



Workshop Manual

Jetta 2011 ➤

Jetta Hybrid 2013 ➤

General body repairs, exterior

Edition 08.2012





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
- 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

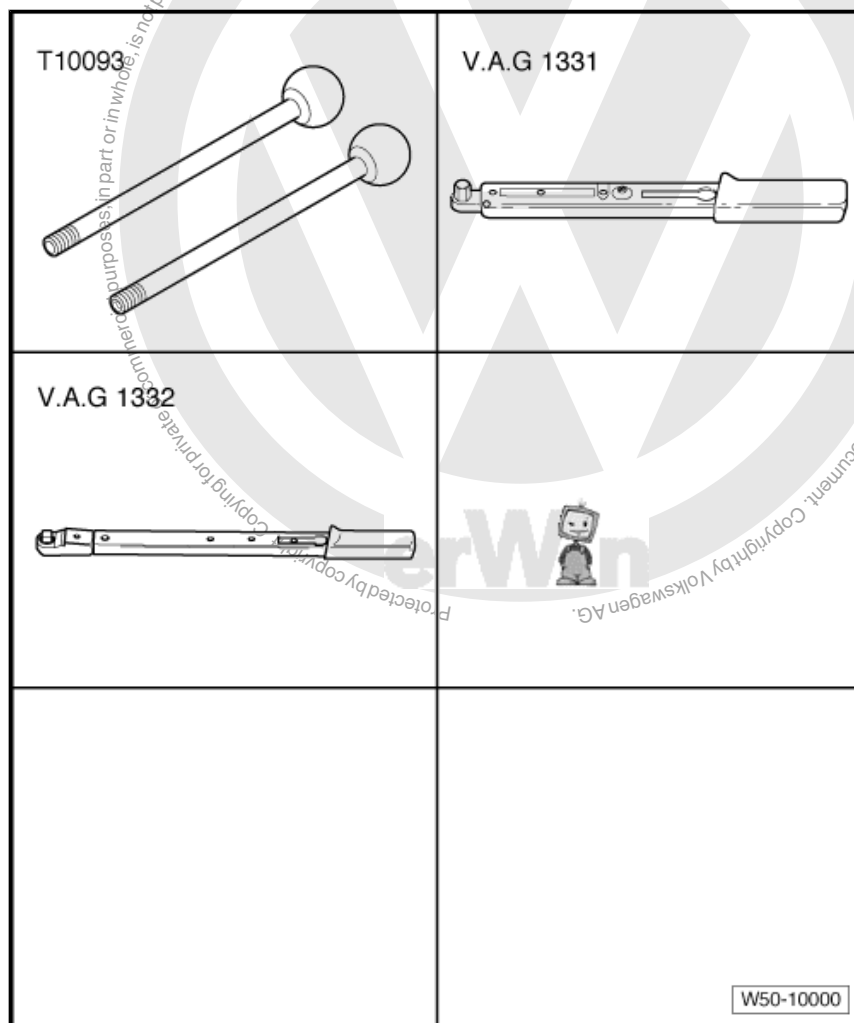
1 Lock carrier

(VRL004906; Edition 08.2012)

1.1 Tools

Special tools and workshop equipment required

- ◆ Guide pins -T 10093-
- ◆ Torque wrench -V.A.G 1331-
- ◆ Torque wrench -V.A.G 1332-





1.2 Lock carrier - add-on parts

1.2.1 Assembly overview

1 - Lock carrier with add-on parts

- ☐ Removing and installing
⇒ [page 6](#)
- ☐ Service position
⇒ [page 3](#)

2 - Air duct

3 - Bolt

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

4 - Bolt

- ☐ Qty. 3 on each side.
- ☐ Specified torque: 8 Nm.

5 - Retaining bracket

- ☐ Left.

6 - Air guide

- ☐ Left.

7 - Bolt

- ☐ Qty. 2 on each side.
- ☐ Specified torque: 8 Nm.
- ☐ For fastening bumper carrier -9- to lock carrier -1-

8 - Bolt

- ☐ Qty. 3 on left-hand side
- ☐ Qty. 4 on right-hand side
- ☐ Specified torque: 60 Nm.

9 - Bumper carrier

10 - Nut

- ☐ Qty. 2.
- ☐ Specified torque: 18 Nm.
- ☐ For fastening lock carrier support -15- to bumper carrier -9-

11 - Bolt

- ☐ Qty. 3.
- ☐ Specified torque: 8 Nm.

12 - Centre guide

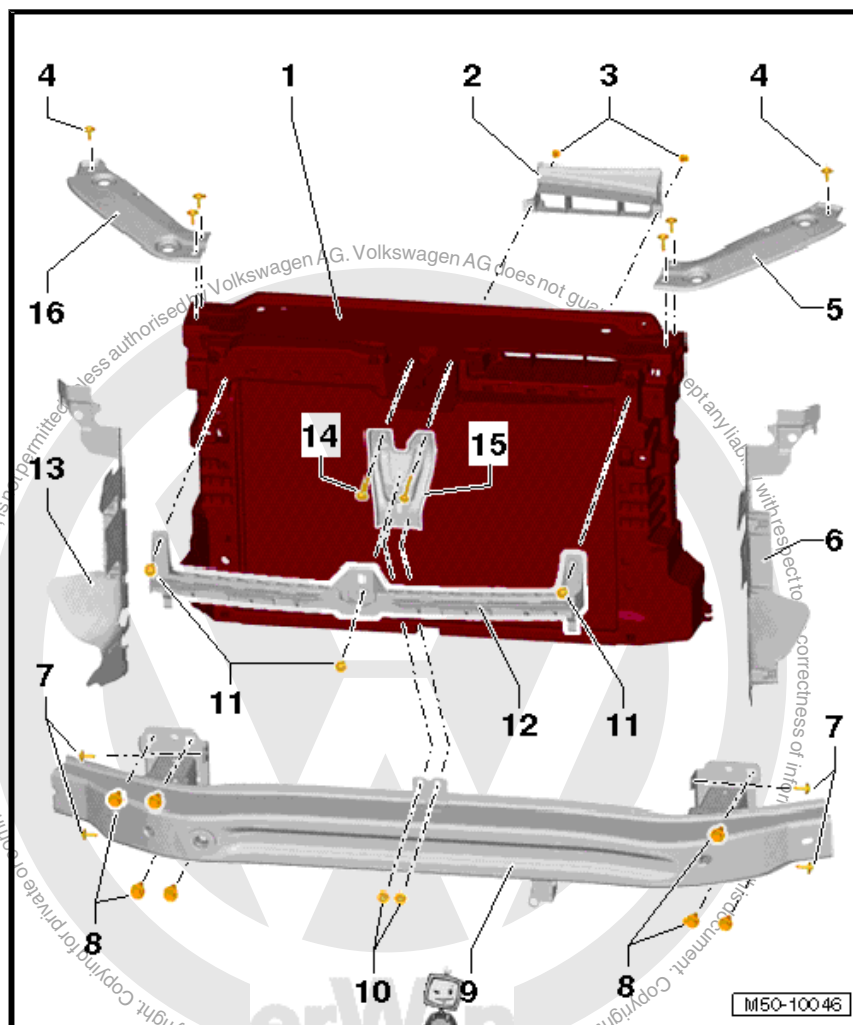
- ☐ Guide for front bumper cover

13 - Air guide

- ☐ Right.

