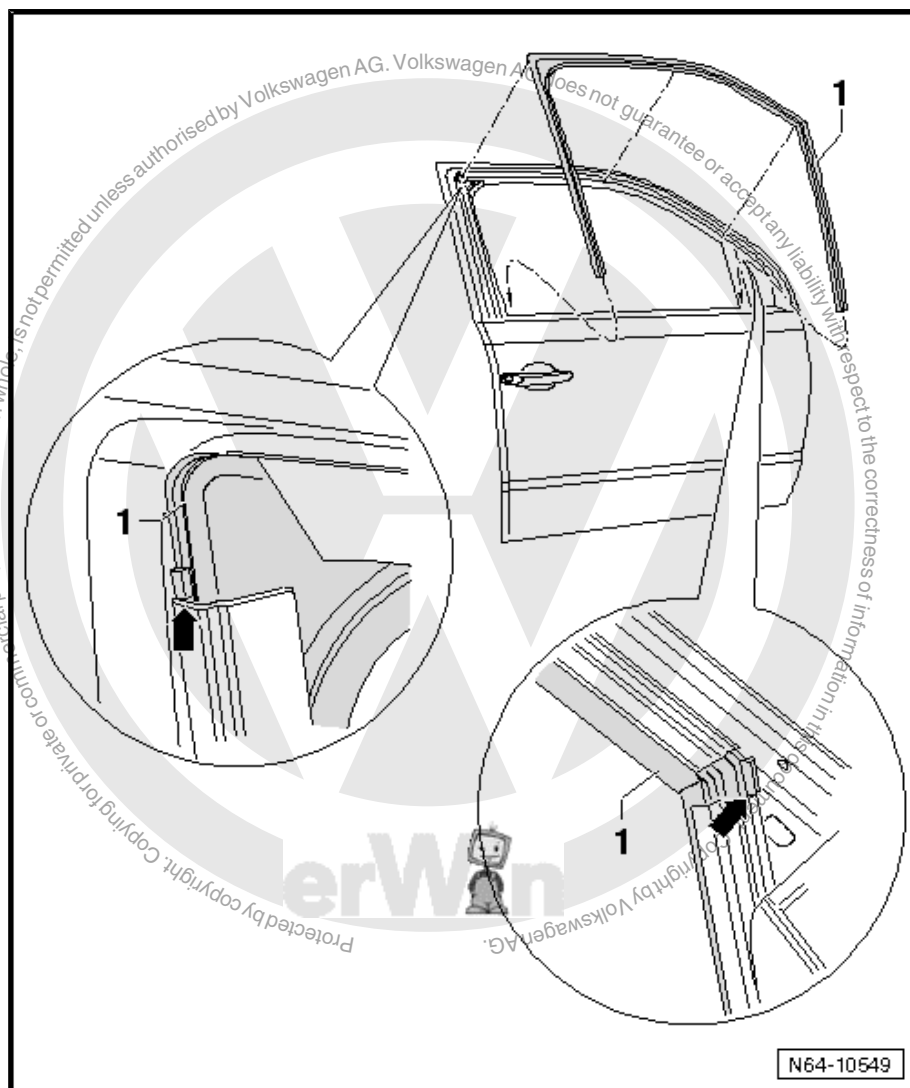
## 2.11 Removing and installing window channel

### Removing



#### Note

*Removal and installation are described only for the right window channel. The removal and installation of the left window channel is similar.*



- Remove exterior mirror ➔ [page 300](#) .
- Remove window slot outer seal ➔ [page 119](#) .
- Peel sealing lip of window channel off the door flange from the outside.
- Pull window channel -1- off door flange uniformly all round.
- Pull window channel -1- out of supports.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:





- Push window channel -1- into mountings.
- First, roll outer sealing lip of window channel onto door flange.
- Fit window channel -1- onto door flange evenly all round.



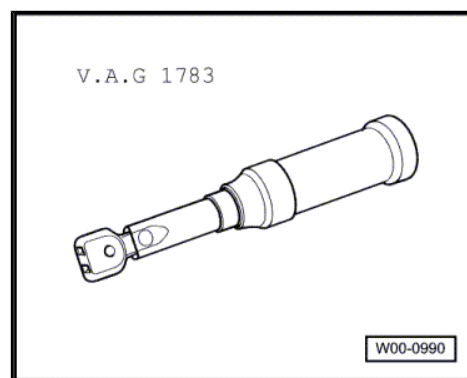
#### Note

- ◆ *Positioning marks -arrows- must rest on the frame section.*
- ◆ *To prevent wind noise, ensure window channel seats evenly when installing.*
- Carry out functional test function before installing door trim.

## 2.12 Removing and installing lock cylinder

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-

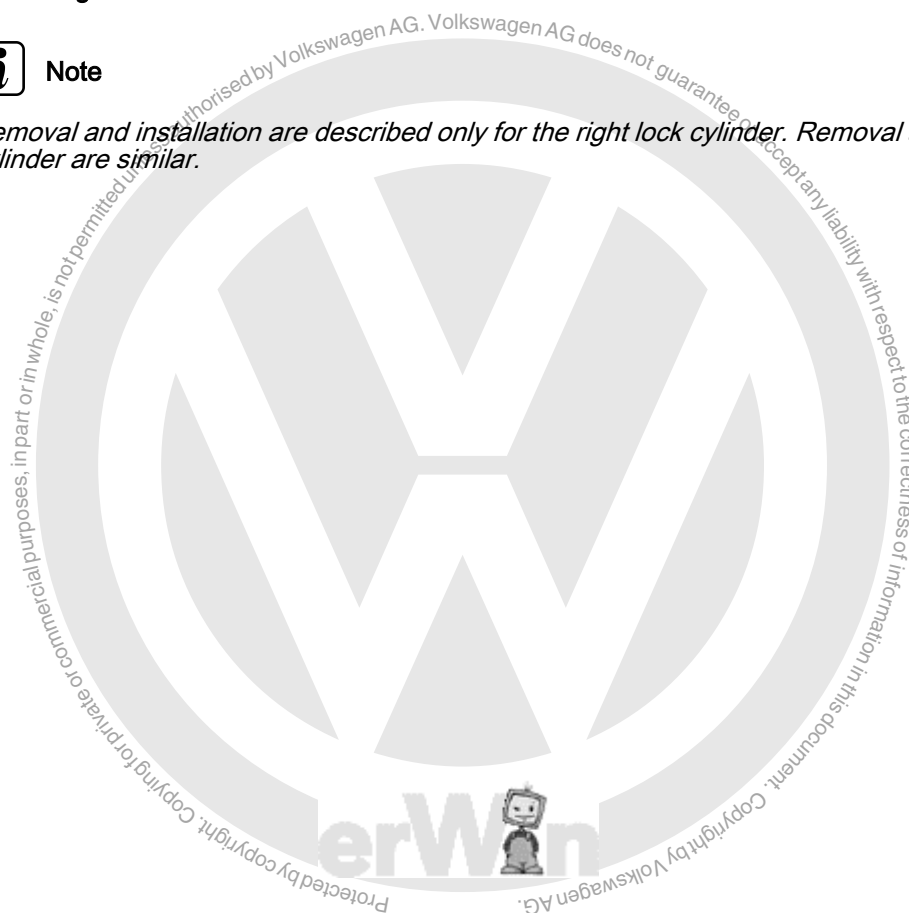


### Removing

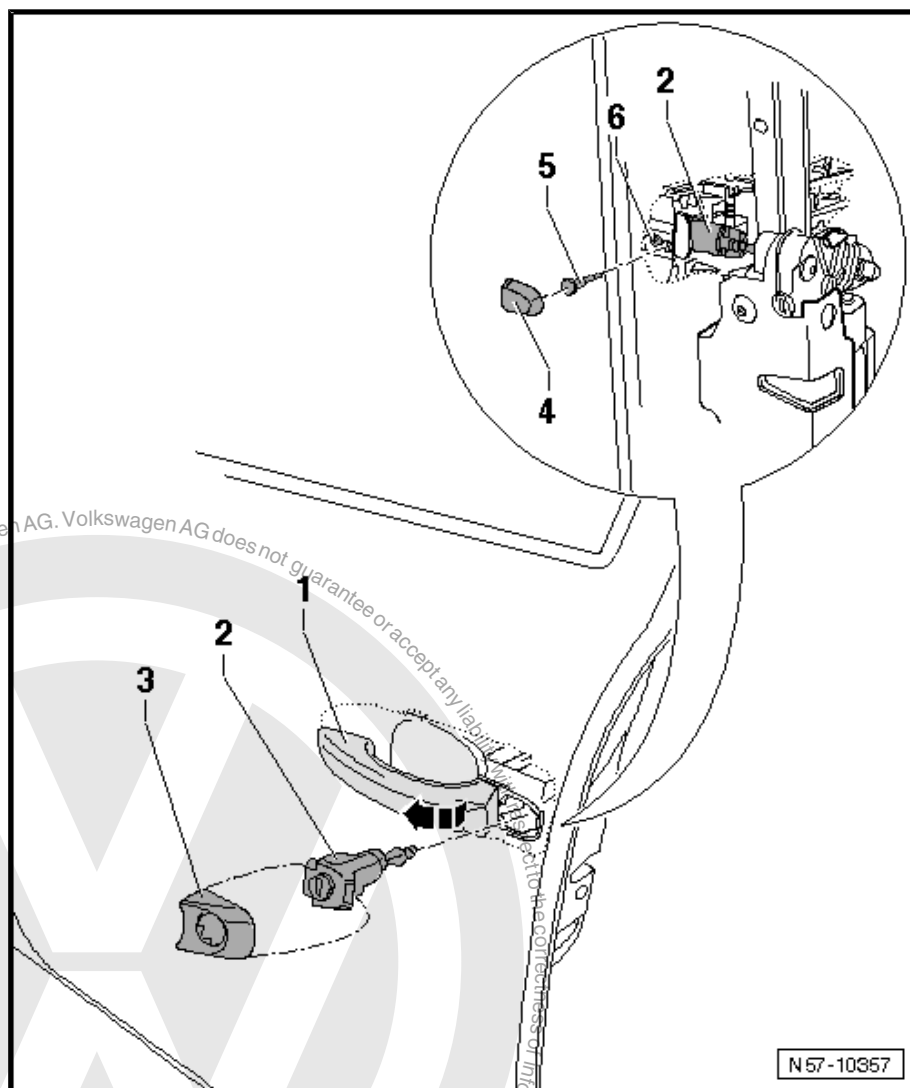


#### Note

*Removal and installation are described only for the right lock cylinder. Removal and installation of the left lock cylinder are similar.*







- Unclip cover cap -3- from lock cylinder -2-.
- Prise plug -4- out of opening.
- Remove bolt -5-.
- Screw out bolt -6- to stop.
- Push bolt -6- in again. Only then is the lock cylinder -2- released.
- Pull door handle -1- off door in -direction of arrow-.
- Pull lock cylinder housing -2- out of door handle bracket at right angles.

#### Installing

- Pull door handle -1- off door in -direction of arrow-.
- Insert lock cylinder housing -2- into door handle bracket -3- at a right-angle.
- Screw bolts -5- and -6- into door handle bracket.





## Note

*During installation, lock cylinder housing -2- must be pressed against outer door panel.*

- It is essential that the function then be checked with the door open.

## Specified torques

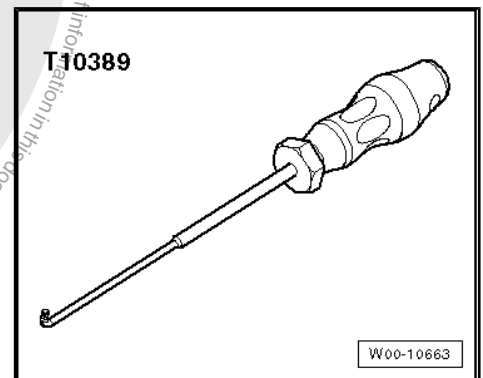
Component	Specified torques
Lock cylinder housing bolts	2.5 Nm

## 2.13 Removing and installing housing (without lock cylinder)

For vehicles with central locking

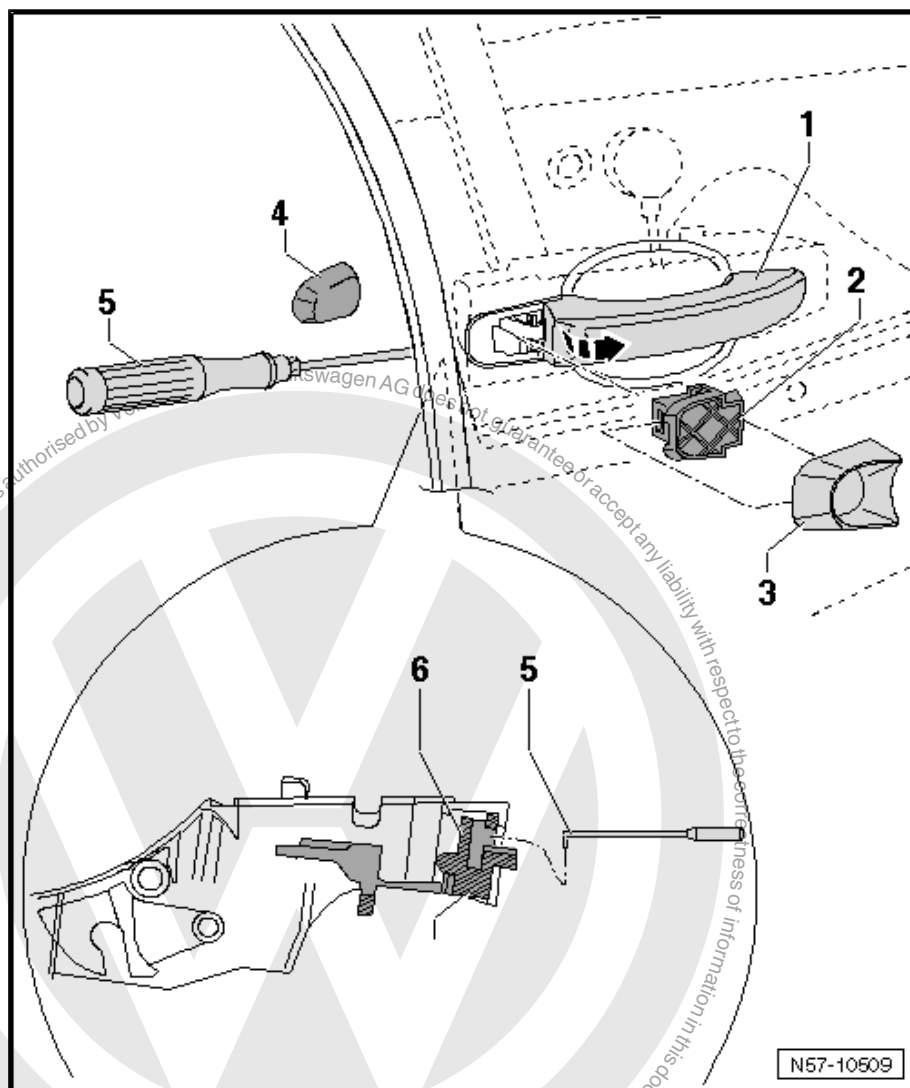
### Special tools and workshop equipment required

- ◆ Assembly tool -T10389-



## Removing

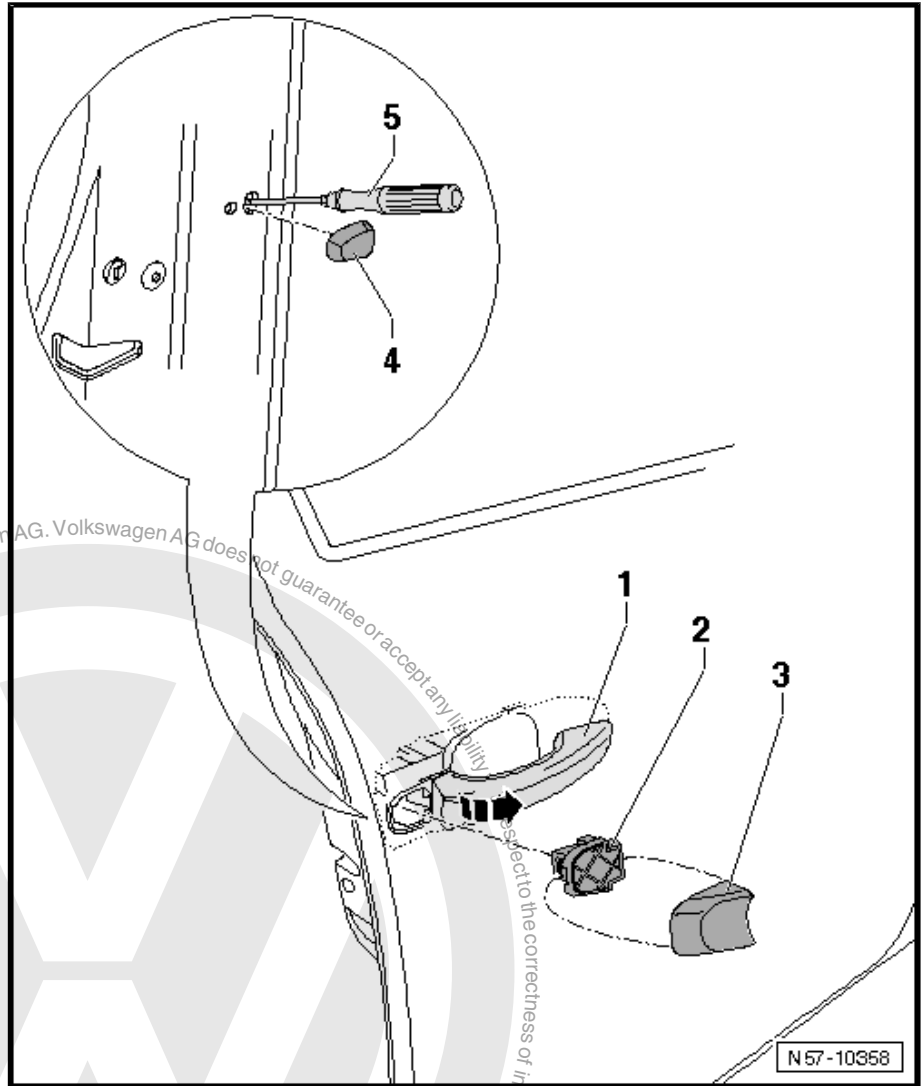




- Prise plug -4- out of opening.
- Unclip cover cap -3- from housing -2-.
- Insert assembly tool -T10389- -5- approx. 55 mm into door behind sliding link -6- of door handle bracket.
- Pull assembly tool -T10389- -5- backwards until hook of sliding link -6- disengages.
- Pull door handle -1- off door in -direction of arrow-.
- Pull housing -2- out of door handle bracket.

### Installing





- Pull door handle -1- off door in -direction of arrow-.
- Push housing -2- into door handle bracket.
- Guide screwdriver -5- against sliding link of door handle bracket.
- Press housing -2- against door.
- Press screwdriver -5- far enough in until hook of sliding link engages.
- Secure plug -4- and clip cover cap -3- onto housing -2-.

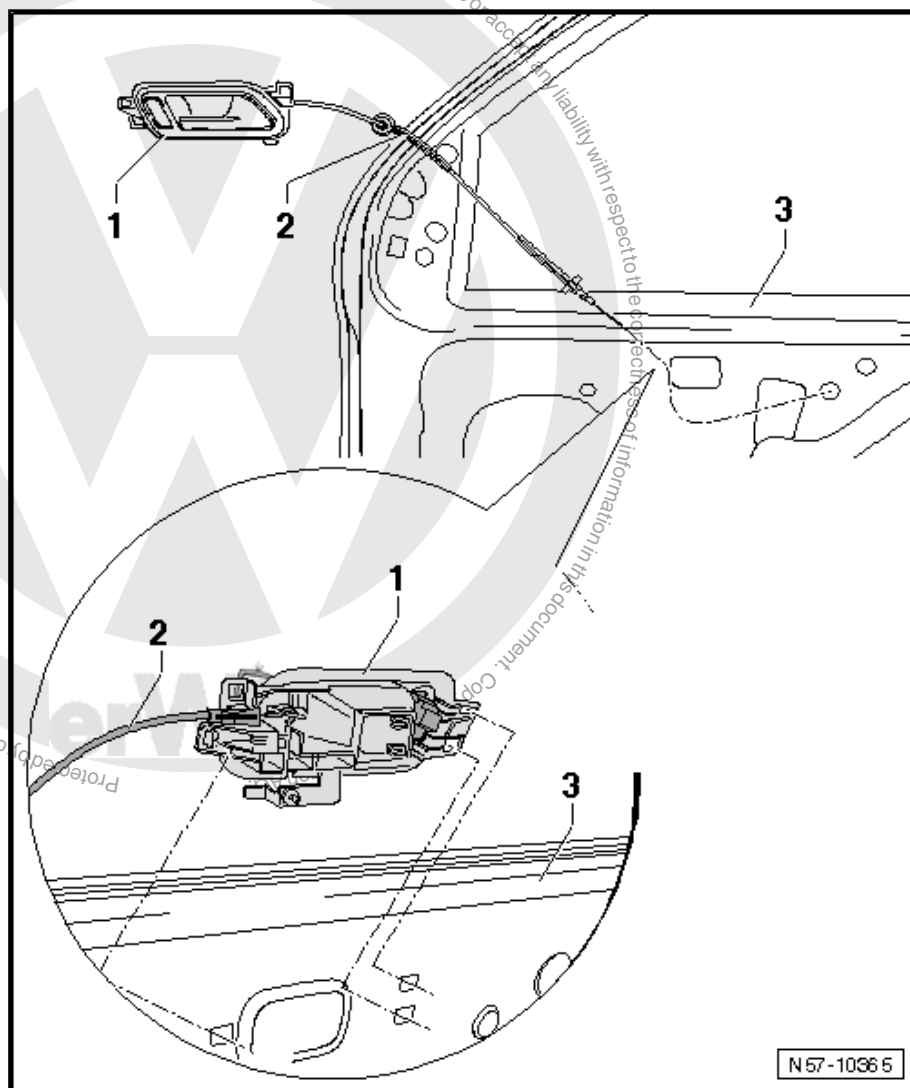
## 2.14 Removing and installing inner door handle



### Note

*Removal and installation are described only for the right inner door handle. The removal and installation of the left side are similar.*





### Removing

- Removing front door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim .
- Pull locking lever out of hole in inside door panel.
- Push inner door handle -1- out of clip in door -3-.
- Remove inside door film of front door ⇒ [page 348](#) .
- Unclip Bowden cable out of door lock ⇒ [page 98](#) .
- Remove inner door handle -1- from door -3-.

### Driver side only

- Detach connector from button for inner door lock ⇒ Electrical system; Rep. gr. 96 ; Removing and installing button for inner door lock
- Unclip Bowden cable -2- from inner door handle -1-.

### Installing

Install in reverse order of removal.

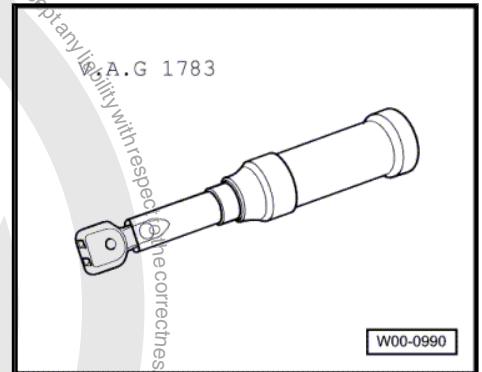




## 2.15 Removing and installing door handle bracket

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-

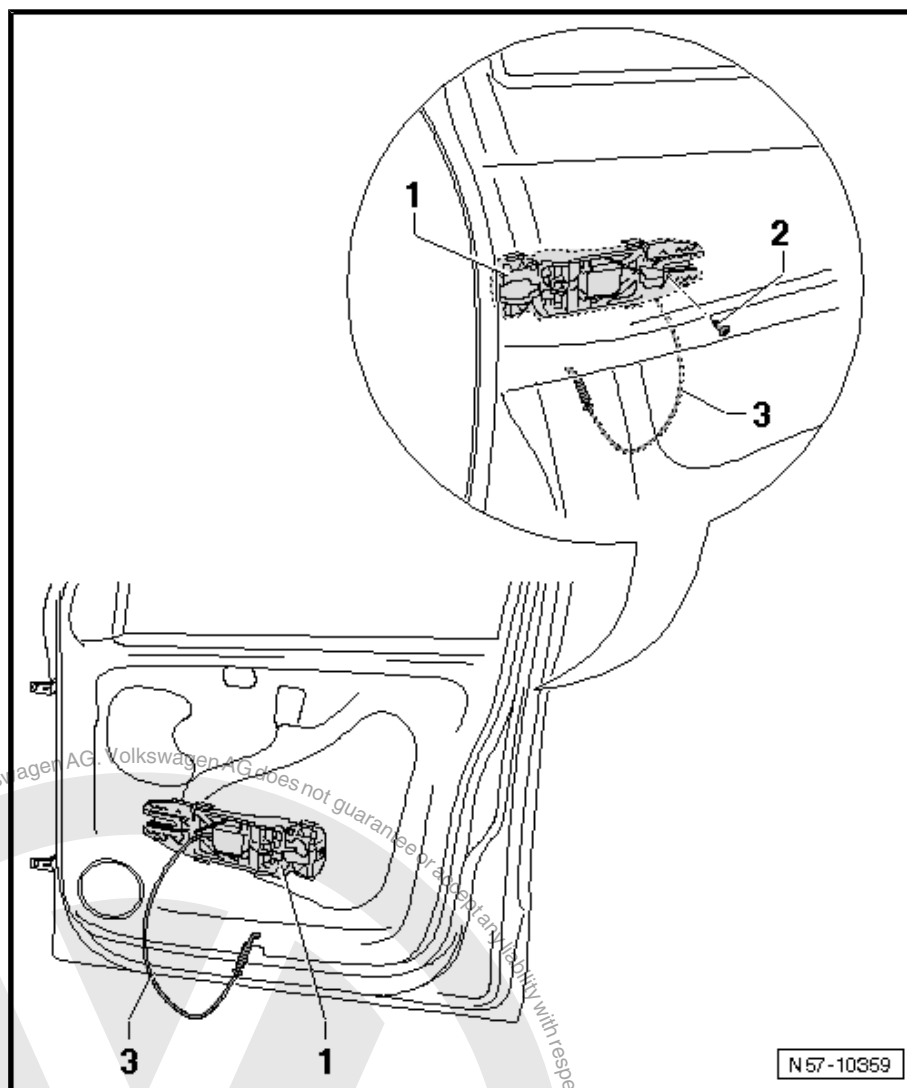


### Note

*Removal and installation are described only for the right door handle bracket. The removal and installation of the left door handle bracket is similar.*

### Removing





- Removing front door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim .
- Remove inside door film of front door ⇒ [page 348](#) .
- Remove lock cylinder ⇒ [page 109](#) or remove housing ⇒ [page 111](#) .
- Remove door handle ⇒ [page 105](#) .
- Remove bolt -2-.
- Remove door handle bracket -1- from door.
- Unclip Bowden cable -3- from door lock.

#### Installing

Installation is carried out in reverse order. When doing this, observe the following:

#### Specified torques

Component	Specified torques
Bearing bracket bolt	2.0 Nm





## 2.16 Removing and installing striker



Note

*Removal and installation are described only for the left striker.  
The removal and installation of the right striker is similar.*

### Removing

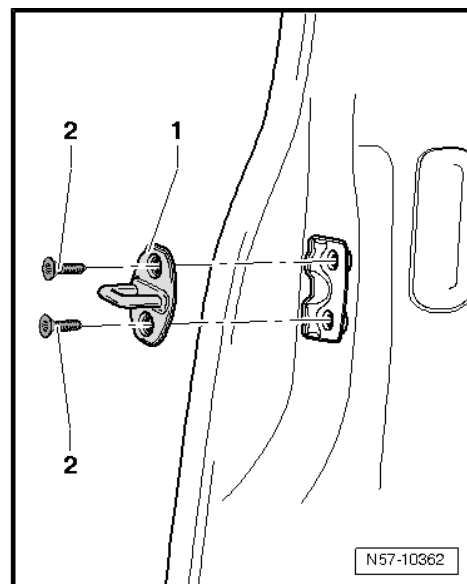
- Unscrew bolt -2- and remove striker -1-.

### Installing

- Place striker -1- on B-pillar and tighten bolts -2-.
- Adjusting striker pin ⇒ [page 88](#) .

### Specified torques

Component	Specified torques
Striker	20 Nm



## 2.17 Removing and installing window slot outer seal

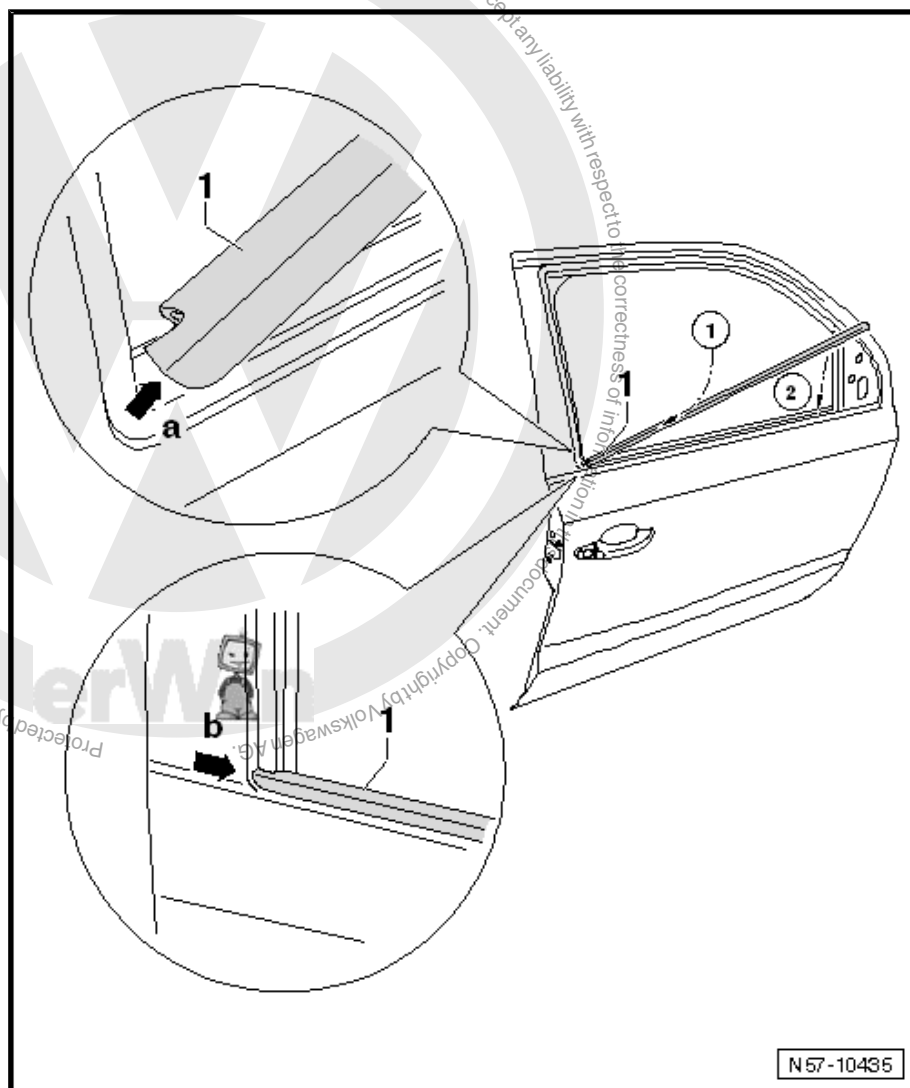


Note

*The removal and installation sequence is only for the window slot outer seal on the right. Removal and installation of the window slot outer seal on the left are analogous.*

### Removing





- Remove exterior mirror ➤ [page 300](#) .



#### Note

*Do not bend window slot seal -1- when removing.*

- Pull window slot outer seal -1- evenly upwards -arrows- off flange.

#### Installing

Installation is carried out in reverse order. When doing this, observe the following:



#### Note

- ♦ *Do not bend window slot seal -1- when installing.*
- ♦ *It is permissible to apply grease and silicone-free substances to facilitate installation.*
- ♦ *Adhere to specified installation sequence -1- to -2-.*
- Position window slot outer seal -1- at an angle -arrow a- and evenly press onto flange firmly by hand.





After installation, the window slot outer seal -1- must be seated flush -arrow b-.

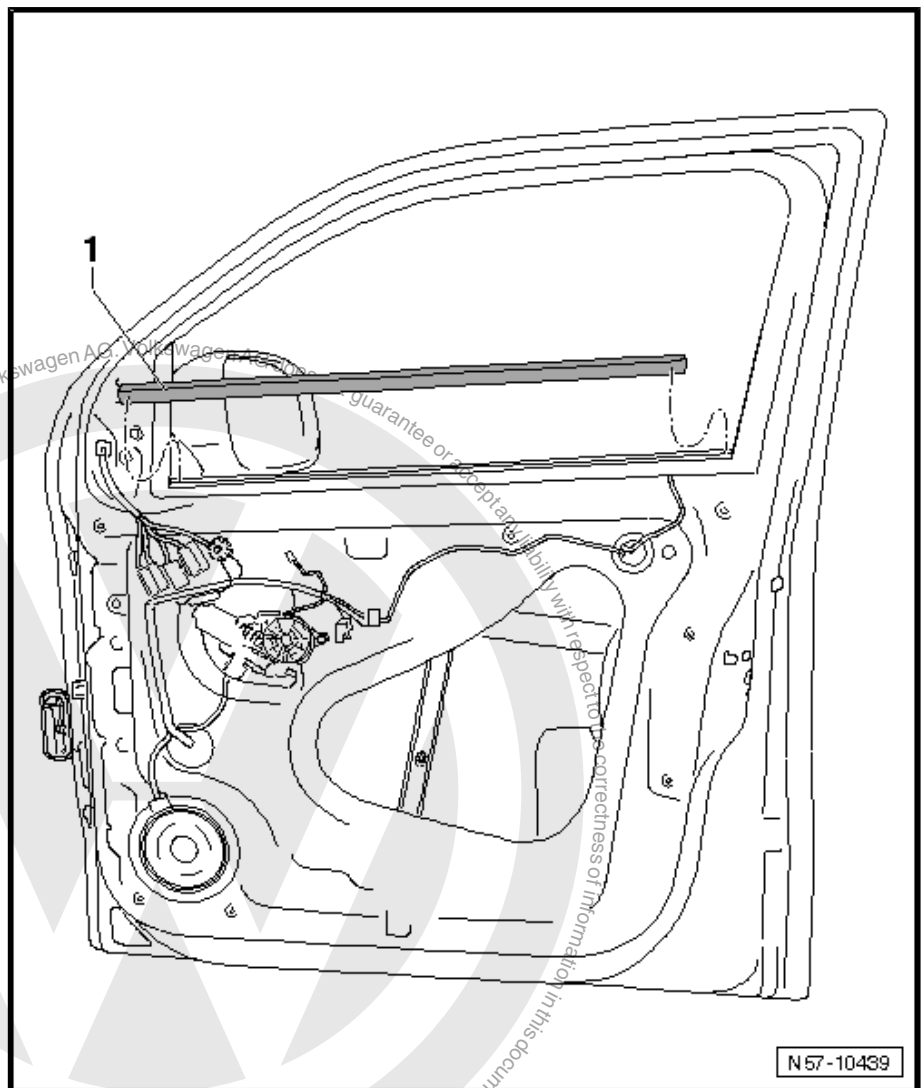
## 2.18 Removing and installing window slot inner seal

### Removing



#### Note

*Removal and installation are described only for the window slot inner seal on the right. Removal and installation of the window slot inner seal on the left are analogous.*



- Remove front door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Trims, insulation; Door trims .
- Pull window slot outer seal -1- evenly upwards off flange.

Take care not to bend window slot inner seal.



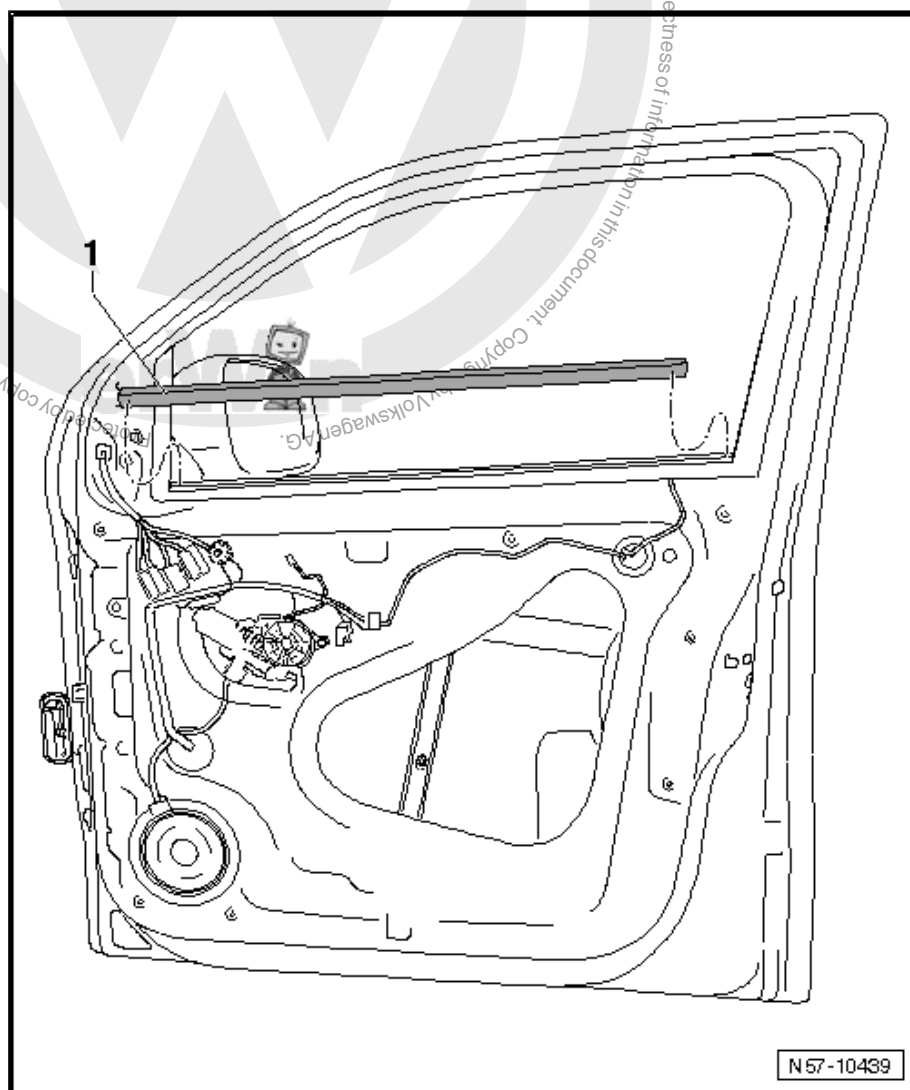
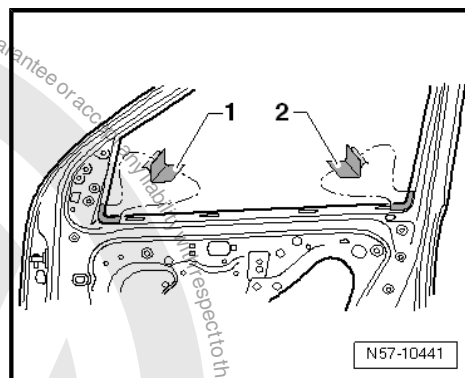


## Installing

### Only models with dust package

Bond front foam strip -1- and rear foam strip -2-.

Remove protective film before installation.



Installation is carried out in reverse order. When doing this, observe the following

- First, position window slot inner seal -1- on right window frame and then evenly press onto the flange firmly by hand

After installation, the window slot inner seal -1- must be seated flush.



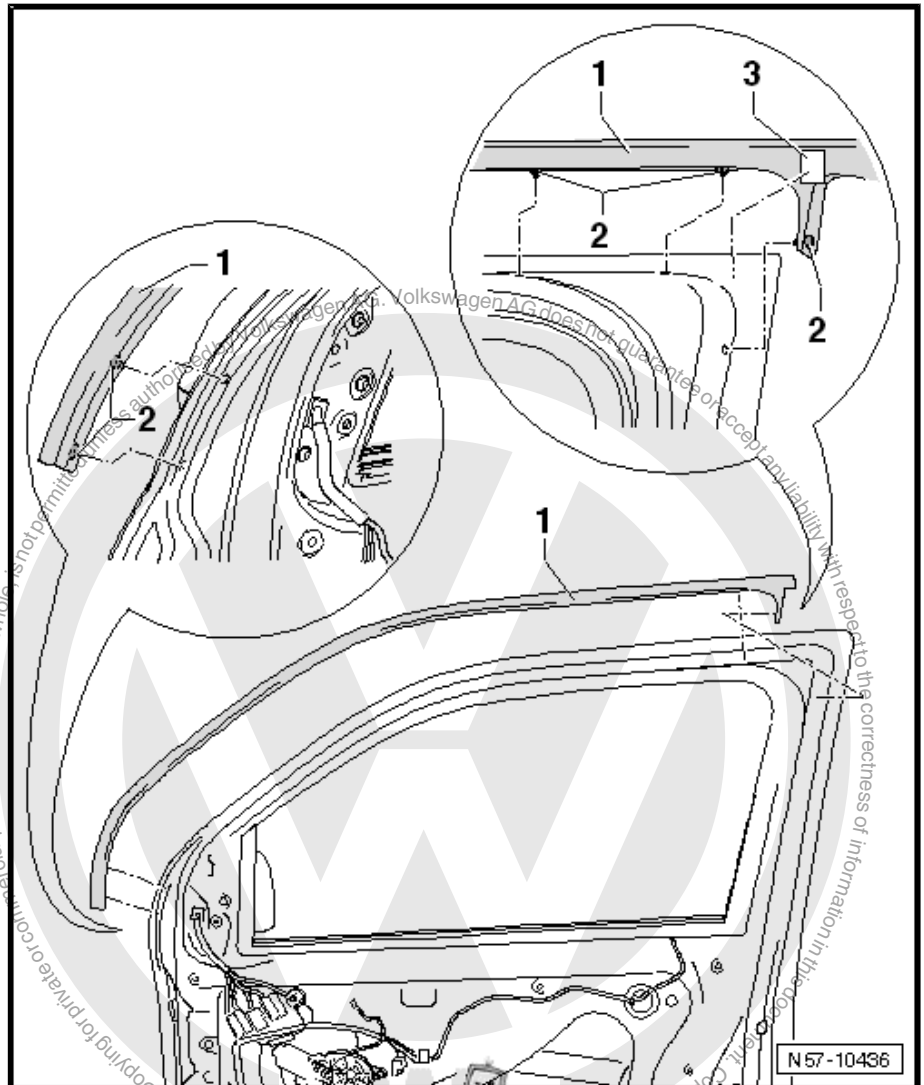


## 2.19 Removing and installing top door seal



### Note

*Removal and installation are described only for the top right seal.  
Removal and installation of the top left seal is analogous.*



### Removing

- Pull top door seal -1- off door complete with the clips -2-.



### Note

*When pulling off top seal -1-, bear in mind the adhesive strip -3-.*





## Installing



### Note

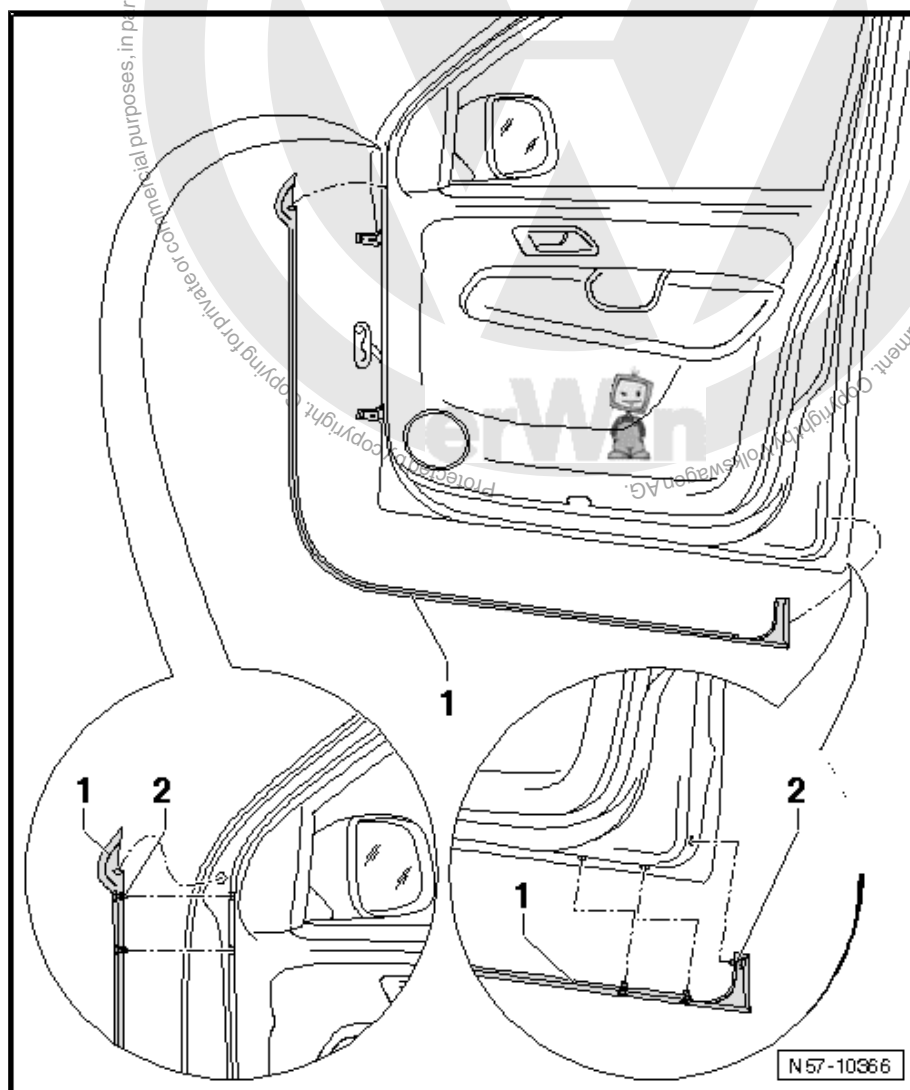
- ◆ Check clips -2- for damage and renew if necessary.
- ◆ The bonding area for adhesive strips -3- must be dry and clean.
- Pull protective paper off adhesive strips -3- and press top door seal -1- together with clips -2- onto the door.

## 2.20 Removing and installing bottom door seal



### Note

Removal and installation are described only for the bottom right seal. Removal and installation of the bottom left seal is analogous.







## Removing

- Pull bottom door seal -1- off door -3- complete with the clips -2-.

## Installing



### Note

Check clips -2- for damage and renew if necessary.

- Push bottom seal -1- with clips -2- onto door.

## 2.21 Assembly overview - impact rail of front door

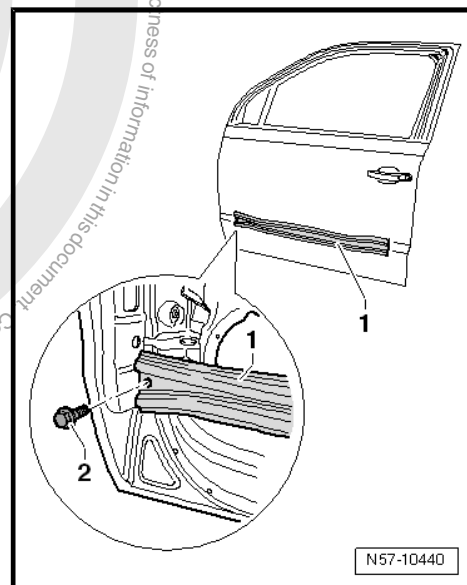


### Note

The assembly overview is only for the right side. The left side is analogous.

### Specified torques

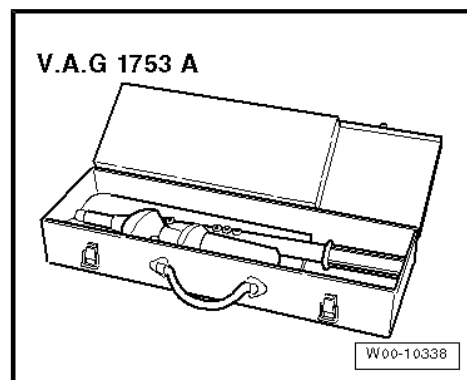
Component	Specified torques
Impact rail	30 Nm



## 2.22 Removing and installing loudspeaker in front door

### Special tools and workshop equipment required

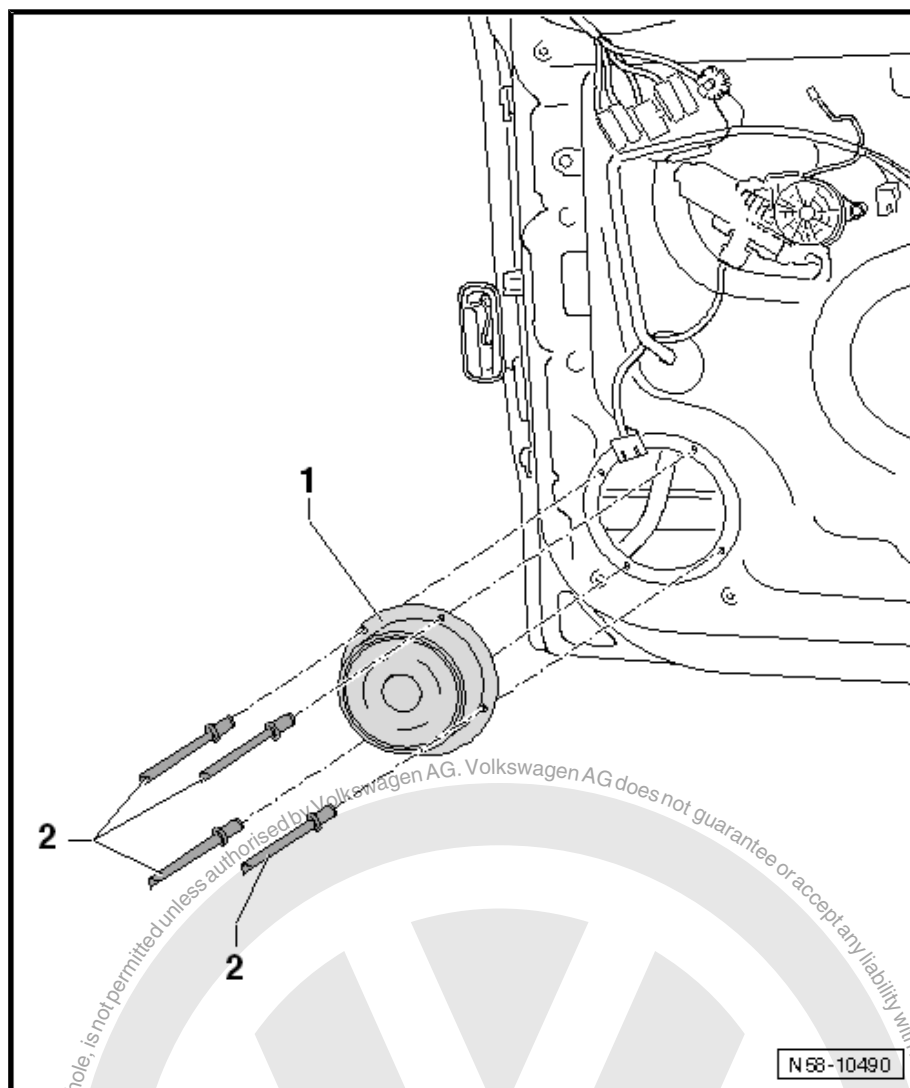
- ◆ Special pop rivet pliers -V.A.G 1753A-



### Note

Removal and installation are described only for the right side. Removal and installation on the left side are analogous.





- Removing front door trim ⇒ General body repairs, interior;  
Rep. gr. 70 ; Door trim .

#### Removing

- Drill out pop rivet -2- using suitably sized drill bit.
- Remove loudspeaker -1- from front door and detach electrical connector.

#### Installing

- Attach electrical connector to door loudspeaker -1-.
- Insert loudspeaker -1- into front door and pull in pop rivets -2- with the pop rivet pliers -VAS 5072- .





## 58 – Rear doors, door components







## 1 Door

⇒ "1.1 Assembly overview - door hinges on B-pillar", page 126

⇒ "1.2 Assembly overview - door hinge on door", page 127

⇒ "1.3 Removing and installing door", page 128

⇒ "1.4 Adjusting striker", page 129

⇒ "1.5 Removing and installing door hinge on B-pillar",  
page 130

⇒ "1.6 Removing and installing door hinge on door", page 131

⇒ "1.7 Removing and installing door arrester", page 132

⇒ "1.8 Removing and installing door inner seal", page 133

⇒ "1.9 Removing and installing door outer seal", page 134

### 1.1 Assembly overview - door hinges on B-pillar



#### Note

The right side is shown. The left side is analogous.

#### 1 - Door

- ☐ Removing and installing  
⇒ [page 128](#)
- ☐ Adjusting:

#### 2 - Door hinge

- ☐ The hinge is split and  
bolted to the B-pillar.



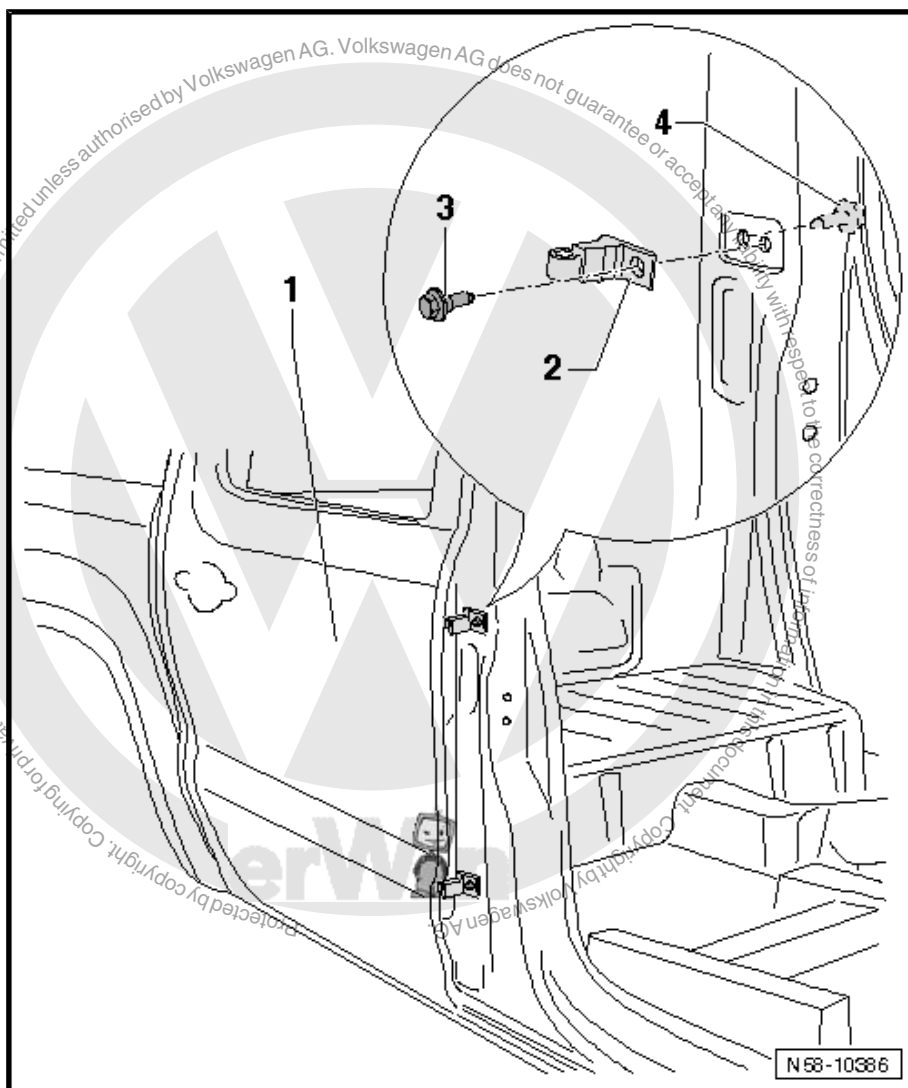
#### Note

#### 3 - Bolt

- ☐ Specified torques: 30  
Nm

#### 4 - Bolt

- ☐ Installed from inside ve-  
hicle.
- ☐ Specified torques: 30  
Nm







## 1.2 Assembly overview - door hinge on door



Note

The assembly overview is for the right side. The left side is similar.

### 1 - Front door

- ☐ Removing and installing  
⇒ [page 128](#)
- ☐ Adjusting ⇒ [page 129](#)

### 2 - Door upper hinge

- ☐ Hinge is split and bolted to door.

### 3 - Bolt

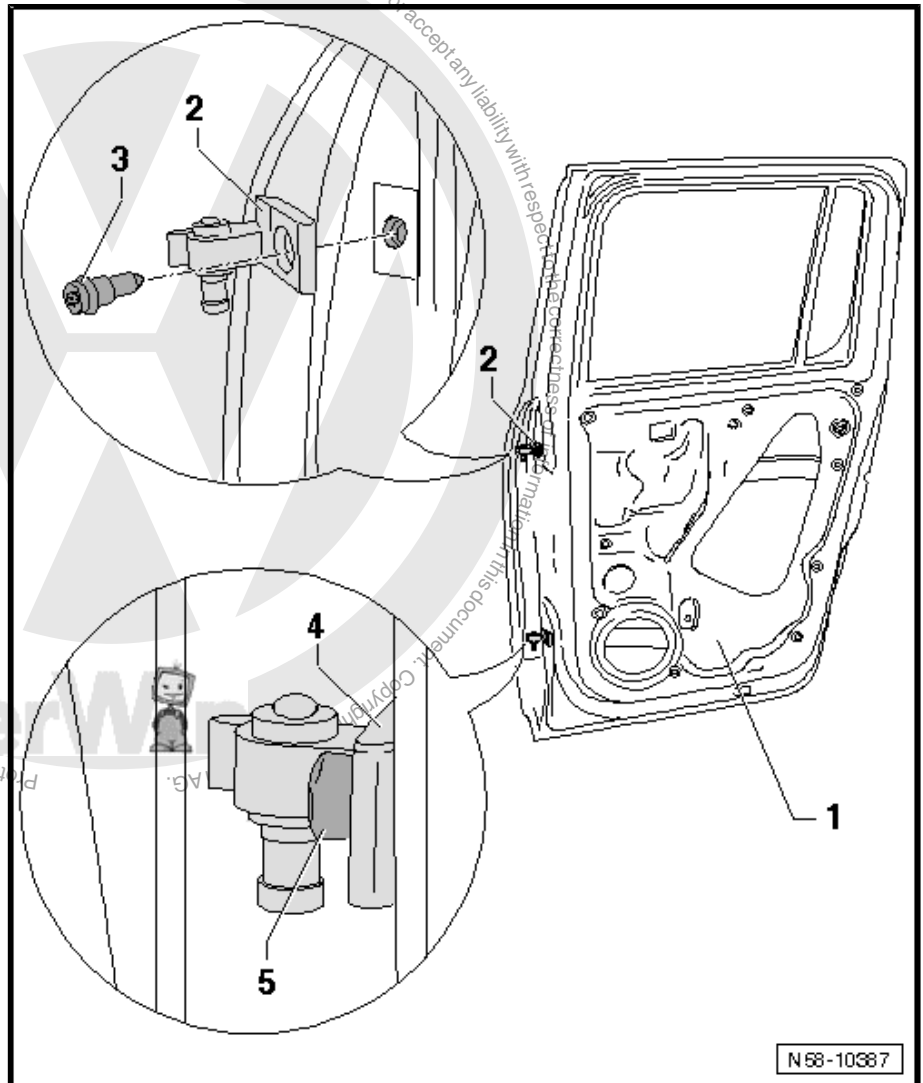
- ☐ Specified torques: 30 Nm

### 4 - Door lower hinge

- ☐ Hinge is split and bolted to door.

### 5 - Bolt

- ☐ Specified torques: 30 Nm





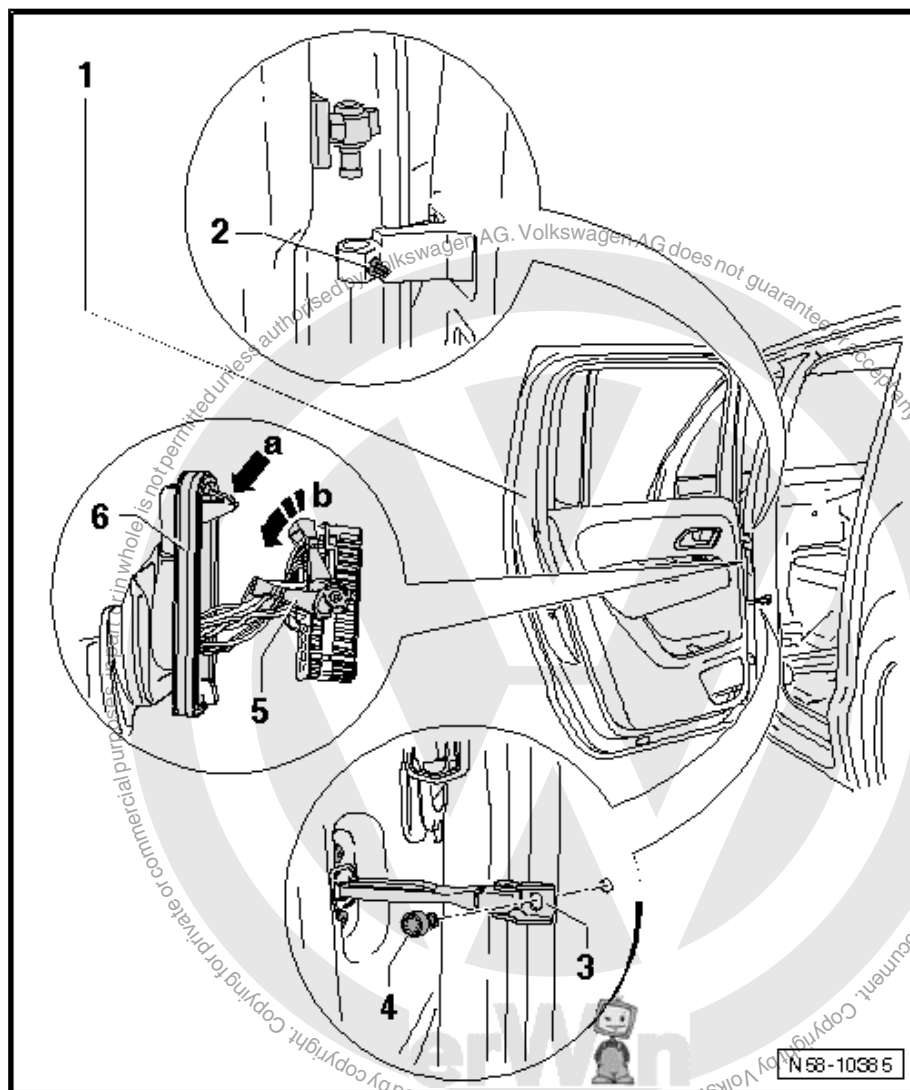


## 1.3 Removing and installing door



### Note

*The removal and installation sequence is for the left door. The removal and installation of the right door is similar.*



### Removing

- Release bellows -5- by pressing catch -arrow a- and pull off B-pillar.
- Swing locking lever -6- downwards -arrow b- and disconnect electrical connector from coupling station.
- Unscrew bolts -2- on top and bottom hinges.
- Unscrew bolts -4- for door arrester -3-.
- Lift door -1- upwards out of hinges.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:





- Observe front door gaps ⇒ Body Repairs; Rep. gr. 00 ; Technical data; Body panel gaps/shut lines; Body - front .

**i Note**

*Specified torque for bolt -4- differs according to strength rating.*

**Specified torques**

Component	Specified torques
Bolt -4- on door arrester at 8.8	20 Nm
Bolt -4- on door arrester at 10.9	33 Nm
Hinge bolt	23 Nm

## 1.4 Adjusting striker

**i Note**

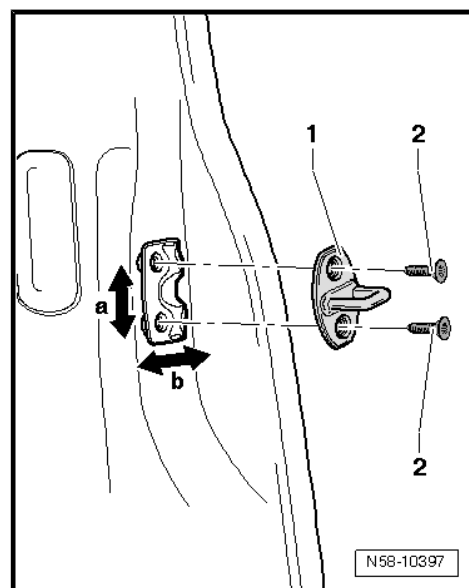
- ◆ *Threaded plate of striker pin is secured in pillar using a method which differs from the previous method.*
- ◆ *Bow outside of threaded plate is welded firmly to pillar. Webs to threaded plate are plastically deformable.*
- ◆ *Increased forces must be applied so that striker pin can be adjusted with bolts loosened.*
- ◆ *The door must lock fully when closing without any additional force being required and must not have any play.*
- ◆ *The door must not be pushed up or down due to striker pin adjustment.*

The following can be adjusted at the striker pin:

- When the front door does not align with the rear door or the D-pillar.
- Loosen striker -1- by loosening bolts -2- in C-pillar.
- Adjust the striker -1- with light taps (plastic hammer) so that the rear door is flush with the C-pillar when shut (wind noise).
- Tighten bolts -2- of striker -1-.

**Specified torques**

Component	Specified torques
Striker	20 Nm





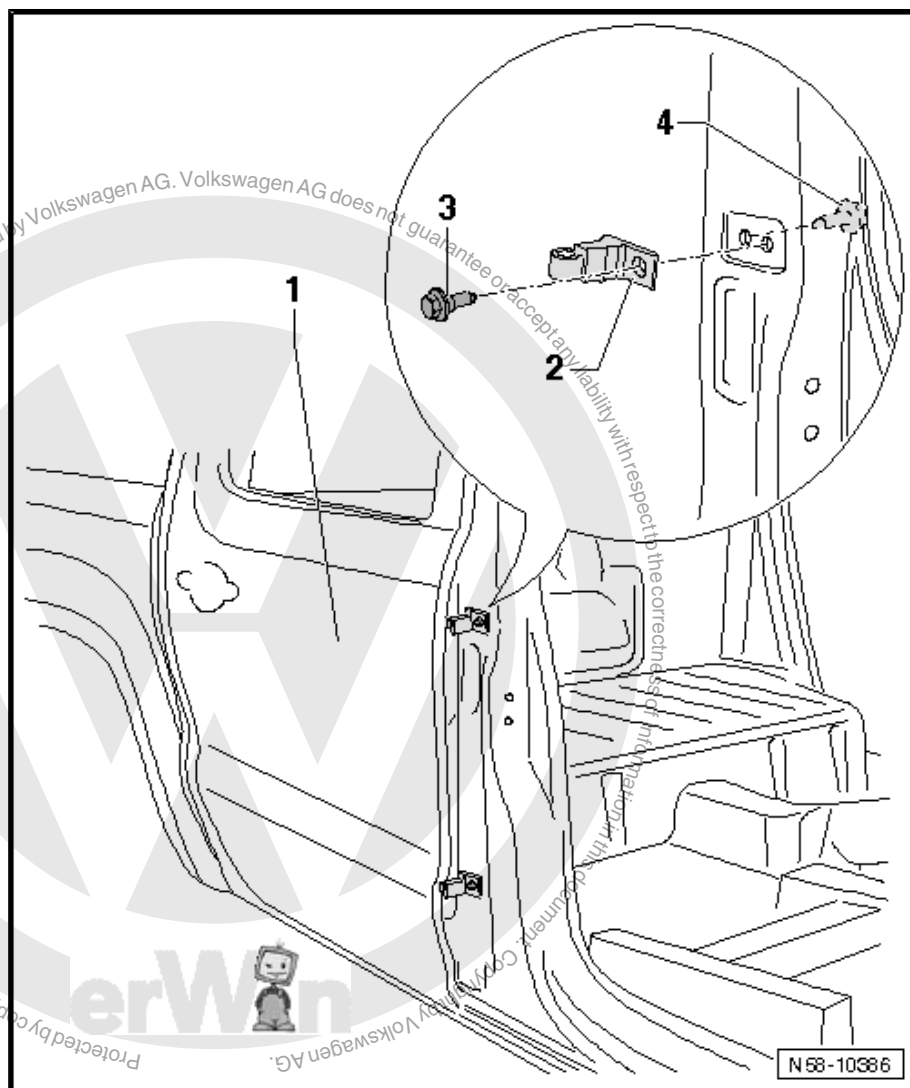


## 1.5 Removing and installing door hinge on B-pillar



### Note

*The removal and installation procedure is for the right side. The removal and installation of the left side is similar.*



### Removing

- Remove B-pillar top trim ⇒ General body repairs, interior; Rep. gr. 70 ; Pillar and side panel trim .
- Remove B-pillar bottom trim ⇒ General body repairs, interior; Rep. gr. 70 ; Pillar and side panel trim .
- Remove rear door ⇒ [page 128](#) .
- Remove bolts -3- and -4-

### Installing

Installation is carried out in reverse order. When doing this, observe the following:

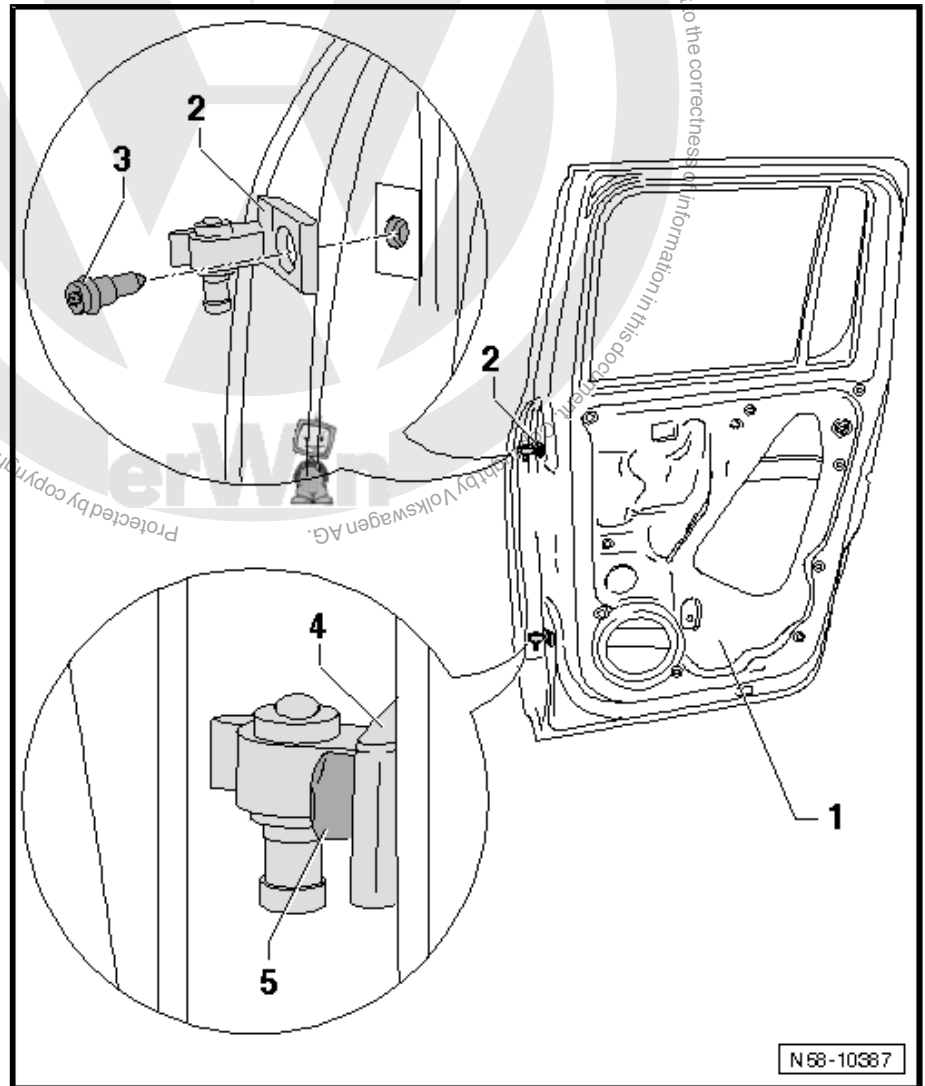




## Specified torques

- ◆ ⇒ ["1.1 Assembly overview - door hinges on B-pillar", page 126](#).

## 1.6 Removing and installing door hinge on door



### Removing

- Remove bolts -3- or -5-.
- Remove upper door hinge -2- or lower door hinge -4- from rear door -1-.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:

### Specified torques

- ◆ ⇒ ["1.2 Assembly overview - door hinge on door", page 127](#).



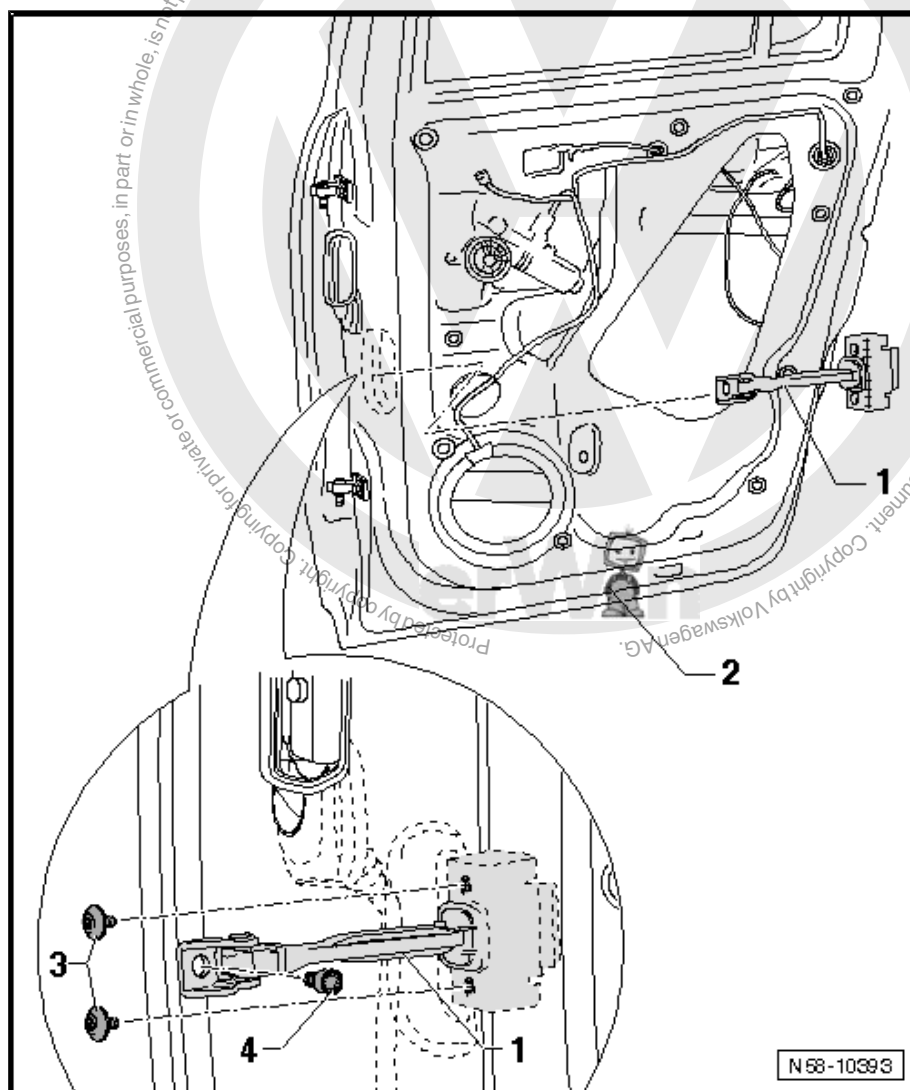


## 1.7 Removing and installing door arrester



### Note

*The removal and installation sequence is only for the right door arrester. Removal and installation of the left door arrester is similar.*



### Removing

- Remove rear door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim .
- Remove inner film of rear door ⇒ [page 349](#) .
- Unscrew bolt -4- on B-pillar.
- Remove bolts -3- and remove door arrester -1- through opening in door.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:





## Specified torques

Component	Specified torques
Door arrester bolt -4-	20 Nm
Door arrester bolt -4- from 05.2012	33 Nm
Door arrester bolts -3-	9.0 Nm

## 1.8 Removing and installing door inner seal

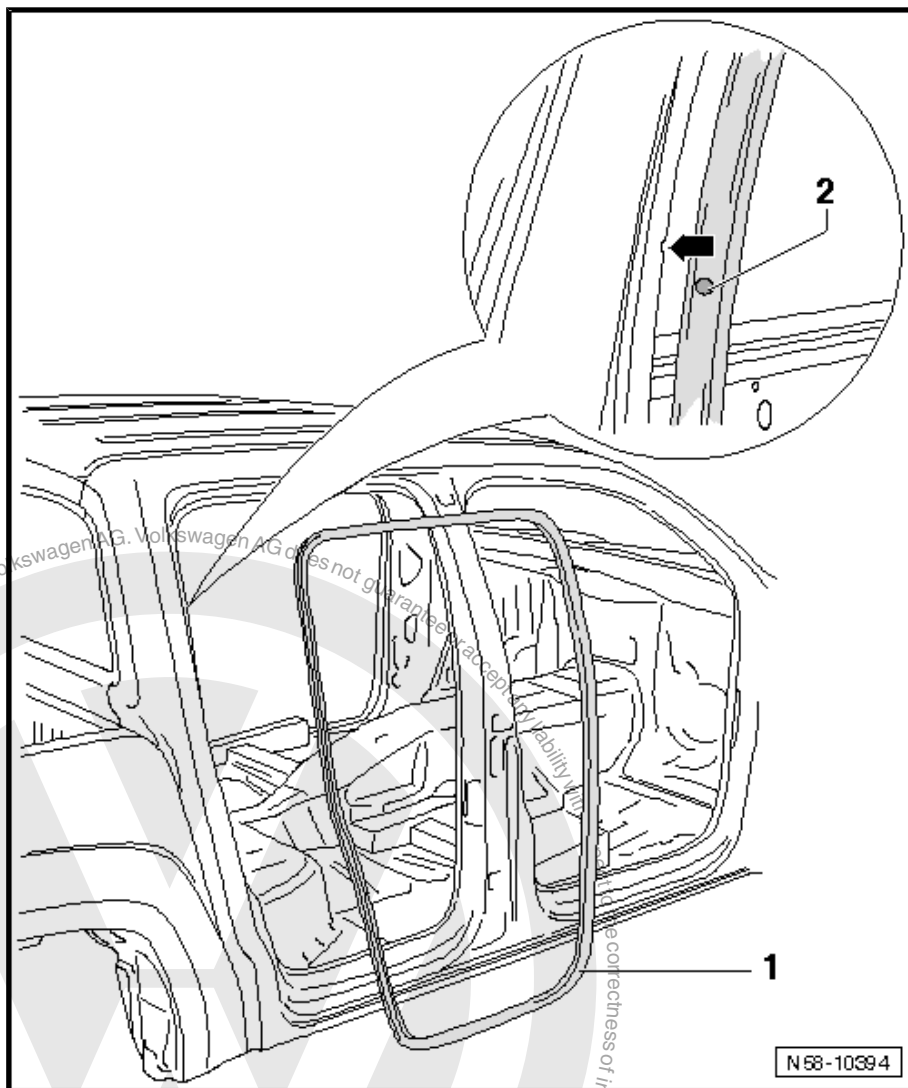
During production, a sealant is applied to the door inner seals, which are then placed on the door flange and rolled on.



### Note

- ◆ When removing the seal, the sealant is distributed across the inside of the seal.
- ◆ The edges are bent up slightly.
- ◆ If the seal is then refitted, sealing and firm seating are no longer guaranteed.
- ◆ Therefore each seal which is removed completely should be replaced by a so-called "tap-on" seal.
- ◆ If a seal has been partially removed, squeeze sides of seal together before refitting.
- ◆ The removal and installation sequence is only for the right door inner seal. The removal and installation of the left door inner seal is similar.





### Removing

- Remove necessary pillar trims ⇒ General body repairs, interior; Rep. gr. 70 ; Pillar trim .
- Remove sill panel strip ⇒ General body repairs, interior; Rep. gr. 68 ; Interior equipment; Sill panel strips .
- Pull door inner seal -1- off body flange.

### Installing

- Align door inner seal -1- with mark -2- on fixing point -arrow-.
- Start installing inner door seal in upper radius of door aperture.

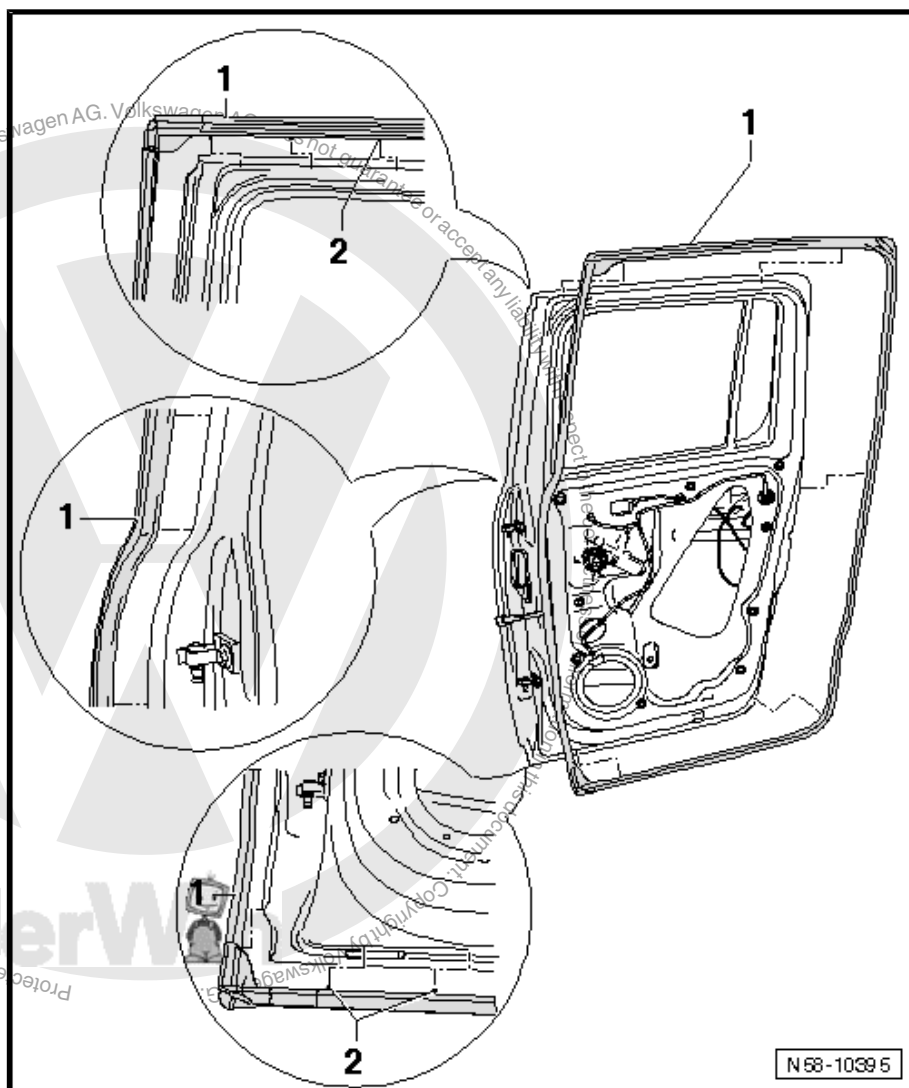
## 1.9 Removing and installing door outer seal



### Note

- ♦ *Removal and installation are described only for the right door outer seal. Removal and installation of the left door outer seal are similar.*
- ♦ *Check clips -2- for damage and renew if necessary.*





### Removing

- Pull door outer seal -1- off door -3- complete with the clips -2-.

### Installing

- Push seal -1- with clips -2- onto door.









## 2 Door components

- ⇒ ["2.1 Assembly overview - door components", page 137](#)
- ⇒ ["2.2 Assembly overview - window regulator", page 138](#)
- ⇒ ["2.3 Assembly overview - door lock", page 139](#)
- ⇒ ["2.4 Assembly overview - door lock cover", page 140](#)
- ⇒ ["2.5 Assembly overview - cap", page 141](#)
- ⇒ ["2.6 Assembly overview - window regulator motor", page 142](#)
- ⇒ ["2.7 Removing and installing window regulator motor", page 142](#)
- ⇒ ["2.8 Removing and installing window regulator", page 144](#)
- ⇒ ["2.9 Removing and installing door handle", page 146](#)
- ⇒ ["2.10 Removing and installing door lock", page 146](#)
- ⇒ ["2.11 Removing and installing housing \(without lock cylinder\)", page 148](#)
- ⇒ ["2.12 Removing and installing inner door handle", page 150](#)
- ⇒ ["2.13 Removing and installing door handle bracket", page 152](#)
- ⇒ ["2.14 Removing and installing striker", page 153](#)
- ⇒ ["2.15 Removing and installing window channel", page 153](#)
- ⇒ ["2.16 Removing and installing window slot inner seal", page 155](#)

### 2.1 Assembly overview - door components

#### 1 - Locking rod

- ☐ Clipped into door lock -2-

#### 2 - Door lock

- ☐ Removing and installing  
⇒ [page 146](#)
- ☐ Door lock cover  
⇒ [page 140](#)

#### 3 - Cover

- ☐ Emergency locking

#### 4 - Bolt

- ☐ Specified torque: 20 Nm.
- ☐ Qty. 2

#### 5 - Cable

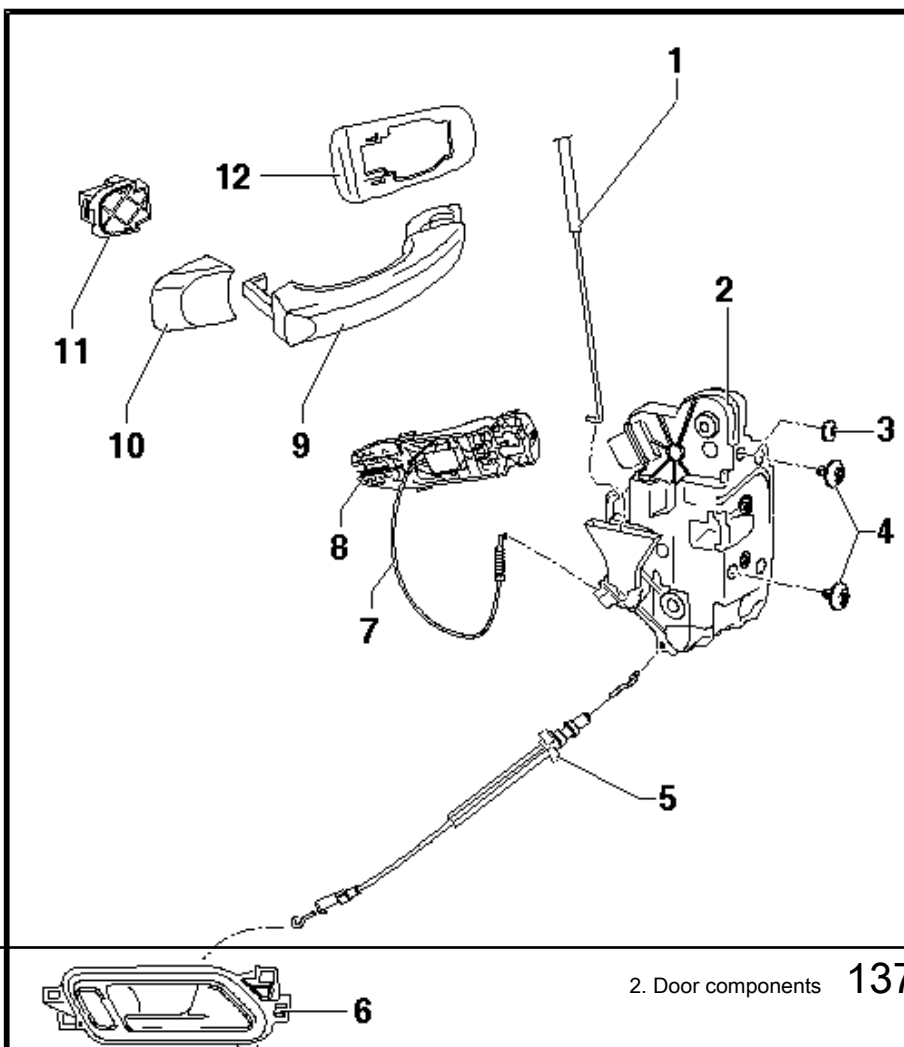
- ☐ From inner door handle -6- to door lock -2-

#### 6 - Interior door handle

- ☐ Removing and installing  
⇒ [page 150](#)

#### 7 - Cable

- ☐ From door lock to door handle bracket.







## 8 - Door handle bracket

- ☐ Removing and installing ⇒ [page 152](#)

## 9 - Door handle

- ☐ Removing and installing ⇒ [page 146](#)

## 10 - Cover

- ☐ Removing and installing without lock cylinder ⇒ [page 148](#) .

## 11 - Housing

- ☐ Without cylinder lock.
- ☐ Removing and installing ⇒ [page 148](#)

## 12 - Base

- ☐ Clipped into door

## 2.2 Assembly overview - window regulator

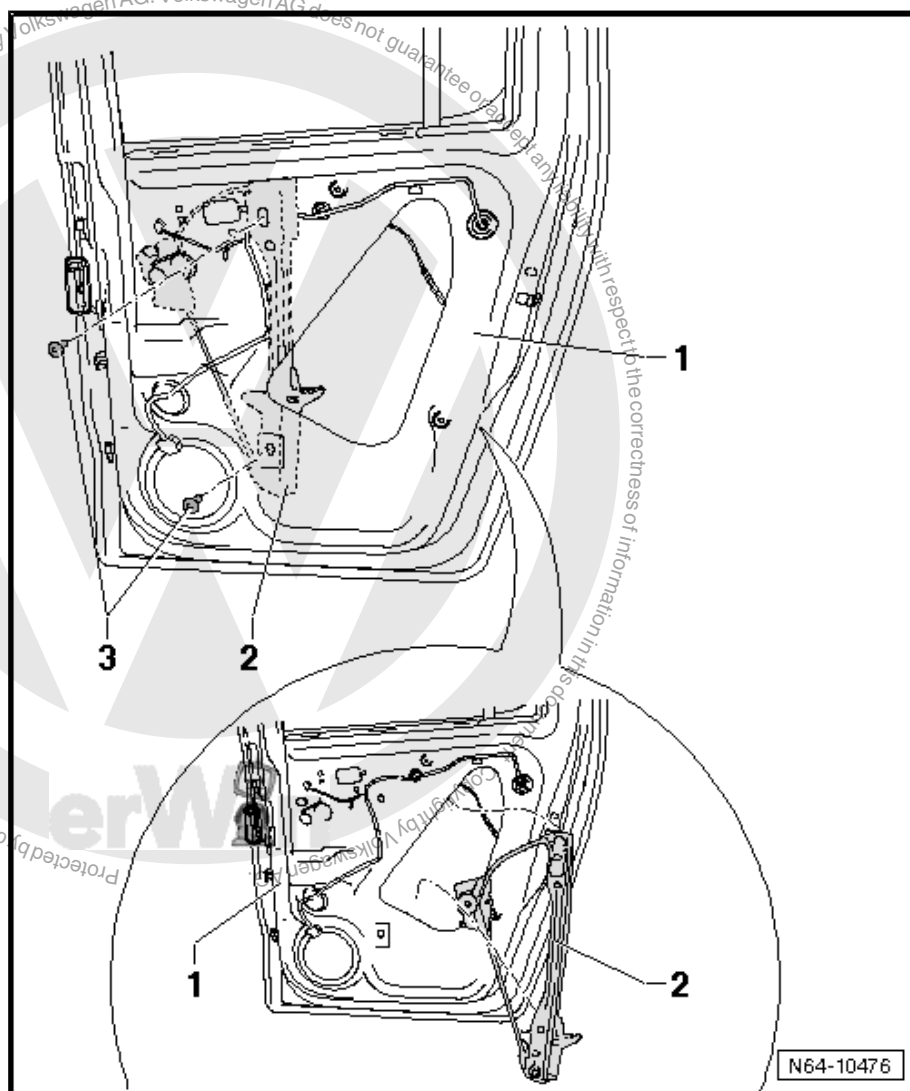
### 1 - Door

### 2 - Window regulator

- ☐ Removing and installing  
⇒ [page 144](#)

### 3 - Bolt

- ☐ Qty. 2
- ☐ Specified torque: 9 Nm







## 2.3 Assembly overview - door lock

### 1 - Door lock

- ☐ Removing and installing  
⇒ [page 146](#)

### 2 - Bowden cable

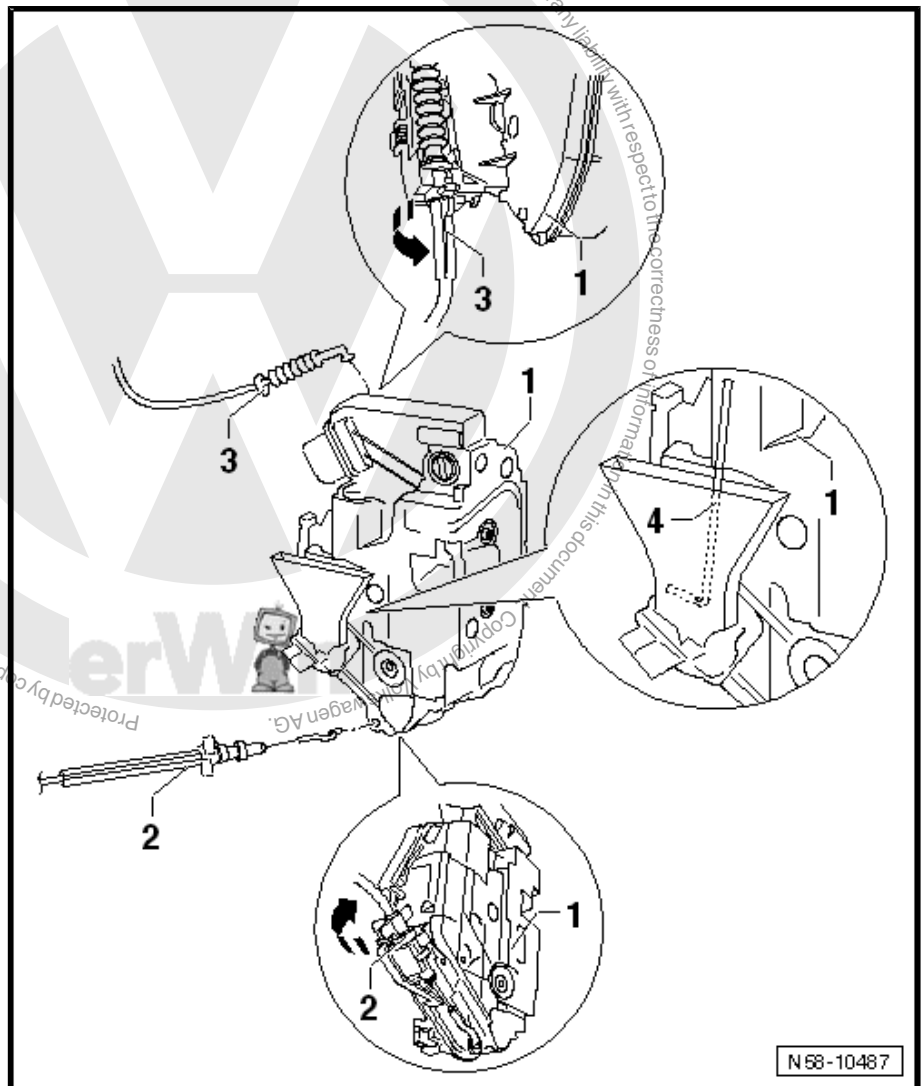
- ☐ To inner door handle  
⇒ [page 139](#)

### 3 - Bowden cable

- ☐ To door handle bracket  
⇒ [page 152](#)

### 4 - Locking rod

- ☐ For mechanical door lock
- ☐ The end of the rod must always point away from the B-pillar.

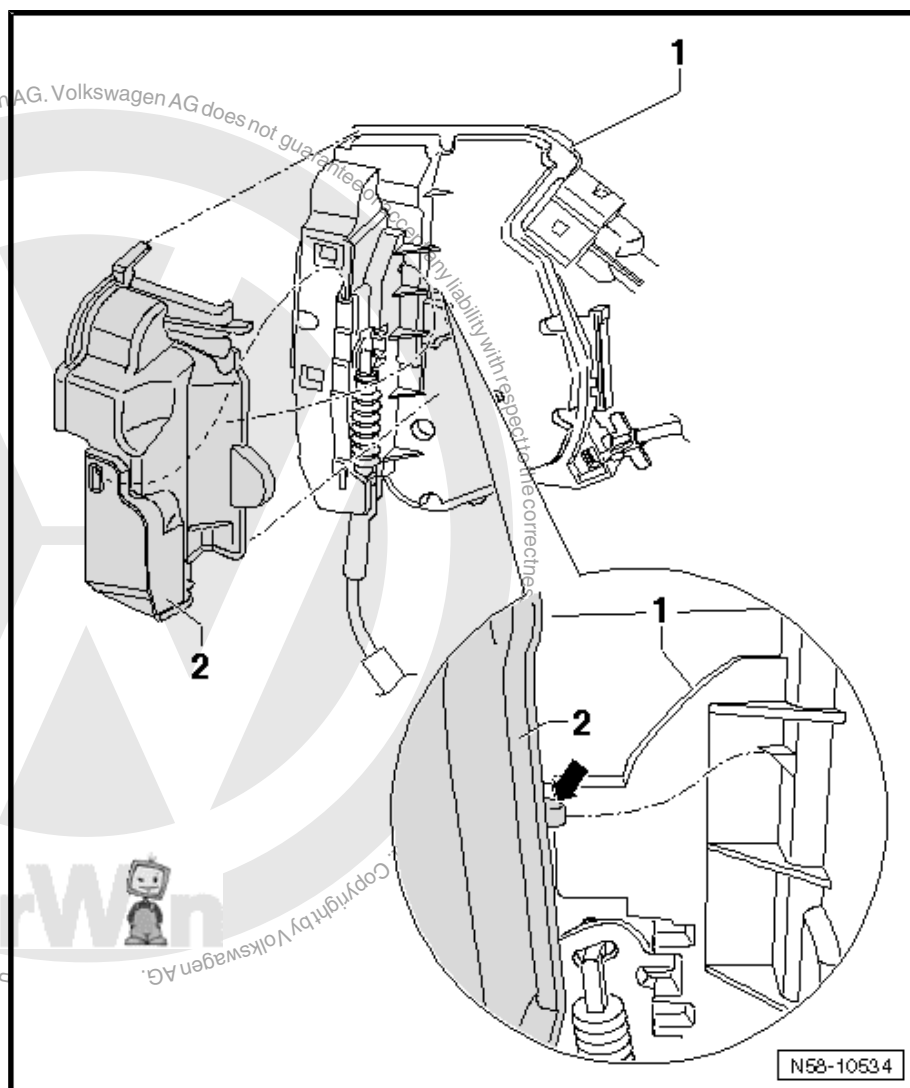


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## 2.4 Assembly overview - door lock cover



### Assembly sequence:

- Fit cover cap -2- onto door lock -1-.
- Slide cover cap -2- downwards and at the same time guide door lock -1- into U-profile.
- Lug -arrow- of cover cap -2- must be pressed down and engage audibly in door lock -1-.