14 - Bolt

- ☐ Qty. 2.
- ☐ Specified torque: 12 Nm.
- ☐ For fastening lock carrier support to lock carrier and bonnet lock





15 - Support for lock carrier

16 - Retaining bracket

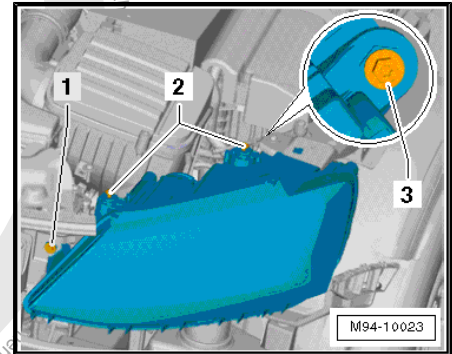
- ☐ Right.

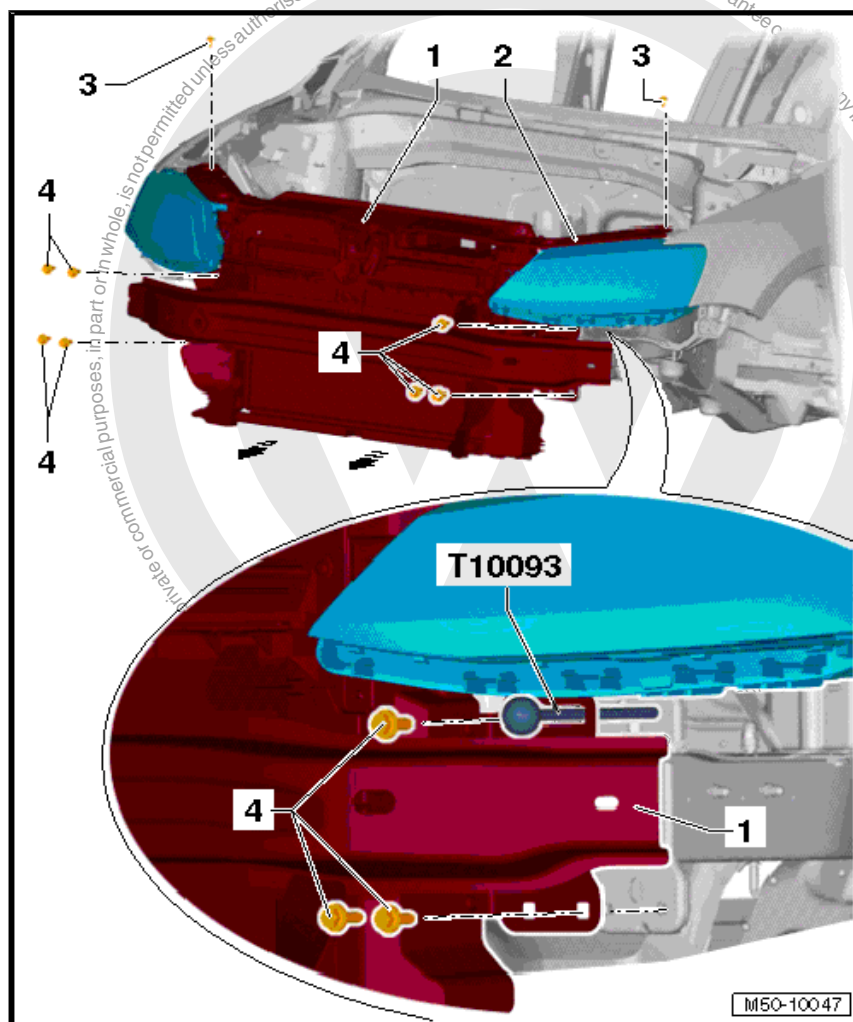
1.3 Service position

1.3.1 Moving to service position

Carry out following work:

- Undo bolt -3- on left and right at rear of headlight.





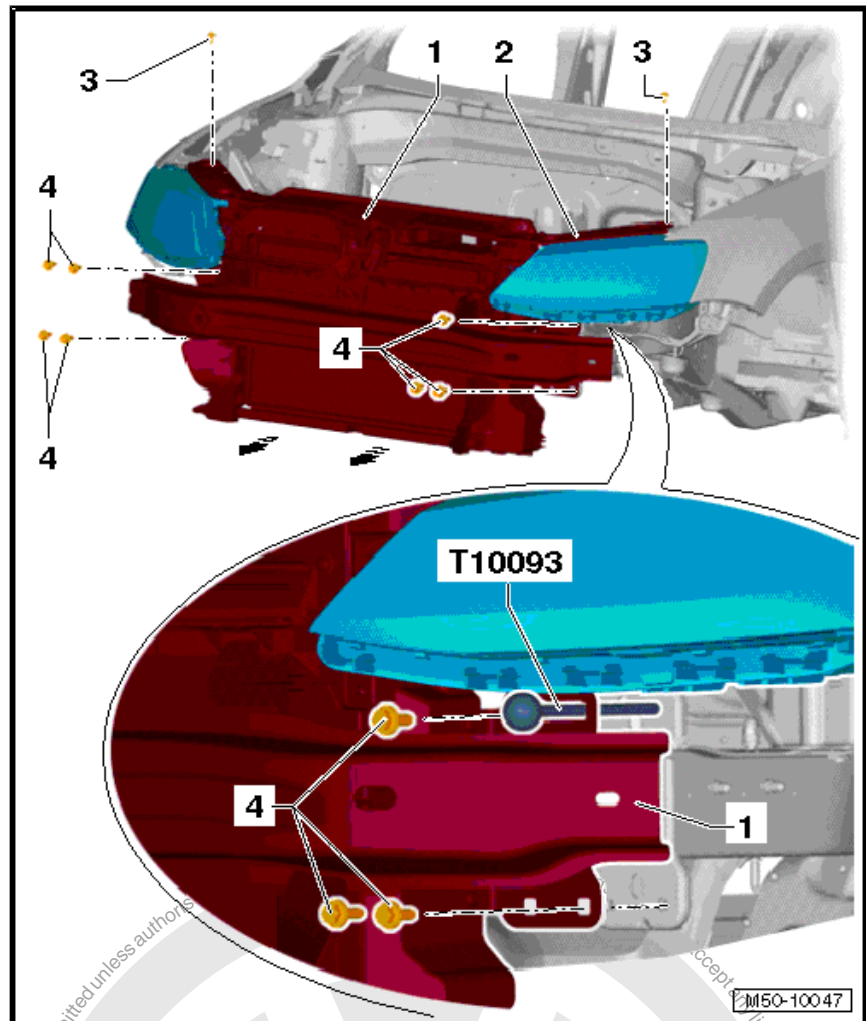
- Remove front bumper cover ➤ [page 175](#) .
- Detach cable from cable coupling ➤ [page 45](#)
- On vehicles with charge air cooler, remove pressure hoses ➤ [page 8](#) .
- Only remove one bolt -4- on left and right side of each longitudinal member.
- Attach special tool guide pins -T 10093- to left and right longitudinal members where these bolts were located.
- Remove remaining bolts -4- on left and right side of longitudinal members.

For further removal work, arrange for a second mechanic to secure the bonnet and support rod.

- Unscrew bolts -3- on left and right from upper part of retaining brackets -2-.
- The lock carrier with add-on parts -1- can be pulled forwards -arrows- about 10 cm on the special tool guide pins -T 10093- . When doing this, be careful with the electrical wires/cables leading to lock carrier and, if necessary, detach connectors.



1.3.2 Moving from service position



Carry out following work:

- Push lock carrier together with add-on parts -1- on the guide pins -T10093- and onto the longitudinal member.
- Fit bolts -3- and -4- in place.
- Align lock carrier together with add-on parts -1- to longitudinal members and between wings ⇒ Body Repairs; Rep. gr. 00 ; Body gaps/shut lines; Body - front .

Specified torque for bolts -3-: 8 Nm.

Specified torque for bolts -4-: 60 Nm.

Further installation is performed in the reverse order of removal.



Note

- ◆ Make sure that the charge air cooler pressure hoses are properly refitted ⇒ [page 8](#) .
- ◆ Hoses and lines must not be pinched.



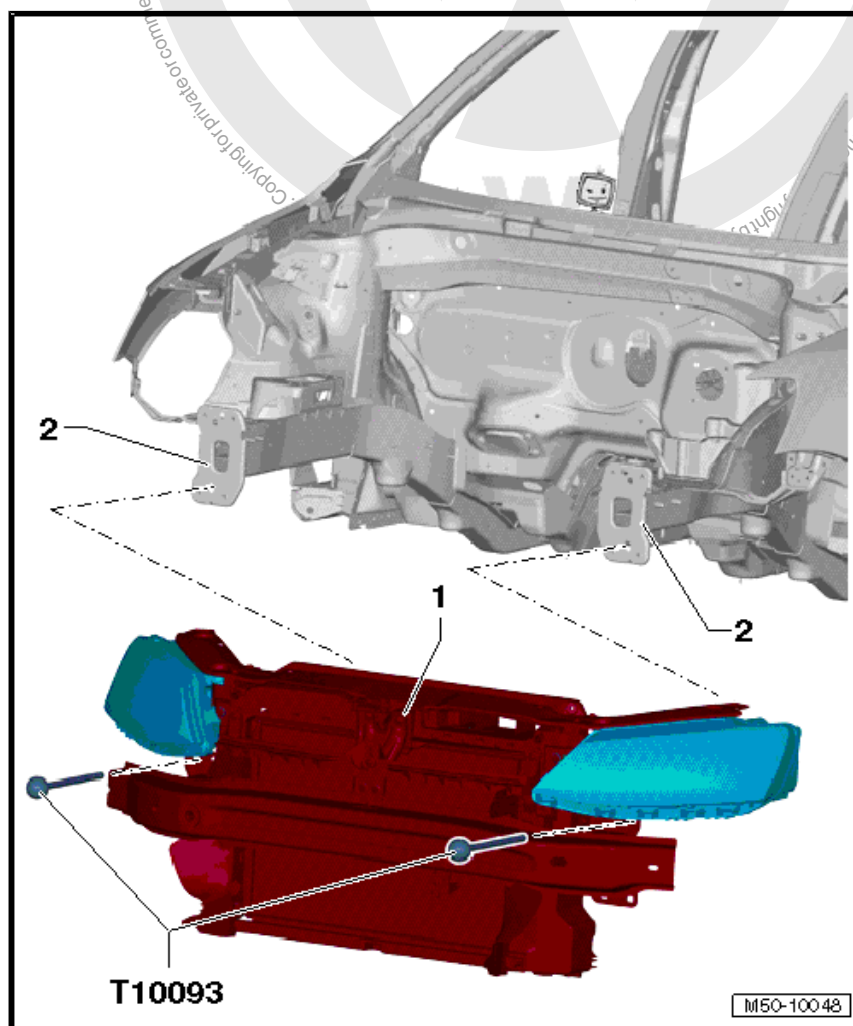
1.4 Removing and installing lock carrier with add-on parts

1.4.1 Removing



Note

- ♦ The lock carrier is a safety-relevant component. It must not be repaired for this reason.
- ♦ In the event of damage, renew lock carrier.



Carry out following work:

- Move to service position ⇒ [page 3](#) .
- Detach any electrical connectors.
- Drain coolant and disconnect coolant lines ⇒ Engine; Rep. gr. 19 ; Parts of the cooling system; Draining and filling coolant .
- Disconnect coolant lines for condenser ⇒ Heating, air conditioning; Rep. gr. 87 ; Repairs to the refrigerant circuit which



must only be carried out by suitable workshops with expert mechanics; Removing and installing condenser .

- Support bonnet and remove support rod from bonnet.
- Together with a second mechanic, unscrew guide pins - T10093- from left and right longitudinal member -2- and lift out lock carrier with add-on parts -1-.