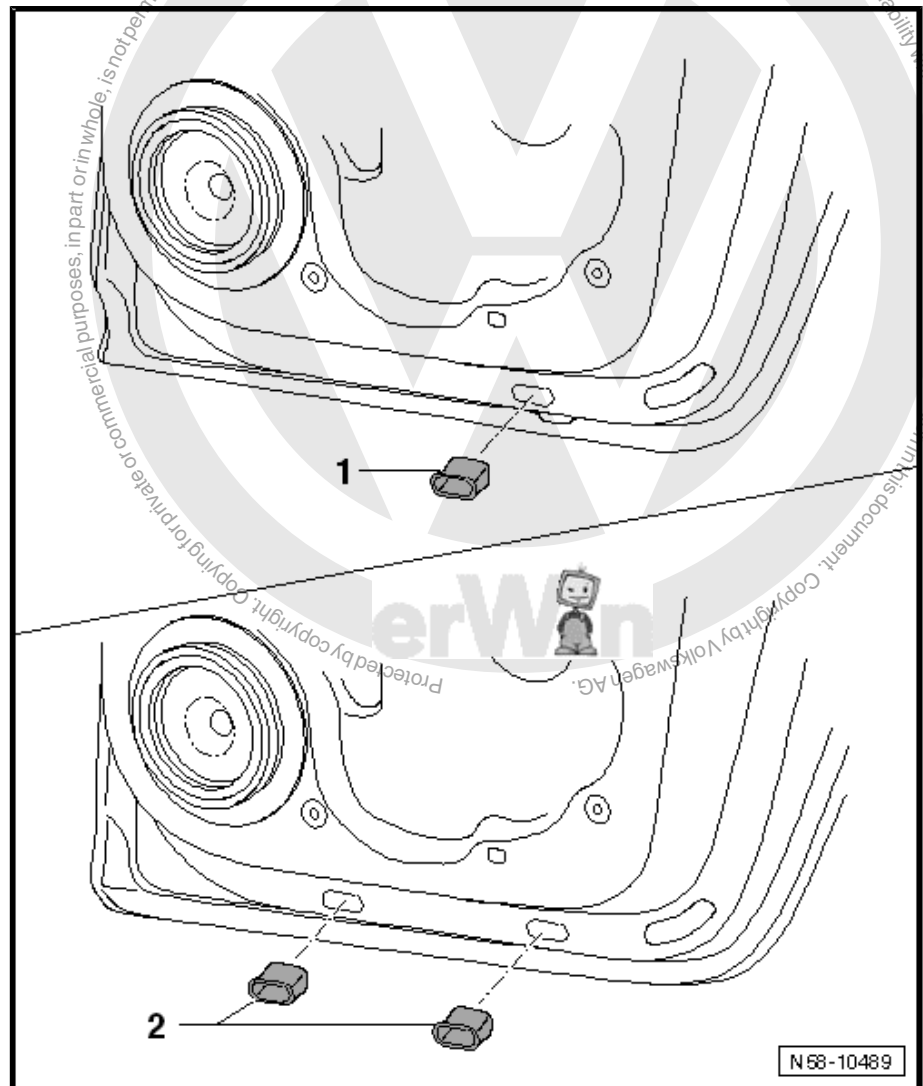
## 2.5 Assembly overview - cap

### 1 - Cap

- For vehicles without door seal

### 2 - Grommet

- For vehicles with door seal







## 2.6 Assembly overview - window regulator motor

### 1 - Window regulator motor

- ❑ Removing and installing  
⇒ [page 142](#)

### 2 - Bolt

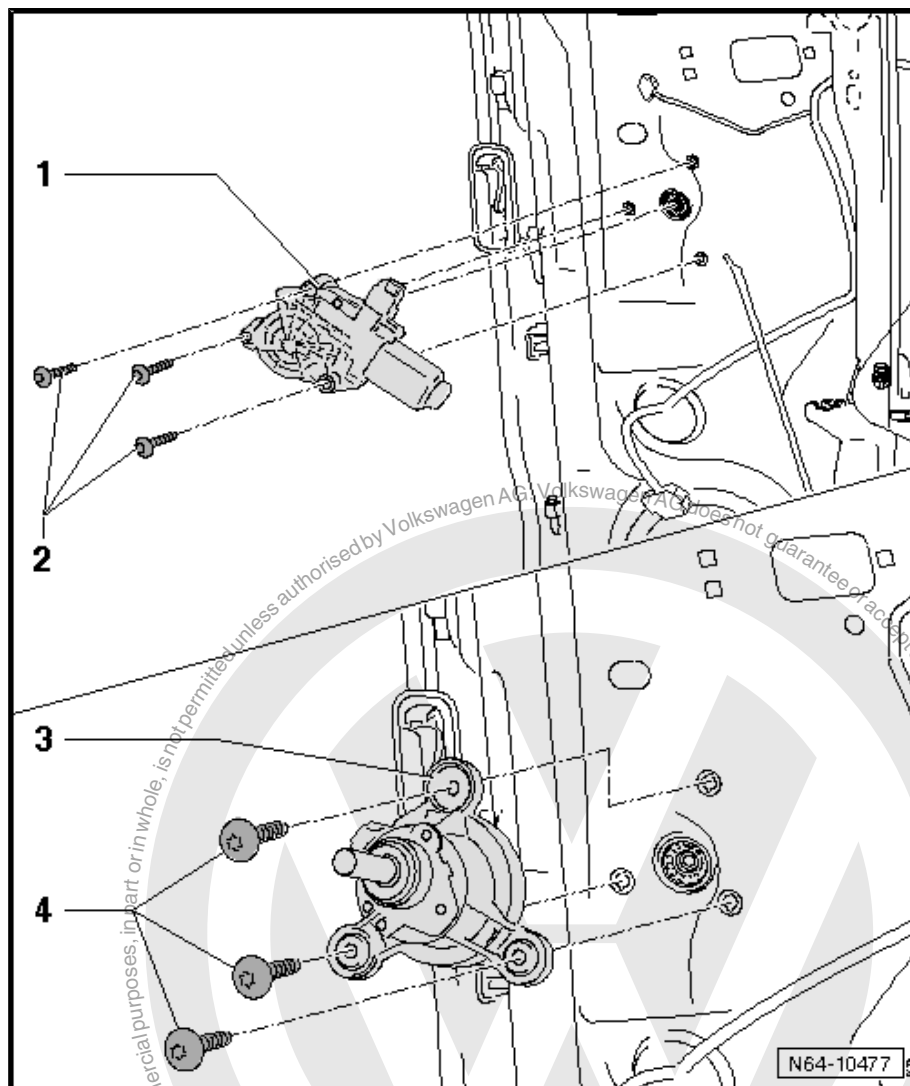
- ❑ Qty. 3
- ❑ Specified torque: 3 Nm

### 3 - Window regulator

- ❑ Manual drive unit
- ❑ Removing
- ❑ Installing

### 4 - Bolt

- ❑ Qty. 3
- ❑ Specified torque: 3 Nm



## 2.7 Removing and installing window regulator motor

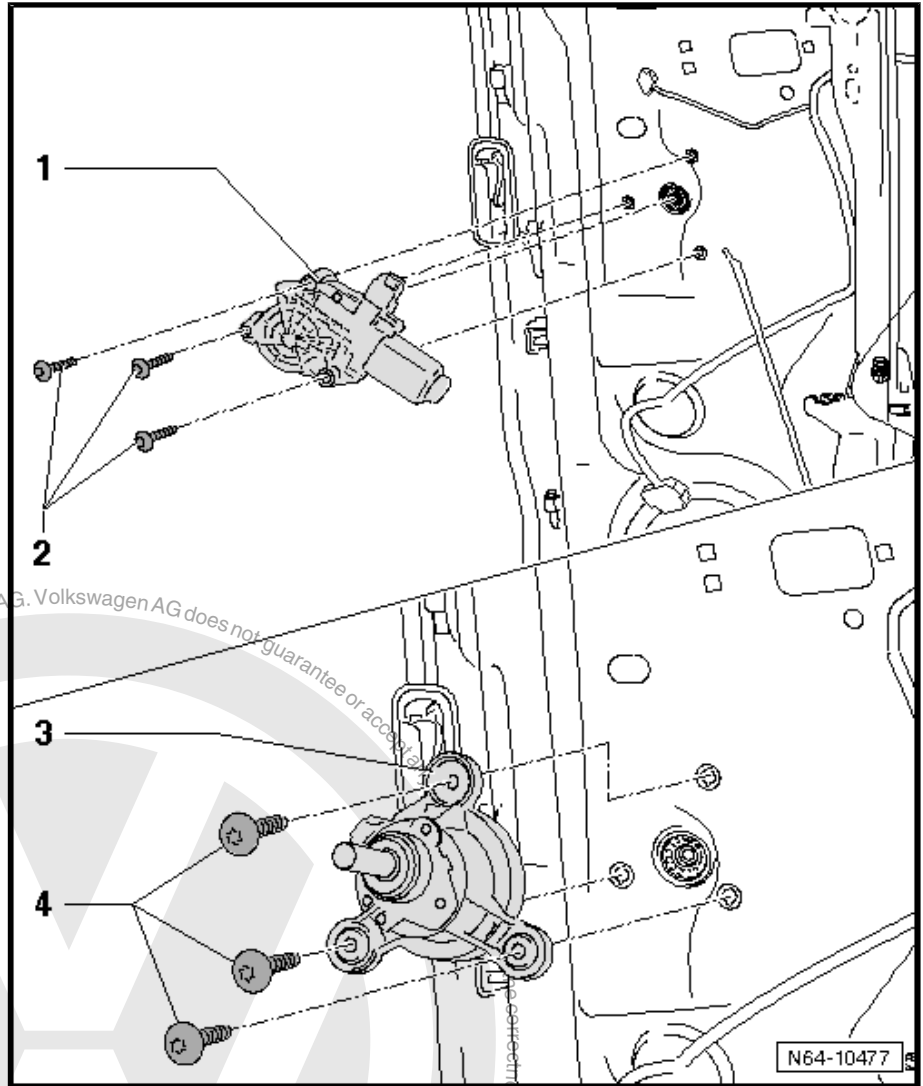
### Removing



#### Note

- ◆ Removal is described only for the right window regulator motor. Removal of left window regulator motor is similar.
- ◆ Removal of manual window regulator -3- is similar.





Removing rear door trim ⇒ General body repairs, interior;  
Rep. gr. 70 ; Door trims .

- Pull off inside door film.
- Secure door window against sliding down with adhesive tape.
- Disconnect electrical connector.
- Remove 3 bolts -2- (or bolts -4-).
- Remove window regulator motor with control unit -1- (or window regulator -3-) from retainers.

#### Installing



#### Note

- ◆ Installation is described only for the right window regulator motor. Installation of left window regulator motor is similar.
- ◆ Installation of manual window regulator -3- is similar.





#### WARNING

*If a new window regulator motor is installed (door control unit), the additional functions and the excess force limitation feature have to be coded!*

- Insert window regulator motor -1- into retainers. Move door window slightly up and down so that the splines between motor and cable drum engage easier.
- Secure electrical connector.
- A new window regulator motor is coded using vehicle diagnosis, testing and information system -VAS 5051 A- .
- After coding, allow window regulators to move up to stop once automatically. Then pull switch again for 2 seconds. This programs the upper stop for the window regulator motor.
- Then perform remaining installation in reverse order of removal.

#### Specified torques

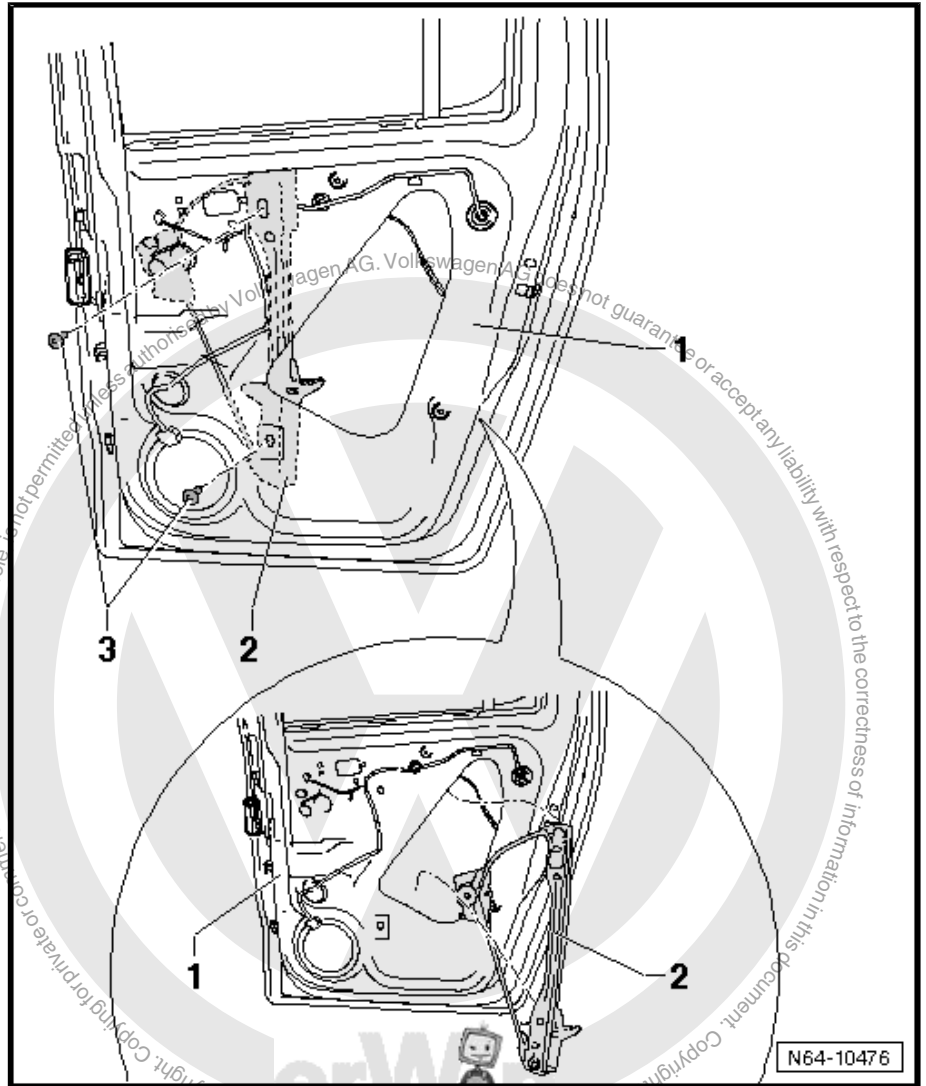
- ♦ ⇒ ["2.6 Assembly overview - window regulator motor", page 142](#) .

## 2.8 Removing and installing window regulator

### Removing







#### Note

*Removal and installation are described only for the right window regulator. The removal and installation of the left window regulator is similar.*

- Removing rear door trim ⇒ General body repairs, interior;  
Rep. gr. 70 ; Door trims .
- Remove rear window ⇒ [page 277](#) .
- Removing window regulator motor ⇒ [page 142](#)
- Remove the 2 bolts -3-.
- Unlock retaining hooks on cable drum.
- Swing window regulator -2- into door.
- Guide window regulator -2- to cut-out in door -1- and remove it.

#### Installing

- Guide window regulator -2- through cut-out into door -1-.
- Guide window regulator to its installation locations.





- Insert thread of window regulator through door and tighten bolts -3-.
- Push cable drum -1- through holes in door, retaining hooks must audibly engage.
- Then perform remaining installation in reverse order of removal.

#### Specified torques

- ♦ ⇒ [“2.2 Assembly overview - window regulator”, page 138](#)

## 2.9 Removing and installing door handle



#### Note

*Removal and installation are described only for the right door handle. The removal and installation of the left door handle are similar.*

#### Removing

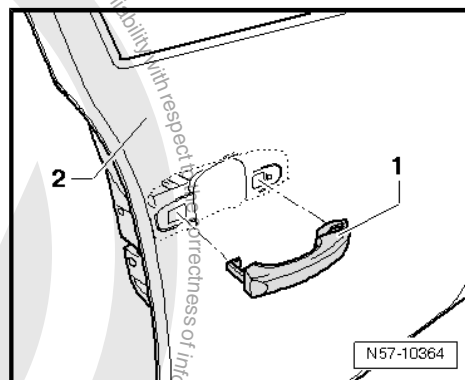
- Remove housing ⇒ [page 148](#) .
- Pull door handle -1- backwards slightly out of retainer for bearing bracket.
- Swing door handle around and remove from door -2- at right angles.

#### Installing

- Insert door handle -1- into bearing bracket at right angles.
- Swing door handle -1- into door -2-.
- Push door handle -1- forward with force into retainer in bearing bracket.

Install housing ⇒ [page 148](#) .

- It is essential that the function then be checked with the door open.



## 2.10 Removing and installing door lock

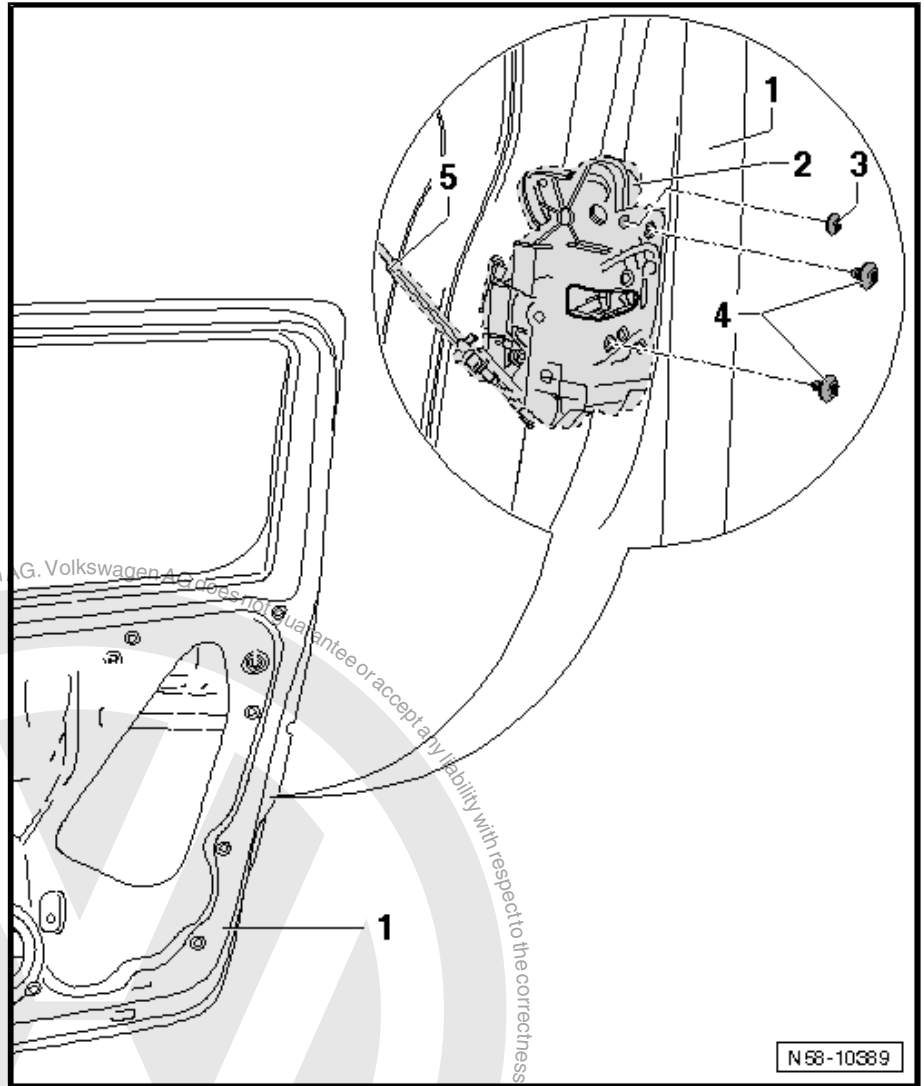
#### Removing



#### Note

*The removal and installation sequence is only for the right door lock. The removal and installation of the left door lock is similar.*





- Remove rear door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim .
- Remove inner film of rear door ⇒ [page 349](#) .
- Remove housing ⇒ [page 148](#) .
- Separate electrical connector (if present).



**Note**

*Cover cap -3- for emergency locking need not be removed.*

- Remove bolts -4-.
- Remove door lock -2- from door -1-.



**Note**

*Release Bowden cables in door if required for subsequent work.*

- Unclip Bowden cable -5- for bearing bracket ⇒ [page 152](#) .
- Unclip Bowden cable for inner door handle ⇒ [page 139](#) .





## Installing

Installation is carried out in reverse order. When doing this, observe the following:

- Afterwards, the function must be checked, as an incorrectly adjusted or incorrectly engaged cable cannot open the door lock -2-.

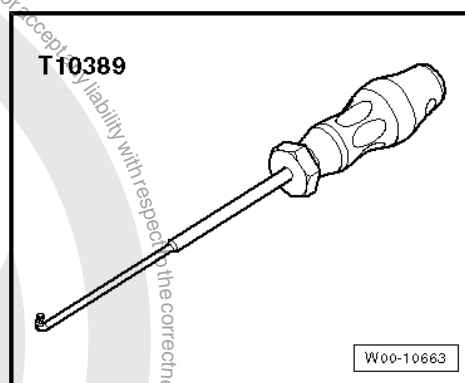
## Specified torques

Component	Specified torques
Door lock	20 Nm

## 2.11 Removing and installing housing (without lock cylinder)

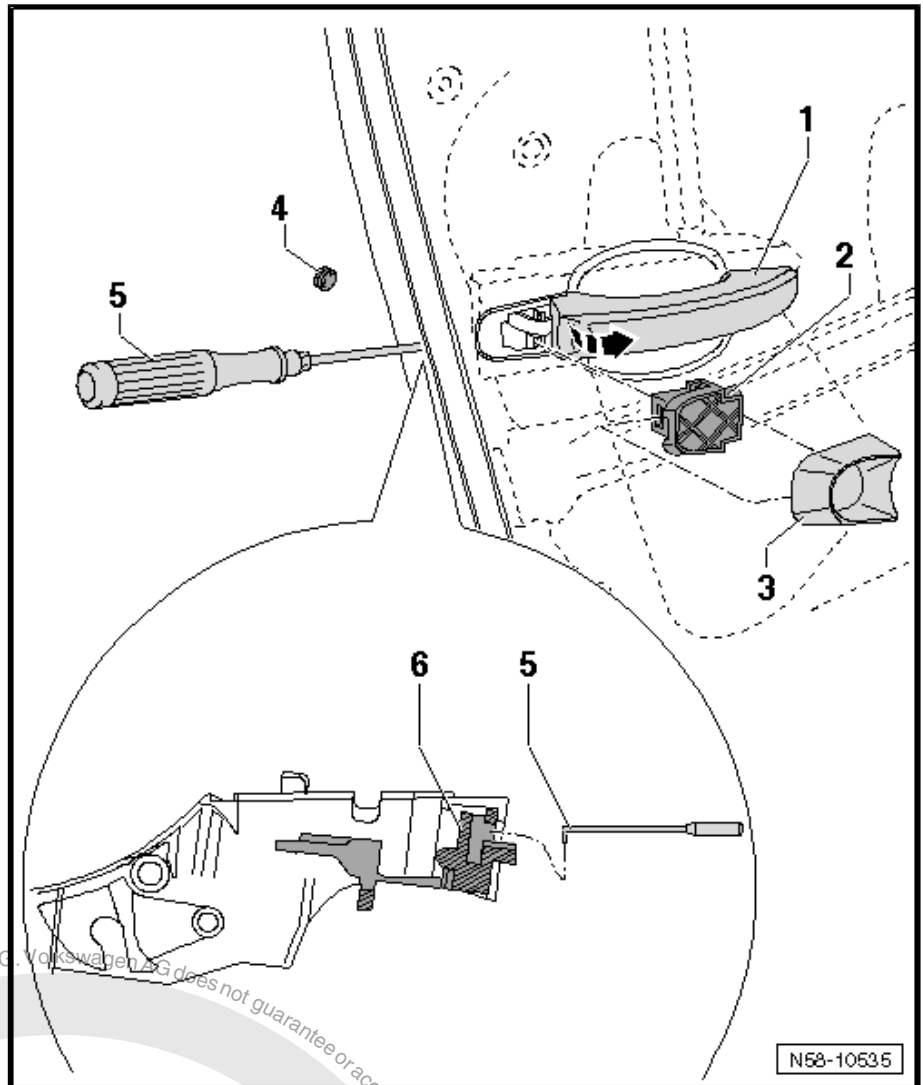
### Special tools and workshop equipment required

- ◆ Assembly tool -T10389-



## Removing

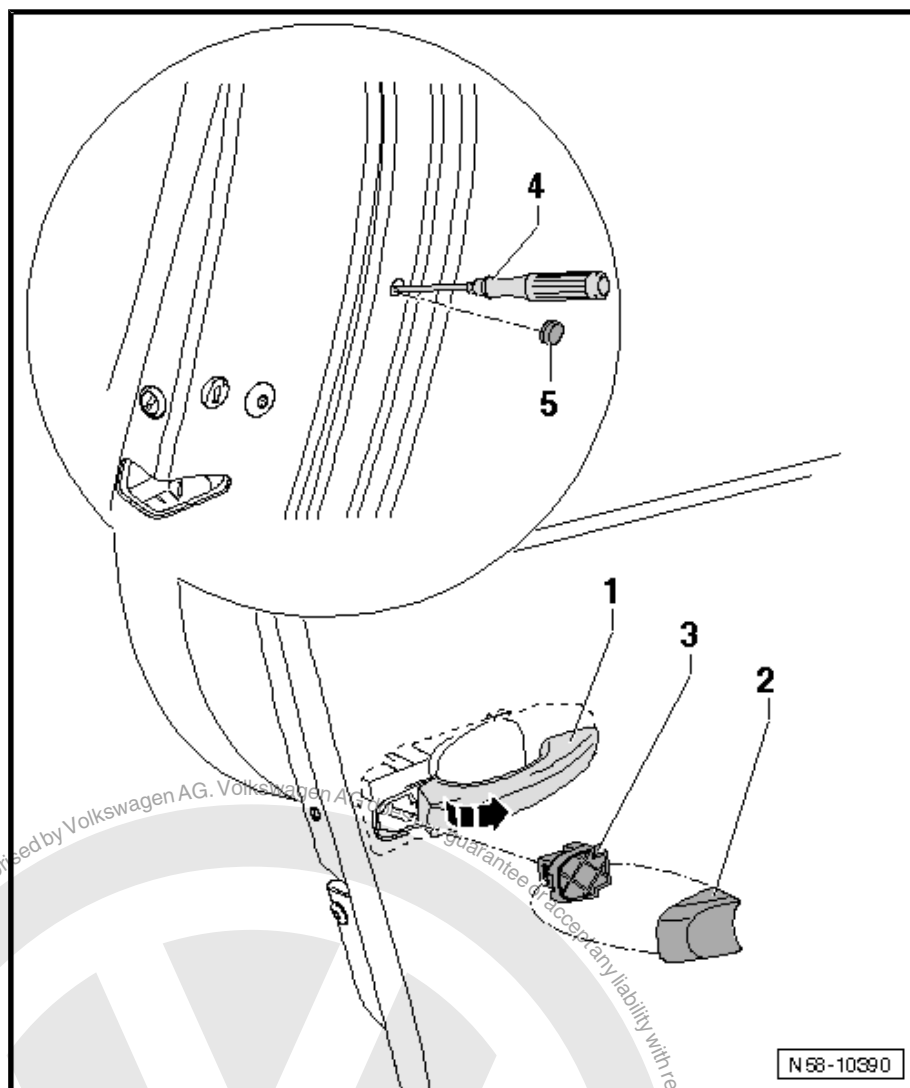




- Lever plug -4- out of opening.
- Unclip cover cap -3- from housing -2-.
- Guide assembly tool -T10389- -5- behind sliding link -6- of door handle bracket.
- Pull assembly tool -T10389- -5- backwards until hook of sliding link -6- disengages.
- Pull door handle -1- off door in -direction of arrow-.
- Pull housing -2- out of door handle bracket.

#### Installing





- Pull door handle -1- off door in -direction of arrow-.
- Push housing -3- into door handle bracket.
- Guide screwdriver -4- against sliding link of door handle bracket.
- Press housing -3- against door.
- Press screwdriver -4- far enough in until hook of sliding link engages.
- Secure plug -5- and clip cover cap -2- onto housing -3-.

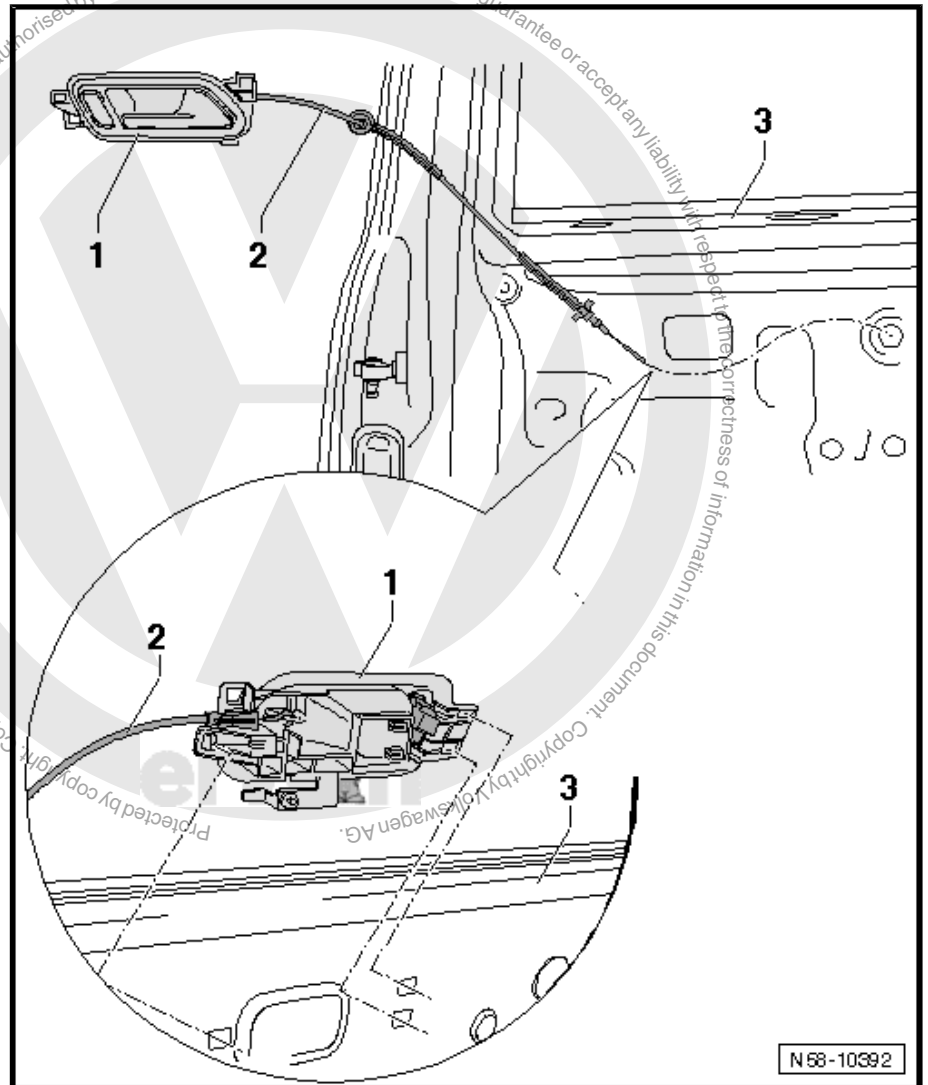
## 2.12 Removing and installing inner door handle



### Note

Removal and installation are described only for the right inner door handle. The removal and installation of the left side are similar.





### Removing

- Remove rear door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim .
- Pull locking lever out of hole in inside door panel.
- Push inner door handle -1- out of clip in door -3-.
- Remove inner film of rear door ⇒ [page 349](#) .
- Unclip Bowden cable out of door lock ⇒ [page 139](#) .
- Remove inner door handle -1- from door -3-.
- Unclip Bowden cable -2- from inner door handle -1-.

### Installing

Install in reverse order of removal.



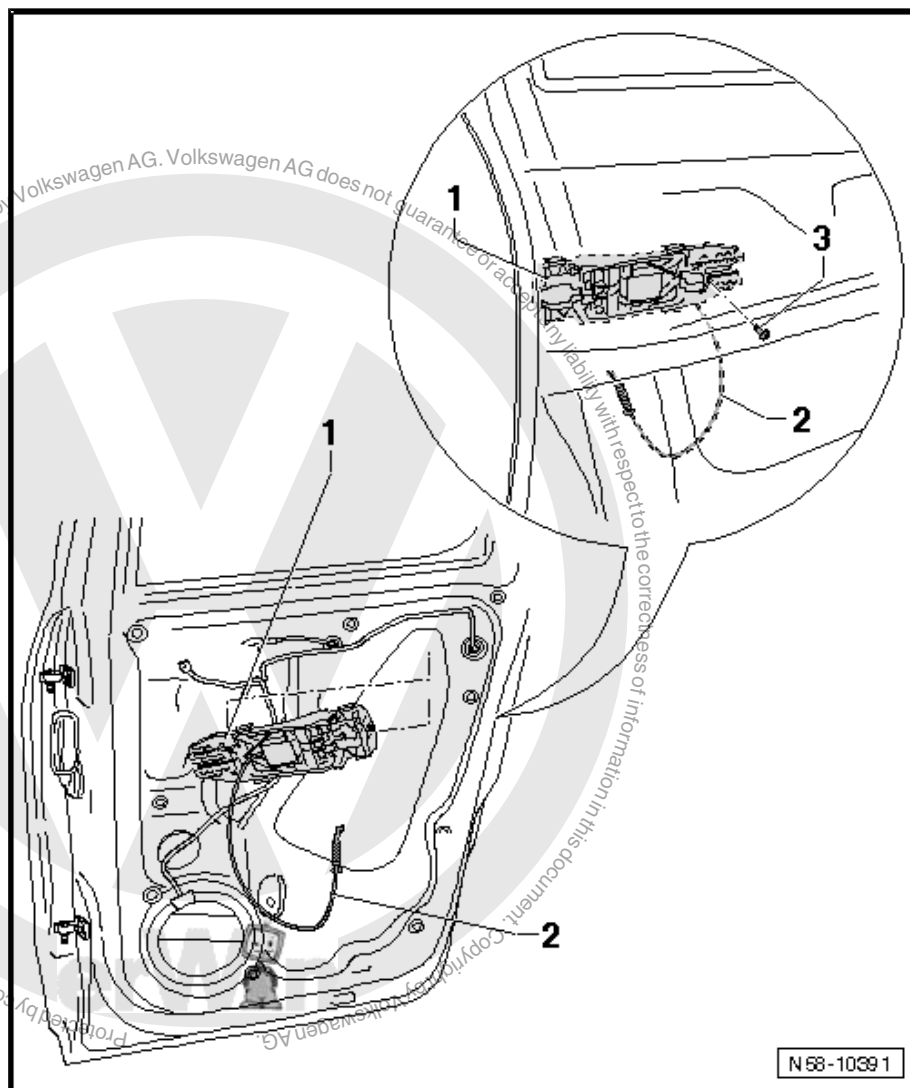


## 2.13 Removing and installing door handle bracket



### Note

Removal and installation are described only for the right door handle bracket. The removal and installation of the left door handle bracket is similar.



### Removing

- Remove rear door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim .
- Remove inner film of rear door ⇒ [page 349](#) .
- Remove housing ⇒ [page 148](#) .
- Remove door handle ⇒ [page 146](#) .
- Remove bolt -3-.
- Remove door handle bracket -1- from door.
- Unclip Bowden cable -2- from door lock.





## Installing

Installation is carried out in reverse order. When doing this, observe the following:

### Specified torques

Component	Specified torques
Bearing bracket	2.0 Nm

## 2.14 Removing and installing striker



### Note

*Removal and installation are described only for the right door striker. The removal and installation of the left striker is similar.*

### Removing

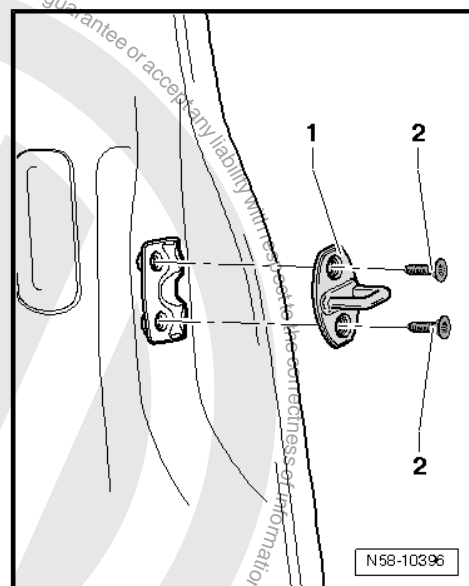
- Remove bolts -2- and remove striker -1-.

### Installing

- Place striker -1- on C-pillar and tighten bolts -2-.
- Adjusting striker pin → [page 129](#).

### Specified torques

Component	Specified torques
Striker	20 Nm



## 2.15 Removing and installing window channel

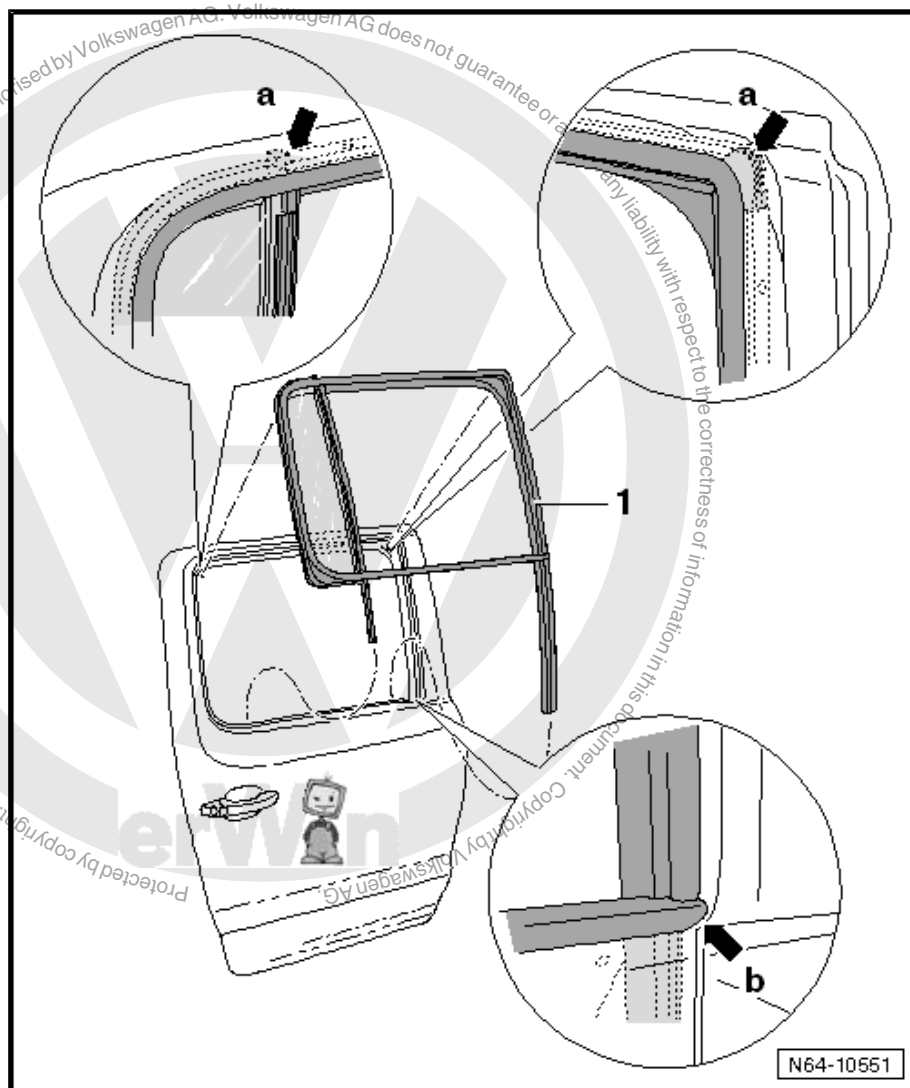
### Removing



### Note

*Removal and installation are described only for the right window channel. The removal and installation of the left window channel is similar.*





- Remove window slot outer seal ⇒ [page 119](#) .
- Peel sealing lip of window channel off the door flange from the outside.
- Pull window channel -1- off door flange uniformly all round.
- Pull window channel -1- out of supports.



#### Note

*Do not bend window slot seal when removing.*

#### Installing

Installation is carried out in reverse order. When doing this, observe the following:

- Push window channel -1- into mountings.
- First, roll outer sealing lip of window channel onto door flange.
- Fit window channel -1- onto door flange evenly all round.





#### Note

- ◆ Do not bend window slot seal when installing.
  - ◆ Positioning marks -arrows a- must rest on the frame section.
  - ◆ Window channel strip must be seated flush -arrow b-.
  - ◆ To prevent wind noise, ensure window channel seats evenly when installing.
- Carry out functional test function before installing door trim.

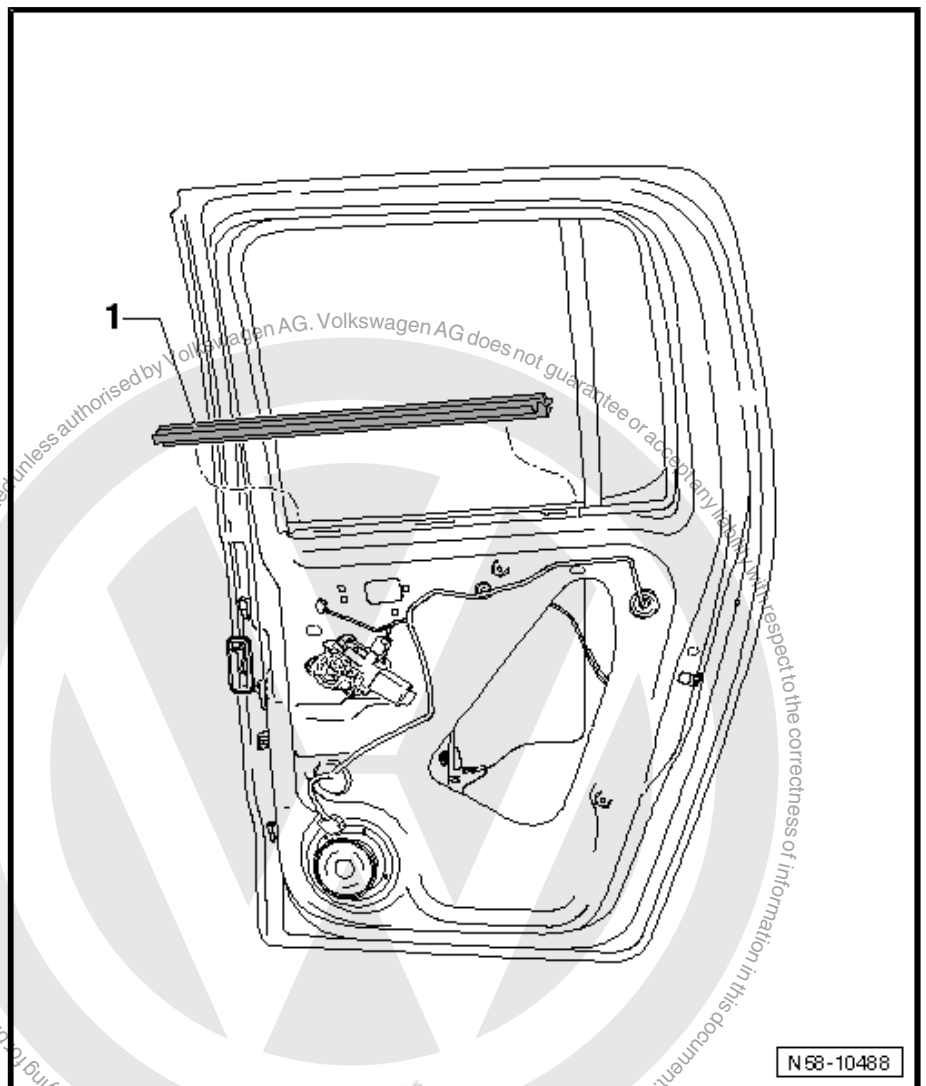
## 2.16 Removing and installing window slot inner seal

### Removing



#### Note

Removal and installation are described only for the window slot inner seal on the right. Removal and installation of the window slot inner seal on the left are analogous.







- Removing rear door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Trims, insulation; Door trims .
- Pull window slot outer seal -1- evenly upwards off flange.

Take care not to bend window slot inner seal.

### Installing

#### Only models with dust package

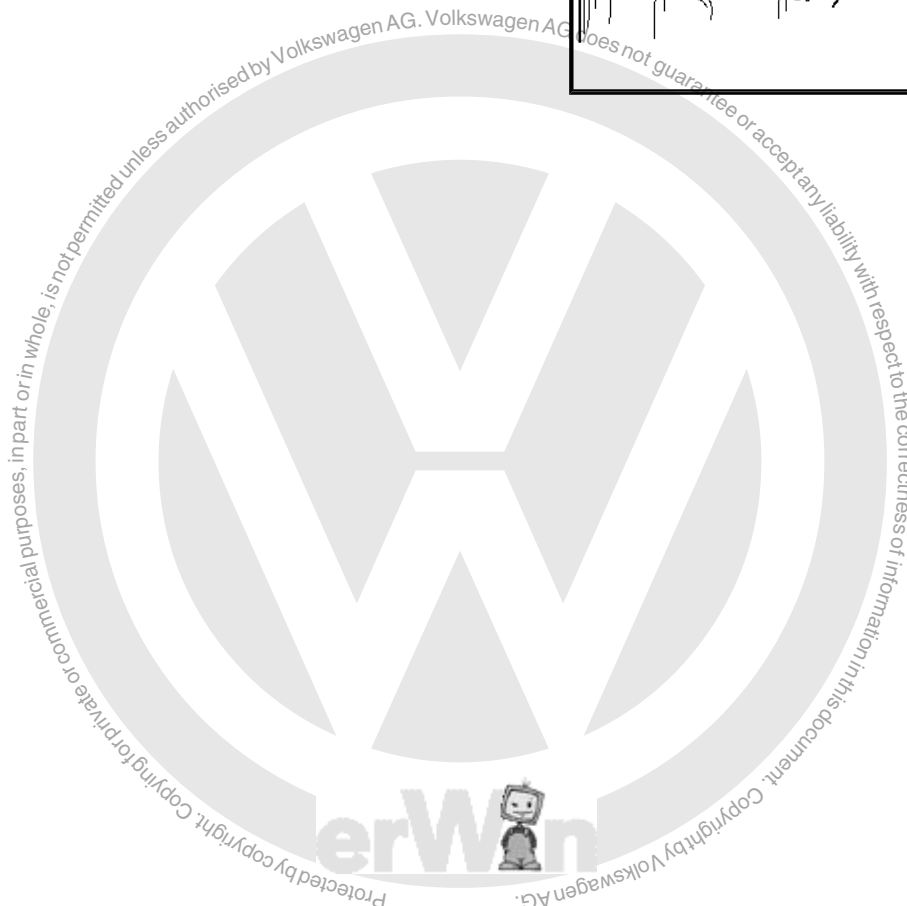
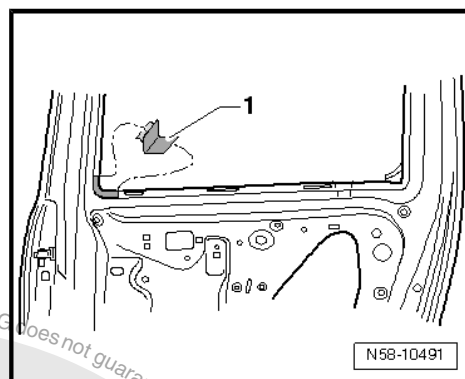
Glue on front foam strip -1-.

Remove protective film before installation.

Installation is carried out in reverse order. When doing this, observe the following:

- First, position window slot inner seal -1- on window bar and then evenly press onto the flange firmly by hand

After installation, the window slot inner seal -1- must be seated flush.







## 60 – Sunroof

### 1 Tilting sunroof

Launch of the tilting sunroof is planned for a later point in time.







## 61 – Convertible roof, hardtop, canopy

### 1 Hardtop

⇒ "1.1 Assembly overview - hardtop, aluminium rail", page 158

⇒ "1.2 Assembly overview - seals and protective films, hardtop", page 159

⇒ "1.3 Assembly overview - protective films", page 160

⇒ "1.4 Removing and installing hardtop", page 161

⇒ "1.5 Preassembly of aluminium rail", page 169

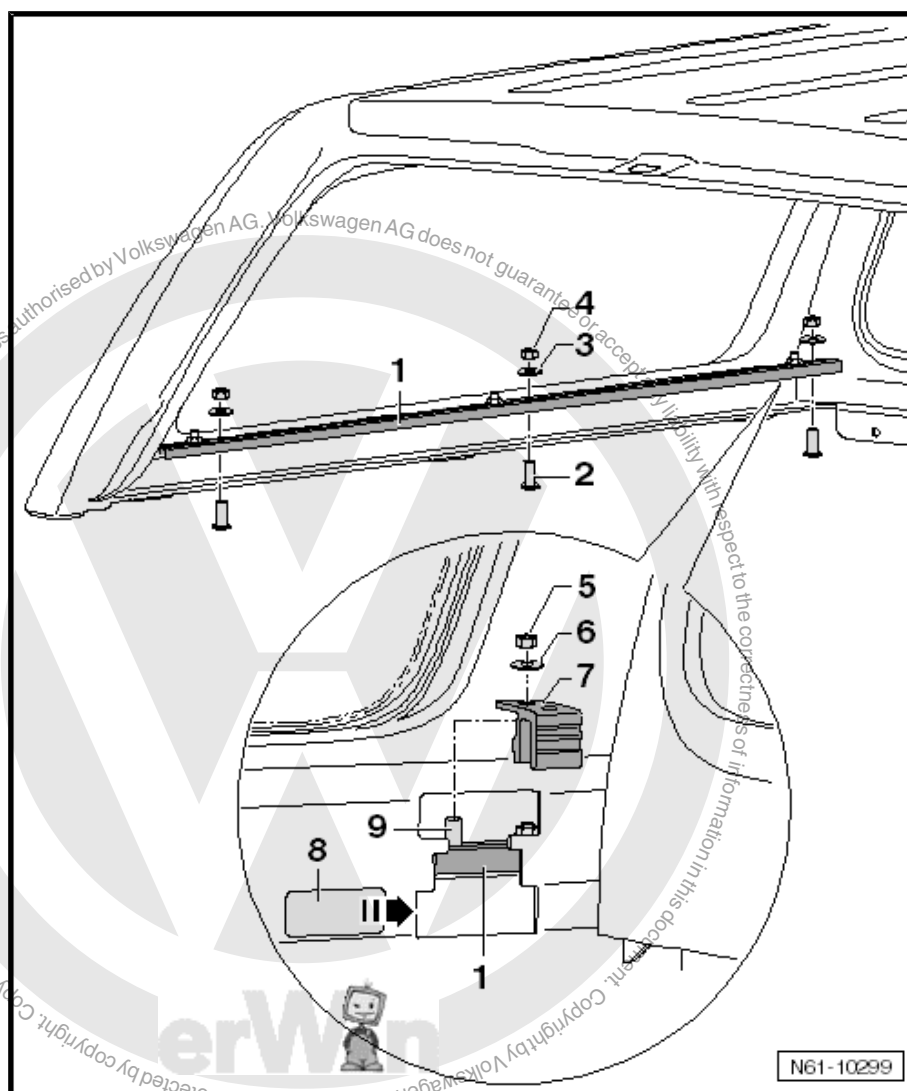
#### 1.1 Assembly overview - hardtop, aluminium rail



#### Note

Only the left side is shown. The right side is analogous.

- 1 - Aluminium rail
  - ☐ Left and right
- 2 - Bolt
  - ☐ Qty. 3 on each side
- 3 - Washer
  - ☐ Qty. 3 on each side
- 4 - Hexagon nut
  - ☐ Qty. 3 on each side
  - ☐ Specified torque: 8.0 Nm
- 5 - Hexagon nut
  - ☐ Qty. 3 on each side
  - ☐ Specified torque: 8.0 Nm
- 6 - Washer
  - ☐ Qty. 3 on each side
- 7 - Clamp element upper part
  - ☐ Qty. 3 on each side
- 8 - Clamp element lower part
  - ☐ Qty. 3 on each side
- 9 - Bolt
  - ☐ Qty. 3 on each side



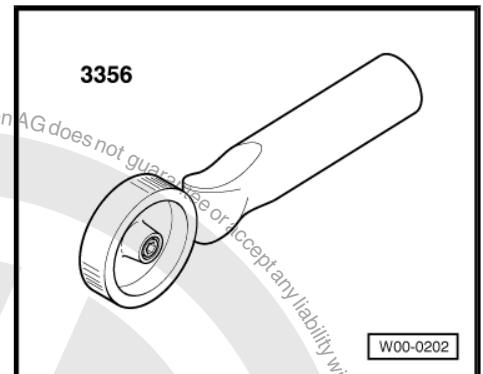




## 1.2 Assembly overview - seals and protective films, hardtop

Special tools and workshop equipment required

- ◆ Roller -3356-



### Fitting notes

- ◆ Seals cannot be removed without being damaged.
- ◆ Use only adhesive remover to remove adhesive residue.
- ◆ Ensure that the adhesive surfaces are free of dust and grease.
- ◆ Remove backing only immediately before installation and then bond seals.
- ◆ Use roller -3356- to press down seals along entire length.

Seal dimensions: length × width × thickness





#### 1 - Seal

- 1 × 1596 + 5 × 20 × 6 mm

#### 2 - Seal

- 2 × 110 + 3 × 20 × 6 mm

#### 3 - Seal

- 2 × 160 + 3 × 15 × 6 mm

#### 4 - Seal

- 2 × 486 + 5 × 20 × 6 mm

#### 5 - Seal

- 2 × 160 + 3 × 15 × 6 mm

#### 6 - Seal

- 2 × 486 + 5 × 20 × 6 mm

#### 7 - Seal

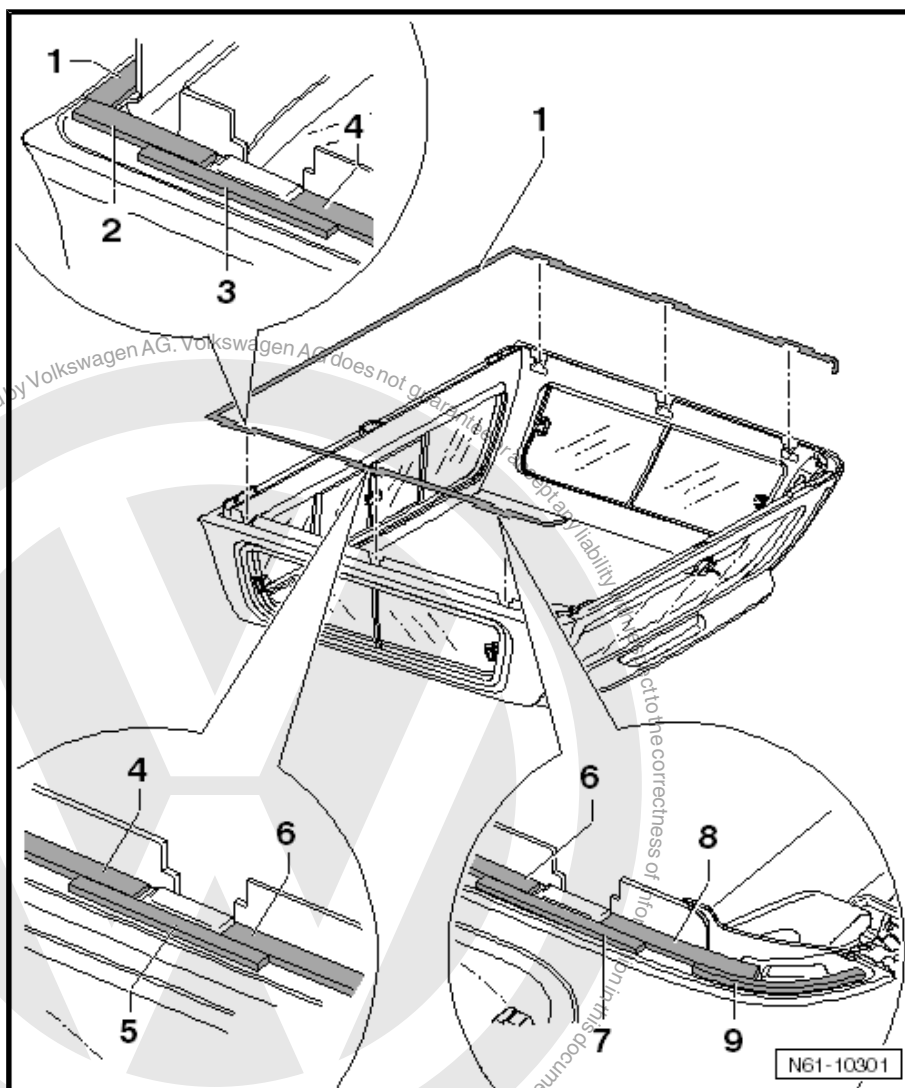
- 2 × 160 + 3 × 15 × 6 mm

#### 8 - Seal

- 2 × 143 + 3 × 20 × 6 mm

#### 9 - Seal

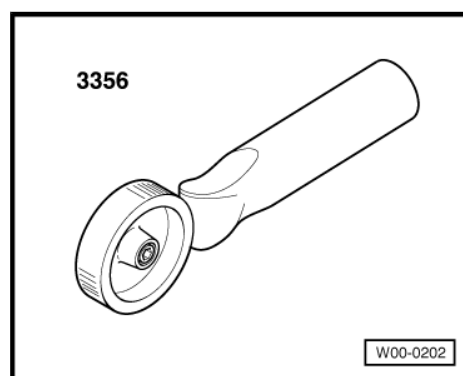
- 2 × 152 + 3 × 10 × 6 mm



### 1.3 Assembly overview - protective films

#### Special tools and workshop equipment required

- ◆ Roller -3356-



#### Fitting notes

- ◆ Protective films cannot be removed without being damaged.
- ◆ Use only adhesive remover to remove adhesive residue.
- ◆ Ensure that adhesive surfaces are free of dust and grease.





- ◆ Remove backing from protective film immediately before installation and then bond protective films.
- ◆ Use roller -3356- to press down protective films along entire length.

**1 - Protective film**

- ☐ Qty. 1 cross member bulkhead top

**2 - Protective film**

- ☐ Qty. 1 side board left

**3 - Protective film**

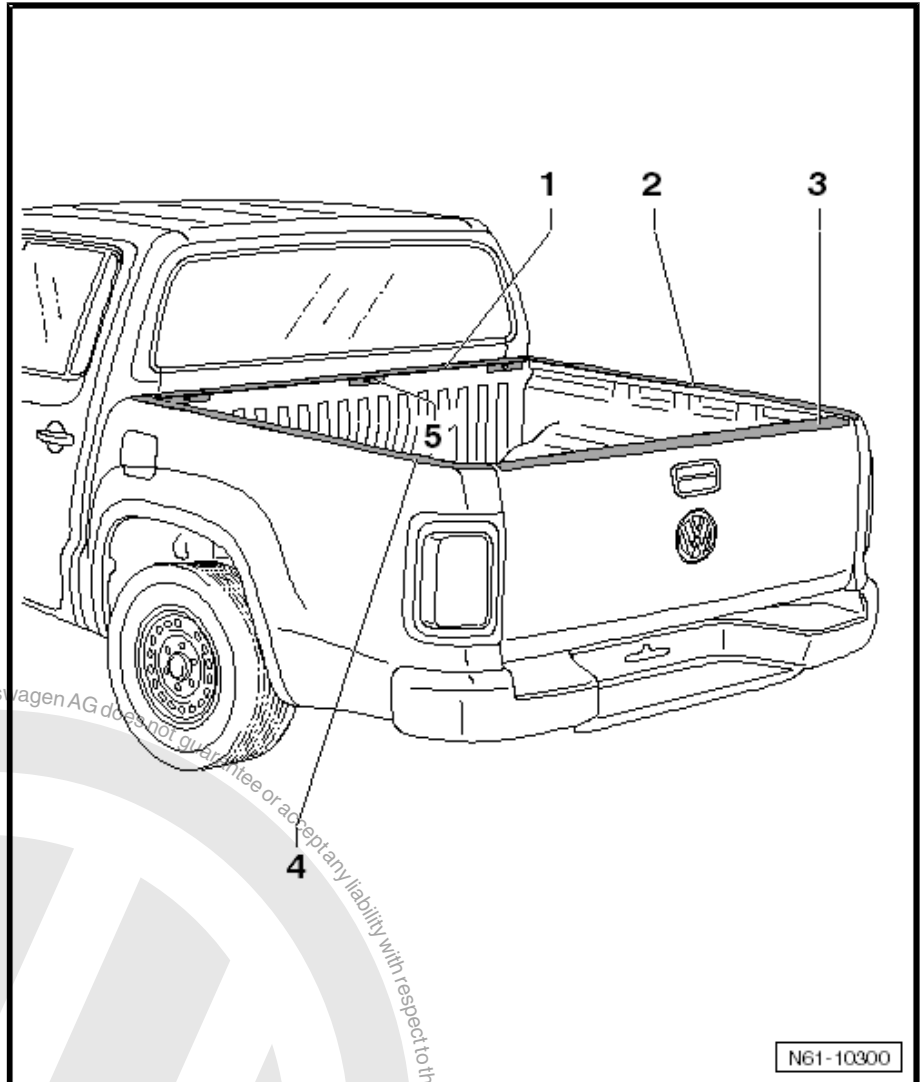
- ☐ Qty. 1 side board right

**4 - Protective film**

- ☐ Qty. 1 rear lid

**5 - Protective film**

- ☐ Qty. 3 cross member bulkhead



N61-10300

## 1.4 Removing and installing hardtop

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-

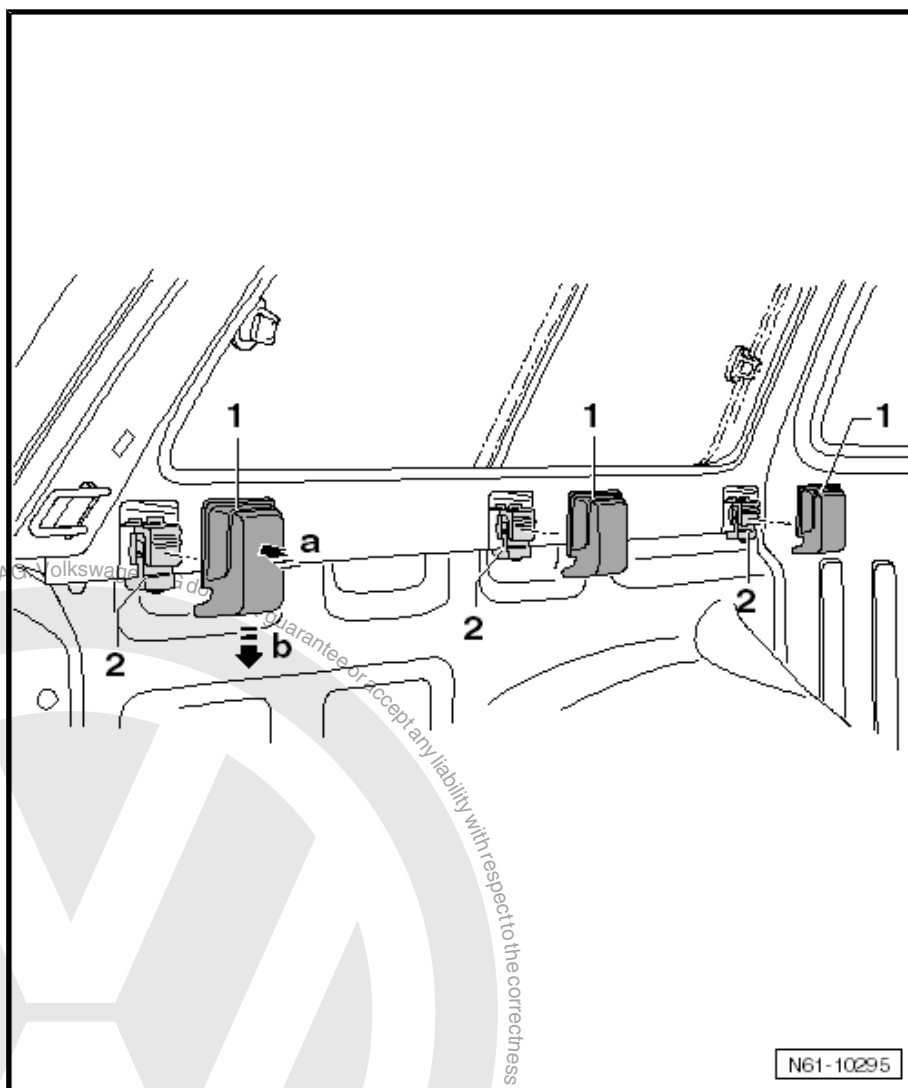
**V.A.G 1331**



W00-0427

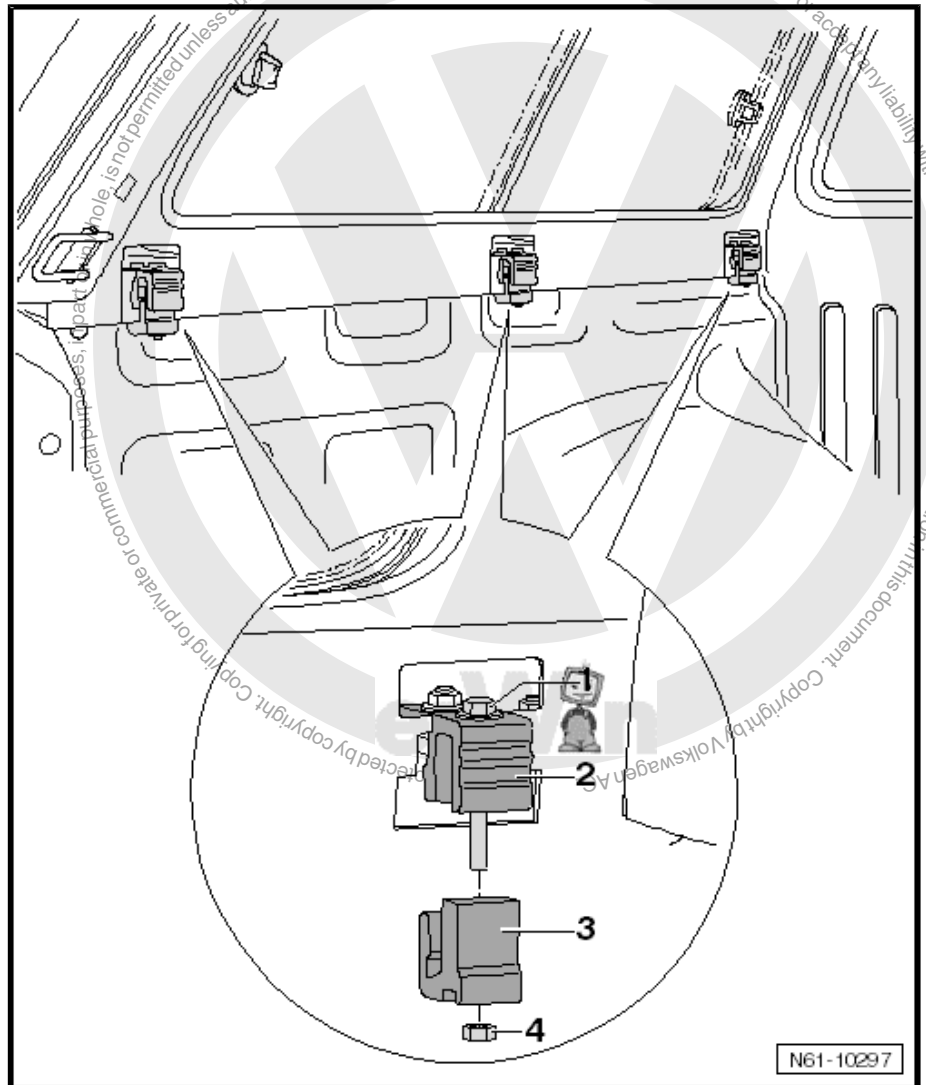
### Removing





- Press covers -2- (qty. 3) at left and right onto retaining clips and push down.

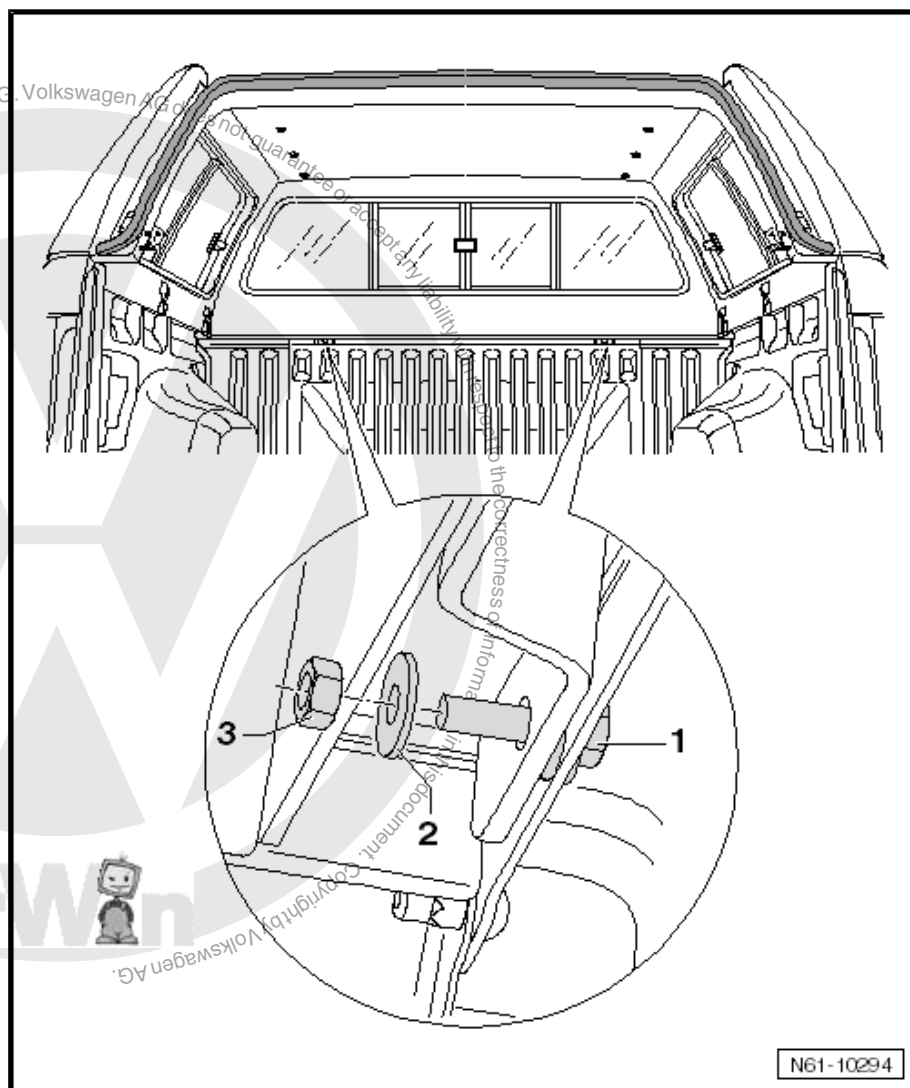




**Left and right (3 on each side).**

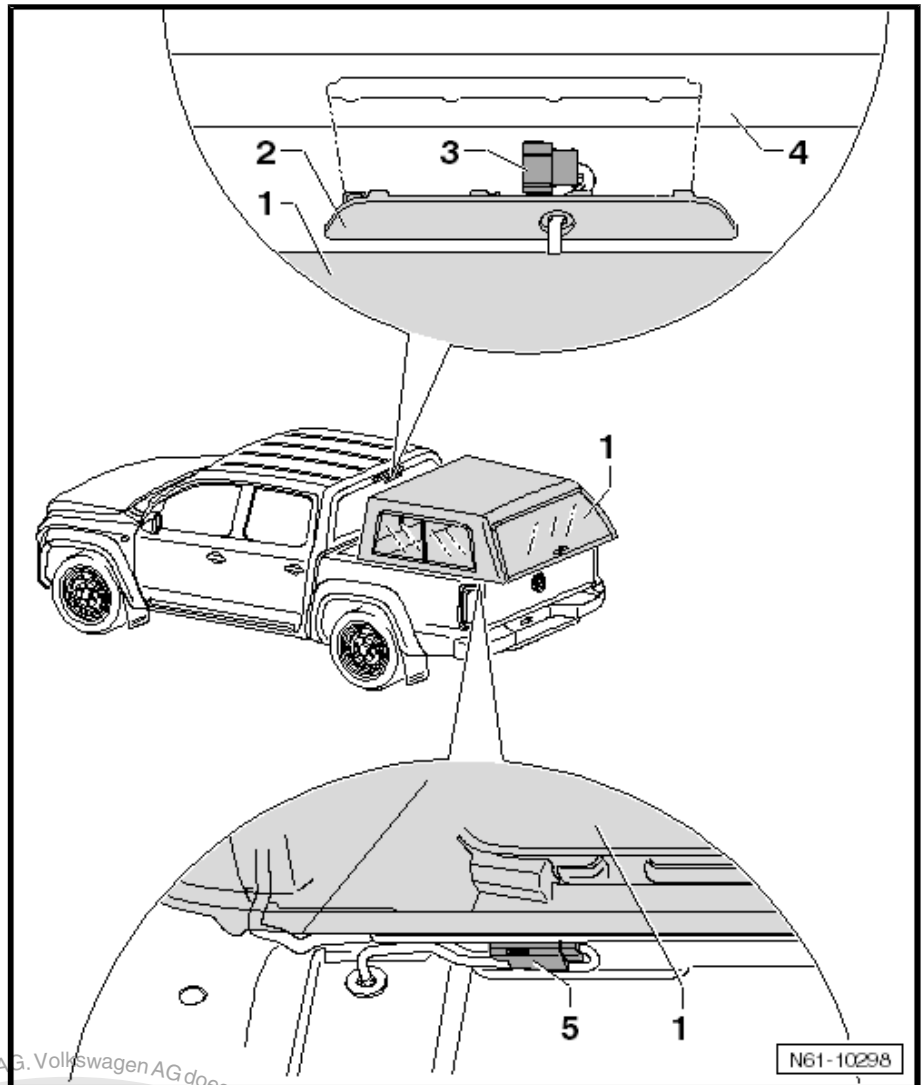
- Unscrew hexagon bolt -4- and withdraw bolt -1- upwards.
- Slide clamp element lower part -3- sideways out of clamp element upper part -2-.





- Unscrew hexagon nut -3- from left and right of hardtop and bulkhead cross member.
- Remove bolt -1- with washers -2- from left and right of hardtop and bulkhead cross member.





- Unplug connection -5- on left inner side of side board.
- Move hardtop -1- slightly to rear with aid of second mechanic.
- Unclip panel -2- from cab -4-.
- Unplug connector -3- (2 plug connectors).
- Lift hardtop -1- off cargo box (at least 4 mechanics).

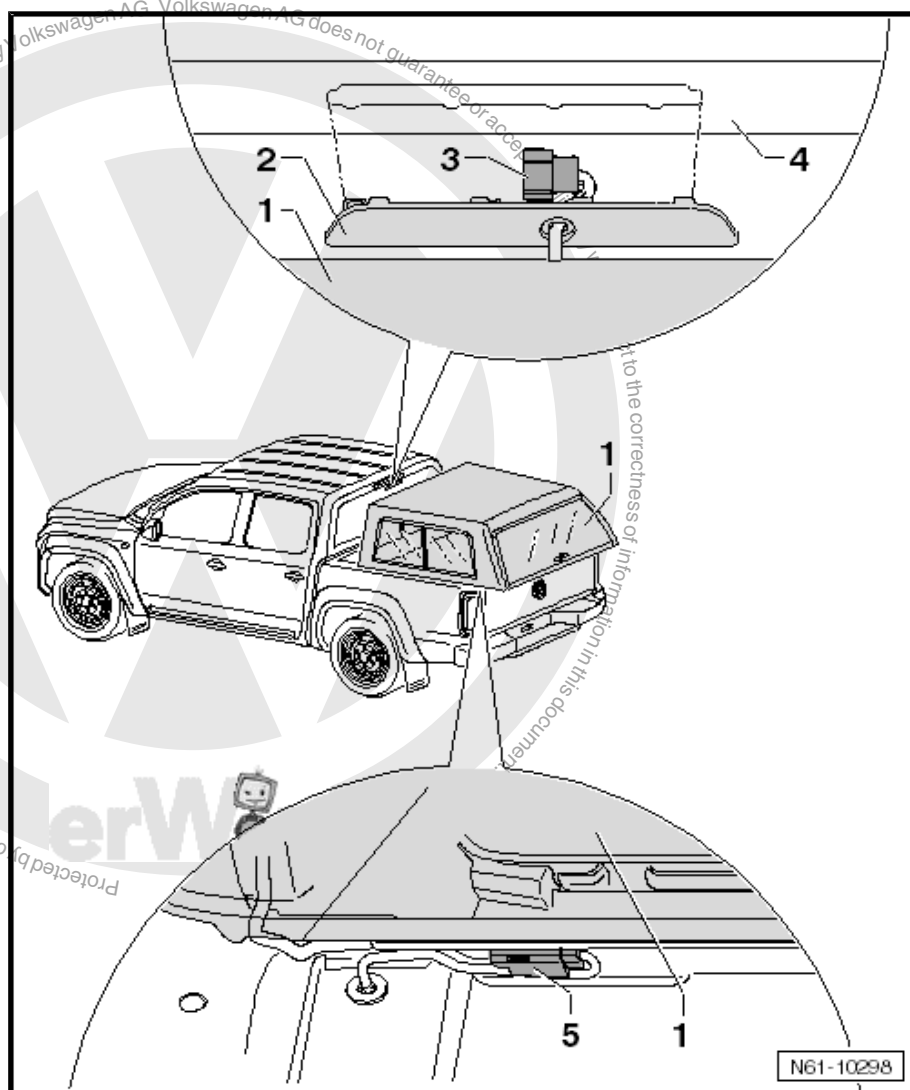


#### Caution

**Place the hardtop -1- on its roof on 2 support trestles fitted with soft pads.**

#### Installing





- Place hardtop -1- on cargo box (at least 4 mechanics).
- Plug in connector -3- (2 plug connectors).
- Locate panel -2- on cab -4- at right, inserting at top first and then clipping in at bottom.
- Slide hardtop -1- forwards.
- After placing hardtop -1- on cargo box, align it correctly.

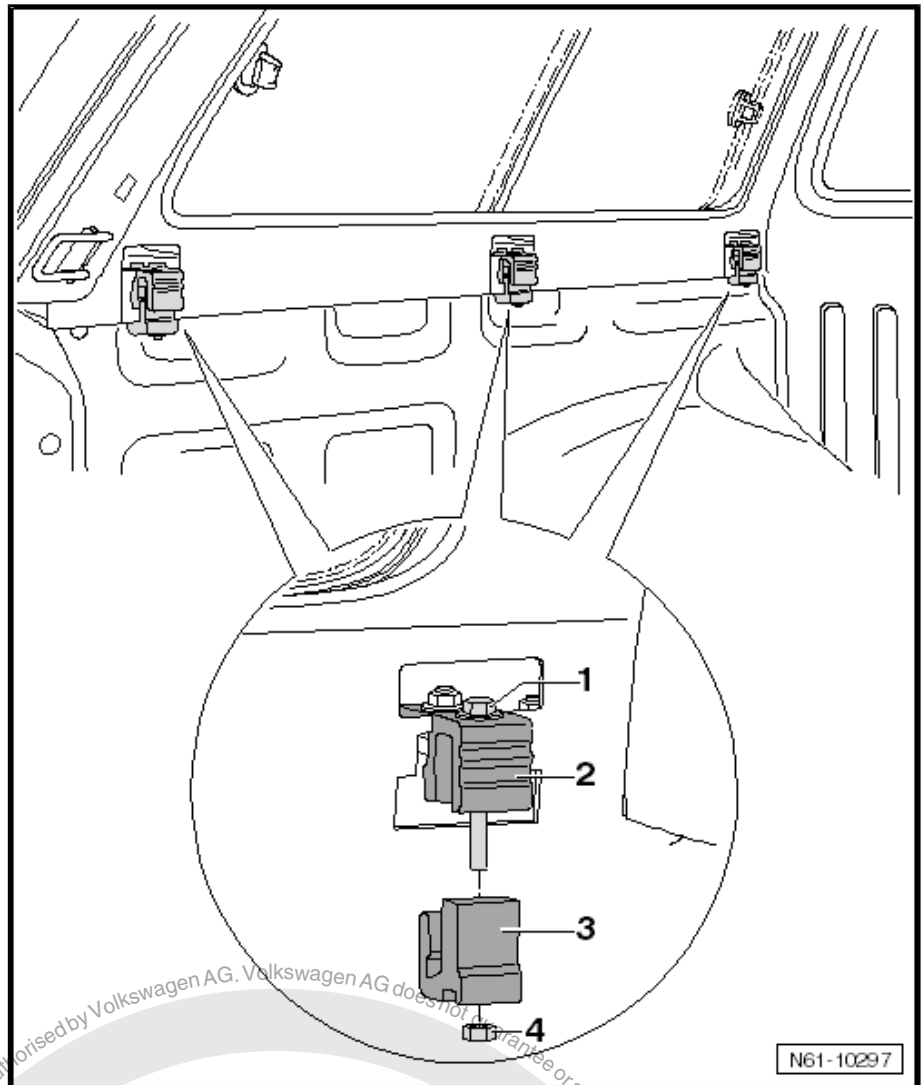


**Note**

*Pay particular attention to the sealing function between the tailgate and the hinged rear window.*

- Plug in connection -5- on left inner side of side board.





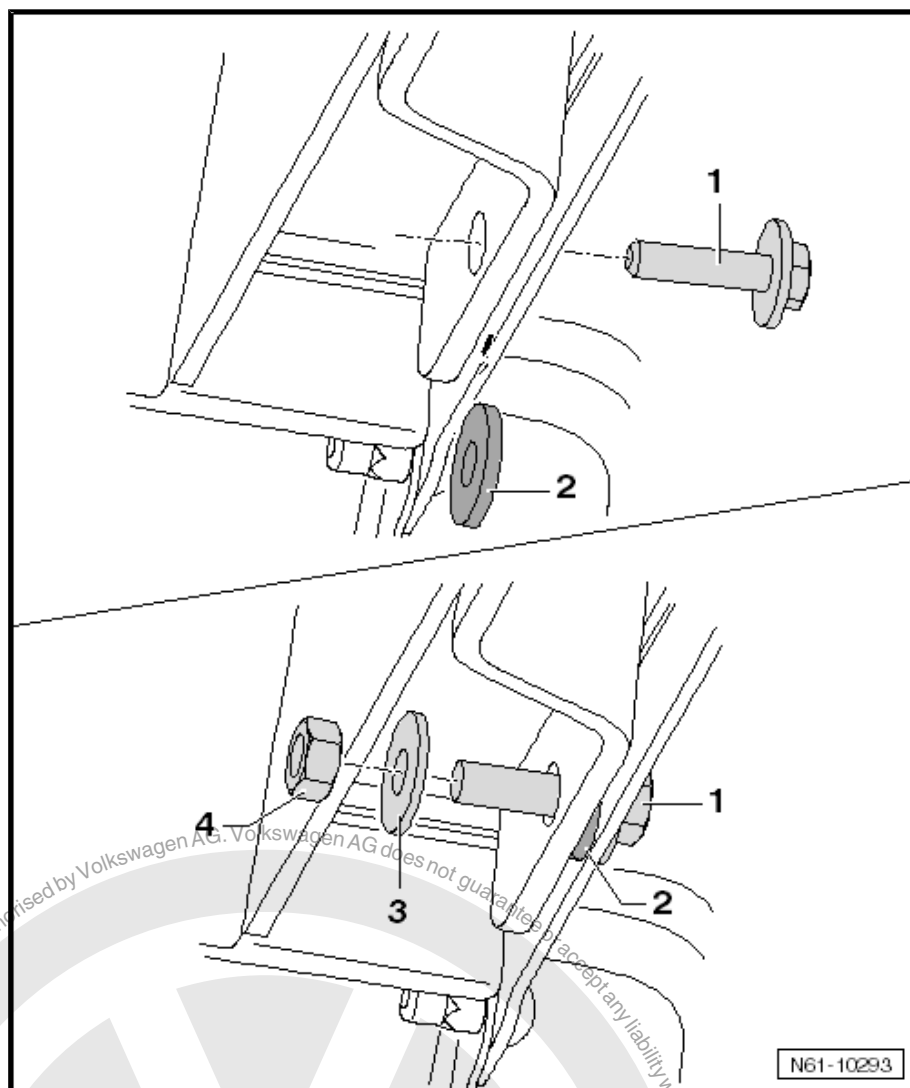
**Left and right (3 on each side).**

- Slide clamp element lower part -3- sideways into clamp element upper part -2-.
- Insert bolt -1- into clamp element upper part -2- and clamp element lower part -3-.
- Screw hexagon nut -4- onto bolt -1- and fix in slot of clamp element lower section -3- to prevent it from turning.

**Specified torques**

Component	Specified torques
Bolts for upper clamp element part	8.0 Nm





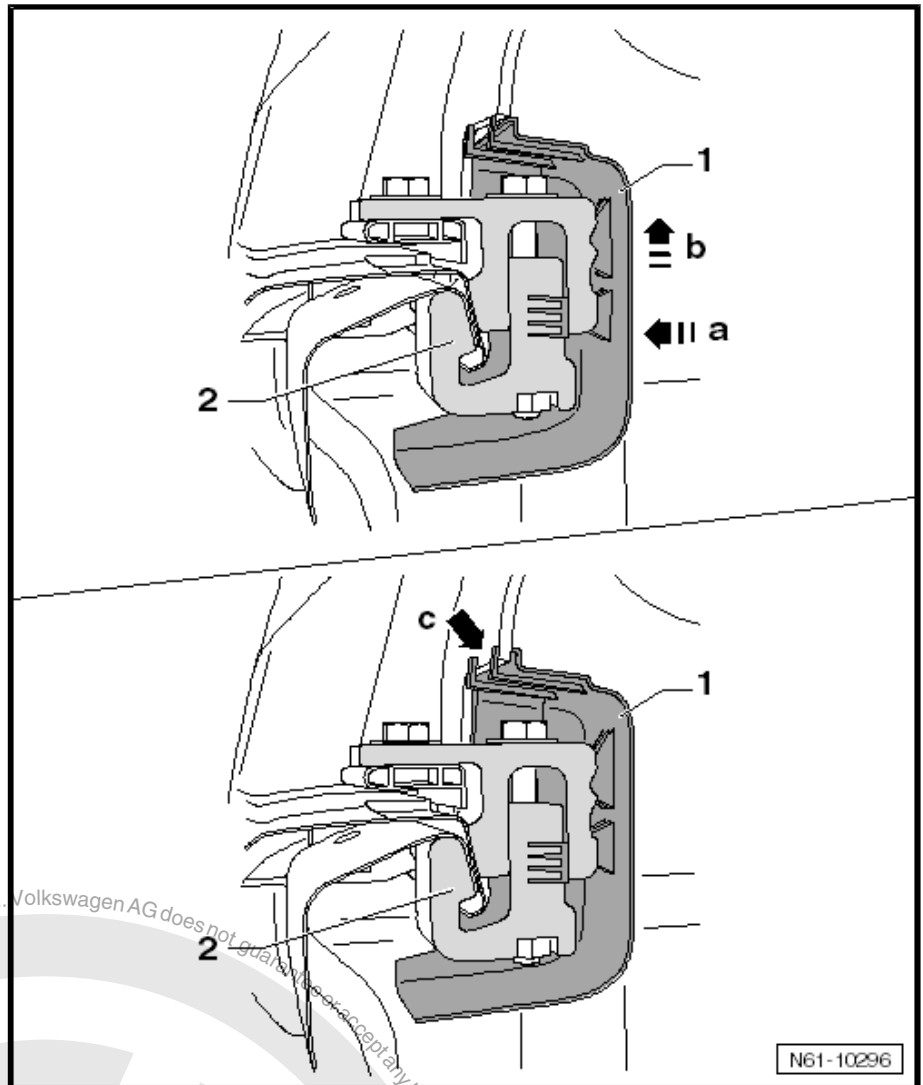
**Left and right.**

- Insert washers -2- between hardtop and front bulkhead cross member.
- Insert bolt -1- between front bulkhead cross member, washer -2- and hardtop.
- Locate washer -3- on bolt -1- and tighten hexagon nut -4-.

**Specified torques**

Component	Specified torques
Hexagon nut to hardtop	8.0 Nm





Press cover -1- (qty. 3) onto retaining clip -2- -arrow a-

- Slide cover -1- up -arrow b-
- Locate lugs -arrow c- behind side cladding and retaining clip -2-.
- Slide cover -1- up until it engages.

## 1.5 Preassembly of aluminium rail

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-

V.A.G 1331



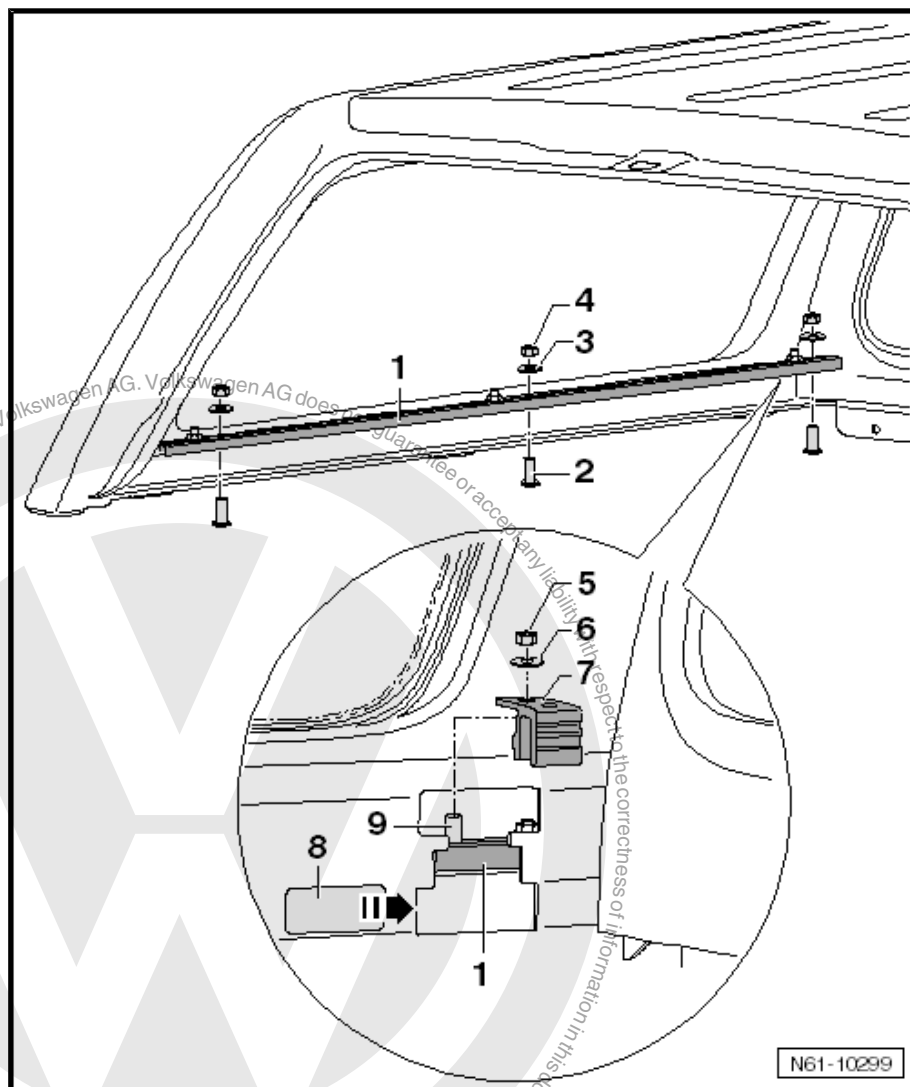
W00-0427





**Note**

*Installation is described only for the left side. The right side is analogous.*



**Assembling sequence:**

- Position aluminium rail -1- in hardtop and insert bolt -2- through hardtop and aluminium rail.
- Locate washer -3- on bolt -2- and tighten hexagon nut -4-.
- Move base plate -8- into contact with clamp element upper part -7-.
- Insert clamp element upper part -7- with bolt -9- into aluminium rail -1-.



**Note**

*Ensure base plate -8- is seated correctly.*

- Locate washer -6- on aluminium rail bolt -9-.





- Screw hexagon nut -5- onto bolt -9- by hand and tighten.

#### Specified torques

- ◆ ⇒ [“1.1 Assembly overview - hardtop, aluminium rail”, page 158](#) .











## 2 Lid for hardtop

- ⇒ ["2.1 Assembly overview - hardtop lid", page 173](#)
- ⇒ ["2.2 Assembly overview - hinge", page 174](#)
- ⇒ ["2.3 Assembly overview - lid lock", page 175](#)
- ⇒ ["2.4 Assembly overview - lid handle", page 176](#)
- ⇒ ["2.5 Assembly overview - gas strut bracket", page 177](#)
- ⇒ ["2.6 Assembly overview - striker for lid", page 178](#)
- ⇒ ["2.7 Removing and installing hardtop lid", page 178](#)
- ⇒ ["2.8 Removing and installing hardtop lid hinge", page 180](#)
- ⇒ ["2.9 Removing and installing hardtop lid lock", page 181](#)
- ⇒ ["2.10 Removing and installing hardtop lid handle", page 183](#)
- ⇒ ["2.11 Removing and installing gas strut bracket", page 185](#)
- ⇒ ["2.12 Removing and installing hardtop lid striker", page 187](#)
- ⇒ ["2.13 Removing gas strut", page 189](#)
- ⇒ ["2.14 Removing and installing lock cover", page 190](#)
- ⇒ ["2.15 Removing and installing high-level brake light", page 191](#)
- ⇒ ["2.16 Hardtop lid seal", page 193](#)

### 2.1 Assembly overview - hardtop lid

#### 1 - Lid

- ❑ Removing and installing  
⇒ [page 178](#)

#### 2 - Handle

- ❑ Removing and installing  
⇒ [page 183](#)

#### 3 - Seal, lid

- ❑ Removing and installing  
⇒ [page 193](#)

#### 4 - Lock cover

- ❑ Removing and installing  
⇒ [page 190](#)

#### 5 - Bracket, gas strut top

- ❑ Removing and installing  
⇒ [page 185](#)

#### 6 - Gas strut

- ❑ Removing ⇒ [page 189](#)

#### 7 - Bracket, gas strut bottom

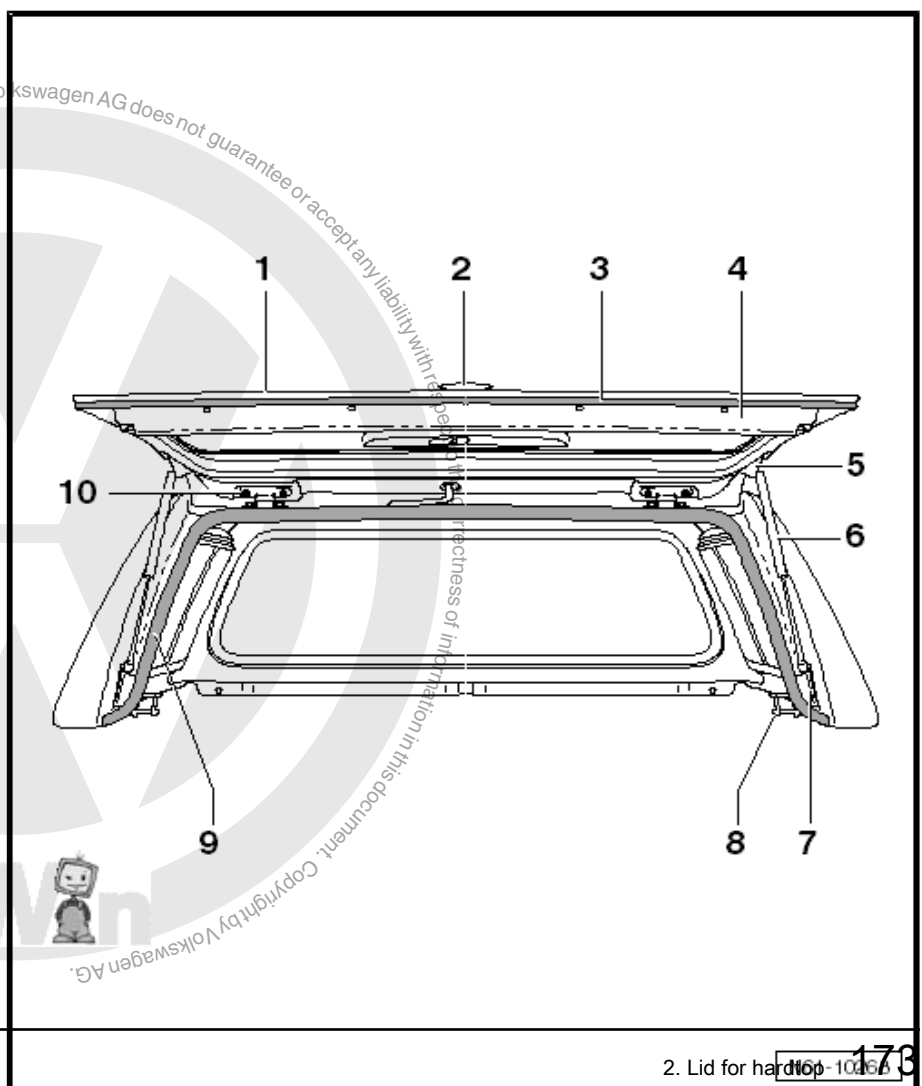
- ❑ Removing and installing  
⇒ [page 185](#)

#### 8 - Striker

- ❑ Removing and installing  
⇒ [page 187](#)

#### 9 - Seal, trim

- ❑ Removing and installing  
⇒ [page 228](#)







## 10 - Hinge

- ☐ Left and right.
- ☐ Removing and installing ⇒ [page 180](#)

## 2.2 Assembly overview - hinge



### Note

*Assembly overview is described only for the left hinge. Assembly overview of right hinge is analogous.*

### 1 - Hinge

- ☐ Screwed to base plate -4-
- ☐ Removing and installing ⇒ [page 180](#)

### 2 - Hexagon nut

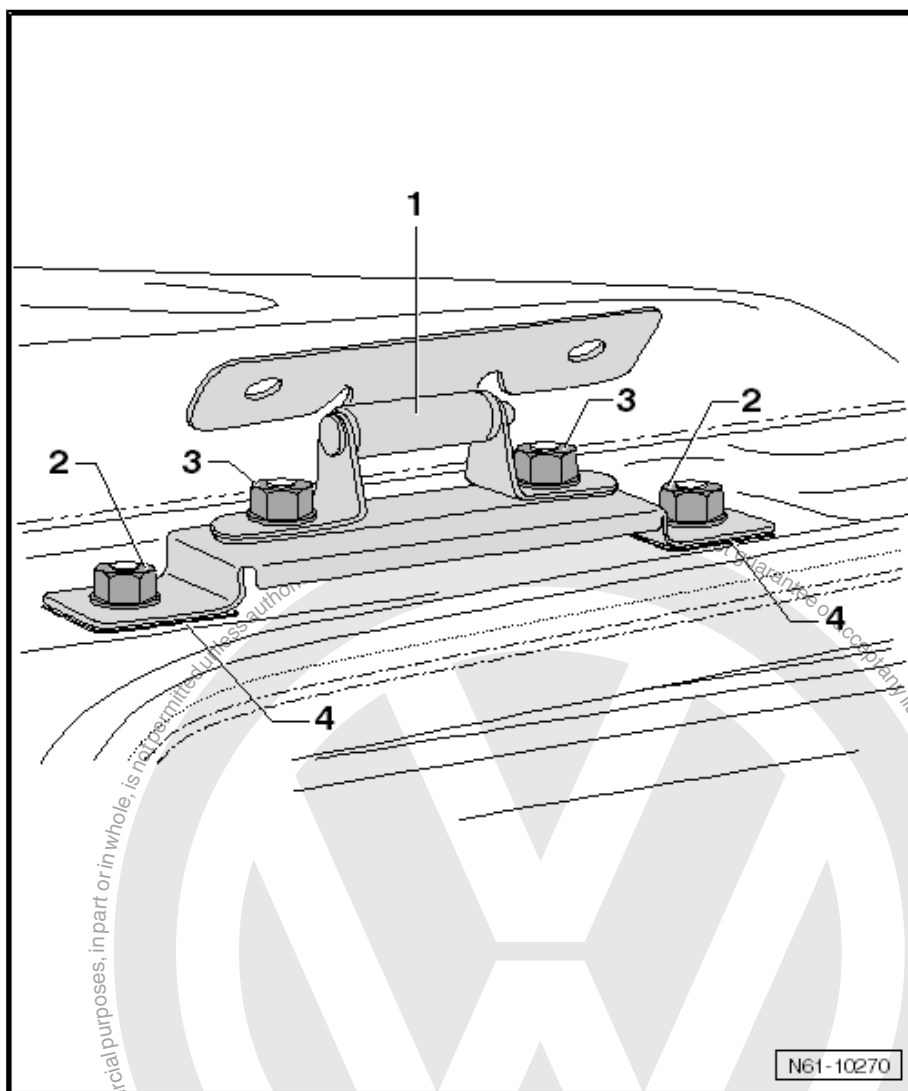
- ☐ For base plate -4-
- ☐ Qty. 2
- ☐ Specified torques:  $10 \pm 1.5$  Nm.

### 3 - Hexagon nut

- ☐ For hinge -1-
- ☐ Qty. 2
- ☐ Specified torques:  $10 \pm 1.5$  Nm.