WARNING

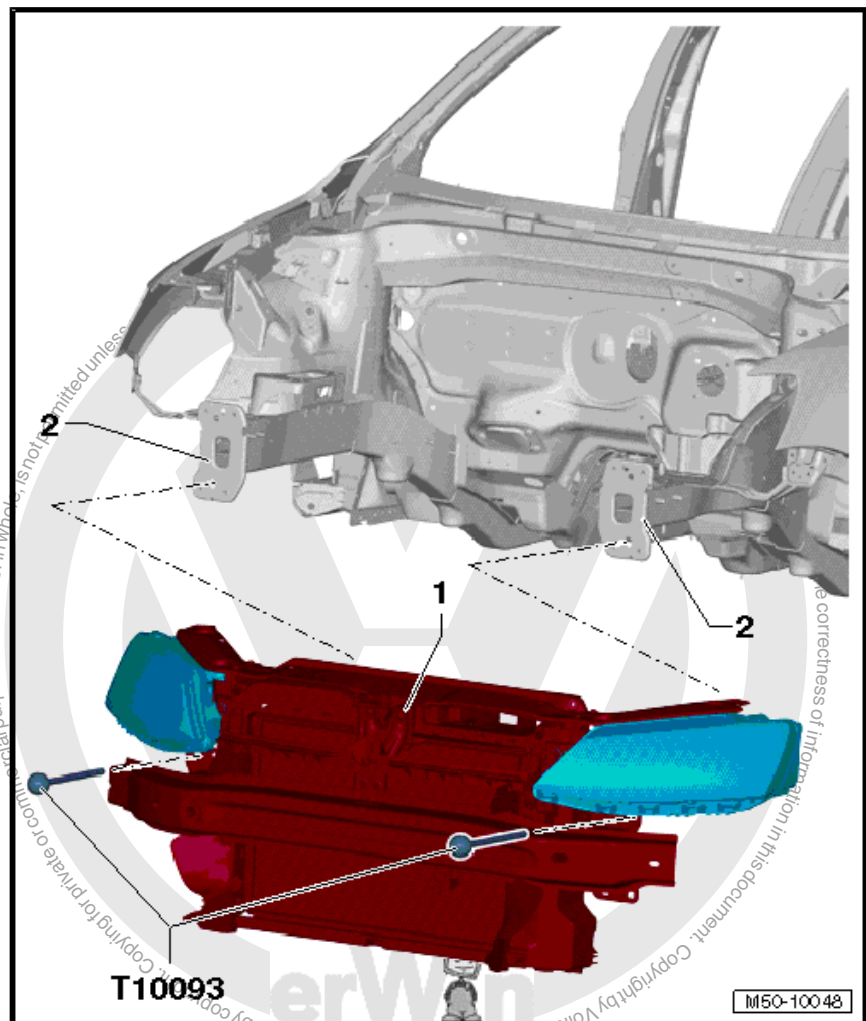
Do not start the engine if the air conditioning system and/or the coolant system lines are disconnected.



Note

- ◆ Do not hang condenser and hydraulic oil cooler from lines.
- ◆ Do not kink condenser and hydraulic lines.

1.4.2 Installing





Carry out following work:

- Fit lock carrier -1- on longitudinal members -2-.
- Screw in guide pins -T10093- on left and right sides.
- Moving from service position ➔ [page 5](#)

Further installation is performed in the reverse order of removal.

- During assembly, ensure that all connectors and hose connections are properly installed.
- Align lock carrier together with add-on parts -1- to longitudinal members and between wings ➔ Body Repairs; Rep. gr. 00 ; Body gaps/shut lines; Body - front .

1.5 Removing and installing pressure hoses

1.5.1 Pressure hose with push-on coupling

Releasing pressure hose

Carry out following work:

- Disengage retaining clip -1- in direction of -arrow a-.
- Pull pressure hose -2- in direction of -arrow b- out of coupling -3-.

Fitting pressure hose so that it latches into place

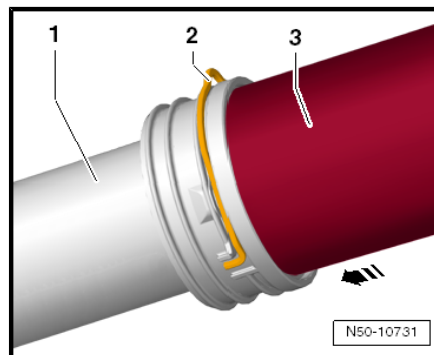
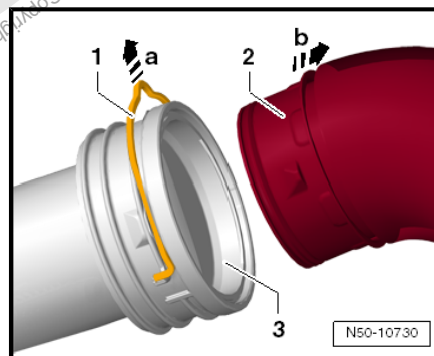
Carry out following work:

- Ensure that the retaining clip -2- is in the upper position.
- Insert pressure hose -3- in direction of -arrow- into coupling -1-.
- Press retaining clip -2- all the way downwards.



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.





1.5.2 Pressure hose with and ribbed union and hose clamp

Removing pressure hose

Carry out following work:

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

Fitting pressure hose

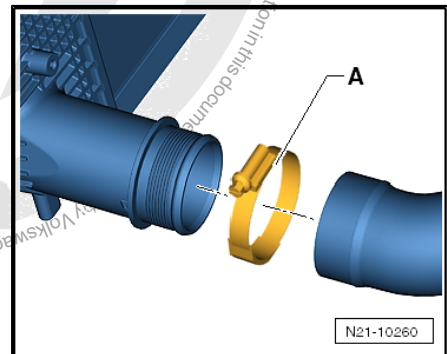
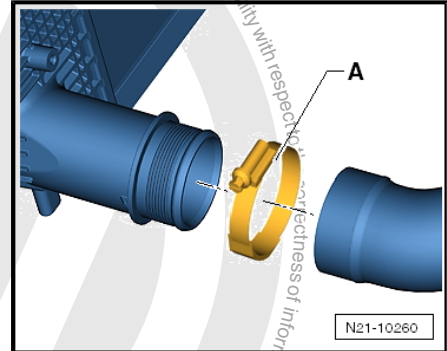
Carry out following work:

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



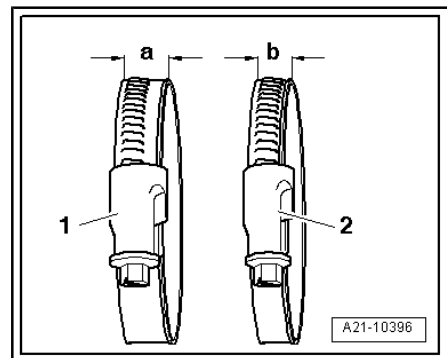
Caution

*The hose clamp screw -A- must be tightened as prescribed ⇒ **page 9** . 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.*



Specified torque for hose clamps

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



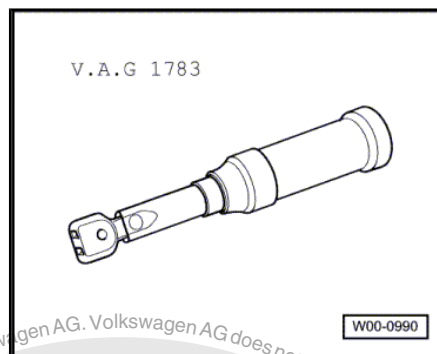


2 Wing

2.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-





2.2 Assembly overview - front wing



Note

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

1 - Wing

- ☐ Removing and installing
⇒ [page 11](#)

2 - Bolt

- ☐ Qty. 1, A-pillar.
- ☐ Qty. 2, wheel housing
- ☐ Qty. 1, side member
- ☐ Qty. 2, wing bracket
- ☐ Qty. 3, wing connection piece
- ☐ Specified torque: 6 Nm.

3 - Wing end plate

- ☐ Removing and installing
⇒ [page 15](#)

4 - Insulation of wing end plate

- ☐ Placed in front of wing end plate ⇒ [page 14](#)
- ☐ Not installed in all model versions

5 - Foam element

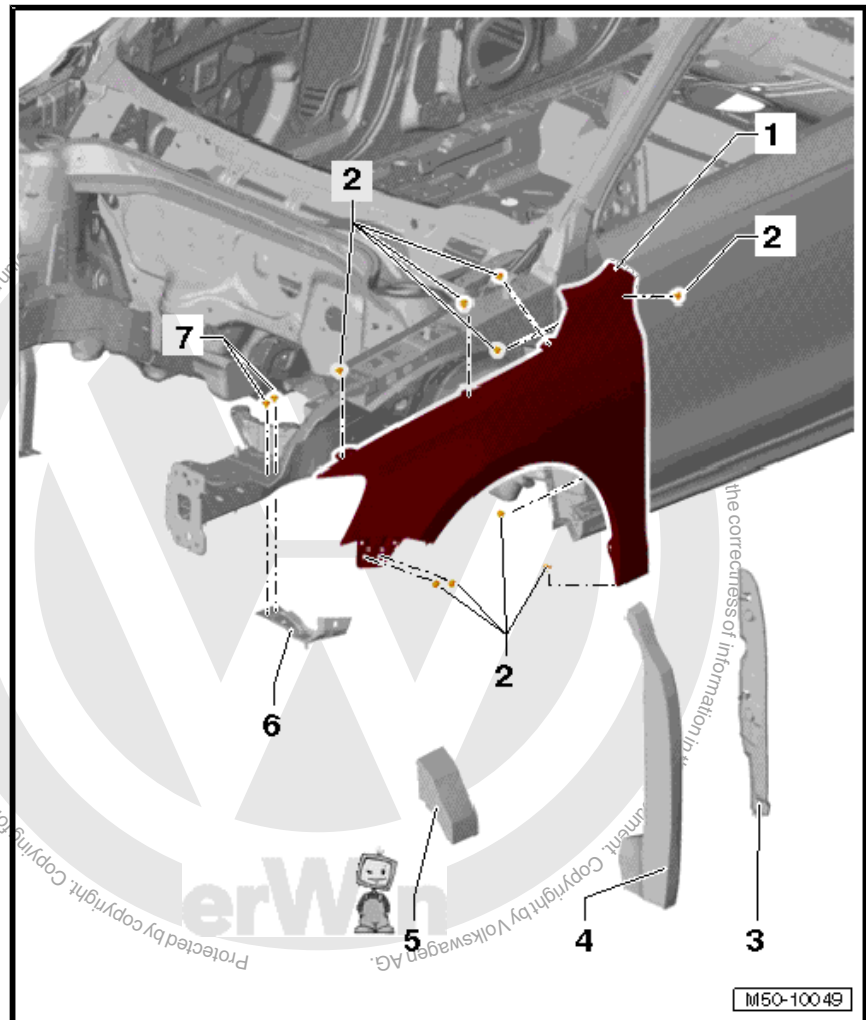
- ☐ Inserted between wing and longitudinal member for top of wheel arch
⇒ [page 14](#)

6 - Wing bracket

- ☐ Removing and installing
⇒ [page 15](#)

7 - Bolt

- ☐ Qty. 2.
- ☐ Specified torque: 6 Nm.



2.3 Removing and installing front wing

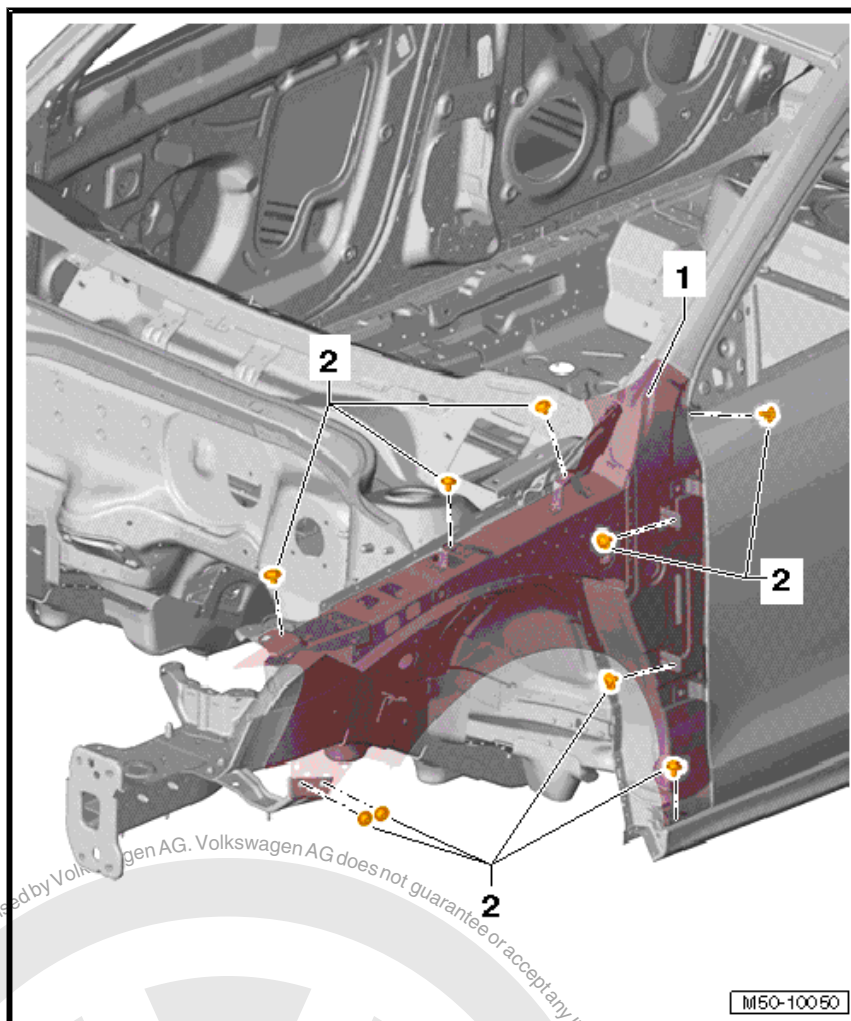


Note

The removal and installation sequence is only described for the left wing. Removal and installation of the right wing is similar.