### 4 - Base plate

- ☐ Bolted to hardtop







## 2.3 Assembly overview - lid lock



### Note

Only the left side is shown. The right side is analogous.

#### 1 - Lock

- ☐ Right

#### 2 - Lock

- ☐ Left.

#### 3 - Lock cover

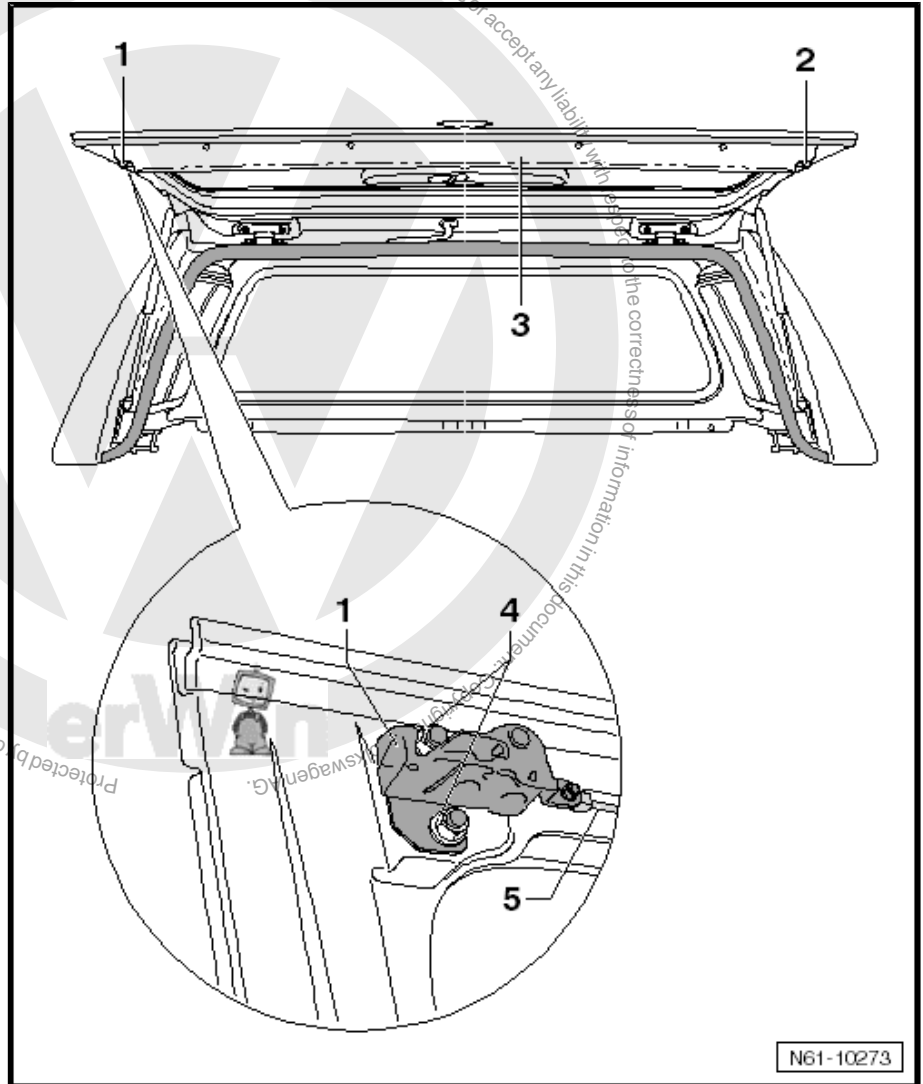
- ☐ Removing and installing  
⇒ [page 190](#)

#### 4 - Hexagon nut

- ☐ Qty. 2
- ☐ Specified torques: 10 ± 1.5 Nm.

#### 5 - Pull rod

- ☐ To handle



N61-10273





## 2.4 Assembly overview - lid handle

### 1 - Handle

- ❑ Removing and installing  
⇒ [page 183](#)

### 2 - Seal

### 3 - Hexagon nut

- ❑ Specified torque:  
 $10 \pm 1.5 \text{ Nm}$

### 4 - Spring hanger

### 5 - Pull rods

- ❑ Left to lock

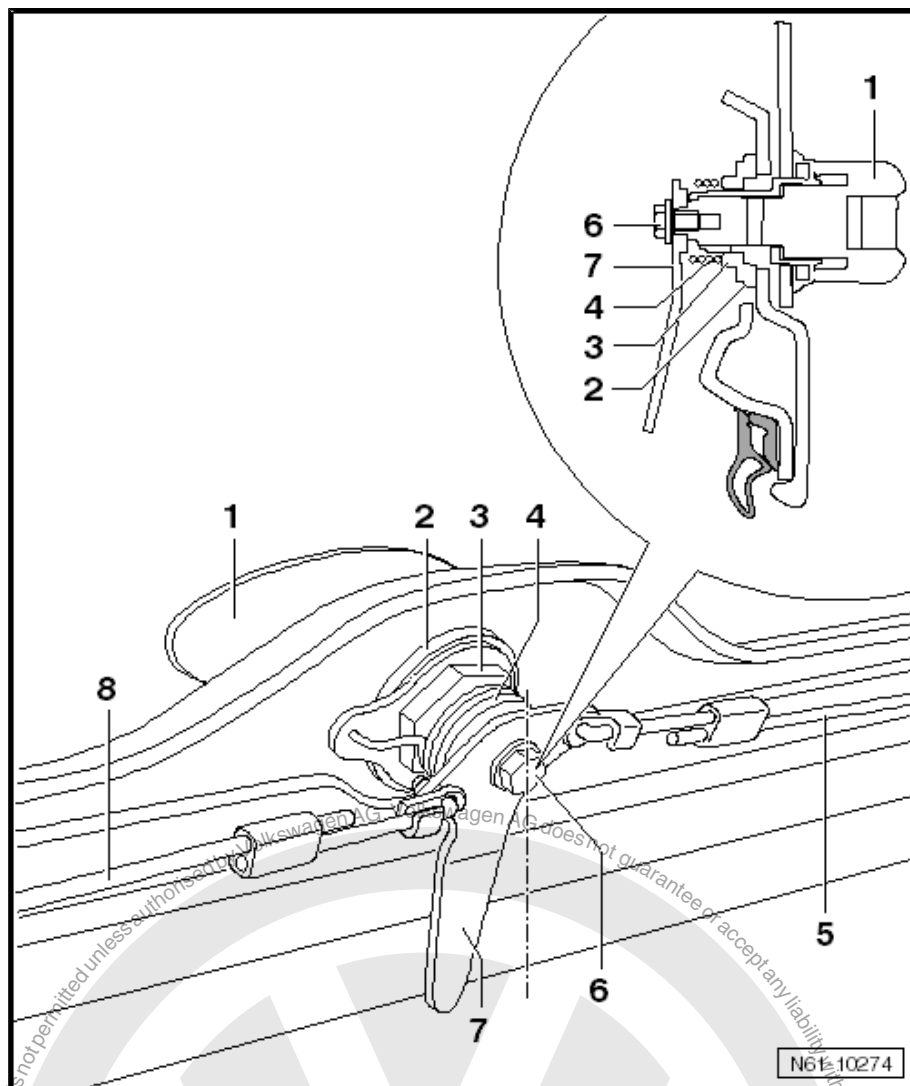
### 6 - Bolt

- ❑ Specified torque:  $8 \text{ Nm} + 90^\circ$

### 7 - Interior opening mechanism

### 8 - Pull rods

- ❑ Right to lock







## 2.5 Assembly overview - gas strut bracket



### Note

Assembly overview is described only for the left side. Assembly overview of right side is analogous.

#### 1 - Bracket, gas strut bottom

- ❑ Removing and installing  
⇒ [page 185](#)

#### 2 - Hexagon nut

- ❑ Qty. 2
- ❑ Specified torques:  $10 \pm 1.5$  Nm.

#### 3 - Striker

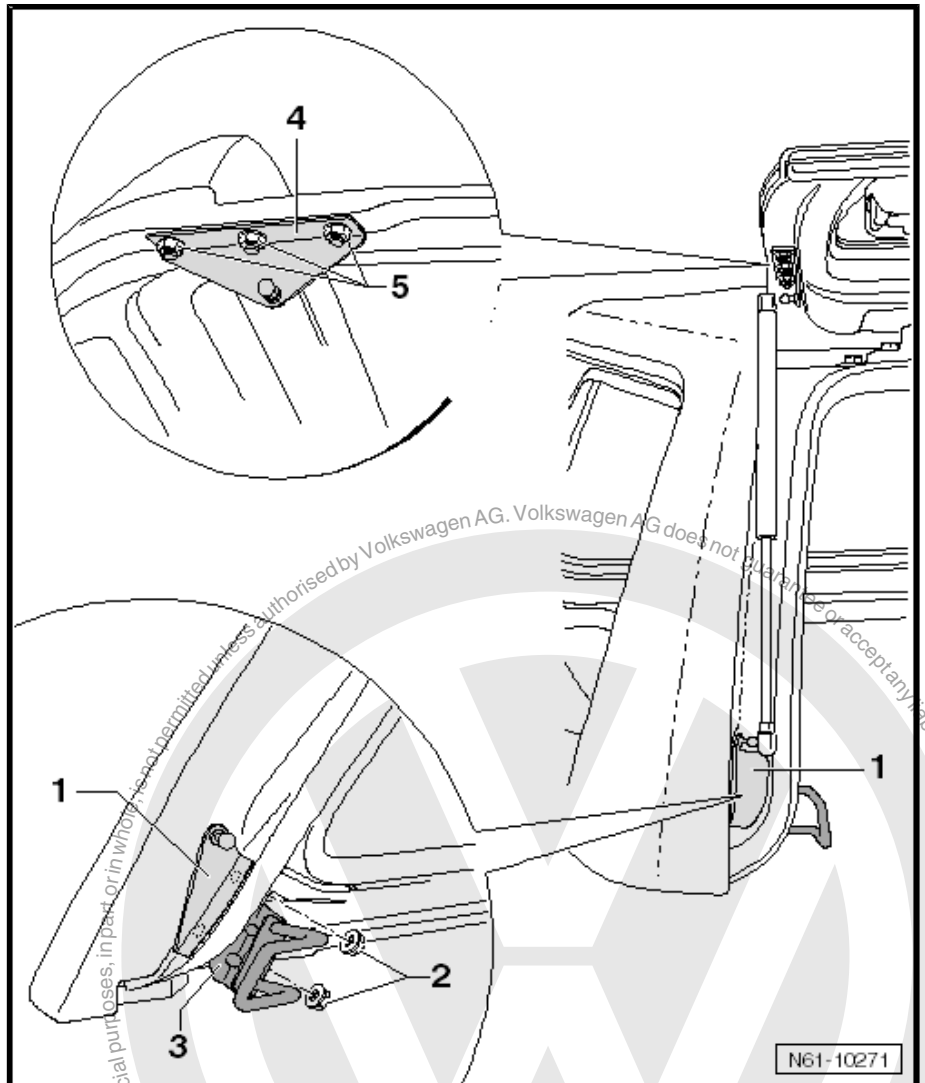
- ❑ Removing and installing  
⇒ [page 187](#)

#### 4 - Bracket, gas strut top

- ❑ Removing and installing  
⇒ [page 185](#)

#### 5 - Hexagon nut

- ❑ Qty. 3
- ❑ Specified torques:  $10 \pm 1.5$  Nm.







## 2.6 Assembly overview - striker for lid



### Note

Assembly overview is described only for the left side. Assembly overview of right side is analogous.

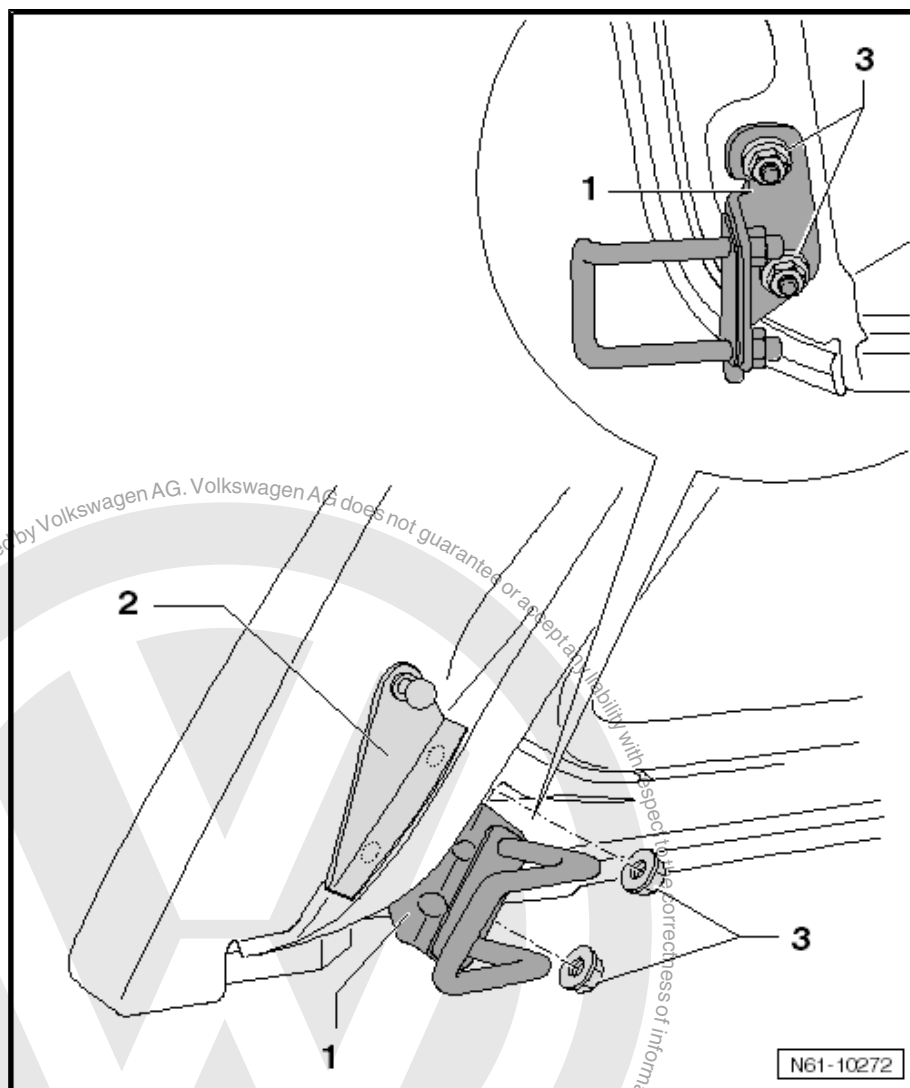
#### 1 - Striker, lid

- Left and right
- Removing and installing  
⇒ [page 187](#)

#### 2 - Bracket, gas strut bottom

#### 3 - Hexagon nut

- Qty. 2
- Specified torques:  $10 \pm 1.5$  Nm.



## 2.7 Removing and installing hardtop lid

Special tools and workshop equipment required





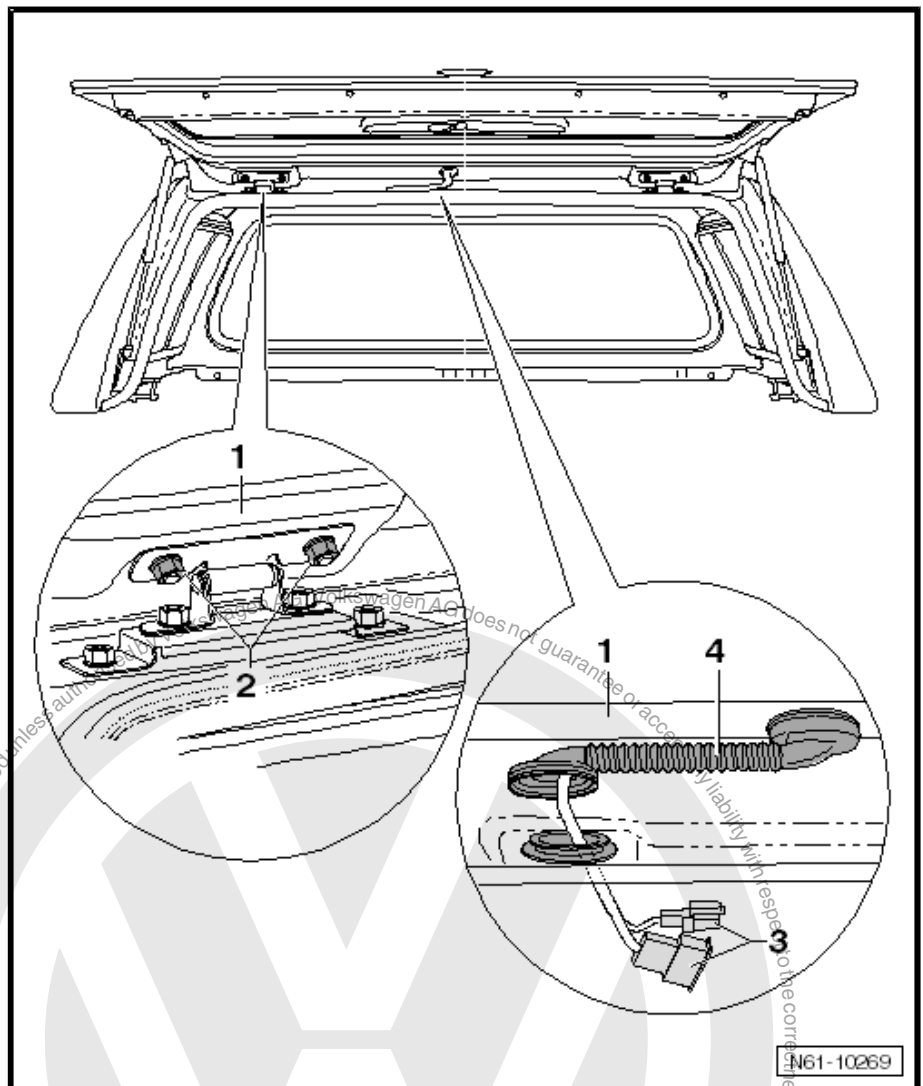


◆ Torque wrench -V.A.G 1331-

V.A.G 1331



W00-0427



**Removing**

- Remove hardtop top panel ➔ [page 211](#)
- Unplug electrical connectors -3-.
- Release cable cover -4- from cable grommet.
- Feed cable through opening in cable grommet.
- Loosen hexagon nuts -2- on left and right hinges (do not remove).





Further dismantling requires the help of a second mechanic.

- Remove gas strut ⇒ [page 189](#) .
- Only now remove hexagon nuts -2- and lift lid -1- off hinges.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:

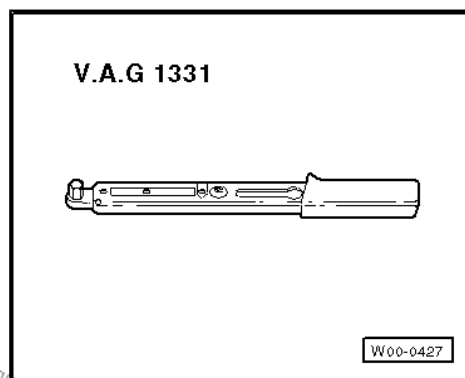
### Specified torques

Component	Specified torque
Hinge	$10 \pm 1.5 \text{ Nm}$

## 2.8 Removing and installing hardtop lid hinge

### Special tools and workshop equipment required

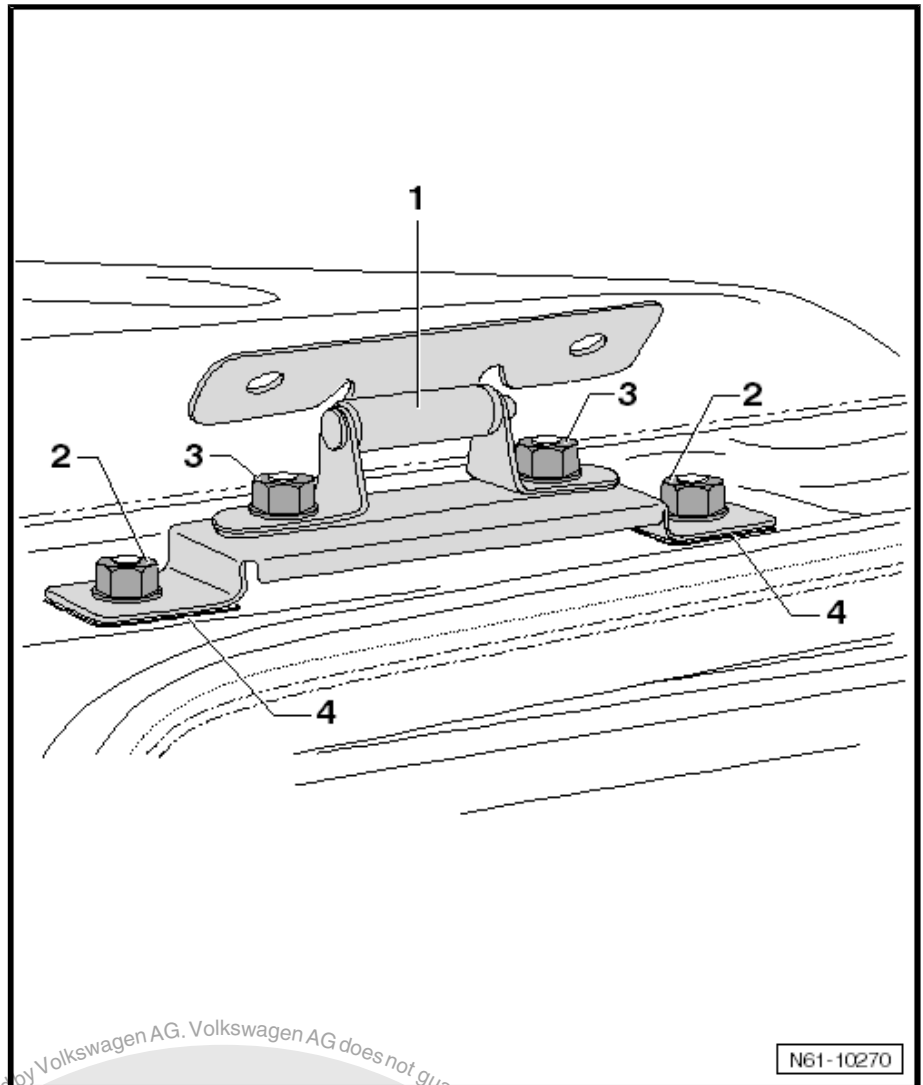
- ◆ Torque wrench -V.A.G 1331-



### Note

*Removal and installation are described for the right hinge only. Removal and installation of the left hinge are similar.*





### Removing

- Loosen hexagonal nuts -3- on hinge -1- (do not remove).

Have a second mechanic hold lid.

- Only now unscrew hexagon nuts -3- and remove hinges -1-.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:

### Specified torques

- ◆ ⇒ [“2.2 Assembly overview - hinge”, page 174](#)

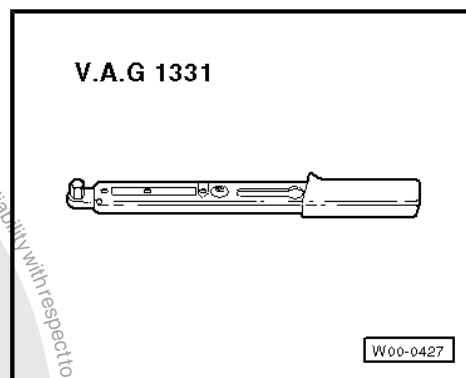
## 2.9 Removing and installing hardtop lid lock

Special tools and workshop equipment required



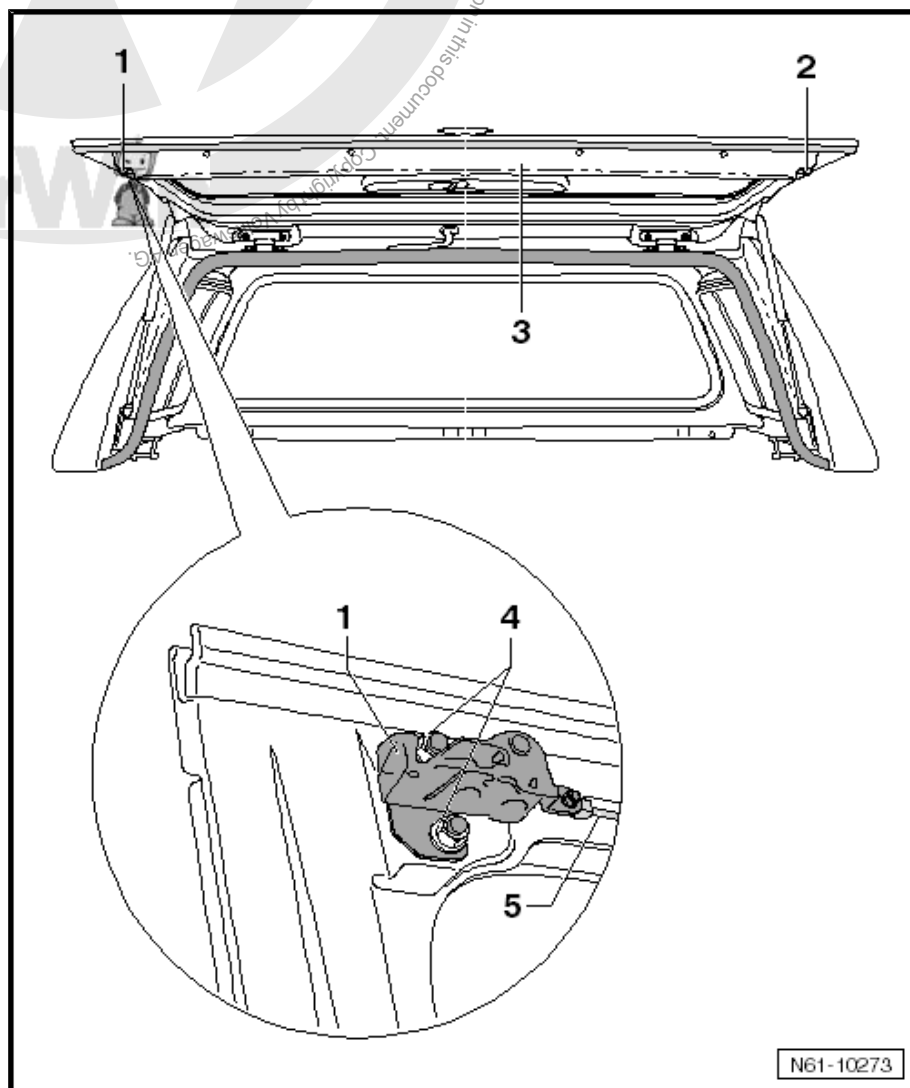


◆ Torque wrench -V.A.G 1331-



Note

The removal and installation sequence is only for the left lock -1-. The removal and installation of the right lock -2- is analogous.



Removing

- Remove lock cover -3- → [page 190](#) .





- Unclip pull rod -5- from lock -1-.
- Unscrew hexagon nuts -4- and remove lock -1-.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:

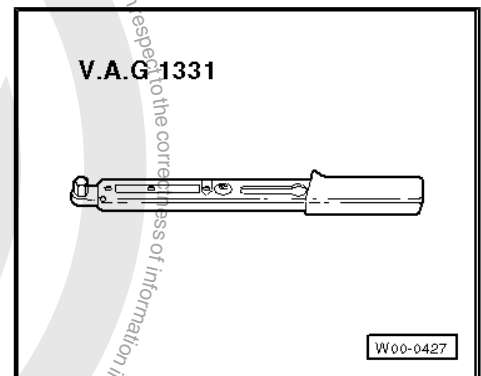
### Specified torques

- ◆ ⇒ ["2.3 Assembly overview - lid lock", page 175](#)

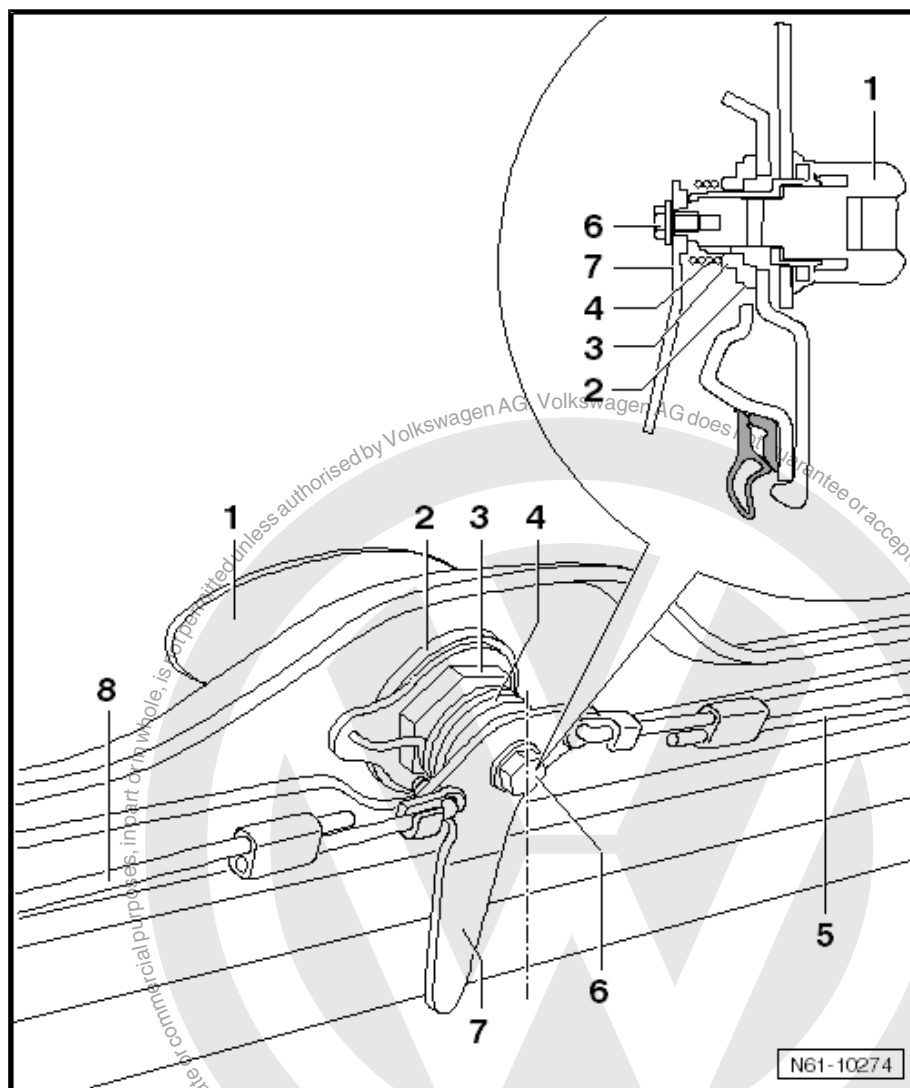
## 2.10 Removing and installing hardtop lid handle

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-







### Removing

- Unclip pull rods -5- and -8- from interior opening mechanism -7-.
- Remove bolt -6-.
- Remove interior opening mechanism -7-, spring hanger and spring -4-.
- Unscrew hexagon nut -3- and remove handle -1- with seal -2-.

### Installing

- Insert handle -1- with base plate through rear window opening.
- Locate seal -2- and fasten with hexagon nut -3-.
- Locate spring hanger and spring -4-.
- Fit interior opening mechanism -7- and fasten with bolt -6-.
- Clip pull rods -5- and -8- to interior opening mechanism -7-.
- Check system for smooth movement.

### Specified torques

- ♦ ⇒ [“2.4 Assembly overview - lid handle”, page 176](#)

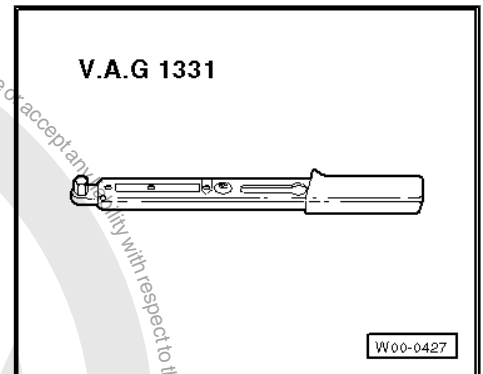




## 2.11 Removing and installing gas strut bracket

### Special tools and workshop equipment required

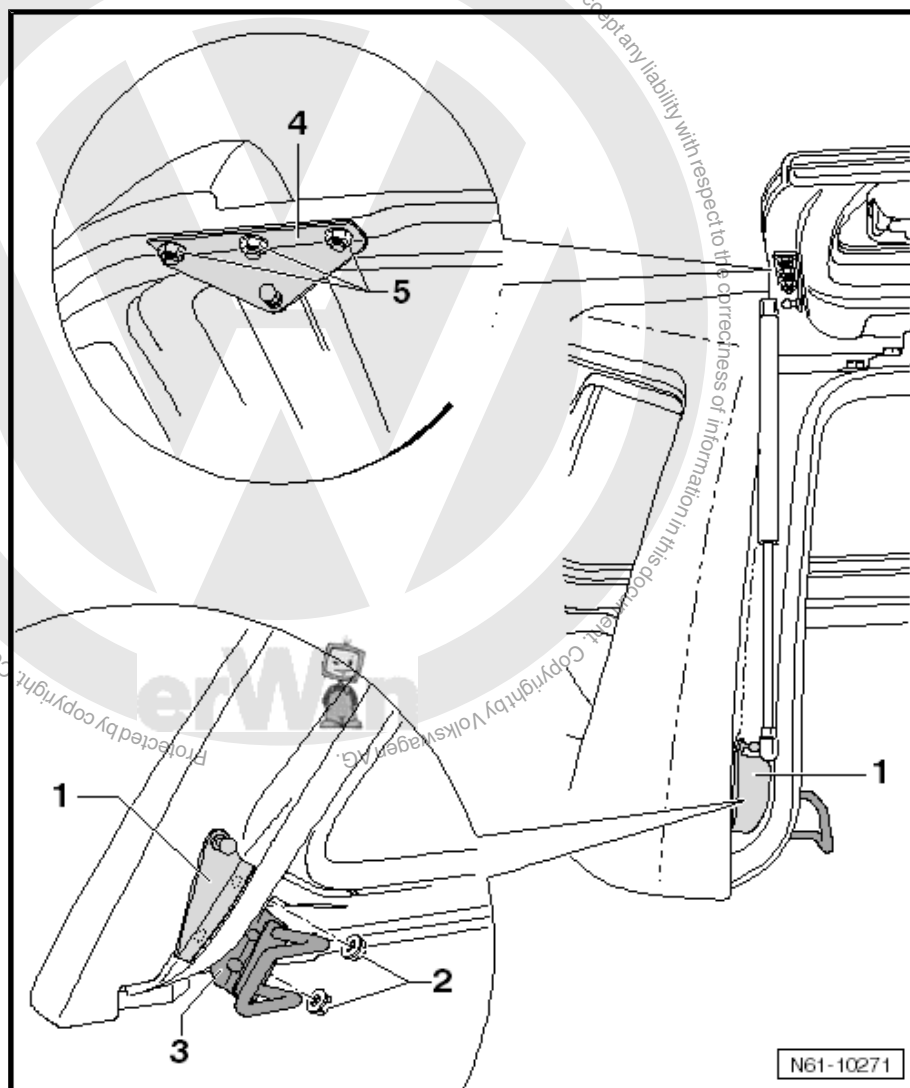
- ◆ Torque wrench -V.A.G 1331



### Note

*The removal and installation sequence is only for the left side. Removal and installation of the right side is similar.*





### Removing

- Remove left D-pillar trim ⇒ [page 215](#) .
- Remove gas strut ⇒ [page 189](#) .

### Bracket, gas strut bottom:

- Unscrew hexagon nuts -2- from striker -3-.
- Remove bottom gas strut bracket -1- and striker -3-.

### Bracket, gas strut top:

- Remove hexagon nuts -5-.
- Remove top gas strut bracket -4- from lid.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:

### Specified torques

- ◆ ⇒ [“2.5 Assembly overview - gas strut bracket”, page 177](#)

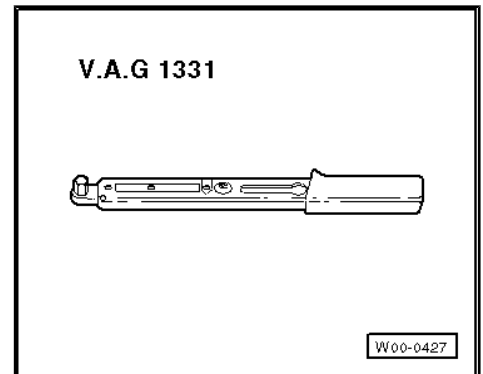




## 2.12 Removing and installing hardtop lid striker

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-

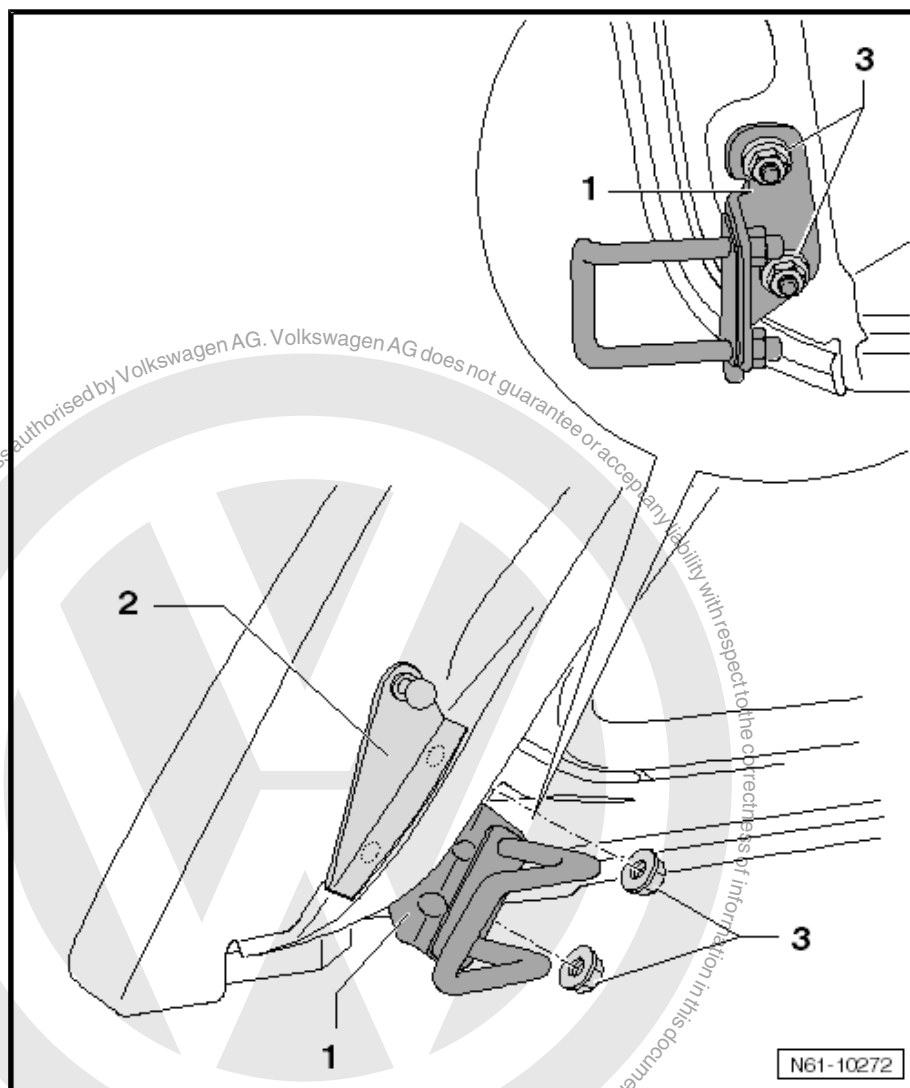


### Note

*The removal and installation sequence is only for the left side. Removal and installation of the right side is similar.*







### Removing

- Remove left D-pillar trim ⇒ [page 215](#) .
- Remove gas strut ⇒ [page 189](#) .
- Unscrew hexagon nuts -3- from striker -1-.
- Remove striker -1- and bottom gas strut bracket -2-.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:

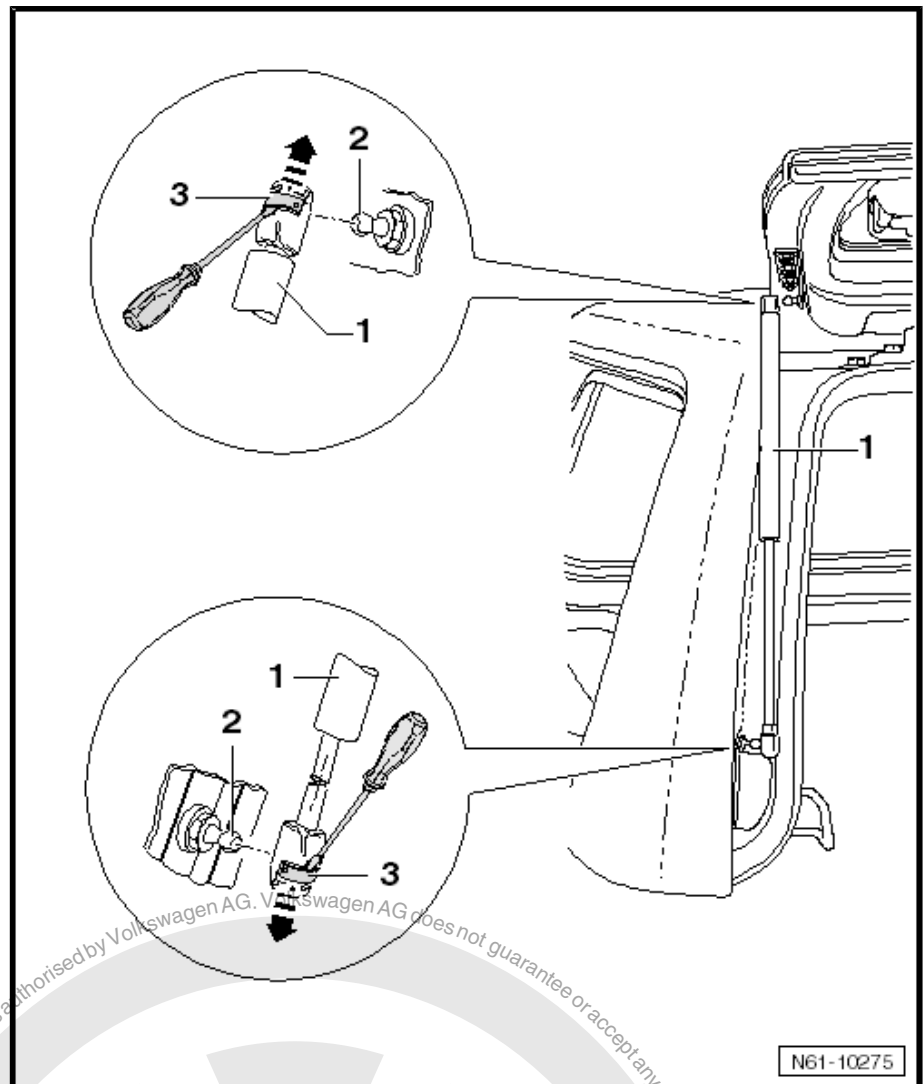
### Specified torques

- ♦ ⇒ [“2.6 Assembly overview - striker for lid”, page 178](#)





## 2.13 Removing gas strut



- Open lid.
- Insert a small screwdriver beneath spring clip -3-.
- Raise spring clip -3- until it can be moved over ball socket in direction of -arrow-.
- Pull gas strut -1- off ball-head pin -2-.

After removing gas strut -1-, slide spring clip -3- back immediately.



### WARNING

**Proceed with care if gas strut is reused. Spring clip must not be levered completely out of ball socket, as it will otherwise be damaged.**

**Gas strut will spring out of mounting, causing damage or injury to operator.**





## Releasing gas from gas strut



### WARNING

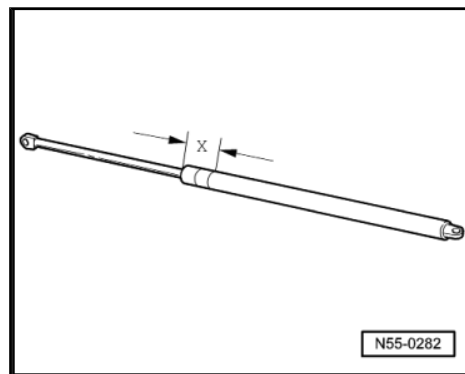
**Clamp gas strut only within area -x-; otherwise danger of accident!**

- Saw open strut cylinder in first third of total cylinder length, starting from the reference edge on the piston rod side.

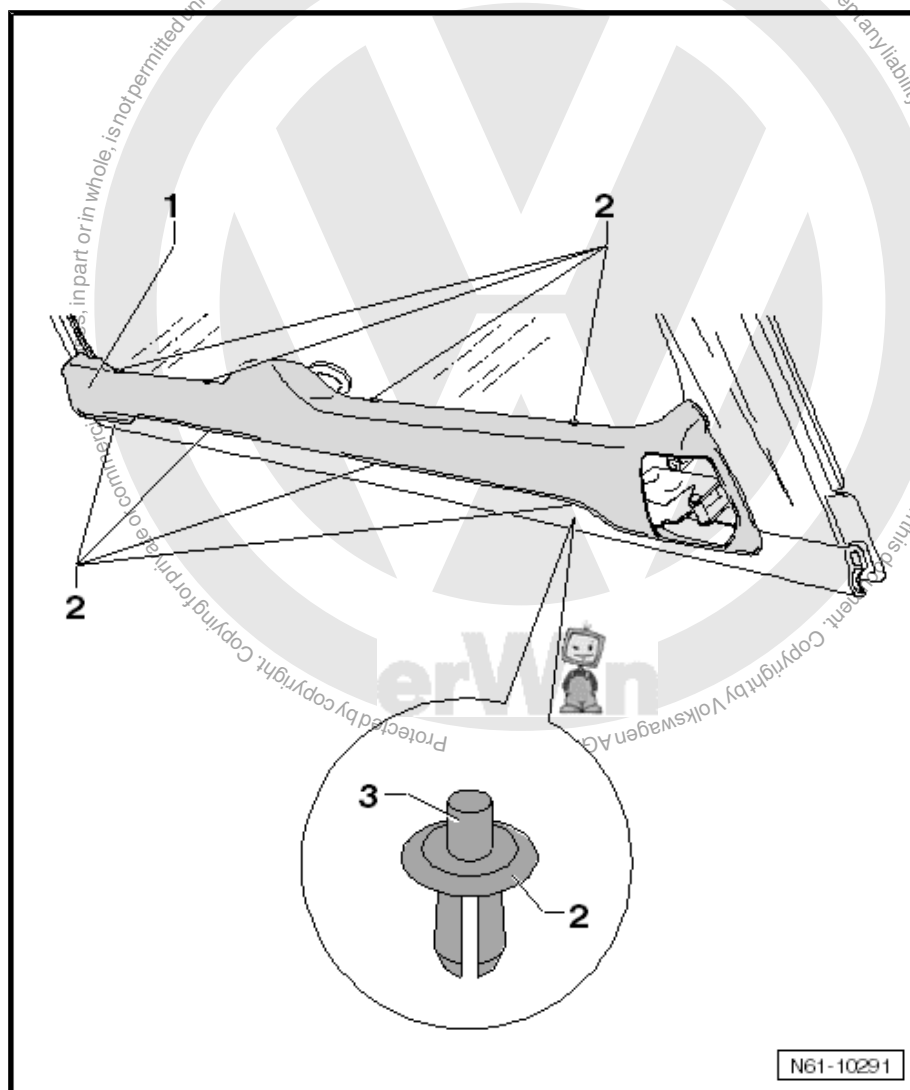


### Note

- ◆ Wear protective goggles when sawing.
- ◆ Cover area of separating cut with a cleaning cloth.
- ◆ Dispose of oil and cloth via existing disposal channels.



## 2.14 Removing and installing lock cover







## Removing

- Use small drift to press pin -3- inwards and unclip spreader rivets -2- (qty. 4 top and bottom).
- Remove lock cover -1- from lid.

## Installing

Installation is carried out in reverse order. When doing this, observe the following:



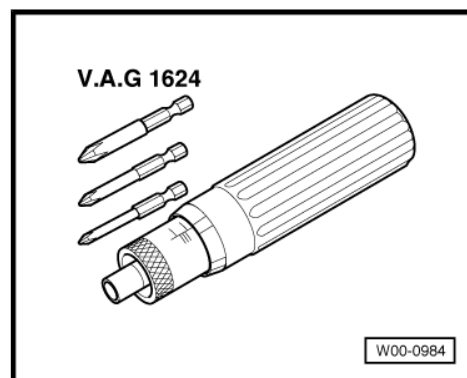
### Note

*Before installing, check fasteners for damage and renew if necessary.*

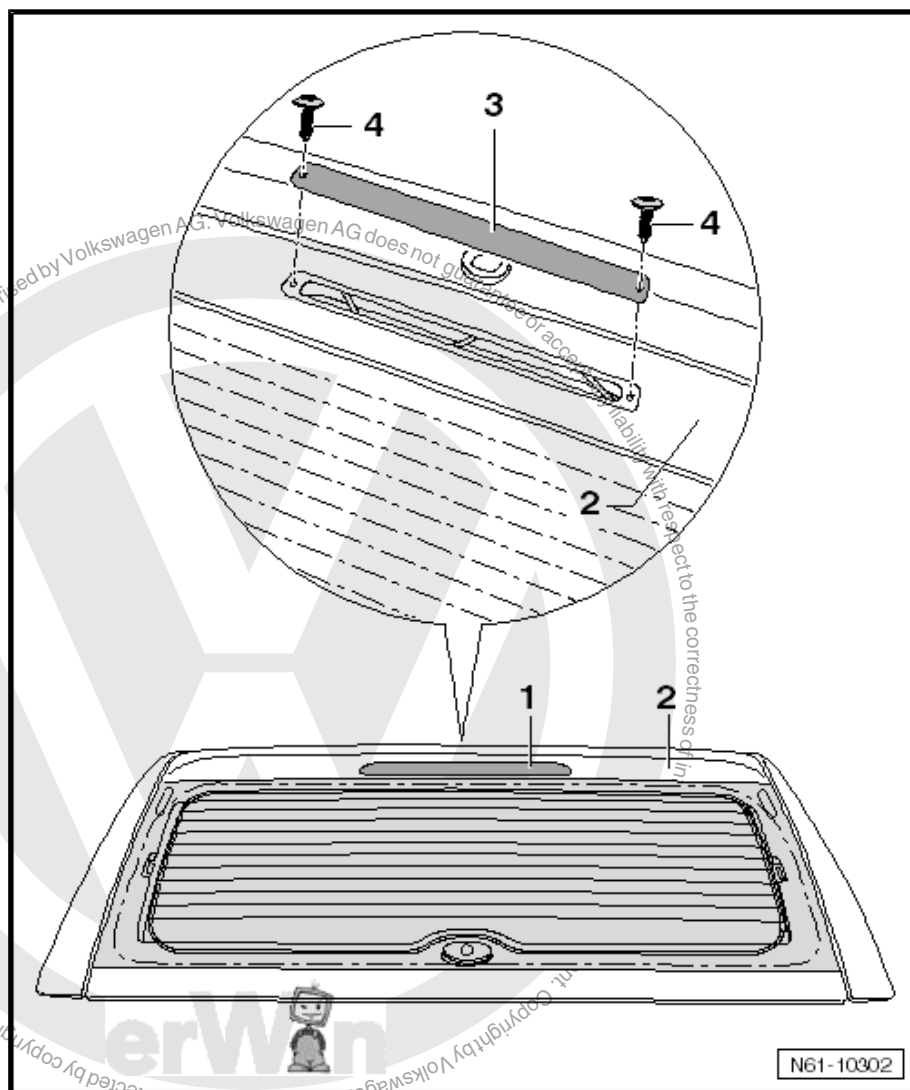
## 2.15 Removing and installing high-level brake light

### Special tools and workshop equipment required

- ◆ Torque screwdriver -V.A.G 1624-







### Removing

- Unscrew bolts -4- from inside and remove trim -3-.
- Mask painted area on lid -2- above high-level brake light -1- with commercially available masking tape to avoid damaging paintwork.
- Insert wedge -T10039/1- between upper edge of high-level brake light -1- and lid -2-.
- Press brake light down using wedge -T10039/1- and disengage upper lugs of brake light to rear.
- From inside lid -2- press through opening.
- Remove high-level brake light -1- to rear from lid opening -2-, taking due account of connected cable lengths.
- Disengage and unplug connector and remove high-level brake light -1-.





## Installing



### Note

*When installing high-level brake light -1-, ensure that seal is correctly seated. Seal must not be kinked or damaged.*

- Plug connector to high-level brake light -1-.
- Clip high-level brake light -1- back into rear lid -2-, starting at lower edge.

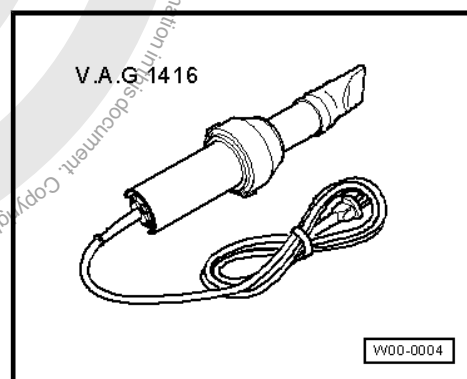
### Specified torques

Component	Specified torque
Trim	2.0 Nm

## 2.16 Hardtop lid seal

### Special tools and workshop equipment required

- ◆ Hot air blower -V.A.G 1416-



### Fitting notes

Heat up lid seal using hot air blower -V.A.G 1416- before removing.

If lid seal is removed and reattached, only use adhesive remover -D 002 000 10- to remove the adhesive residue.

Ensure that adhesive surfaces are free of dust and grease.

Lid seal must be bonded in place immediately after cleaning.

Remove backing only immediately before installation and then bond seal.

Working temperature is approx. 21°C.

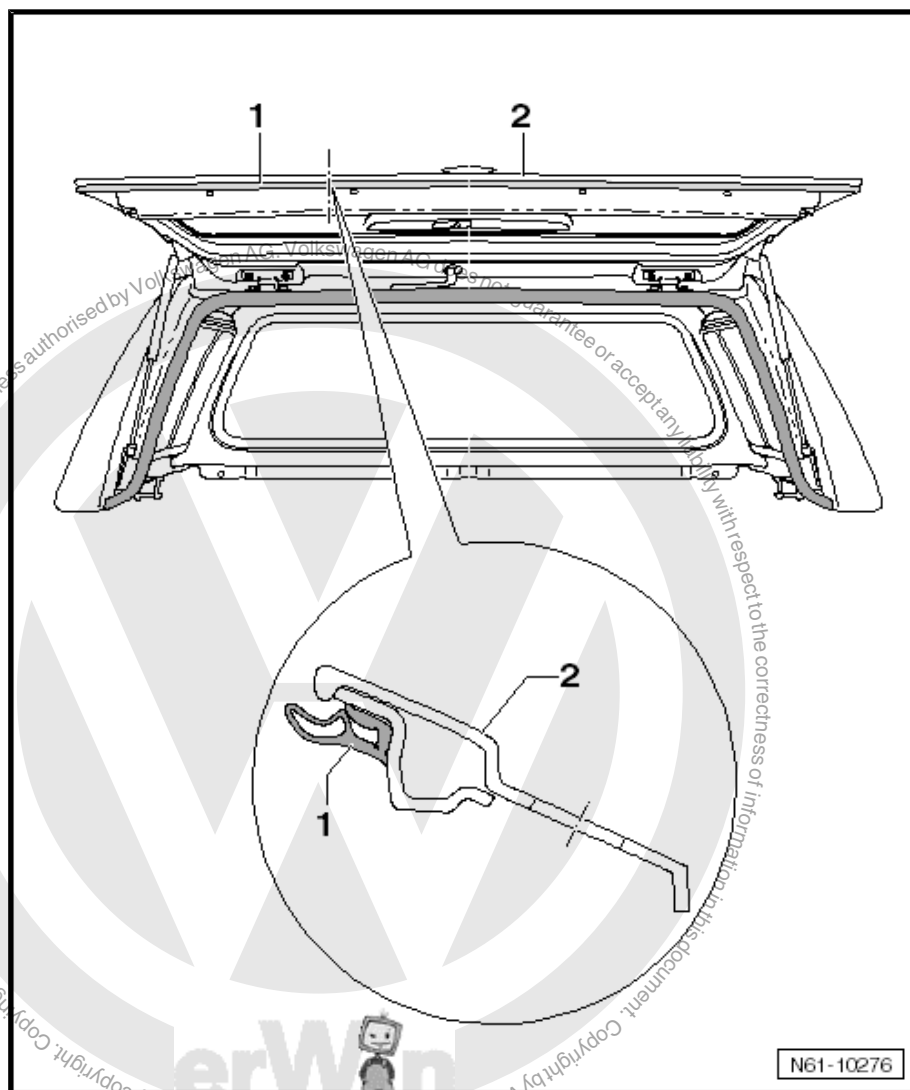
### Removing and installing hardtop lid seal



### Note

*Hardtop lid seal -1- cannot be removed without being damaged.*





### Removing

- Heat lid seal -1- with hot air blower -V.A.G 1416- before removing and then peel off from lid -2-.

### Installing

Follow installation instructions ⇒ [page 193](#) .





### 3 Tailgate

⇒ "3.1 Assembly overview - anchor", page 195

⇒ "3.2 Assembly overview - tailgate seals", page 196

⇒ "3.3 Removing and installing anchor", page 196

#### 3.1 Assembly overview - anchor



##### Note

Only the right side is shown. The left side is analogous.

##### 1 - Tailgate

- ☐ Removing and installing  
⇒ page 45

##### 2 - Anchor

- ☐ Right

##### 3 - Tailgate trim, rear

- ☐ Removing and installing  
⇒ General body repairs,  
interior; Rep. gr. 70  
Removing and installing  
tailgate trim

##### 4 - Anchor

- ☐ Left

##### 5 - Base plate

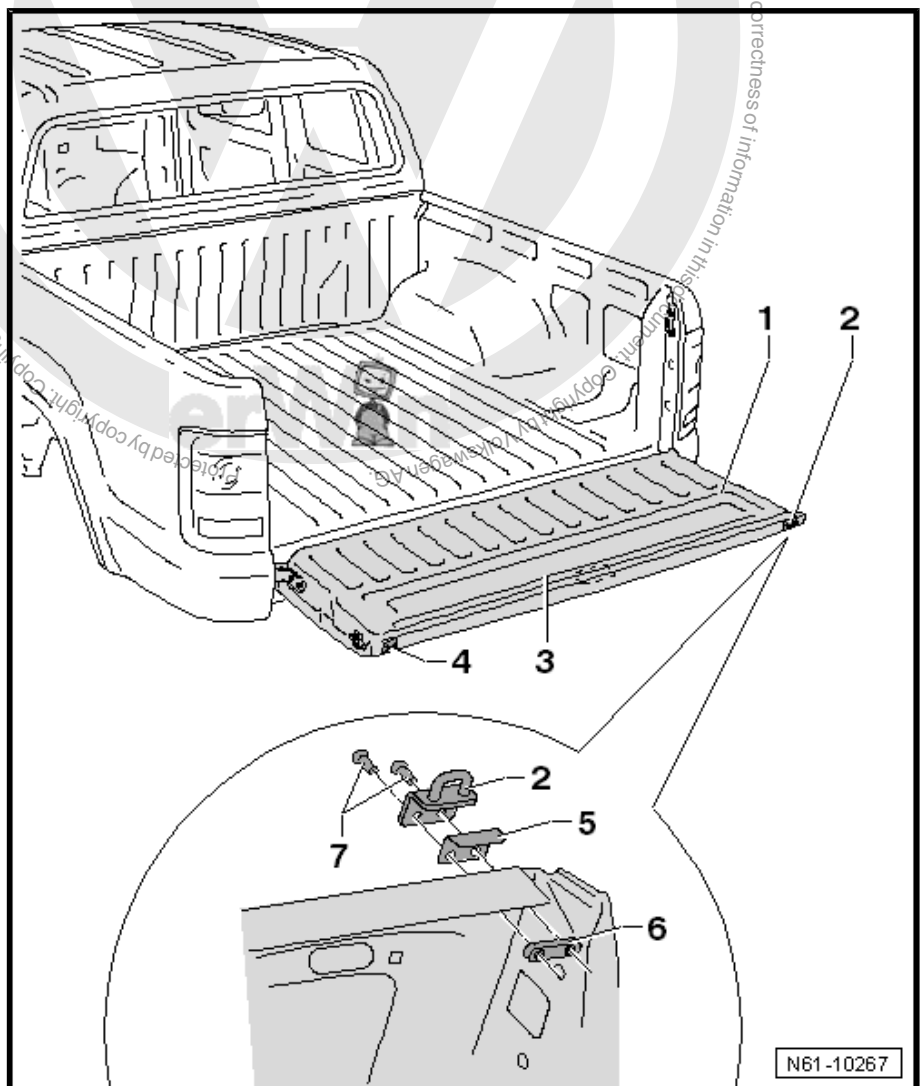
- ☐ Right and left

##### 6 - Threaded plate

- ☐ Right and left

##### 7 - Bolt

- ☐ Qty. 2 on each side
- ☐ Specified torque:  
8.0 ± 1.2 Nm







### 3.2 Assembly overview - tailgate seals

#### 1 - Left seal

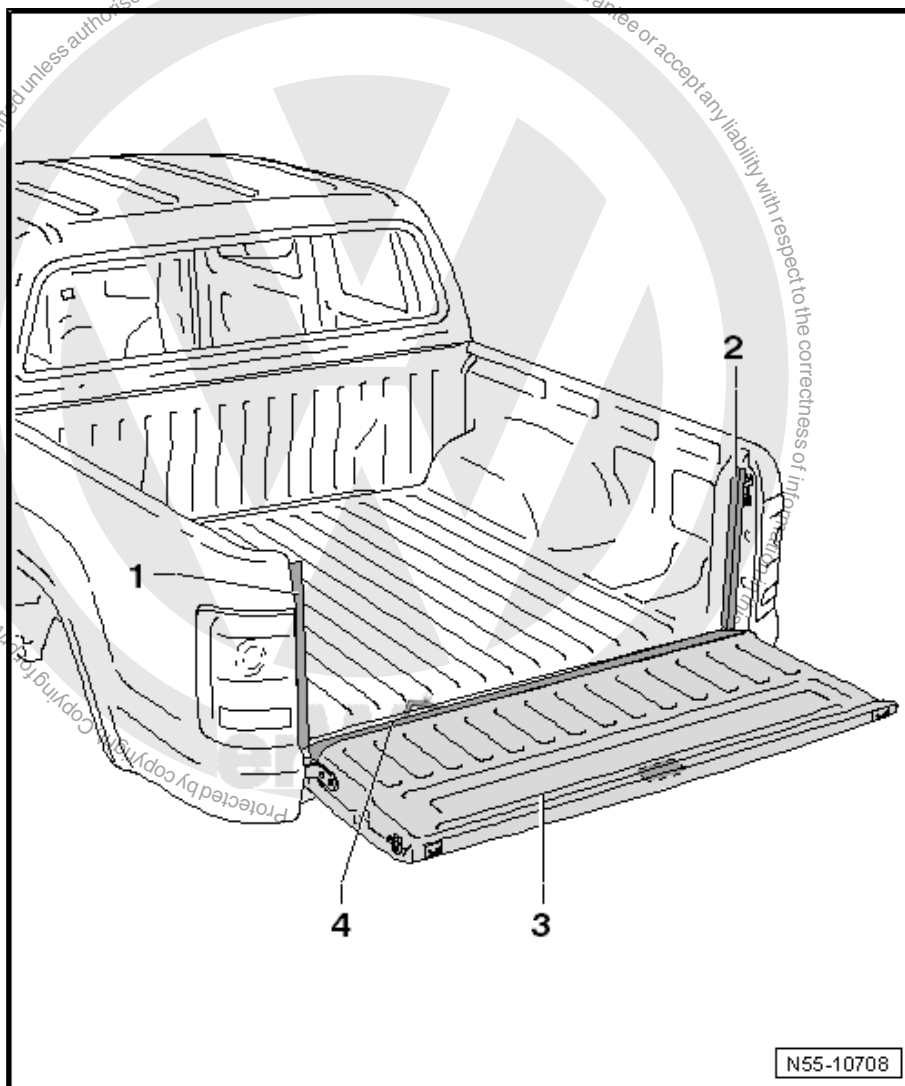
- ❑ Pushed onto edge of load bed

#### 2 - Right seal

- ❑ Pushed onto edge of load bed

#### 3 - Tailgate seal

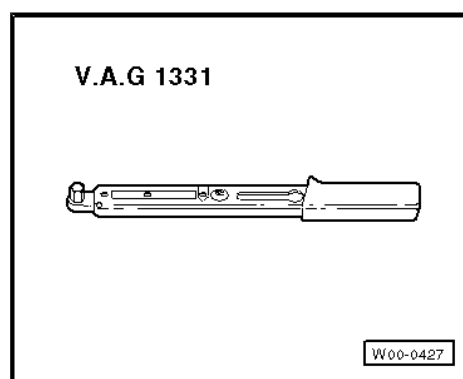
- ❑ Bonded on lower edge of tailgate



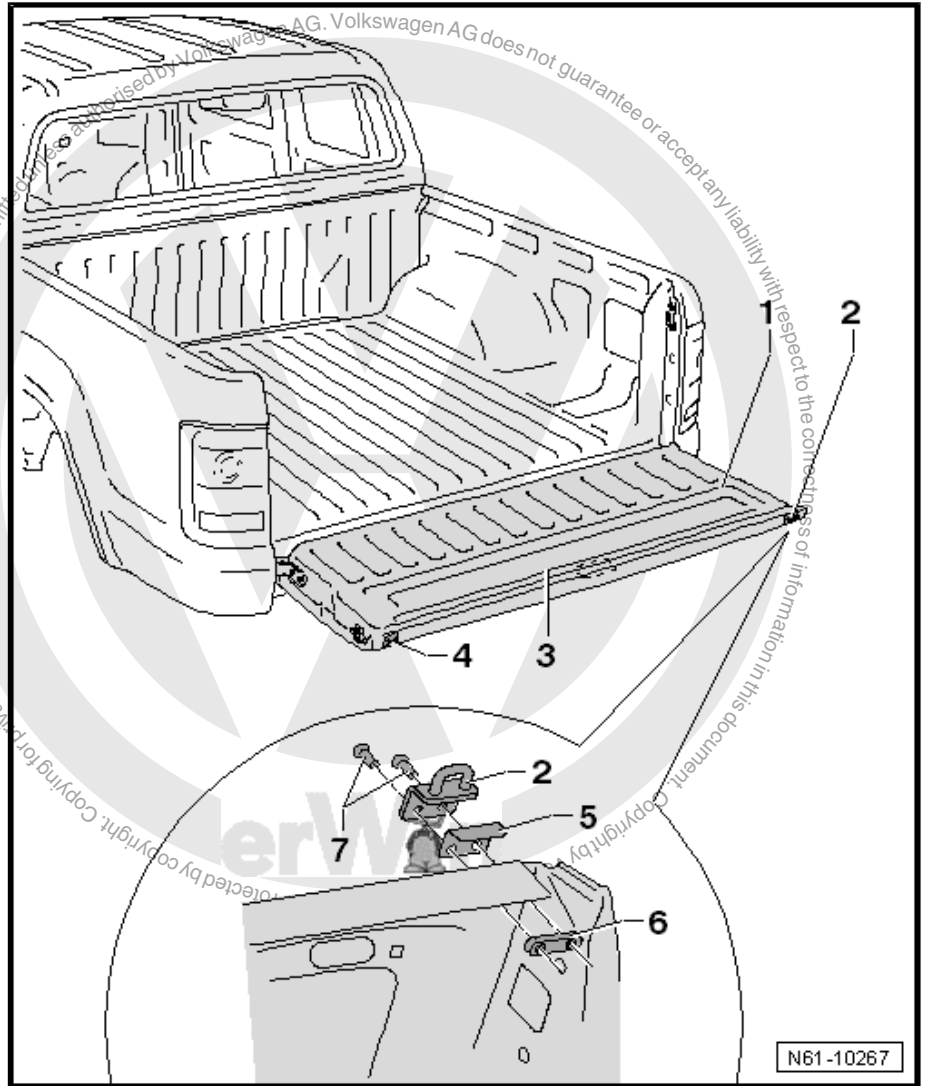
### 3.3 Removing and installing anchor

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-







### Removing

- Remove tailgate trim -3- ⇒ General body repairs, interior; Rep. gr. 70 ; Removing and installing tailgate trim .
- Unscrew bolts -7- and remove anchor -2- with base plate -5-.
- Pass threaded plate -6- out through tailgate opening -1-.

### Installing

- Pass threaded plate -6- in through tailgate opening -1-.
- Bolt base plate -5- and anchor -2- in place.
- Install rear tailgate trim -3-.

### Specified torques

- ◆ ⇒ [“3.1 Assembly overview - anchor”, page 195](#)





## 4 Glazing

⇒ [“4.1 Assembly overview - glazing”, page 198](#)

⇒ [“4.2 Assembly overview - rear window”, page 199](#)

⇒ [“4.3 Removing and installing rear window”, page 199](#)

⇒ [“4.4 Removing and installing sliding window”, page 206](#)

⇒ [“4.5 Removing and installing front sliding window”, page 207](#)

### 4.1 Assembly overview - glazing

#### 1 - Hardtop

- ☐ Removing and installing  
⇒ [page 161](#)

#### 2 - Right-hand sliding window

- ☐ Removing and installing  
⇒ [page 206](#)

#### 3 - Rear window

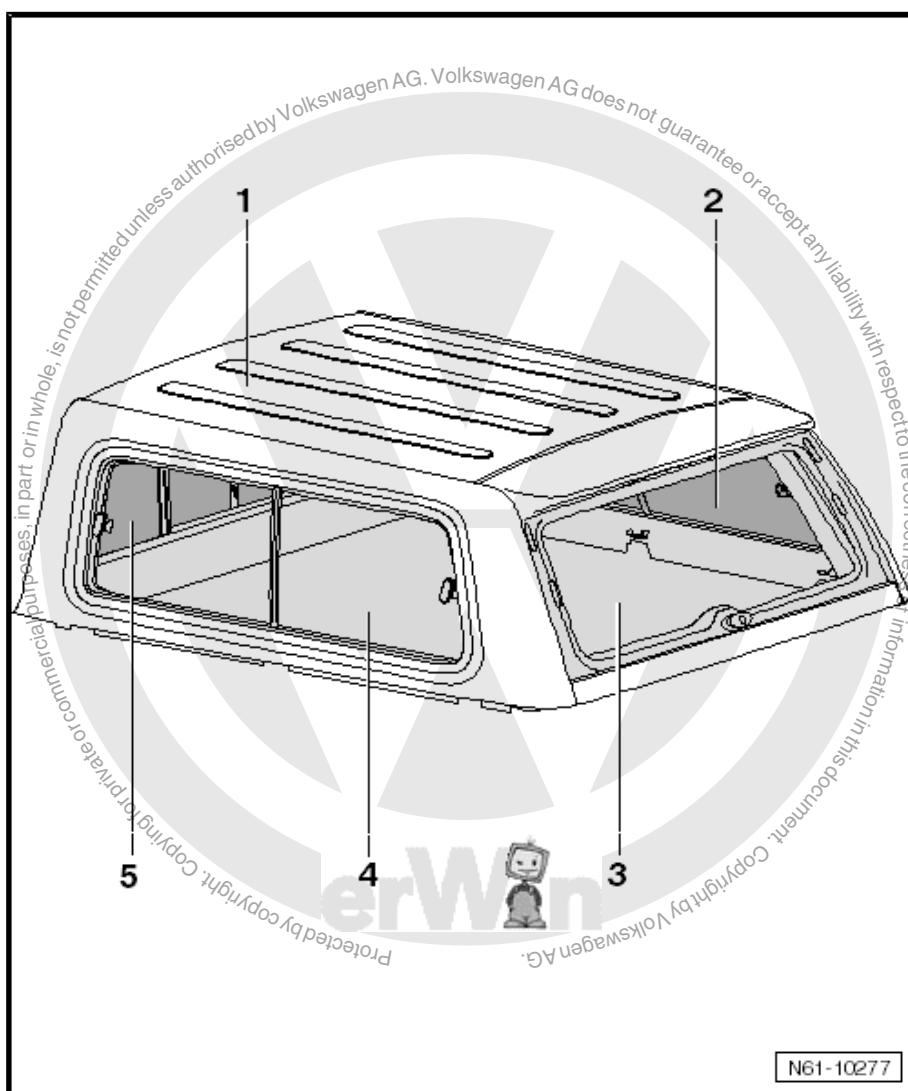
- ☐ Removing and installing  
⇒ [page 199](#)

#### 4 - Left-hand sliding window

- ☐ Removing and installing  
⇒ [page 206](#)

#### 5 - Front sliding window

- ☐ Removing and installing  
⇒ [page 207](#)



N61-10277





## 4.2 Assembly overview - rear window

### 1 - Rear window

### 2 - Connection for heated rear window

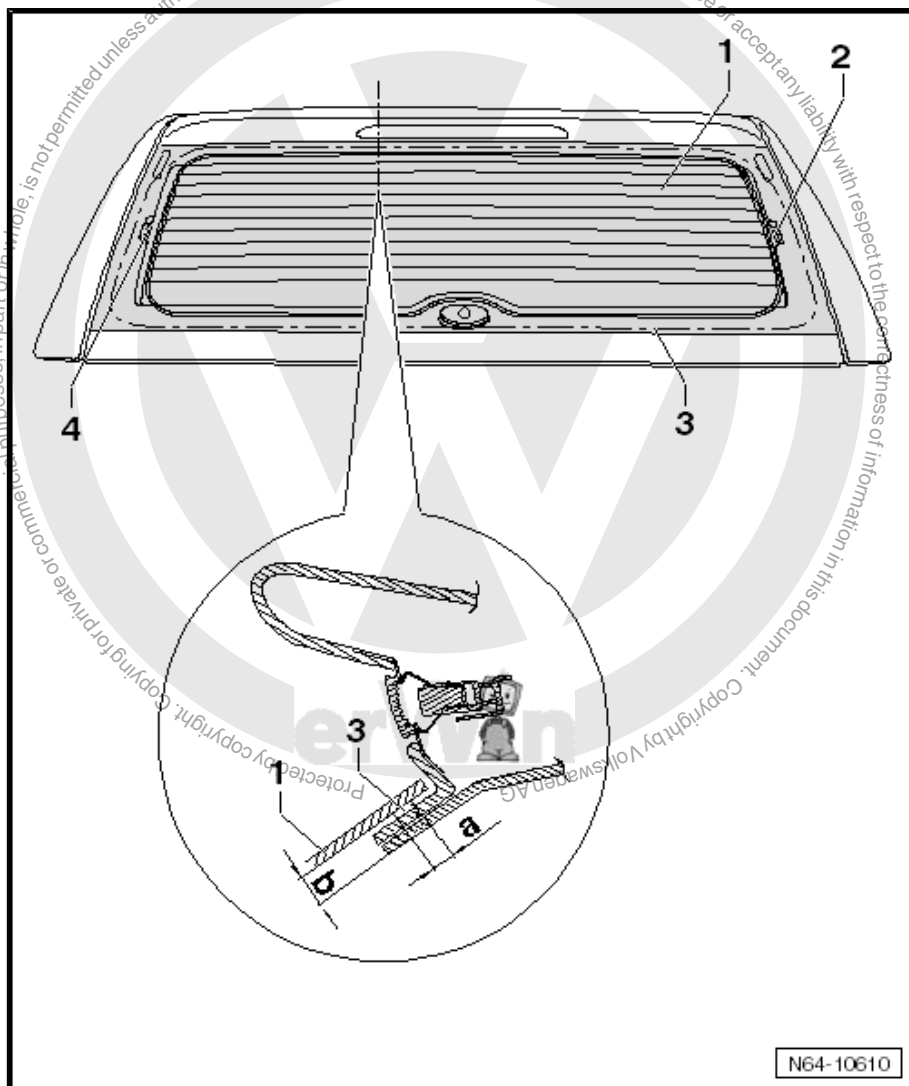
- ☐ Right

### 3 - PUR adhesive sealant

- ☐ Adhesive bead cross-section: -width- = 6.5 mm; -height- = 10 mm
- ☐ The adhesive bead is butted up against the side edge of the window.
- ☐ Minimum curing period  
⇒ [page 254](#).

### 4 - Connection for heated rear window

- ☐ Left.



N64-10610

## 4.3 Removing and installing rear window



### Note

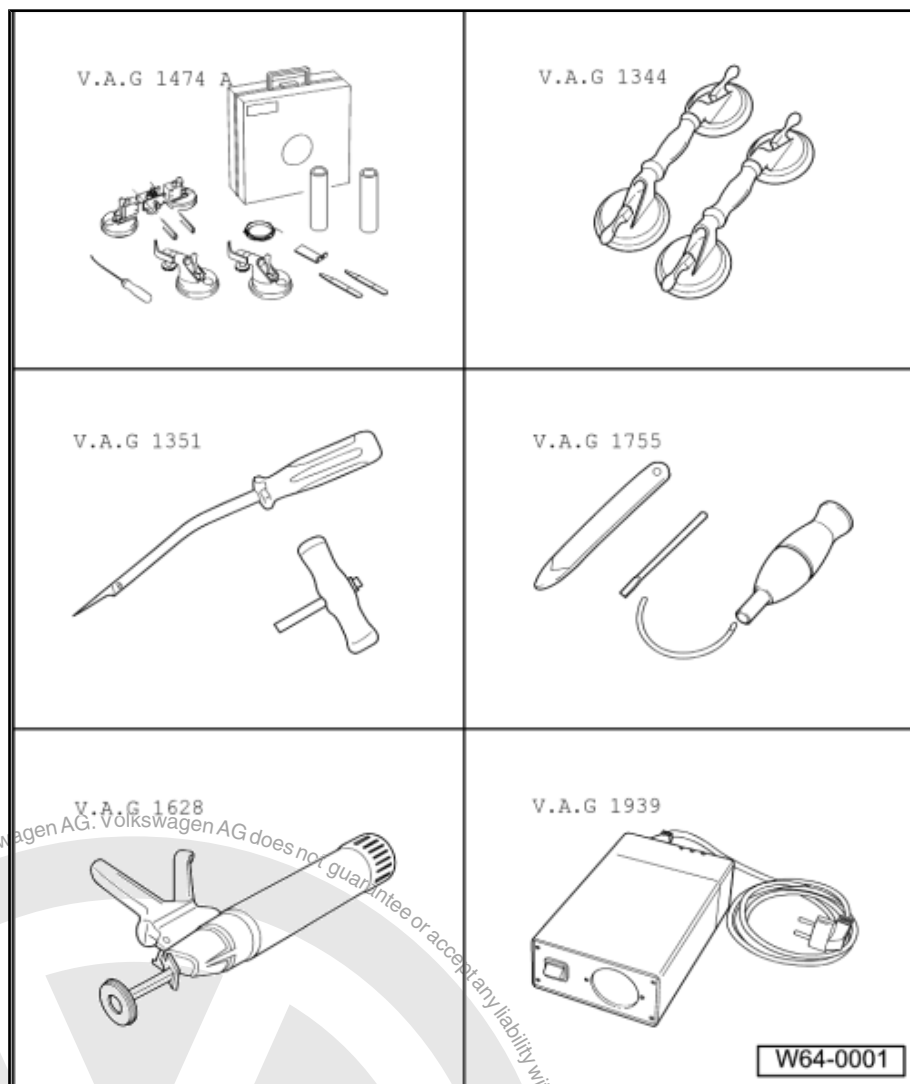
The removal of a bonded window is described using the Removal kit for flush bonded windows -V.A.G 1474 A-. The respective tools from Removal kit for flush bonded windows -VAS 6452- may also be used.





### Special tools and workshop equipment required

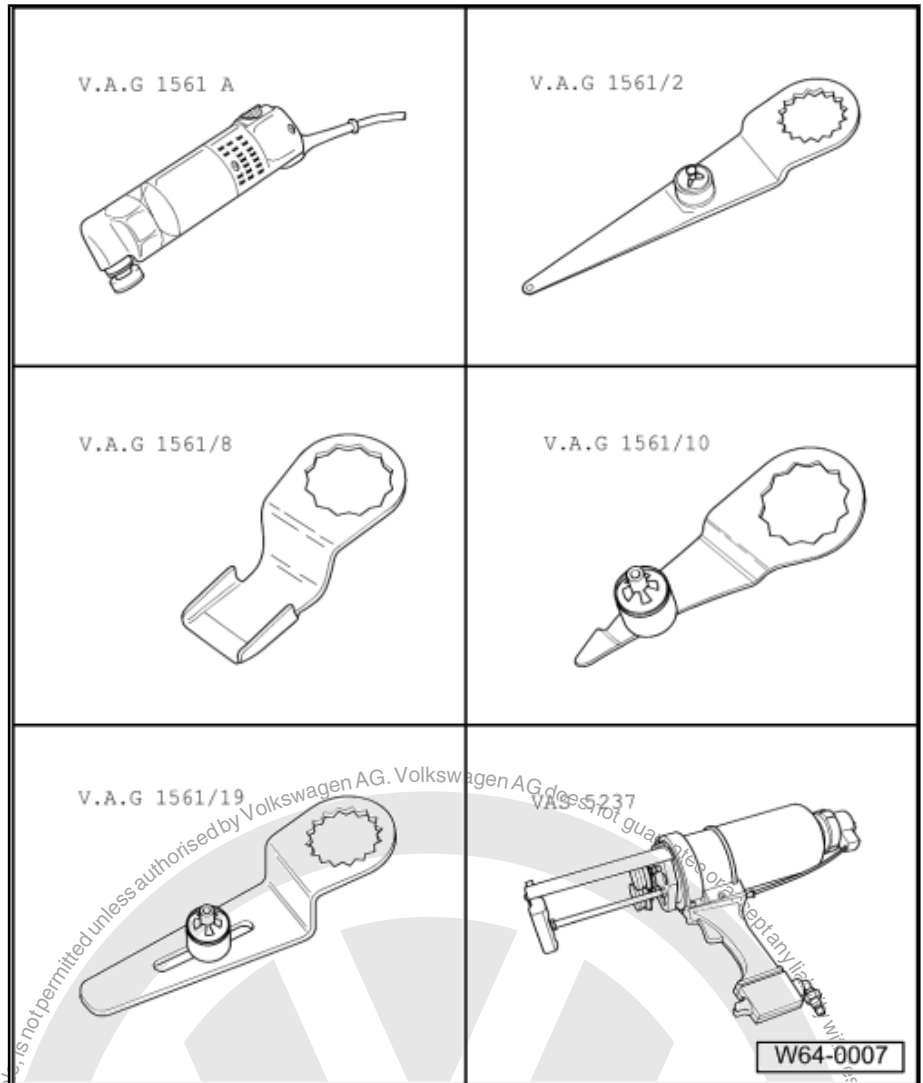
- ◆ Removal kit for flush bonded windows - V.A.G 1474 A-
- ◆ Suction lifter -V.A.G 1344-
- ◆ Cutting tool -V.A.G 1351-
- ◆ Windscreen removal kit - V.A.G 1755-
- ◆ Cartridge gun -V.A.G 1628-
- ◆ Cartridge heater - V.A.G 1939-





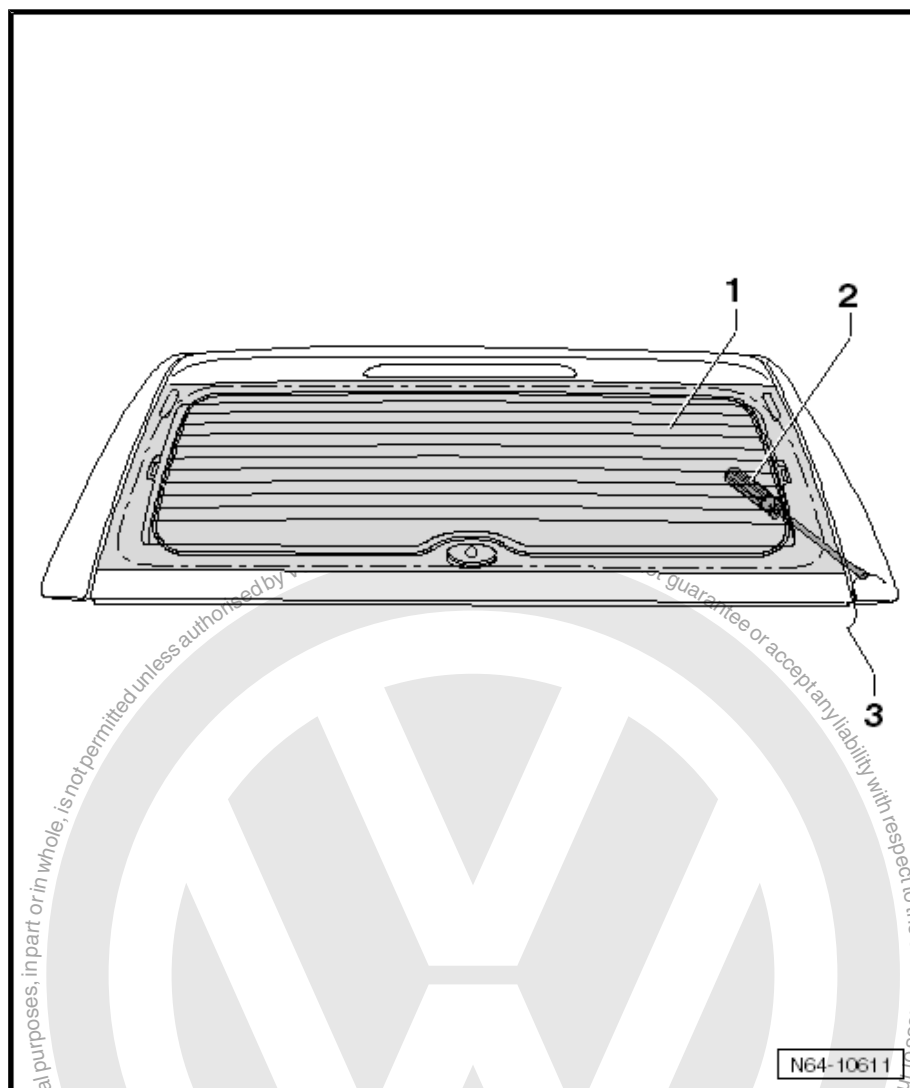


- ◆ Electric cutter - V.A.G 1561 A-
- ◆ Cutting blade - V.A.G 1561/2-
- ◆ Scraping blade - V.A.G 1561/8-
- ◆ Cutting blade - V.A.G 1561/10-
- ◆ Cutting blade - V.A.G 1561/19-
- ◆ Double cartridge gun - VAS 5237-



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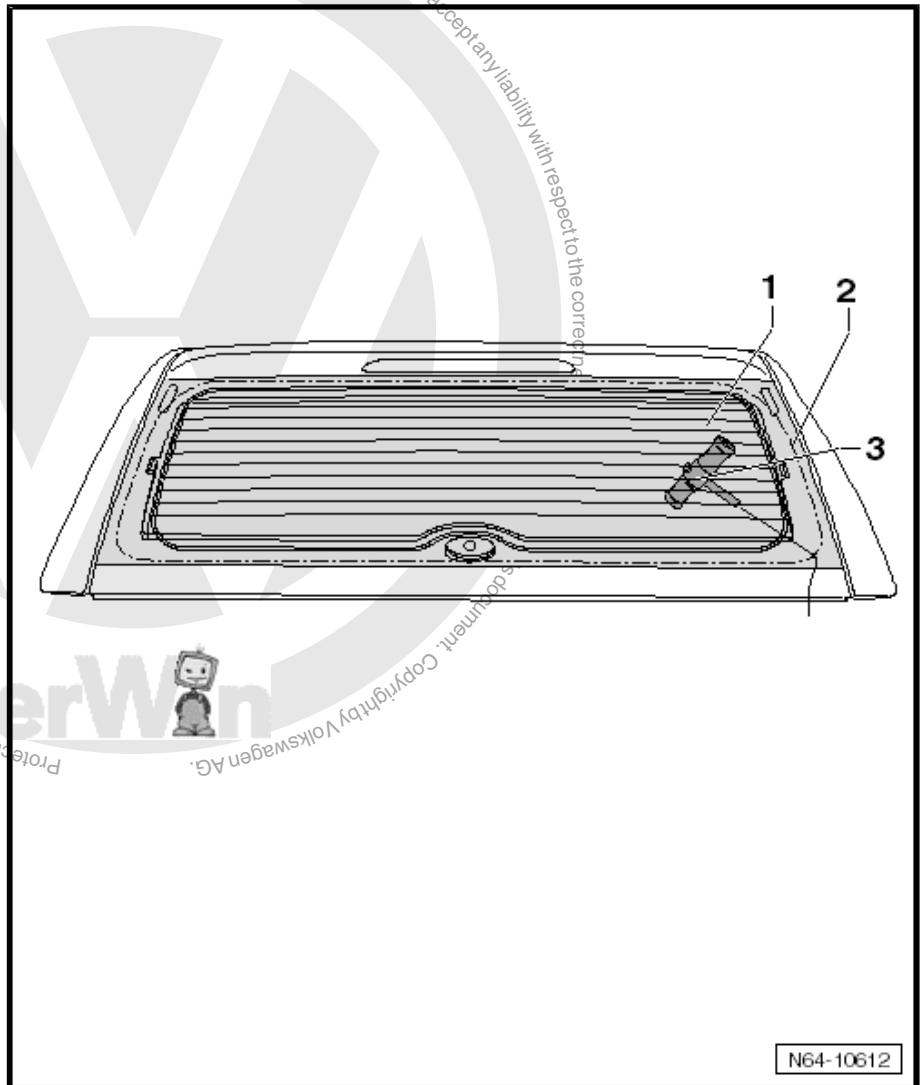




### Removing

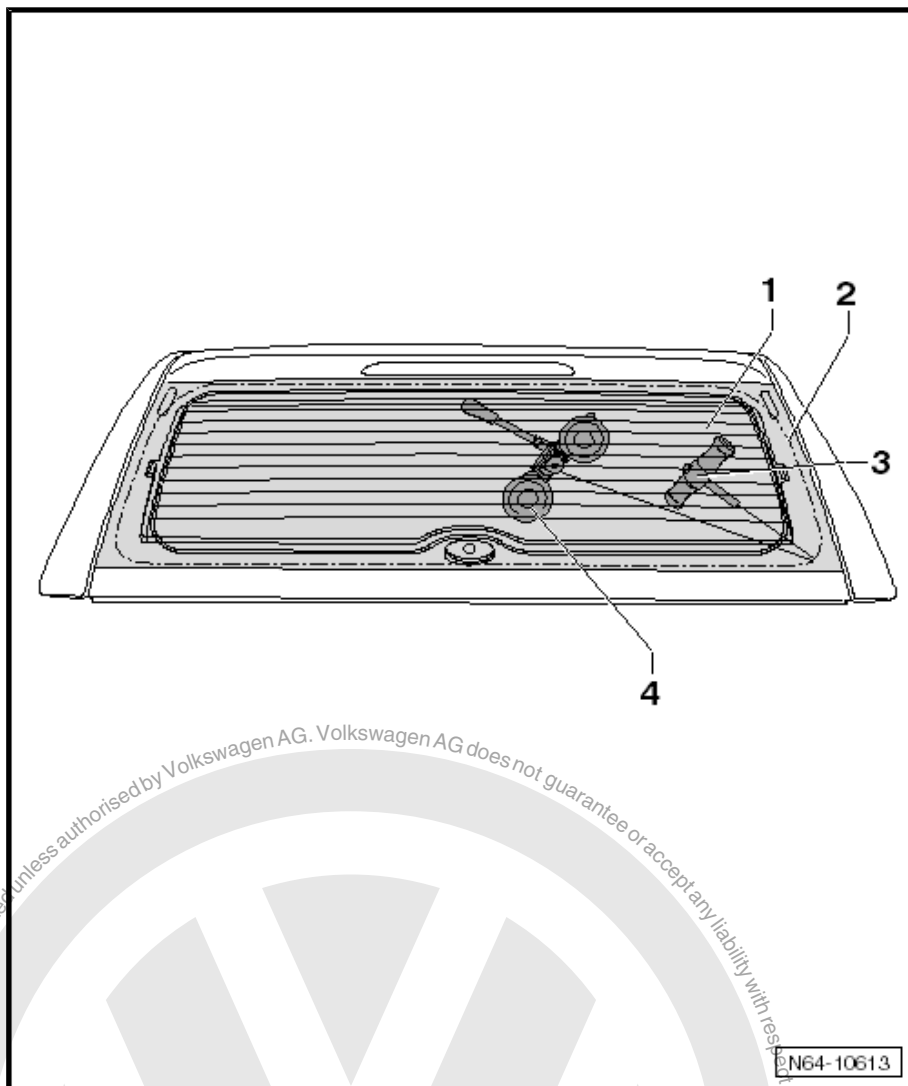
- Pull cutting cord end -3- through adhesive sealing material of rear window -1- to inside using awl -2-.





- From inside, prevent end of cutting cord -2- from being pulled out by attaching it to pull handle -V.A.G 1351/1- -3-.
  - Place cutting cord -2- around rear window -1-.
- Ensure that cutting cord -2- lies under window in corners.





- Secure other end of cord to reel device -V.A.G 1654 A- -4-.
- Cut rear window -1- free by appropriate movement of reel device -V.A.G 1654 - and counterhold using pull handle -V.A.G 1351/1- -3-.
- Use wedge -V.A.G 1474/5- to press cutting cord -2- against rear window -1- while cutting to ensure clearance at window flange.

Have a second mechanic hold rear window -1-.

#### Removing broken rear window

- Protect body and interior from glass splinters.
- Remove pieces of glass up to adhesive sealing material.
- Pull off connections for rear window heating and aerial.



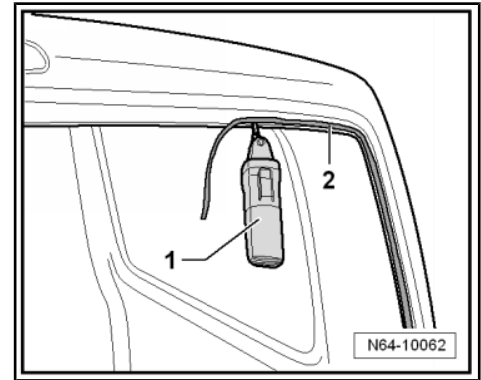


- Cover flange -2- all round with textile-reinforced adhesive tape.
- Cut through adhesive seal (with pieces of glass) in window aperture using electric cutter -V.A.G 1561 A- -1- and U-shaped blade -V.A.G 1561- .



**WARNING**

*Always wear safety goggles and leather gloves.*



**Installing rear window**

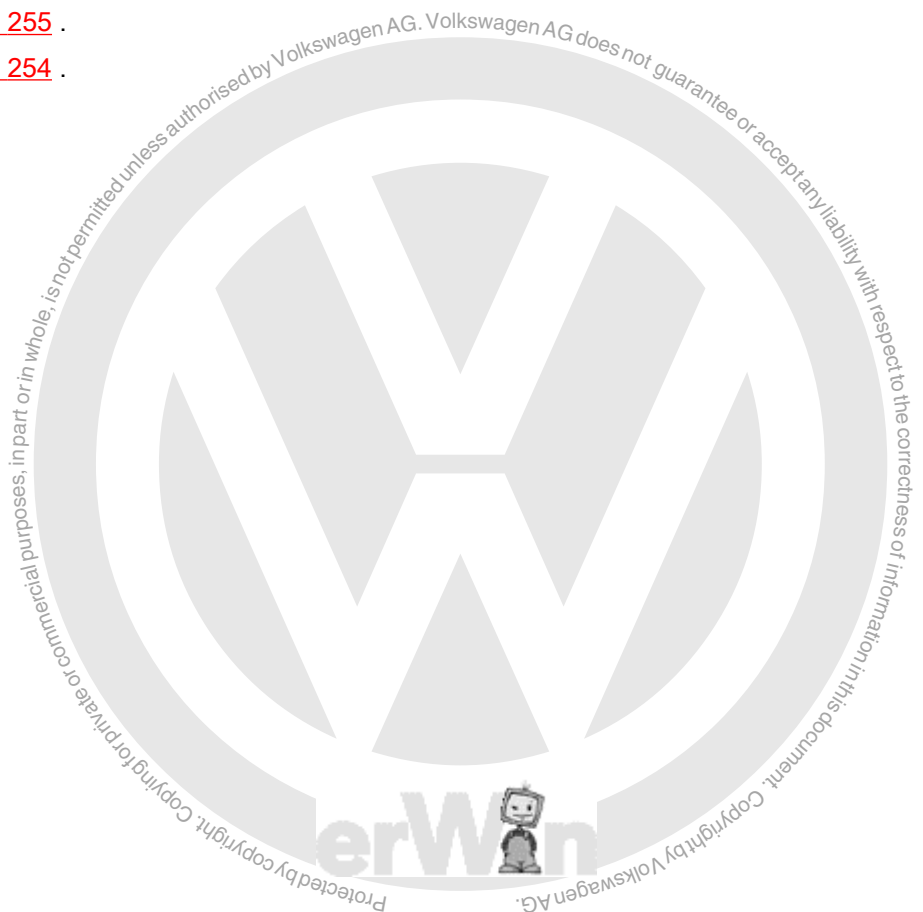
Preparing old undamaged window for glazing ⇒ [page 256](#)

Preparing new window for glazing ⇒ [page 257](#) .

Preparing body flange for glazing ⇒ [page 257](#)

Installation instructions ⇒ [page 255](#) .

Minimum curing period ⇒ [page 254](#) .





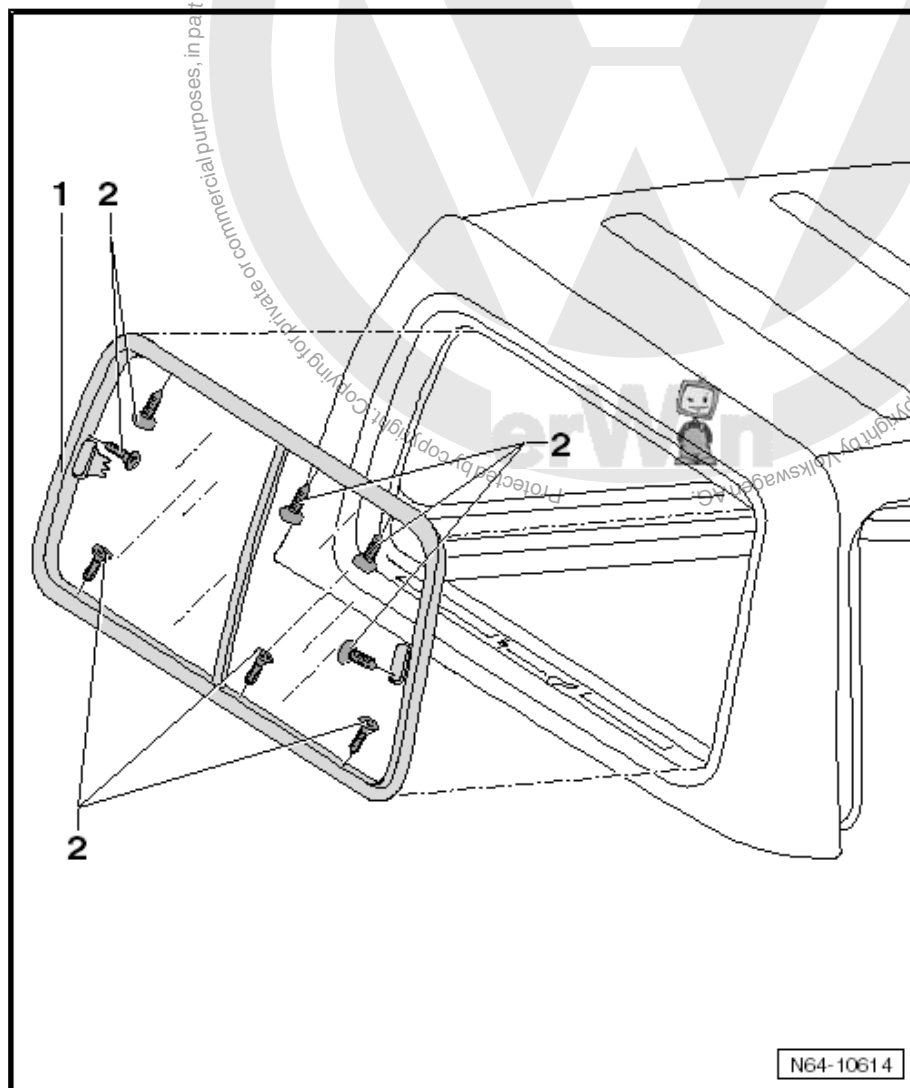


## 4.4 Removing and installing sliding window



### Note

*Removal and installation are only shown for the left sliding window. The removal and installation of the right sliding window is analogous.*



### Removing

- Open side sliding window -1- at front and unscrew bolts -2- (qty. 3) between window channel and window frame.
- Open side sliding window -1- at rear and unscrew bolts -2- (qty. 5) between window channel and window frame.
- Remove side sliding window -1- from hardtop window aperture.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:

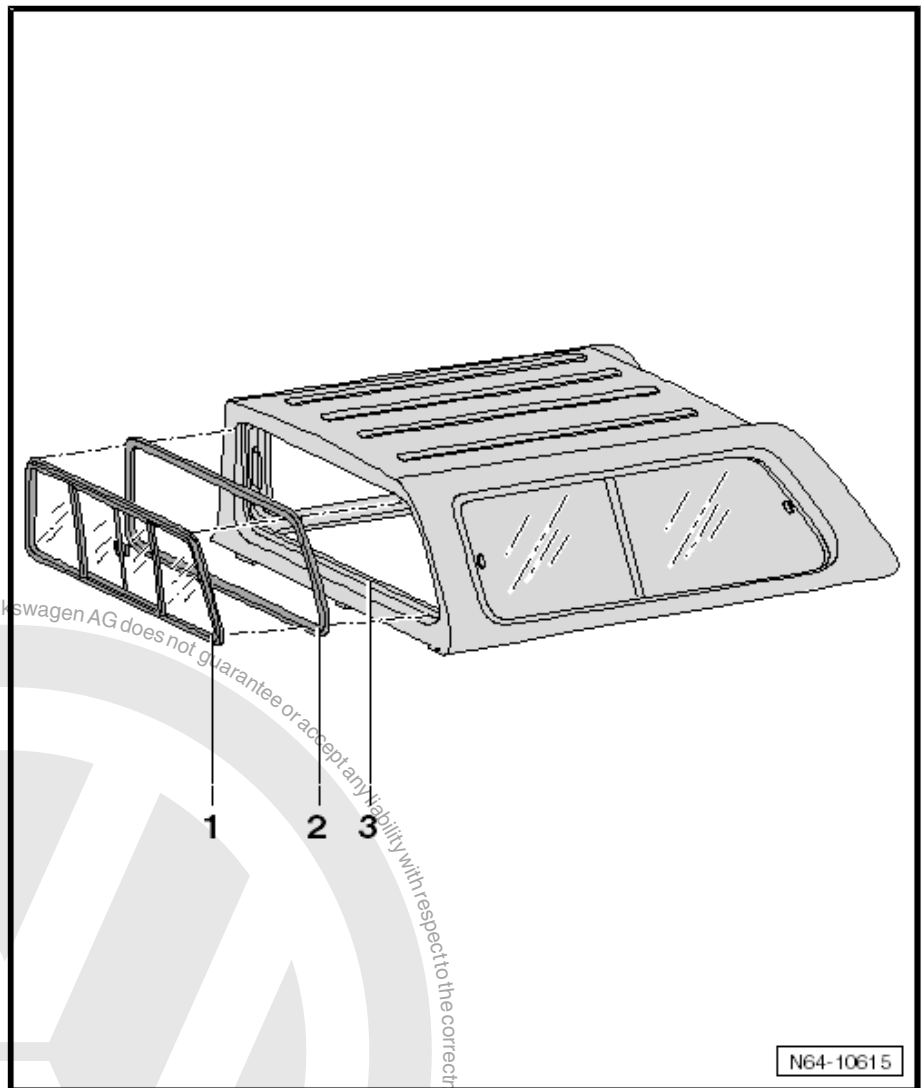




### Specified torques

Component	Specified torque
Side sliding window	3.0 Nm

## 4.5 Removing and installing front sliding window



### Removing

- Release hardtop to rear and slide towards rear ⇒ [page 161](#) .
- Detach seal -2- from inside out over window flange -3- using removing wedge -3409- .
- Press front sliding window -1- with seal -2- out of window aperture from inside.

### Installing

- Spray seal -2- with soapy water.
- Insert thread inserting tool -V.A.G 1818- around seal -2-.

Further installation is possible only with the help of a second mechanic.





- Locate front sliding window -1- in window aperture using 2 suction lifters -V.A.G 1344- .
- Pull out thread inserting tool for window seal -V.A.G 1818- all round from inside and thereby pull sealing lip over window flange -3-.





## 5 Trims, foam components

⇒ ["5.1 Assembly overview - hardtop foam components, top", page 209](#)

⇒ ["5.2 Assembly overview - foam components, top and side", page 210](#)

⇒ ["5.3 Removing and installing top panel", page 211](#)

⇒ ["5.4 Removing and installing right D-pillar trim", page 213](#)

⇒ ["5.5 Removing and installing left D-pillar trim", page 215](#)

⇒ ["5.6 Removing and installing hardtop middle trim", page 218](#)

⇒ ["5.7 Removing and installing hardtop securing bracket", page 224](#)

⇒ ["5.8 Removing and installing front trim", page 225](#)

⇒ ["5.9 Removing and installing edge protector", page 226](#)

⇒ ["5.10 Installing speed nuts", page 227](#)

⇒ ["5.11 Removing and installing rear seal", page 228](#)

### 5.1 Assembly overview - hardtop foam components, top

#### Fitting notes

- ◆ Foam components cannot be removed without being damaged.
- ◆ Only use adhesive remover -D 002 000 10- to remove adhesive residue.
- ◆ Ensure that adhesive surfaces are free of dust and grease.
- ◆ Remove backing from protective film -5- only immediately before installation.
- ◆ Position foam components -4- relative to wooden rails -2- and -3- as specified.

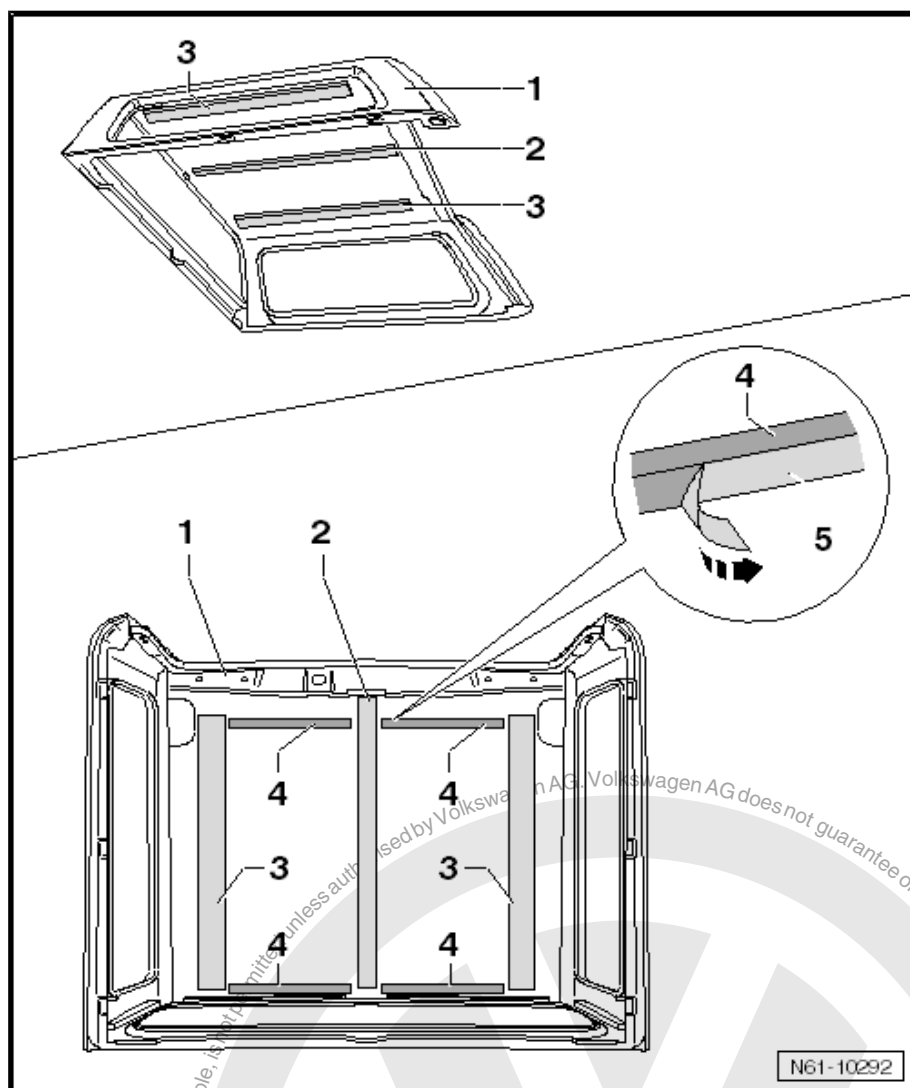






- ◆ Press foam components down along entire length.

- 1 - Hardtop
- 2 - Middle wooden rail
- 3 - Wooden rail
  - Left and right
- 4 - Foam element
  - Qty. 4



## 5.2 Assembly overview - foam components, top and side

### Fitting notes

- ◆ Foam components cannot be removed without being damaged.
- ◆ Only use adhesive remover -D 002 000 10- to remove adhesive residue.
- ◆ Ensure that adhesive surfaces are free of dust and grease.
- ◆ Remove backing from protective film -4- only immediately before installation.
- ◆ Position foam components -1-, -2- and -3- relative to window aperture.





- ◆ Press foam components down along entire length.

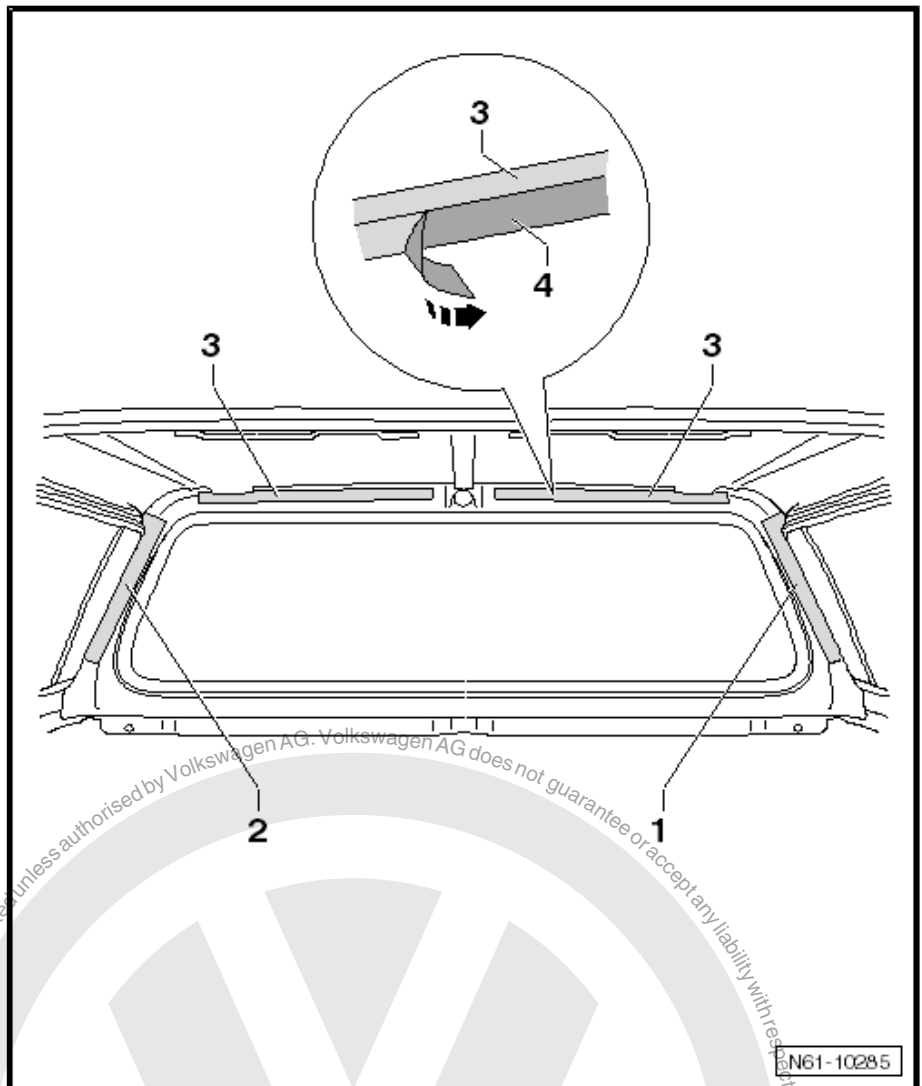
1 - Foam component, front side

□ Right

2 - Foam component, front side

□ Left.

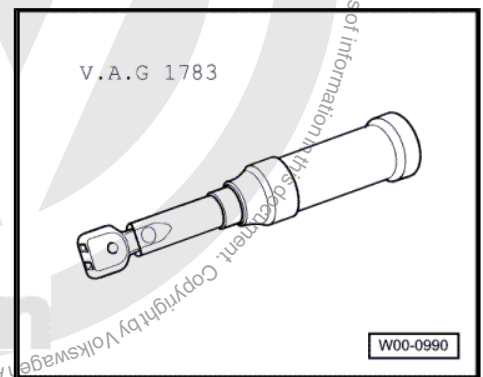
3 - Foam component, front top



### 5.3 Removing and installing top panel

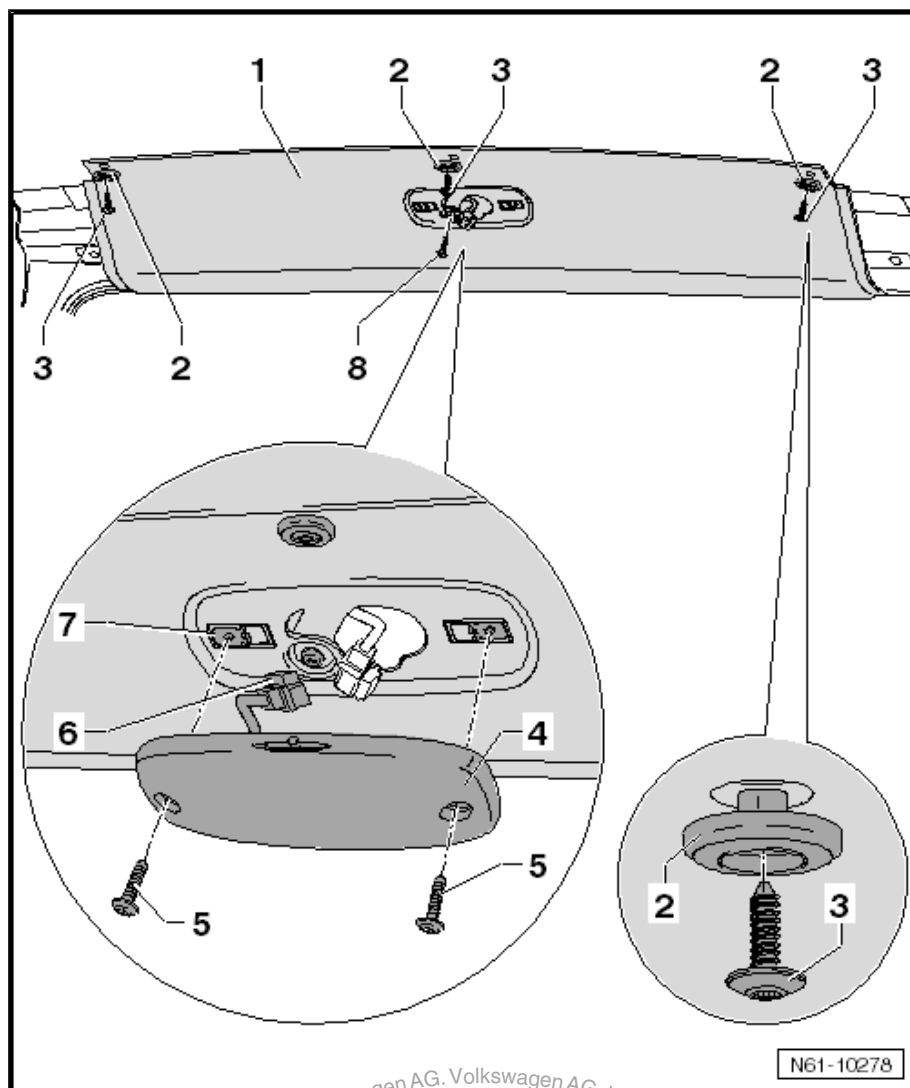
Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-



Removing





- Remove right D-pillar trim ⇒ [page 213](#) .
- Unscrew bolts -5- and remove load compartment light -4-.
- Disconnect connector -6-.
- Unscrew bolts -3- (with spacers -2-) and -8-.
- Remove top panel -1-.

#### Installing

- Locate snap nut -7- in area of light aperture.
- Locate top panel -1- on roof frame and pass connector for interior light through.
- Align top panel and fasten to metal bracket in light aperture with bolt -8-.
- Position spacers -2- and screw bolts -3- into wooden rails.
- Plug in connector -6- and insert load compartment light -4- in top panel recess.
- Secure light with bolts -5-.





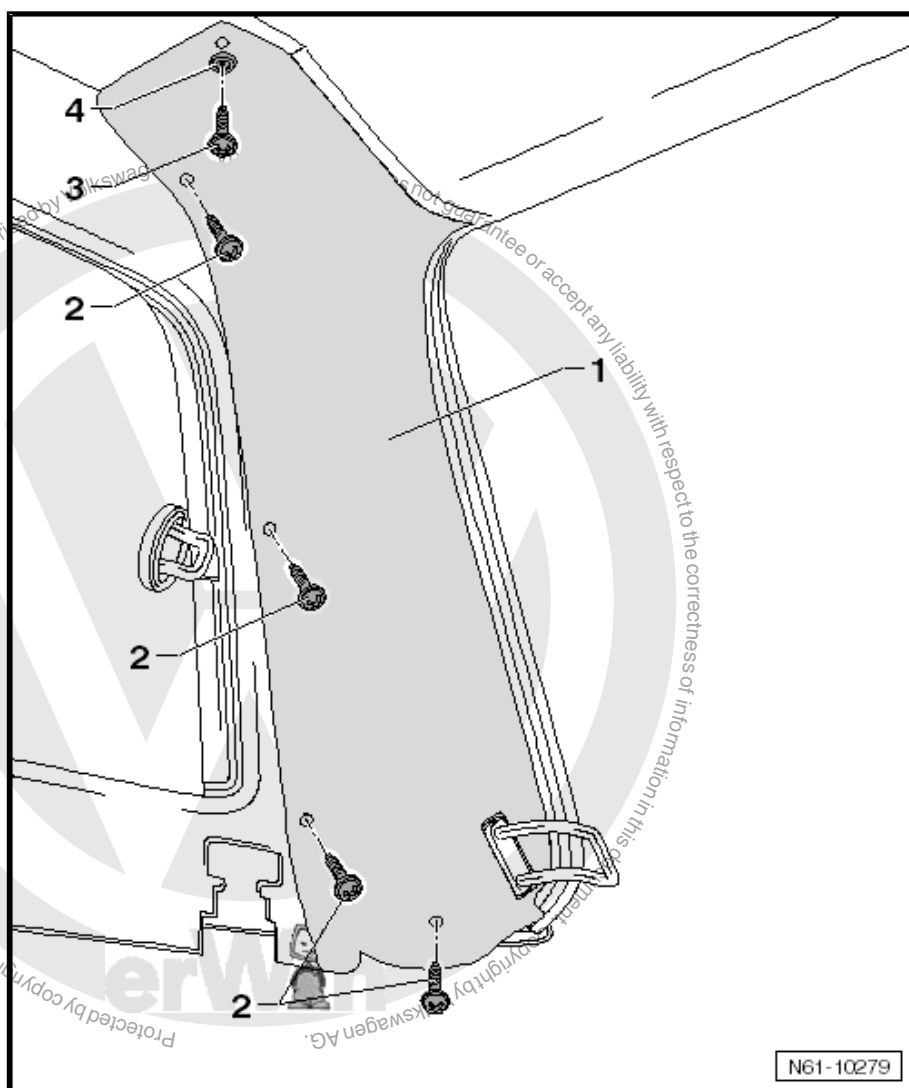
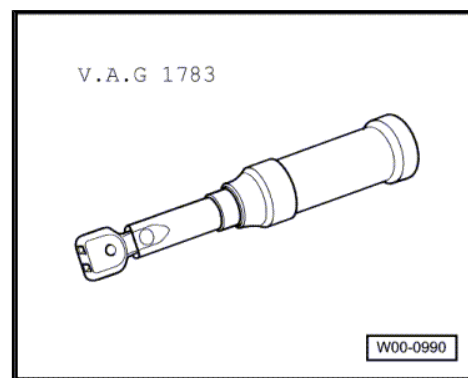
## Specified torques

Component	Specified torque
Bolts -3- and -5-	2.5 Nm

## 5.4 Removing and installing right D-pillar trim

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-



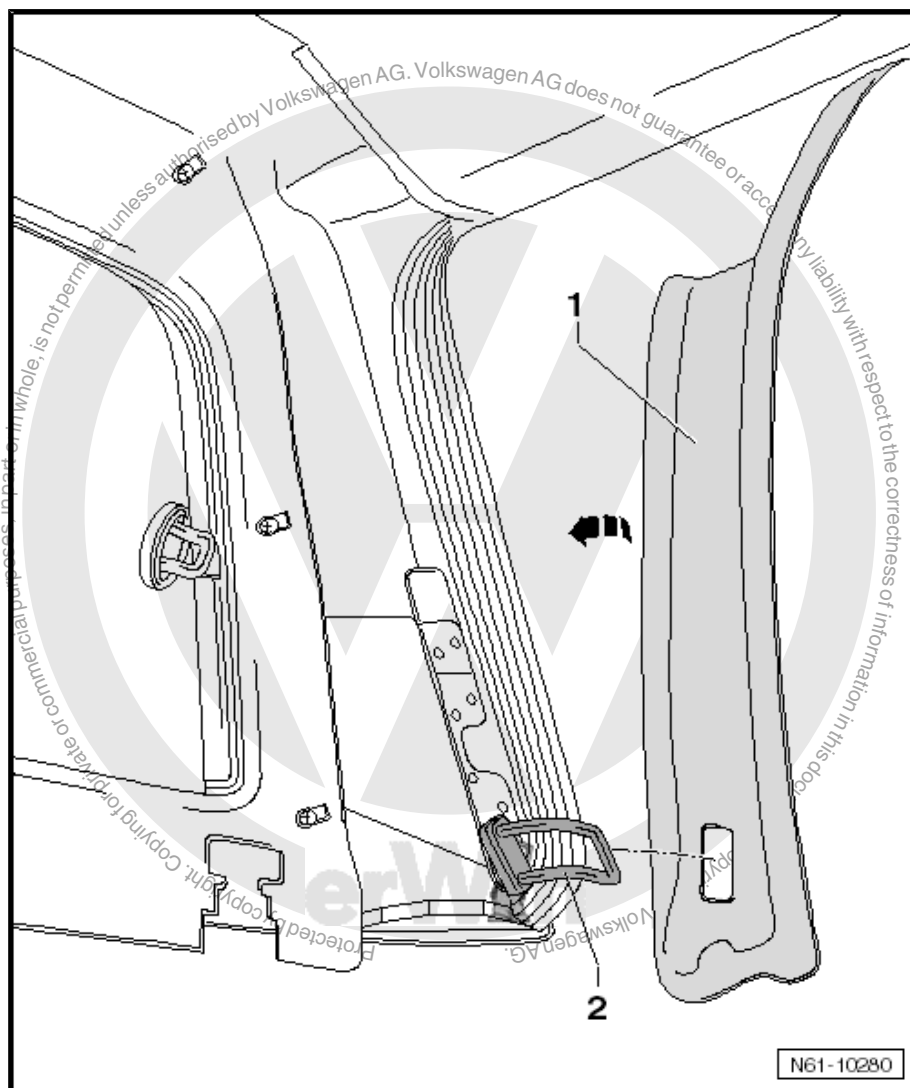




### Removing

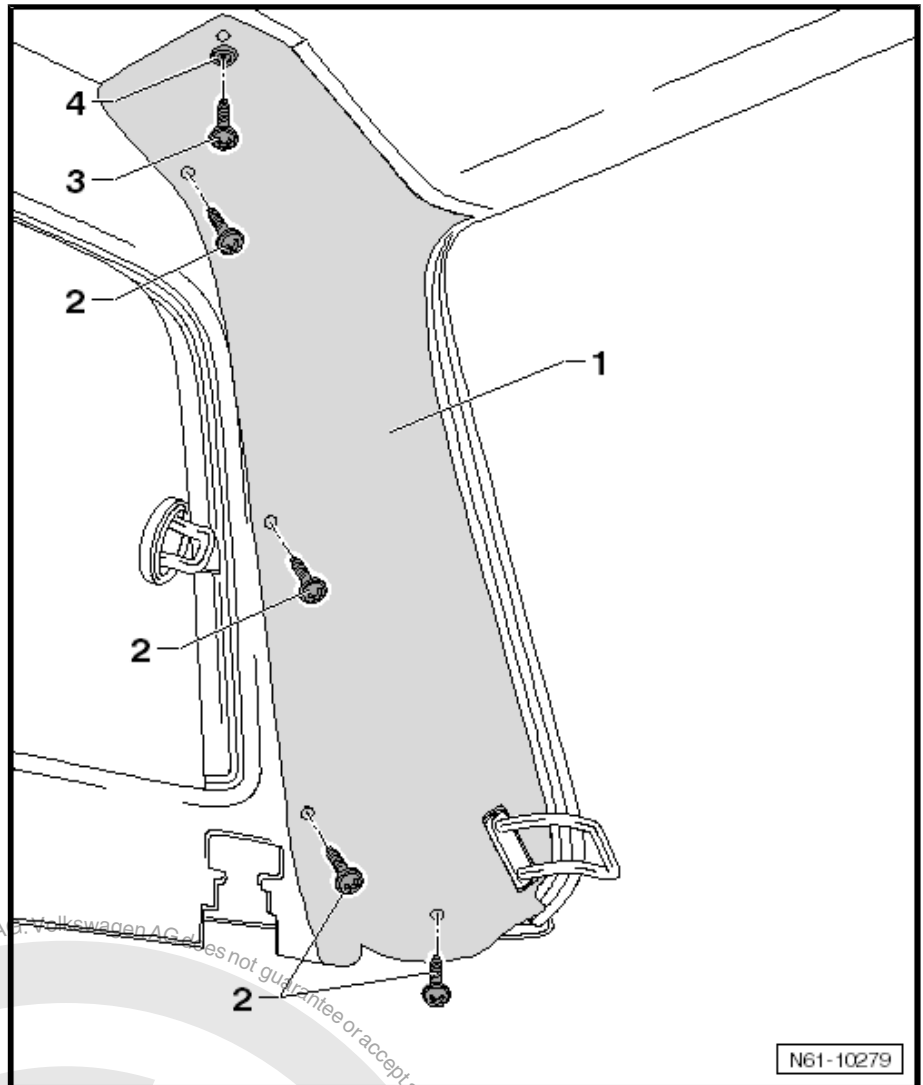
- Detach right rear seal ⇒ [page 228](#)
- Remove bolts -2- and -3- with spacers -4-.
- Guide D-pillar trim -1- with cut-out over striker.

### Installing



- Locate snap nuts on centre trim ⇒ [page 227](#) .
- Guide D-pillar trim -1- with cut-out over striker -2-.





- Align D-pillar trim -1- and screw upper bolt to side trim.
- Position spacer -4- and screw bolt -3- into wooden rail.
- Screw middle and lower bolts -2- to side trim.
- Screw bolt -2- to lower part of D-pillar trim.
- Fit right rear seal → [page 228](#) .

#### Specified torques

Component	Specified torque
D-pillar trim	2.5 Nm

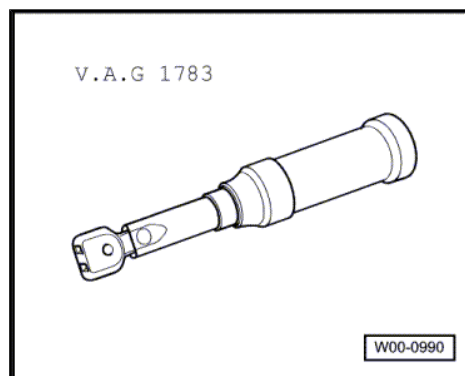
## 5.5 Removing and installing left D-pillar trim

Special tools and workshop equipment required

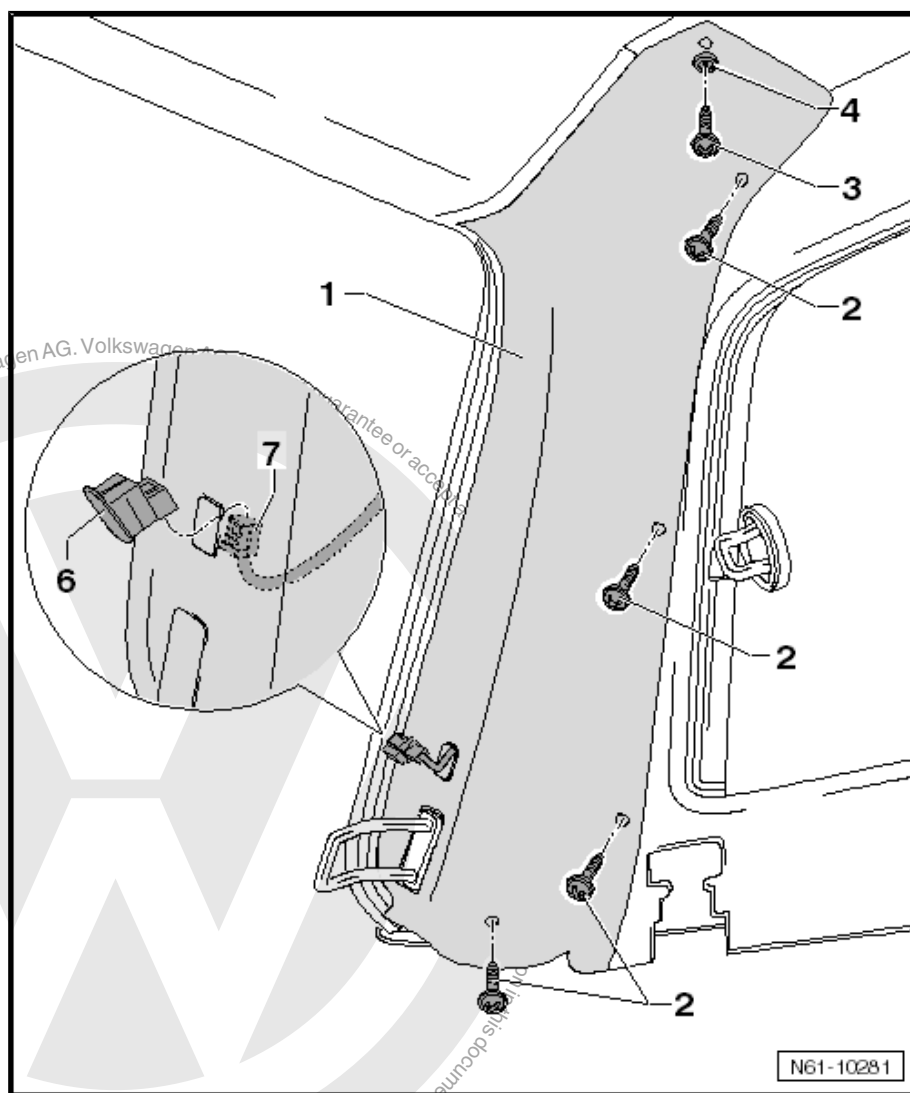




- ◆ Torque wrench -V.A.G 1783-



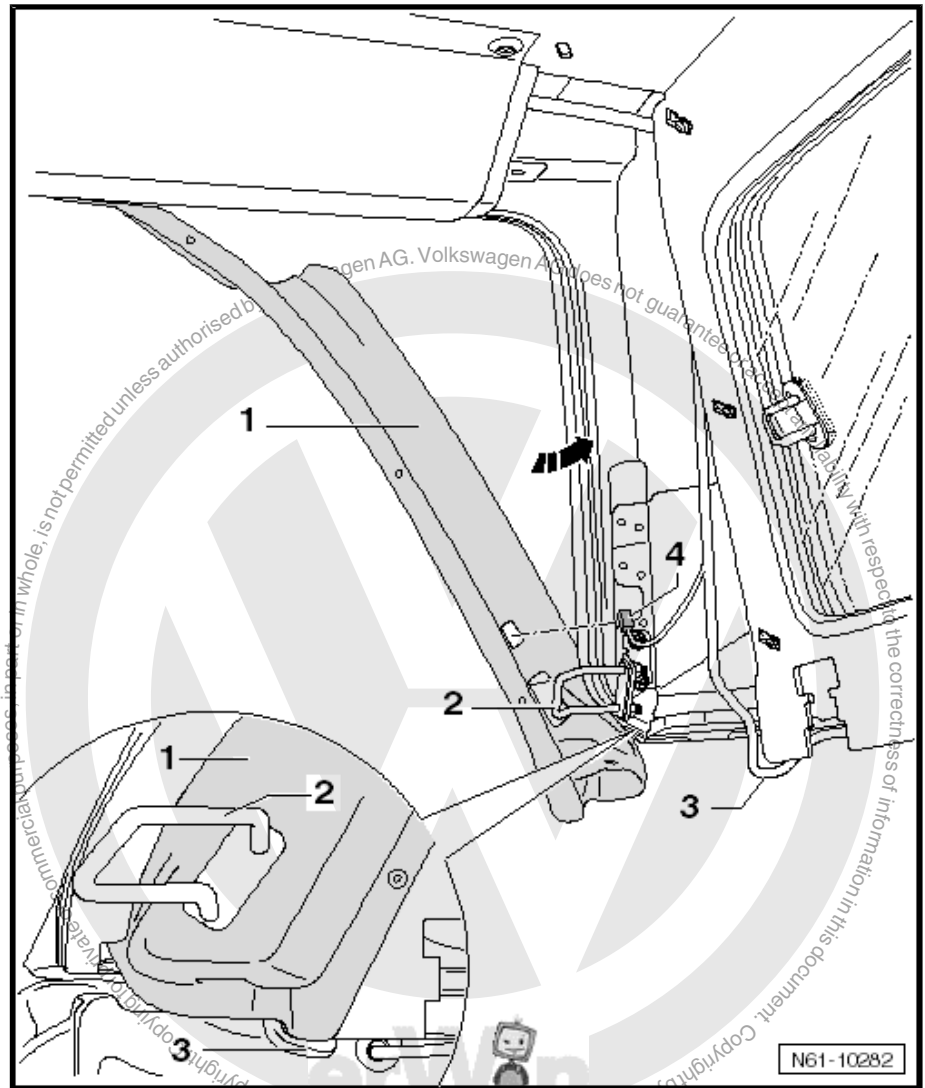
## Removing



- Detach left rear seal ⇒ [page 228](#)
- Unclip momentary-contact switch -6- from D-pillar trim -1- and unplug connector -7-.
- Remove bolts -2- and -3- with spacers -4-.
- Guide D-pillar trim -1- with cut-out over striker.

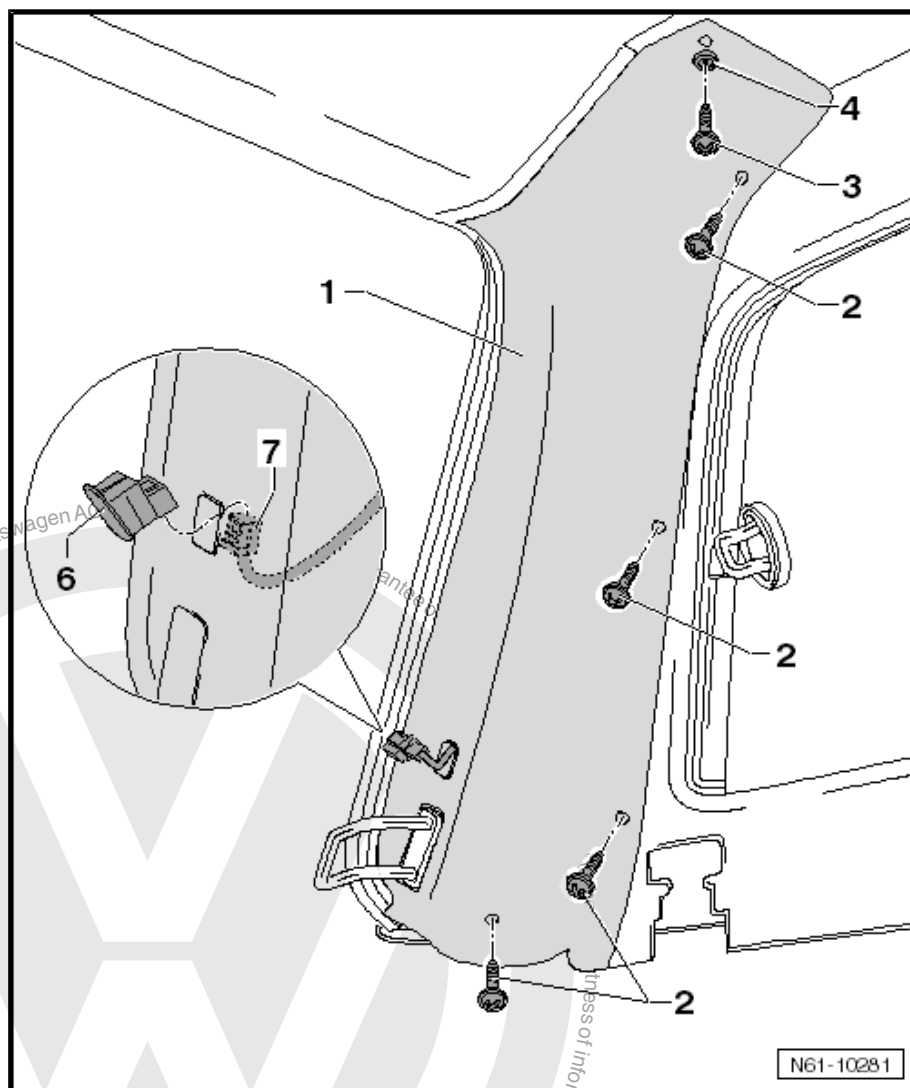
## Installing





- Locate snap nuts on centre trim => [page 227](#) .
- Guide D-pillar trim -1- with cut-out over striker -2-.
- Route connector -4- for momentary-contact switch through D-pillar trim -1-.
- Lay connecting cable -3- to cargo box in recess provided for that purpose.





- Align D-pillar trim -1- and screw upper bolt -2- to side trim.
- Position spacer -4- and screw bolt -3- into wooden rail.
- Screw middle and lower bolts -2- to side trim.
- Screw bolt -2- to lower part of D-pillar trim.
- Plug connector -7- into momentary-contact switch -6- and clip momentary-contact switch to D-pillar trim -1-.
- Install left rear seal ⇒ [page 228](#)

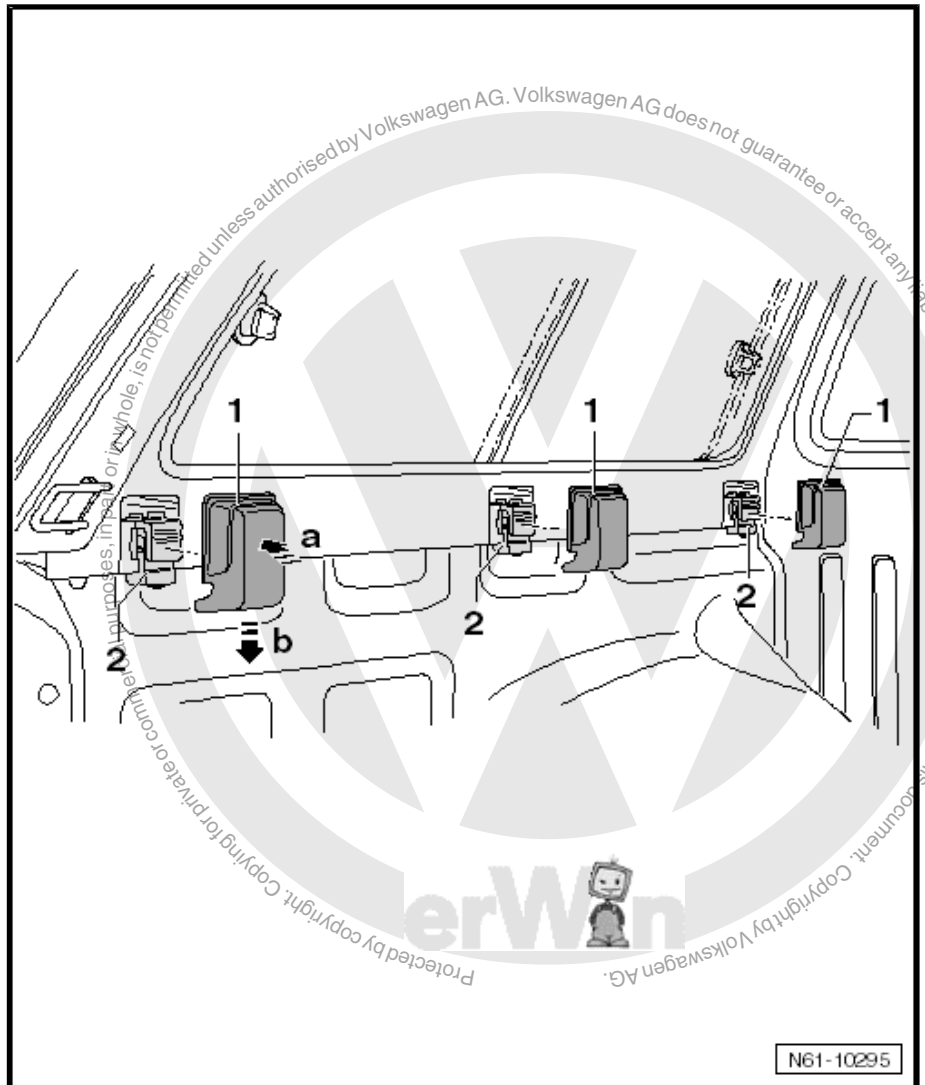
#### Specified torques

Component	Specified torque
D-pillar trim	2.5 Nm

## 5.6 Removing and installing hardtop middle trim

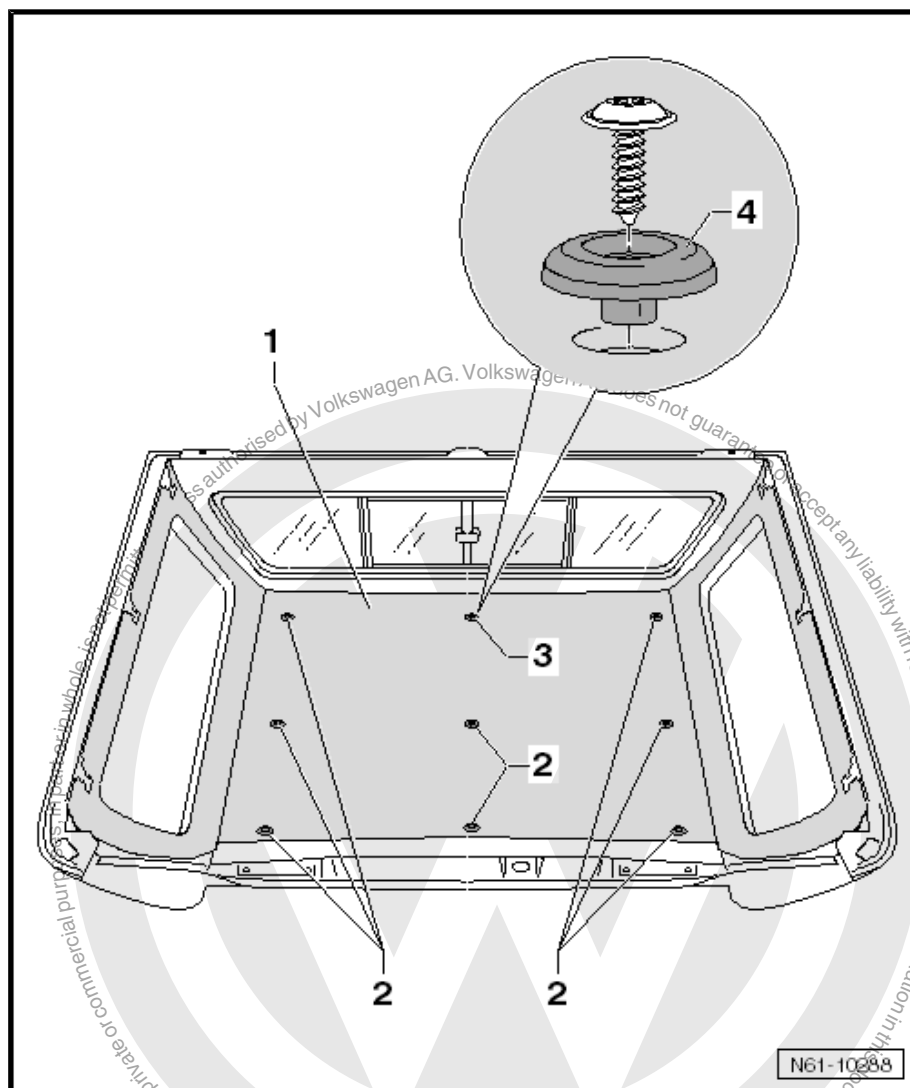
### Removing





- Remove top panel ➔ [page 211](#) .
- Remove right D-pillar trim ➔ [page 213](#) .
- Remove left D-pillar trim ➔ [page 215](#) .
- Remove left and right edge protectors ➔ [page 226](#) .
- Press cover -2- (quantity: 3) onto retaining clip -arrow a- and slide down -arrow b-.

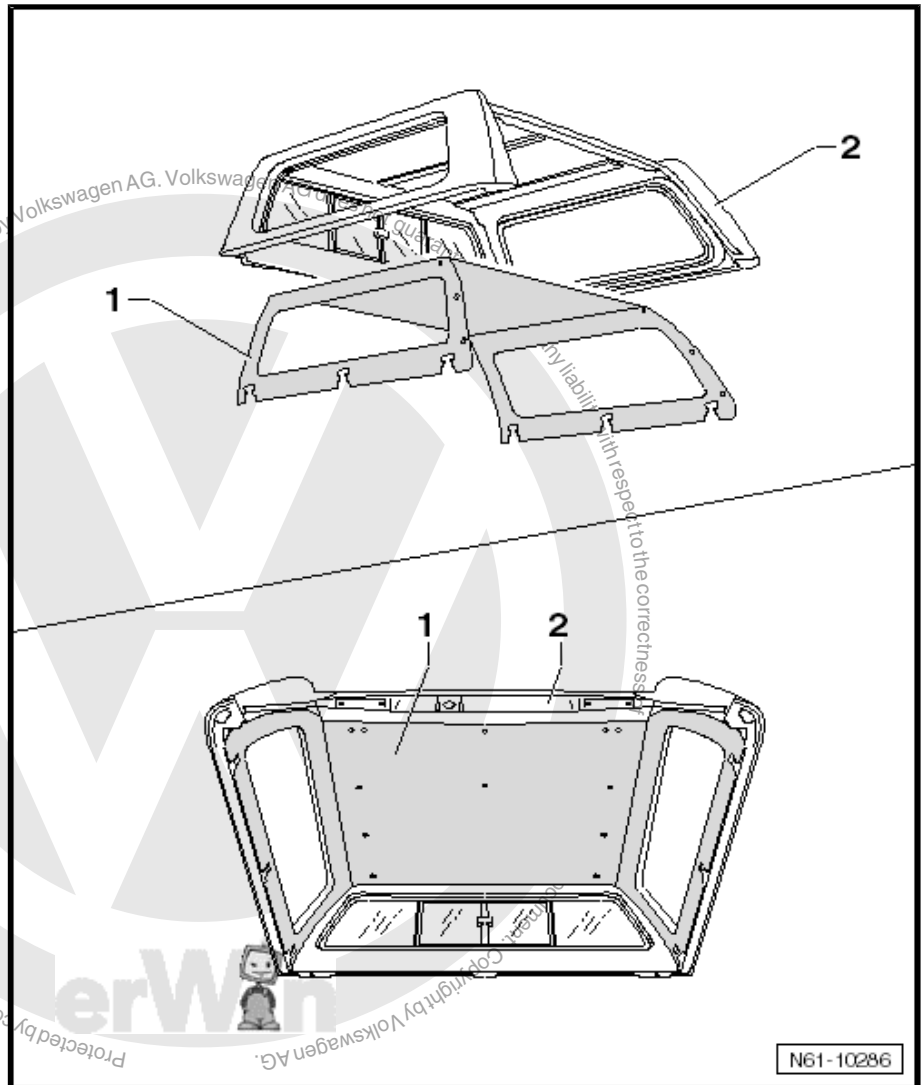




- Remove bolts -2- and -3- (Qty. 9) with spacers -4-.
- Remove middle trim -1- from hardtop with aid of a second mechanic.

#### Installing





- Securing bracket is fitted ⇒ [page 224](#) .
- Locate and align middle trim -1- in hardtop -2-.

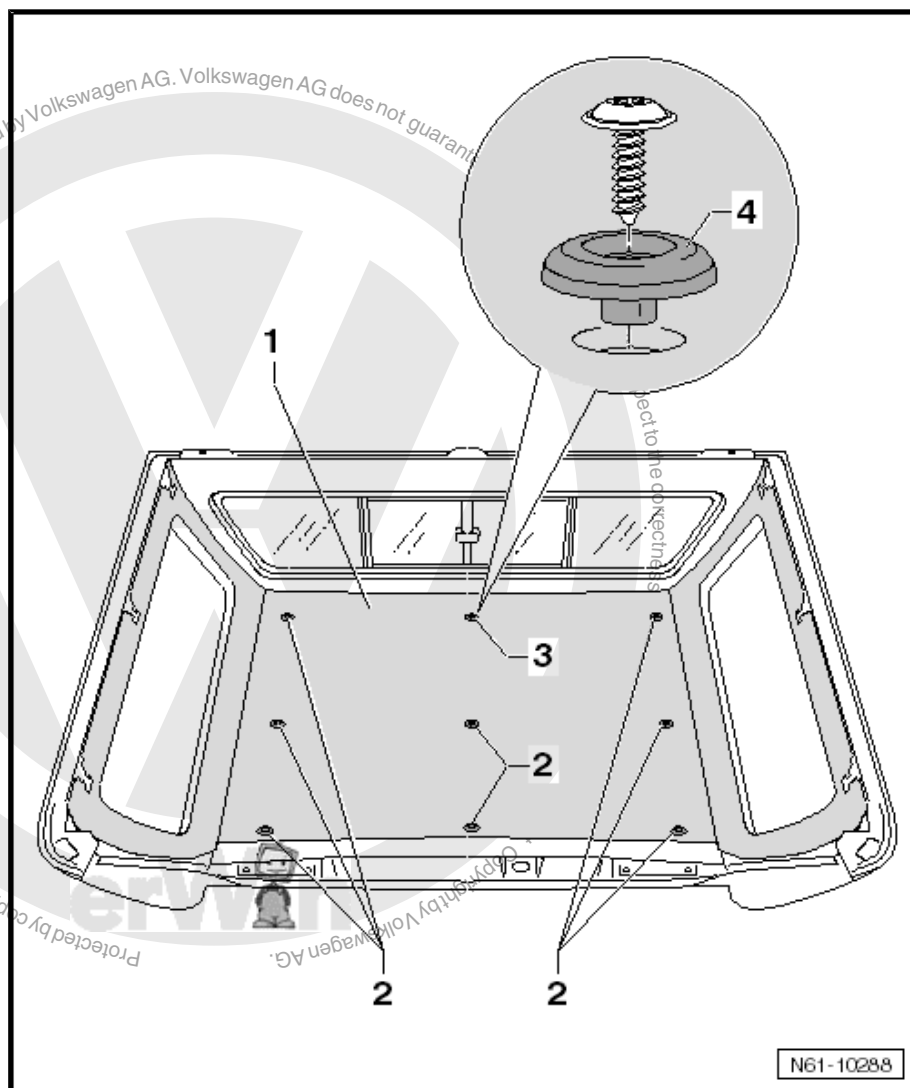


**Note**

*Ensure flush fit with front trim.*

- Locate side elements and align relative to window aperture.
- Install remove left and right edge protectors ⇒ [page 226](#) .



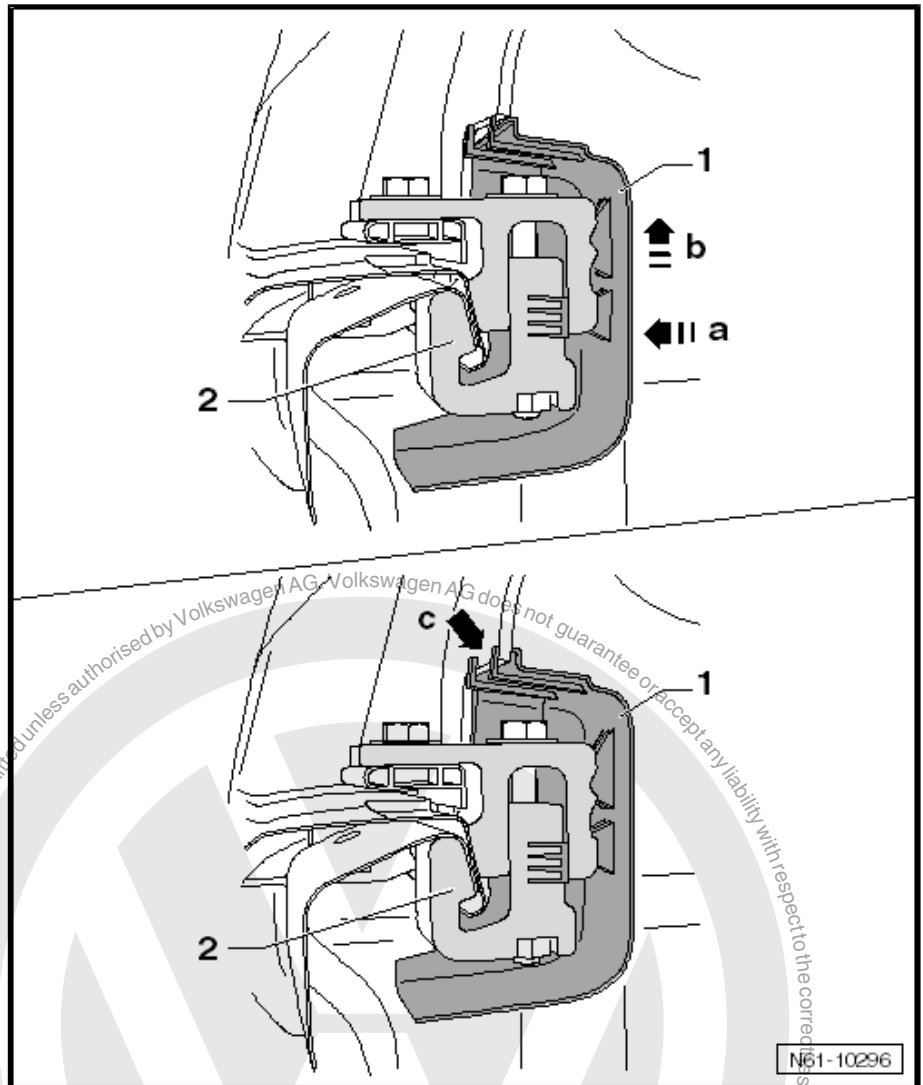


- Prepare middle front attachment point -3- first and secure with bolt.
- Centre spacers -4- in any order in securing holes -2- in middle trim -1- and secure with bolts.

#### Specified torques

Component	Specified torque
Centre trim	2.5 Nm



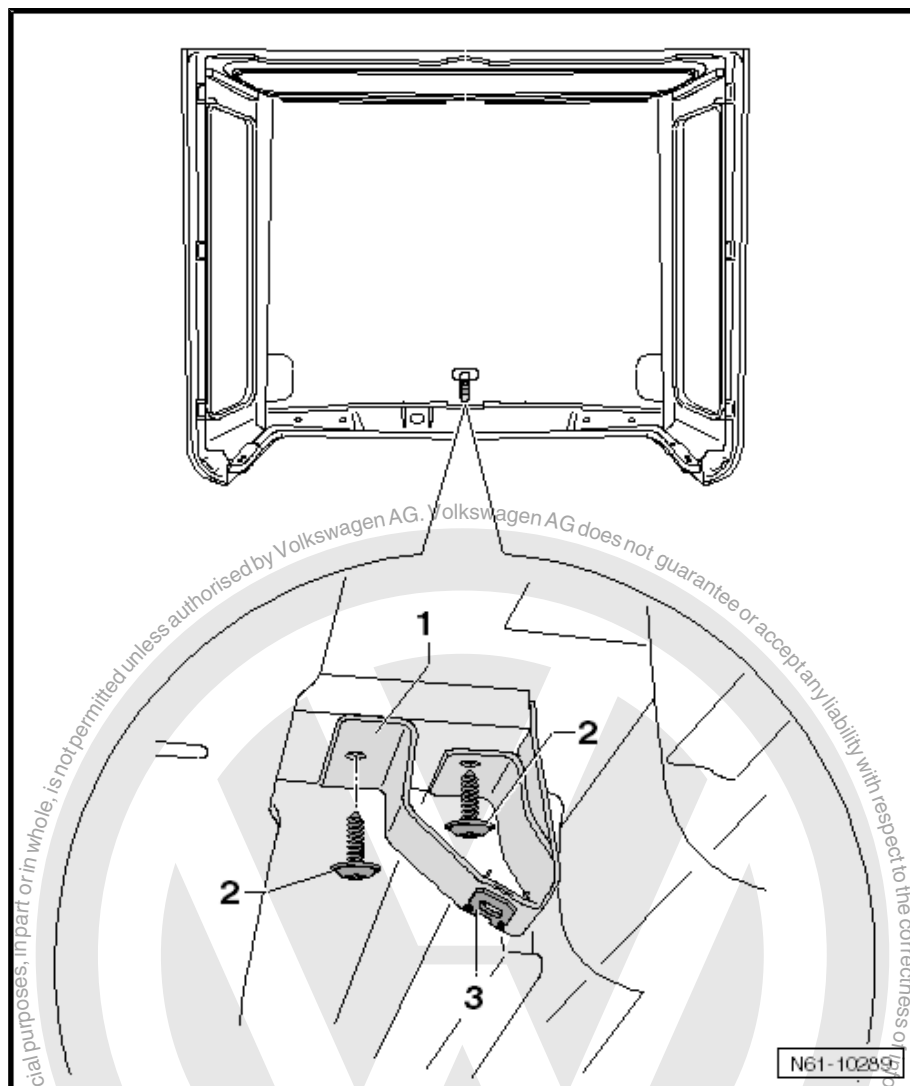


- Press cover -1- (qty. 3) onto retaining clip -2- -arrow a-.
- Slide cover -1- up -arrow b-.
- Locate lugs -arrow c- behind side cladding and retaining clip -2-.
- Slide cover -1- up until it engages.
- Install top panel ⇒ [page 211](#)
- Install right D-pillar trim ⇒ [page 213](#) .
- Install left D-pillar trim ⇒ [page 215](#) .





## 5.7 Removing and installing hardtop securing bracket



- Locate snap nuts -3- on fastening bracket -1-.
- Place fastening bracket -1- with contact surfaces on middle wooden rail.
- Locate bolts -2- and tighten.

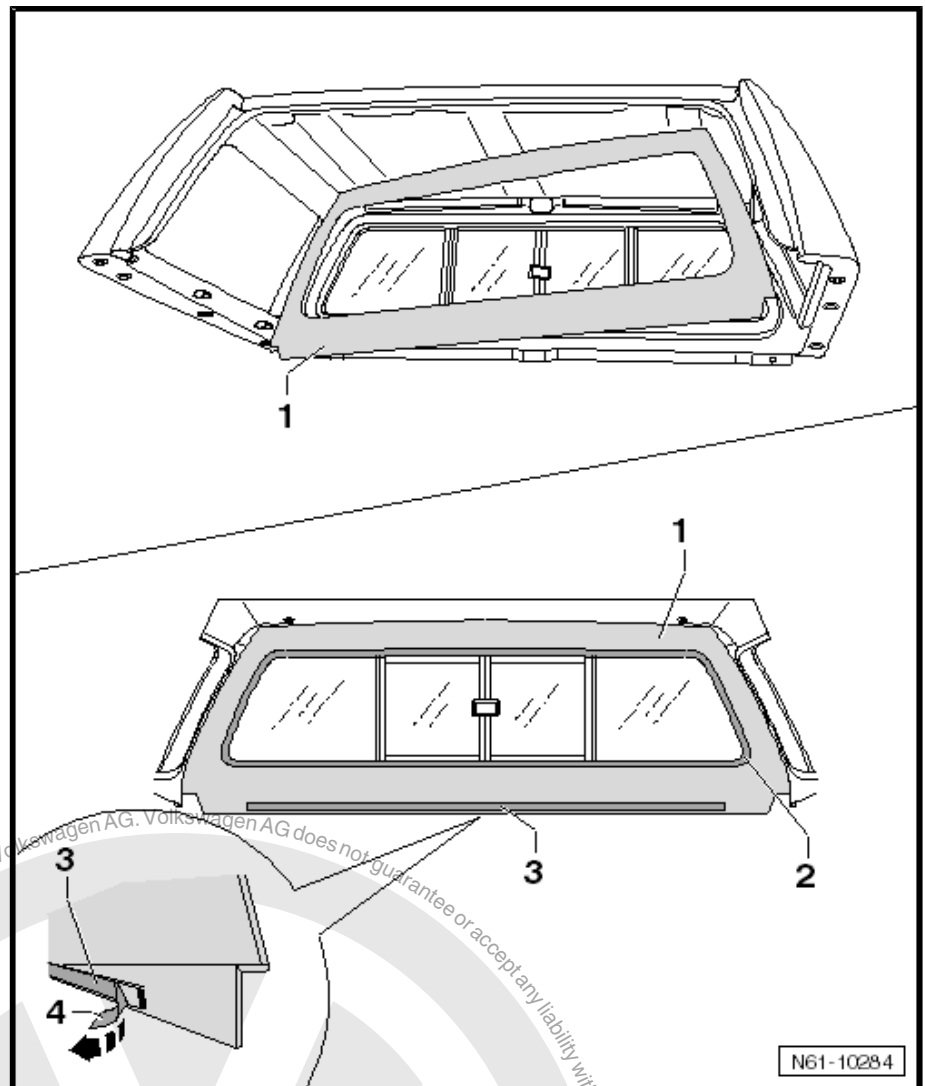
### Specified torques

Component	Specified torque
Securing bracket	2.5 Nm





## 5.8 Removing and installing front trim



### Removing

- Pull sliding window seal -2- all round over trim.
- Remove adhesive tape -3-.
- Remove front trim -1- from hardtop.

### Installing

- Ensure that foam components are evenly seated  
⇒ [page 210](#).
- Locate front trim -1- in hardtop.
- Position trim uniformly relative to window aperture.
- Roll sliding window seal out -2- all round over front trim.
- Remove backing -4- from Velcro tape -3- and press front trim -1- down evenly over entire width.



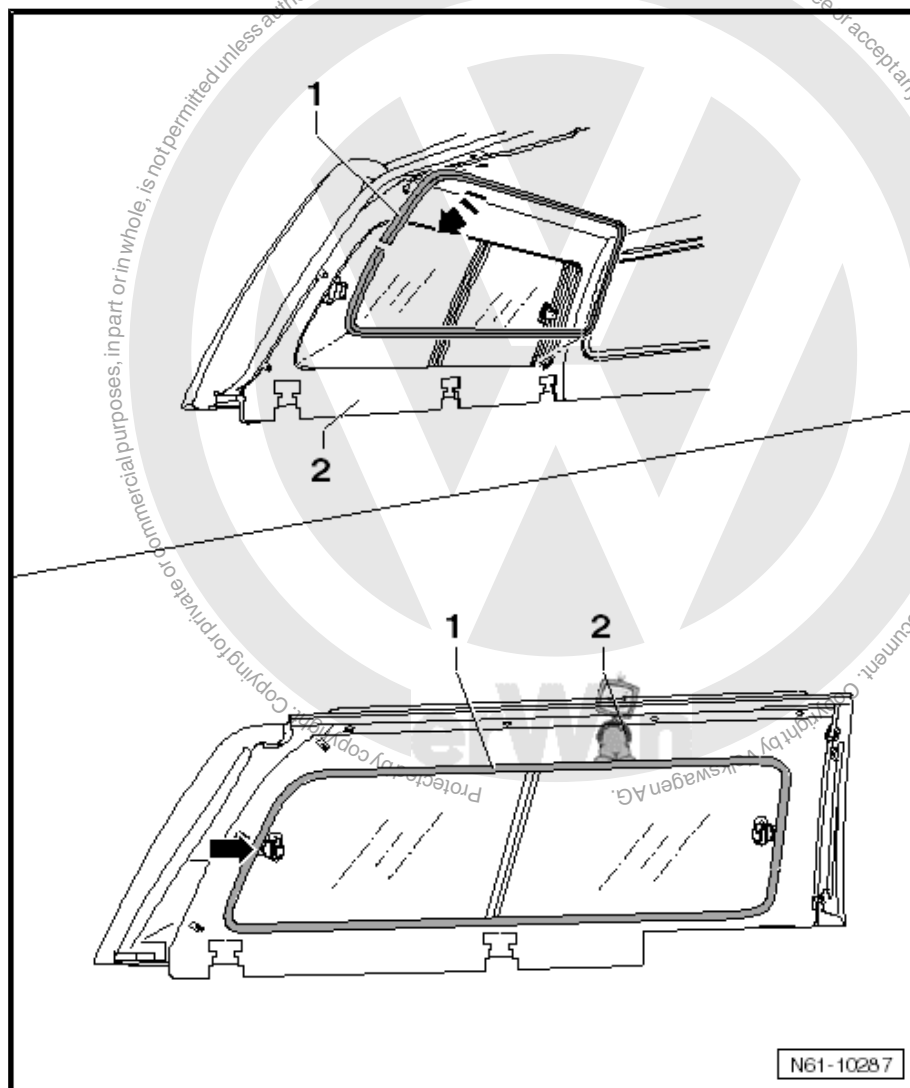


## 5.9 Removing and installing edge protector



### Note

*The removal and installation sequence is only for the left side. Removal and installation of the right side is similar.*



### Removing

- Peel edge protector -1- off trim.

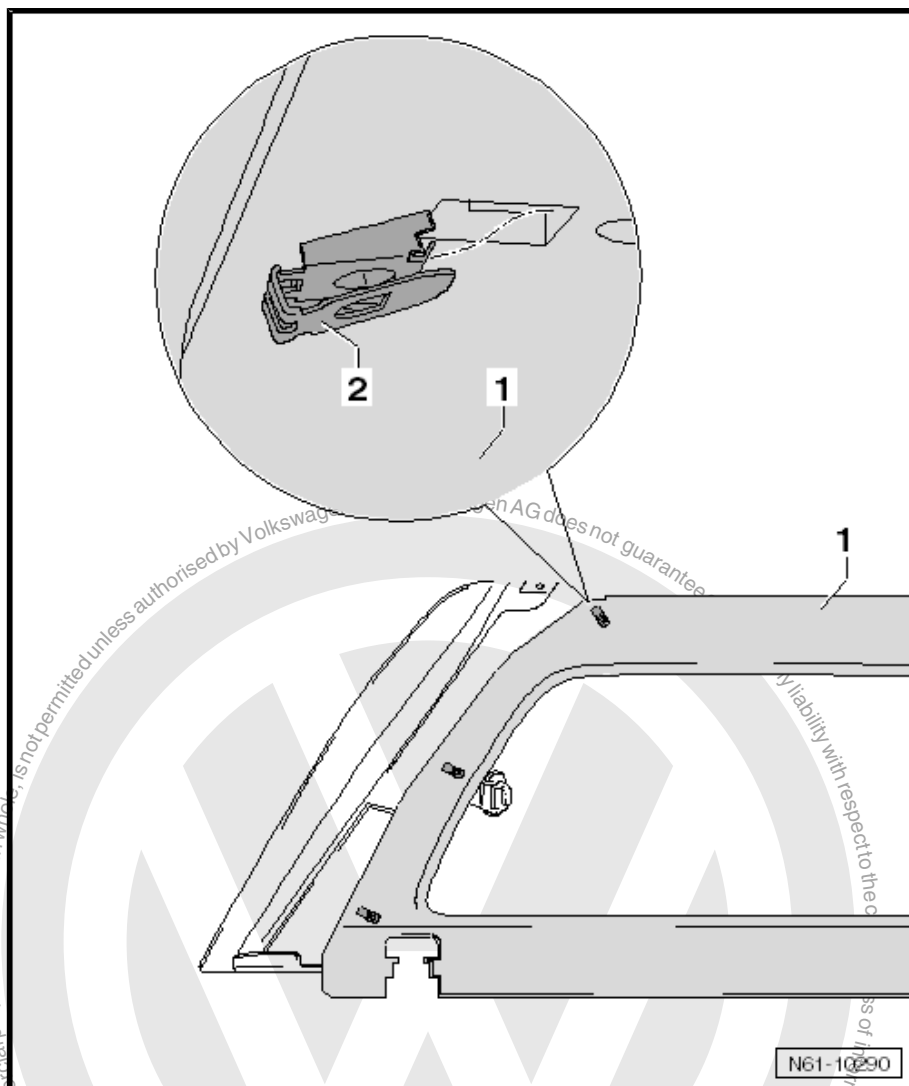
### Installing

- Locate edge protector -1- uniformly, starting at dividing point -arrow-.
- Ensure correct seating contact in curved sections and do not stretch edge protector -1- when fitting.





## 5.10 Installing speed nuts



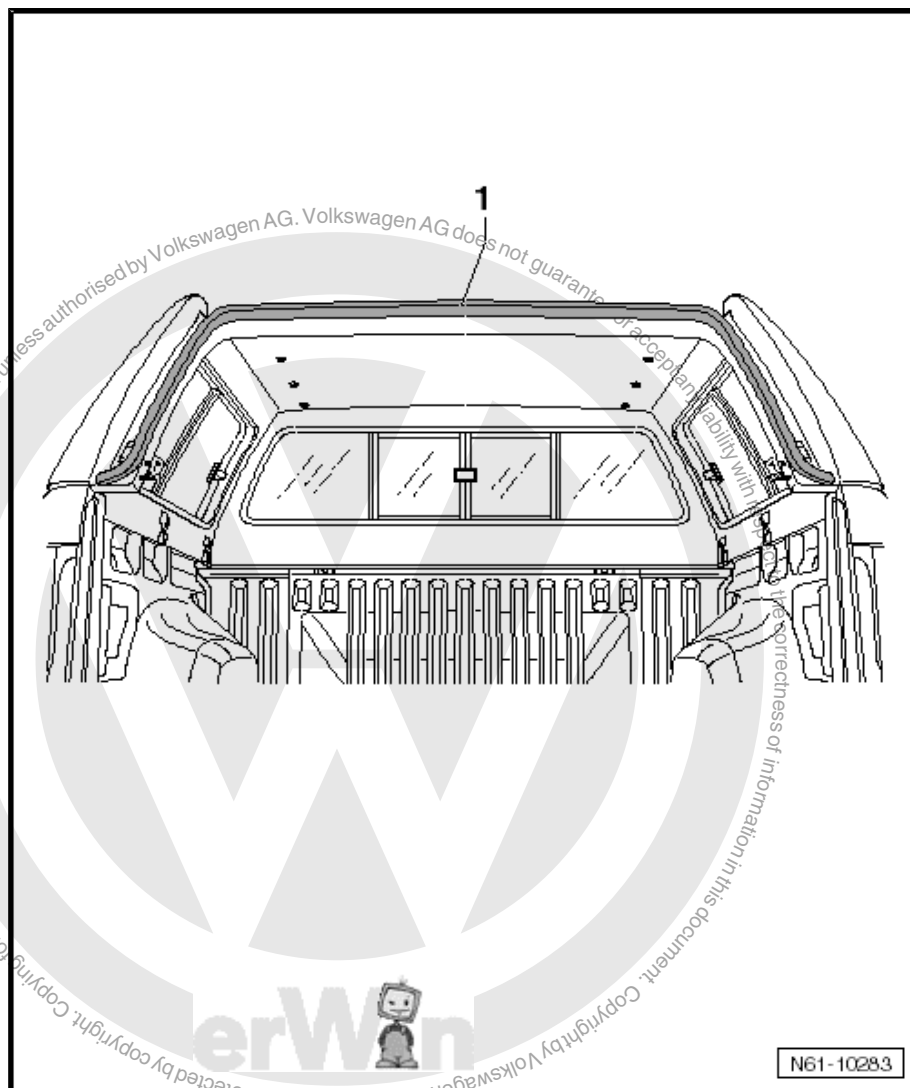
### Assembling sequence:

- Locate clamping snap nut -2- (qty 3 on each side) on middle trim -1-.
- Position thread of clamping snap nut -2- on rear of middle trim -1-.





## 5.11 Removing and installing rear seal



### Removing

- Peel rear seal -1- off flange.

### Installing

- Press rear seal -1- onto flange.
- Fold cover lip of seal -1- over trim edges and ensure it runs uniformly.





## 63 – Bumpers







# 1 Front bumper cover

- ⇒ "1.1 Assembly overview - front bumper", page 230
- ⇒ "1.2 Assembly overview - front bumper cover, add-on parts", page 231
- ⇒ "1.3 Assembly overview - wheel arch trim, bumper cover", page 234
- ⇒ "1.4 Assembly overview - parking aid retainer", page 235
- ⇒ "1.5 Assembly overview - substructure components", page 236
- ⇒ "1.6 Removing and installing front bumper cover", page 236
- ⇒ "1.7 Removing and installing wheel arch trim, front bumper cover", page 239
- ⇒ "1.8 Repairing bumper cover", page 242
- ⇒ "1.9 Installing brackets for parking aid system", page 242

## 1.1 Assembly overview - front bumper



### Note

Depending on model slight differences are possible when referring to assembly overview.

#### 1 - Front bumper cover

- ☐ Removing and installing  
⇒ page 236

#### 2 - Bolt

- ☐ Qty. 2 on each side
- ☐ Specified torque: 2.0 Nm

#### 3 - Bolt

- ☐ Qty. 2
- ☐ Specified torque: 20 Nm

#### 4 - Bolt

- ☐ Qty. 2 on each side
- ☐ Specified torque: 2.0 Nm

#### 5 - Clip

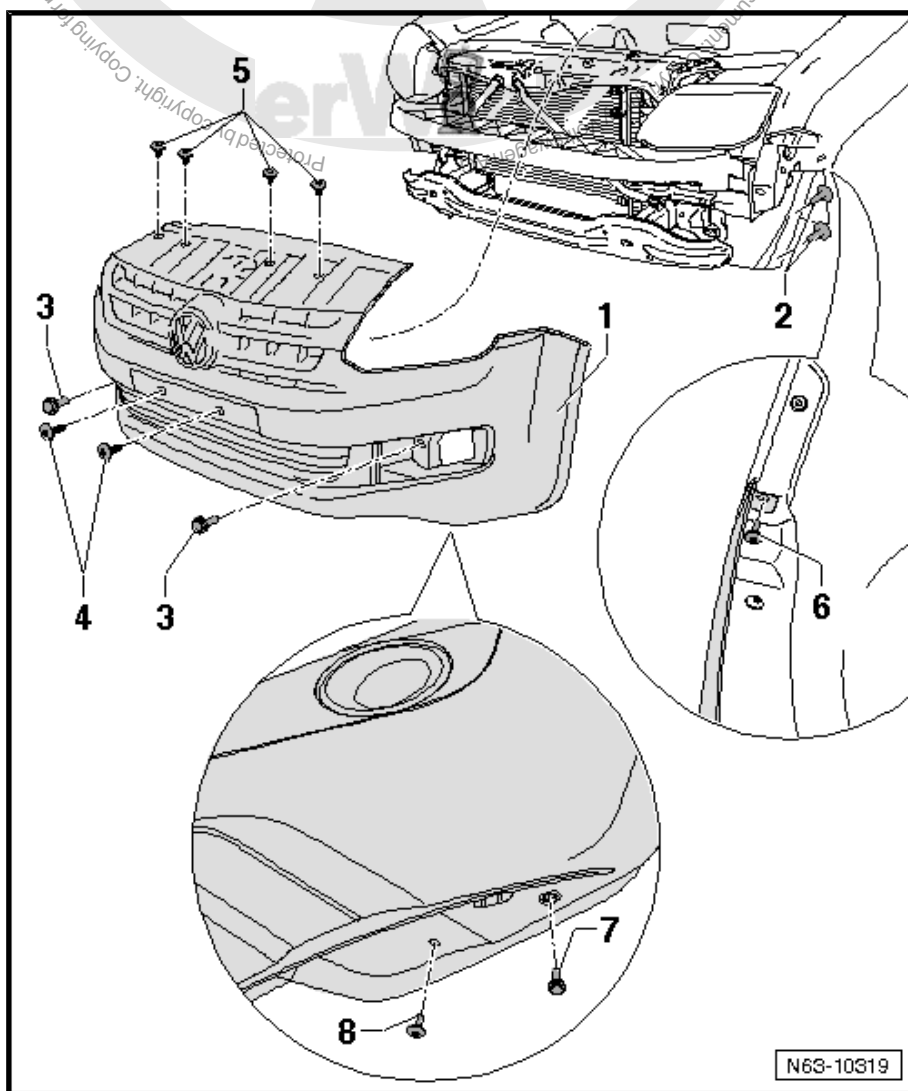
- ☐ Qty. 4

#### 6 - Bolt

- ☐ Left and right.
- ☐ Points upwards.
- ☐ Bolted to wing
- ☐ Specified torque: 8.0 Nm

#### 7 - Bolt

- ☐ Left and right.
- ☐ Specified torque: 8.5 Nm.
- ☐ Bolted to wing







## 8 - Bolt

- ☐ Left and right.
- ☐ Specified torque: 2.0 Nm

## 1.2 Assembly overview - front bumper cover, add-on parts

⇒ "1.2.1 Assembly overview - front bumper cover, add-on parts", page 231

⇒ "1.2.2 Assembly overview - front bumper cover, add-on pieces, PR No. OFA", page 232

⇒ "1.2.3 Assembly overview - front bumper cover, add-on pieces, PR No. OFX", page 233

### 1.2.1 Assembly overview - front bumper cover, add-on parts



#### Note

Depending on model slight differences are possible concerning add-on parts.

#### 1 - Front bumper cover

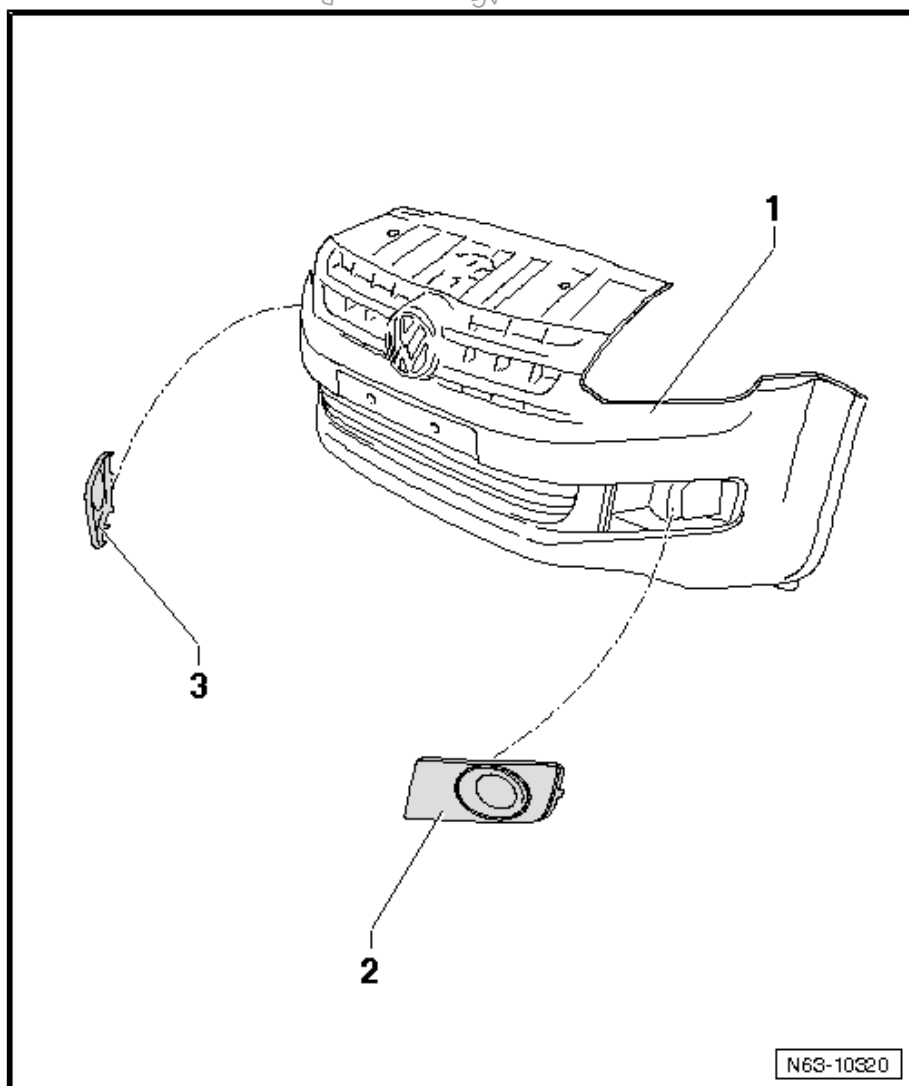
- ☐ Removing and installing  
⇒ page 236

#### 2 - Left trim

- ☐ For fog light.
- ☐ Pull forwards out of dent.

#### 3 - Right trim

- ☐ For fog light.
- ☐ Pull forwards out of dent.







## 1.2.2 Assembly overview - front bumper cover, add-on pieces, PR No. "OFA"

### 1 - Front bumper cover

- ☐ Removing and installing  
⇒ [page 236](#)

### 2 - Left wheel arch trim

- ☐ Removing and installing  
⇒ [page 239](#)
- ☐ Holes for positioning pins notes -arrows-  
⇒ [page 238](#)

### 3 - Fog light trim

- ☐ Left.
- ☐ Pull forwards out of detent.
- ☐ Different versions. For allocation see ⇒ Electronic parts catalogue "ETKA".

### 4 - Decorative trim

- ☐ Can be unclipped only with front bumper cover removed -1-.

### 5 - Front spoiler

- ☐ Left.
- ☐ Can be unclipped only with front bumper cover removed -1-.

### 6 - Front spoiler

- ☐ Centre.
- ☐ Can be unclipped only with front bumper cover removed -1-.

### 7 - Front spoiler

- ☐ Right.
- ☐ Can be unclipped only with front bumper cover removed -1-.

### 8 - Towing eye cover

- ☐ Engaged in front bumper cover -1-

### 9 - Air intake grille

- ☐ Can be unclipped only with front bumper cover removed -1-.
- ☐ Different versions. For allocation see ⇒ Electronic parts catalogue "ETKA".

### 10 - Fog light trim

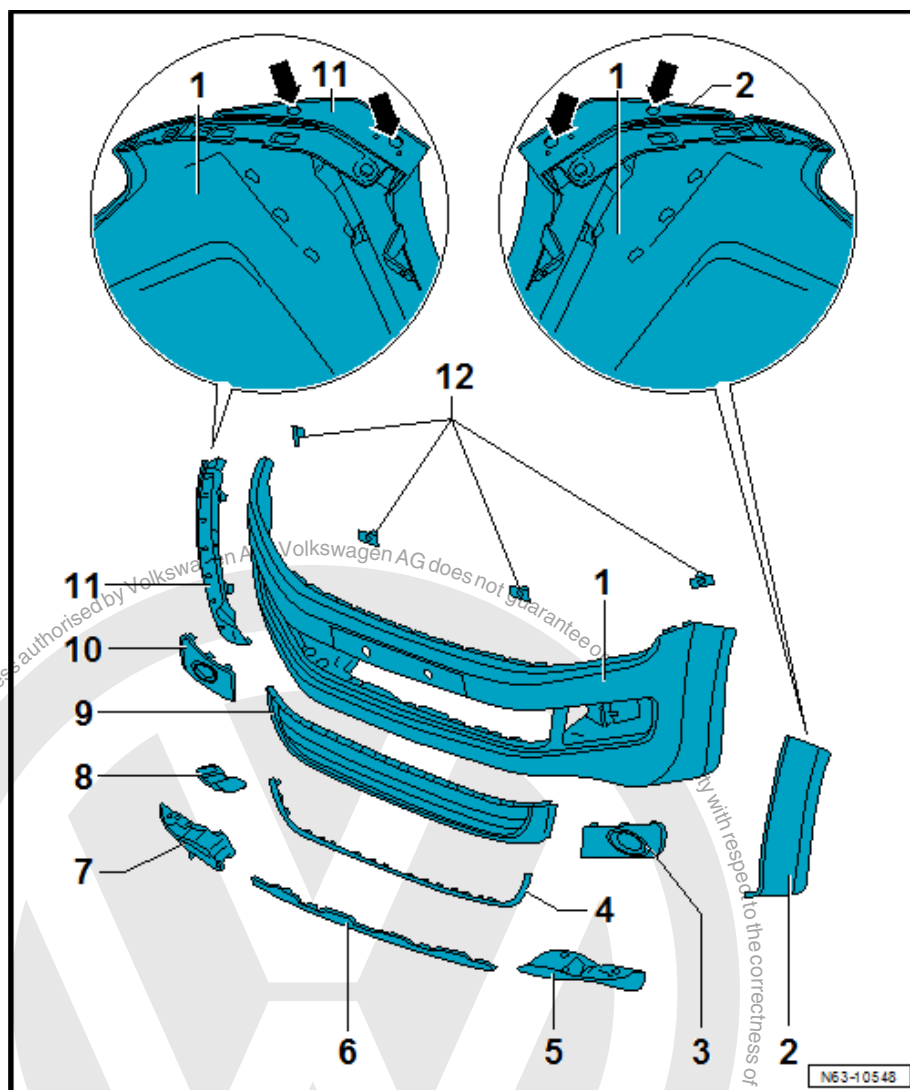
- ☐ Right.
- ☐ Pull forwards out of detent.
- ☐ Different versions. For allocation see ⇒ Electronic parts catalogue "ETKA".

### 11 - Right wheel arch cover

- ☐ Removing and installing ⇒ [page 239](#)
- ☐ Holes for positioning pins notes -arrows- ⇒ [page 238](#)

### 12 - Parking aid retainer

- ☐ Installing ⇒ [page 235](#).







### 1.2.3 Assembly overview - front bumper cover, add-on pieces, PR No. "OFX"

#### 1 - Front bumper cover

- ☐ Removing and installing  
⇒ [page 236](#)

#### 2 - Left wheel arch trim

- ☐ Removing and installing  
⇒ [page 239](#).

#### 3 - Fog light trim

- ☐ Left.
- ☐ Pull forwards out of detent.
- ☐ Different versions. For allocation see ⇒ Electronic parts catalogue "ETKA".

#### 4 - Decorative trim

- ☐ Can be unclipped only with front bumper cover removed -1-.

#### 5 - Front spoiler

- ☐ Left.
- ☐ Can be unclipped only with front bumper cover removed -1-.

#### 6 - Front spoiler

- ☐ Centre.
- ☐ Can be unclipped only with front bumper cover removed -1-.

#### 7 - Front spoiler

- ☐ Right.
- ☐ Can be unclipped only with front bumper cover removed -1-.

#### 8 - Towing eye cover

- ☐ Engaged in front bumper cover -1-.

#### 9 - Air intake grille

- ☐ Can be unclipped only with front bumper cover removed -1-.
- ☐ Different versions. For allocation see ⇒ Electronic parts catalogue "ETKA".

#### 10 - Fog light trim

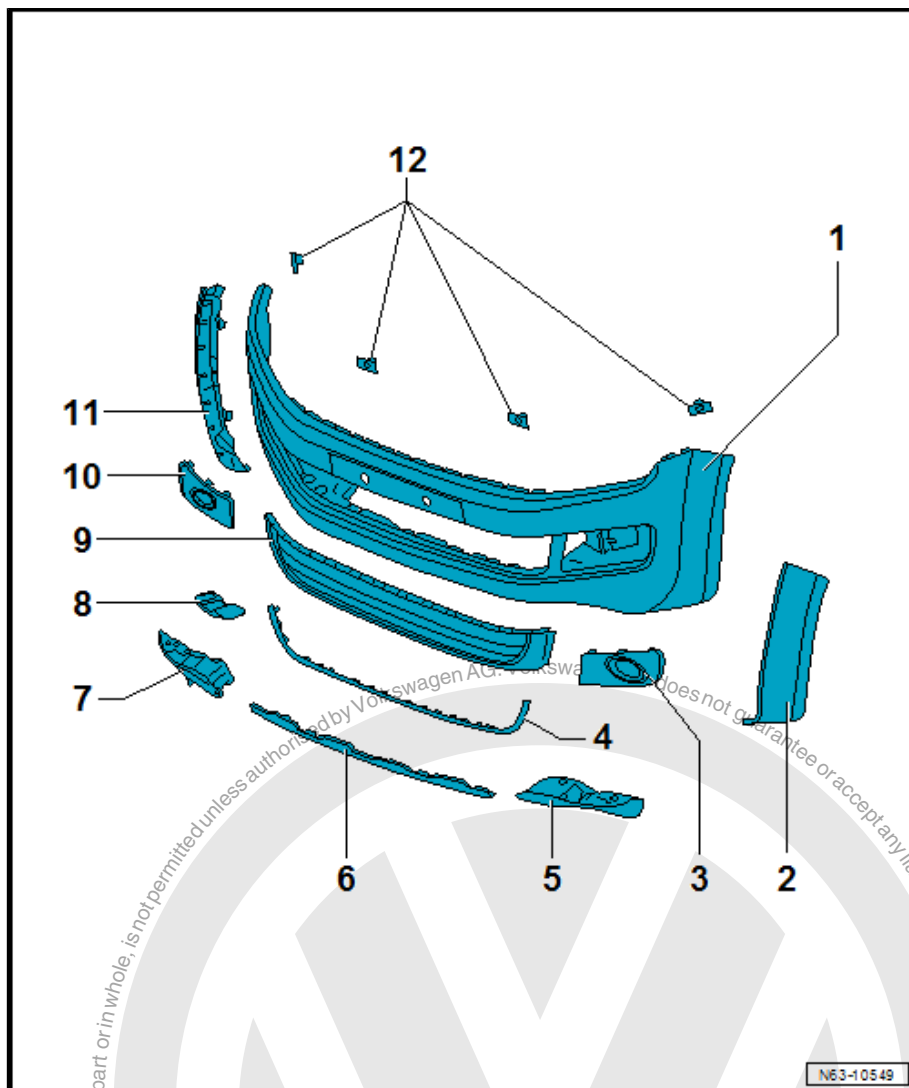
- ☐ Right.
- ☐ Pull forwards out of detent.
- ☐ Different versions. For allocation see ⇒ Electronic parts catalogue "ETKA".

#### 11 - Right wheel arch cover

- ☐ Removing and installing ⇒ [page 239](#).

#### 12 - Parking aid retainer

- ☐ Installing ⇒ [page 235](#).







### 1.3 Assembly overview - wheel arch trim, bumper cover

#### 1 - Wheel arch cover, bumper cover

- ☐ Removing and installing  
⇒ [page 239](#)

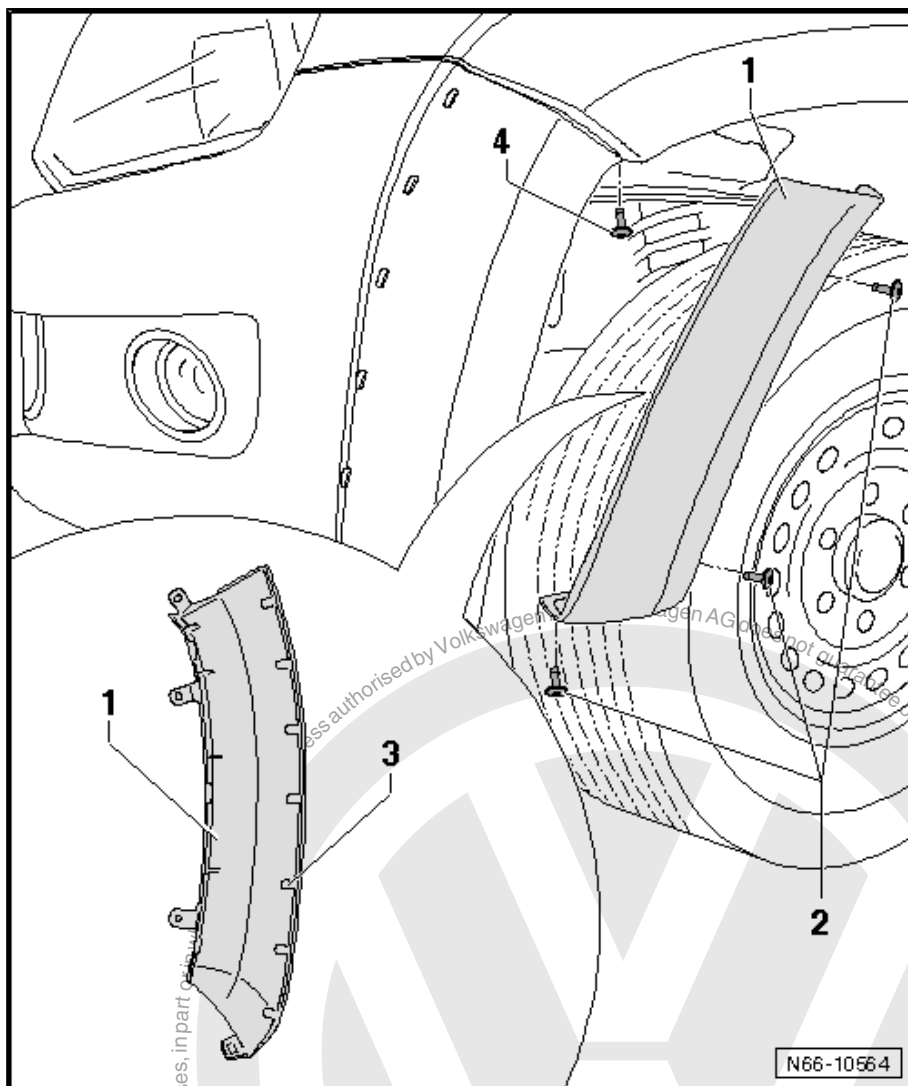
#### 2 - Bolt

- ☐ Qty. 2
- ☐ Specified torque: 2.0 Nm

#### 3 - Mounting lugs

#### 4 - Bolt

- ☐ Points upwards.
- ☐ Specified torque: 6.0 Nm







## 1.4 Assembly overview - parking aid retainer



### Note

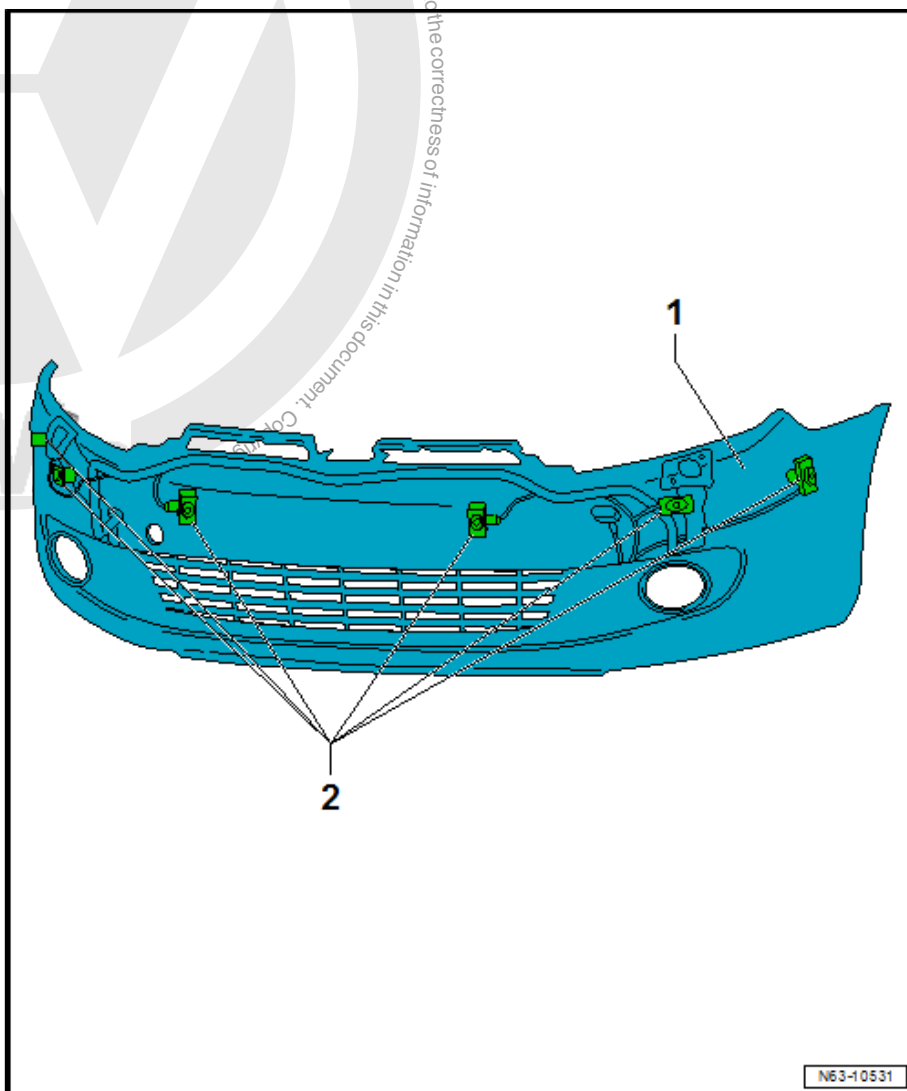
Observe slight deviations in the front bumper cover and parking aid brackets depending on model version.

### 1 - Front bumper cover

- ☐ Removing and installing  
⇒ [page 236](#) .

### 2 - Parking aid senders in front bumper cover

- ☐ Installing brackets for parking aid system  
⇒ [page 242](#)
- ☐ Front left parking aid sender -G255-
- ☐ Front inner left parking aid sender -G254-
- ☐ Front inner right parking aid sender -G253-
- ☐ Front right parking aid sender -G252-
- ☐ General information and work instructions for the parking aid can be found in ⇒ Electrical system; Rep. gr. 94 ; Parking aid .







## 1.5 Assembly overview - substructure components

### 1 - Guide bracket

- ☐ Laterally on left and right wing
- ☐ Removing:
  - Prise out clip -2- using a screwdriver.

### 2 - Clip

- ☐ Qty. 2 on each side

### 3 - End plate

- ☐ For front bumper cover
- ☐ Attached to front bumper carrier

### 4 - Foam element

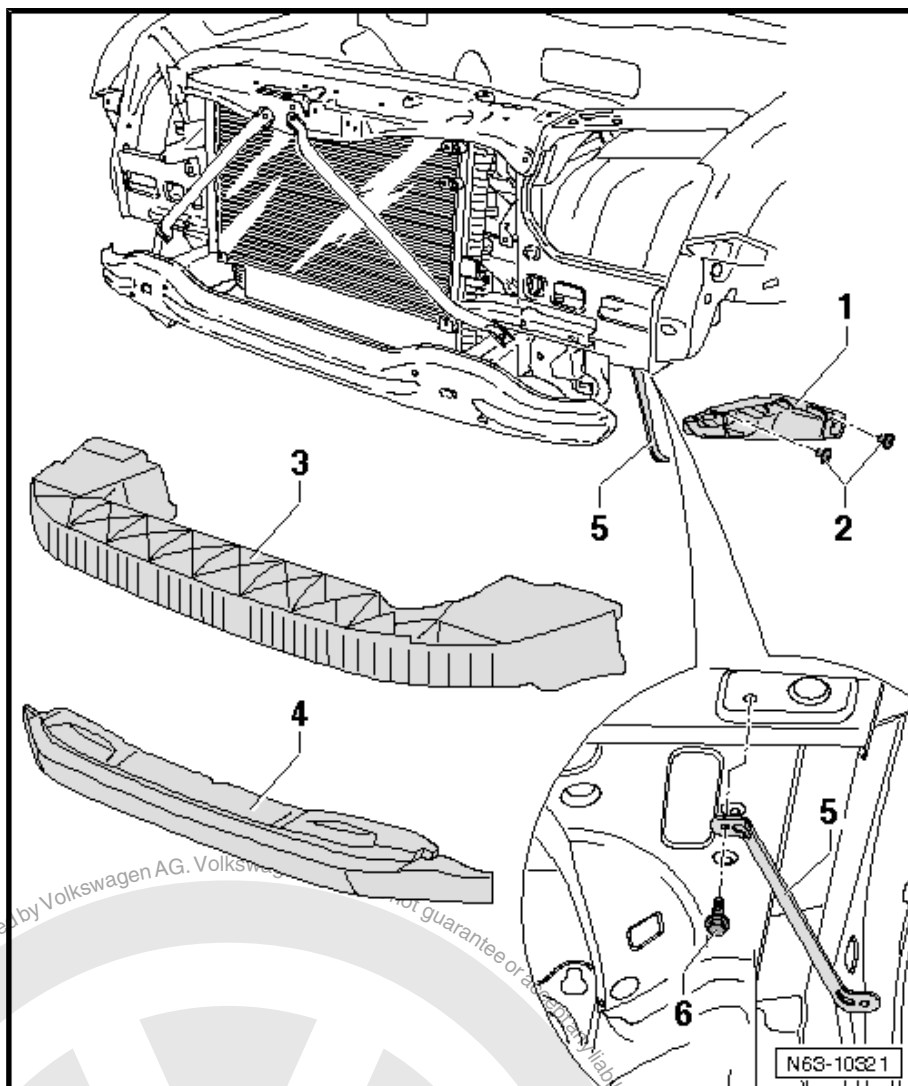
- ☐ Pedestrian protection

### 5 - Support

- ☐ Right and left
- ☐ For front bumper cover

### 6 - Bolt

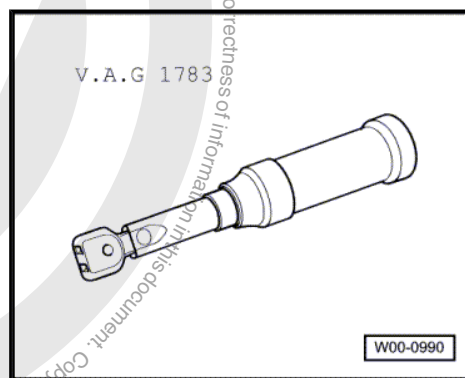
- ☐ Specified torque 8.0 Nm.