2.3.1 Removing



Carry out following work:

- Remove wheel housing liners ⇒ [page 236](#) .
- Pull out foam between wing and longitudinal member ⇒ [Item 5 \(page 11\)](#) .
- Pull out insulation of wing end plate, if it exists ⇒ [Item 4 \(page 11\)](#) .
- Remove wing end plate ⇒ [page 15](#) .
- Remove front bumper cover ⇒ [page 175](#) .
- Remove guide at side for front bumper cover ⇒ [page 179](#) .
- If featured, remove water channel ⇒ [page 274](#) .
- Remove bolts -2-
- Remove wing -1- carefully.

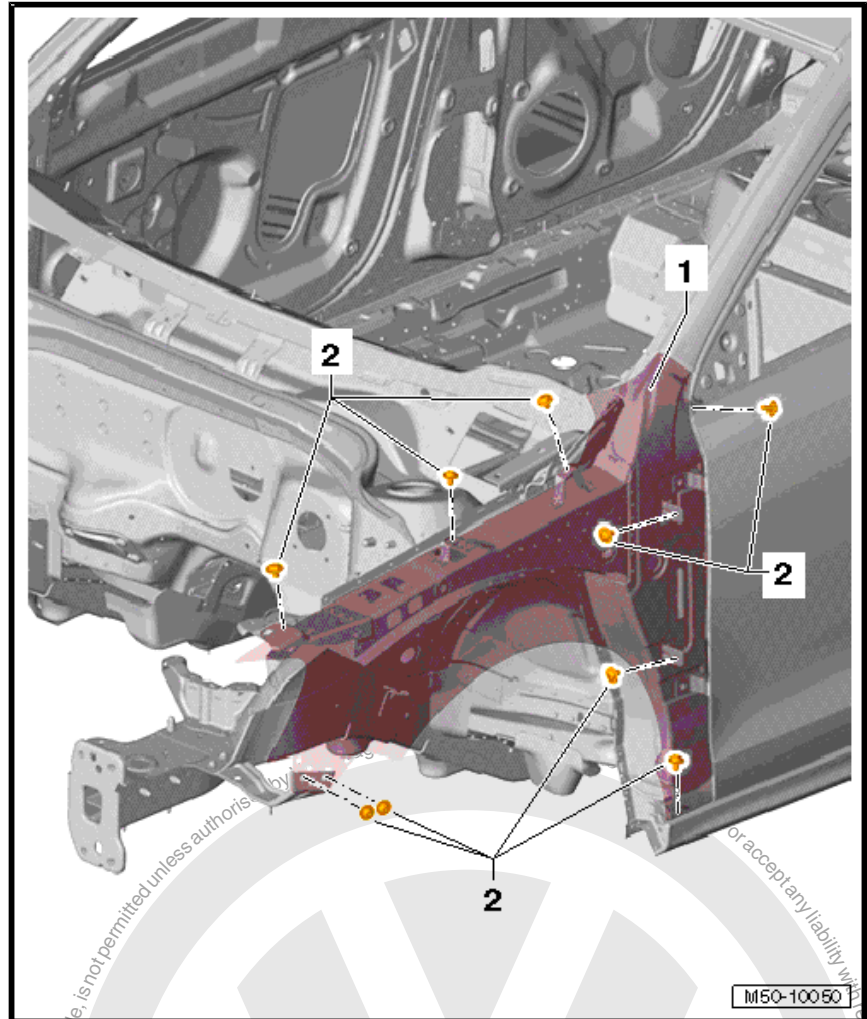


2.3.2 Installing



Note

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



Carry out following work:

Installation of the wing -1- is carried out in reverse order of removal.

- Insulation, foam parts and specified torques for bolts -2-
⇒ [page 11](#) .
- Ensure joints are parallel and shut lines are equal ⇒ Body Repairs; Rep. gr. 00 ; Body gaps; Body, front .



2.4 Insulation and foam elements for wing and wing end plate



Note

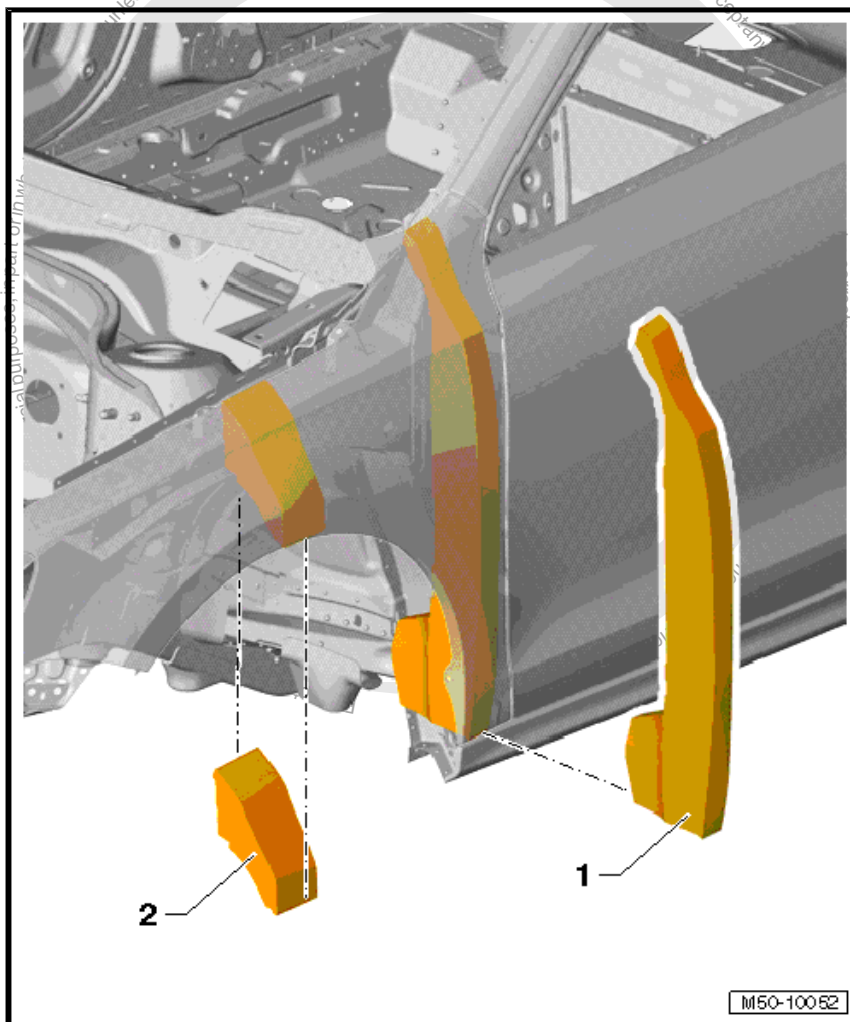
- ◆ Only the left side is shown. The right side is similar.
- ◆ Different forms of insulation and foam parts may have been installed.