## 1.6 Removing and installing front bumper cover

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-





- ◆ *The removal and installation procedures for front bumper cover may have to be revised slightly depending on model variations.*
- ◆ *For front bumper cover with wheel arch trim, the positioning pins -arrows- in the front bumper must be noted because it is possible that different sorts have been fitted ⇒ page 238.*



- Remove fog light trims on left and right ⇒ [page 231](#) .
- Prise out clip -5- using a screwdriver.
- Remove bolts -2- on left and right sides in area of wheel housing liner.
- Unclip clip -6-(aligned upward) on left and right.
- Remove bolts -3- and -4- from front.
- Remove bolts -7- and -8- on left and right from below.
- With help of a second mechanic pull front bumper cover -1- parallel off vehicle.

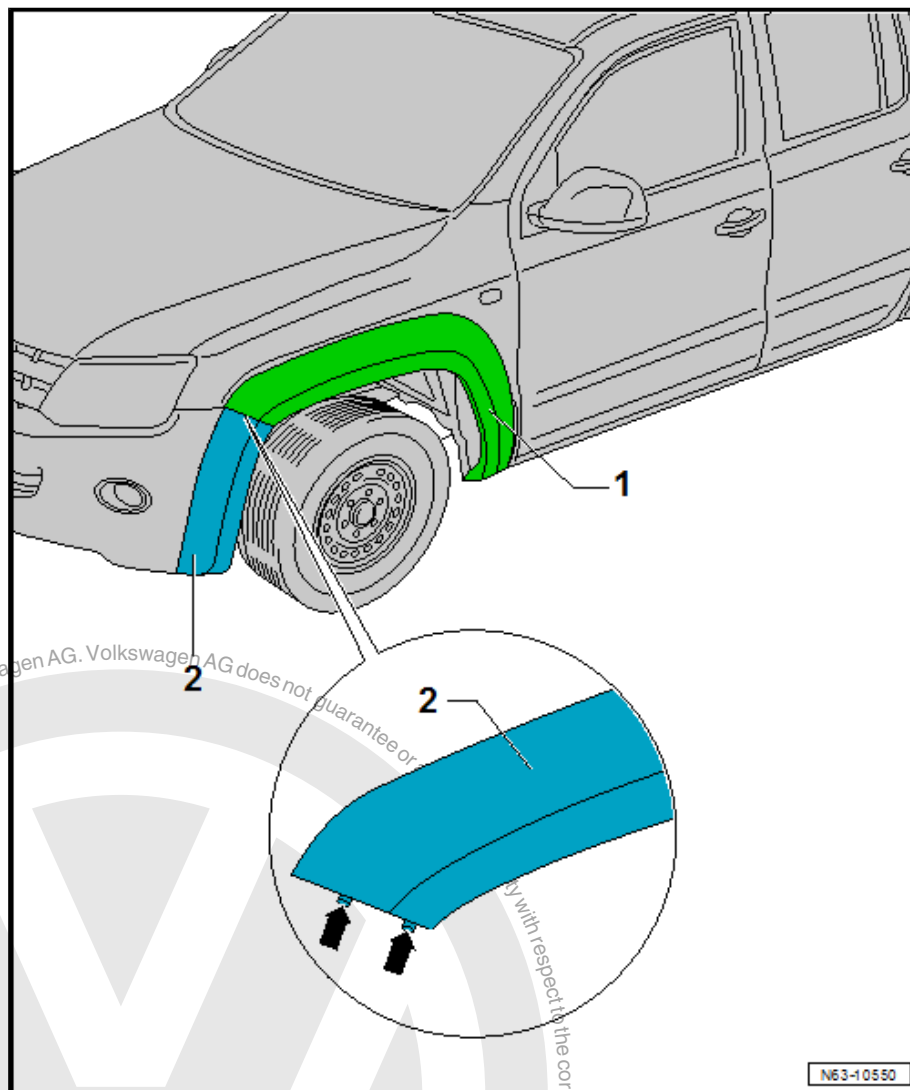




- Disconnect washer fluid hose connector (if present) ⇒ Electrical system; Rep. gr. 92 ; Headlight washer system

General information and work instructions for the parking aid can be found in ⇒ Electrical system; Rep. gr. 94 ; Parking aid .

### Installing



Install in reverse order of removal. When doing this, observe the following:



#### Note

- ◆ When positioning front bumper cover, ensure it is parallel to wing.
- ◆ Depending on the wheel arch on the front bumper cover -2- and on the wing -1-, the positioning pins -arrows- must be removed. It is possible that different sorts of pins have been fitted.
- Ensure joints are parallel and shut lines are equal ⇒ Body Repairs; Rep. gr. 00 ; Body gaps; Body, front.

### Specified torques

Specified torque of bolts ⇒ [page 230](#)

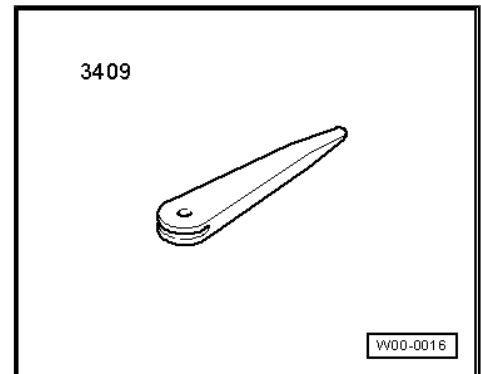




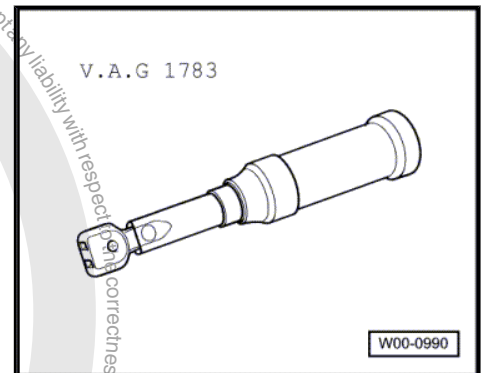
## 1.7 Removing and installing wheel arch trim, front bumper cover

Special tools and workshop equipment required

- ◆ Removal wedge -3409-



- ◆ Torque wrench -V.A.G 1783-



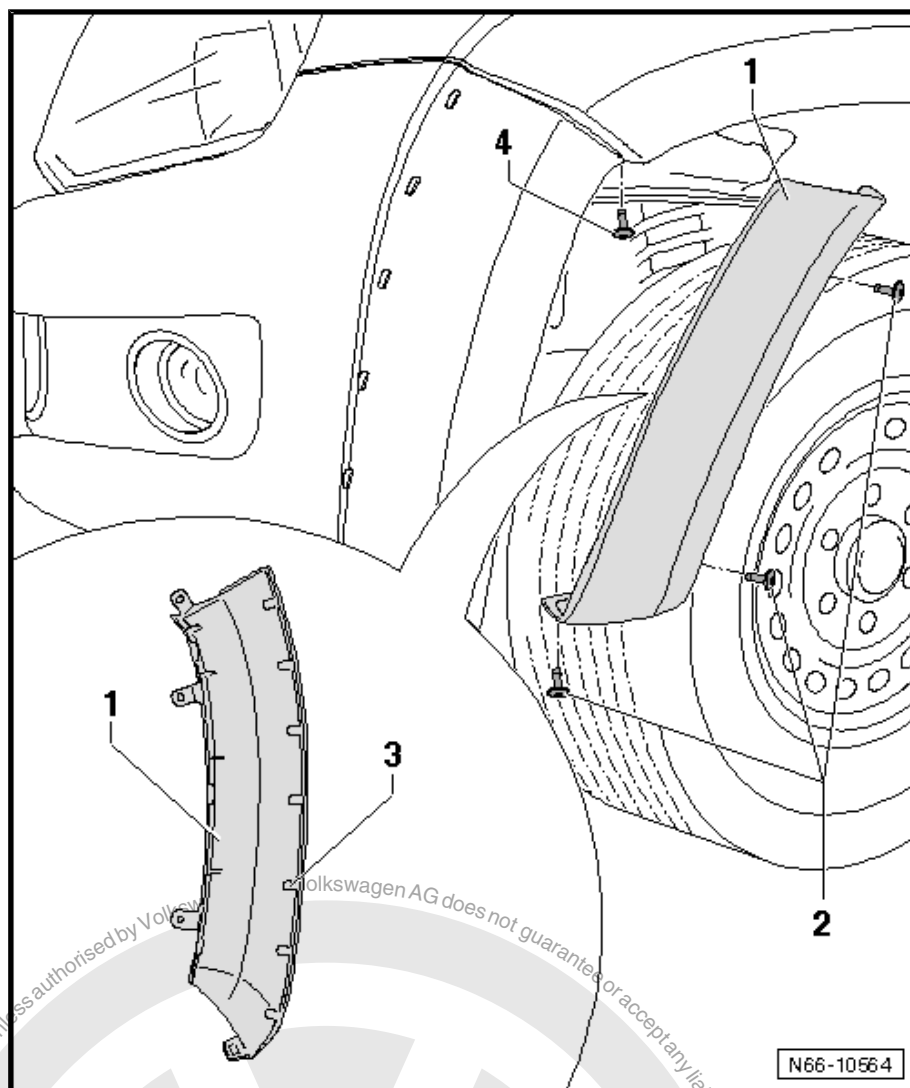
### Removing



#### Note

- ◆ The removal and installation procedure is for the left side. The right side is similar.
- ◆ Front bumper cover wheel arch trim -1- cannot be removed without damaging it.





- Remove bolts -2- and -4- (pointing upwards).
- Warm wheel arch trim, front bumper cover, -1- with hot air blower -V.A.G 1416- before removing.
- Lift one corner of wheel arch trim, front bumper cover, -1- using removal wedge -3409-.
- Grip under wheel arch trim, front bumper cover, -1- and carefully pull it off front bumper cover.

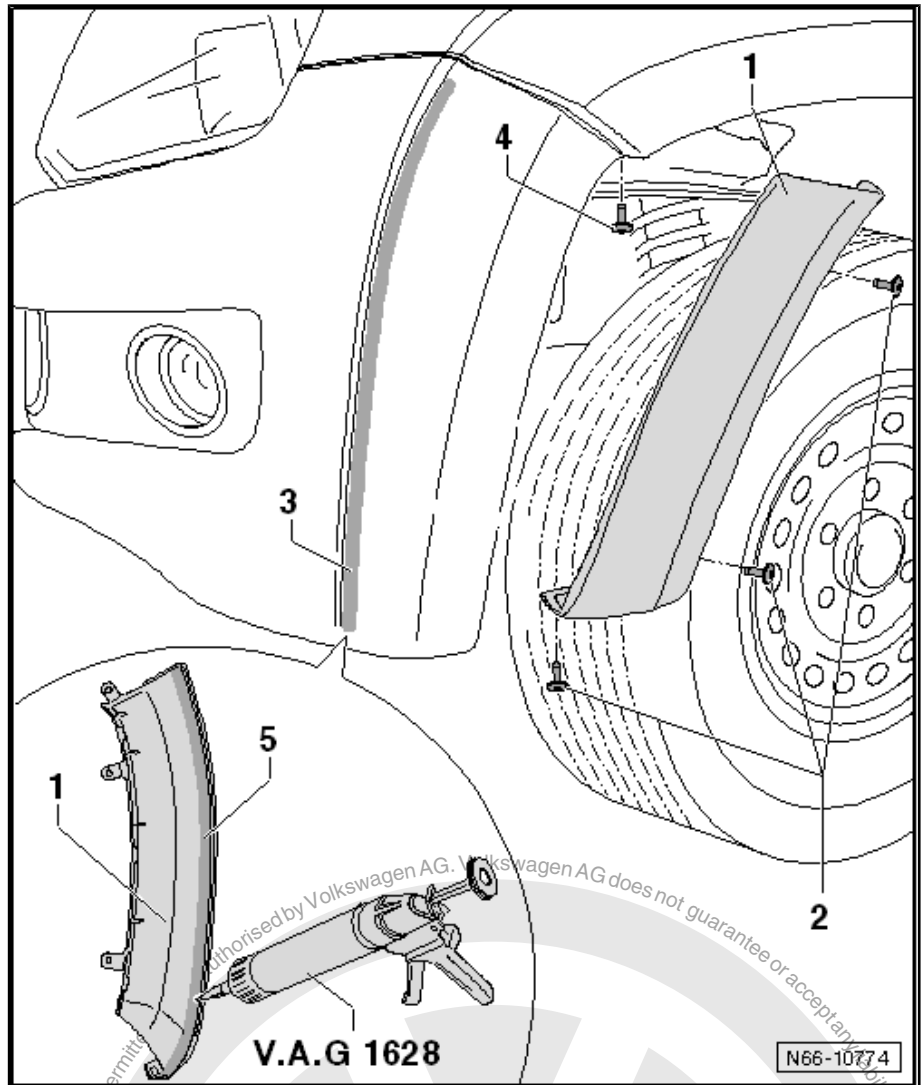


#### Note

The mounting lugs -3- break off.

#### Installing





Installation instructions for wheel arch trims ⇒ [page 313](#) .

Preparing new add-on part for bonding ⇒ [page 314](#) .

Preparing body component for bonding ⇒ [page 314](#) .

Installation instructions ⇒ [page 315](#) .

Observe minimum curing period ⇒ [page 316](#) .

- Apply glass/paint primer -D 009 200 02- to bonding surface -3- of front bumper cover and allow to dry.
- The mounting lugs must be completely removed from the wheel arch trim, front bumper cover, -1-.
- Using cartridge gun -V.A.G 1628-, apply bead -5- of 1-component glass adhesive -DA 009 100 A2- along entire length of wheel arch trim -1-.

**Cross section of adhesive bead: -width- = approx. 5 mm,  
-height- = approx. 8 mm**

- Position wheel arch trim, front bumper cover, -1- on front bumper cover and press on firmly.
- Position bolts -2- and -4- (pointing upwards) and tighten.





#### Note

Check fit of wheel arch trim -1-.

#### Specified torques

Specified torque of bolts ⇒ [page 234](#) .

### 1.8 Repairing bumper cover



#### Note

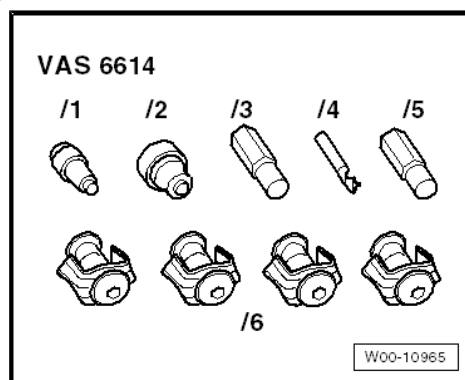
If front bumper cover is damaged, determine whether plastic can be repaired before renewing bumper.

Description under: ⇒ General Information; Body Repairs, General Body Repairs ; Plastic repair procedures

### 1.9 Installing brackets for parking aid system

#### Special tools and workshop equipment required

- ♦ Installation tool for PDC bracket -VAS 6614-



#### Materials

- ♦ Cleaning solution -D 009 401 1) 1 04-

1) Observe manufacturer's instructions enclosed in the packaging.

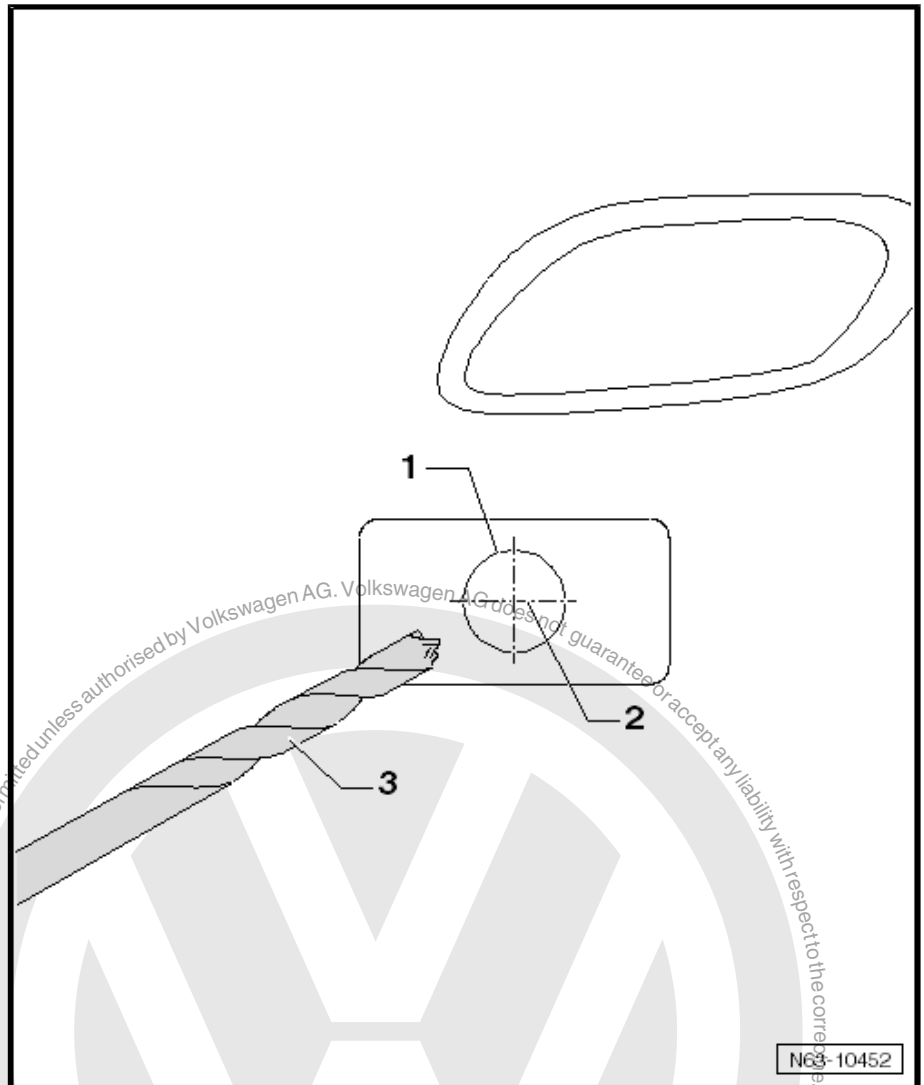
#### Installing brackets



#### Note

The brackets are installed after the bumper cover has been painted.

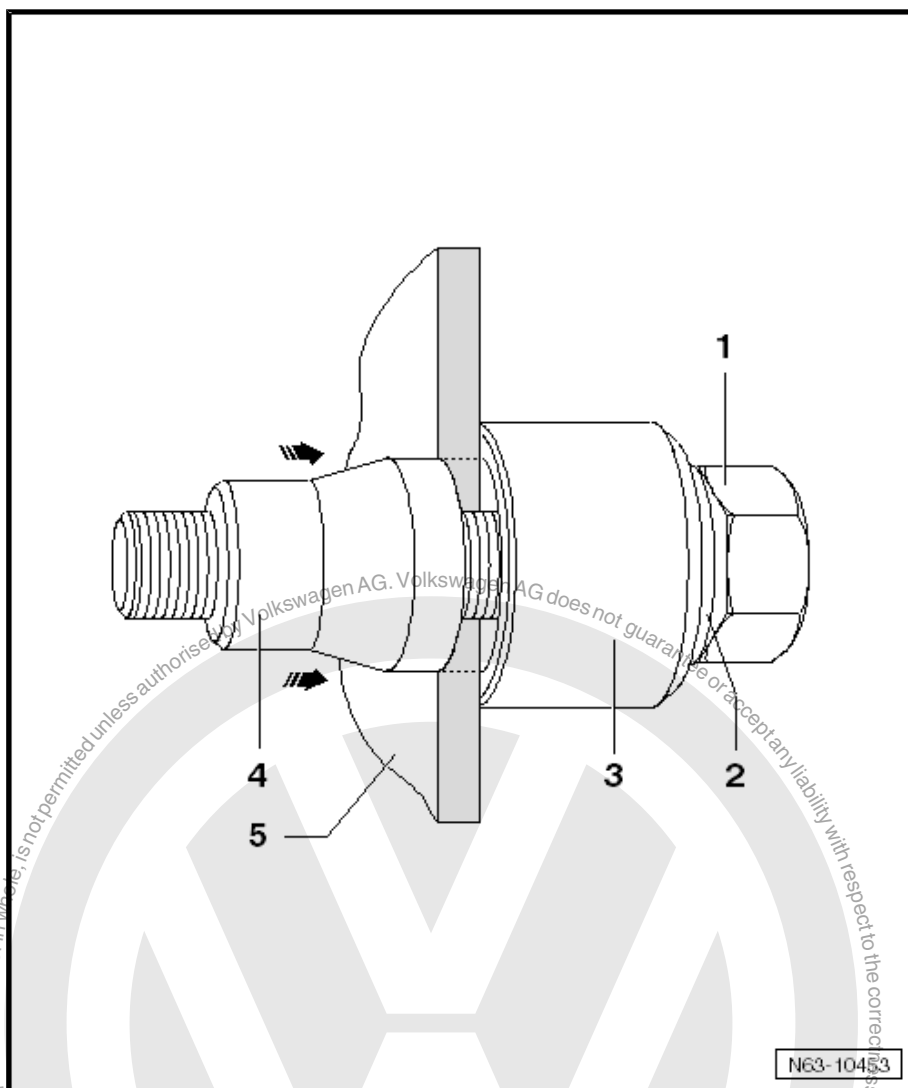




The 4 markings for a bracket -1- can be found on the inside of the bumper cover.

- If there are no markings, the centre point -2- must be determined.
- The holes must be drilled from the inside to the outside with the drill in the tool kit -3-.





- Set hole puncher in position with bolt head -1-, washer -2- and thrust bearing -3- from inside bumper cover -5-.
- Screw on punch -4-, not quite as far as bumper cover.
- Press punch -4- against bumper cover.
- Tighten hole puncher -1-.

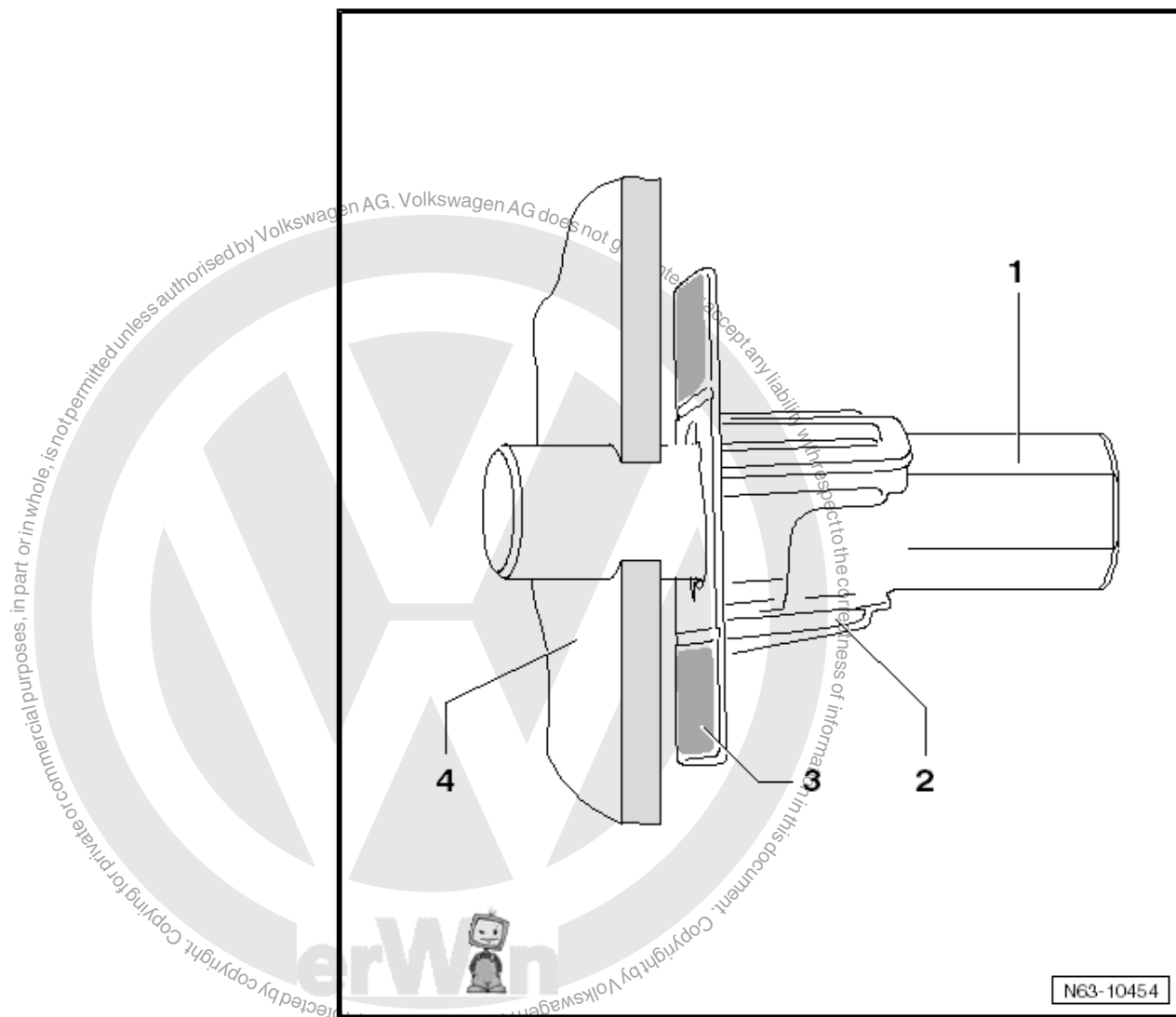


**Note**

*The punch -4- must not turn on the paint of the bumper cover.*

- Pull the punch -4- through the material of the bumper cover -5- -arrows- by turning the bolt head -1-.
- Remove hole puncher and make the next holes.





- Thoroughly clean bonding surfaces on bumper cover -4-.
- Push bracket -2- onto centring pin -1-.
- Pull backing off double-sided adhesive tape on bracket.
- Insert centring pin -1- into hole until the bracket is touching the bumper cover -4-.
- Press bracket on forcefully in area of bonding surface -3-.
- Removing centring pin and repeat the procedure for all brackets.
- Further work can be carried out on bumper cover only after minimum curing period ⇒ [page 245](#) .

#### Minimum curing period

Do not carry out any further work on the bumper cover or brackets until the minimum curing period of 2 hours has expired.

The minimum curing period must be observed so that the adhesive tape can develop its full adhesive strength.

In this time, the bumper cover must remain where it is and should not be moved.





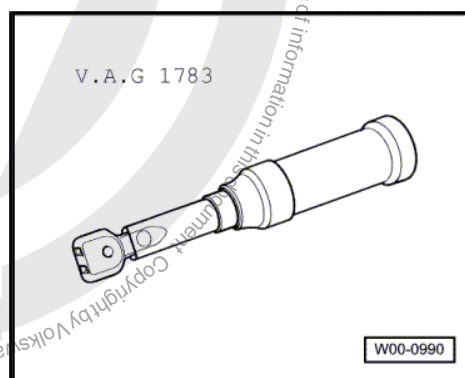
## 2 Rear bumper

- ⇒ [“2.1 Assembly overview - rear bumper”, page 246](#)
- ⇒ [“2.2 Assembly overview - bottom step”, page 248](#)
- ⇒ [“2.3 Assembly overview - rear bumper cover step”, page 248](#)
- ⇒ [“2.4 Assembly overview - closing plate”, page 250](#)
- ⇒ [“2.5 Assembly overview - rear bumper carrier to 2011”, page 250](#)
- ⇒ [“2.6 Assembly overview - rear bumper carrier from 2011”, page 251](#)
- ⇒ [“2.7 Repairing bumper cover”, page 253](#)

### 2.1 Assembly overview - rear bumper

#### Special tools and workshop equipment required

- ◆ Torque wrench - V.A.G 1783-



#### Note

*The removal and installation procedures for rear bumper cover may have to be revised slightly depending on model variations.*





### 1 - Rear bumper cover

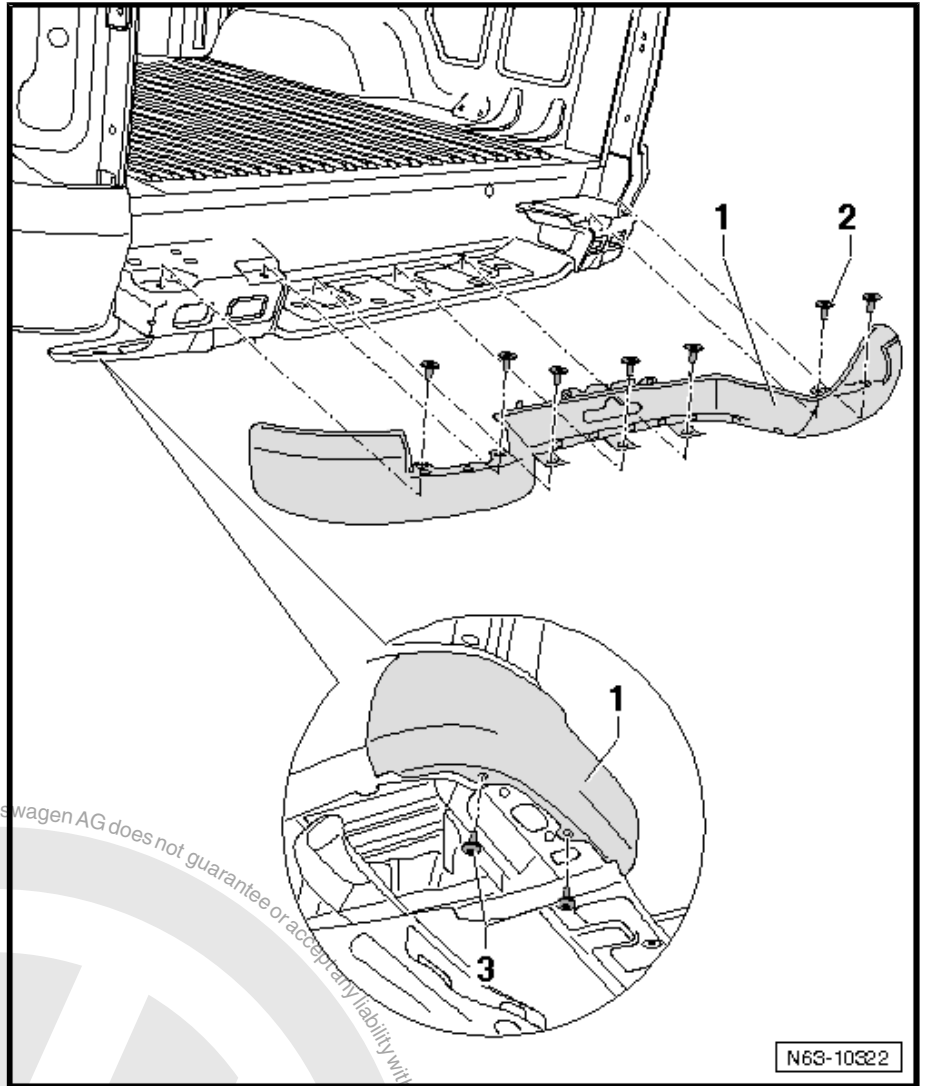
- ☐ Removing:
- Remove bottom step  
⇒ [page 248](#).
- Remove bolts -2- and -3-
- Remove rear bumper cover.

### 2 - Bolt

- ☐ Qty. 7
- ☐ Specified torque 8 Nm.

### 3 - Bolt

- ☐ Qty. 2 on each side
- ☐ Specified torque 8 Nm.







## 2.2 Assembly overview - bottom step

### 1 - Rear bumper cover

- ❑ Removing and installing  
⇒ [page 246](#)

### 2 - Clip

- ❑ Qty. 2

### 3 - Bottom step

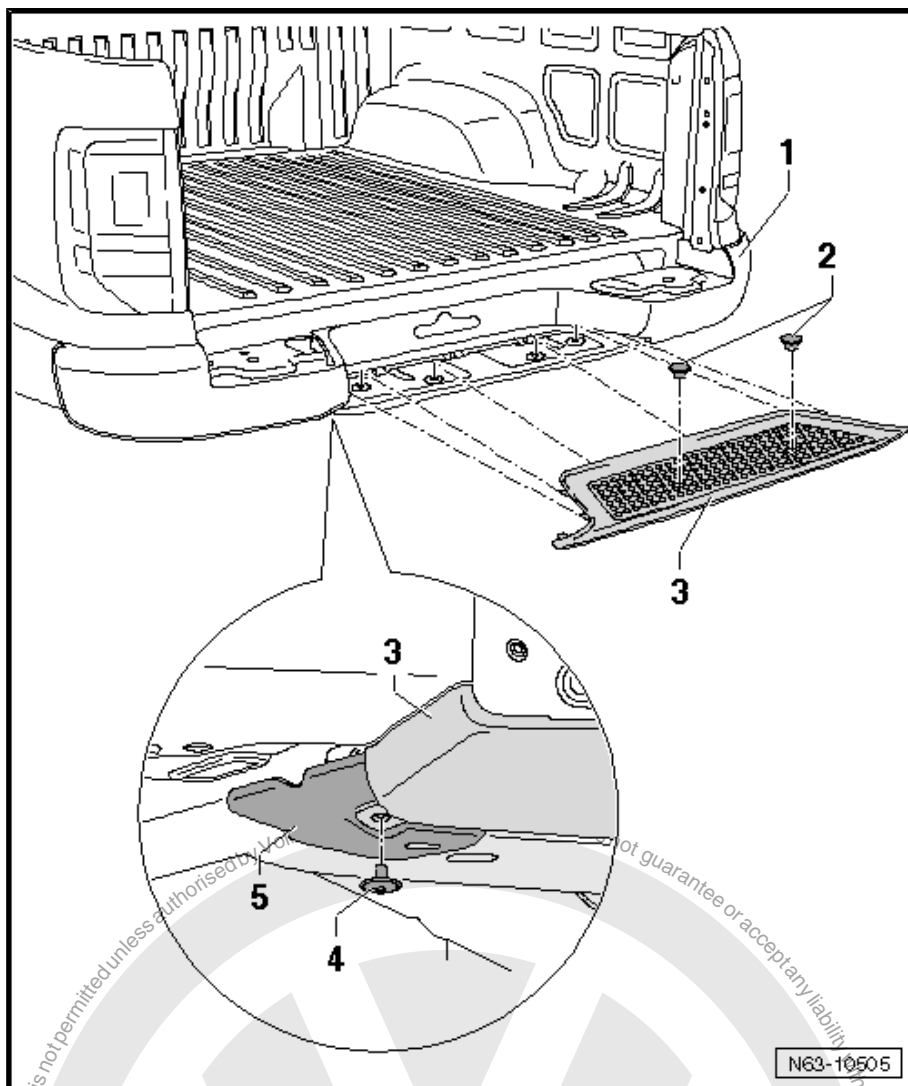
- ❑ Removing:
  - Remove rear bumper cover step  
⇒ [page 248](#).
  - Unclip clips -2- and -4- on left and right.
  - Pull rear bottom step backwards off bumper carrier.

### 4 - Clip

- ❑ Left and right.

### 5 - Cap

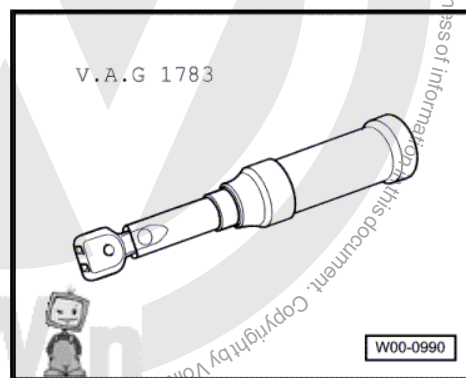
- ❑ Left and right.



## 2.3 Assembly overview - rear bumper cover step

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-





**1 - Rear bumper cover**

- ☐ Removing and installing  
⇒ [page 246](#)

**2 - Rear bumper cover step**

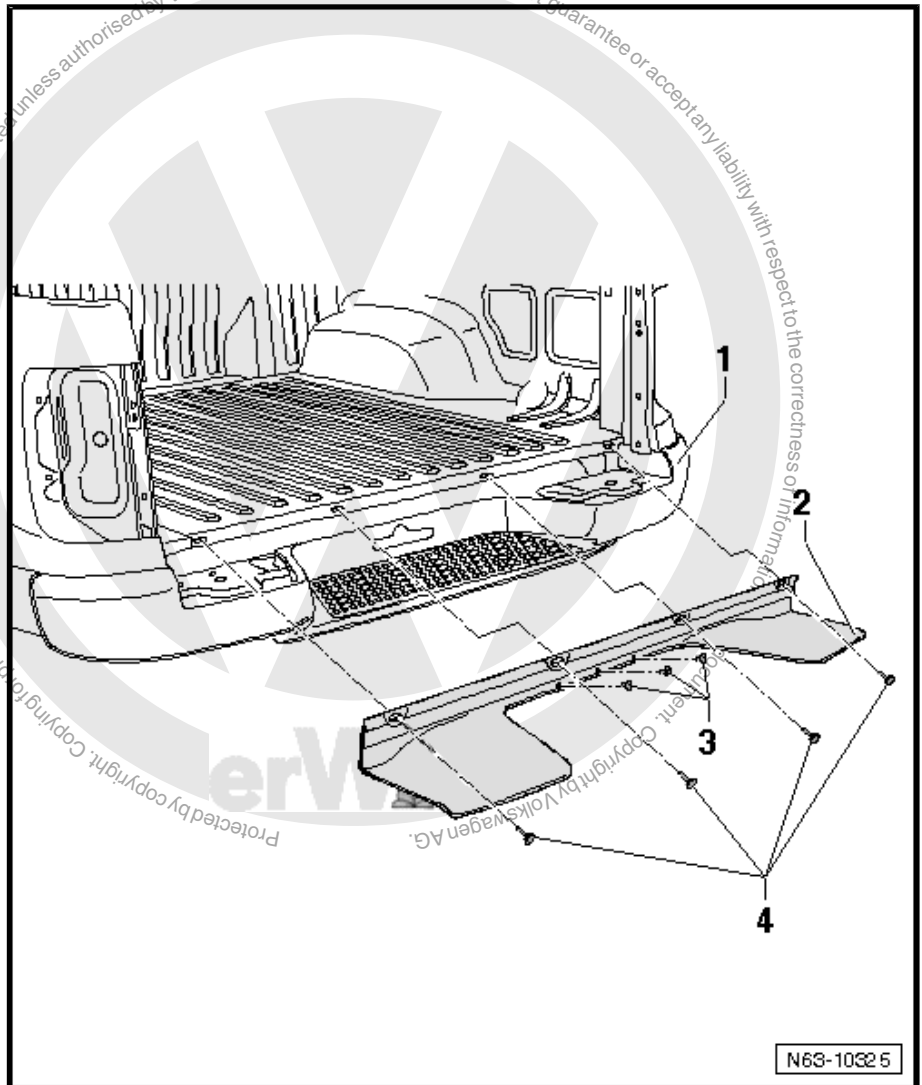
- ☐ Removing:
  - Unclip clip -3-.
  - Remove bolts -4-.
  - Remove rear bumper cover step from rear bumper carrier.

**3 - Clip**

- ☐ Qty. 3

**4 - Bolt**

- ☐ Qty. 4 on each side
- ☐ Specified torque 4.5 Nm.







## 2.4 Assembly overview - closing plate

### 1 - Rear bumper carrier

- ☐ Removing and installing to 2011 ⇒ [page 250](#)
- ☐ Removing and installing from 2011 ⇒ [page 251](#)

### 2 - Closing plate right

- ☐ Secured with adhesive strips -4-

### 3 - Closing plate left

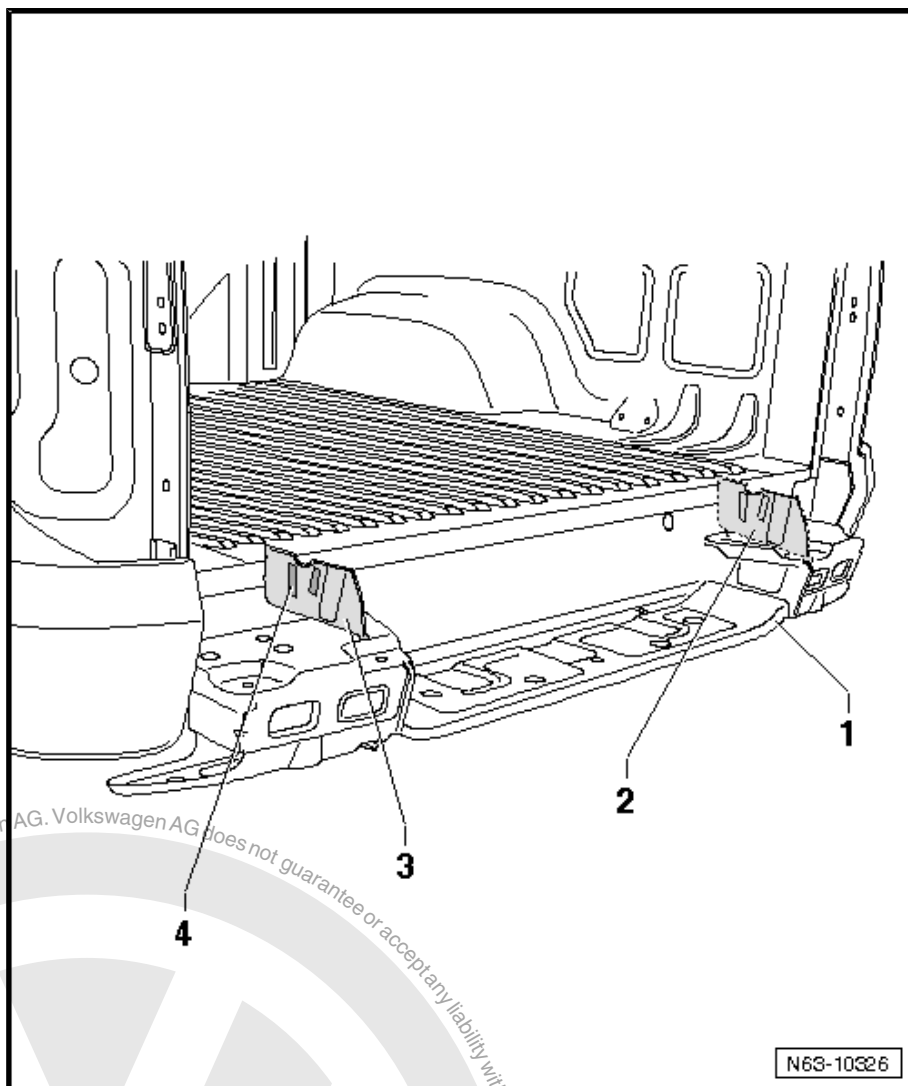
- ☐ Secured with adhesive strips -4-

### 4 - Adhesive strips

- ☐ Qty. 2 on each side



Note



## 2.5 Assembly overview - rear bumper carrier to 2011

### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-

V.A.G 1331



W00-0427





## Note

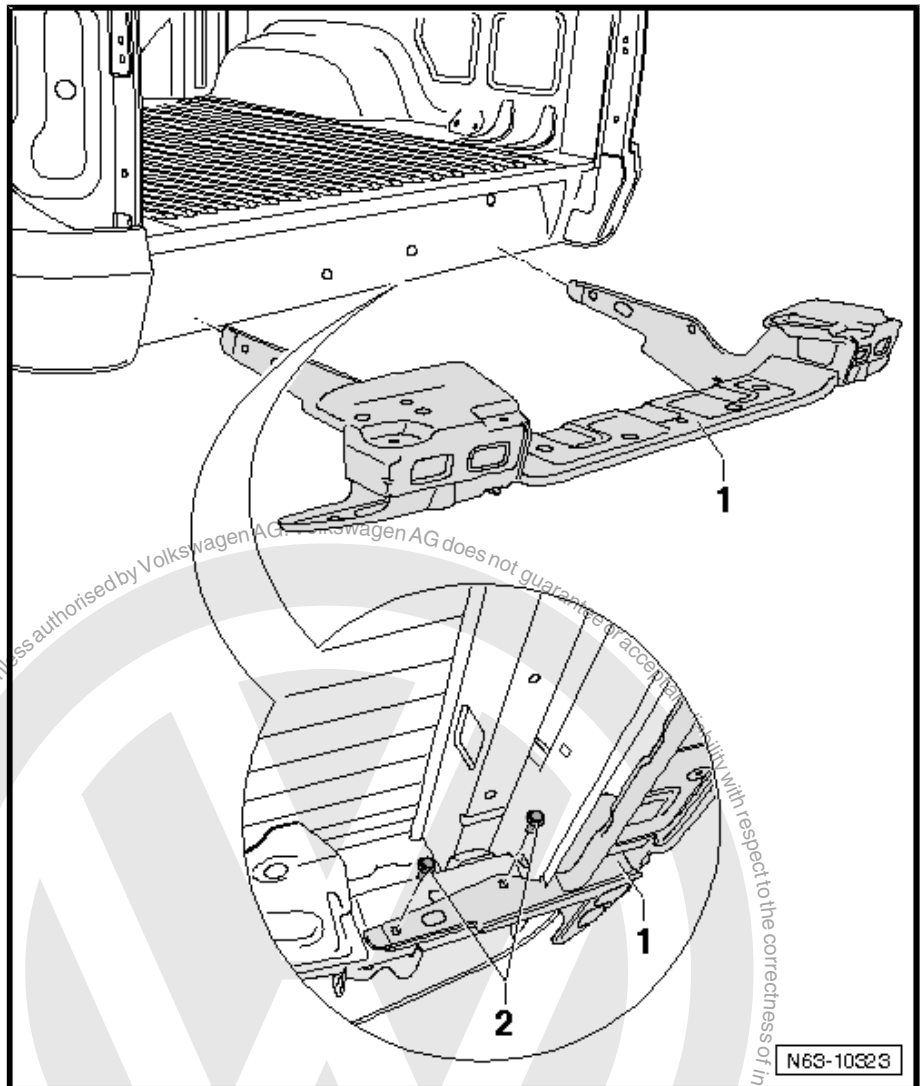
- ◆ The assembly overview shows a rear bumper carrier without a towing bracket. The rear bumper carrier with towing bracket is analogous.
- ◆ Removing and installing towing bracket ⇒ [page 355](#).
- ◆ Observe minor differences among rear bumper carriers depending on model year.

### 1 - Rear bumper carrier

- ☐ Without trailer preparation
- ☐ Removing:
  - Remove rear bumper cover ⇒ [page 246](#).
  - Remove bolts -2- on right and left.
  - With help from a second mechanic, remove rear bumper carrier.

### 2 - Bolt

- ☐ Qty. 2 on each side
- ☐ Specified torque: 90 Nm + 90°



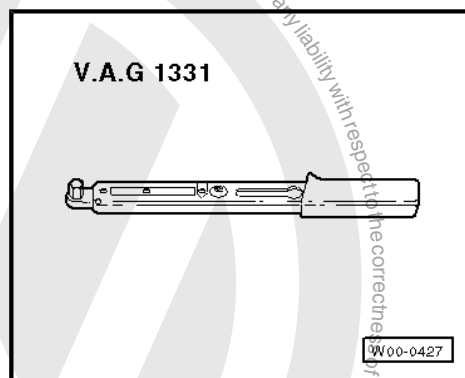
## 2.6 Assembly overview - rear bumper carrier from 2011

Special tools and workshop equipment required





- ◆ Torque wrench -V.A.G 1331-



### Note

- ◆ The assembly overview shows a rear bumper carrier without a towing bracket. The rear bumper carrier with towing bracket is analogous.
- ◆ Removing and installing towing bracket ⇒ [page 355](#).
- ◆ Observe minor differences among rear bumper carriers depending on model year.

### 1 - Rear bumper carrier

- ☐ Without trailer preparation
- ☐ Removing:
  - Remove rear bumper cover ⇒ [page 246](#).
  - Remove bolts -2- on right and left.
  - With help from a second mechanic, remove rear bumper carrier.
- ☐ Installing:
  - Install in reverse order of removal. When doing this, observe the following:
  - Observe fitting sequence 1-4!

### 2 - Hexagon nut

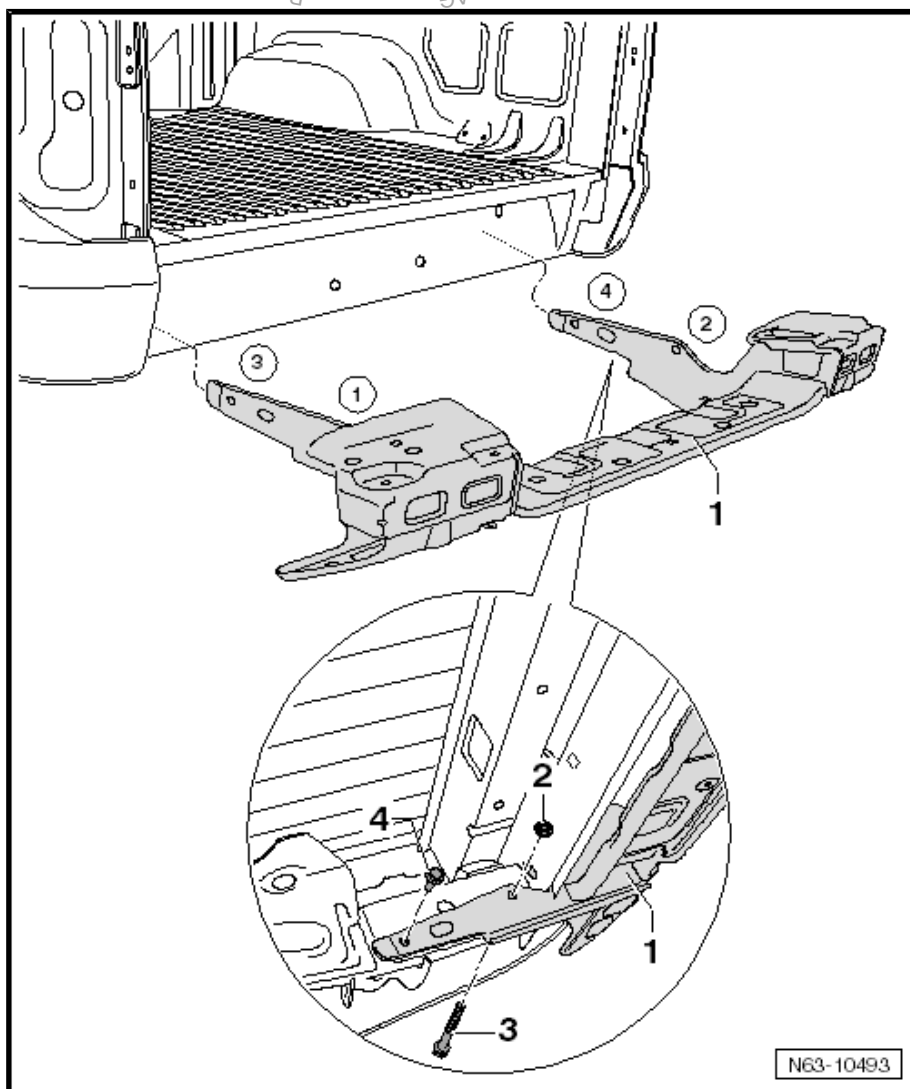
- ☐ Left and right

### 3 - Bolt

- ☐ Left and right
- ☐ Specified torque: 90 Nm + 180°

### 4 - Bolt

- ☐ Left and right
- ☐ Specified torque: 90 Nm + 90°







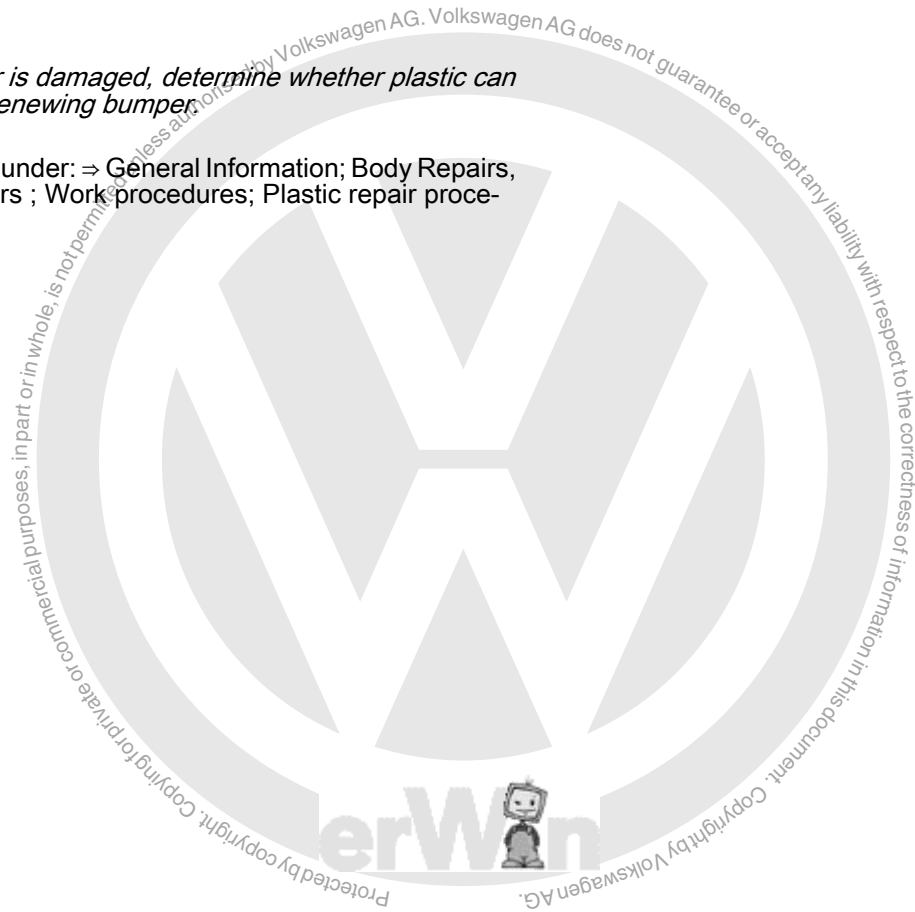
## 2.7 Repairing bumper cover



### Note

*If rear bumper cover is damaged, determine whether plastic can be repaired before renewing bumper.*

Details can be found under: ⇒ General Information; Body Repairs, General Body Repairs ; Work procedures; Plastic repair procedures .







## 64 – Glazing

### 1 Repair instructions

#### 1.1 Minimum curing period



##### WARNING

*Special standards must be adhered to when replacing bonded windows. One of these standards is, for example, that a freshly bonded windscreen must comply with the safety requirements, even in an accident, following the minimum prescribed curing period.*

##### 2-component adhesive

The minimum curing time for the 2-component adhesive is 2 hours for all windows.

The operational safety of the vehicle is restored completely after 2 hours.

##### 1-component adhesive

The minimum curing time for the 1-component adhesive is 16 hours for all windows.

The vehicle is definitely safe to operate again after 16 hours if the 1-component adhesive is used.

##### For 2-component adhesive and 1-component adhesive

Irrespective of which adhesive is used, the vehicle can be moved again half an hour after the window has been installed.

Minimum curing period is the time from bonding the window until vehicle may be used (operational safety). During this time, the vehicle must stand on a level surface at room temperature (at least 15 °C).



##### WARNING

*It is safe to use vehicle only after the curing period is completed.*

#### 1.2 Window repair



##### Note

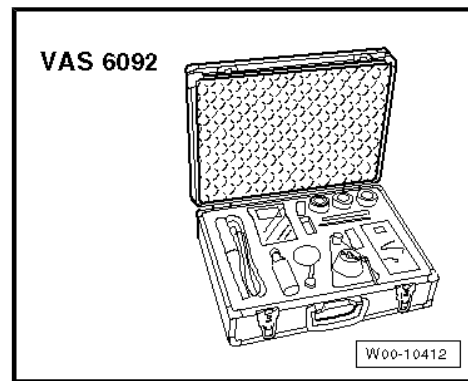
- ◆ *If windscreen is damaged, determine whether glass can be repaired before replacing.*
- ◆ *Damaged windscreens can be repaired with the window repair kit -VAS 6092- .*
- ◆ *This damage must not exceed a certain size or position.*
- ◆ *Each window repair kit comes with a set of instructions.*

##### Special tools and workshop equipment required





◆ Window repair kit -VAS 6092-



## 1.3 Installation instructions

⇒ ["1.3.1 Installation instructions for bonded windows", page 255](#)

⇒ ["1.3.2 Materials", page 255](#)

### 1.3.1 Installation instructions for bonded windows

- Apply adhesive material to primed area -1- or to trimmed sealant bead, holding double cartridge gun -VAS 5237- at right angle to window.



**Note**

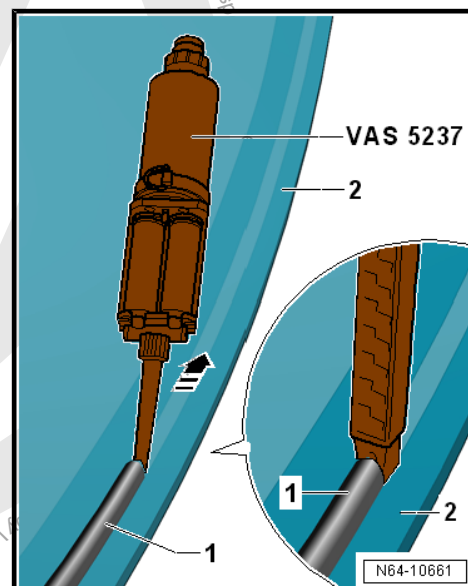
*The first 10 cm of the adhesive bead must not be used.*



**WARNING**

**Window must be installed within 10 minutes, or adhesive properties of glass adhesive will be impaired.**

**Adhesive bead should not be applied too thick and windows should not be pressed too forcibly on body flange. Windows no longer have sealing lips and therefore excessive adhesive will be visible in the joint area.**



- ◆ Using 2 suction lifters -V.A.G 1344- , install glass pane in window aperture, align to centre and press in onto spacing lip.
- ◆ Replace stickers (e.g. for airbag) which may be installed.

### 1.3.2 Materials



**Note**

*The part numbers of the materials can be found in the ⇒ electronic parts catalogue .*

- ◆ 2K glass adhesive 1) 2) 3) 6)
- ◆ 1K glass adhesive 1) 2) 4) 5) 6)
- ◆ Activator 1) 6)





- ◆ Glass and paint primer 1) 6)
- ◆ Cleaning solution 1) 6)
- ◆ Primer applicator 1) 6)
- ◆ Adhesive remover 1) 6)
- ◆ Cutting cord 1) 6)
- ◆ Mixing nozzle 1) 6)

1) Observe instructions for use on the information sheet provided by the manufacturer.

2) Minimum curing period ⇒ [page 254](#)

3) Double cartridge gun -VAS 5237- must be used to apply these materials.

4) Heat according to manufacturer's instructions, using cartridge heater -V.A.G 1939- .

5) Small cartridge, 180 ml, for sealing and/or when a 400 ml double cartridge alone is not sufficient.

6) The part numbers of the materials can be found in the⇒ electronic parts catalogue .

## 1.4 Preparing old undamaged windows for fitting

### Cutting back adhesive bead



#### Note

- ◆ If an undamaged window is being re-used, cut back the residual adhesive sealant to 1 to 2 mm shortly before bonding it back in. Do not damage primer and ceramic coating when doing this.
- ◆ Remaining material serves as adhesion base for newly applied adhesive sealing compound.



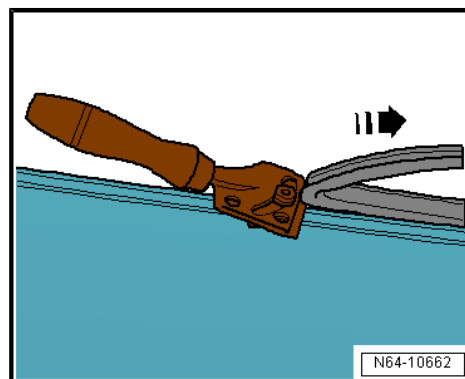
#### WARNING

**Exception:** if bonding is performed later than one day after cutting back adhesive bead, the remaining residual material must be activated with activator .

Apply activator evenly in one stroke using applicator .

Activator must not come in contact with paint, or the paintwork will be damaged.

Drying time approx. 10 minutes



#### Exception:

If bonding is not performed immediately after cutting back, the remaining residual material must be activated with activator -D 181 801 A1- .





## 1.5 Preparing new window without precoat- ing for glazing



### Note

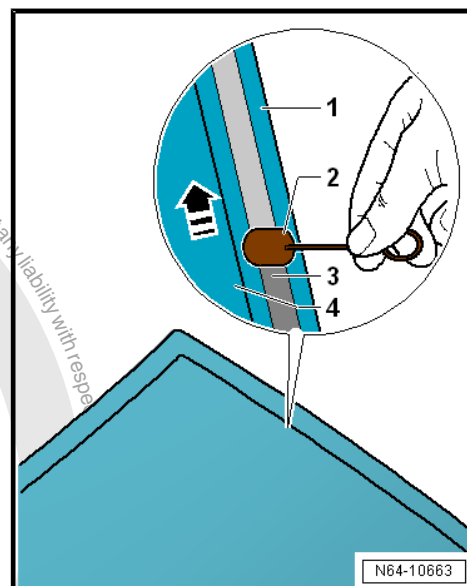
- ◆ *The area on which the adhesive bead is applied is not pre-coated or primed.*
- ◆ *The sealing lip is included with a new windscreen.*
- ◆ *No windows are precoated.*
- Clean all round edge of window over a width of 20 mm with cleaning solution -D 009 401 04- .
- Then rub edge of window dry using a lint-free cloth.



### WARNING

***The ceramic coating on the window is not glass or paint primer!  
The ceramic coating must be primed before application of ad-  
hesive sealing compound! Use only glass/paint primer  
D 009 200 02!***

- Using applicator -D 009 500 25- -1-, apply glass and paint primer -2- evenly in one pass.
- ◆ Drying time approx. 10 minutes



## 1.6 Preparing body flange for fitting



### WARNING

***Keep bonding surface free of dirt and grease.***

***Do not treat bonding surface with activator immediately after  
cutting back. Do not prime. Do not treat with cleaning solution.***





- Cut back remaining material on body flange with U-shaped blade -V.A.G 1561/3- , but do not remove completely.



#### Note

*Remaining material serves as adhesion base for newly applied adhesive sealing compound. Keep dirt and grease off of bonding surfaces.*



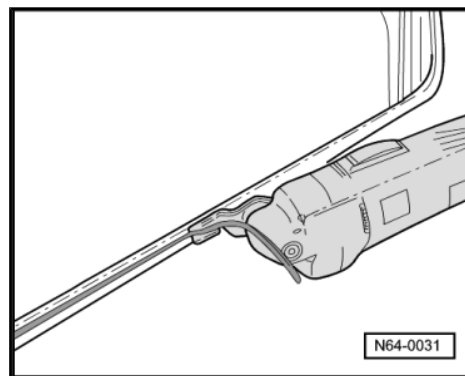
#### WARNING

**Exception: if bonding is performed later than one day after cutting back adhesive bead, the remaining residual material must be activated with activator .**

**Apply activator evenly in one stroke using applicator.**

**Activator must not come in contact with paint, or the paintwork will be damaged.**

**Drying time approx. 10 minutes**



Exception: If bonding is not performed immediately after cutting back, the remaining residual material must be activated with activator -D 181 801 A1- .

- ♦ If the window flange has been repaired or partially renewed, the area concerned must be cleaned and primed again after painting.



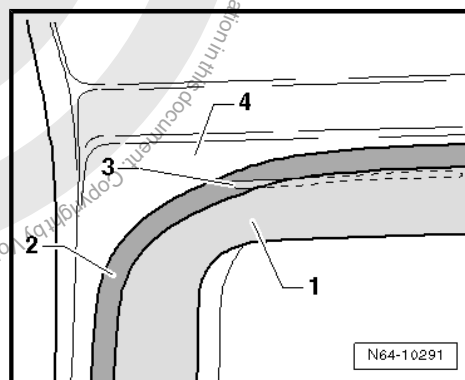
#### Note

*It is possible that a laser weld seam lies outside the area of the adhesive bead. In this case, the exposed weld seam must be sealed with glass adhesive before bonding the window.*

- If laser weld seam -3- on metal flange -4- is not covered by existing adhesive bead -1-, coat laser weld seam -3- with glass/paint primer -D 009 200 02- -3-. Then fill laser weld seam with glass adhesive -DH 009 100 A2- -1-.

#### Touching up paint damage

Paint structure must be restored according to specifications in the ⇒ "Paint" workshop manual .



## 1.7 Cleaning off excess adhesive

- Use adhesive remover -D 002 000 10- as a cleaning solution. Observe the appropriate safety precautions when performing this work.



#### WARNING

**When cleaning freshly installed glass from the inside in the vehicle, do not press glass outwards.**





- First clean painted surface as well as possible using a dry cloth. Remove residue using adhesive remover -D 002 000 10- .

**Clean plastic trim:**

- Allow adhesive sealing compound to cure (approx. 1 hour) and then pull off.







## 2 Windscreen

⇒ "2.1 Assembly overview - windscreen", page 260

⇒ "2.2 Removing and installing windscreen", page 261

### 2.1 Assembly overview - windscreen

#### 1 - Windscreen

- ❑ Removing and installing  
⇒ [page 261](#)

#### 2 - Depth stop

- ❑ Qty. 5

#### 3 - PUR adhesive sealant

- ❑ Cross section of bead:  
-width- = 6.5 mm  
-height- = 10 mm (including precoating, residual material on window glass and window flange).
- ❑ Minimum curing period  
⇒ [page 254](#).

#### 4 - Body flange

- ❑ Touch up paintwork damage ⇒ [page 258](#).

#### 5 - Windscreen adjuster

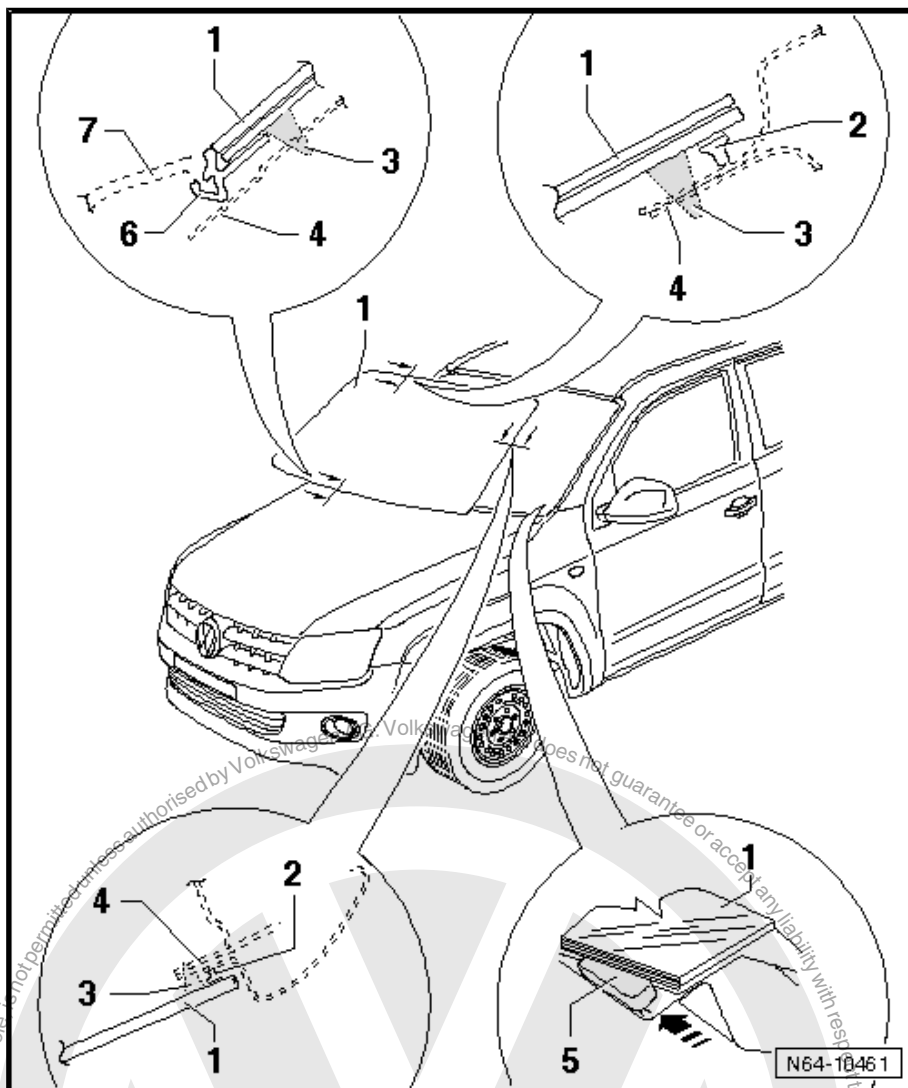
- ❑ Windscreen adjuster  
-443 845 631 A-

#### 6 - Windscreen seal

- ❑ Is part of windscreen.

#### 7 - Plenum chamber cover

- ❑ Removing and installing  
⇒ [page 12](#)







## 2.2 Removing and installing windscreen

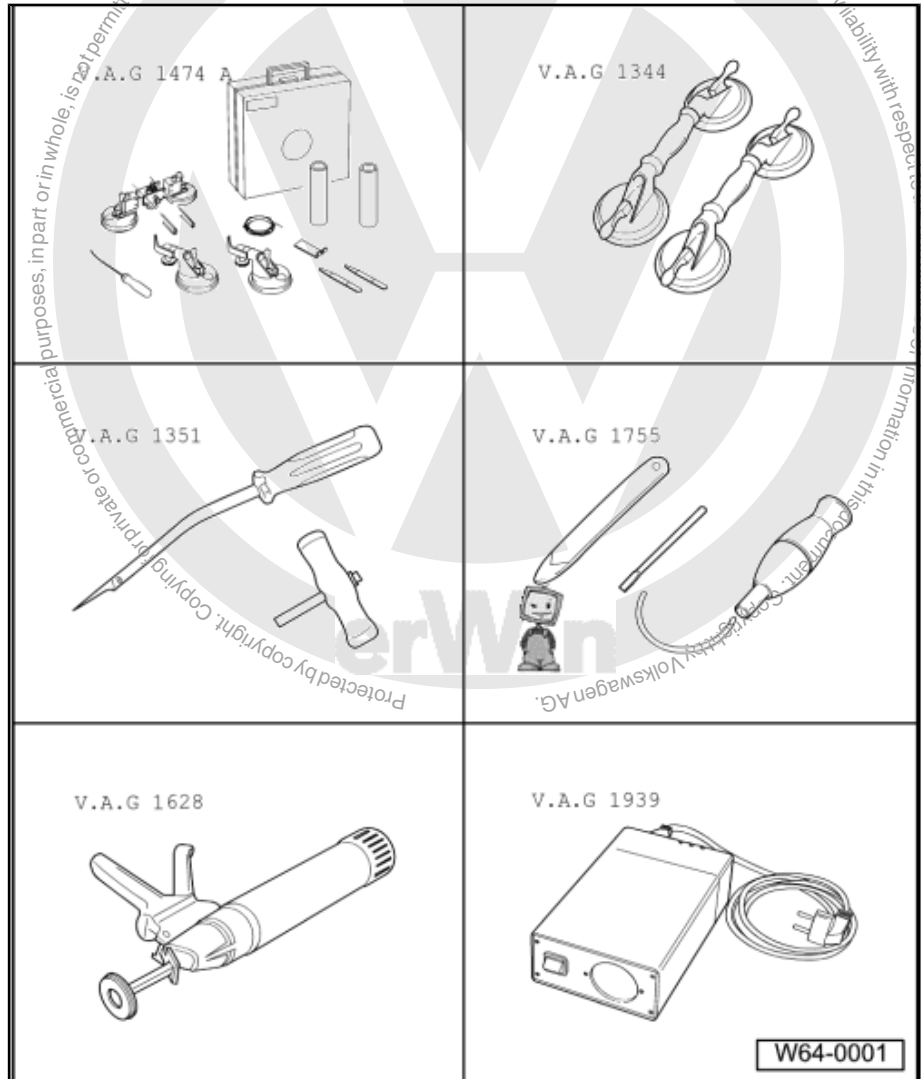


### Note

The removal of a bonded window is described using the Removal kit for flush bonded windows -V.A.G 1474 A-. The respective tools from Removal kit for flush bonded windows -VAS 6452- may also be used.

### Special tools and workshop equipment required

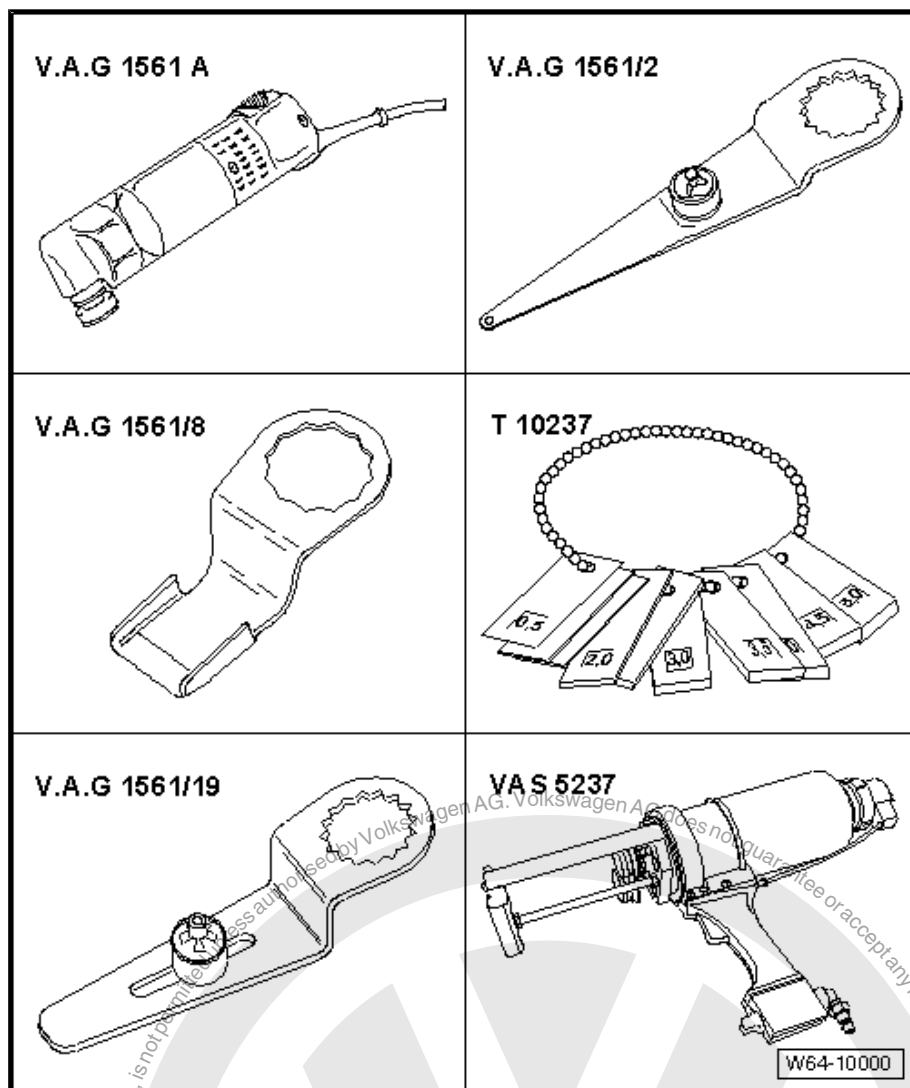
- ◆ Removal kit for flush bonded windows - V.A.G 1474 A- or Removal kit for flush bonded windows -VAS 6452-
- ◆ Suction lifter -V.A.G 1344-
- ◆ Cutting tool -V.A.G 1351-
- ◆ Windscreen removal kit - V.A.G 1755-
- ◆ Cartridge gun -V.A.G 1628-
- ◆ Cartridge heater - V.A.G 1939-







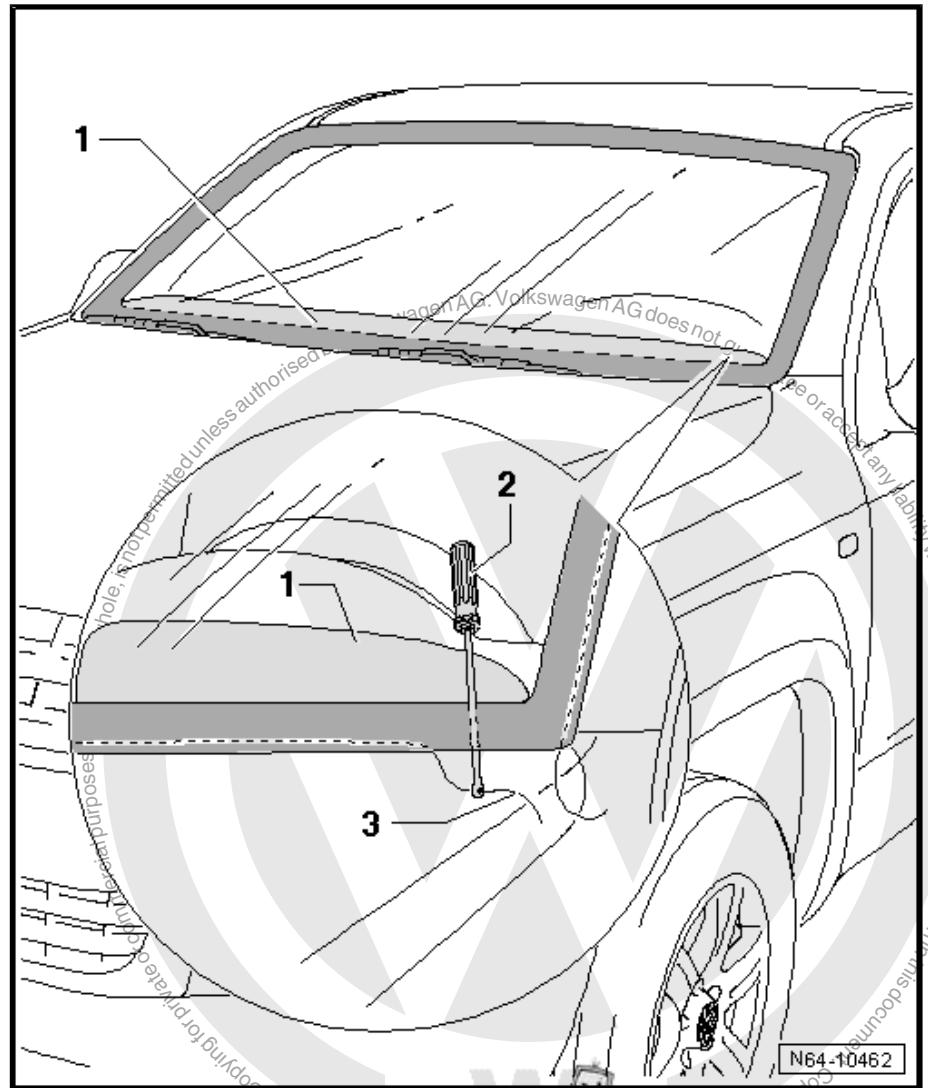
- ◆ Electric cutter - V.A.G 1561 A-
- ◆ Cutting blade - V.A.G 1561/2-
- ◆ Cutting blade - V.A.G 1561/8-
- ◆ Setting gauge -3371-
- ◆ Cutting blade - V.A.G 1561/19-
- ◆ Double cartridge gun - VAS 5237-



## Removing

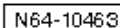
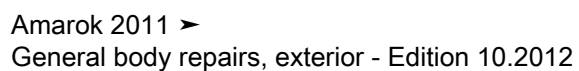
- Removing plenum chamber cover ⇒ [page 12](#) .
- Remove interior mirror ⇒ General body repairs, interior; Rep. gr. 68 ; Interior mirror
- Remove A-pillar trim ⇒ General body repairs, interior; Rep. gr. 70 ; Trim, insulation; Pillar trim .
- Removing front left and right grab handles ⇒ General body repairs, interior; Rep. gr. 68 ; Front grab handle .
- Removing left and right sun visors ⇒ General body repairs, interior; Rep. gr. 68 ; Interior equipment; Compartments, covers and trims .
- Moulded headliner can now be lowered sufficiently to allow windscreen to be cut out without damage occurring to moulded headliner.





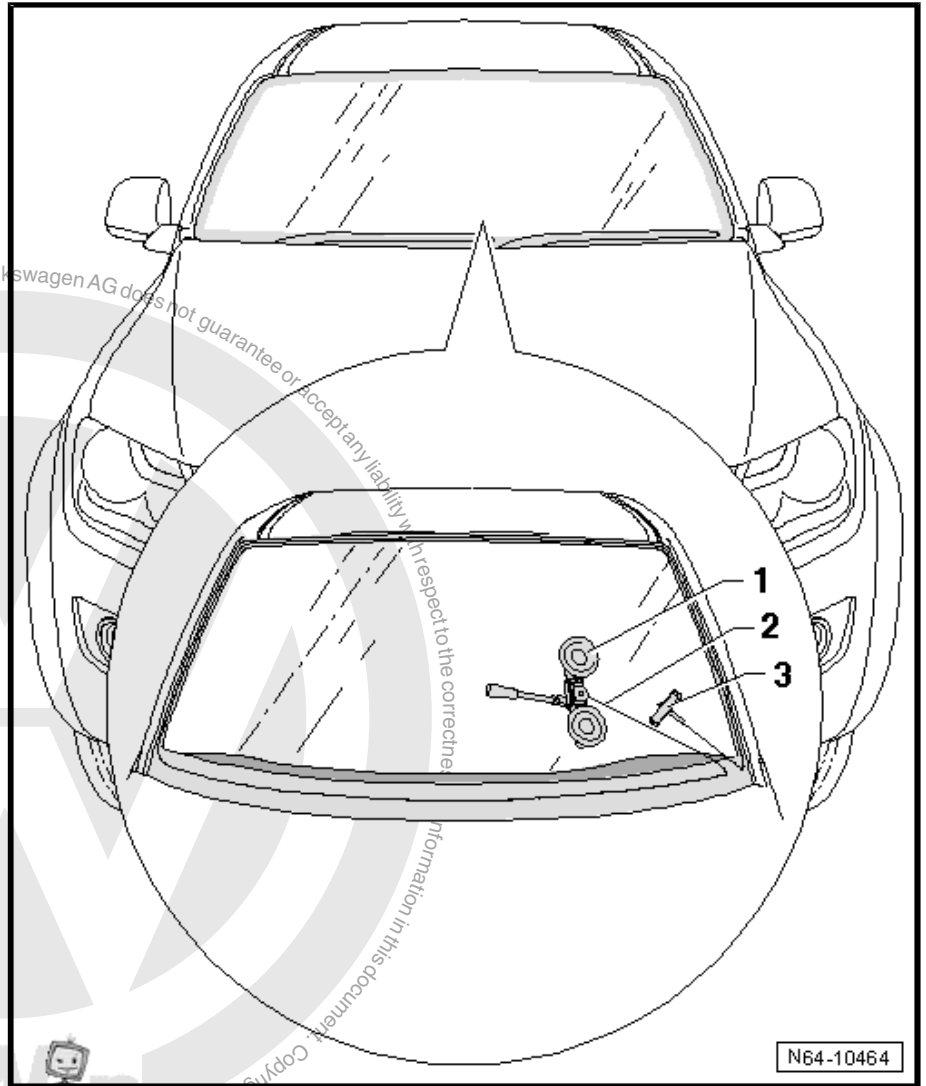
- Slide protective backing -V.A.G 1474/8- -1- between front windscreen and dash panel.
- Pull cutting cord -3- through adhesive sealing material into inside of vehicle using awl -V.A.G 1474/2- .





- Secure inside end of cutting cord against falling out using Pull toggle -V.A.G 1351/1- -3-.
- Use small tube -1- to insert cutting cord -2- around window flange.
- Ensure that cutting cord lies under windscreen in corners.





- Position reel device -V.A.G 1654 A- -1-.
- Secure other end of cord to reel device -V.A.G 1654 A- -1-.
- Turn reel device -V.A.G 1654 A- accordingly and cut windscreen free.
- Counterhold with pull handle -V.A.G 1351/1- -3-.
- Use plastic wedge to press cutting cord -2- against windscreen while cutting in order to have clearance at window flange and dash panel.

### Installing

Preparing old undamaged window for glazing ⇒ [page 256](#)

Preparing new window for glazing ⇒ [page 257](#) .

Preparing body flange for glazing ⇒ [page 257](#)

Installation instructions ⇒ [page 255](#) .

Minimum curing period ⇒ [page 254](#) .

### Removing broken windscreen

Removing a broken windscreen is performed in the same manner as removing a broken rear window ⇒ [page 271](#) .





### 3 Rear window

⇒ "3.1 Assembly overview - rear window", page 266

⇒ "3.2 Removing and installing rear window", page 267

#### 3.1 Assembly overview - rear window

##### 1 - Rear window

- ❑ Removing and installing rear window  
⇒ [page 267](#)

##### 2 - PUR adhesive sealant

- ❑ Cross section of bead:  
-width- = 6.5 mm  
-height- = 10 mm (including precoat, residual material on window glass and window flange).
- ❑ The adhesive bead is butted up against the side edge of the window.
- ❑ Minimum curing period  
⇒ [page 254](#).

##### 3 - Body flange

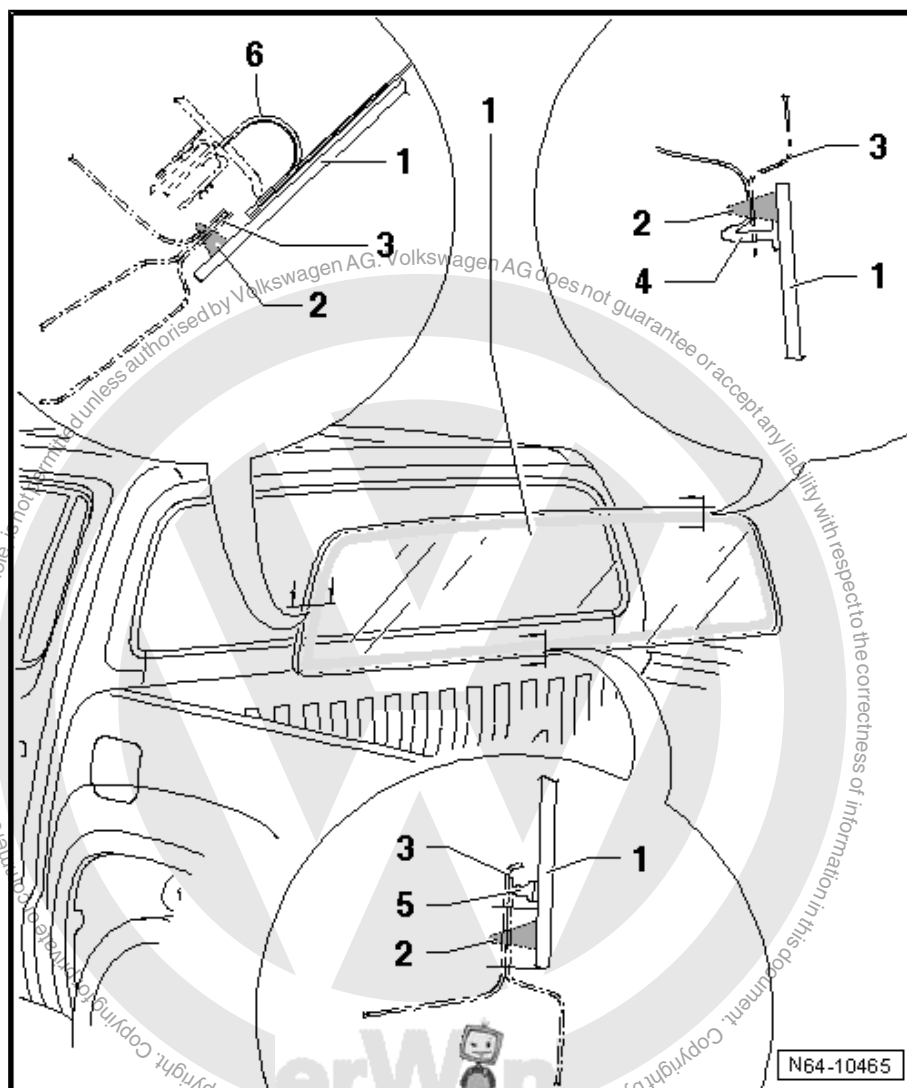
##### 4 - Clip

##### 5 - Depth stop

- ❑ Qty. 5

##### 6 - Connectors for window heater

- ❑ Left and right.







## 3.2 Removing and installing rear window

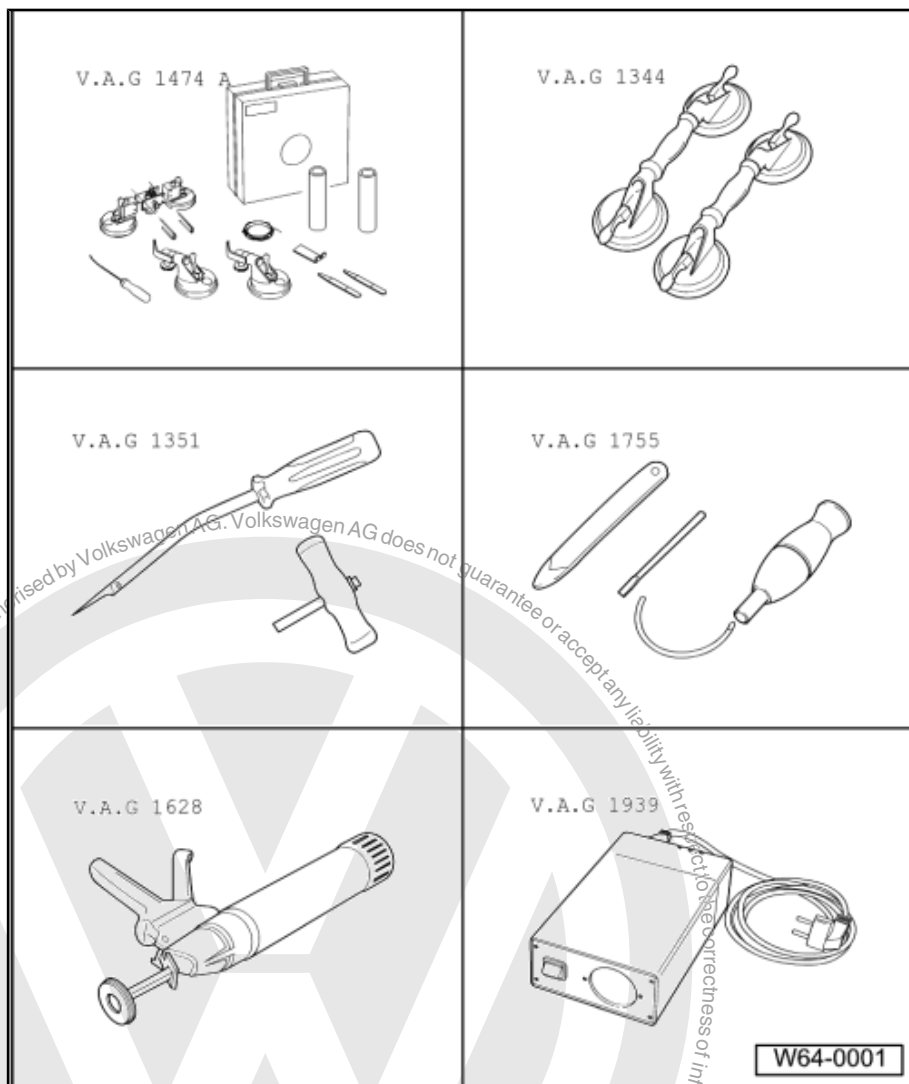


### Note

The removal of a bonded window is described using the Removal kit for flush bonded windows -V.A.G 1474 A-. The respective tools from Removal kit for flush bonded windows -VAS 6452- may also be used.

### Special tools and workshop equipment required

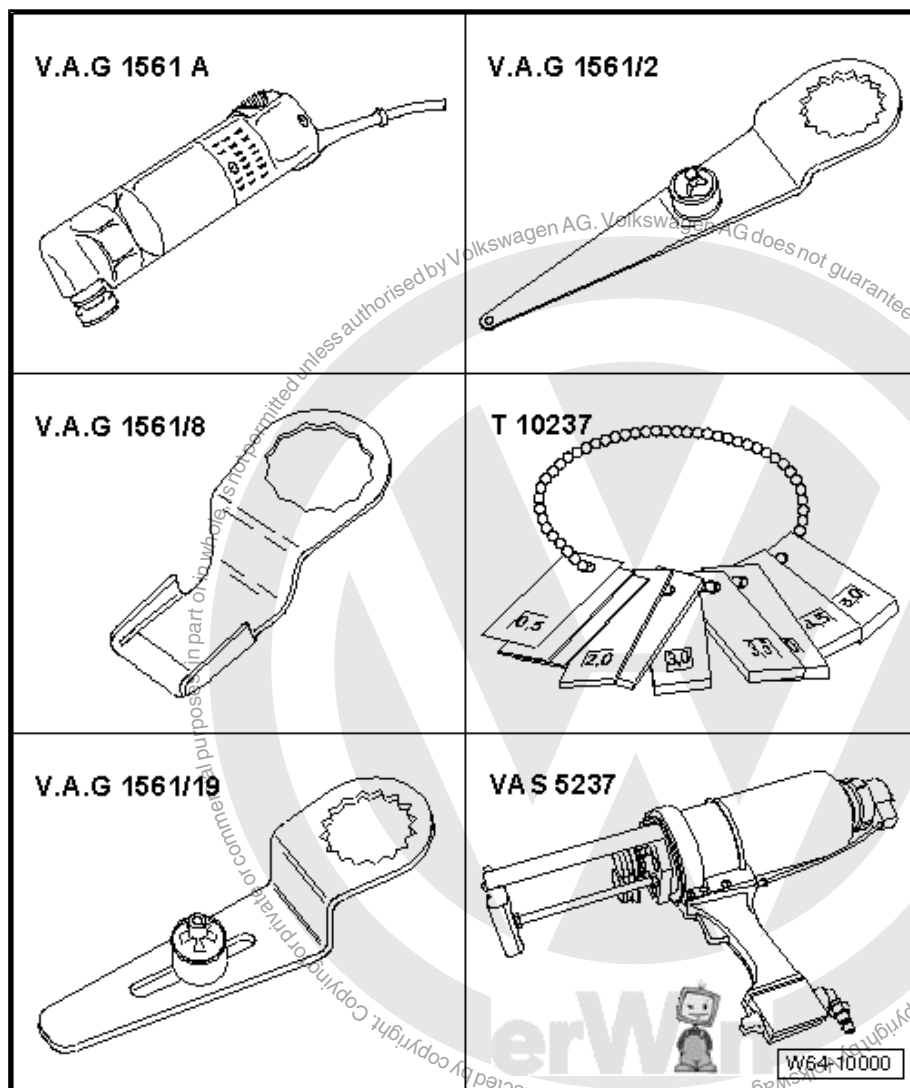
- ◆ Removal kit for flush bonded windows - V.A.G 1474 A- or Removal kit for flush bonded windows -VAS 6452-
- ◆ Suction lifter -V.A.G 1344-
- ◆ Cutting tool -V.A.G 1351-
- ◆ Windscreen removal kit - V.A.G 1755-
- ◆ Cartridge gun -V.A.G 1628-
- ◆ Cartridge heater - V.A.G 1939-







- ◆ Electric cutter -  
V.A.G 1561 A-
- ◆ Cutting blade -  
V.A.G 1561/2-
- ◆ Cutting blade -  
V.A.G 1561/8-
- ◆ Setting gauge -3371-
- ◆ Cutting blade -  
V.A.G 1561/19-
- ◆ Double cartridge gun -  
VAS 5237-



## Removing

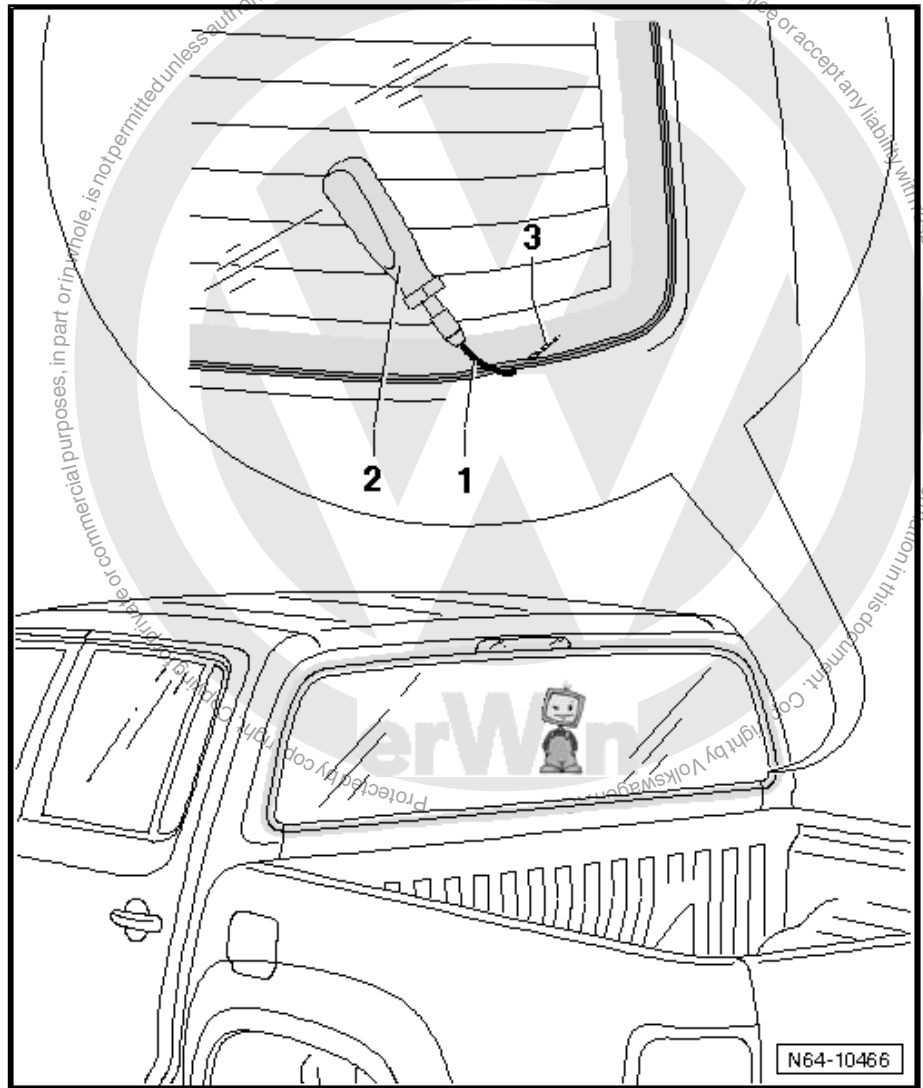


### Note

*If the rear window is reused, make sure that the electrical connections for the rear window heating are not damaged.*

- Remove upper C-pillar trim ⇒ General body repairs, interior;  
Rep. gr. 70 ; Upper C-pillar trim .
- Pull off connectors for heated rear window (if installed) and  
push connector tabs against rear window.
- Release upper rear wall trim ⇒ General body repairs, interior ;  
Rep. gr. 70 ; Upper rear wall trim





- Take trimming needle -1- from windscreen removal kit -V.A.G 1755- and use handle -2- to force it through adhesive bead.