1 - Insulation of wing end plate

- ☐ Placed in front of wing end plate
- ☐ Not installed in all model versions

2 - Foam element

- ☐ Inserted between wing and longitudinal member for top of wheel arch





2.5 Wing end plate



Note

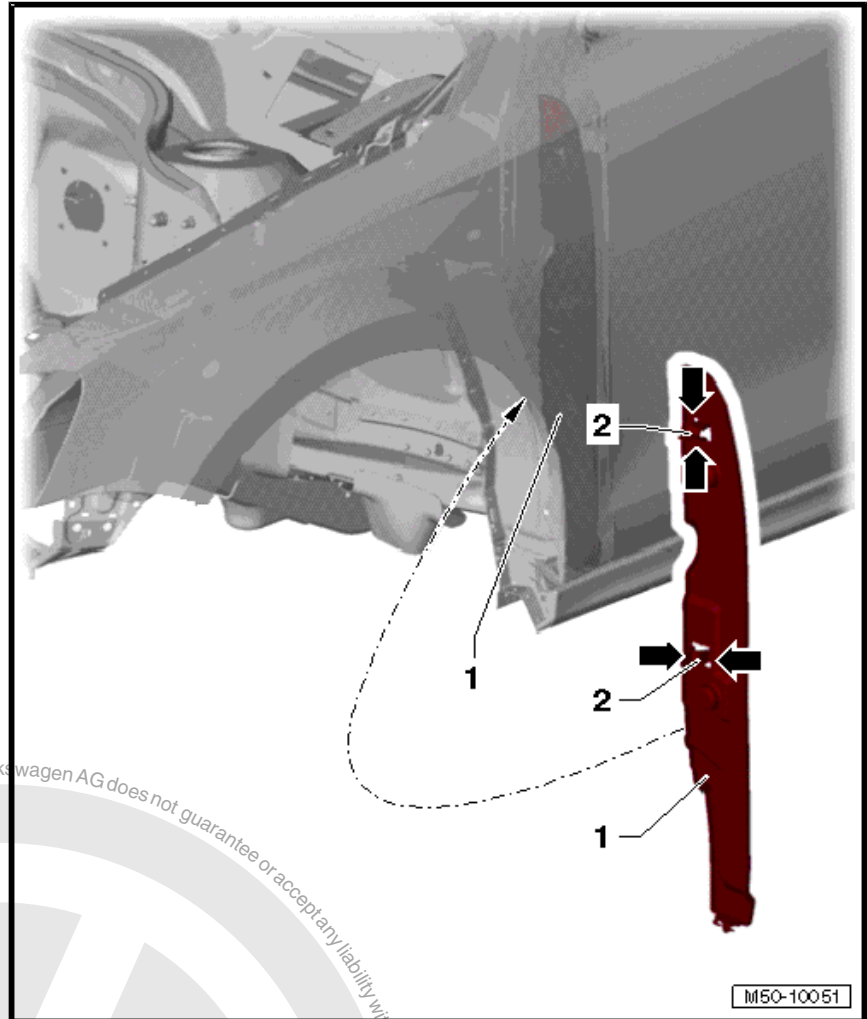
Only the left side is shown. The right side is similar.

1 - Wing end plate

- ☐ Placed in front of wing web plate
- ☐ When installing, ensure correct seating of positioning lug in hole of side member

2 - Locking lug

- ☐ Qty. 2.
- ☐ Press together -arrows- to remove wing end plate



2.6 Removing and installing wing bracket



Note

The removal and installation sequence is described for the left wing bracket. The removal and installation of the right wing bracket is similar.

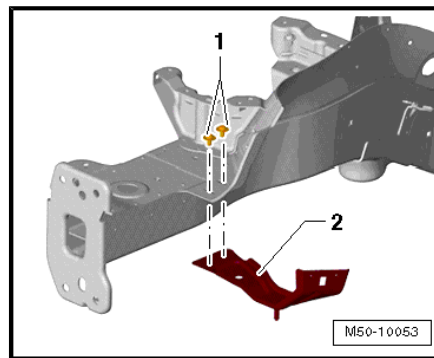
2.6.1 Removing

Carry out following work:

- Remove front bumper cover ➔ [page 175](#) .
- Remove guide at side for front bumper cover ➔ [page 179](#) .



- Undo bolts for fastening front wing to wing bracket -2-
⇒ [page 11](#) .
- Undo bolts -1- and remove wing bracket -2-.

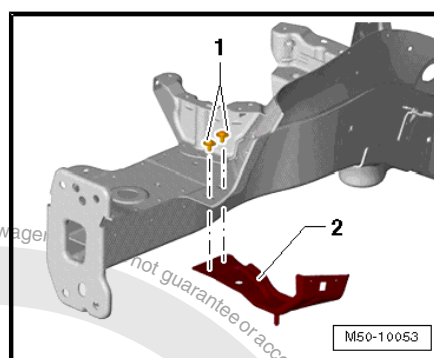


2.6.2 Installing

Carry out following work:

- Fit wing bracket -2-.
- Screw in bolts for fastening front wing to wing bracket -2-
⇒ [page 11](#) .
- Mount guide at side for front bumper cover ⇒ [page 179](#) .
- Fit front bumper cover ⇒ [page 175](#) .
- Wing bracket is fitted together with wing to bonnet and bumper
⇒ Body Repairs; Rep. gr. 00 ; Body panel gaps/shut lines;
Body - front .

Specified torque for bolts -2-: 6 Nm.