Look for a place where the gap is the largest.

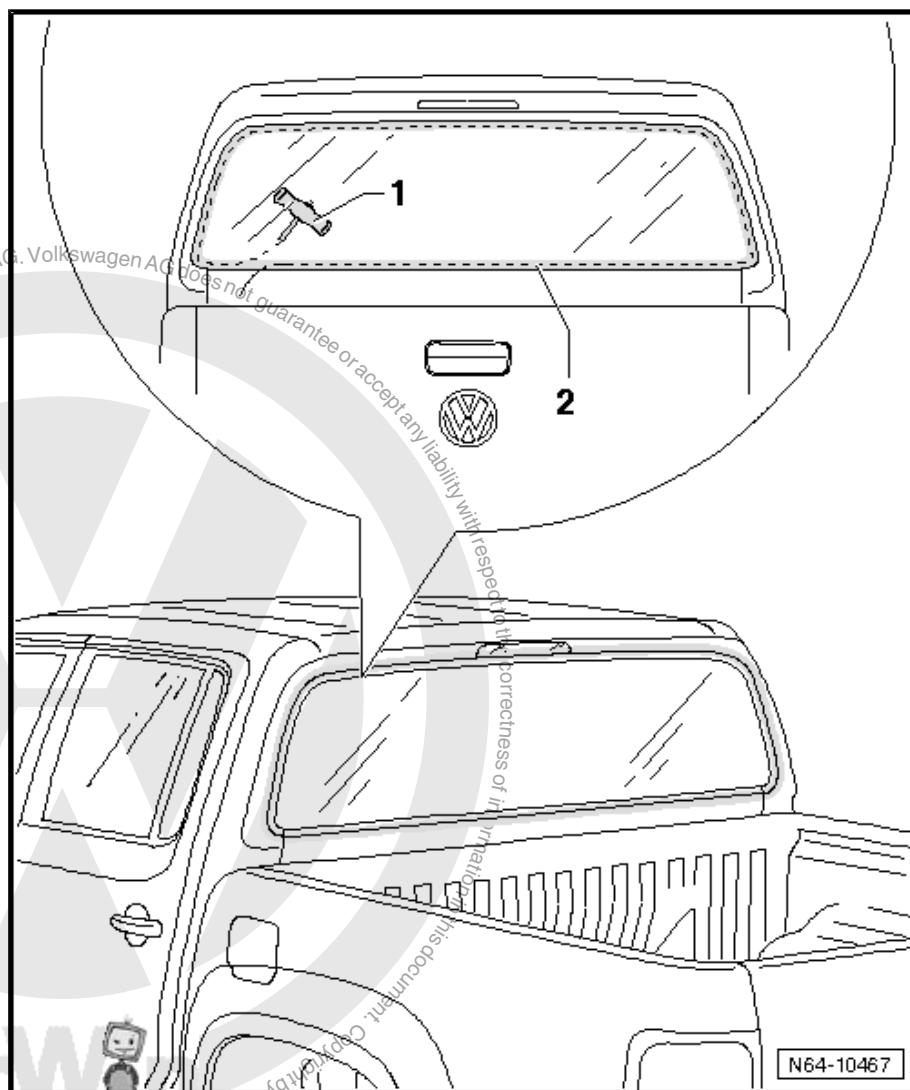


#### Note

*Protect the paintwork at this place from damage.*

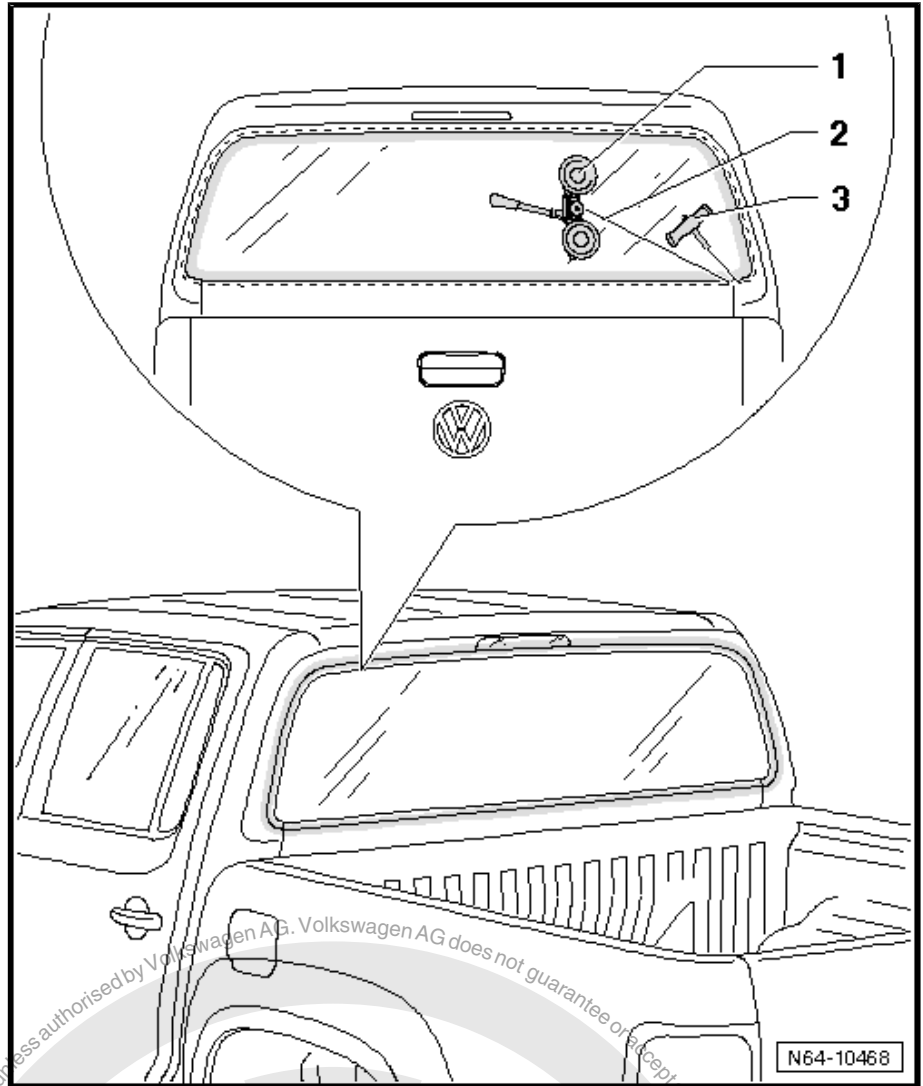
- Unscrew handle -2- and thread cutting cord through eye of needle.
- Pull trimming needle -1- and cutting cord -3- through to inside.
- Use pliers and gloves.





- Secure end of cutting cord -2- against falling out using pull handle -V.A.G 1351/1- -1-.
- Lay ends of cutting cord -2- around rear window and guide second end of cord inwards as well.





- Position reel device -V.A.G 1654 A- -1-.
- Secure other end of cord to reel device -V.A.G 1654 A- -1-.
- Operate reel device -V.A.G 1654 A- accordingly and cut rear window free.
- Counterhold with pull handle -V.A.G 1351/1- -3-.
- Use plastic wedge to press cutting cord -2- against rear window while cutting in order to have clearance at window flange and dash panel.

#### Installing

Preparing old undamaged window for glazing ⇒ [page 256](#)

Preparing new window for glazing ⇒ [page 257](#) .

Preparing body flange for glazing ⇒ [page 257](#)

Installation instructions ⇒ [page 255](#) .

Minimum curing period ⇒ [page 254](#) .

#### Removing broken rear window

- Protect body and interior from glass splinters.
- Remove pieces of glass up to adhesive sealing material.



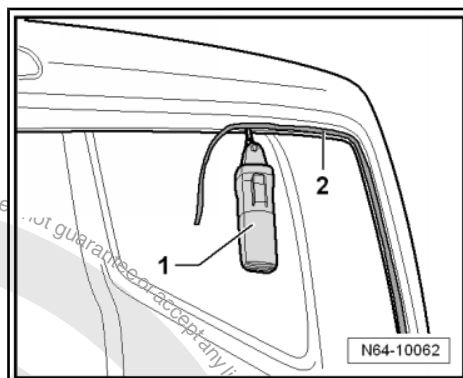


- Pull off connections for rear window heating and aerial.
- Cover flange -2- all round with textile-reinforced adhesive tape.
- Cut through adhesive seal (with pieces of glass) in window aperture using electric cutter -V.A.G 1561 A- -1- and U-shaped blade -V.A.G 1561- .



**WARNING**

***Always wear safety goggles and leather gloves.***







## 4 Door windows

⇒ ["4.1 Assembly overview - front door window", page 273](#)

⇒ ["4.2 Assembly overview - rear door window", page 274](#)

⇒ ["4.3 Removing and installing front door window", page 275](#)

⇒ ["4.4 Removing and installing guide rail", page 276](#)

⇒ ["4.5 Removing and installing rear door window", page 277](#)

### 4.1 Assembly overview - front door window



#### Note

*The right side is shown. The left side is similar.*

#### 1 - Door window

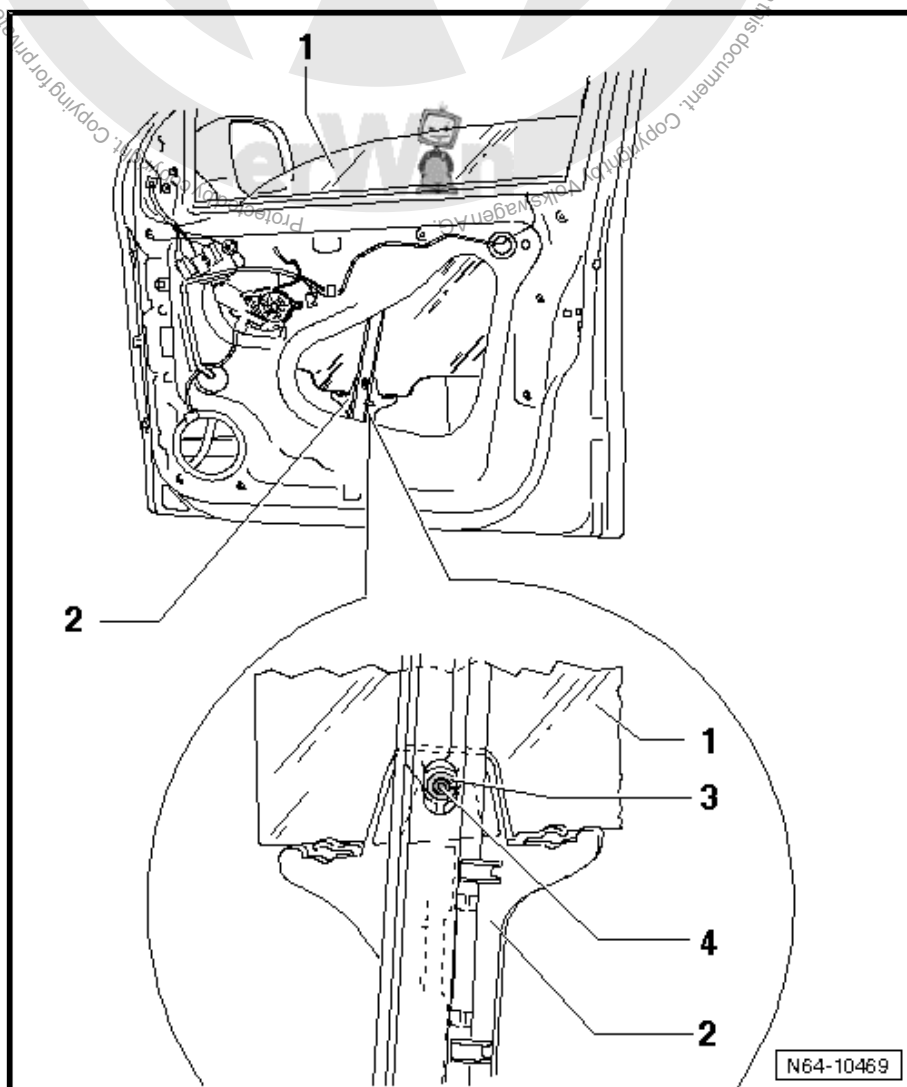
- Removing and installing  
⇒ [page 275](#)

#### 2 - Window regulator

- Removing and installing  
⇒ [page 103](#)

#### 3 - Spreader pin

#### 4 - Spreader plug







## 4.2 Assembly overview - rear door window

### 1 - Rear door window

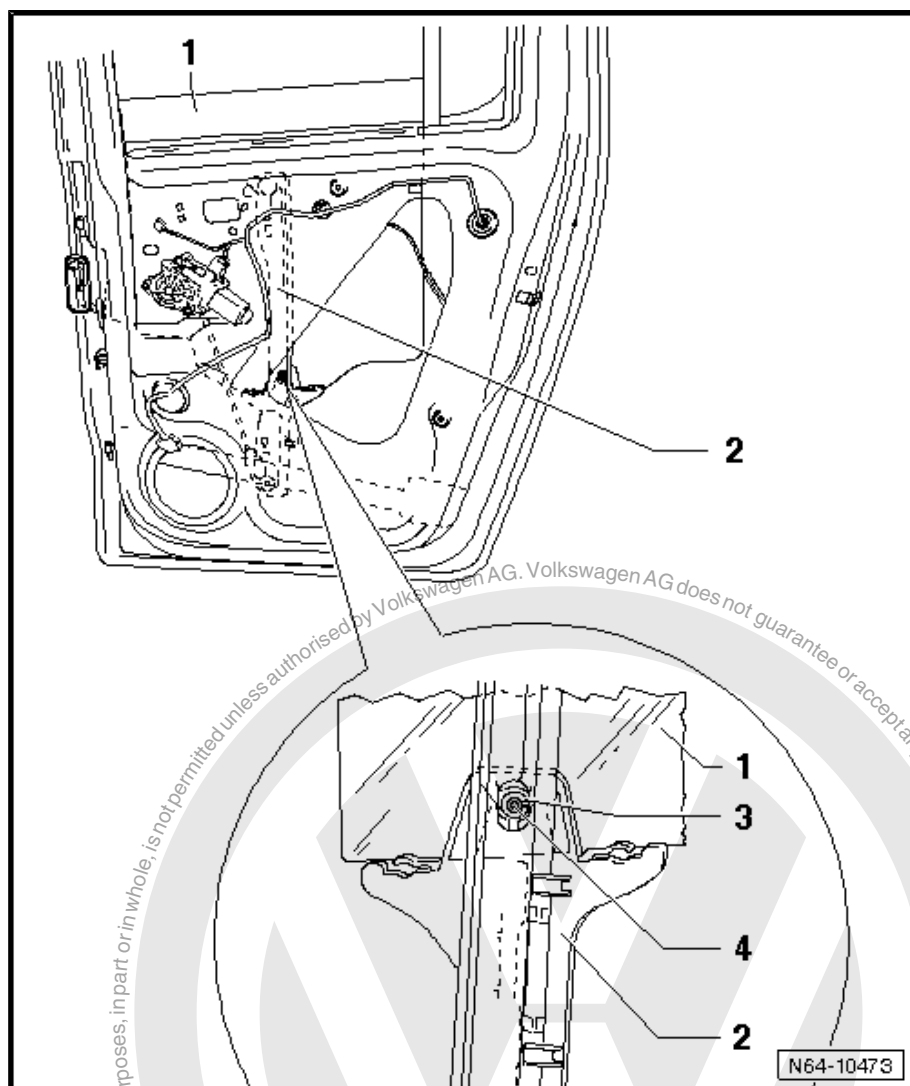
- ❑ Removing and installing  
⇒ [page 277](#)

### 2 - Window regulator

- ❑ Removing and installing  
⇒ [page 144](#)

### 3 - Spreader pin

### 4 - Spreader plug





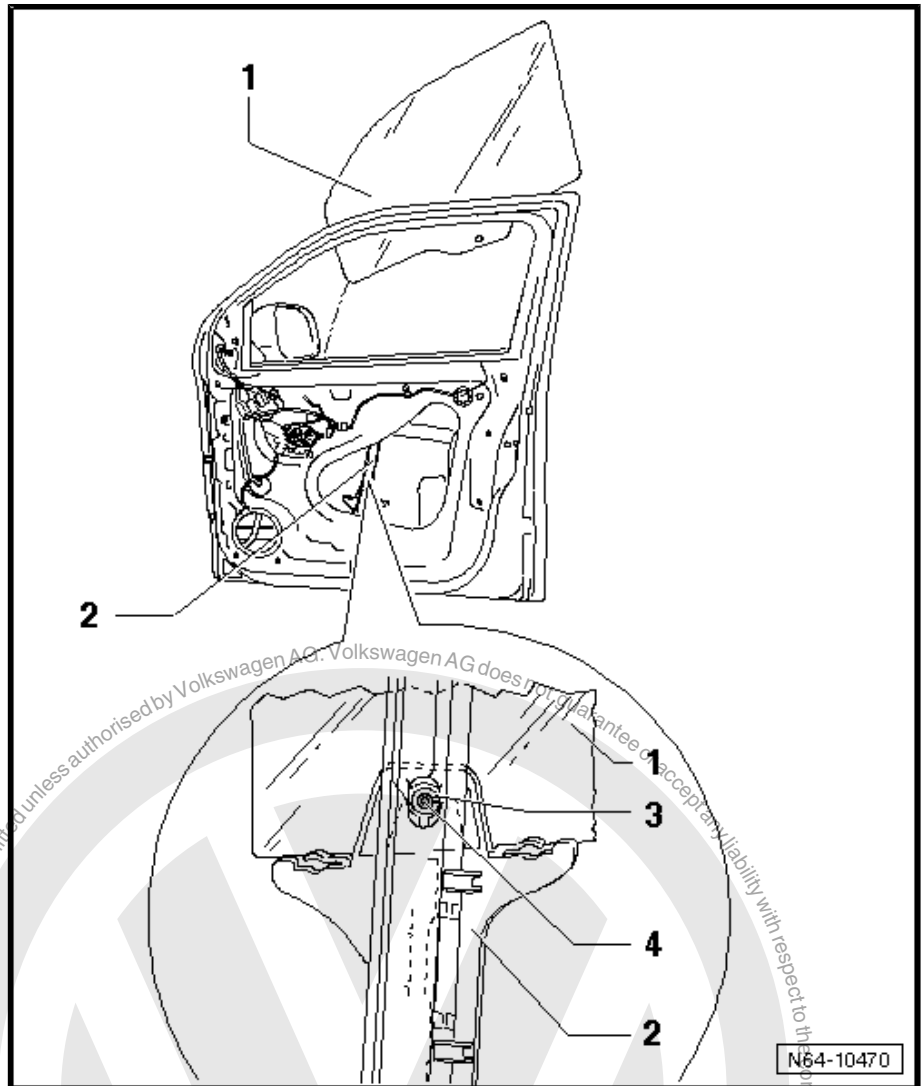


## 4.3 Removing and installing front door window



### Note

Removal is described only for the right door window. Removal of left door window is similar.



### Removing

- Removing front door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trims .
- Remove inside door film of front door ⇒ [page 348](#) .
- Lower door window until spreader pin -4- and spreader plug -3- in cut-out of window regulator are accessible.



### Note

If the work sequence cannot be carried out because there is a fault with the electric window motor, remove motor to slide window down.





- Screw a 5 mm bolt (approx. 70 mm long) into the spreader pin -4- and pull out from spreader plug -3-.
- Screw an 8 mm bolt (approx. 80 mm long) into spreader plug -3-.



#### Note

- ◆ *When screwing bolt into spreader plug, do not apply excessive pressure on plug.*
- ◆ *It otherwise falls inwards into door.*
- Pull spreader plug -3- out of window regulator guide -1- and therefore out of door window.
- Lift rear of door window -1- and swing forwards out of window channels.

#### Installing



#### Note

- ◆ *Installation is described only for the right door window. Installation of left door window is similar.*
- ◆ *When installing a door window, always renew spreader plug and spreader pin.*
- ◆ *Before inserting spreader plug -3- and spreader pin -4-, check window glass -1- for damage.*
- Centre spreader plug -3- in the middle and insert spreader plug with the window -1- removed.
- Press spreader pin -4- flush into spreader plug -3-.
- Guide door window -1- into door -2- and insert door window -1- into slot in window regulator guide.
- Make door window -1- engage in window regulator -2- by pressing slightly from above.
- Then perform remaining installation in reverse order of removal.
- Carry out functional test before fitting door trim.

## 4.4 Removing and installing guide rail

### Removing

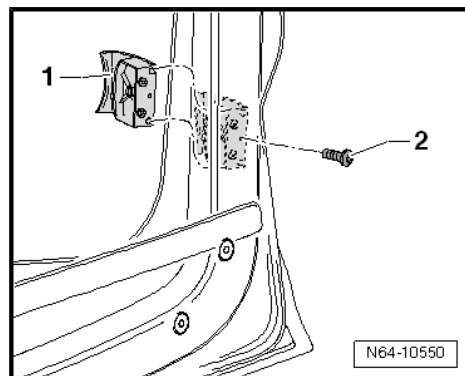
- Removing front door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trims .
- Remove inside door film of front door ⇒ [page 348](#) .
- Remove bolts -2- and remove guide rail -1- through opening in door.

### Installing

Installation is carried out in reverse order. When doing this, observe the following:

#### Specified torques

Component	Specified torque
Guide rail	1.5 Nm





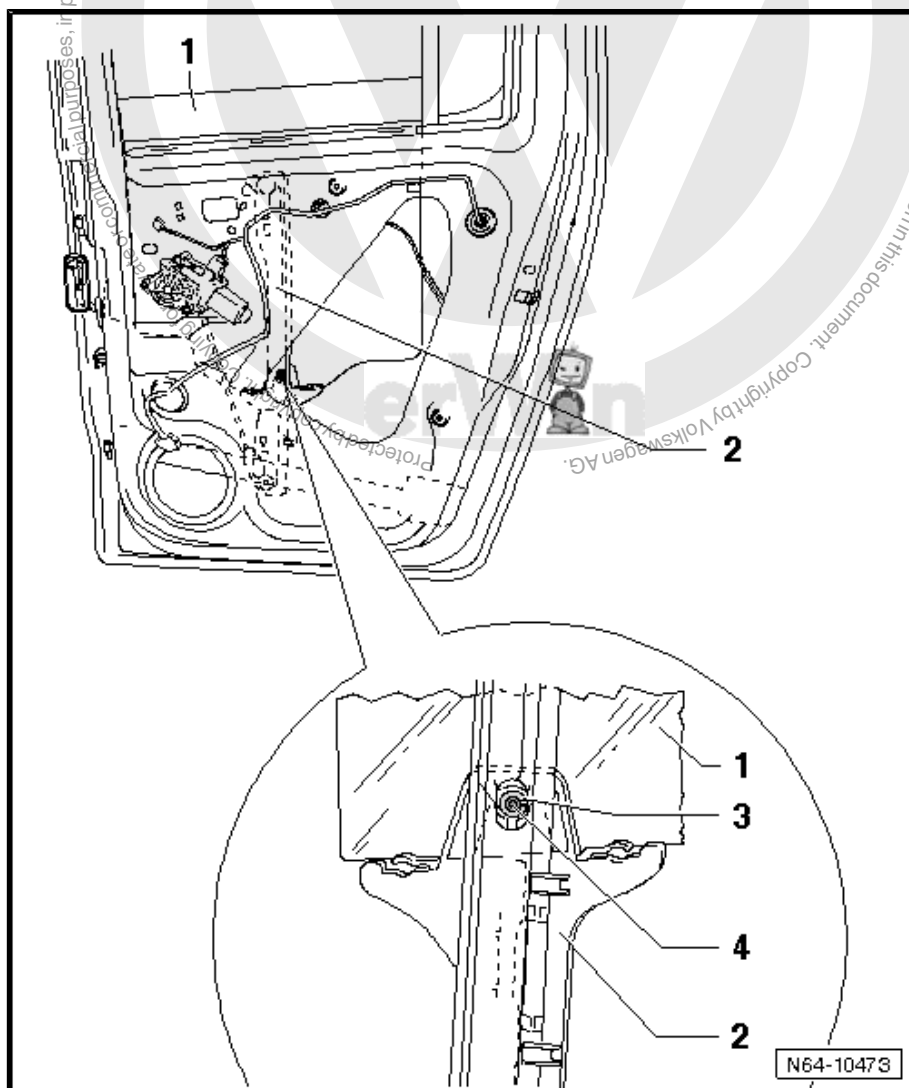


## 4.5 Removing and installing rear door window



### Note

Removal is described only for the right door window. Removal of left door window is similar.



### Removing

- Removing rear door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trims .
- Remove inner film of rear door ⇒ [page 349](#) .
- Lower door window until spreader pin -4- and spreader plug -3- in cut-out of window regulator are accessible.



### Note

If the work sequence cannot be carried out because there is a fault with the electric window motor, remove motor to slide window down.





- Screw a 5 mm bolt (approx. 70 mm long) into the spreader pin -4- and pull out from spreader plug -3-.
- Screw an 8 mm bolt (approx. 80 mm long) into spreader plug -3-.



#### Note

- ◆ *When screwing bolt into spreader plug, do not apply excessive pressure on plug.*
- ◆ *It otherwise falls inwards into door.*
- Pull spreader plug -3- out of window regulator guide -1- and therefore out of door window.
- Put door window -1- down.
- Remove fixed door-window ⇒ [page 281](#) .
- Guide door window -1- upwards out of door.

#### Installing

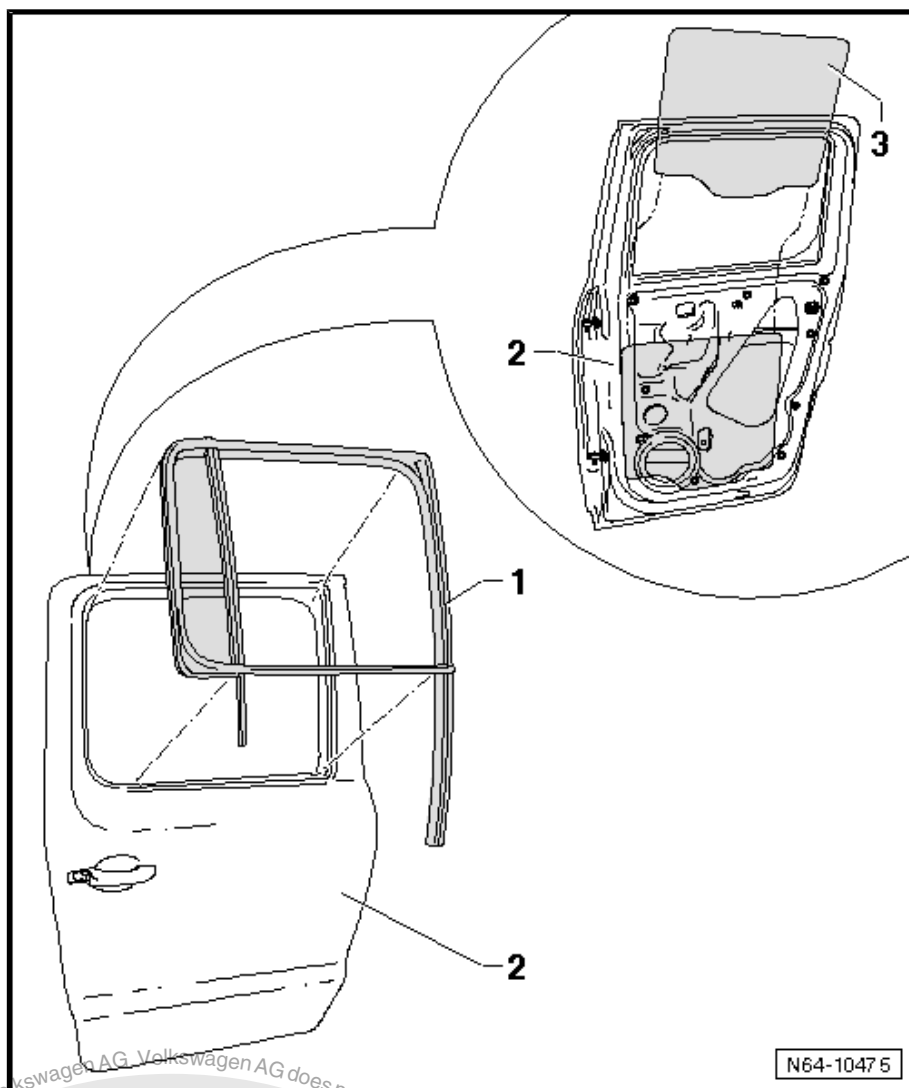


#### Note

- ◆ *Installation is described only for the right door window. Installation of left door window is similar.*
- ◆ *When installing a door window, always renew spreader plug and spreader pin.*
- ◆ *Before inserting spreader plug -3- and spreader pin -4-, check window glass -1- for damage.*

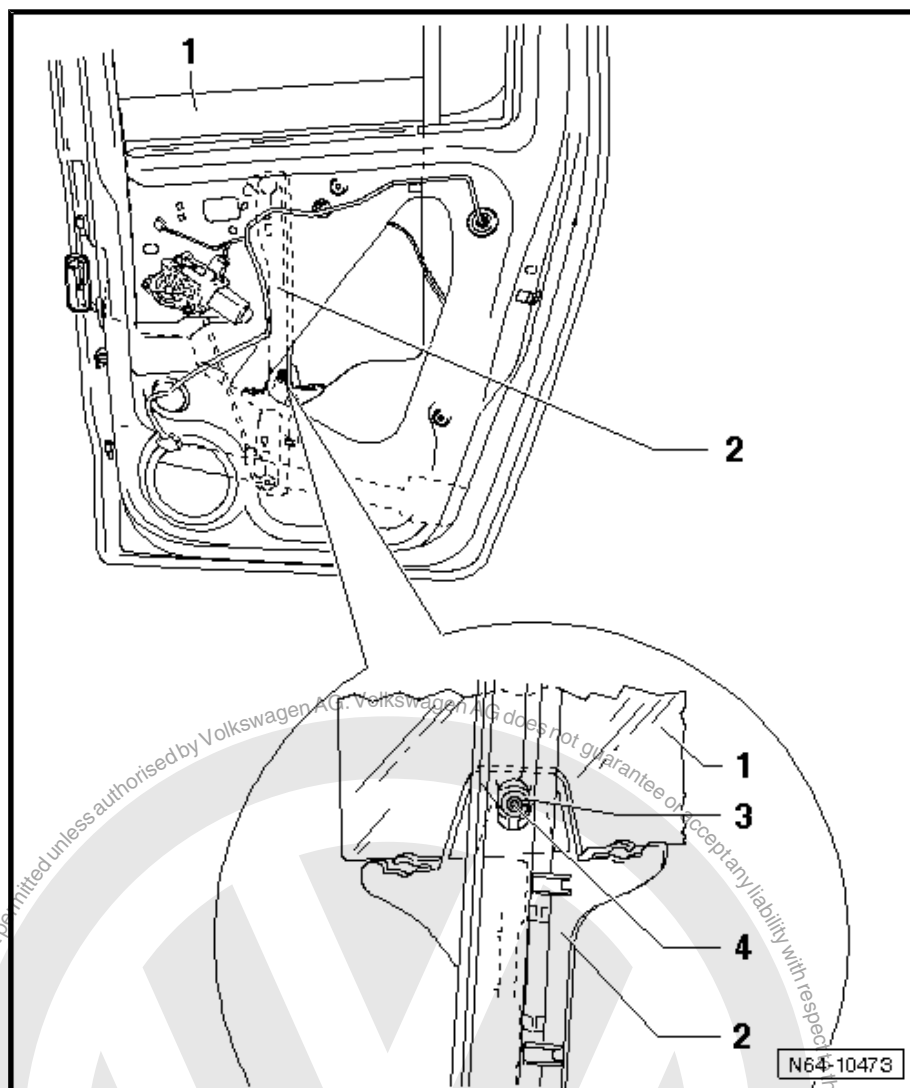






- Guide door window -3- downwards in door -2- and put it down.
- Install fixed door-window -1- → [page 281](#) .





- Centre spreader plug -3- in the middle and insert spreader plug with the window -1- removed.
- Press spreader pin -4- flush into spreader plug -3-.
- Guide door window -1- into door -2- and insert door window -1- into slot in window regulator guide.
- Make door window -1- engage in window regulator -2- by pressing slightly from above.
- Then perform remaining installation in reverse order of removal.
- Carry out functional test before fitting door trim.



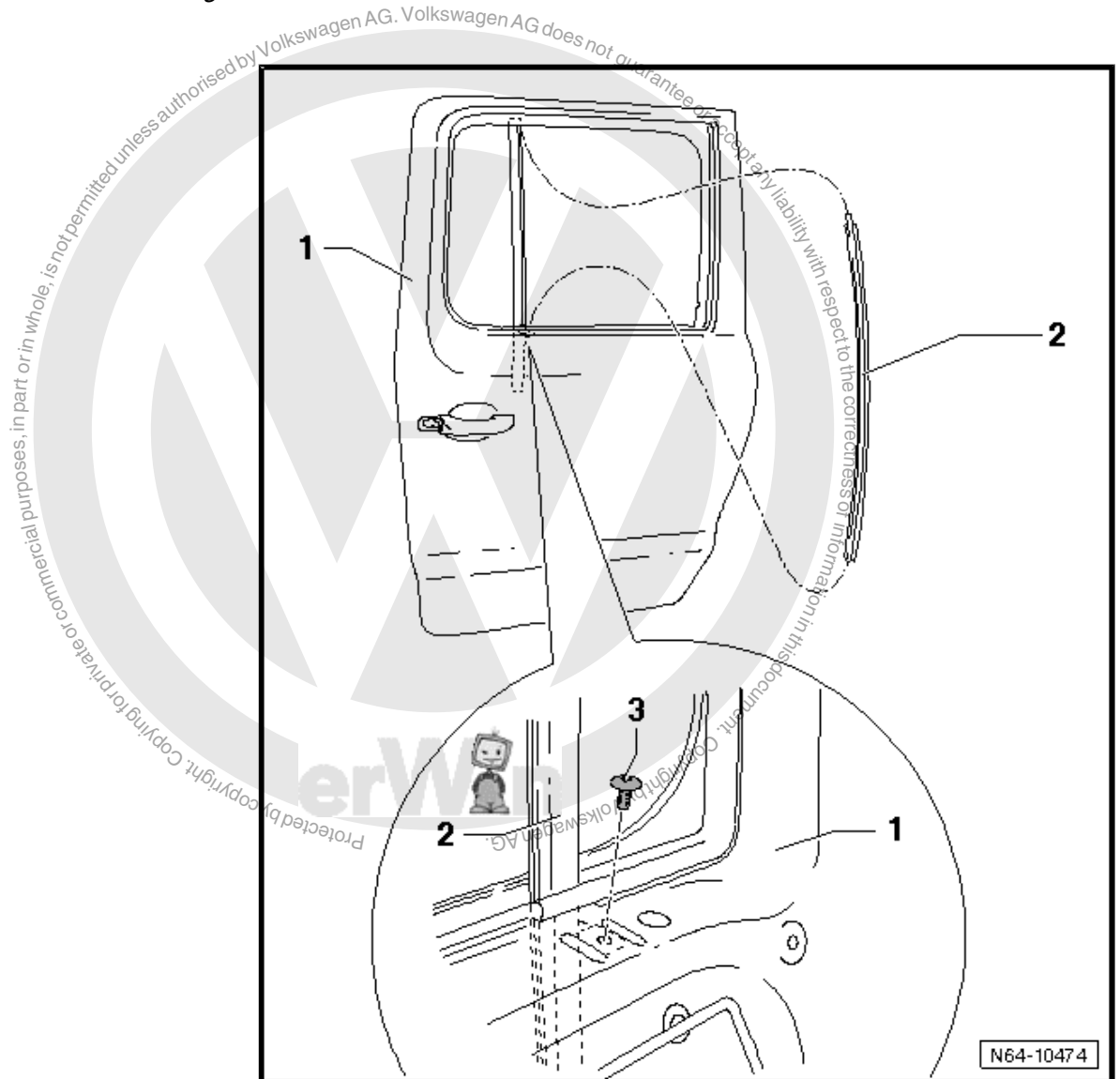


## 4.6 Removing and installing fixed door-window



### Note

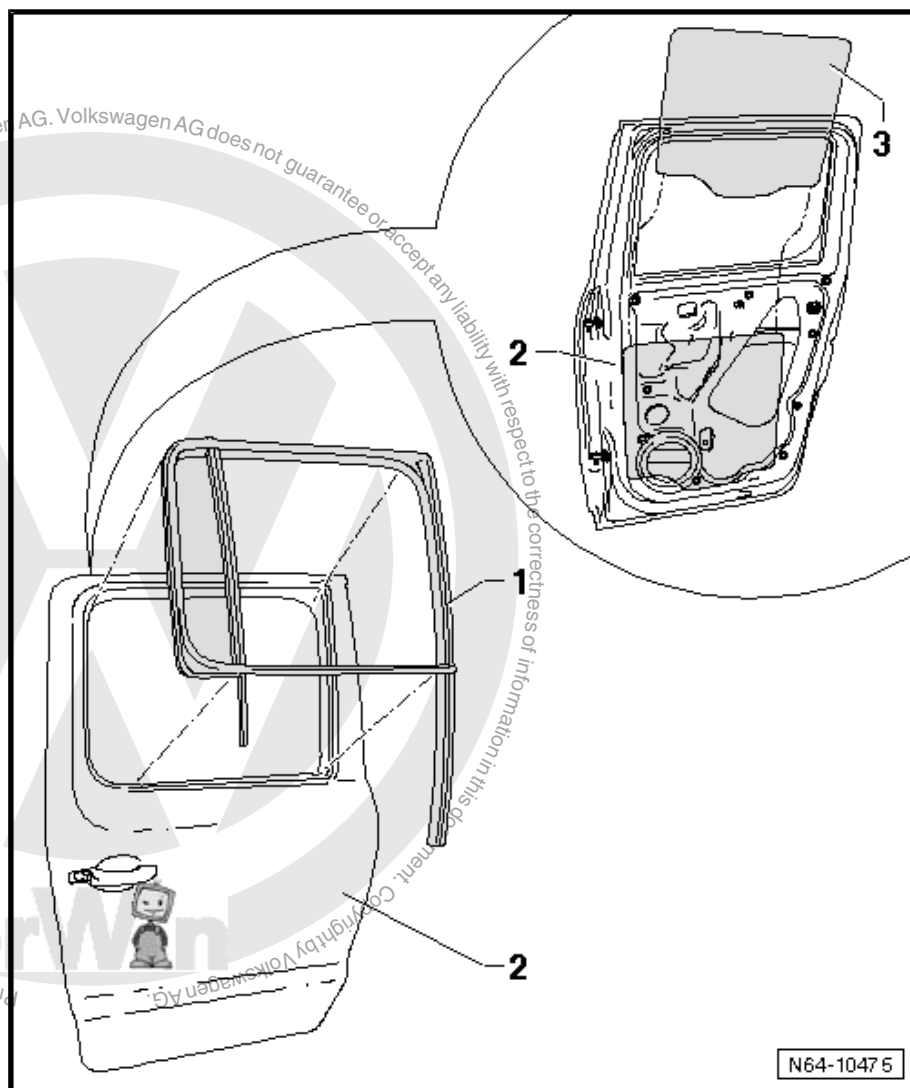
Removal and installation are described only for the right fixed door-window. Removal and installation of the left fixed door-window is analogous.



### Removing

- Removing rear door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trims .
- Remove inner film of rear door ⇒ [page 349](#) .
- Pull off inside door film.
- Remove window slot inner seal.
- Remove bolts -3-.
- Rotate window bar -2- 90°.
- Guide window bar -2- upwards out of window guide.

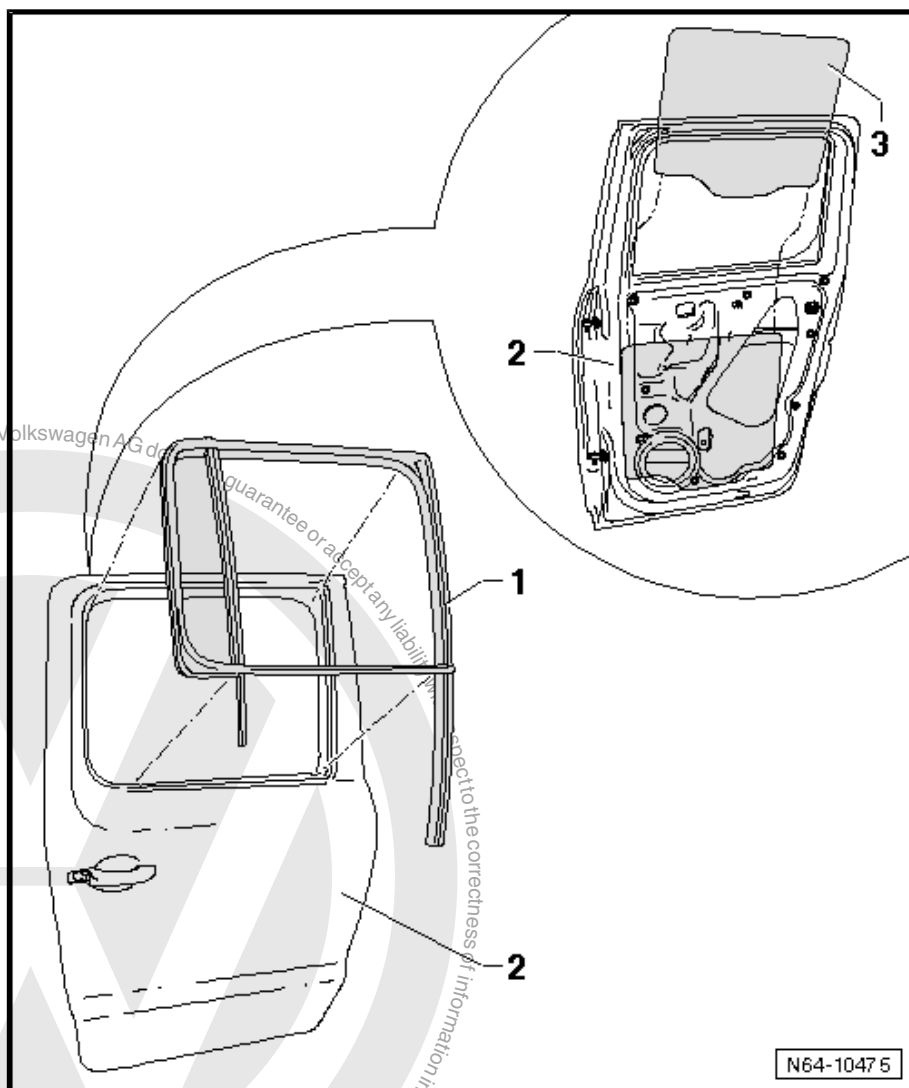




- Roll window guide seal off sheet metal flange.
- Guide fixed door-window -1- upwards out of door -2-.
- Guide door window -3- upwards out of door -2-.

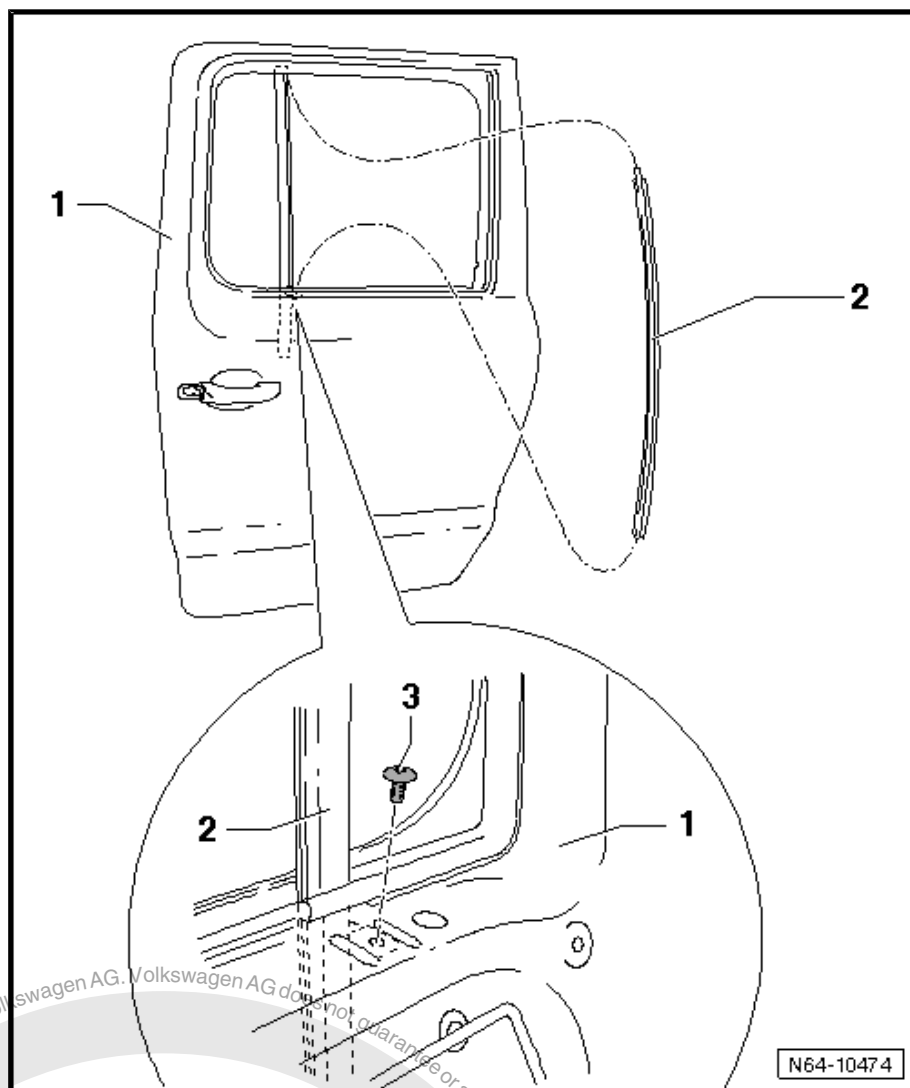
### Installing





- Guide door window -3- downwards into door -2-.
- Guide fixed door-window -1- into door -2-.
- Roll window guide seal onto sheet metal flange.





- Rotate window bar -2- 90°.
- Guide window bar -2- at an angle upwards into window guide.
- Tighten bolts -3-. Specified torque: 9 Nm
- Install window slot inner seal.
- Then perform remaining installation in reverse order of removal.





## 66 – Exterior equipment

### 1 Radiator grille and front trim

⇒ ["1.1 Assembly overview - radiator grille", page 285](#)

⇒ ["1.2 Removing and installing radiator grille", page 286](#)

#### 1.1 Assembly overview - radiator grille

##### 1 - Radiator grille

- ☐ Removing and installing  
⇒ [page 286](#)

##### 2 - Emblem

- ☐ Removing and installing  
⇒ [page 311](#)

##### 3 - Trim strip

- ☐ Upper left
- ☐ Engaged in radiator grille -1-.
- ☐ Can be unclipped only with radiator grille -1- removed

##### 4 - Trim strip

- ☐ Lower left
- ☐ Engaged in radiator grille -1-.
- ☐ Can be unclipped only with radiator grille -1- removed

##### 5 - Trim strip

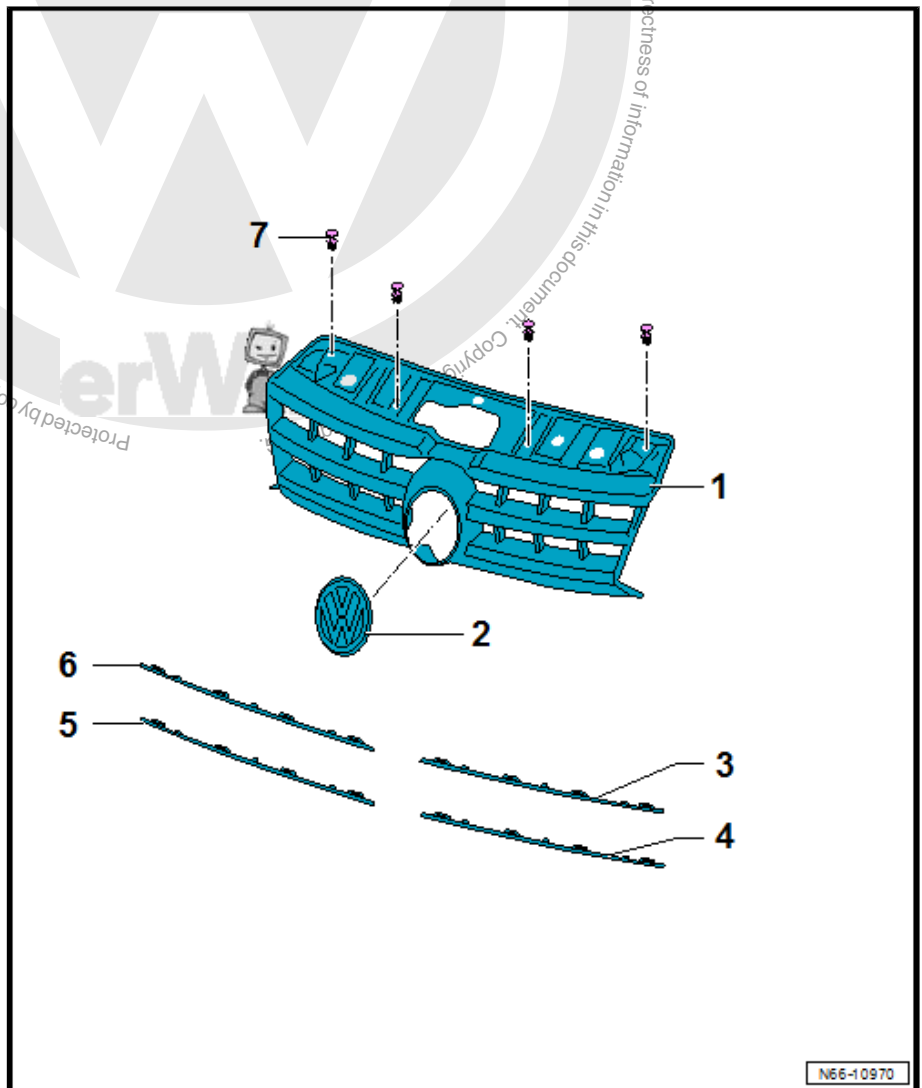
- ☐ Lower right
- ☐ Engaged in radiator grille -1-.
- ☐ Can be unclipped only with radiator grille -1- removed

##### 6 - Trim strip

- ☐ Upper right
- ☐ Engaged in radiator grille -1-.
- ☐ Can be unclipped only with radiator grille -1- removed

##### 7 - Clip

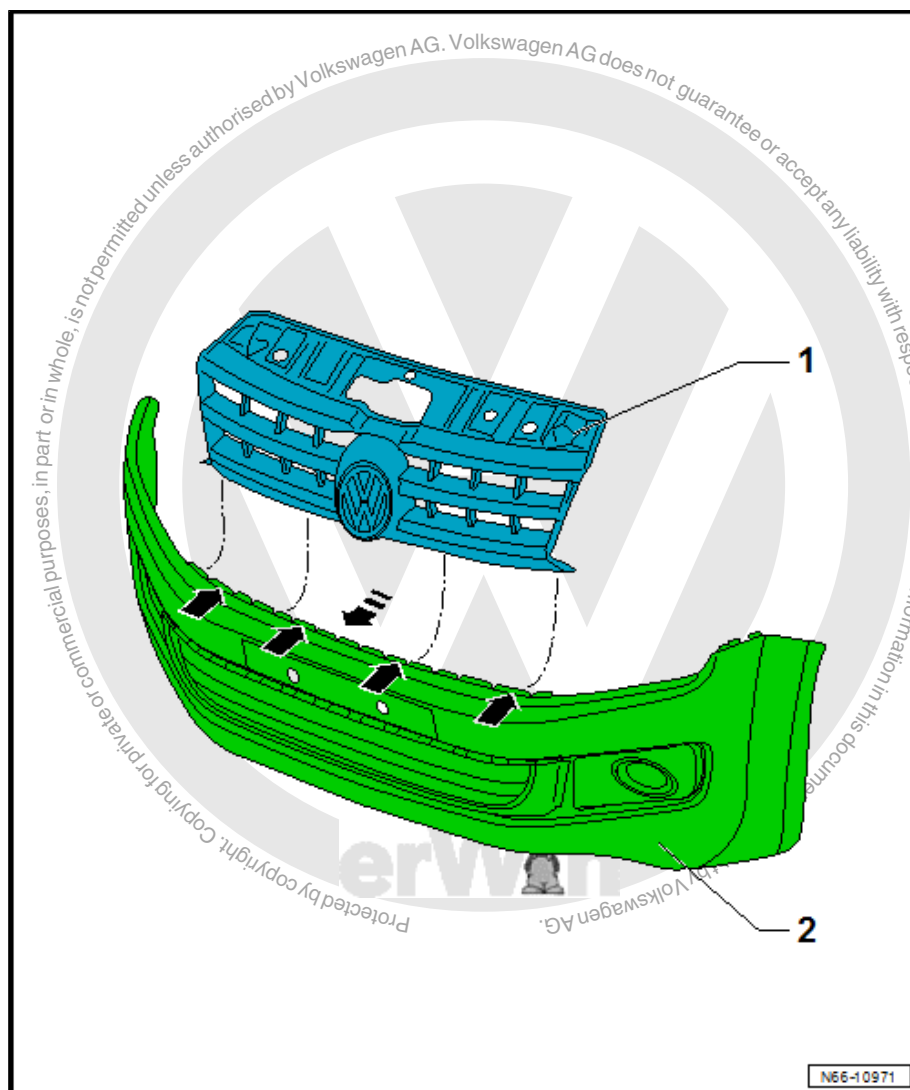
- ☐ Qty. 4







## 1.2 Removing and installing radiator grille

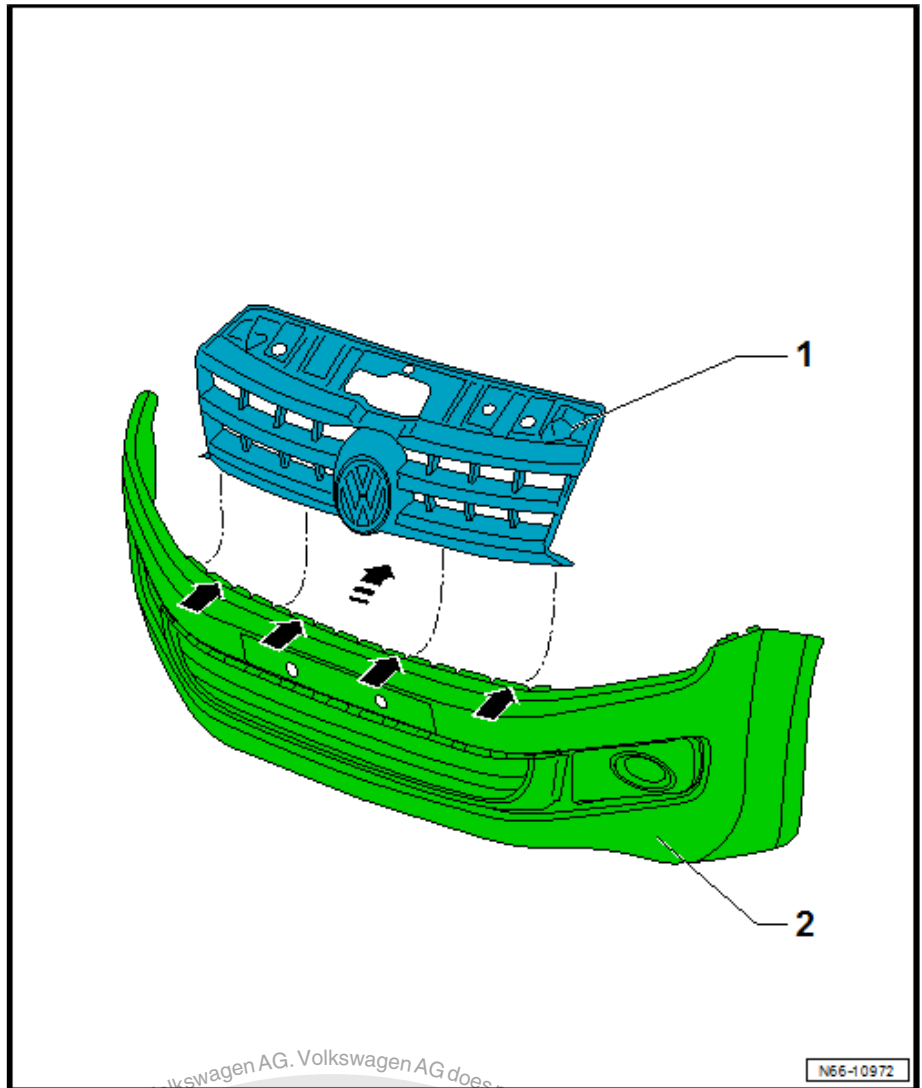


### Removing

- Remove front bumper cover ➔ [page 236](#) .
- Pull radiator grille -1- parallel in -direction of arrow- out of catches -arrows- in front bumper cover -2-.

### Installing





- Guide radiator grille -1- into front bumper cover -2- in direction of -arrow-.
- With slight pressure, clip radiator grille -1- into front bumper cover -2- -arrows-.
- Fit front bumper cover => [page 236](#) .





## 2 Mouldings, trims, extensions

⇒ "2.1 Assembly overview - heat shield", page 288

### 2.1 Assembly overview - heat shield

#### 1 - Engine compartment heat shield

- ☐ Removing:
- ☐ Removing parts of exhaust system ⇒ Power unit; Rep. gr. 26 ; Parts of exhaust system

#### 2 - Retainer

- ☐ Qty. 3

#### 3 - Tunnel heat shield, front

- ☐ Removing:
- ☐ Removing parts of exhaust system ⇒ Power unit; Rep. gr. 26 ; Parts of exhaust system

#### 4 - Retainer

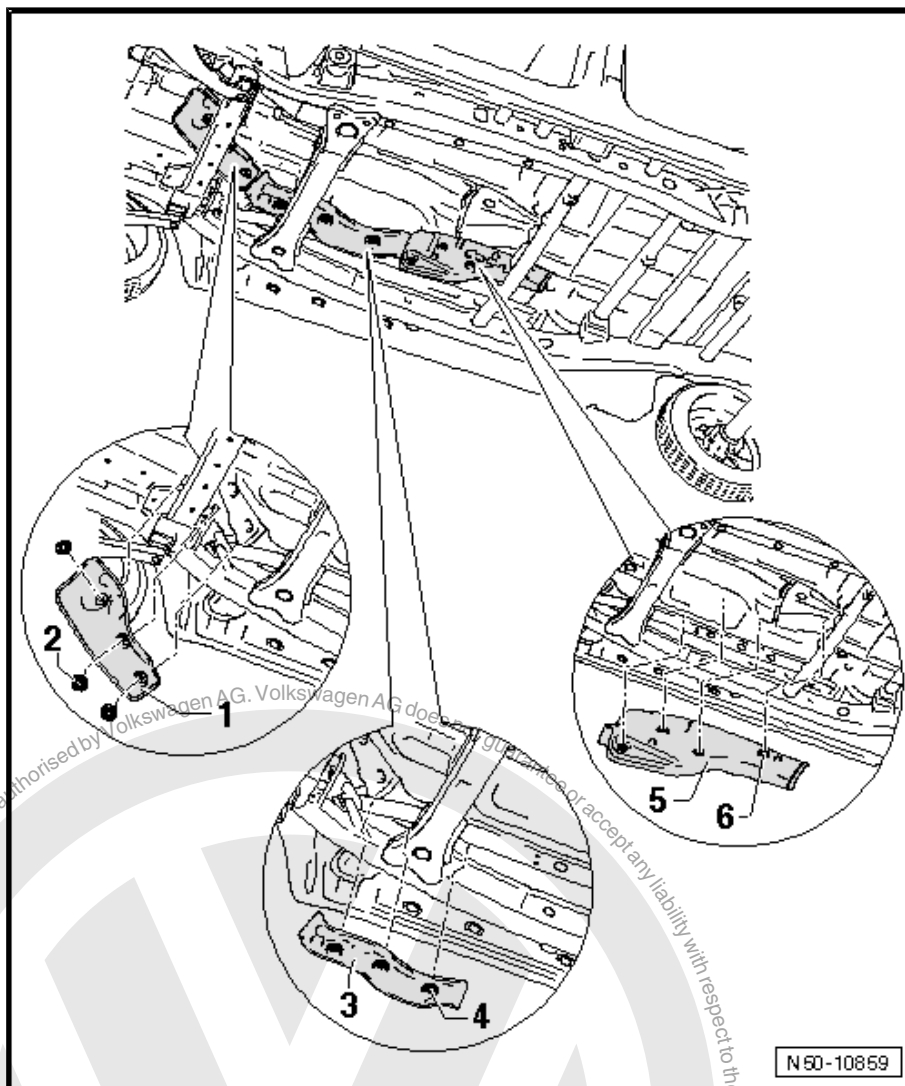
- ☐ Qty. 3

#### 5 - Floor heat shield, rear

- ☐ Removing:
- ☐ Removing parts of exhaust system ⇒ Power unit; Rep. gr. 26 ; Parts of exhaust system

#### 6 - Retainer

- ☐ Qty. 4







### 3 Engine/gearbox guard

⇒ "3.1 Assembly overview - engine/gearbox guard", page 289

⇒ "3.2 Removing and installing engine/gearbox guard",  
page 289

#### 3.1 Assembly overview - engine/gearbox guard

##### 1 - Engine/gearbox guard

- ☐ Removing and installing  
⇒ page 289

##### 2 - Bolt

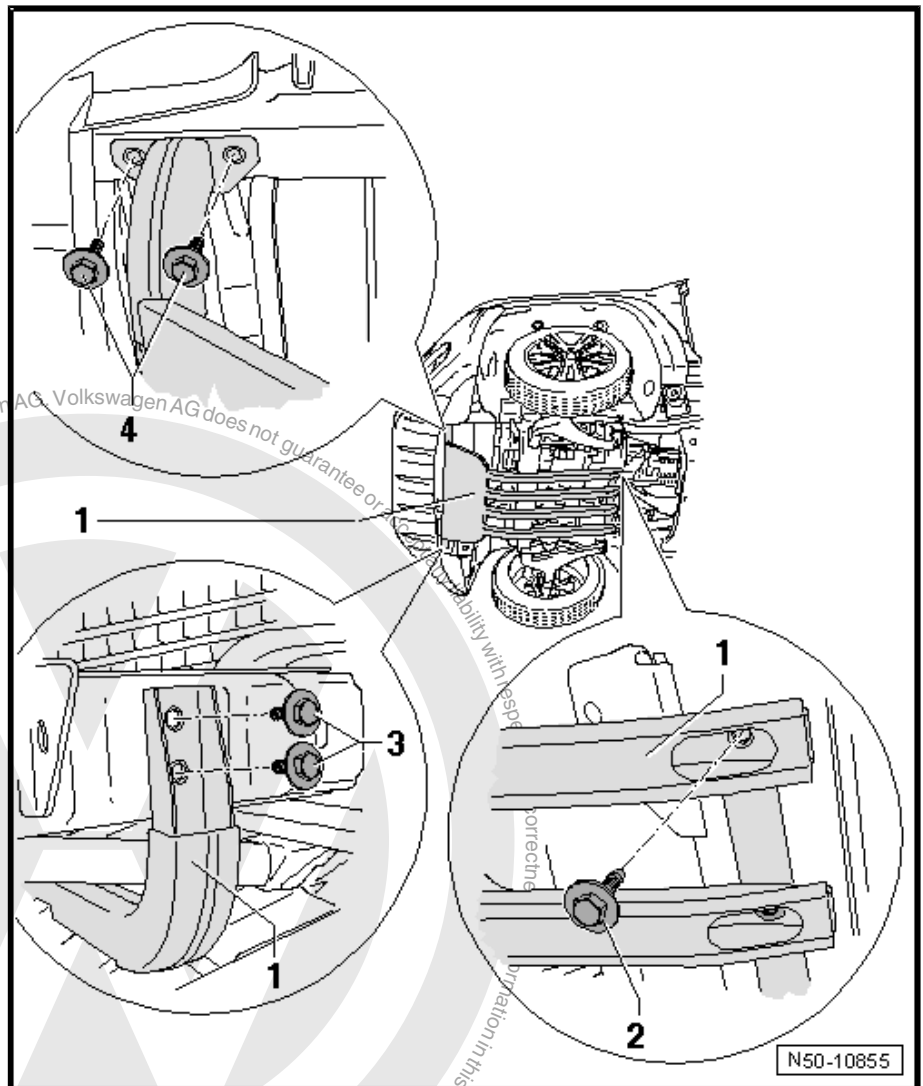
- ☐ Qty. 4
- ☐ Specified torque: 20 Nm

##### 3 - Bolt

- ☐ Qty. 2
- ☐ Specified torque: 20 Nm

##### 4 - Bolt

- ☐ Qty. 2
- ☐ Specified torque: 20 Nm



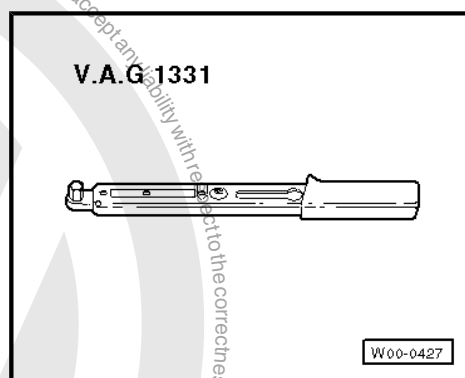
#### 3.2 Removing and installing engine/gearbox guard

Special tools and workshop equipment required

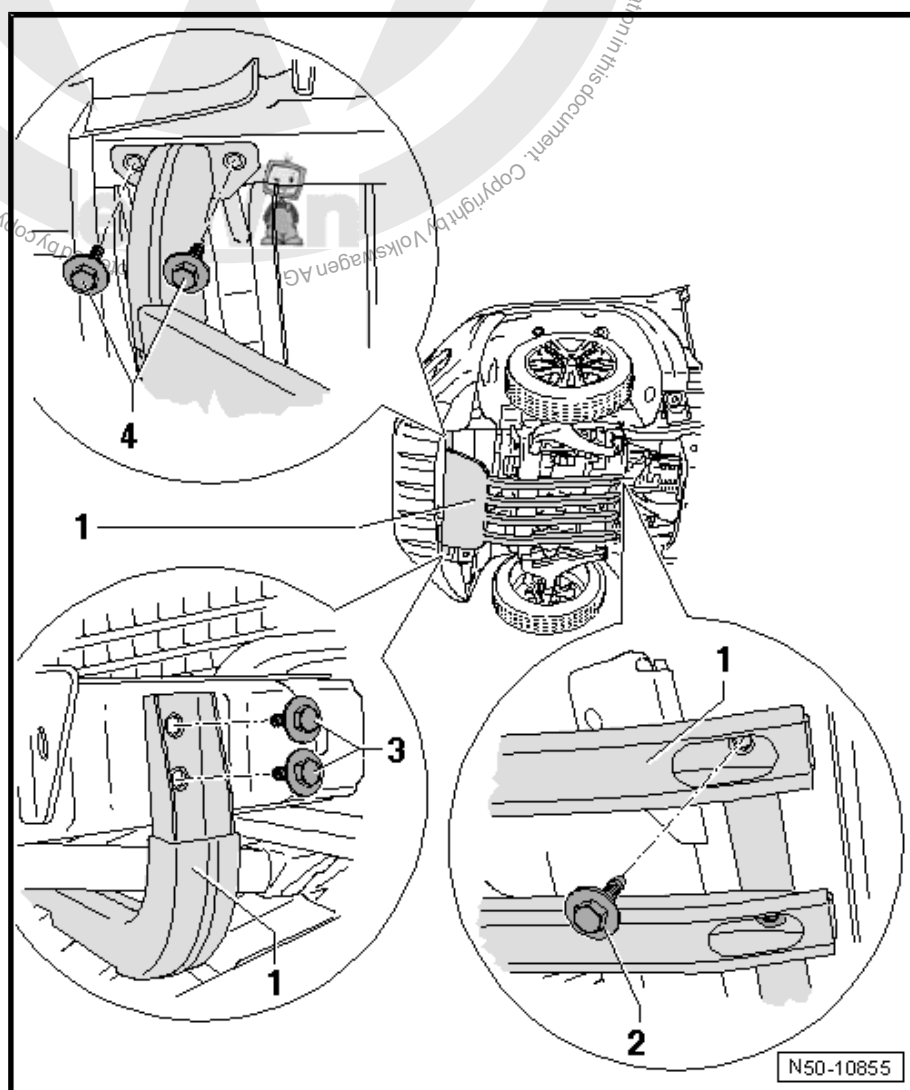




- ◆ Torque wrench -V.A.G 1331-



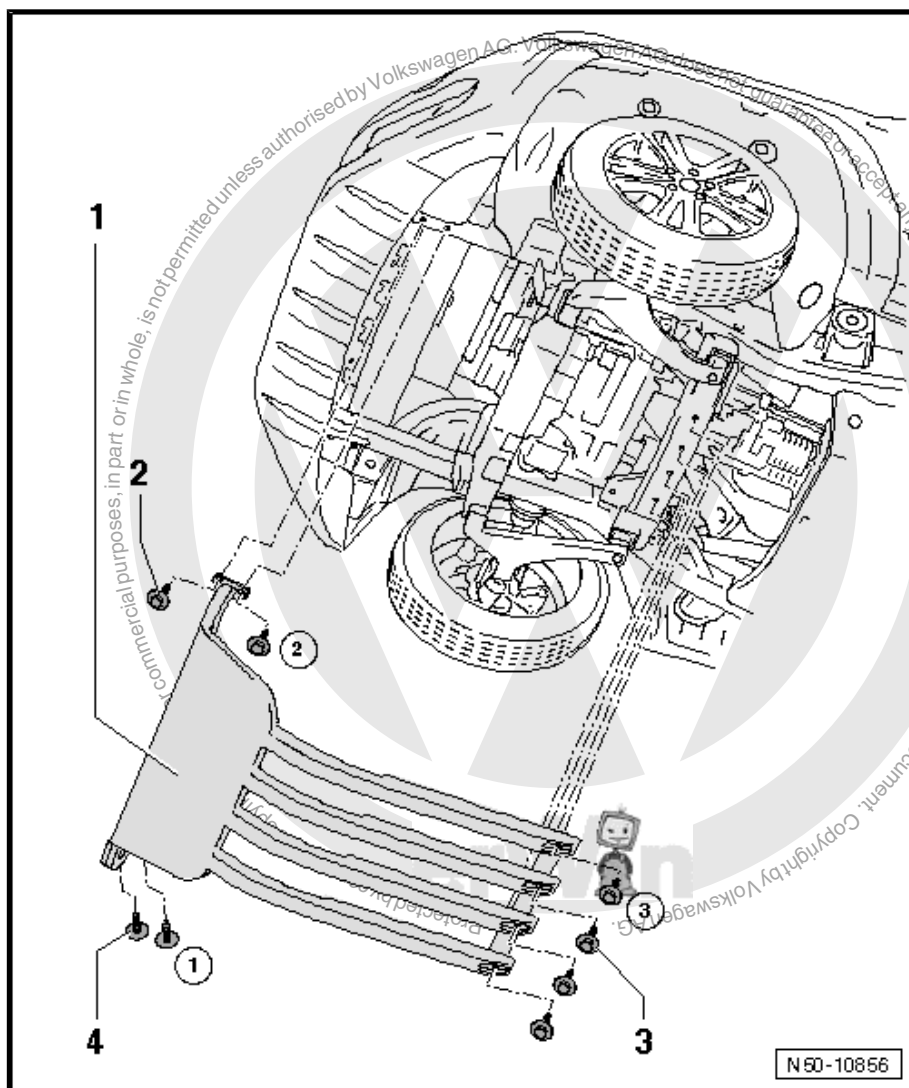
## Removing



- Remove bolts -2-, -3- and -4-.
- Remove engine/gearbox guard -1- downwards.

## Installing





- Install engine/gearbox guard -1-.

**Comply with installation sequence!**

- First position bolts -4-, then bolts -2-, and then bolts -3-.
- [⇒ “3.1 Assembly overview - engine/gearbox guard”, page 289](#)





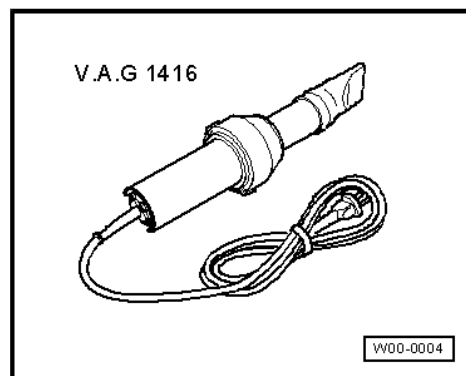
## 4 Roof moulding and roof railing

⇒ ["4.1 Renewing roof strip", page 292](#)

### 4.1 Renewing roof strip

#### Special tools and workshop equipment required

- ◆ Hot air blower -V.A.G 1416-



#### Fitting notes

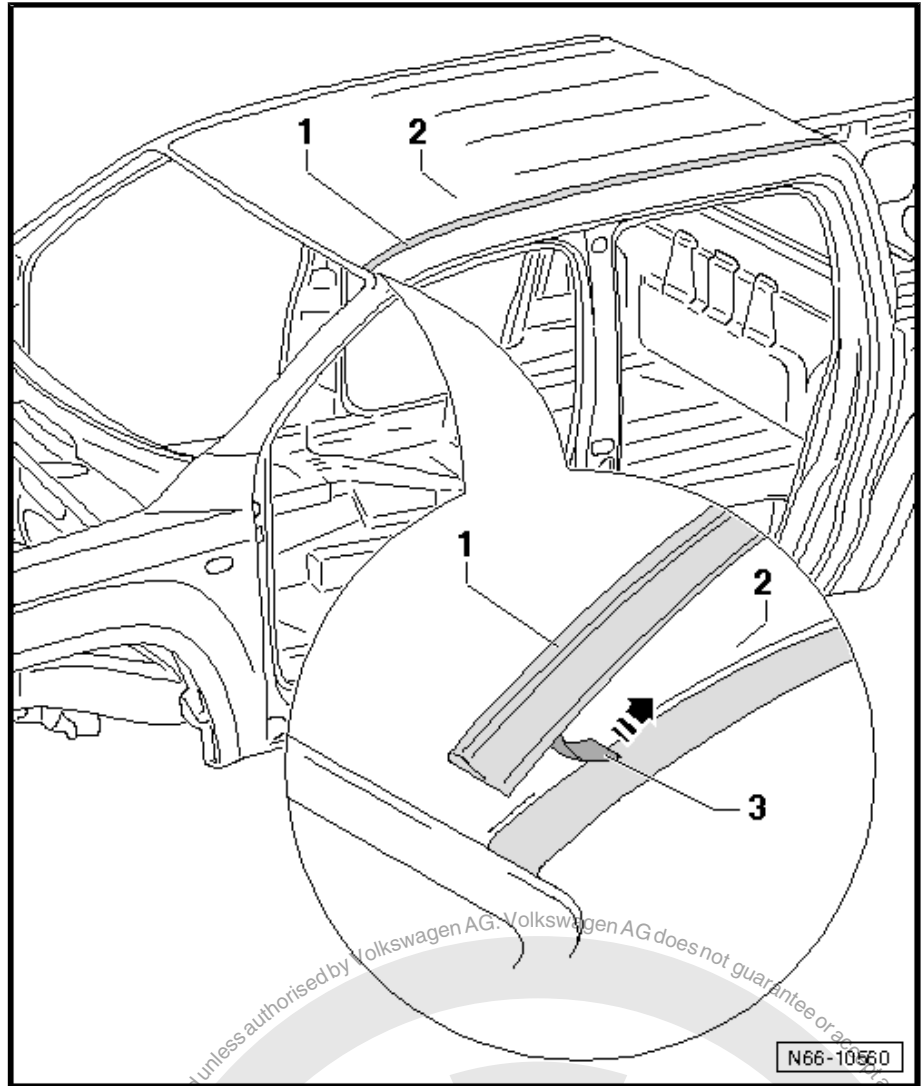
- ◆ Warm roof moulding with hot air blower -V.A.G 1416- before removing.
- ◆ If a roof moulding is installed for the first time on a new vehicle and newly painted surfaces, follow the procedure in ⇒ Workshop manual "Paint"; ⇒ Paintwork repairs; ⇒ Paint finish; ⇒ Mouldings and film .
- ◆ If a roof moulding is removed and reinstalled, only use adhesive remover -D 002 000 10- to remove the adhesive remains.
- ◆ Ensure that the adhesive surfaces are free of dust and grease.
- ◆ Stick on roof moulding immediately after cleaning.
- ◆ Remove backing only immediately before installation.
- ◆ Working temperature is approx. 21 °C.
- ◆ Roof moulding cannot be removed without damage.



#### Note

*Renewing roof moulding is described only for the left side. The right side is similar.*





#### Removing

- Heat roof moulding -1- with a hot air blower -V.A.G 1416- and pull it off roof -2-.

#### Installing

- Follow installation instructions ⇒ [page 292](#) .
- Thoroughly clean bonding surface immediately before sticking on.
- Pull off backing -3- in -direction of arrow-.
- Position roof moulding -1- on front edge of roof (windscreen).
- Press roof moulding -1- on forcefully along the entire length.





## 5 Exterior mirror

⇒ "5.1 Assembly overview - exterior mirror", page 294

⇒ "5.2 Removing and installing mirror glass", page 294

⇒ "5.3 Removing and installing housing frame", page 297

⇒ "5.4 Removing and installing mirror housing", page 299

⇒ "5.5 Removing and installing exterior mirror", page 300

### 5.1 Assembly overview - exterior mirror



#### Note

Only the left side is shown. The right side is similar.

#### 1 - Mirror mounting

- ❑ Removing and installing  
⇒ page 300

#### 2 - Bolt

- ❑ Qty. 3
- ❑ Specified torque: 6.0 Nm

#### 3 - Lower trim

- ❑ Removing and installing  
⇒ page 299

#### 4 - Housing frame

- ❑ Removing and installing  
⇒ page 297

#### 5 - Bolt

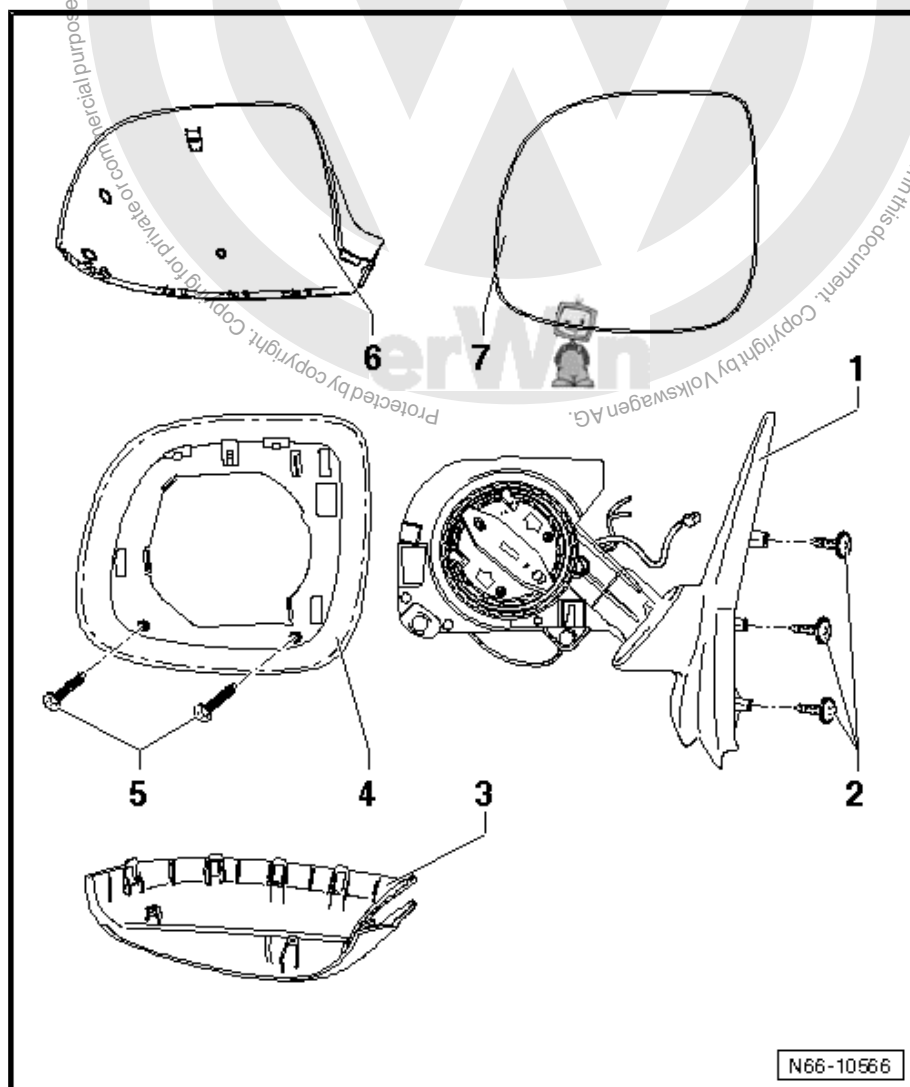
- ❑ Qty. 2
- ❑ Specified torque: 2.0 Nm

#### 6 - Mirror housing

- ❑ Removing and installing  
⇒ page 299

#### 7 - Mirror glass

- ❑ Removing and installing  
⇒ page 294



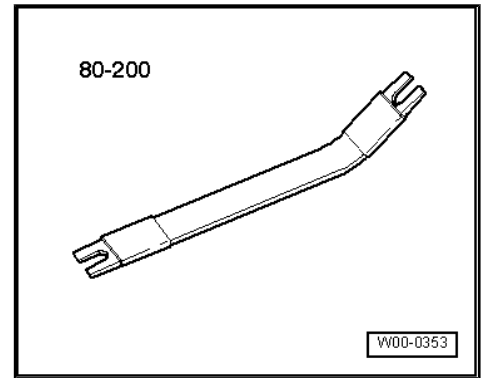
### 5.2 Removing and installing mirror glass

Special tools and workshop equipment required





◆ Removal lever -80 - 200-



**i** Note

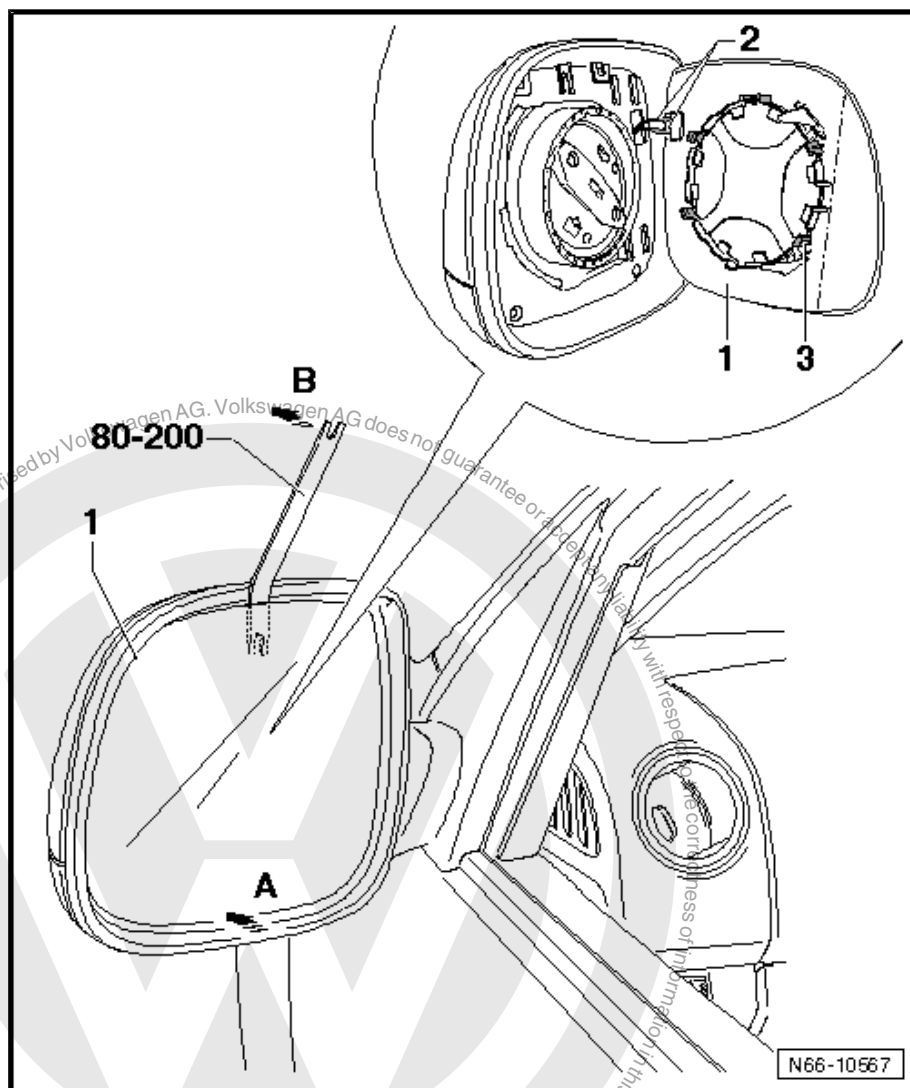
*The removal and installation sequence is only for the left mirror glass. The removal and installation of the right mirror glass is similar.*



**WARNING**

***When doing this repair work, always wear safety goggles and leather gloves!***





### Removing

- Protect housing edges to prevent damage to paintwork with, for example, textile reinforced tape.
- Press bottom of mirror glass -1- in -direction of arrow- into mirror housing.
- Using removal lever -80 - 200- , press mirror glass -1- in -direction of arrow B- out of adjustment unit.



### Note

Clip -3- Qty. 6

- Swivel mirror glass -1- to side and detach connectors -2- for electric anti-dazzle and mirror heating on back of mirror glass -1-.

### Installing

- Push contacts -2- for mirror heating onto mirror glass -1-.
- Push mirror glass -1- centrally onto adjustment unit in housing.
- Mirror glass -1- clicks audibly into clip -3-.



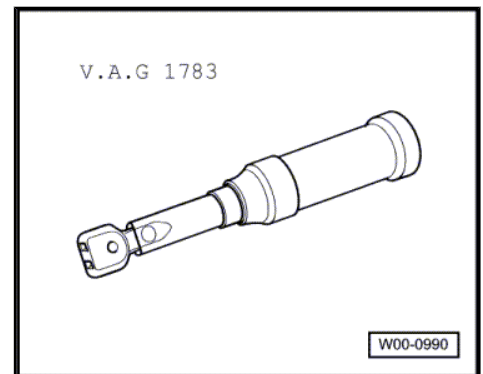


- Then check the function.

### 5.3 Removing and installing housing frame

#### Special tools and workshop equipment required

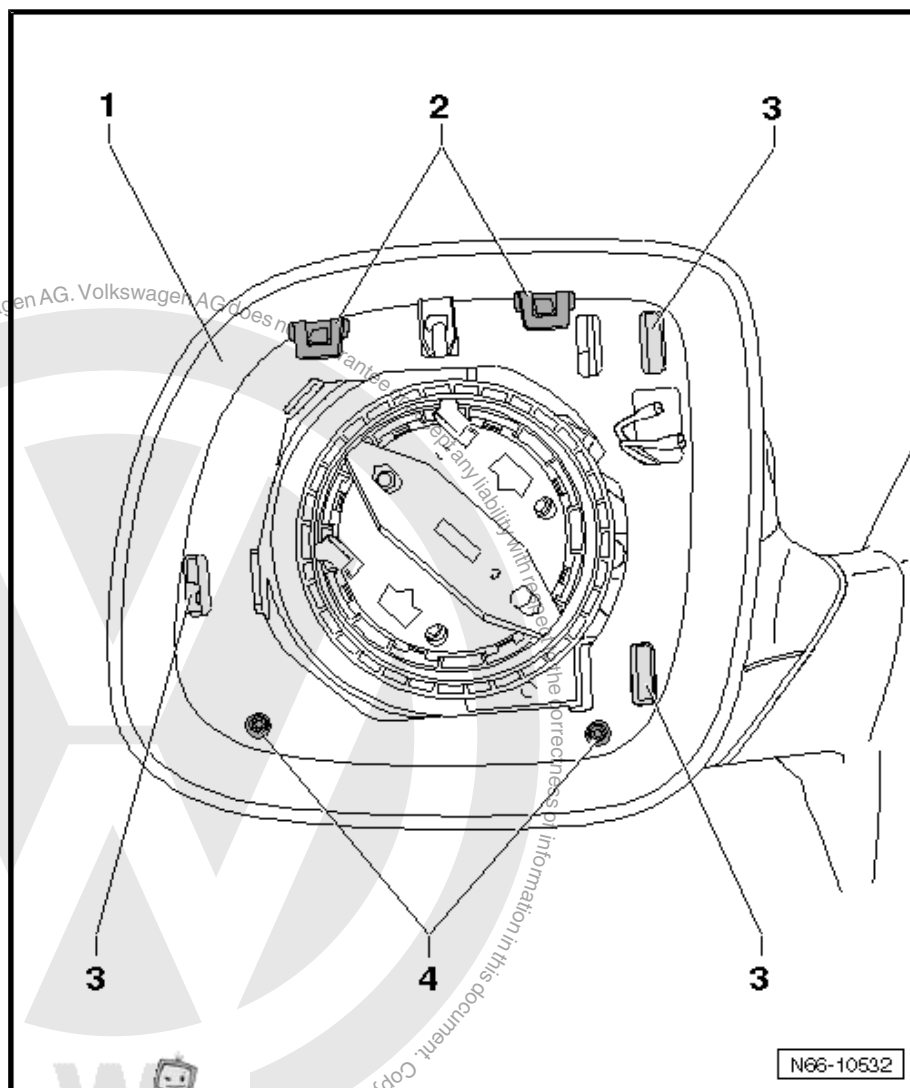
- ◆ Torque wrench -V.A.G 1783-



#### Note

*The removal and installation sequence is only for the left housing frame. The removal and installation of the right housing frame is similar.*





### Removing

- Remove mirror glass ⇒ [page 294](#) .
- Remove 2 bolts -4-.
- Break off clips -2- (qty. 2) at top towards mirror housing.
- Release retaining hook -3- and pull housing frame -1- off forwards.

### Installing

- Push housing frame -1- centrally onto mirror mounting.
- Housing frame -1- engages audibly.

### Specified torques

- ◆ Bolts -4- ⇒ [Item 5 \(page 294\)](#)



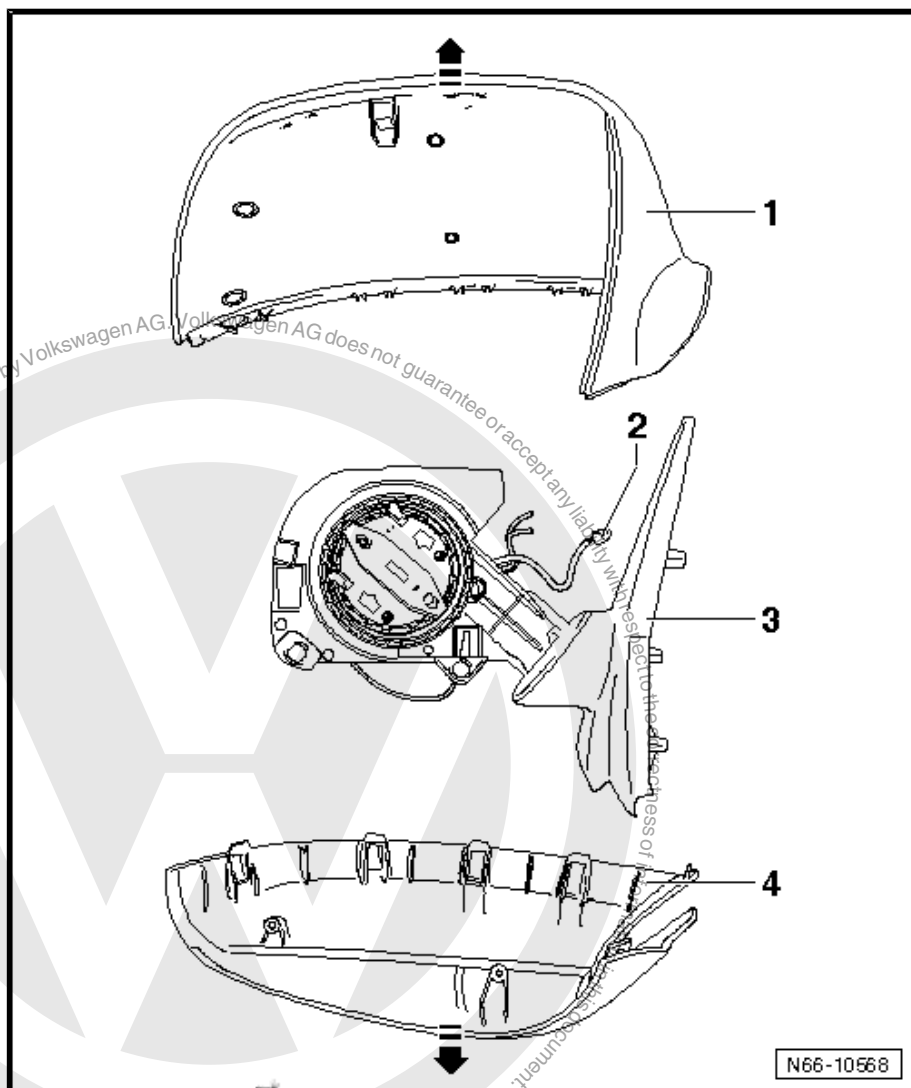


## 5.4 Removing and installing mirror housing



### Note

- ◆ The removal and installation sequence is only for the left mirror housing. The removal and installation of the right mirror housing is similar.
- ◆ If there is any damage on and inside the exterior mirror, the mirror housing and lower trim must be replaced. The mirror housing needs to be painted depending on the equipment.



### Removing

- Remove housing frame ⇒ [page 297](#).
- Detach connector -2-.
- Disconnect clips from mirror housing -1- and lower trim -4- (qty. 5).
- To do this, press mirror housing -1- and lower trim -4- apart in -direction of arrow-.
- Remove mirror housing -1- and lower trim -4- off mirror mounting -3-.





## Installing

- Press mirror housing -1- and lower trim -4- together on mirror mounting -3- (clip engages audibly).

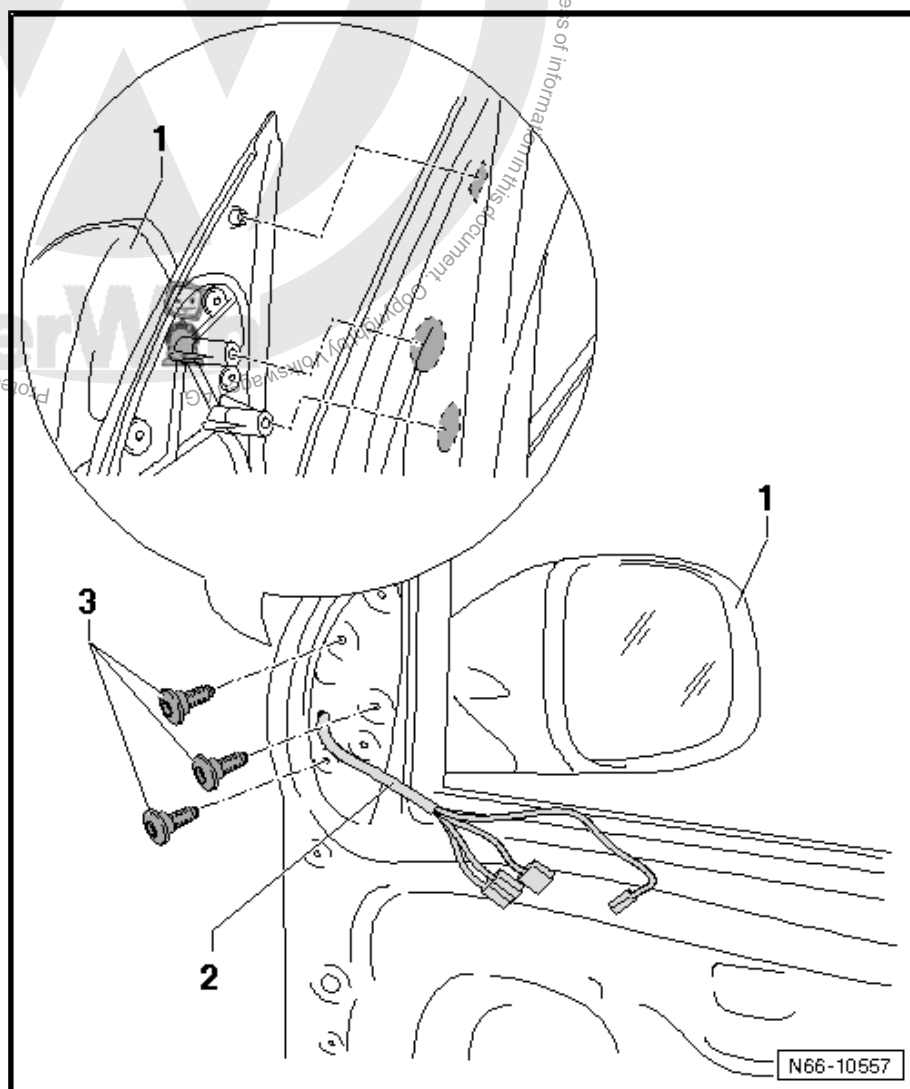
Further installation is performed in the reverse order of removal.

## 5.5 Removing and installing exterior mirror



### Note

*The removal and installation sequence is only for the left exterior mirror. The removal and installation of the right exterior mirror is similar.*



## Removing

- Remove front door trim cover ⇒ General body repairs, interior; Rep. gr. 70 ; Trims/insulation; Door trims .
- Remove front door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Trims/insulation; Door trims .
- Disconnect earth cable and connectors -3- from subframe.
- Remove screws -2- and take exterior mirror -1- off door.





- Pull out cable through hole in door.

#### Installing

- Fit exterior mirror -1- and clip it in.

#### Tighten screws in following sequence:

- Pull off exterior mirror -1- frontwards and upwards.
- First tighten lower screw, then upper screw and finally centre screw.

Further installation of mirror -1- is carried out in reverse order of removal.

#### Specified torques

- ◆ Bolts -3- ⇒ [Item 2 \(page 294\)](#)







## 6 Wheel housing liner

⇒ [“6.1 Assembly overview - front wheel housing liner”,  
page 302](#)

⇒ [“6.2 Assembly overview - fasteners for rear wheel housing liner”,  
page 303](#)

⇒ [“6.3 Assembly overview - rear wheel housing liner”,  
page 304](#)

⇒ [“6.4 Removing and installing front wheel housing liner”,  
page 304](#)

⇒ [“6.5 Removing and installing rear wheel housing liner”,  
page 306](#)

### 6.1 Assembly overview - front wheel housing liner



#### Note

- ◆ Only the left side is shown. The right side is similar.
- ◆ Minor differences to the description may be encountered, depending on vehicle model.

#### 1 - Front wheel housing liner

- ❑ Removing and installing  
⇒ [page 304](#)

#### 2 - Bolt

- ❑ Qty. 11
- ❑ Specified torque: 2.0 Nm

#### 3 - Hexagon nut

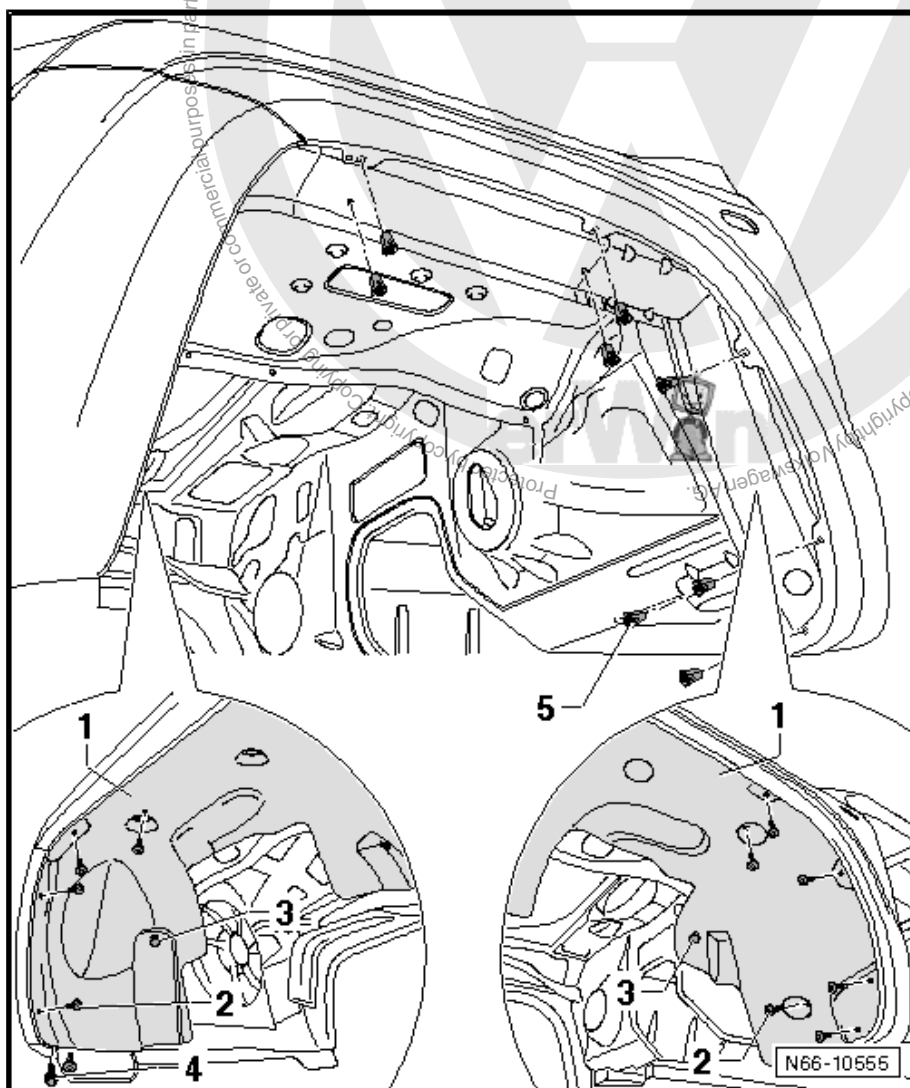
- ❑ Qty. 2

#### 4 - Bolt

- ❑ Specified torque: 6.0 Nm
- ❑ Bolted to front bumper cover.

#### 5 - Expanding nut

- ❑ Qty. 8







## 6.2 Assembly overview - fasteners for rear wheel housing liner



### Note

- ◆ Only the left side is shown. The right side is similar.
- ◆ Minor differences to the description may be encountered, depending on vehicle model.

#### 1 - Expanding nut

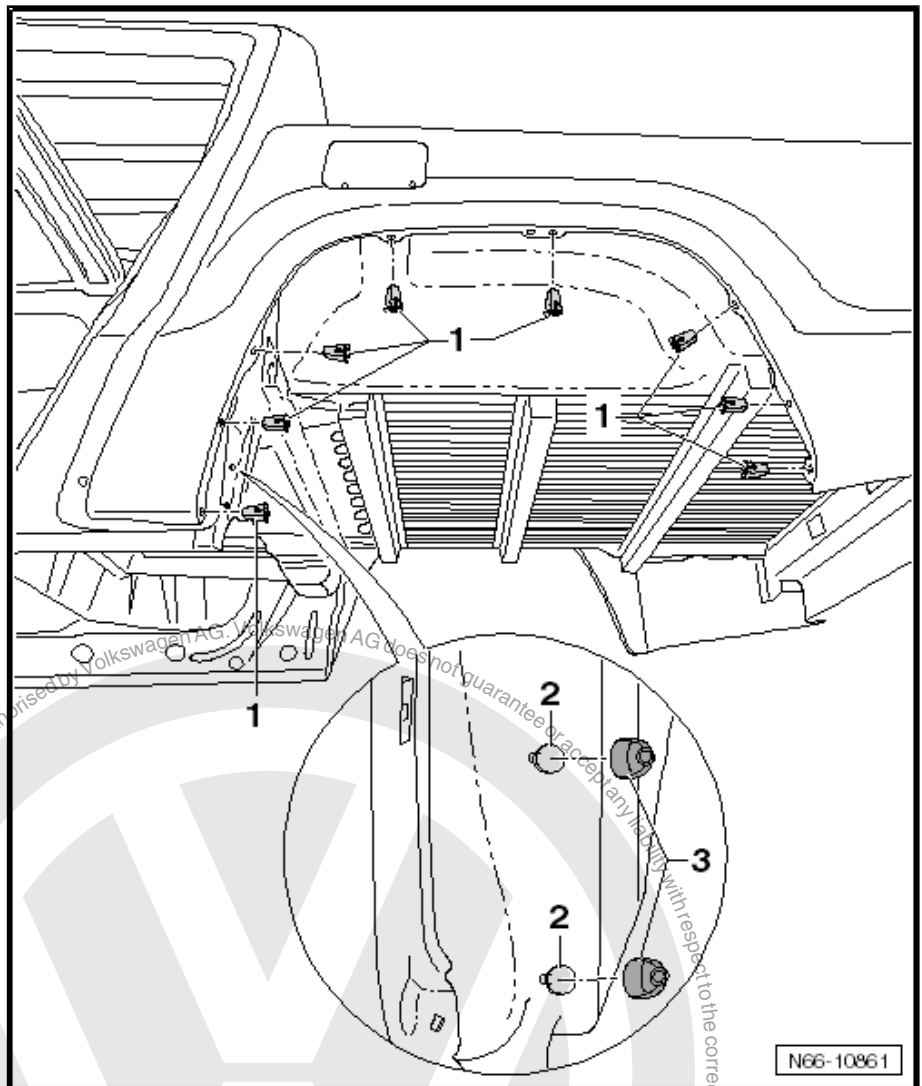
- Qty. 8 on each side

#### 2 - T-pin

- Qty. 2 on each side

#### 3 - Buffer

- Qty. 2 on each side
- Buffer must be drawn over T-pin.







## 6.3 Assembly overview - rear wheel housing liner



### Note

- ◆ Only the left side is shown. The right side is similar.
- ◆ Minor differences to the description may be encountered, depending on vehicle model.

#### 1 - Rear wheel housing liner

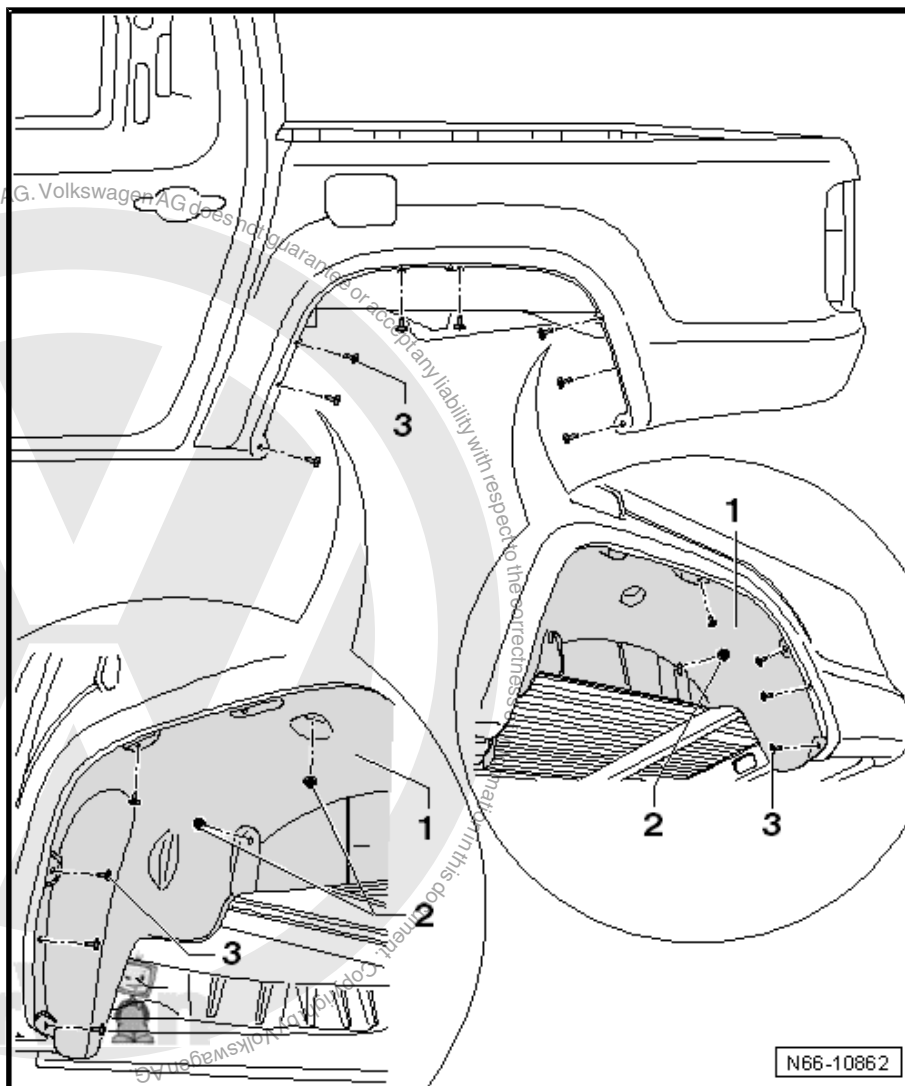
- Removing and installing  
⇒ [page 306](#)

#### 2 - Hexagon nut

- Qty. 3
- Specified torque: 2.0 Nm

#### 3 - Bolt

- Qty. 8
- Specified torque: 2.0 Nm



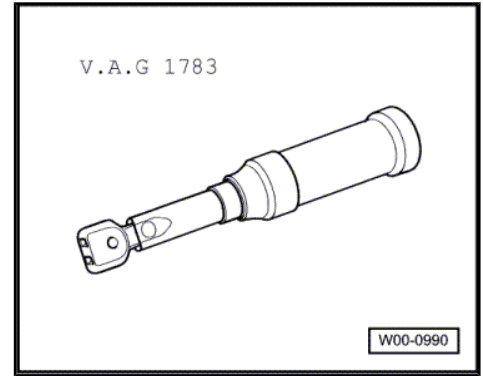
## 6.4 Removing and installing front wheel housing liner

Special tools and workshop equipment required



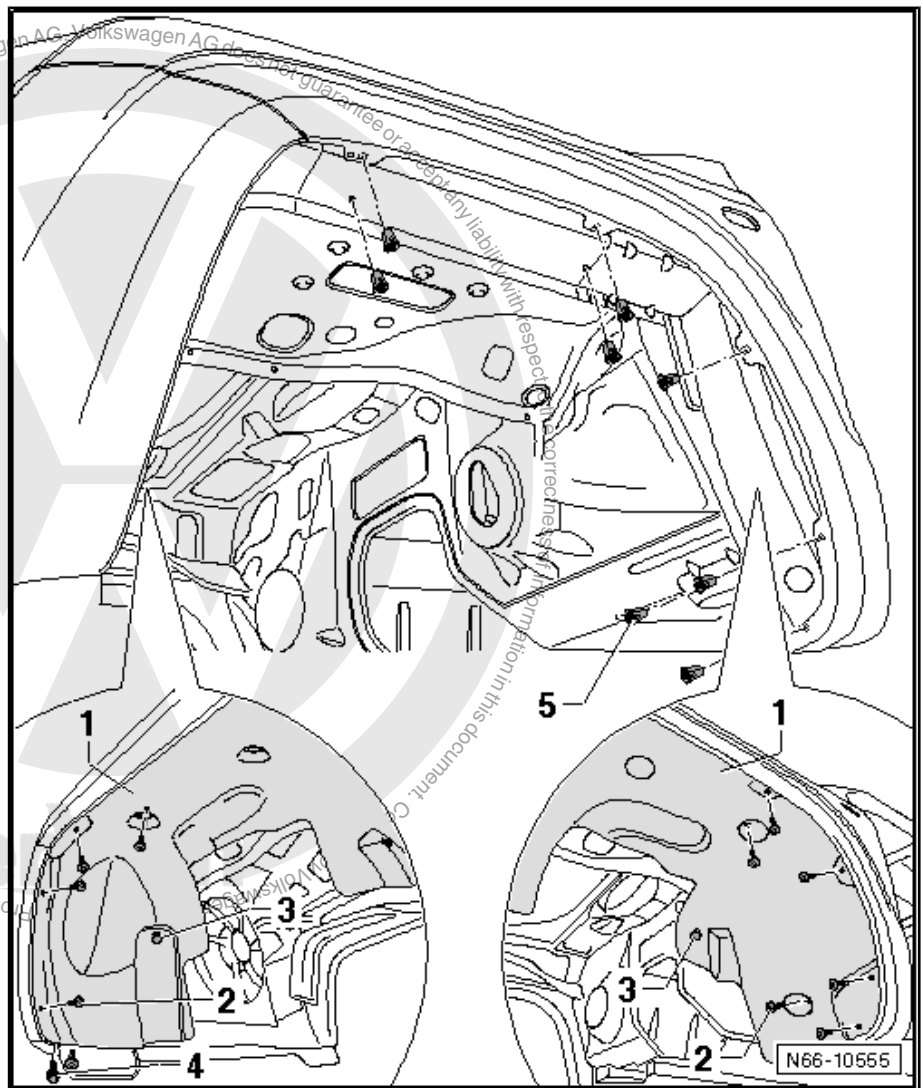


- ◆ Torque wrench -V.A.G 1783-



**Note**

- ◆ The removal and installation sequence is only for the left wheel housing liner. Removal and installation of the right wheel housing liner are similar.
- ◆ The removal and installation procedures may have to be modified slightly depending on model variants.







## Removing

- Remove wheel ⇒ Running gear; Rep. gr. 44 ; Specified torques for wheel bolts .
- Remove bolts -2- and -4-.
- Unscrew hexagon nut -3-.
- Pull wheel housing liner -1- out of wing.

## Installing



### Note

*Check spreader nuts -5- for damage and renew if necessary.*

- Insert wheel housing liner -1- into wing.
- Position bolts and hexagon nut and tighten.

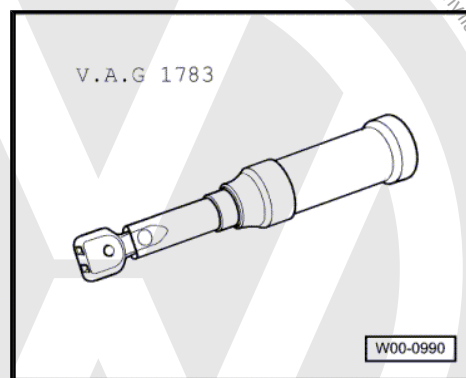
## Specified torques

- ♦ ⇒ [“6.1 Assembly overview - front wheel housing liner”, page 302](#)

## 6.5 Removing and installing rear wheel housing liner

### Special tools and workshop equipment required

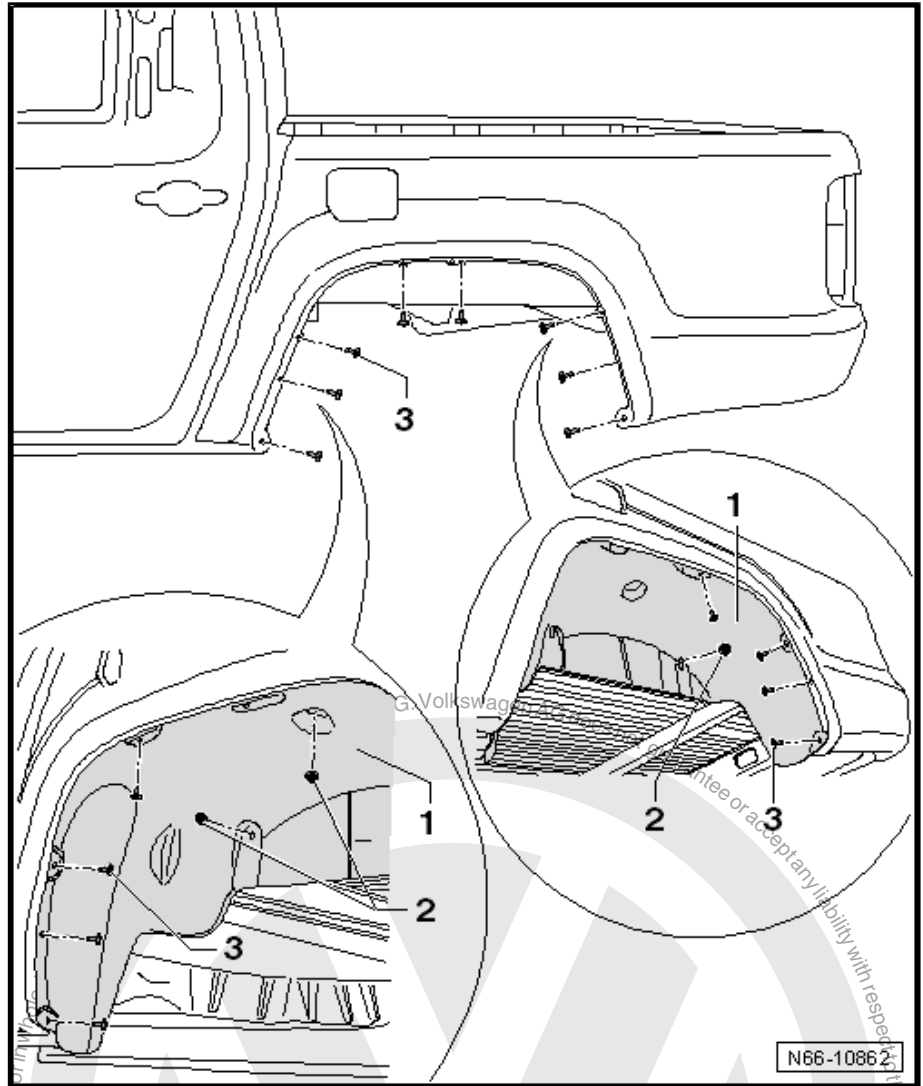
- ♦ Torque wrench -V.A.G 1783-



### Note

- ♦ *The removal and installation sequence is for the rear left wheel housing liner only. Removal and installation of the rear right wheel housing liner is similar.*
- ♦ *The removal and installation procedures may have to be modified slightly depending on model variants.*





#### Removing

- Remove wheel ⇒ Running gear; Rep. gr. 44 ; Specified torques for wheel bolts
- Remove bolts -3-.
- Unscrew hexagon nut -2-.
- Pull rear wheel housing liner -1- out of wheel house.

#### Installing

- Insert rear wheel housing liner -1- into wheel house.

#### Specified torques

- ◆ ⇒ ["6.3 Assembly overview - rear wheel housing liner,"](#)  
[page 304](#)





## 7 Lettering and emblems

⇒ "7.1 Dimensions - lettering and emblems", page 308

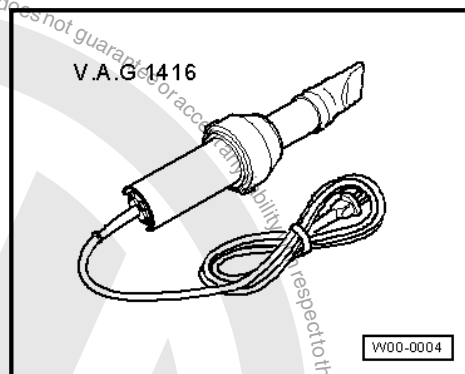
⇒ "7.2 Removing and installing radiator grille emblem",  
page 311

⇒ "7.3 Removing and installing emblem on tailgate", page 312

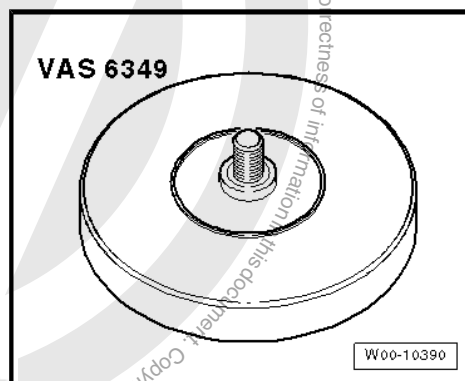
### 7.1 Dimensions - lettering and emblems

#### Special tools and workshop equipment required

- ◆ Hot air blower -V.A.G 1416-



- ◆ Adhesive strip remover -VAS 6349-



#### Note

- ◆ The vertical and horizontal dimensions of lettering for the different engines is identical.
- ◆ When attaching the lettering, observe the fitting notes below.

#### Fitting notes

- ◆ Heat lettering or emblem with hot air blower -V.A.G 1416- before removing.
- ◆ If lettering or an emblem is applied for the first time to a new vehicle or a newly painted surface, follow the procedure described in ⇒ Workshop manual "Paint" ⇒ Paintwork repairs ⇒ Paint finish ⇒ Mouldings and film .
- ◆ If the lettering or emblem is removed and reinstalled, use only adhesive remover -D 002 000 10- to remove residual adhesive.
- ◆ Remove existing adhesive residue of adhesive tape using adhesive strip remover -VAS 6349- .
- ◆ Ensure that the adhesive surfaces are free of dust and grease.





- ◆ Lettering or emblem must be bonded in place immediately after cleaning.
- ◆ Remove backing only immediately before installation.
- ◆ Working temperature is approx. 21°C.
- ◆ Bonded lettering or emblems cannot be removed without being damaged.

### Rear lid lettering



#### Note

Follow the fitting notes when applying the lettering ⇒ [page 308](#)

#### 1 - Lettering

- ☐ Model designation.

#### 2 - Rear lid

#### 3 - Height dimension

- ☐ 66 mm from edge in rear lid to lettering.

#### 4 - Horizontal dimension

- ☐ 31 mm from outer edge of rear lid to lettering.

#### 5 - Lettering

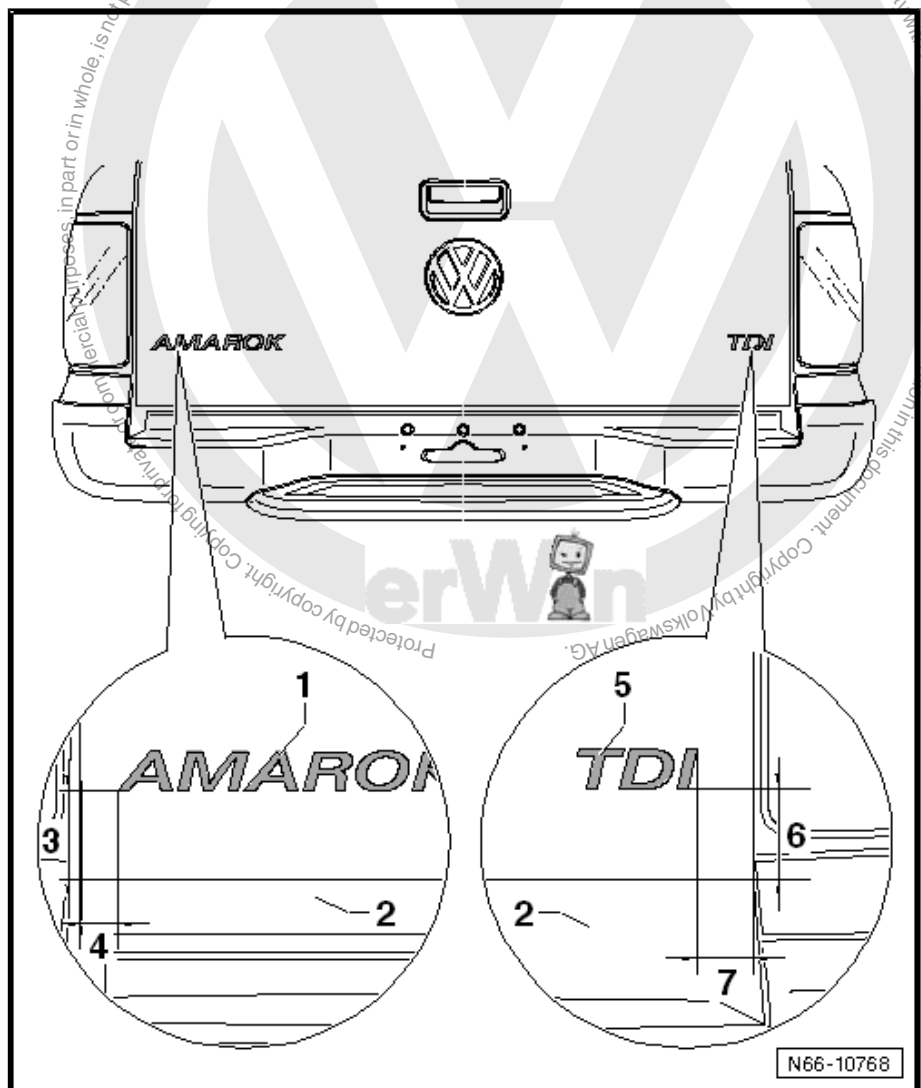
- ☐ Engine designation.

#### 6 - Height dimension

- ☐ 66 mm from edge in rear lid to lettering.

#### 7 - Horizontal dimension

- ☐ 41 mm from outer edge of rear lid to lettering.



### Tailgate lettering, 4 MOTION



#### Note

Follow the fitting notes when applying the lettering ⇒ [page 308](#)





**1 - Lettering**

- ☐ Engine designation.

**2 - Lettering**

- ☐ Model designation.

**3 - Rear lid**

**4 - Height dimension**

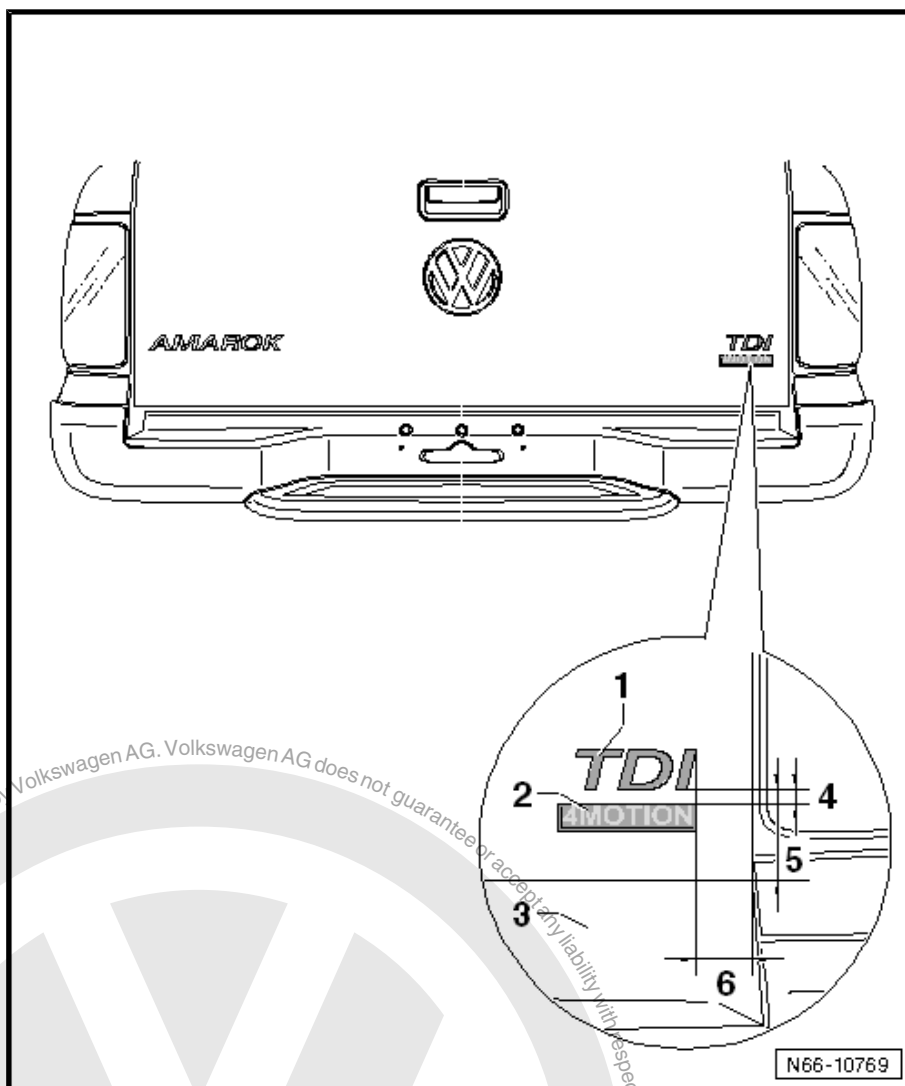
- ☐ 12 mm gap between edges of lettering.

**5 - Height dimension**

- ☐ 66 mm from edge in rear lid to lettering.

**6 - Horizontal dimension**

- ☐ 41 mm from outer edge of rear lid to lettering.







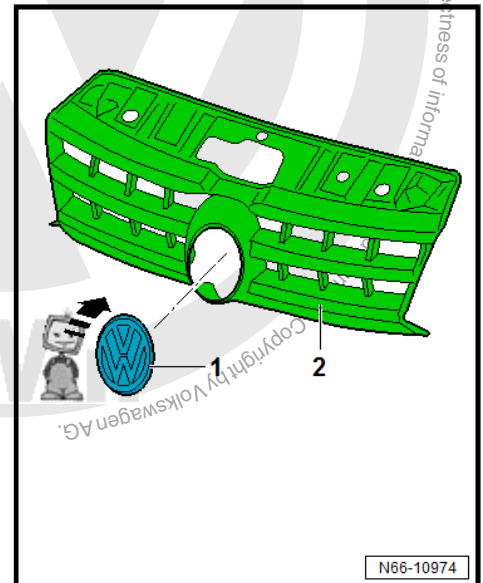
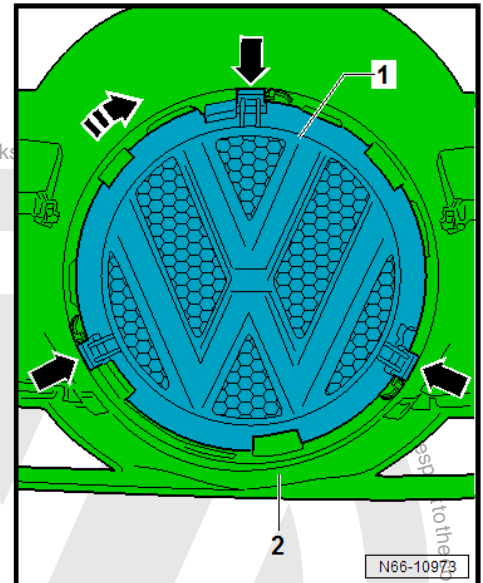
## 7.2 Removing and installing radiator grille emblem

### Removing

- Remove front bumper cover ➔ [page 236](#) .
- Release hooks -arrows- on back of emblem -1-.
- Rotate emblem -2- slightly in -direction of arrow- and pull forward out of radiator grille -2-.

### Installing

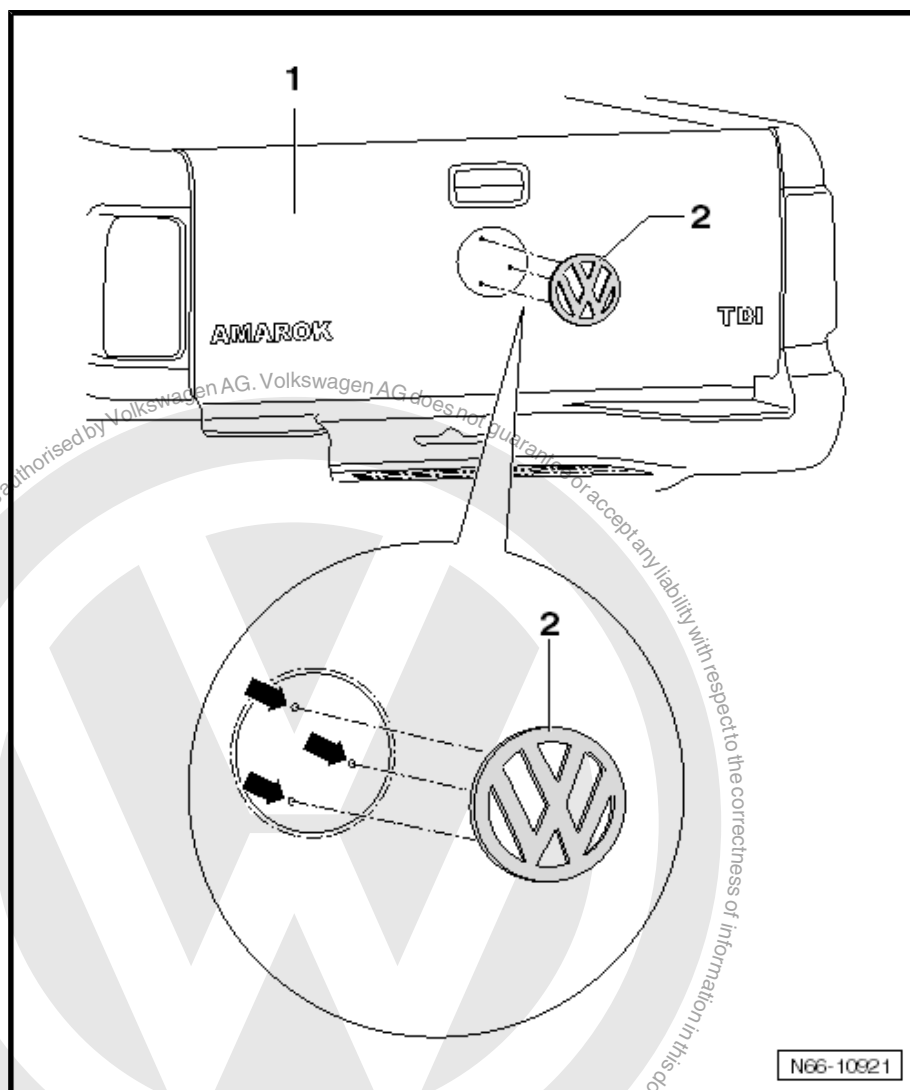
- Guide emblem -1- with its retaining hooks in notches into radiator grille -2-.
- Turn emblem -1- slightly in -direction of arrow- until emblem -1- engages in radiator grille -2-.







### 7.3 Removing and installing emblem on tailgate



#### Removing

- Warm emblem -2- with hot air blower -V.A.G 1416- before removing.
- Lever off emblem -2- from tailgate -1- using removing wedge -3409- .

#### Installing

- Follow installation instructions ⇒ [page 308](#) .
- Remove protective paper from adhesive foam tape.
- Position emblem -2- with centring pins in embossings -arrows- on tailgate -1-.
- Press emblem -2- on firmly.





## 8 Wheel arch trim (PR No. "0FA")

⇒ ["8.1 Repair instructions", page 313](#)

⇒ ["8.2 Removing and installing wheel arch trim, wing", page 317](#)

⇒ ["8.3 Removing and installing wheel arch trim - left load bed", page 321](#)

⇒ ["8.4 Removing and installing wheel arch trim - right load bed", page 325](#)

### 8.1 Repair instructions

⇒ ["8.1.1 Safety requirements", page 313](#)

⇒ ["8.1.2 Installation instructions for wheel arch trims", page 313](#)

⇒ ["8.1.3 Preparing new add-on part for bonding", page 314](#)

⇒ ["8.1.4 Preparing body component for bonding", page 314](#)

⇒ ["8.1.5 Installation instructions for wheel arch trims", page 315](#)

⇒ ["8.1.6 Minimum curing period", page 316](#)

⇒ ["8.1.7 Touching up paint damage", page 316](#)

⇒ ["8.1.8 Cleaning off excess adhesive sealing material", page 316](#)

⇒ ["8.1.9 Cleaning guidelines", page 317](#)

#### 8.1.1 Safety requirements



##### Caution

*When removing extensions, use suitable gloves and protective eyewear.*

*Do not use cutting wire to remove extensions.*

*Extensions must cure at least 3 hours after being bonded before work on the vehicle is continued.*



##### Note

- ◆ *The following wheel arch trims have been developed to fulfil the technical requirements of the respective models. These extensions should always be replaced with the corresponding genuine parts.*
- ◆ *Without these extensions, the vehicle does not comply with traffic regulations.*

#### 8.1.2 Installation instructions for wheel arch trims

The wheel arch trim is factory-bonded with double-sided adhesive tape and 1-component PU adhesive.

The wheel arch trim is primed by the supplier and delivered with double-sided adhesive tape.

Ensure that backing of double-sided adhesive tape strips remains free of paint and paint mist when painting extensions.





Temperatures of the room, the work bay and the vehicle must be approximately the same (18 °C and max. 30 °C).

Remove existing adhesive tape residues with adhesive remains remover -VAS 6349- .

Always use a clean, lint-free cloth for cleaning.

Immediately before attaching add-on parts, clean bonding surfaces using adhesive remover and then carefully remove dirt, grease, wax and other impurities using plastic cleaner.

- Observe the appropriate safety precautions when cleaning.

Remove backing only immediately before installation.

Before washing and preserving the vehicle, ensure that the wheel arch trims have been bonded for at least 3.5 hours.

### 8.1.3 Preparing new add-on part for bonding



#### WARNING

*Before painting, use masking tape to precisely demarcate all priming and bonding surfaces.*

#### For 1-component glass adhesive

- The bonding surfaces of the add-on parts must be prepared with plastic primer.
- Apply 1-component glass adhesive at specified positions on add-on parts using cartridge gun -V.A.G 1628- .

### 8.1.4 Preparing body component for bonding

- Remove existing adhesive residue of double-sided adhesive tape using adhesive strip remover -VAS 6349- .
- Cut back adhesive points of PUR adhesive to about 2 - 3 mm without damaging paintwork.
- The cut surfaces do not require additional cleaning.



#### Note

*Remaining material serves as adhesion base for newly applied adhesive sealing compound.*

- Observe cleaning instructions for adjacent components  
⇒ [page 317](#) .
- New special add-on parts may be attached immediately at the prescribed positions with the adhesive points.

If the body part has been repaired or partially renewed, the area concerned must be cleaned and primed again after painting.

If a body part is fitted for the first time on a new vehicle or on newly painted surfaces, follow the procedure in ⇒ Workshop manual "Paint"; ⇒ Paintwork repairs; ⇒ Paint finish; ⇒ Mouldings and film .





#### WARNING

**Exception: if bonding is performed later than one day after cutting back adhesive bead, the remaining residual material must be activated with activator -D 181 801 A1- .**

**Apply activator evenly in one stroke using applicator.**

**Activator must not come in contact with paint, or the paintwork will be damaged.**

**Drying time approx. 10 minutes.**

### 8.1.5 Installation instructions for wheel arch trims

#### Installation instructions



#### WARNING

**Add-on parts should be installed within 10 minutes, or bonding properties of adhesive will be impaired.**



#### Note

- ◆ Gaps/shut lines should be kept to an absolute minimum.
- ◆ Use adhesive tape to secure add-on parts in position during minimum curing time.
- ◆ The surfaces to be primed must be free from impurities
- ◆ If no cleanser is specified in the respective repair procedure, use silicone remover.
- Remove adhesive residue using adhesive remover.
- Clean application area for adhesive bead twice thoroughly using cleanser named in repair procedure and allow to dry.
- Now apply glass/paint primer evenly in one stroke using applicator.
- ◆ Drying time approx. 10 minutes
- Apply adhesive sealing material to primed areas of attachment parts.
- Max. of 6 minutes waiting time between application of adhesive and fitting of add-on parts.

#### Materials



#### Note

*The part numbers of the materials can be found in the ⇒ electronic parts catalogue .*

- ◆ 1K glass adhesive                      1) 2) 3) 4) 5)
- ◆ Activator                                      1) 5)
- ◆ Glass and paint primer                  1) 5)





- ◆ Plastic primer 1) 5)
- ◆ Cleaning solution 1) 5)
- ◆ Primer applicator 1) 5)
- ◆ Adhesive remover 1) 5)
- ◆ Cutting cord 5)

1) Observe instructions for use on the information sheet provided by the manufacturer.

2) Minimum curing period ⇒ [page 254](#)

3) Use cartridge gun -V.A.G 1628- to apply 1-component glass adhesive.

4) Heat according to manufacturer's instructions, using cartridge heater -V.A.G 1939- .

5) The part numbers of the materials can be found in the ⇒ electronic parts catalogue (ETKA) .

### 8.1.6 Minimum curing period

The minimum curing time is the time from bonding the add-on parts until the vehicle may be used.

Wait 3.5 hours before continuing work when bonding is done with double-sided adhesive tape and 1-component glass adhesive.

During this time, the vehicle must stand on a level surface and the room and object temperatures must be at least 18 °C.

Do not apply any direct load to bonding surfaces for at least 24 hours after installation.



#### WARNING

*It is safe to use vehicle only after the curing period is completed.*

### 8.1.7 Touching up paint damage

Paint structure must be restored according to specifications in the ⇒ "Paint" workshop manual .

### 8.1.8 Cleaning off excess adhesive sealing material



#### Note

*Use adhesive remover as a cleaning solution. Observe the appropriate safety precautions when performing this work.*

- If necessary, lift off escaping adhesive with a piece of cardboard.
- Clean painted surface as well as possible using a dry cloth.
- Remove residue using adhesive remover.





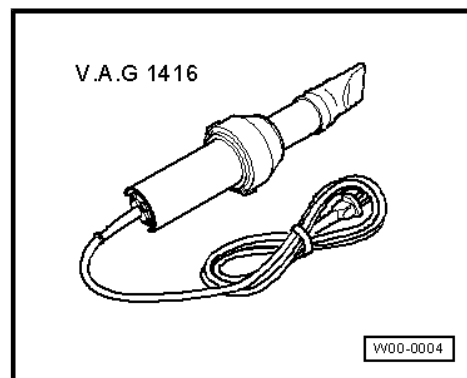
### 8.1.9 Cleaning guidelines

- Immediately before installing special add-ones, clean bonding surface thoroughly with adhesive remover.
- Then use plastic cleaner to carefully remove dirt, grease, wax and other contaminants.
- Always use a clean, lint-free cloth for cleaning.

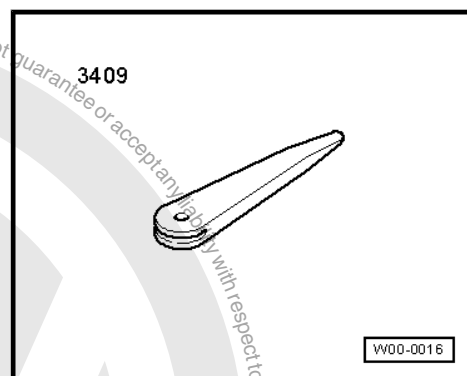
## 8.2 Removing and installing wheel arch trim, wing

### Special tools and workshop equipment required

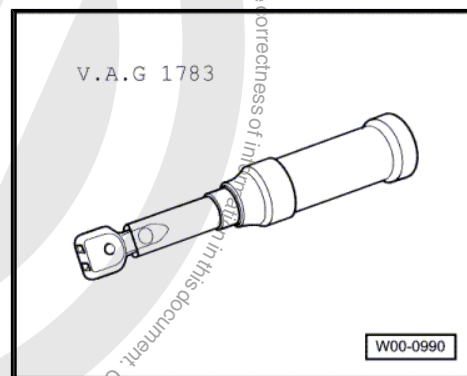
- ◆ Hot air blower -V.A.G 1416-



- ◆ Removal wedge -3409-



- ◆ Torque wrench -V.A.G 1783-



#### Note

*The removal and installation procedure is for the left side. The right side is similar.*





## Assembly overview - application of adhesive to wheel arch trim, wing

1 - Wheel arch trim, wing

2 - PUR adhesive sealant

### Bead section -a-

- -Length- = approx. 900 mm -height- = approx. 9.0 mm -width- = approx. 5.0 mm

### Bead section -b-

- -Length- = approx. 500 mm -height- = approx. 12 mm -width- = approx. 8.0 mm

### Bead section -c-

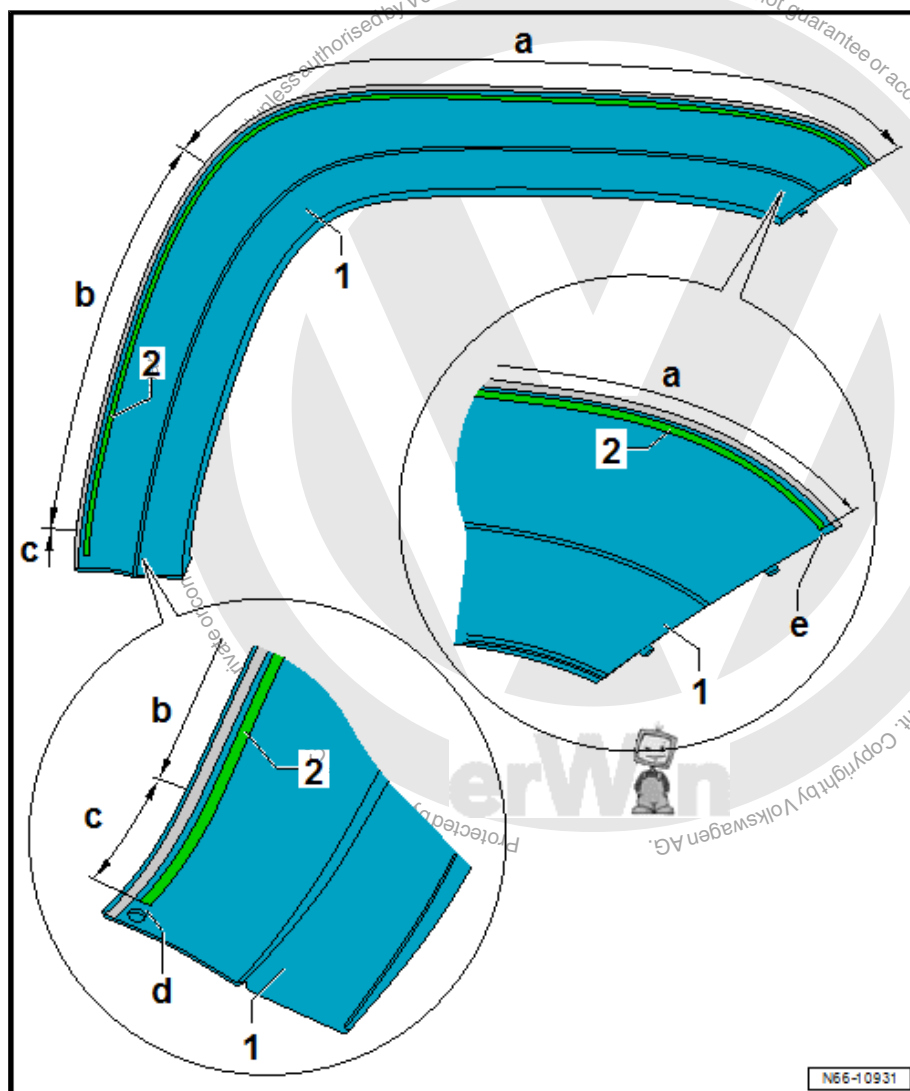
- -Length- = approx. 40 mm -height- = approx. 6.0 mm -width- = approx. 3.0 mm

### Section -d-

- Distance of PUR sealing material to hole, approx. 15 mm (adhesive must not enter hole)

### Section -e-

- Distance of PUR sealing material to edge, approx. 15 mm (adhesive must not go over edge)



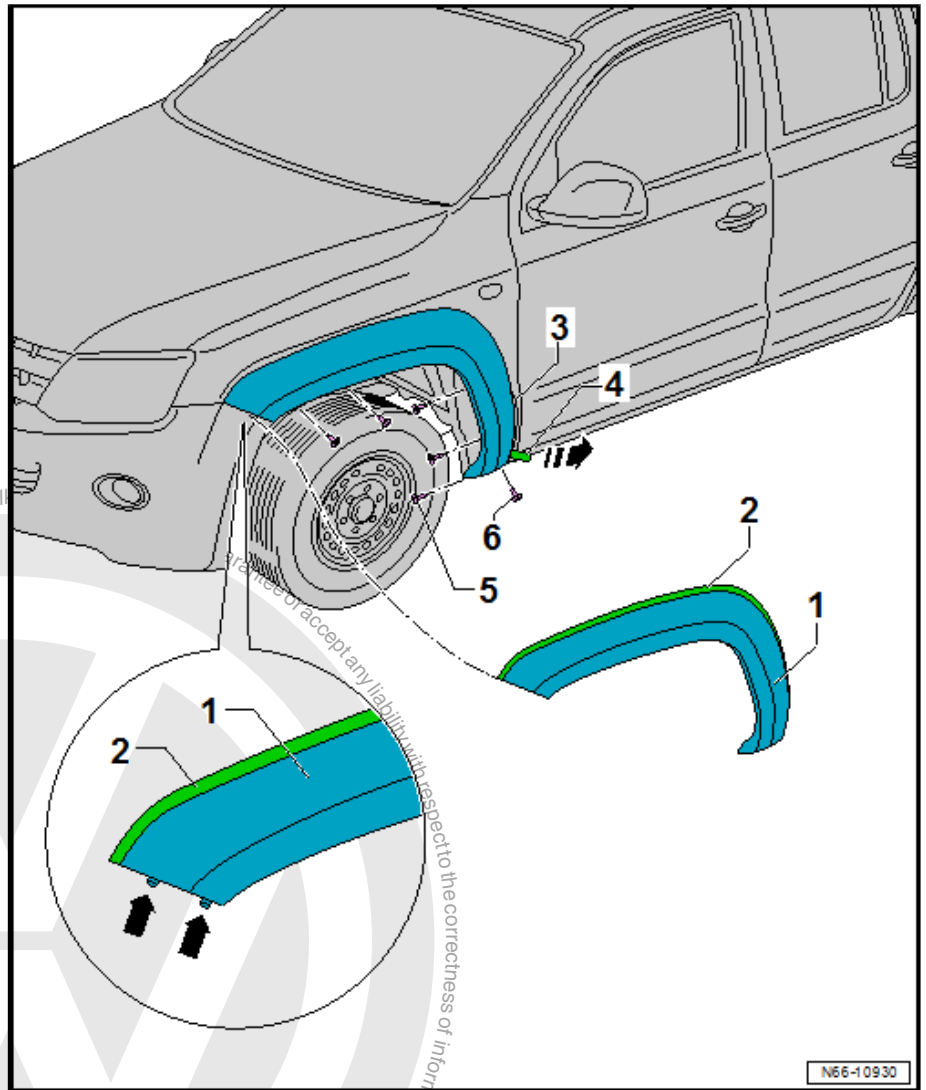
## Removing



### Note

- ◆ Wheel arch trim, wing, -1- cannot be removed without damaging it.
- ◆ Depending on wheel arch trim on front bumper cover, the locating pins -arrows- must be noted. It is possible that the types of pins are mixed.

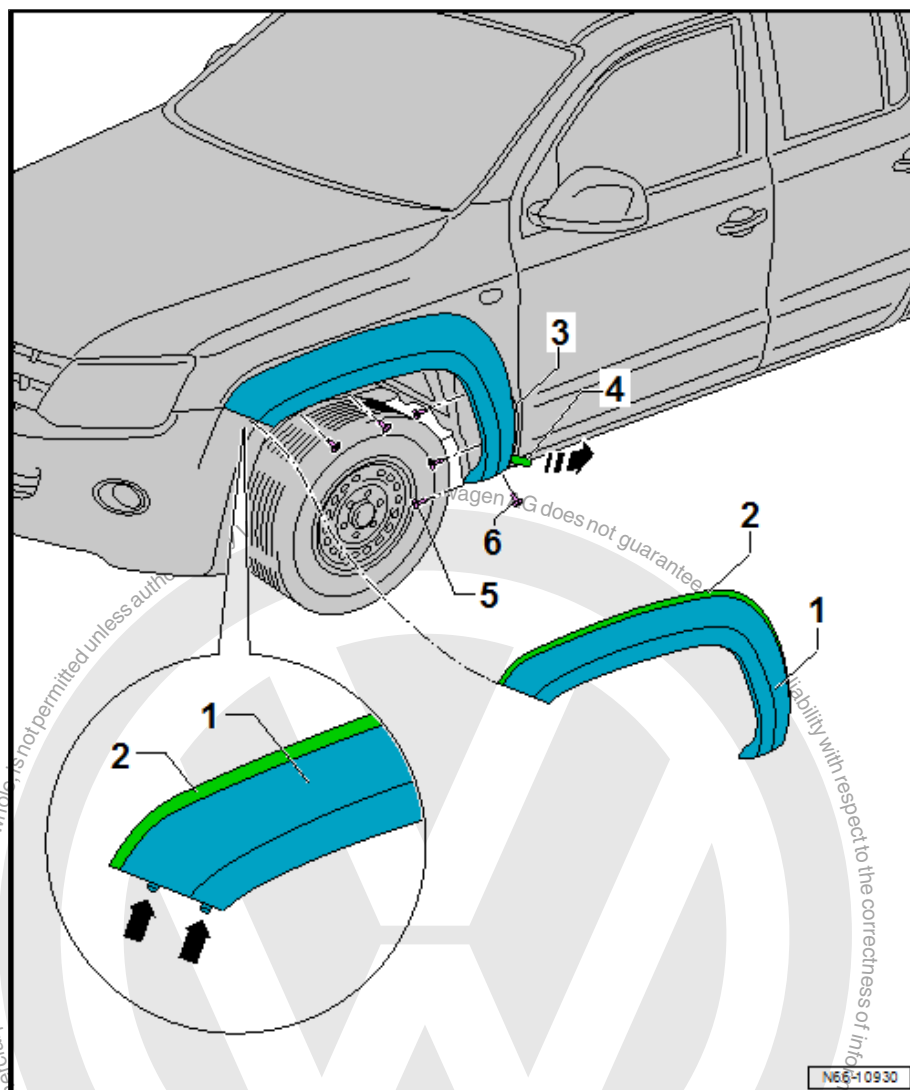




- Remove bolts -5- and -6-.
- Before removing wheel arch cover, wing -1-, heat the bonding area -2- using hot air blower -V.A.G 1416-.
- Lift one corner of wheel arch trim, wing, -1- using removal wedge -3409-.
- Grip under wheel arch trim, wing, -1- and carefully but firmly pull from wing -3-.

#### Installing





Installation instructions for wheel arch trims ⇒ [page 313](#) .

Preparing new add-on part for bonding ⇒ [page 314](#) .

Preparing body component for bonding ⇒ [page 314](#) .

Installation instructions ⇒ [page 315](#)

- Apply PUR adhesive beneath rib (primed area) ⇒ [page 318](#) .



#### Note

*Depending on wheel arch trim, front bumper cover, the locating pins -arrows- must be removed.*

- Insert the 2 locating pins -arrows- in the wheel arch trim, front bumper cover.
- Position wheel arch trim, wing, -1- using swage line -3- and check that edges are flush and aligned.
- Bolt on wheel arch trim, wing, -1- using wheel housing liner bolts -5- ⇒ [page 304](#) .
- Pull protective backing -4- off double-sided adhesive tape -2-.





- Press wheel arch trim -1- on forcefully in complete area of double-sided adhesive tape -2-, from front to rear.
- Tighten bolt -6-.

Observe minimum curing period ⇒ [page 316](#) .

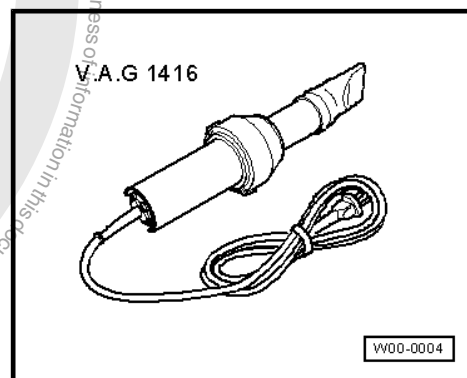
#### Specified torques

Component	Specified torque
Bolt -6-	2.0 Nm

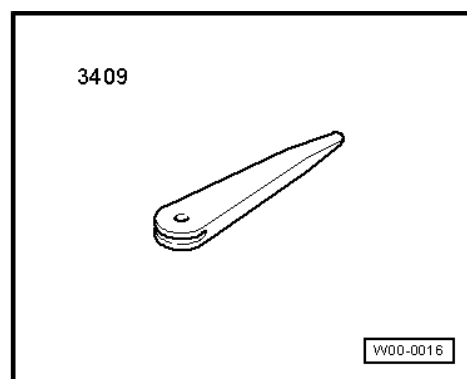
### 8.3 Removing and installing wheel arch trim - left load bed

#### Special tools and workshop equipment required

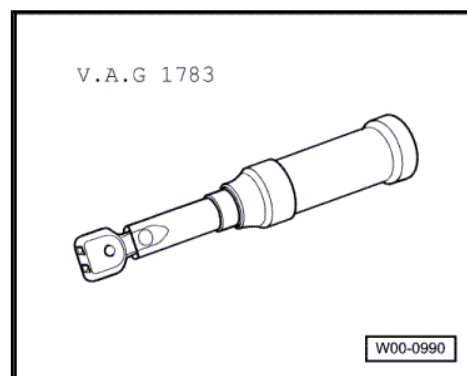
- ◆ Hot air blower -V.A.G 1416-



- ◆ Removal wedge -3409-



- ◆ Torque wrench -V.A.G 1783-



**Assembly overview - application of adhesive to wheel arch trim,  
left load bed**





## 1 - Wheel arch trim, left load bed

### 2 - PUR adhesive sealant

#### Bead section -a-

- -Length- = approx. 40 mm -height- = approx. 6.0 mm -width- = approx. 3.0 mm

#### Bead section -b-

- -Length- = approx. 460 mm -height- = approx. 12 mm -width- = approx. 8.0 mm

#### Bead section -c-

- -Length- = approx. 270 mm -height- = approx. 9.0 mm -width- = approx. 5.0 mm

#### Bead section -d-

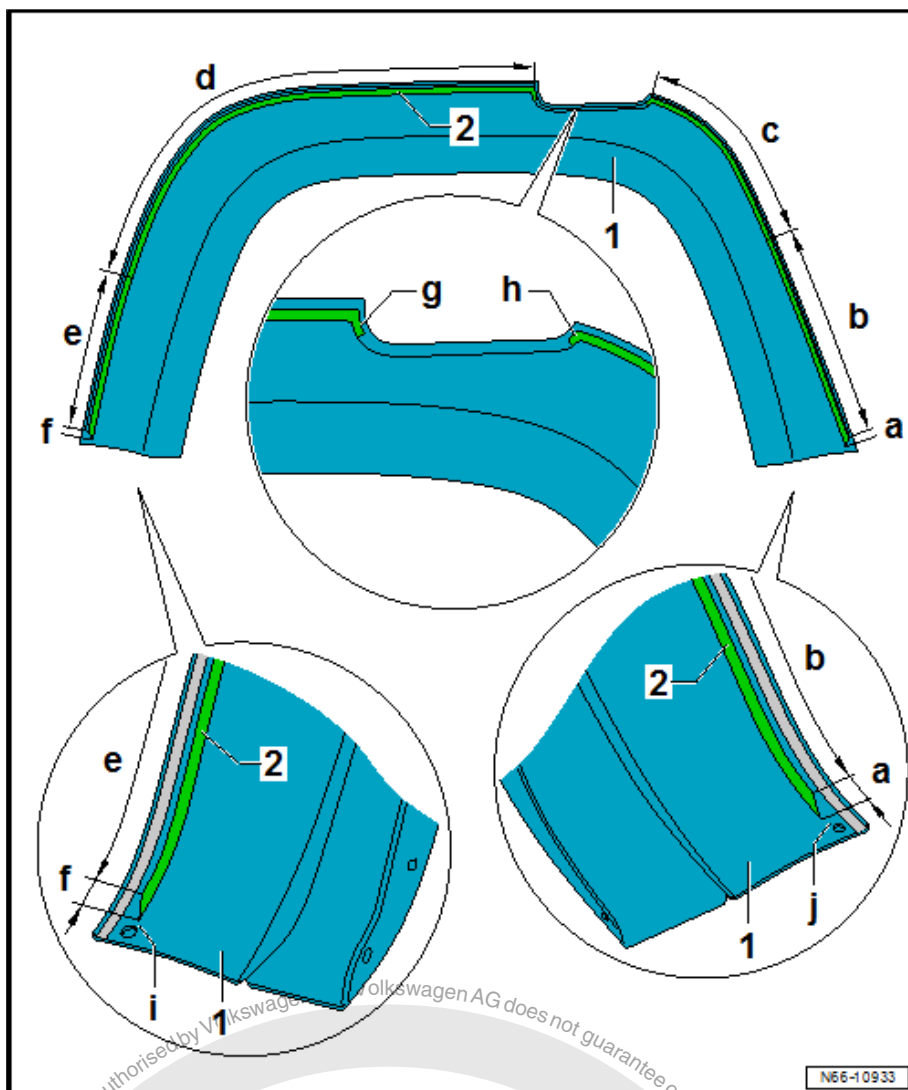
- -Length- = approx. 790 mm -height- = approx. 9.0 mm -width- = approx. 5.0 mm

#### Bead section -e-

- -Length- = approx. 340 mm -height- = approx. 12 mm -width- = approx. 8.0 mm

#### Bead section -f-

- -Length- = approx. 50 mm -height- = approx. 6.0 mm -width- = approx. 3.0 mm



#### Section -g-

- Start of application, approx. 20 mm downwards.

#### Section -h-

- End of application, approx. 30 mm parallel to edge, distance approx. 15 mm.

#### Section -i-

- Distance of PUR sealing material to hole, approx. 15 mm (adhesive must not enter hole)

#### Section -j-

- Distance of PUR sealing material to edge, approx. 15 mm (adhesive must not go over edge)

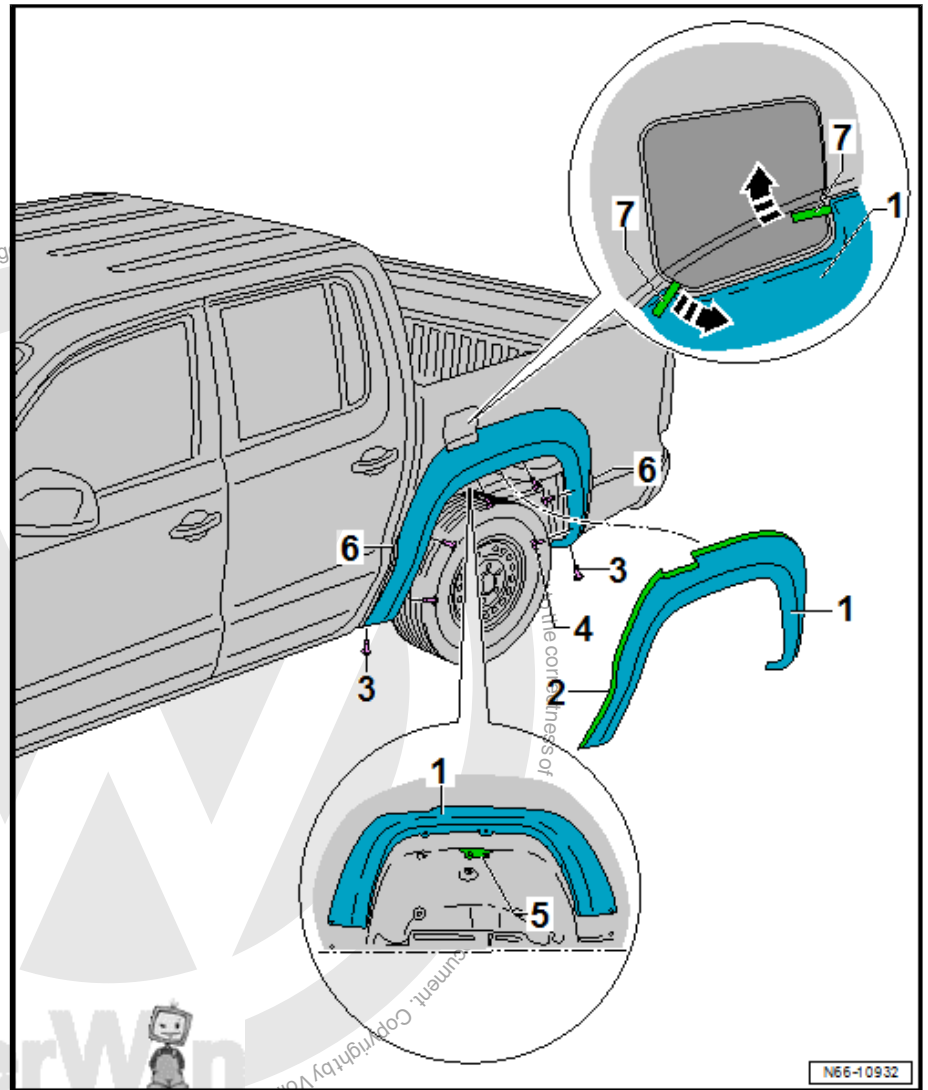
### Removing



#### Note

Wheel arch trim, left load bed, -1- cannot be removed without damaging it.

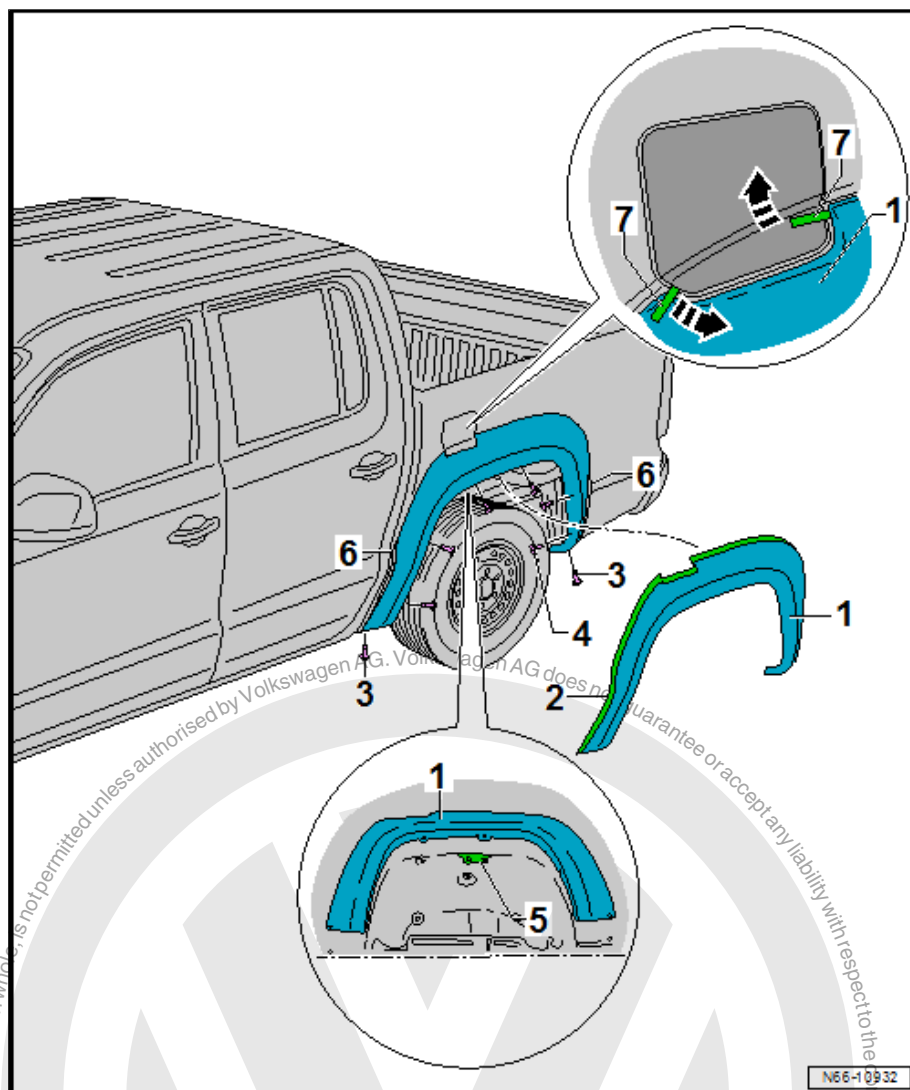




- Remove bolts -3- and -4-.
- Before removing wheel arch cover, left load bed -1-, heat bonding area -2- using hot air blower -V.A.G 1416- .
- Lift one corner of wheel arch trim, left load bed, -1- using removal wedge -3409- .
- Grip under wheel arch trim, left load bed, -1- and carefully but firmly pull off from component.

#### Installing





Installation instructions for wheel arch trims ⇒ [page 313](#) .

Preparing new add-on part for bonding ⇒ [page 314](#) .

Preparing body component for bonding ⇒ [page 314](#) .

Installation instructions ⇒ [page 315](#)

- Apply PUR adhesive beneath rib (primed area) ⇒ [page 321](#) .



#### Note

*It is advisable to position wheel arch trim, left load bed -1- with the help of a second mechanic.*

- Position wheel arch trim, left load bed, -1- using swage line -6- and check flushness.
- Bolt on wheel arch trim, left load bed, -1- using rear wheel housing liner bolts -4- ⇒ [page 304](#) .
- Pull backing -7- off double-sided adhesive tape -2-.
- Forcefully press on wheel arch trim -1- along the entire area of the double-sided adhesive tape -2-, starting from the centre under the tank flap aperture and moving first towards the front and then towards the rear.





- Tighten bolts -3-.

Observe minimum curing period ⇒ [page 316](#) .

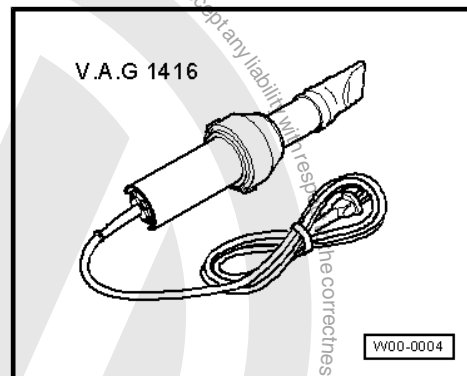
#### Specified torques

Component	Specified torque
Bolts -3-	2.0 Nm

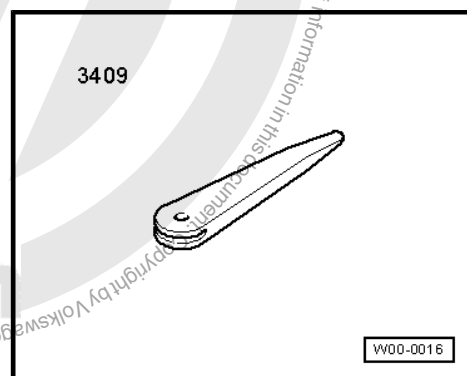
## 8.4 Removing and installing wheel arch trim - right load bed

### Special tools and workshop equipment required

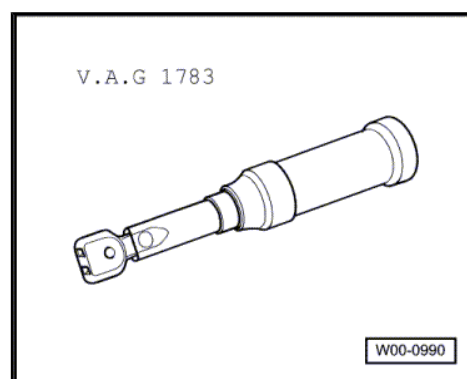
- ◆ Hot air blower -V.A.G 1416-



- ◆ Removal wedge -3409-



- ◆ Torque wrench -V.A.G 1783-



**Assembly overview - application of adhesive to wheel arch trim,  
right load bed**





# 1 - Wheel arch trim, right load bed

## 2 - PUR adhesive sealant

### Bead section -a-

- -Length- = approx. 50 mm -height- = approx. 6.0 mm -width- = approx. 3.0 mm

### Bead section -b-

- -Length- = approx. 300 mm -height- = approx. 12 mm -width- = approx. 7.0 mm

### Bead section -c-

- -Length- = approx. 1,350 mm -height- = approx. 9.0 mm -width- = approx. 5.0 mm

### Bead section -d-

- -Length- = approx. 400 mm -height- = approx. 12 mm -width- = approx. 6.0 mm

### Bead section -e-

- -Length- = approx. 40 mm -height- = approx. 6.0 mm -width- = approx. 3.0 mm

### Section -f-

- Distance of PUR sealing material to hole, approx. 15 mm (adhesive must not enter hole)

### Section -g-

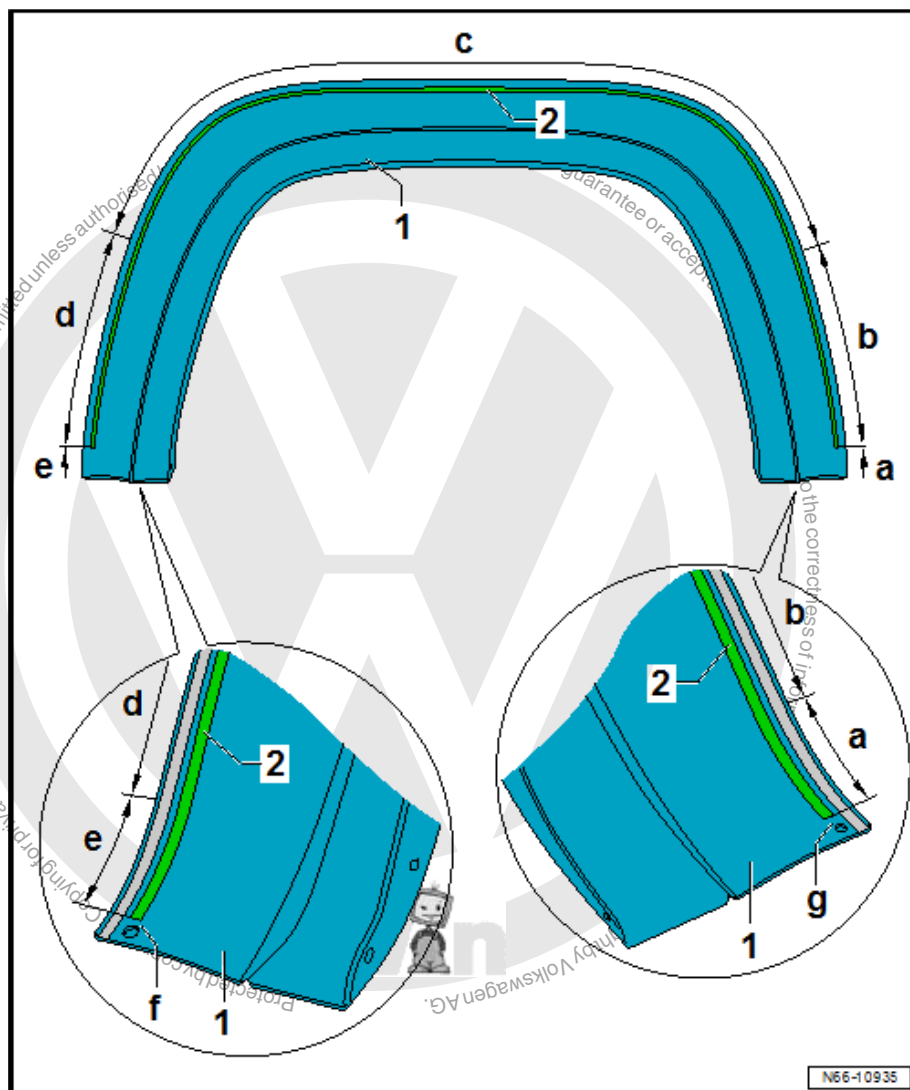
- Distance of PUR sealing material to edge, approx. 15 mm (adhesive must not go over edge)

## Removing

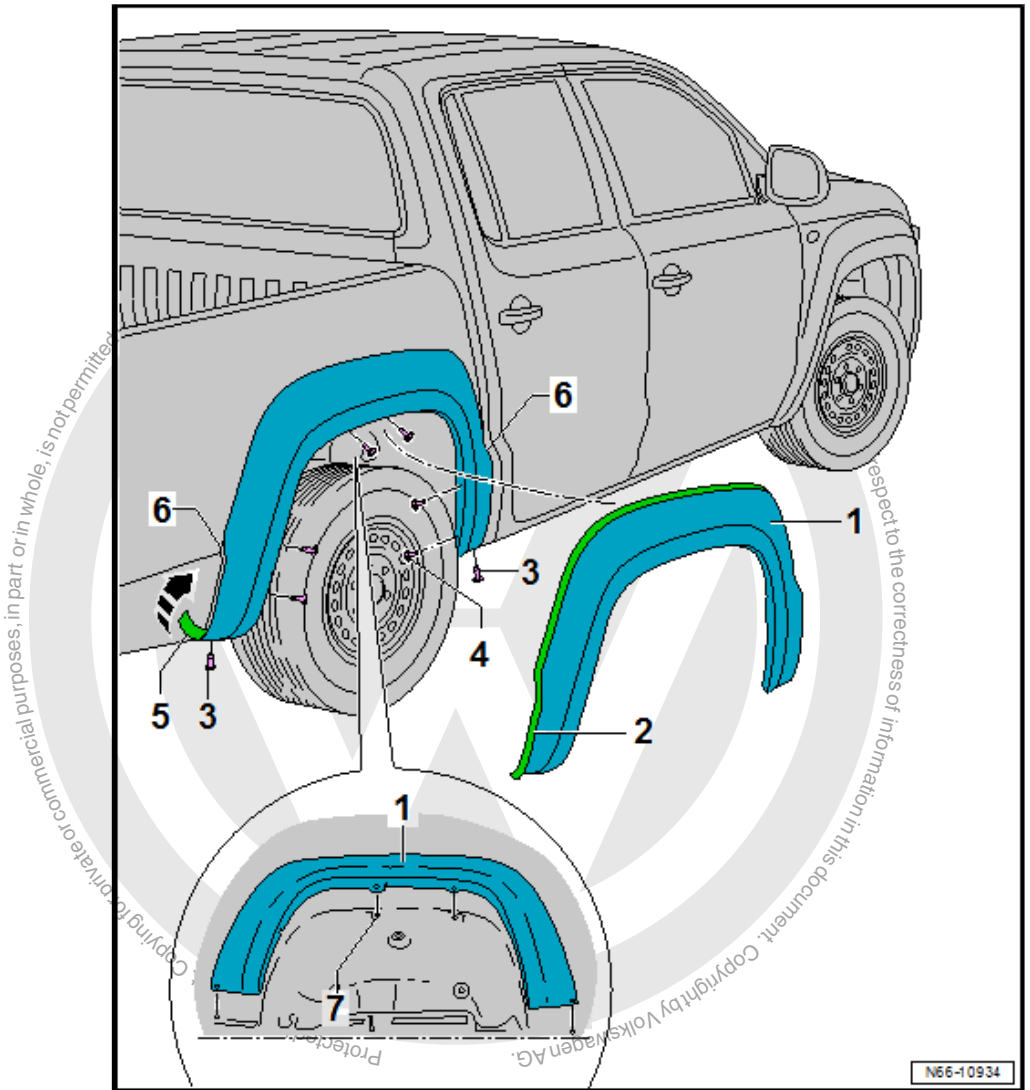


### Note

Wheel arch trim, right load bed, -1- cannot be removed without damaging it.



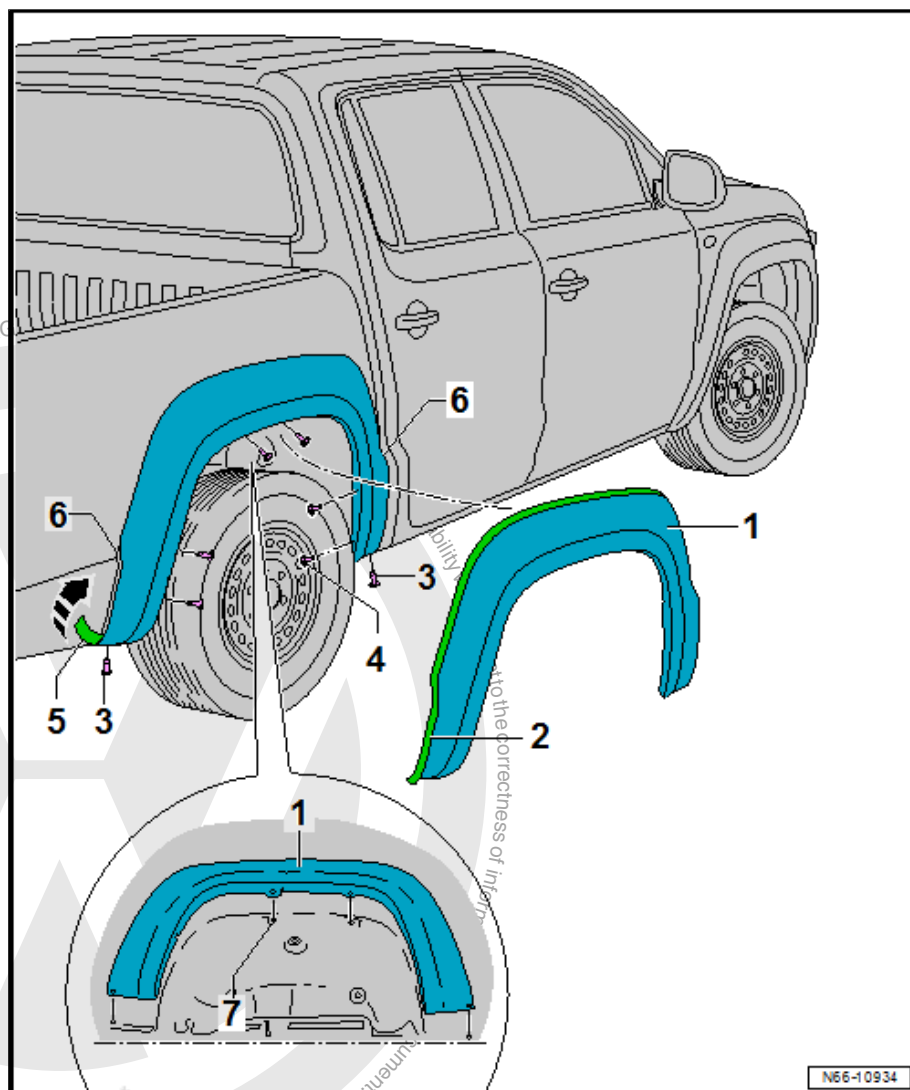




- Remove bolts -3- and -4-.
- Before removing wheel arch cover, right load bed -1-, heat bonding area -2- using hot air blower -V.A.G 1416- .
- Lift one corner of wheel arch trim, right load bed, -1- using removal wedge -3409- .
- Grip under wheel arch trim, right load bed, -1- and carefully but firmly pull off from component.

#### Installing





Installation instructions for wheel arch trims ⇒ [page 313](#) .

Preparing new add-on part for bonding ⇒ [page 314](#) .

Preparing body component for bonding ⇒ [page 314](#) .

Installation instructions ⇒ [page 315](#)

– Apply PUR adhesive beneath rib (primed area) ⇒ [page 325](#) .



#### Note

*It is advisable to position wheel arch trim, left load bed -1- with the help of a second mechanic.*

- Position and secure wheel arch trim, right load bed -1- using threaded connection -7-.
- Position wheel arch trim, left load bed, -1- using swage line -6- and check flushness.
- Bolt on wheel arch trim, right load bed, -1- using rear wheel housing liner bolts -4- ⇒ [page 304](#) .
- Pull backing -5- off double-sided adhesive tape -2-.





- Press on wheel arch trim -1- forcefully along entire area of double-sided adhesive tape -2-, starting from middle and working forwards and rearwards.
- Tighten bolts -3-.

Observe minimum curing period ⇒ [page 316](#) .

#### Specified torques

Component	Specified torque
Bolts -3-	2.0 Nm







## 9 Wheel arch trim (PR No. "0FX")

⇒ "9.1 Repair instructions", page 330

⇒ "9.2 Removing and installing wheel arch trim, wing",  
page 333

⇒ "9.3 Removing and installing wheel arch trim - left load bed",  
page 337

⇒ "9.4 Removing and installing wheel arch trim - right load bed",  
page 342

### 9.1 Repair instructions

#### 9.1.1 Safety requirements



##### Caution

*When removing extensions, use suitable gloves and protective eyewear.*

*Do not use cutting wire to remove extensions.*

*Extensions must cure at least 3 hours after being bonded before work on the vehicle is continued.*



##### Note

- ◆ *The following wheel arch trims have been developed to fulfil the technical requirements of the respective models. These extensions should always be replaced with the corresponding genuine parts.*
- ◆ *Without these extensions, the vehicle does not comply with traffic regulations.*

#### 9.1.2 Installation instructions for wheel arch trims

The wheel arch trim is factory-bonded with double-sided adhesive tape and 1-component PU adhesive.

The wheel arch trim is primed by the supplier and delivered with double-sided adhesive tape.

Ensure that backing of double-sided adhesive tape strips remains free of paint and paint mist when painting extensions.

Temperatures of the room, the work bay and the vehicle must be approximately the same (18 °C and max. 30 °C).

Remove existing adhesive tape residues with adhesive remains remover -VAS 6349- .

Always use a clean, lint-free cloth for cleaning.

Immediately before attaching add-on parts, clean bonding surfaces using adhesive remover and then carefully remove dirt, grease, wax and other impurities using plastic cleaner.

- Observe the appropriate safety precautions when cleaning.

Remove backing only immediately before installation.





Before washing and preserving the vehicle, ensure that the wheel arch trims have been bonded for at least 3.5 hours.

### 9.1.3 Preparing new add-on part for bonding



#### WARNING

*Before painting, use masking tape to precisely demarcate all priming and bonding surfaces.*

#### For 1-component glass adhesive

- The bonding surfaces of the add-on parts must be prepared with plastic primer.
- Apply 1-component glass adhesive at specified positions on add-on parts using cartridge gun -V.A.G 1628- .

### 9.1.4 Preparing body component for bonding

- Remove existing adhesive residue of double-sided adhesive tape using adhesive strip remover -VAS 6349- .
- Cut back adhesive points of PUR adhesive to about 2 - 3 mm without damaging paintwork.
- The cut surfaces do not require additional cleaning.



#### Note

*Remaining material serves as adhesion base for newly applied adhesive sealing compound.*

- Observe cleaning instructions for adjacent components  
⇒ [page 317](#) .
- New special add-on parts may be attached immediately at the prescribed positions with the adhesive points.

If the body part has been repaired or partially renewed, the area concerned must be cleaned and primed again after painting.

If a body part is fitted for the first time on a new vehicle or on newly painted surfaces, follow the procedure in ⇒ Workshop manual "Paint"; ⇒ Paintwork repairs; ⇒ Paint finish; ⇒ Mouldings and film .



#### WARNING

*Exception: if bonding is performed later than one day after cutting back adhesive bead, the remaining residual material must be activated with activator -D 181 801 A1- .*

*Apply activator evenly in one stroke using applicator.*

*Activator must not come in contact with paint, or the paintwork will be damaged.*

*Drying time approx. 10 minutes.*





## 9.1.5 Installation instructions for wheel arch trims

### Installation instructions



#### WARNING

*Add-on parts should be installed within 10 minutes, or bonding properties of adhesive will be impaired.*



#### Note

- ◆ *Gaps/shut lines should be kept to an absolute minimum.*
- ◆ *Use adhesive tape to secure add-on parts in position during minimum curing time.*
- ◆ *The surfaces to be primed must be free from impurities*
- ◆ *If no cleanser is specified in the respective repair procedure, use silicone remover.*
- Remove adhesive residue using adhesive remover.
- Clean application area for adhesive bead twice thoroughly using cleanser named in repair procedure and allow to dry.
- Now apply glass/paint primer evenly in one stroke using applicator.
- ◆ Drying time approx. 10 minutes
- Apply adhesive sealing material to primed areas of attachment parts.
- Max. of 6 minutes waiting time between application of adhesive and fitting of add-on parts.

### Materials



#### Note

*The part numbers of the materials can be found in the ⇒ electronic parts catalogue .*

- |                          |                |
|--------------------------|----------------|
| ◆ 1K glass adhesive      | 1) 2) 3) 4) 5) |
| ◆ Activator              | 1) 5)          |
| ◆ Glass and paint primer | 1) 5)          |
| ◆ Plastic primer         | 1) 5)          |
| ◆ Cleaning solution      | 1) 5)          |
| ◆ Primer applicator      | 1) 5)          |
| ◆ Adhesive remover       | 1) 5)          |
| ◆ Cutting cord           | 5)             |

1) Observe instructions for use on the information sheet provided by the manufacturer.





- 2) Minimum curing period ⇒ [page 254](#)
- 3) Use cartridge gun -V.A.G 1628- to apply 1-component glass adhesive.
- 4) Heat according to manufacturer's instructions, using cartridge heater -V.A.G 1939- .
- 5 The part numbers of the materials can be found in the ⇒ electronic parts catalogue (ETKA) .

### 9.1.6 Minimum curing period

The minimum curing time is the time from bonding the add-on parts until the vehicle may be used.

Wait 3.5 hours before continuing work when bonding is done with double-sided adhesive tape and 1-component glass adhesive.

During this time, the vehicle must stand on a level surface and the room and object temperatures must be at least 18 °C.

Do not apply any direct load to bonding surfaces for at least 24 hours after installation.



#### WARNING

*It is safe to use vehicle only after the curing period is completed.*

### 9.1.7 Touching up paint damage

Paint structure must be restored according to specifications in the ⇒ "Paint" workshop manual .

### 9.1.8 Cleaning off excess adhesive sealing material



#### Note

*Use adhesive remover as a cleaning solution. Observe the appropriate safety precautions when performing this work.*

- If necessary, lift off escaping adhesive with a piece of cardboard.
- Clean painted surface as well as possible using a dry cloth.
- Remove residue using adhesive remover.

### 9.1.9 Cleaning guidelines

- Immediately before installing special add-ones, clean bonding surface thoroughly with adhesive remover.
- Then use plastic cleaner to carefully remove dirt, grease, wax and other contaminants.
- Always use a clean, lint-free cloth for cleaning.

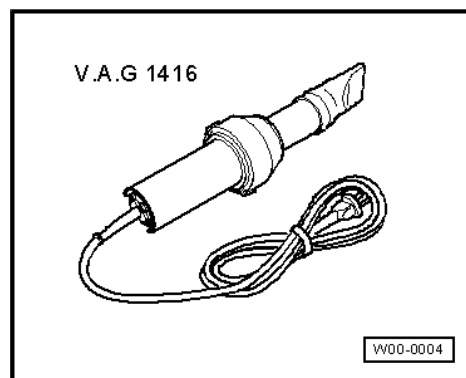
## 9.2 Removing and installing wheel arch trim, wing

Special tools and workshop equipment required

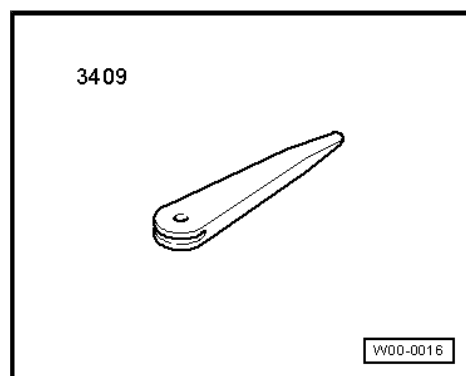




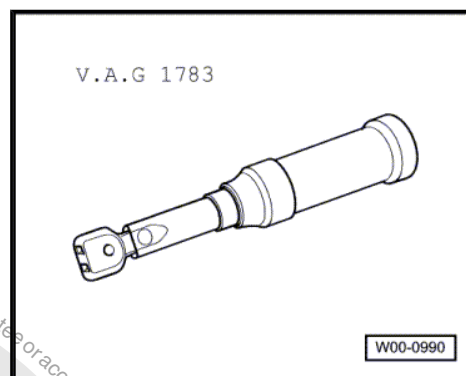
◆ Hot air blower -V.A.G 1416-



◆ Removal wedge -3409-



◆ Torque wrench -V.A.G 1783-



**Note**

*The removal and installation procedure is for the left side. The right side is similar.*

**Assembly overview - application of adhesive**





## 1 - Wheel arch trim, wing

## 2 - PUR adhesive sealant

### Bead section -a-

- -Length- = approx. 900 mm -height- = approx. 8 mm -width- = approx. 5 mm

### Bead section -b-

- -Length- = approx. 500 mm -height- = approx. 11 mm -width- = approx. 8 mm

### Bead section -c-

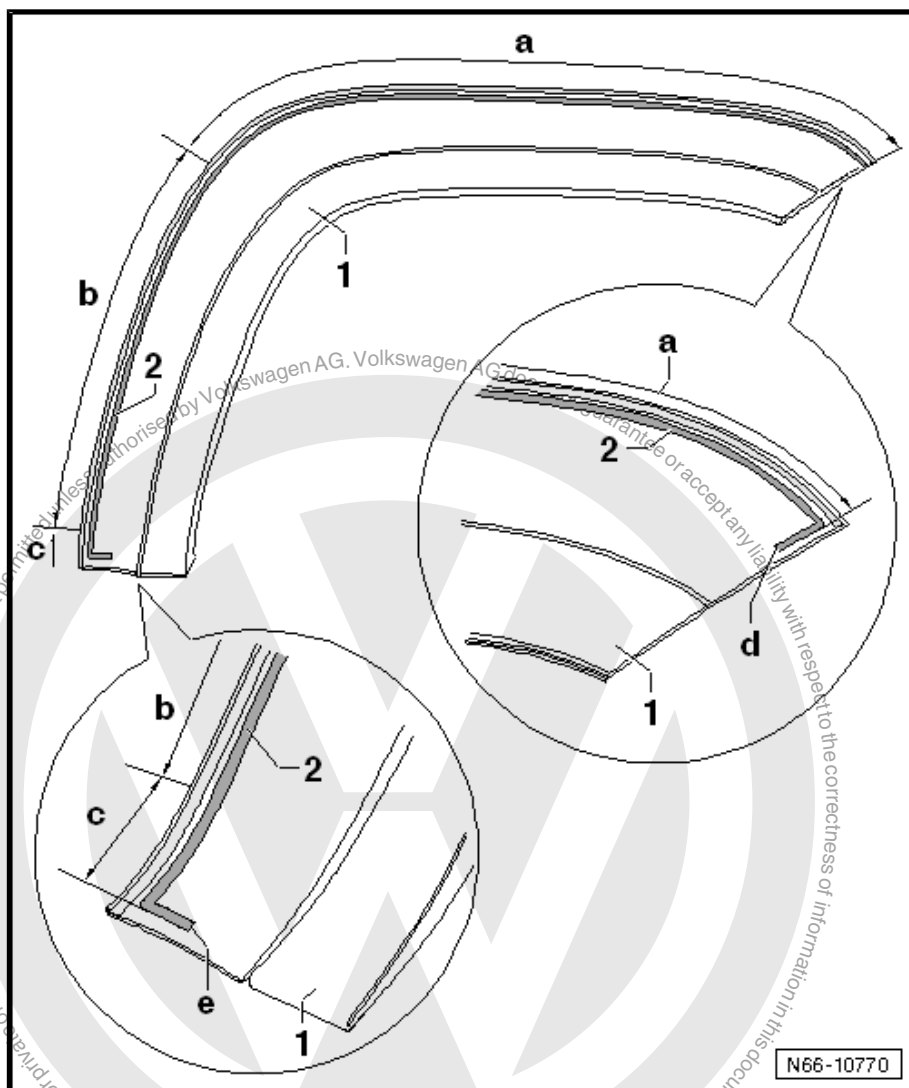
- -Length- = approx. 60 mm -height- = approx. 5 mm -width- = approx. 3 mm

### Section -d-

- Start of application, approx. 30 mm parallel to edge, distance approx. 15 mm

### Section -e-

- End of application, approx. 30 mm parallel to edge, distance approx. 15 mm.



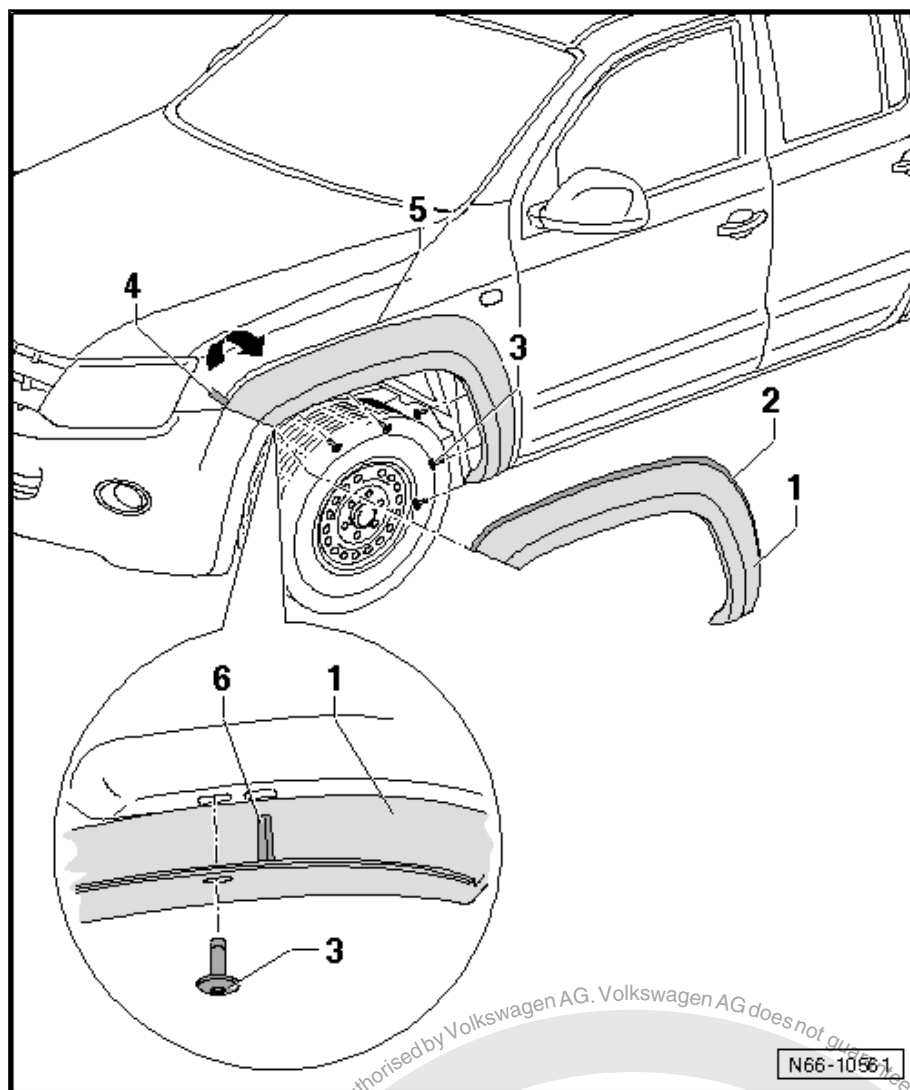
## Removing



### Note

- ◆ Wheel arch trim, wing, -1- cannot be removed without damaging it.
- ◆ Depending on wheel arch trim on front bumper cover, the locating pins must be noted. It is possible that the types of pins are mixed ⇒ [page 238](#).

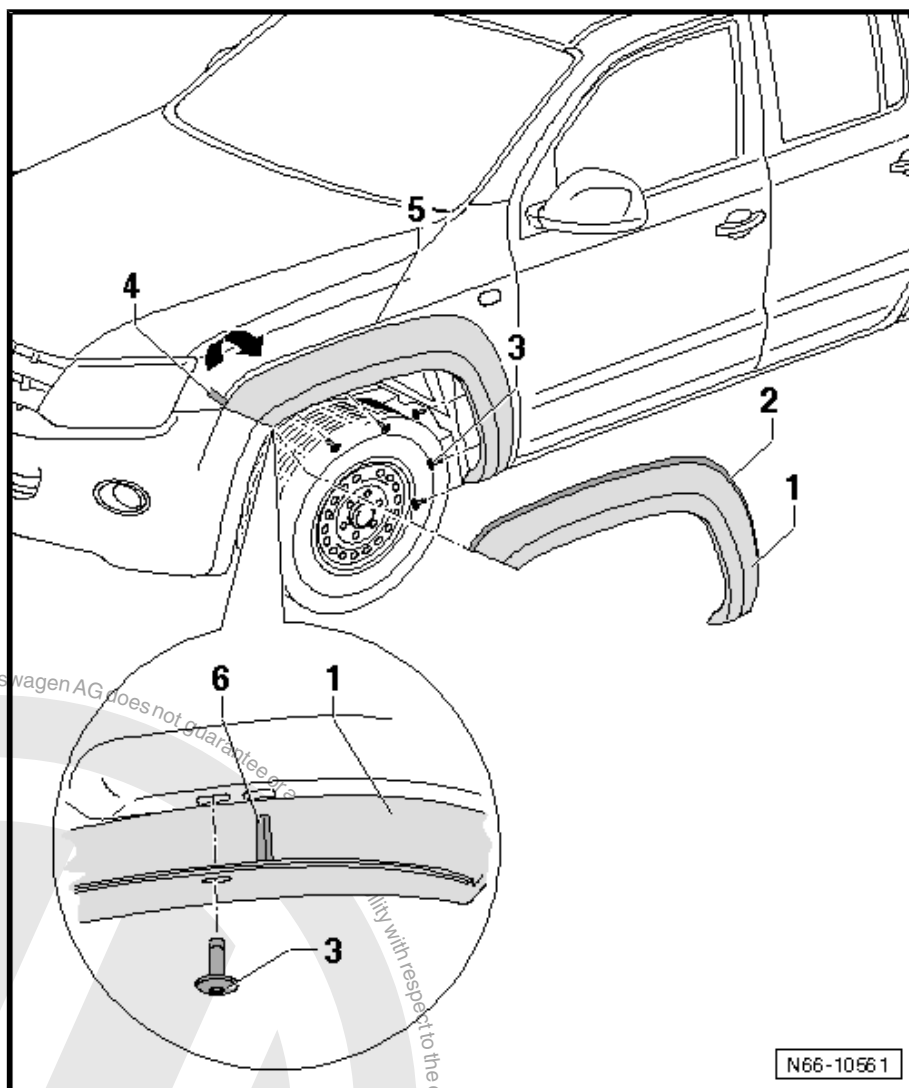




- Remove bolts -3-.
- Warm wheel arch trim, wing, -1- with hot air blower -V.A.G 1416- before removing.
- Raise wheel arch trim, wing, -1- at one corner using removal wedge -3409- .
- Grip under wheel arch trim, wing, -1- and carefully pull off from wing -5-.

#### Installing





Installation instructions for wheel arch trims ⇒ [page 330](#) .

Preparing new add-on part for bonding ⇒ [page 331](#) .

Preparing body component for bonding ⇒ [page 331](#) .

Installation instructions for wheel arch trims ⇒ [page 332](#) .

- Apply PUR adhesive sealing material under the two-sided adhesive tape -2- ⇒ [page 334](#) .
- Position wheel arch trim, wing, -1- with the help of the positioning tool -6- and the swage line -5- and that edges are flush and aligned.
- Bolt on wheel arch trim, wing, -1- using wheel housing liner bolts -3- ⇒ [page 304](#) .
- Pull backing -4- off double-sided adhesive tape -2-.
- Press on wheel arch trim -1- forcefully along entire area of double-sided adhesive tape -2-, from front to rear.

Observe minimum curing period ⇒ [page 316](#) .

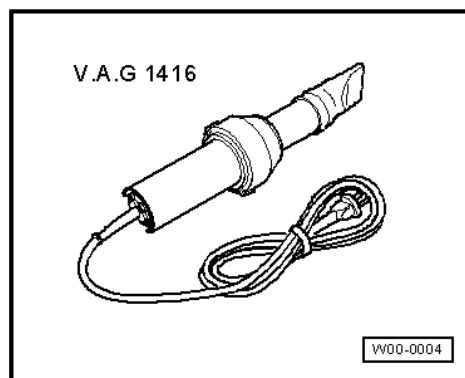
### 9.3 Removing and installing wheel arch trim - left load bed

Special tools and workshop equipment required

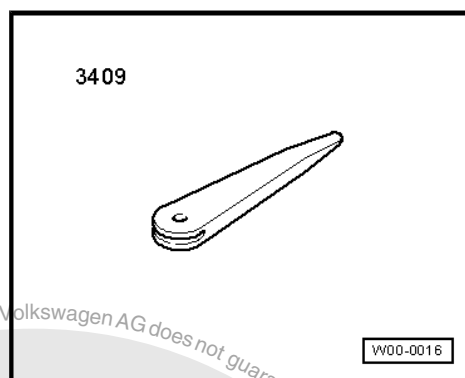




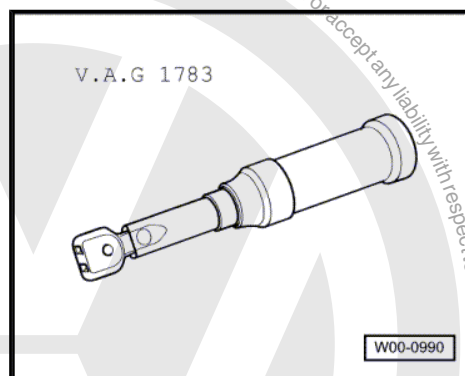
◆ Hot air blower -V.A.G 1416-



◆ Removal wedge -3409-



◆ Torque wrench -V.A.G 1783-



Assembly overview - application of adhesive





## 1 - Wheel arch trim, left load bed

### 2 - PUR adhesive sealant

#### Bead section -a-

- -Length- = approx. 60 mm -height- = approx. 5 mm -width- = approx. 3 mm

#### Bead section -b-

- -Length- = approx. 460 mm -height- = approx. 11 mm -width- = approx. 8 mm

#### Bead section -c-

- -Length- = approx. 270 mm -height- = approx. 7 mm -width- = approx. 5 mm

#### Bead section -d-

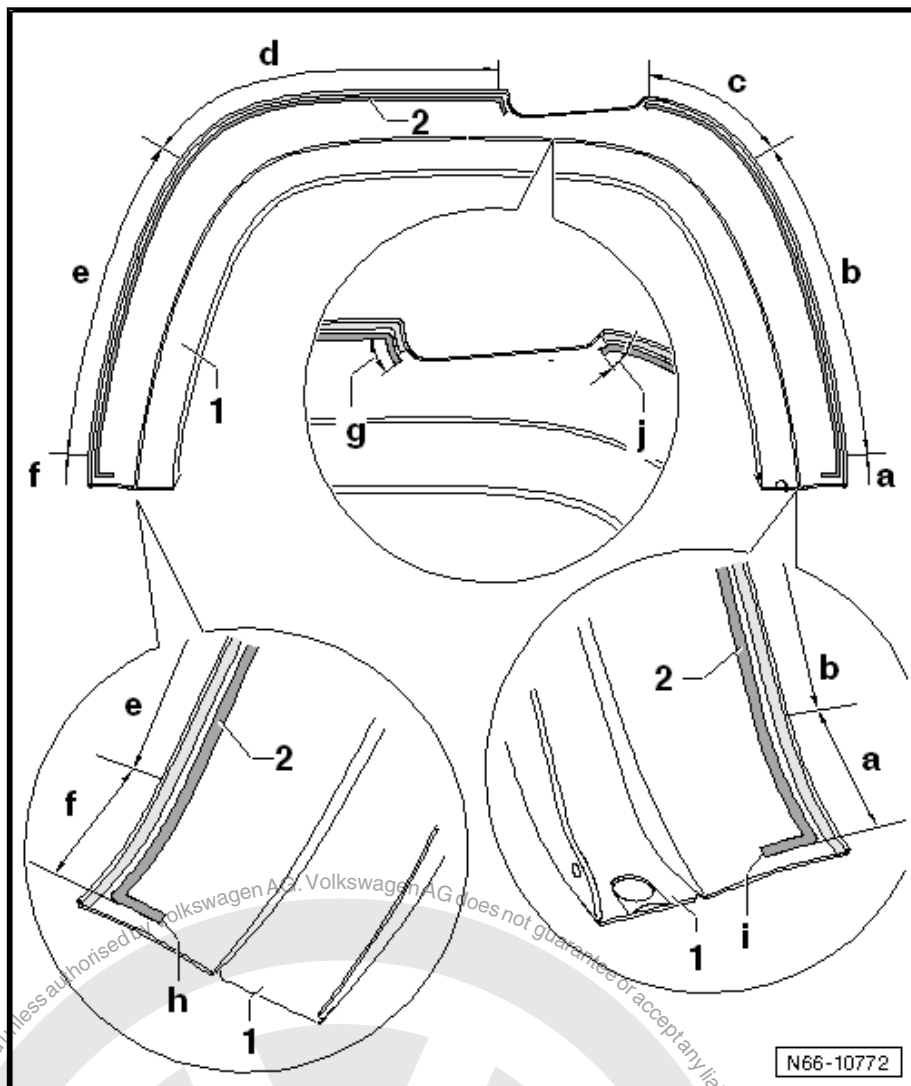
- -Length- = approx. 790 mm -height- = approx. 7 mm -width- = approx. 5 mm

#### Bead section -e-

- -Length- = approx. 340 mm -height- = approx. 11 mm -width- = approx. 8 mm

#### Bead section -f-

- -Length- = approx. 70 mm -height- = approx. 5 mm -width- = approx. 3 mm



#### Section -g-

- Start of application, approx. 20 mm downwards.

#### Section -h-

- End of application, approx. 30 mm parallel to edge, distance approx. 15 mm.

#### Section -i-

- Start of application, approx. 30 mm parallel to edge, distance approx. 15 mm

#### Section -j-

- End of application approx. 15 mm downwards

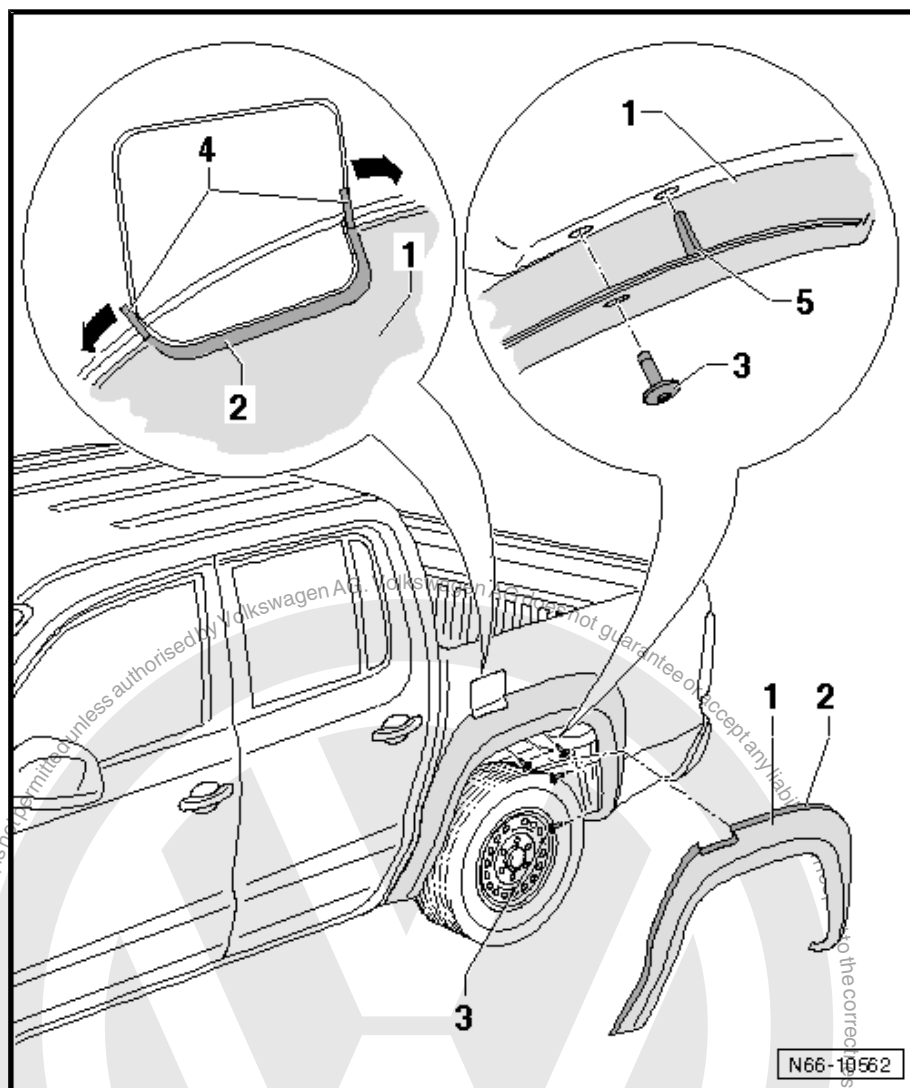
## Removing



### Note

Wheel arch trim, left load bed, -1- cannot be removed without damaging it.

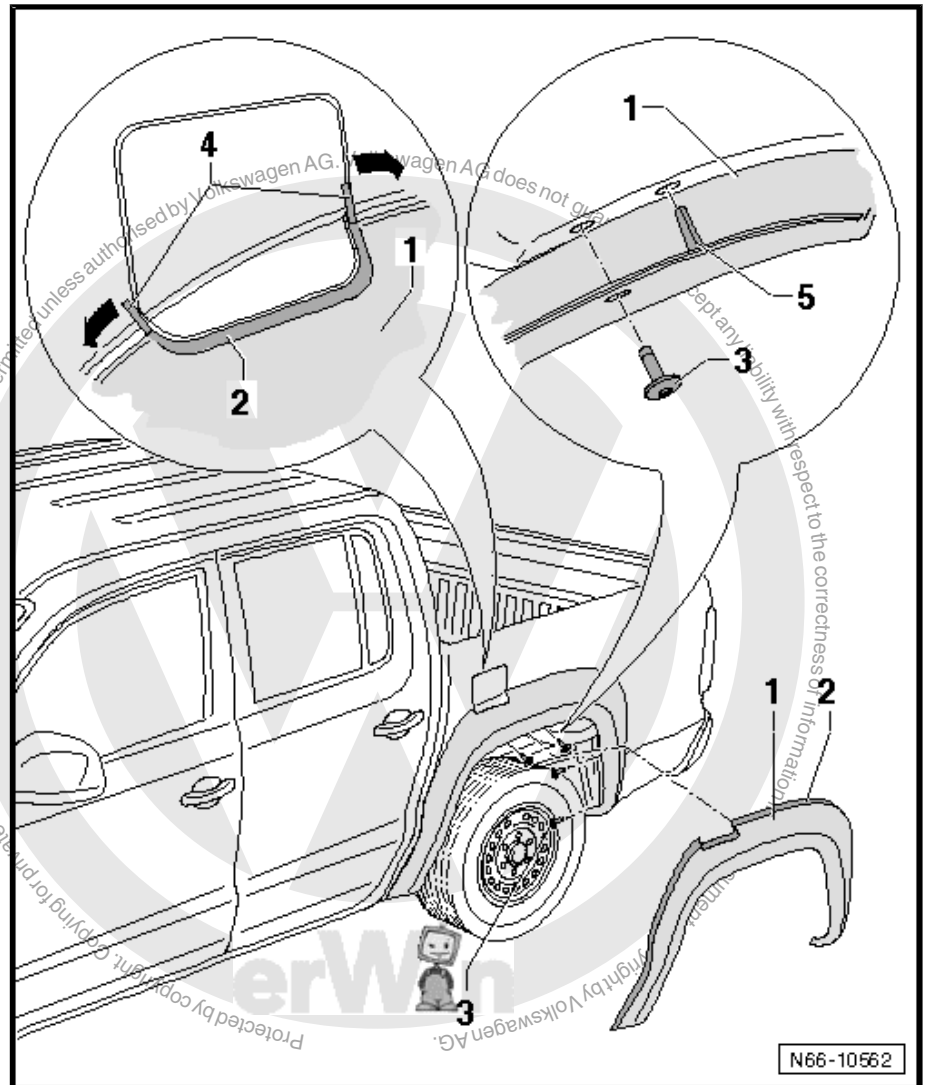




- Remove bolts -3-.
- Warm wheel arch trim, left load bed, -1- with hot air blower - V.A.G 1416- before removing.
- Lift one corner of wheel arch trim, left load bed, -1- using removal wedge -3409- .
- Grip under wheel arch trim, left load bed, -1- and carefully but firmly pull off from component.

#### Installing





Installation instructions for wheel arch trims ⇒ [page 330](#)

Preparing new add-on part for bonding ⇒ [page 331](#)

Preparing body component for bonding ⇒ [page 331](#)

Installation instructions for wheel arch trims ⇒ [page 332](#)

- Apply PUR adhesive sealing material under the two-sided adhesive tape -2- ⇒ [page 338](#) .
- Position wheel arch trim, left load bed, -1- with the help of the assembly tool -5- and the swage line.
- Check transition from wheel arch trim, left load bed, -1- to cargo box (swage line).
- Bolt on wheel arch trim, left load bed, -1- using rear wheel housing liner bolts -3- ⇒ [page 304](#) .
- Pull backing -4- off double-sided adhesive tape -2- starting from tank cut-out and working to left and right.
- Pull backing off double-sided adhesive tape under tank flap cut-out.
- Press wheel arch trim -1- on forcefully in complete area of double-sided adhesive tape -2-, starting from tank cut-out.

Observe minimum curing period ⇒ [page 316](#) .





## 9.4 Removing and installing wheel arch trim - right load bed

### Assembly overview - application of adhesive

1 - Wheel arch trim, right load bed

2 - PUR adhesive sealant

#### Bead section -a-

- -Length- = approx. 70 mm -height- = approx. 5 mm -width- = approx. 3 mm

#### Bead section -b-

- -Length- = approx. 300 mm -height- = approx. 11 mm -width- = approx. 7 mm

#### Bead section -c-

- -Length- = approx. 1,350 mm -height- = approx. 8 mm -width- = approx. 5 mm

#### Bead section -d-

- -Length- = approx. 400 mm -height- = approx. 11 mm -width- = approx. 6 mm

#### Bead section -e-

- -Length- = approx. 60 mm -height- = approx. 5 mm -width- = approx. 3 mm

#### Section -f-

- Start of application, 30 mm parallel to edge, distance approx. 15 mm.

#### Section -g-

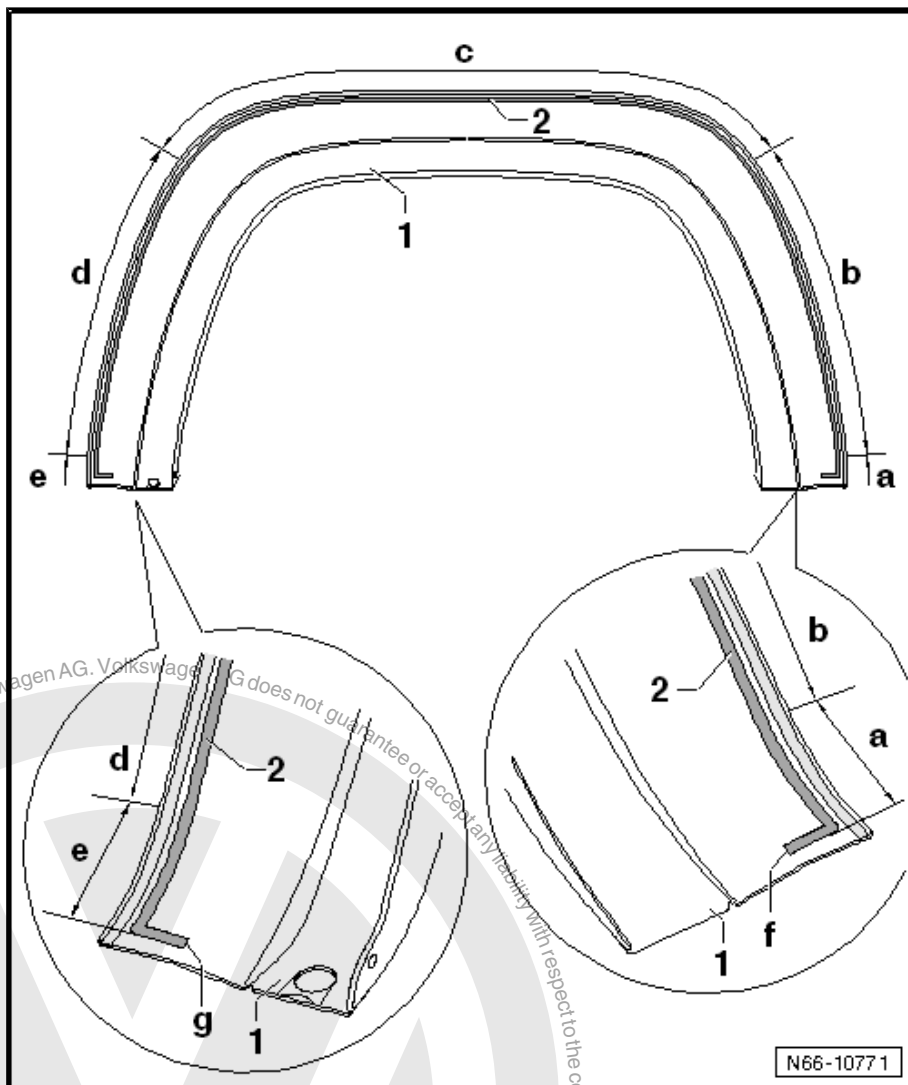
- End of application, approx. 30 mm parallel to edge, distance approx. 15 mm.

### Removing

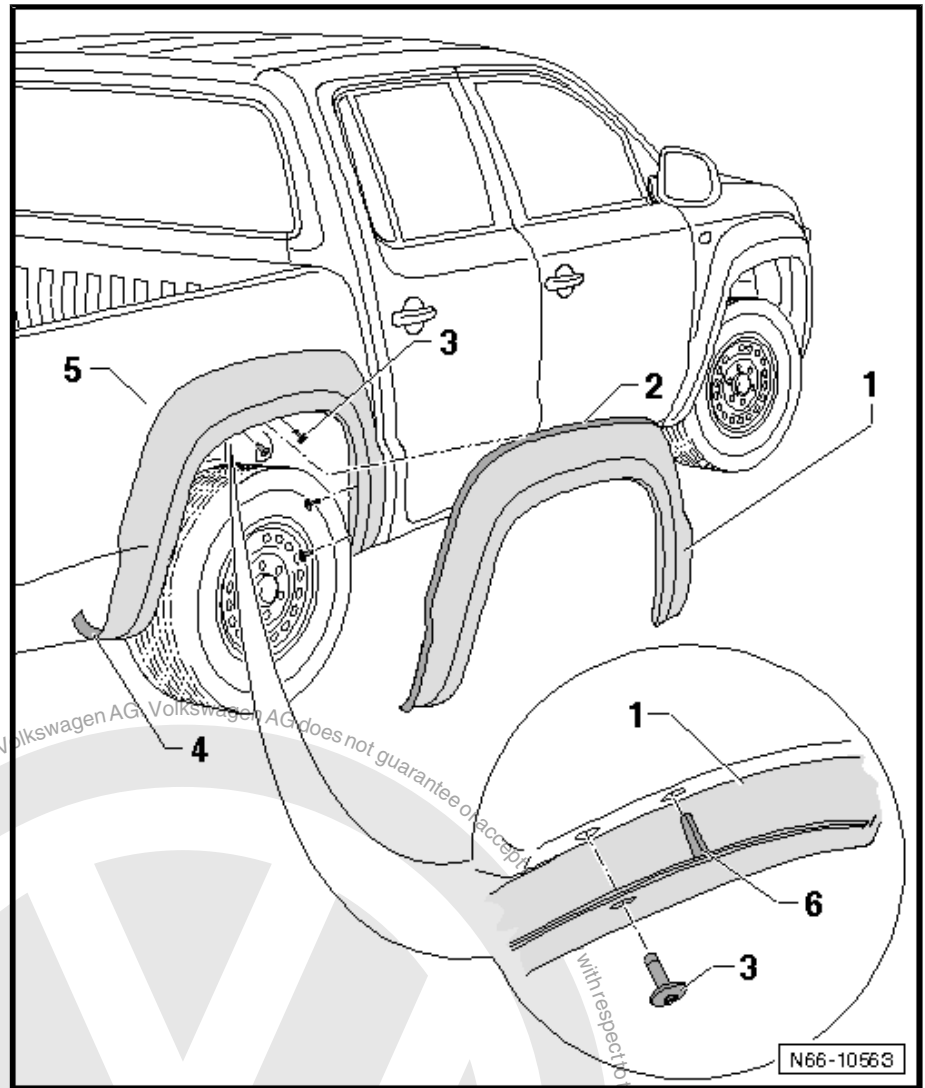


#### Note

Wheel arch trim, right load bed, -1- cannot be removed without damaging it.



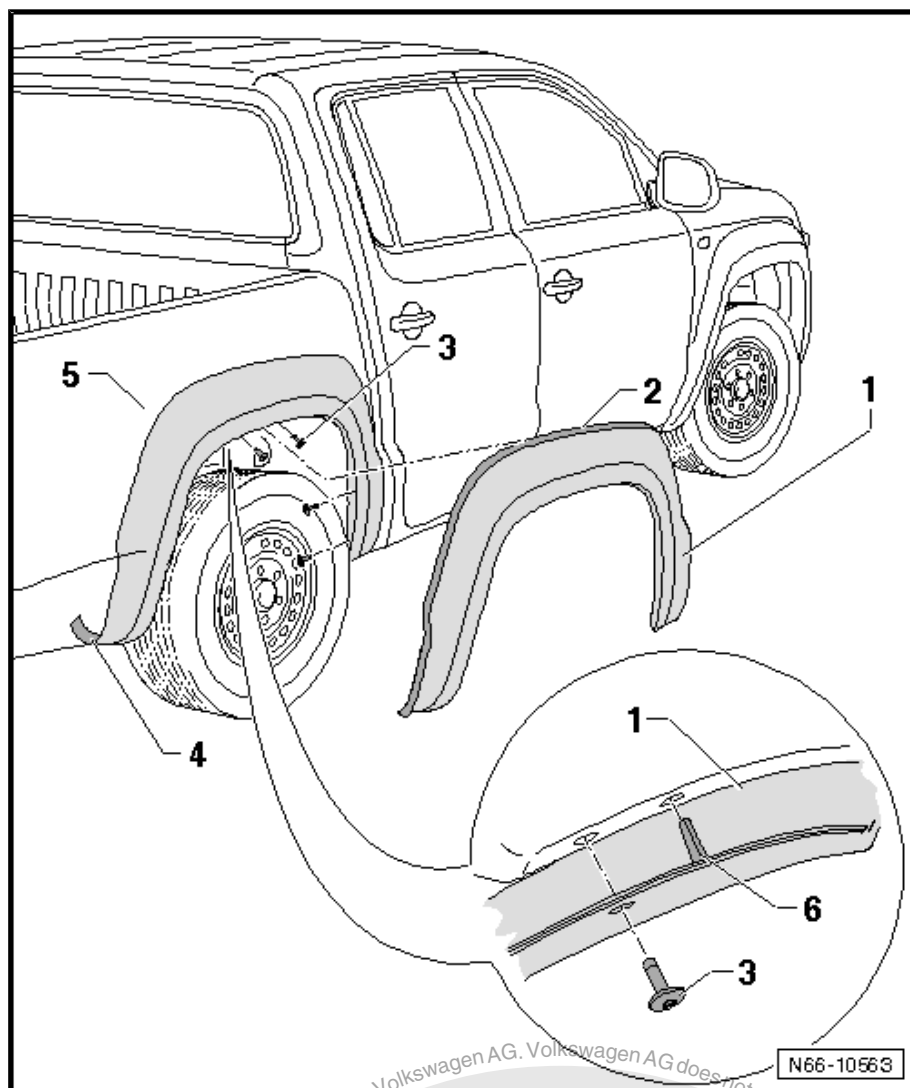




- Remove bolts -3-.
- Warm wheel arch trim, right load bed, -1- with hot air blower - V.A.G-1416- before removing.
- Lift one corner of wheel arch trim, right load bed, -1- using removal wedge -3409- .
- Grip under wheel arch trim, right load bed, -1- and carefully but firmly pull off from component.

#### Installing





Installation instructions for wheel arch trims ⇒ [page 330](#)

Preparing new add-on part for bonding ⇒ [page 331](#)

Preparing body component for bonding ⇒ [page 331](#)

Installation instructions for wheel arch trims ⇒ [page 332](#)

- Apply PUR adhesive sealing material under the two-sided adhesive tape -2- ⇒ [page 342](#) .
- Position wheel arch trim, right load bed, -1- with the help of the assembly tool -6- and the swage line.
- Check flushness with load bed -5- and swage line.
- Bolt on wheel arch trim, right load bed, -1- using rear wheel housing liner bolts -3- ⇒ [page 304](#) .
- Pull protective backing -4- off double-sided adhesive tape -2-.
- Press wheel arch trim -1- on forcefully in complete area of double-sided adhesive tape -2-, starting from middle and working to left and right.

Observe minimum curing period ⇒ [page 316](#) .





## 10 Protective film

⇒ ["10.1 Fitting notes", page 345](#)

⇒ ["10.2 Renewing window frame films", page 346](#)

⇒ ["10.3 Removing and installing inner film of front door", page 348](#)

⇒ ["10.4 Removing and installing inner door film of rear door", page 349](#)

⇒ ["10.5 Scuff protection film", page 350](#)

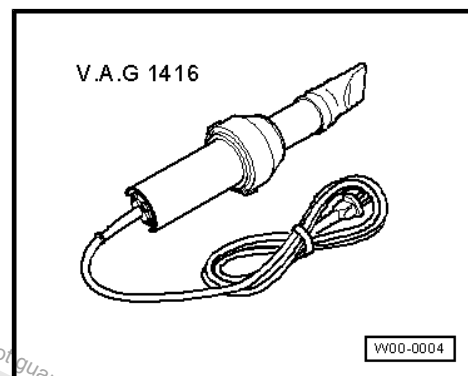
⇒ ["10.6 Protective film, B-pillar", page 351](#)

⇒ ["10.7 Anti-abrasion film, tailgate and D-pillar, load bed", page 353](#)

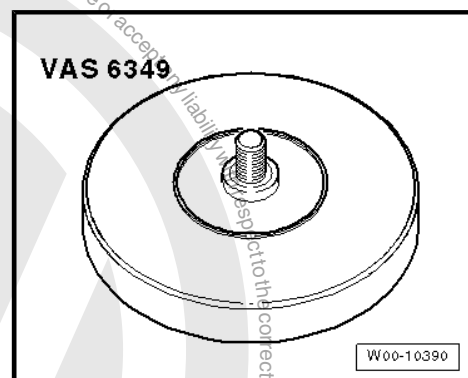
### 10.1 Fitting notes

#### Special tools and workshop equipment required

- ◆ Hot air blower -V.A.G 1416-



- ◆ Adhesive strip remover -VAS 6349-



Before removing the protective film, heat it with a hot air blower - V.A.G 1416- .

If the protective film is installed for the first time on a new vehicle or on newly painted surfaces, follow the procedure in ⇒ Workshop manual "Paint"; ⇒ Paintwork repairs; ⇒ Paint finish; ⇒ Mouldings and film .

If protective film is removed and re-fitted, use only adhesive remover to remove the adhesive residue.

Remove existing adhesive residue of adhesive tape using adhesive strip remover -VAS 6349- .

Ensure that the adhesive surfaces are free of dust and grease.

Glue on protective film immediately after cleaning.

Remove backing only immediately before installation.





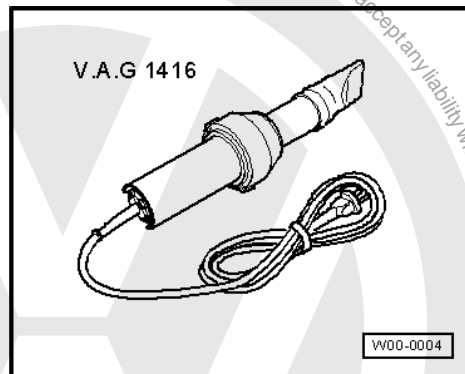
Working temperature is approx. 21 °C.

The protective film cannot be removed without damage.

## 10.2 Renewing window frame films

### Special tools and workshop equipment required

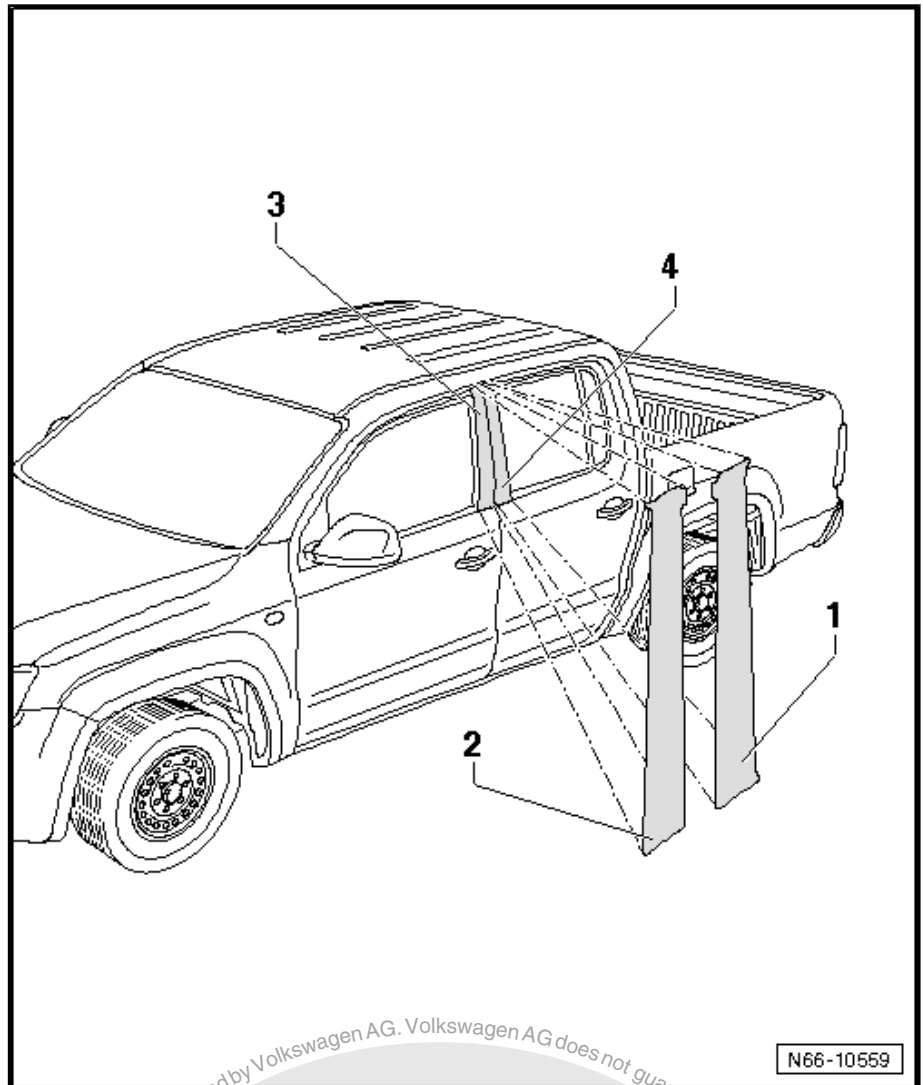
- ◆ Hot air blower -V.A.G 1416-



### Note

*Renewing window frame films is described only for the left side. The right side is similar.*





### Removing

- Heat window frame films -1- or -2- using hot air blower -V.A.G 1416- and pull off front door frame -3- or rear door frame -4-.

### Installing

- Follow installation instructions ⇒ [page 345](#).
- Thoroughly clean bonding surface immediately before sticking on.
- Pull off backing.
- Position window frame films -1- or -2- on front door frame -3- or rear door frame -4-.
- Smooth down window frame films using a plastic spatula wrapped in a soft paper towel.



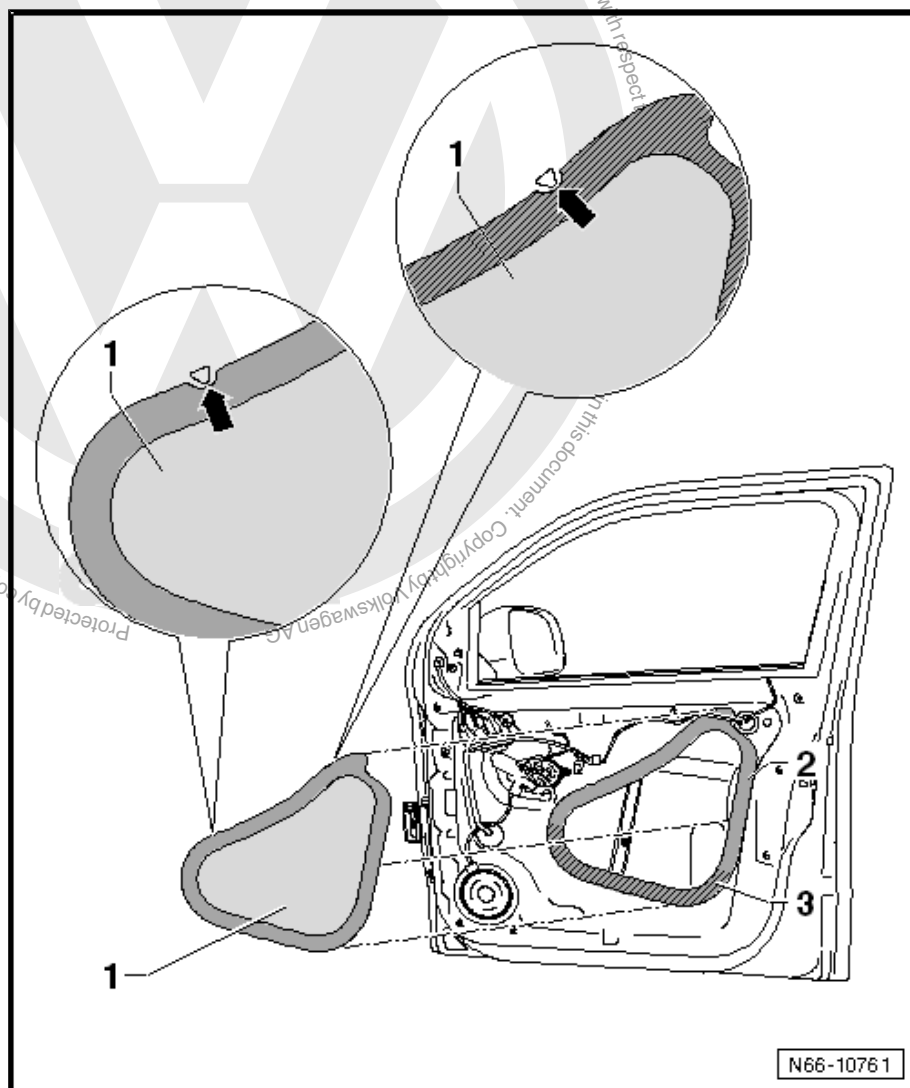


## 10.3 Removing and installing inner film of front door



### Note

- ◆ *Renewing inner door film is described only for the right side. The left side is analogous.*
- ◆ *If corrective work is necessary, completely remove inner door film -1- and adhesive residue.*



### Removing

- Pull inner door film -1- off door.

Use inner door film -1- once only.

### Installing

- Follow installation instructions ⇒ [page 345](#) .
- Position inner door film -1- at markings -arrows- and glue on the area between the two markings without subjecting the film to any stress.
- Pull inner door film -1- smoothly over the door aperture -2- and position so that it does not have any wrinkles.





- Smooth inner door film -1- outwards, ensuring that it is free of wrinkles.



**Note**

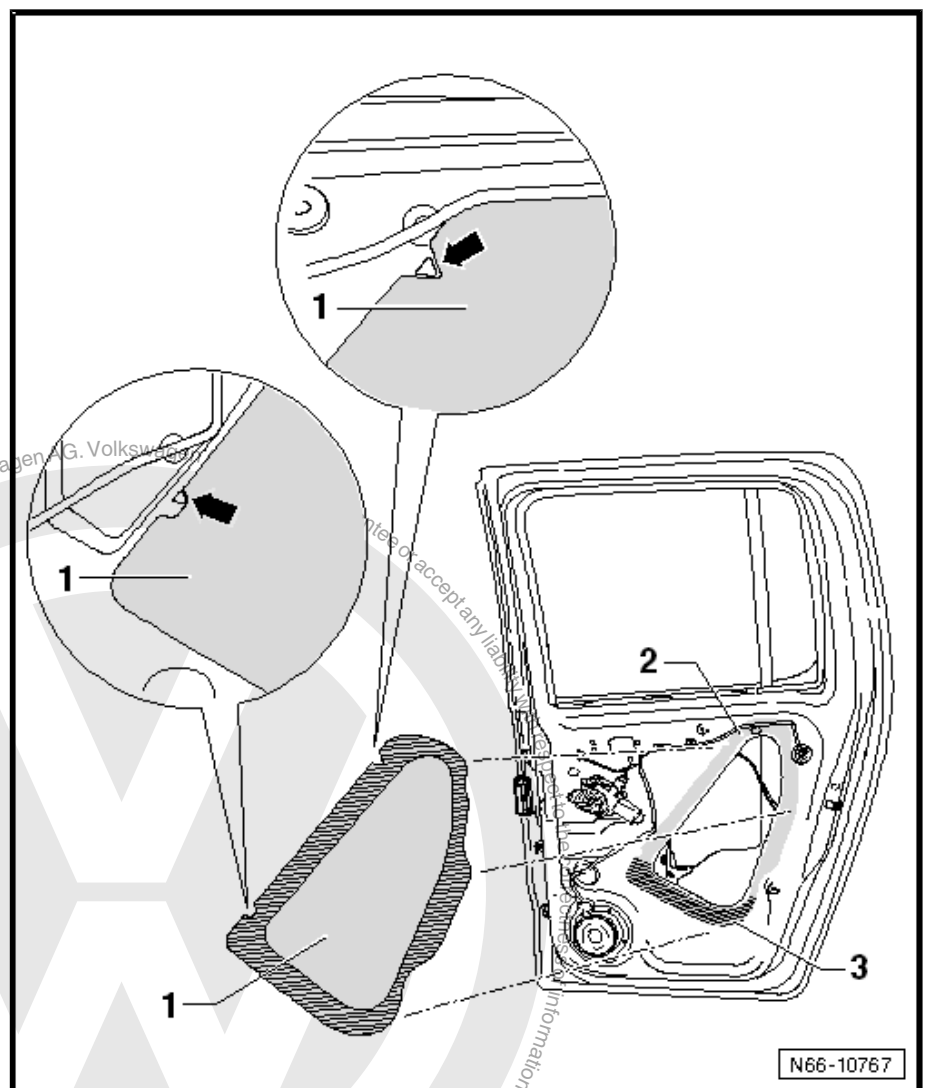
*Make sure there are no creases in marked area -3-*

## 10.4 Removing and installing inner door film of rear door



**Note**

- ◆ *Renewing inner door film is described only for the right side. The left side is analogous.*
- ◆ *If corrective work is necessary, completely remove inner door film -1- and adhesive residue.*



### Removing

- Pull inner door film -1- off door.
- Use inner door film -1- once only.







## Installing

- Follow installation instructions ⇒ [page 345](#) .
- Position inner door film -1- at markings -arrows- and glue on the area between the two markings without subjecting the film to any stress.
- Pull inner door film -1- smoothly over the door aperture -2- and position so that it does not have any wrinkles.
- Smooth inner door film -1- outwards, ensuring that it is free of wrinkles.



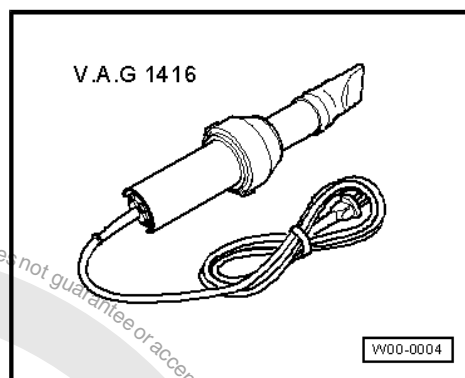
### Note

*Make sure there are no creases in marked area -3-*

## 10.5 Scuff protection film

### Special tools and workshop equipment required

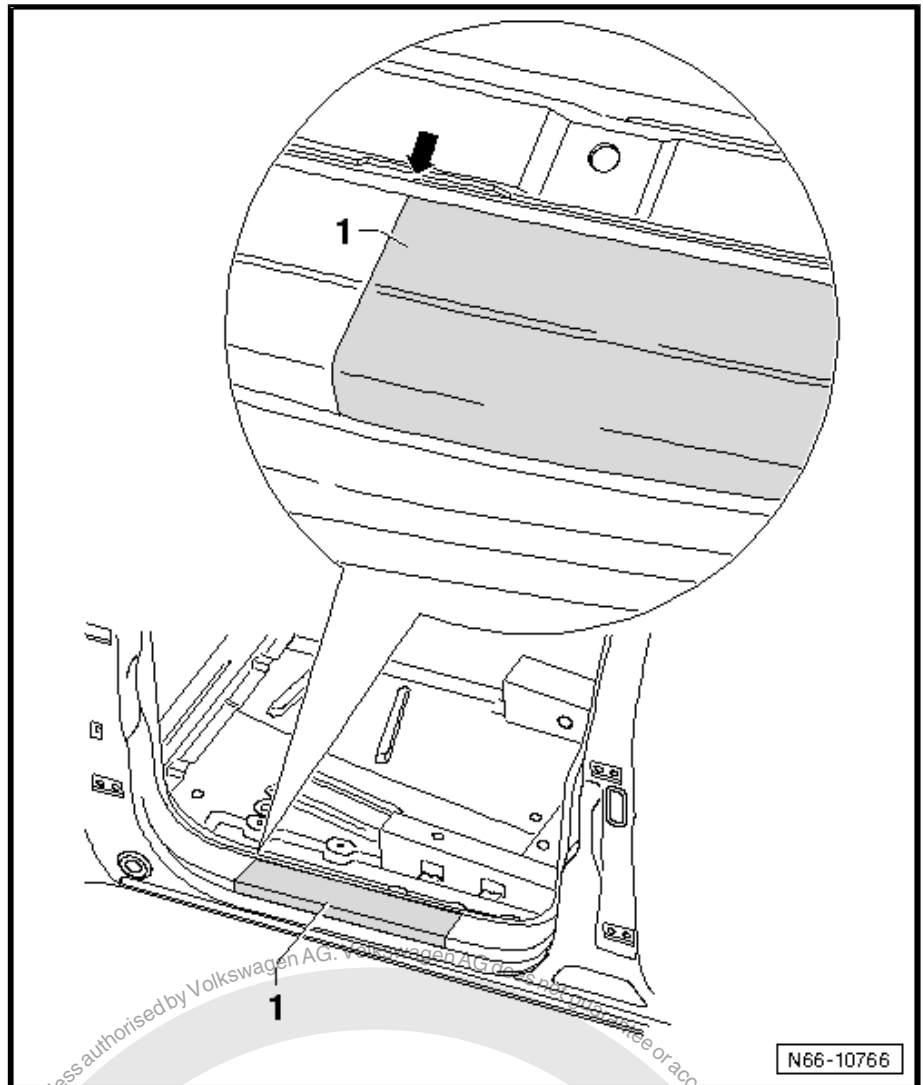
- ◆ Hot air blower -V.A.G 1416-



### Note

- ◆ *Renewing scuff protection films is described only for the left side. The right side is similar.*
- ◆ *The scuff protection film cannot be removed without damage.*





#### Removing

- Remove inner door seal in step area ⇒ [page 84](#) .
- Heat scuff protection film -1- using hot air blower -V.A.G 1416- and pull off from step area.

#### Installing

- Follow installation instructions ⇒ [page 345](#) .
- Pull backing off scuff protection film -1-.
- Position scuff protection film -1- on reference point -arrow- and press it smooth using a plastic blade wrapped in a soft paper towel.

Further installation is performed in the reverse order of removal.

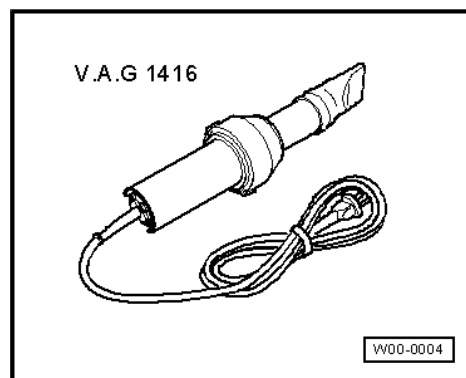
## 10.6 Protective film, B-pillar

Special tools and workshop equipment required





◆ Hot air blower -V.A.G 1416-



**Note**

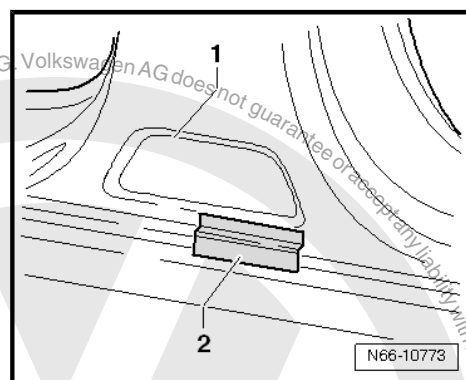
- ◆ *Renewing protective film for the B-pillar is described only for the left side. The right side is similar.*
- ◆ *The scuff protection film cannot be removed without damage.*

**Removing**

- Heat scuff protection film of B-pillar -1- using hot air blower - V.A.G 1416- and pull off from step area.

**Installing**

- Follow installation instructions ⇒ [page 345](#) .
- Pull backing off scuff protection film of B-pillar -1-.
- Position protective film for B-pillar -1- in the radius of side member -2- and smooth it out without folds.







## 10.7 Anti-abrasion film, tailgate and D-pillar, load bed

– Follow installation instructions [⇒ page 345](#) .

### 1 - Tailgate

### 2 - D-pillar, load bed

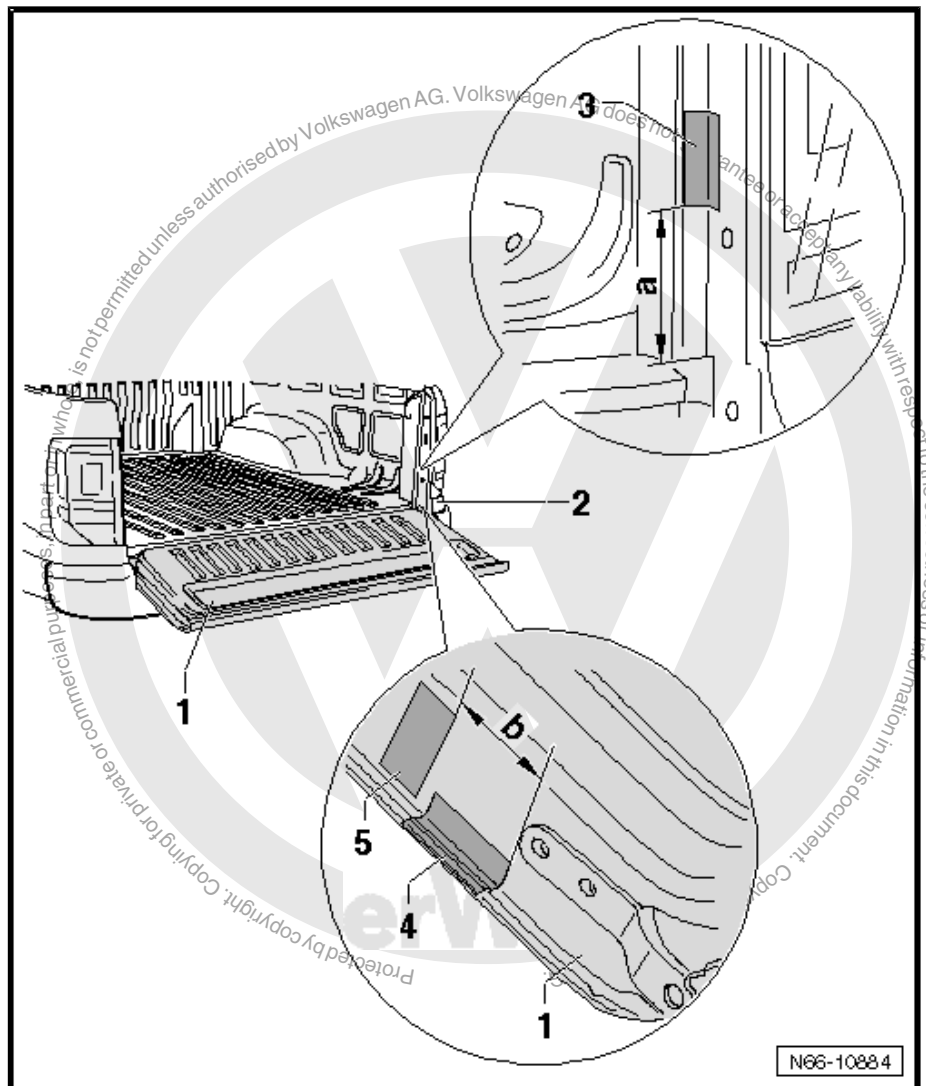
### 3 - Anti-abrasion film

- Dimension -a- =  $135 \pm 2$  mm from lower edge of D-pillar to anti-abrasion film.

### 4 - Anti-abrasion film

- Dimension -b- =  $88 \pm 2$  mm from lower edge of anti-abrasion film -5- to edge of anti-abrasion film -4-.

### 5 - Anti-abrasion film



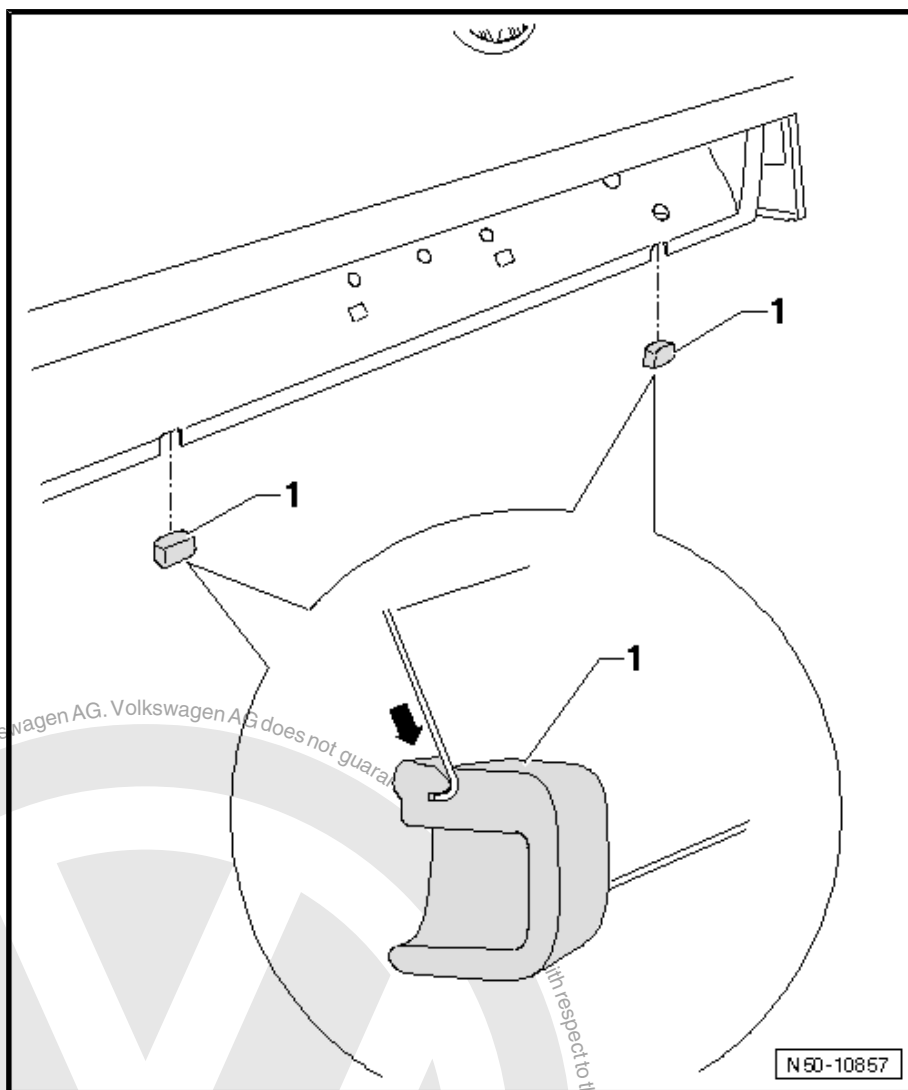




## 11 Buffer - rear cross panel

⇒ ["11.1 Assembly overview - buffer, rear cross panel",  
page 354](#)

### 11.1 Assembly overview - buffer, rear cross panel



- Press on buffer -1- from below.



#### Note

- ◆ Groove must make good contact with edge of the plate.
- ◆ During mounting, pull rubber lip -arrow- back with your fingers.





## 12 Towing bracket

⇒ **"12.1 Assembly overview - towing bracket with ball head", page 355**



### Note

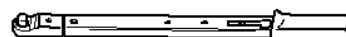
- ◆ *The specified torques refer only to factory-installed towing brackets for up to 3.2 tonnes towing capacity.*
- ◆ *Request torque specifications for other towing brackets from the manufacturers.*
- ◆ *If the rear bumper carrier has been modified, it may be necessary to perform additional work on the rear cross panel.*
- ◆ *Paint structure must be restored according to specifications in the ⇒ "Paint" workshop manual .*
- ◆ *However, it must be noted that installing a new rear bumper carrier does not automatically increase the permitted towing capacity.*
- ◆ *Information on electrics can be found under ⇒ Towing mode current flow diagram workshop manual .*
- ◆ *There is no engine-stop function when the towing bracket is in use.*
- ◆ *The towing bracket cannot be removed.*

### 12.1 Assembly overview - towing bracket with ball head

#### Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1332-

V.A.G 1332



W00-0428





## 1 - Towing bracket

- ☐ Towing bracket for 3.2 tonne towing capacity

### Installation and bolting sequence:

- Tighten bolts -4- (qty. 4) to pre-tensioning torque of 5 Nm.
- Tighten bolts -3- to specified torque  
⇒ [Item 3 \(page 356\)](#).
- Tighten bolts -4- (qty. 4) to specified torque  
⇒ [Item 4 \(page 356\)](#).

## 2 - Bracket for electric socket

- ☐ With captive nuts (if present)

## 3 - Bolt

- ☐ Qty. 2
- ☐ Specified torque: 150 Nm + 120°



### WARNING

*Bolts must always be replaced by new ones after being removed.*

## 4 - Bolt

- ☐ Qty. 2 on each side
- ☐ Specified torque: 100 Nm + 180°



### WARNING

*Bolts must always be replaced by new ones after being removed.*

## 5 - Seal

- ☐ For electric socket

## 6 - Electric socket

## 7 - Bolt

- ☐ Qty. 3
- ☐ For securing electric socket -6-

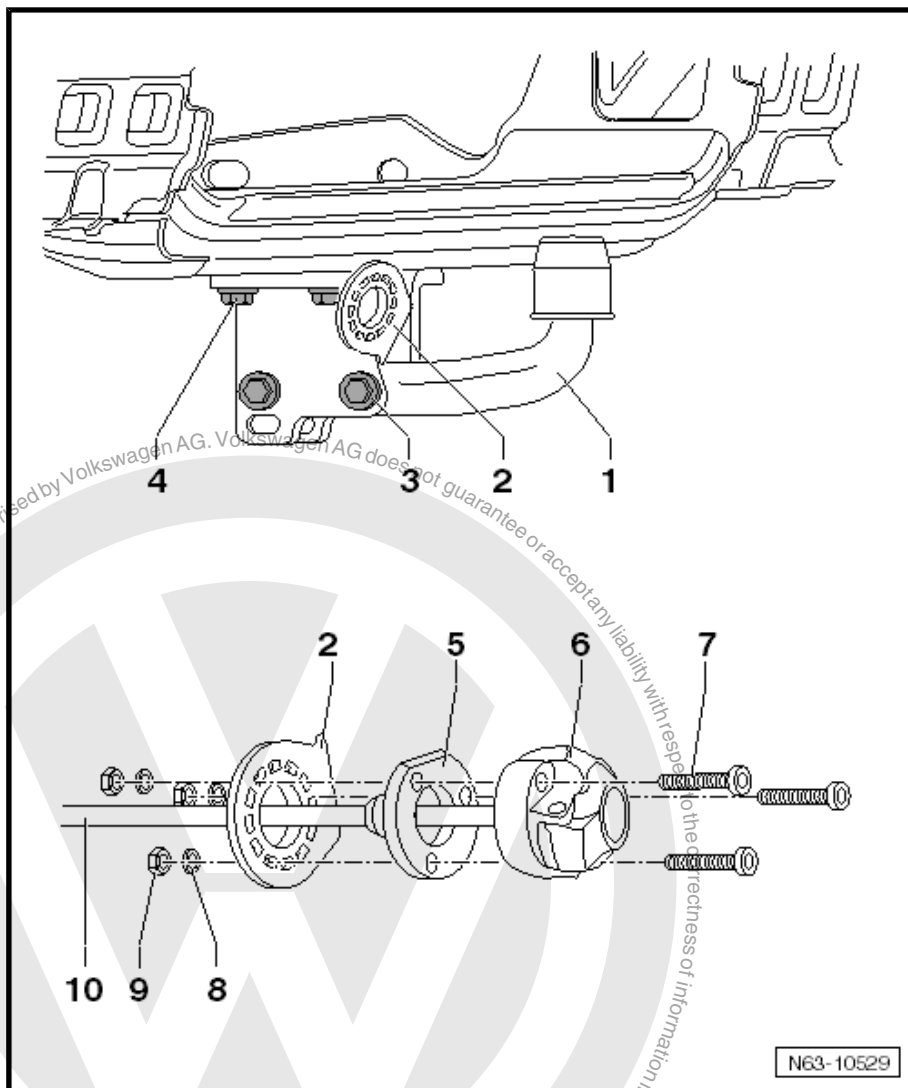
## 8 - Washer

- ☐ Qty. 3 (if present)

## 9 - Hexagon nut

- ☐ Qty. 3 (if present)

## 10 - Wiring harness







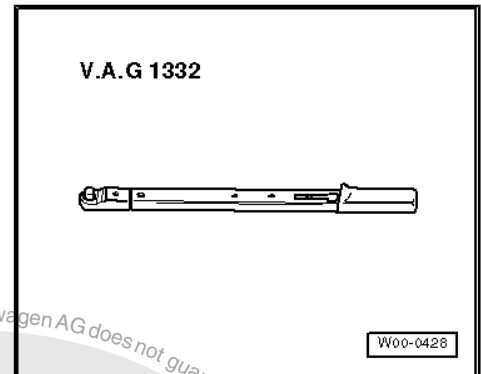
## 13 Spare wheel winch

⇒ "13.1 Assembly overview - spare wheel winch", page 357

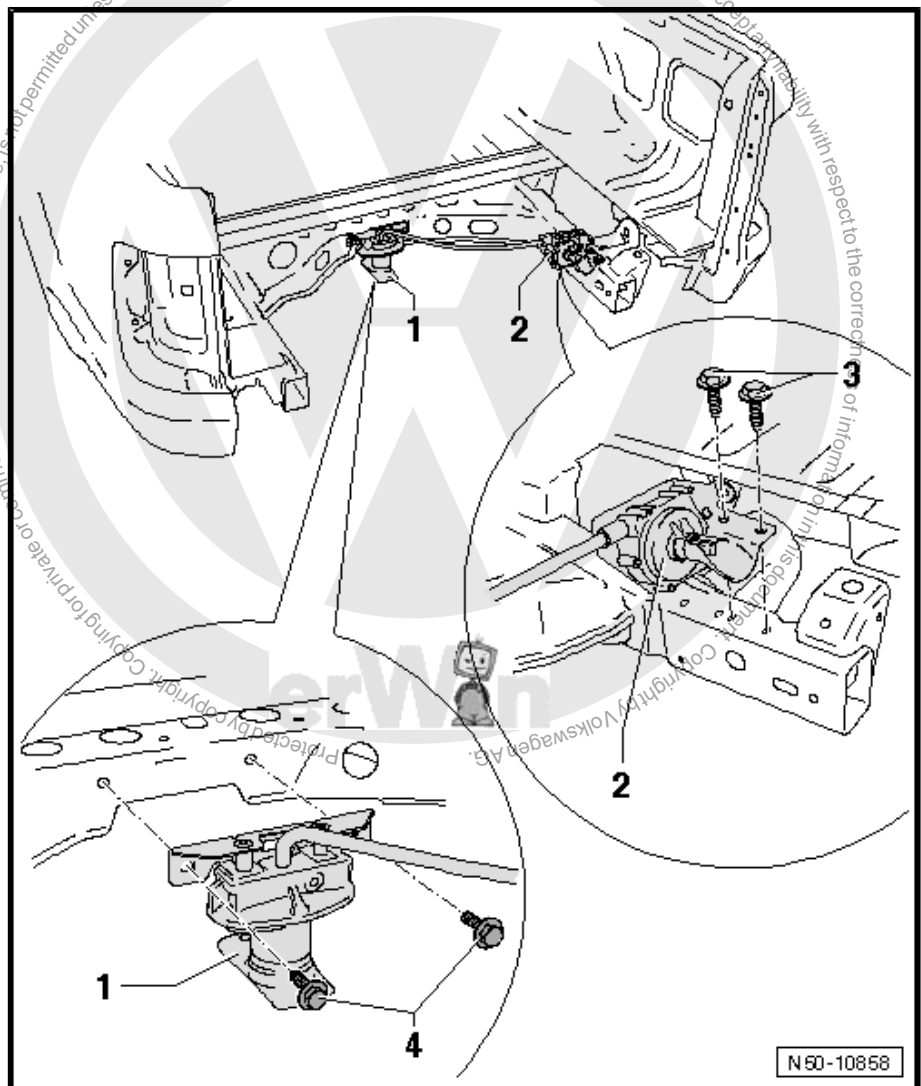
### 13.1 Assembly overview - spare wheel winch

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1332-



- 1 - Spare wheel winch
  - ☐ On rear cross member
- 2 - Spare wheel winch
  - ☐ On ladder frame
- 3 - Bolt
  - ☐ Qty. 2
  - ☐ Specified torque: 55 Nm
- 4 - Bolt
  - ☐ Qty. 2
  - ☐ Specified torque: 55 Nm











## 14 Mudflaps

⇒ ["14.1 Assembly overview - front mudflap, without wheel arch trim", page 359](#)

⇒ ["14.2 Assembly overview - front mudflap, with wheel arch trim", page 360](#)

⇒ ["14.3 Assembly overview - rear mudflap, without wheel arch trim", page 361](#)

⇒ ["14.4 Assembly overview - rear mudflap, with wheel arch trim", page 362](#)

⇒ ["14.5 Assembly overview - rear mudflap bracket", page 363](#)

⇒ ["14.6 Removing and installing front mud flaps, without wheel arch trim", page 363](#)

⇒ ["14.7 Removing and installing front mud flaps, with wheel arch trim", page 365](#)

⇒ ["14.8 Removing and installing rear mud flaps, without wheel arch trim", page 366](#)

⇒ ["14.9 Removing and installing rear mud flaps, with wheel arch trim", page 368](#)

### 14.1 Assembly overview - front mudflap, without wheel arch trim

#### Note

- ◆ Only the left side is shown. The right side is analogous.
- ◆ Minor differences to the description may be encountered, depending on vehicle model.

#### 1 - Front wheel housing liner

- ☐ Removing and installing  
⇒ [page 304](#)

#### 2 - Expanding nut

- ☐ Qty. 1

#### 3 - Front mudflap

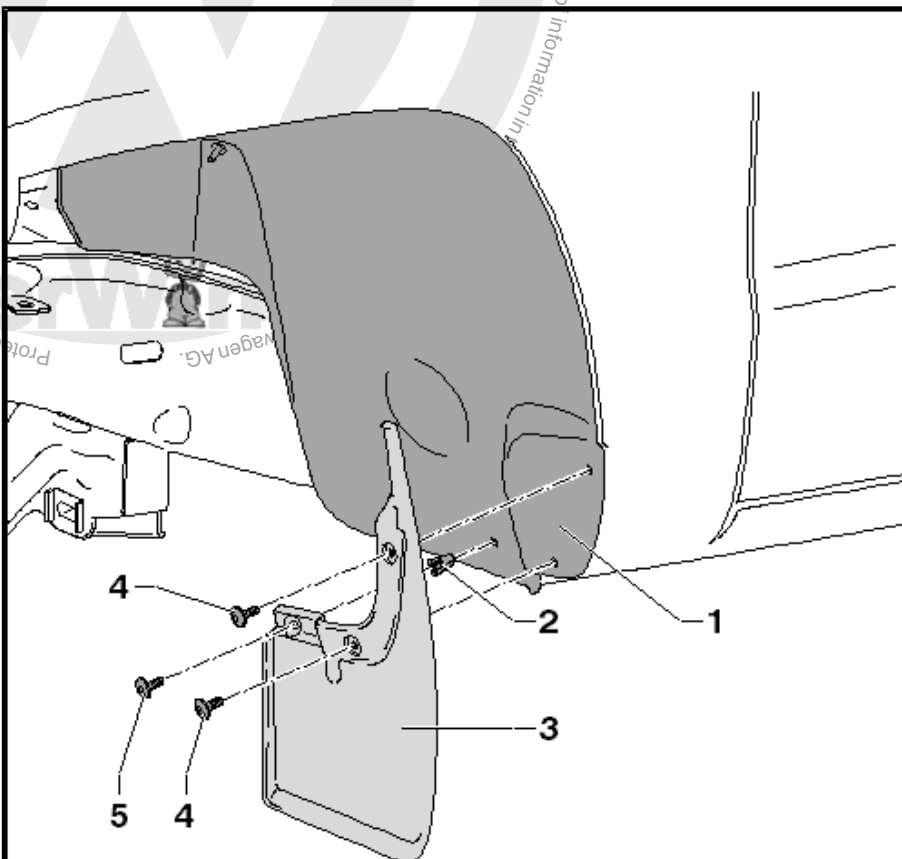
- ☐ Removing and installing  
⇒ [page 363](#)

#### 4 - Bolt

- ☐ Qty. 2
- ☐ Specified torque: 2.0 Nm
- ☐ These two bolts are included in the scope "wheel housing liner attachment".

#### 5 - Bolt

- ☐ Qty. 1
- ☐ Specified torque: 2.0 Nm







## 14.2 Assembly overview - front mudflap, with wheel arch trim



### Note

- ◆ Only the left side is shown. The right side is similar.
- ◆ Minor differences to the description may be encountered, depending on vehicle model.

#### 1 - Front wheel housing liner

- Removing and installing  
⇒ [page 304](#)

#### 2 - Expanding nut

- Qty. 4

#### 3 - Front mudflap

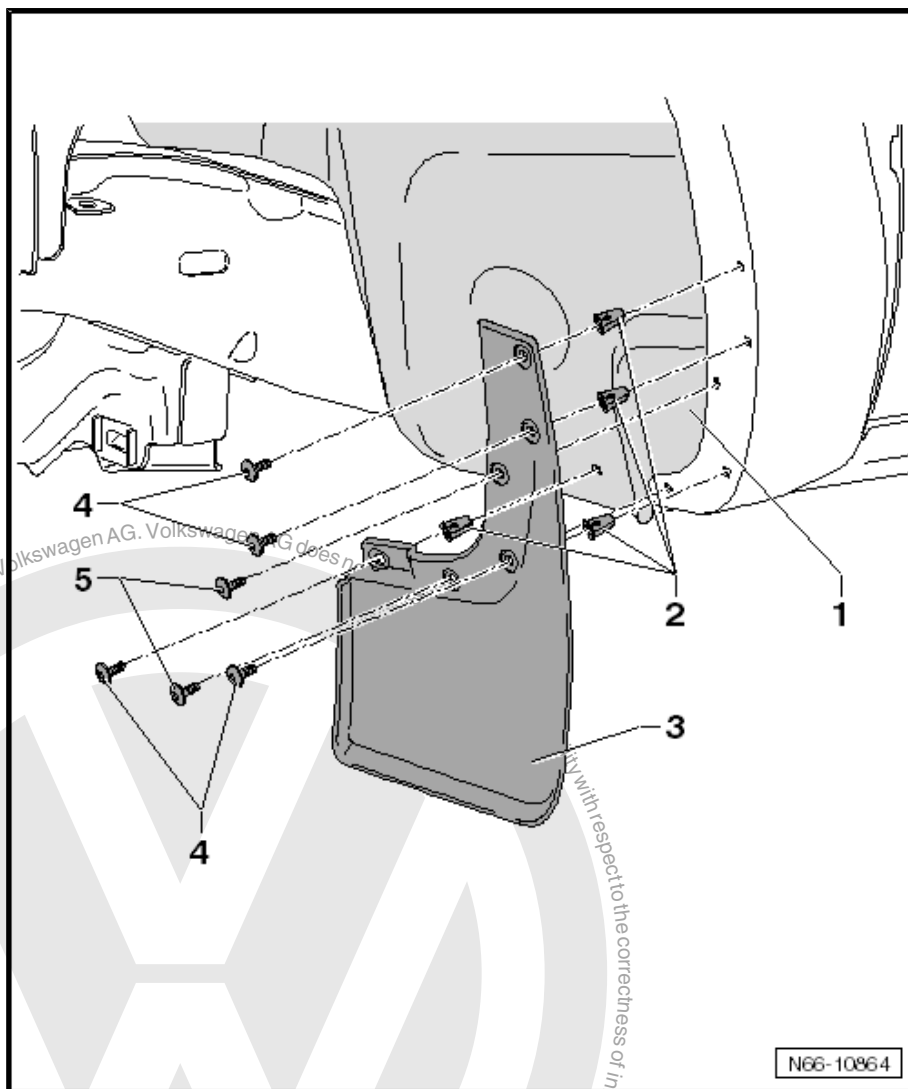
- Removing and installing  
⇒ [page 365](#)

#### 4 - Bolt

- Qty. 4
- Specified torque: 2.0 Nm

#### 5 - Bolt

- Qty. 2
- Specified torque: 2.0 Nm
- These two bolts are included in the scope "wheel housing liner attachment"



N66-10864





## 14.3 Assembly overview - rear mudflap, without wheel arch trim



### Note

- ◆ Only the left side is shown. The right side is similar.
- ◆ Minor differences to the description may be encountered, depending on vehicle model.

#### 1 - Rear wheel housing liner

- ❑ Removing and installing  
⇒ [page 304](#)

#### 2 - Rear mudflap

- ❑ Removing and installing  
⇒ [page 366](#)

#### 3 - Bolt

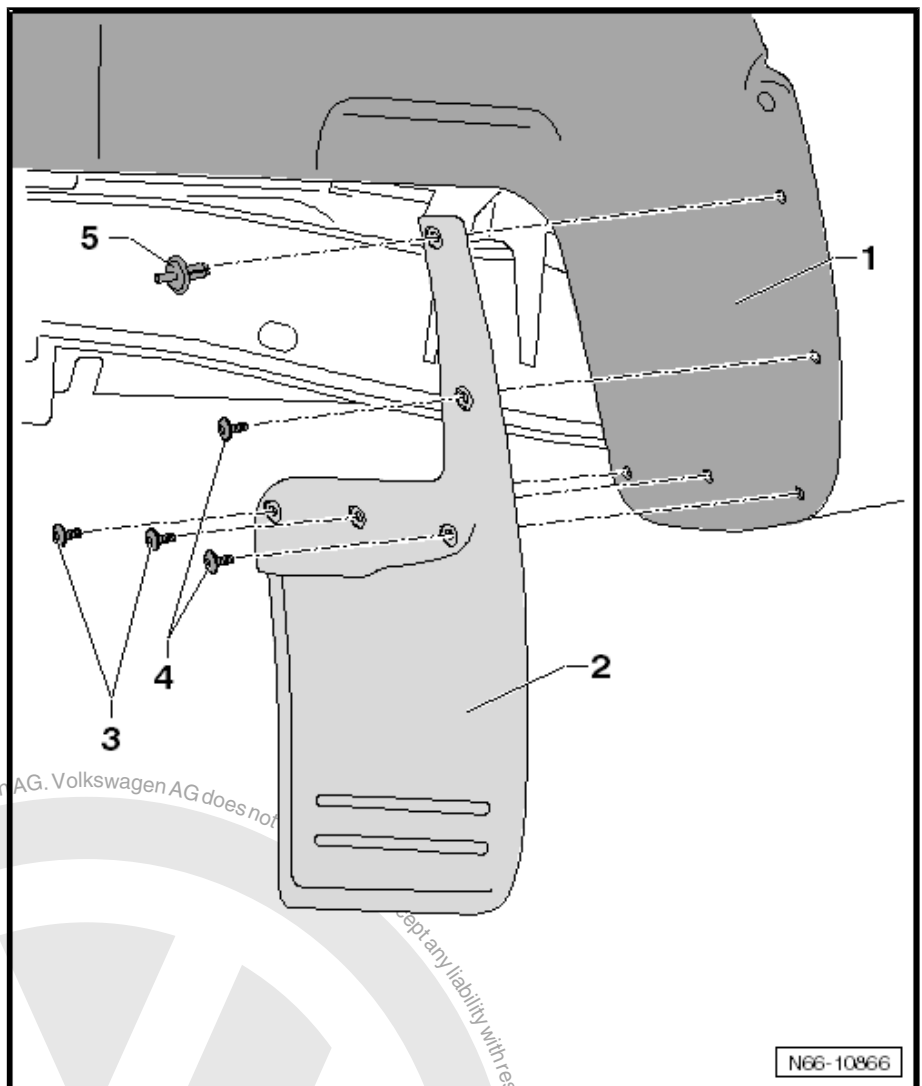
- ❑ Qty. 2
- ❑ Specified torque: 2.0 Nm
- ❑ These two bolts are included in the scope "wheel housing liner attachment".

#### 4 - Bolt

- ❑ Qty. 2
- ❑ Specified torque: 2.0 Nm

#### 5 - Spreader rivet

- ❑ Qty. 1



N66-10866





## 14.4 Assembly overview - rear mudflap, with wheel arch trim



### Note

- ◆ Only the left side is shown. The right side is similar.
- ◆ Minor differences to the description may be encountered, depending on vehicle model.

#### 1 - Rear wheel housing liner

- ❑ Removing and installing  
⇒ [page 304](#)

#### 2 - Expanding nut

- ❑ Qty. 3

#### 3 - Rear mudflap

- ❑ Removing and installing  
⇒ [page 368](#)

#### 4 - Bolt

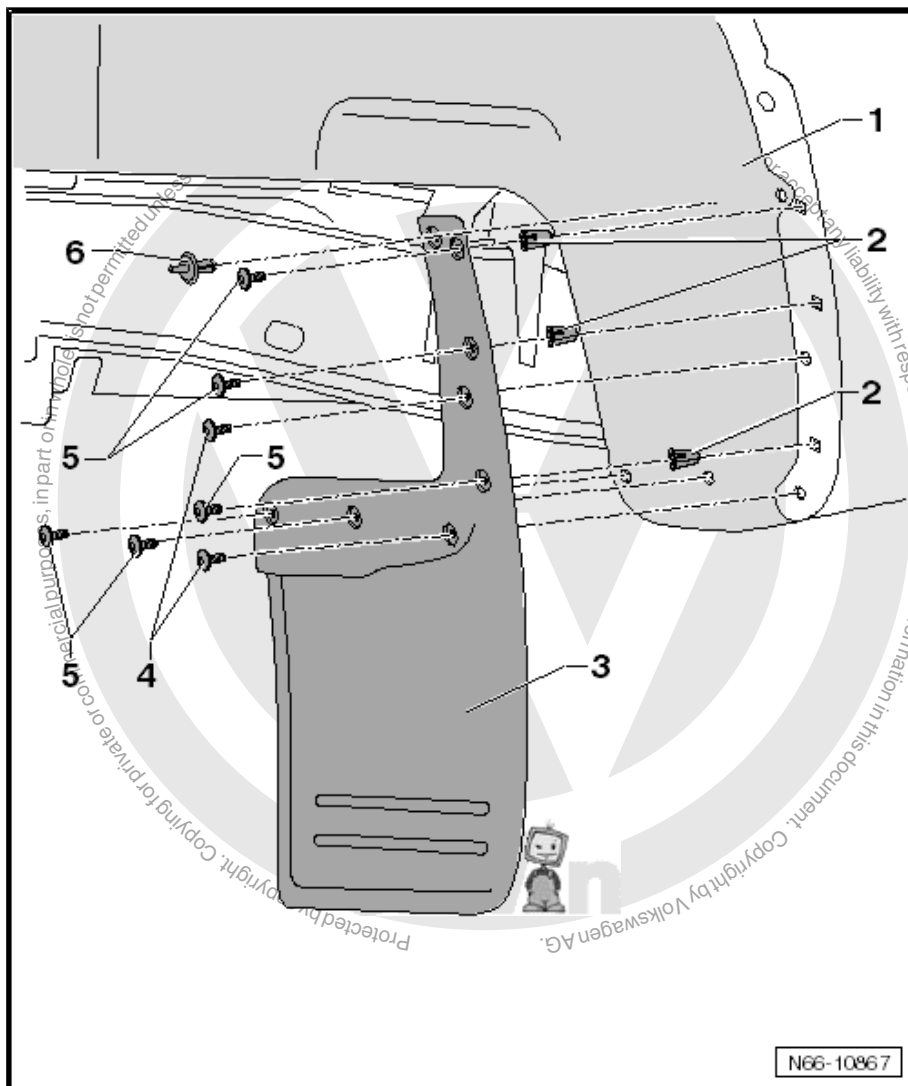
- ❑ Qty. 2
- ❑ Specified torque: 2.0 Nm
- ❑ These two bolts are required parts for attaching wheel housing liner.

#### 5 - Bolt

- ❑ Qty. 5
- ❑ Specified torque: 2.0 Nm

#### 6 - Spreader rivet

- ❑ Qty. 1







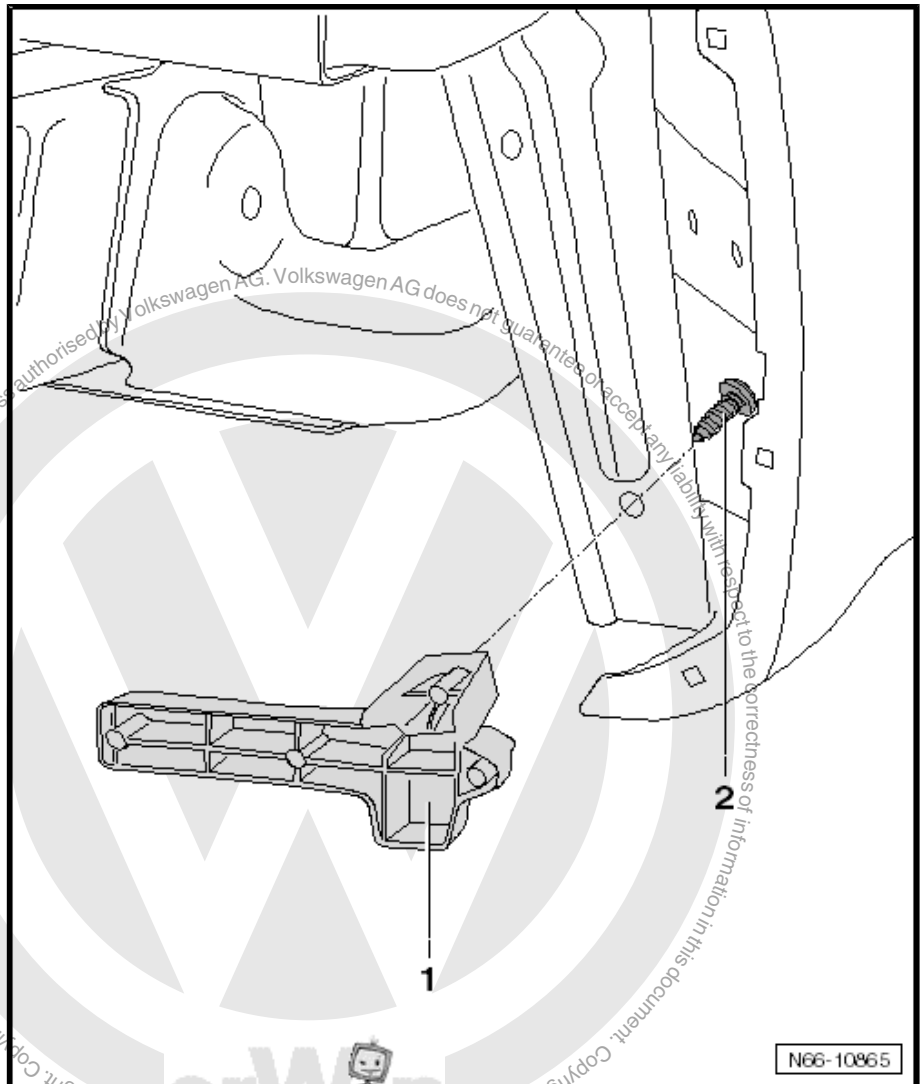
## 14.5 Assembly overview - rear mudflap bracket

### 1 - Rear mudflap bracket

- ❑ Remove rear wheel housing liner  
⇒ [page 304](#)

### 2 - Bolt

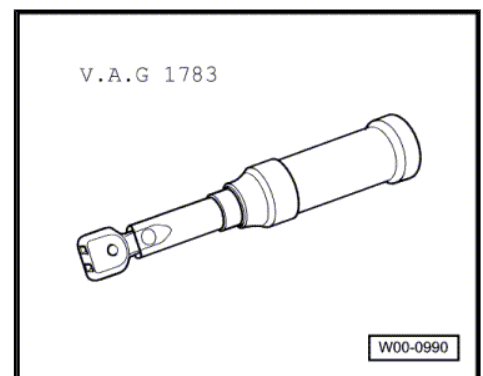
- ❑ Qty. 1
- ❑ Specified torque: 2.0 Nm
- ❑ Securing points: cargo box



## 14.6 Removing and installing front mud flaps, without wheel arch trim

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-

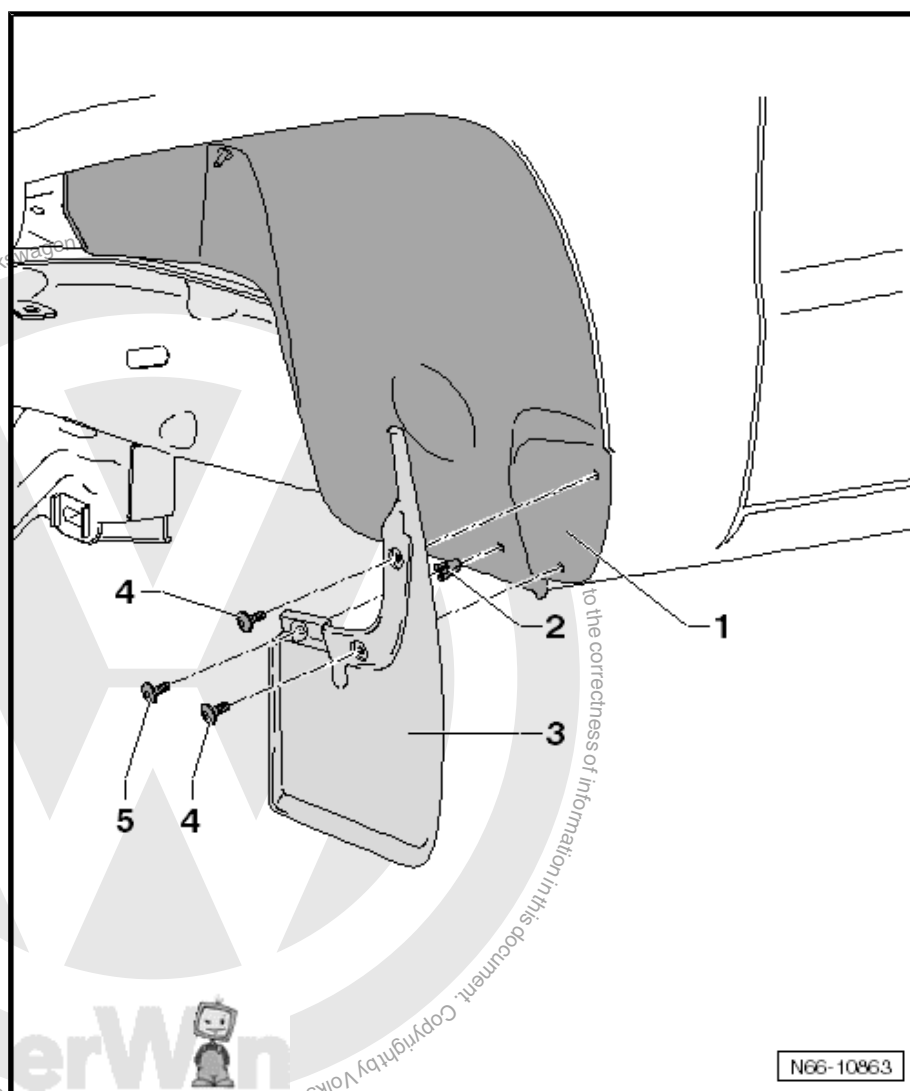






## Note

- ◆ The removal and installation sequence is only described for the left side. Removal and installation of the right side is similar.
- ◆ The removal and installation procedures may have to be modified slightly depending on model variants.



## Removing

- Remove bolts -4- and -5-.
- Remove front mudflap -3- from front wheel housing liner -1-.

## Installing

- Slide front mudflap -3- onto wing flange.

## Specified torques

- ◆ ⇒ [“14.1 Assembly overview - front mudflap, without wheel arch trim”, page 359](#)

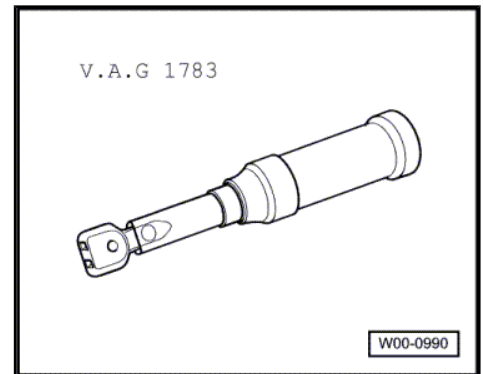




## 14.7 Removing and installing front mud flaps, with wheel arch trim

Special tools and workshop equipment required

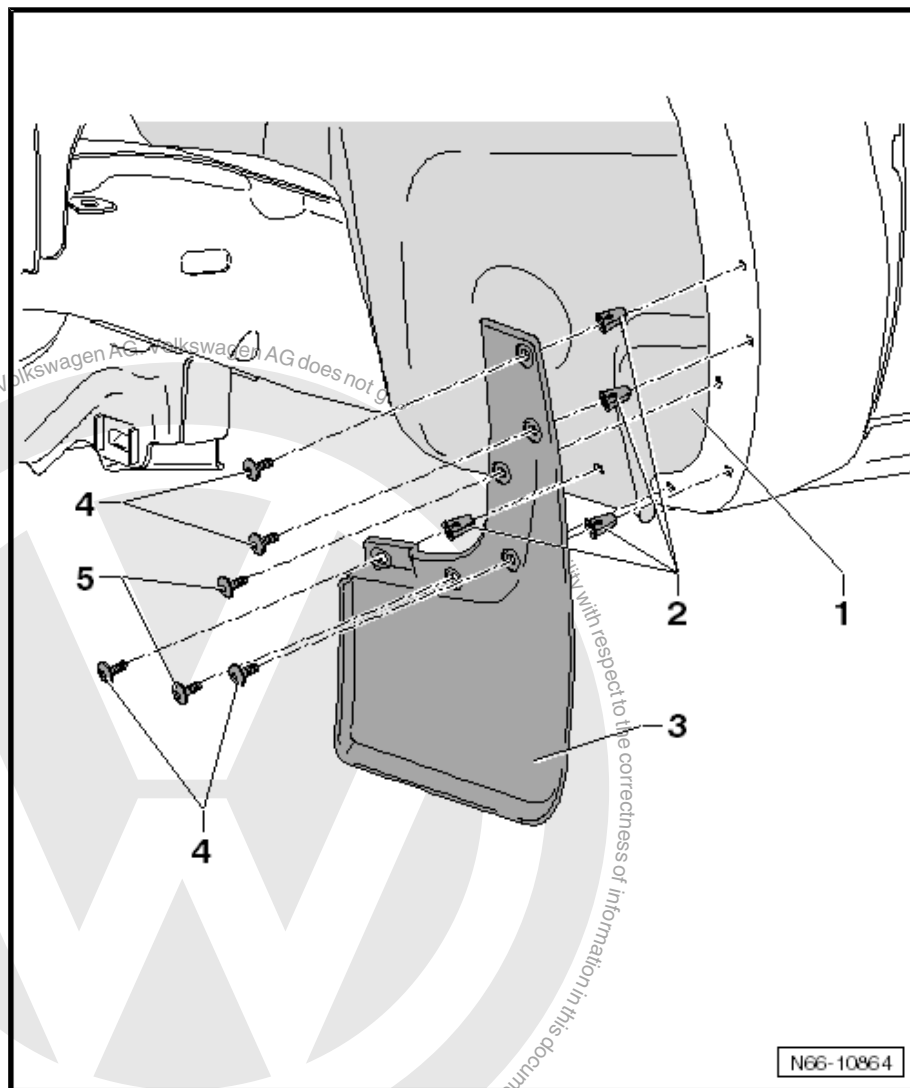
- ◆ Torque wrench -V.A.G 1783-



### Note

- ◆ *The removal and installation sequence is only described for the left side. Removal and installation of the right side is similar.*
- ◆ *The removal and installation procedures may have to be modified slightly depending on model variants.*





#### Removing

- Remove bolts -4- and -5-.
- Remove front mudflap -3- from front wheel housing liner -1-.

#### Installing

- Slide front mudflap -3- onto wing flange.

#### Specified torques

- ♦ ⇒ [“14.2 Assembly overview - front mudflap, with wheel arch trim”, page 360](#)

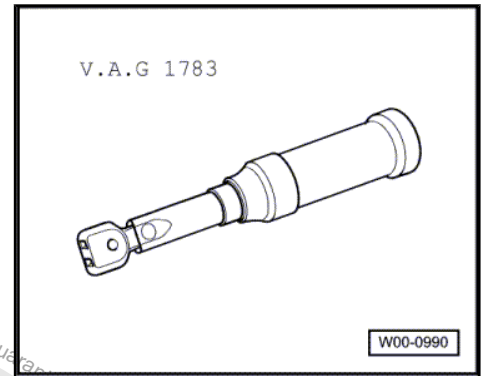
### 14.8 Removing and installing rear mud flaps, without wheel arch trim

Special tools and workshop equipment required



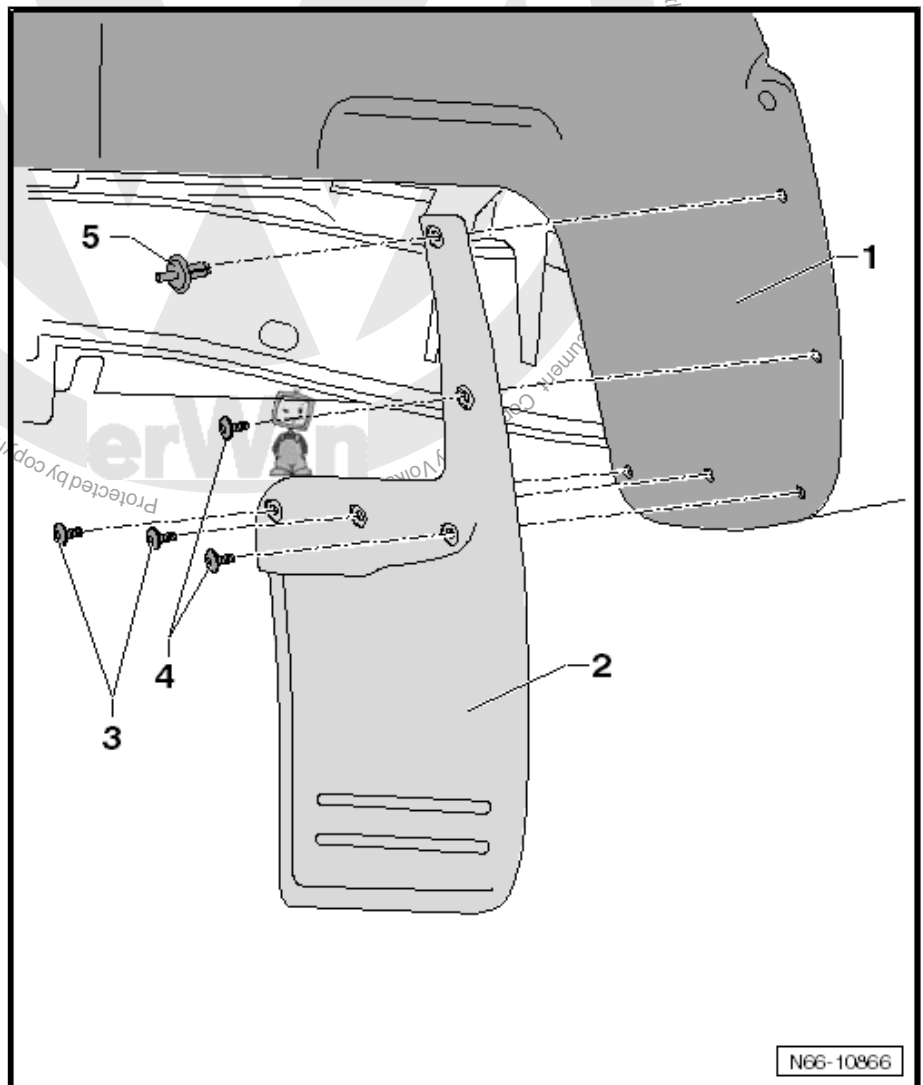


- ◆ Torque wrench -V.A.G 1783-



#### Note

- ◆ The removal and installation sequence is only described for the left side. Removal and installation of the right side is similar.
- ◆ The removal and installation procedures may have to be modified slightly depending on model variants.







## Removing

- Unscrew bolts -3- and -4-
- Use small drift to press pin inwards and unclip spreader rivet -5-.
- Remove rear mudflap -2- from front wheel housing liner -1-.

## Installing

- Rear mudflap bracket is fitted ⇒ [page 363](#) .
- Locate rear mudflap -2- and secure clip -5-.

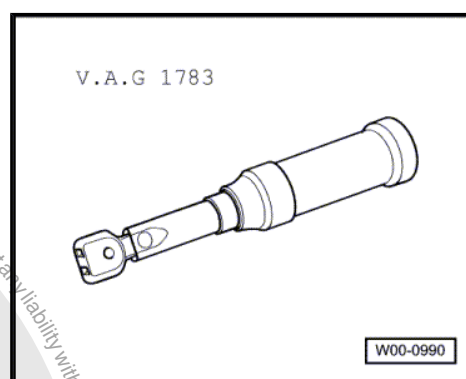
## Specified torques

- ♦ ⇒ [“14.3 Assembly overview - rear mudflap, without wheel arch trim”, page 361](#)

## 14.9 Removing and installing rear mud flaps, with wheel arch trim

### Special tools and workshop equipment required

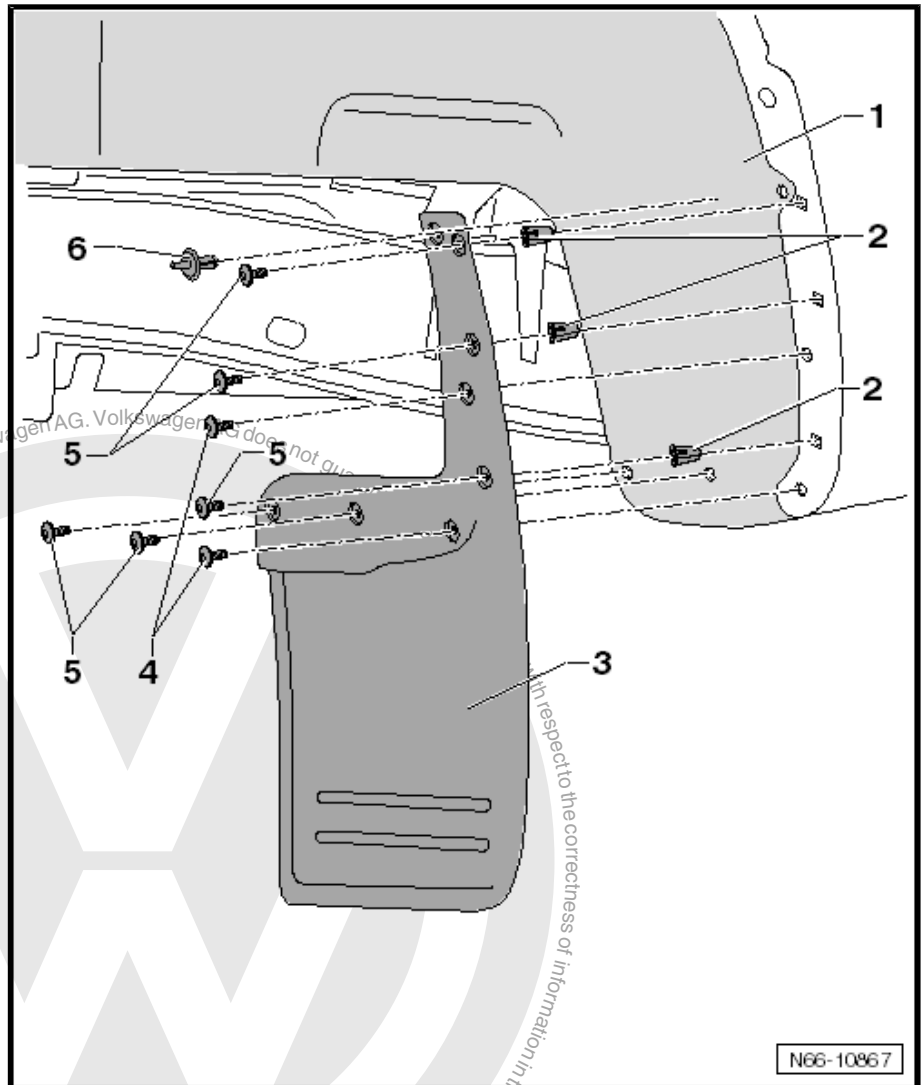
- ♦ Torque wrench -V.A.G 1783-



### Note

- ♦ *The removal and installation sequence is only described for the left side. Removal and installation of the right side is similar.*
- ♦ *The removal and installation procedures may have to be modified slightly depending on model variants.*





### Removing

- Unscrew bolts -4- and -5-
- Use small drift to press pin inwards and unclip spreader rivet -6-.
- Remove rear mudflap -3- from front wheel housing liner -1-.

### Installing

- Rear mudflap bracket is fitted ⇒ [page 363](#) .
- Locate rear mudflap -3- and secure clip -6-.
- Secure clip -6-.

### Specified torques

- ◆ ⇒ [“14.4 Assembly overview - rear mudflap, with wheel arch trim”, page 362](#)