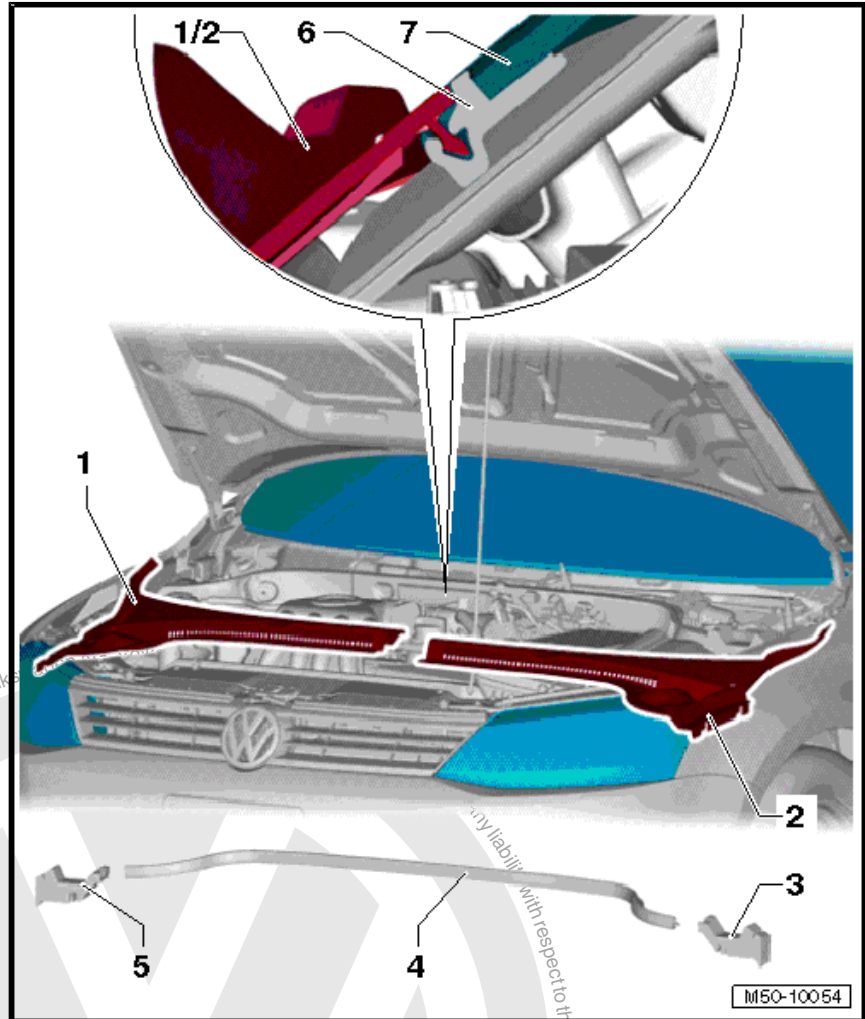




3 Plenum chamber cover

3.1 Assembly overview - plenum chamber cover

- 1 - Plenum chamber, right
 - ❑ Removing and installing
⇒ [page 17](#)
- 2 - Plenum chamber cover, left
 - ❑ Removing and installing
⇒ [page 17](#)
- 3 - Moulded foam element
 - ❑ Left.
- 4 - Seal
- 5 - Moulded foam element
 - ❑ Right.
- 6 - Windscreen seal
 - ❑ Part of windscreen
- 7 - Windscreen



3.2 Removing and installing plenum chamber covers



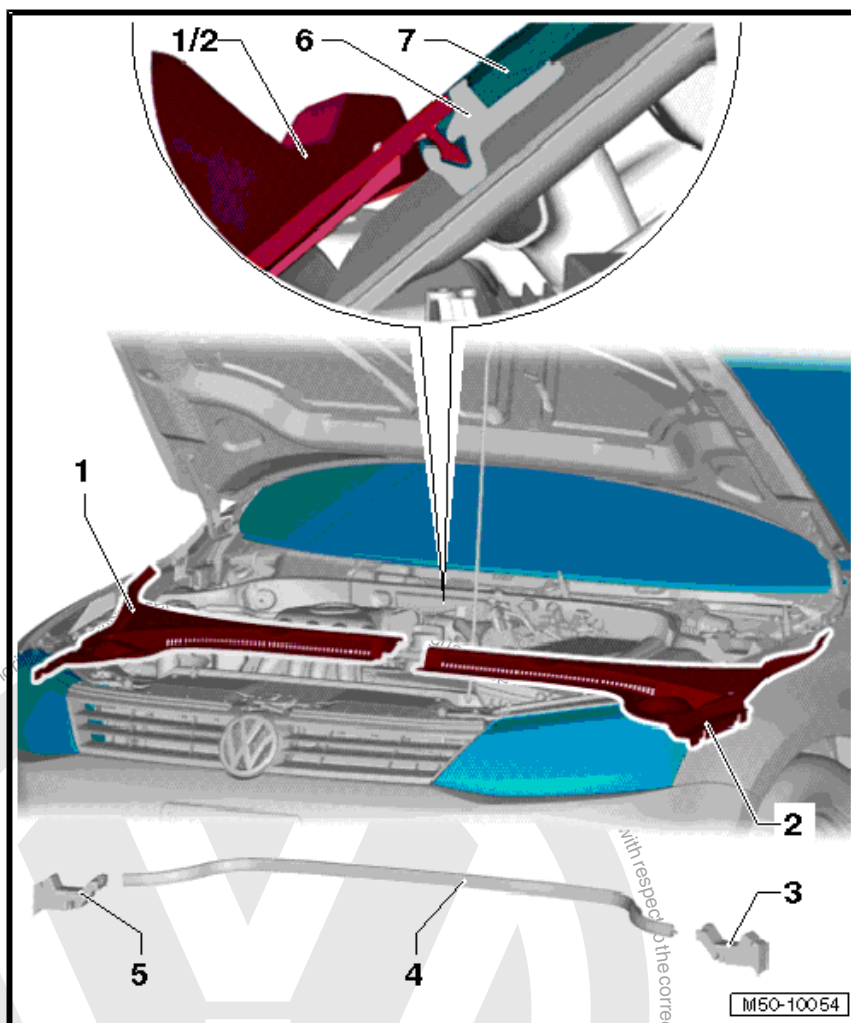
Note

The removal and installation procedures for the plenum chamber covers may have to be modified slightly depending on model variants.





3.2.1 Removing



Carry out following work:

- Remove wiper arms ⇒ Electrical system; Rep. gr. 92 ; Windscreen wiper system; Removing and installing windscreen wiper system .
- Pull off entire length of seal -4- from plenum chamber covers -1- and -2-.



Caution

The windscreen -7- could be destroyed. Do NOT use a tool (screwdriver, wedge) to lever off the plenum chamber covers -1- and -2-. If you do, the windscreen -7- will be damaged and may subsequently crack.

- Lift plenum chamber covers -1- and -2- at edge of windscreen -7- with your hands.
- Pull plenum chamber covers -1- and -2-, starting from edge of windscreen -7-, upwards out of windscreen seal -6-.



- Remove left plenum chamber cover -2- from vehicle towards front (in direction of travel), taking care not to damage horn between windscreen and wing.
- Remove bracket for washer jets lines from right plenum chamber cover -1-.
- Remove right plenum chamber cover -1- from vehicle towards front, taking care not to damage horn between windscreen and wing.

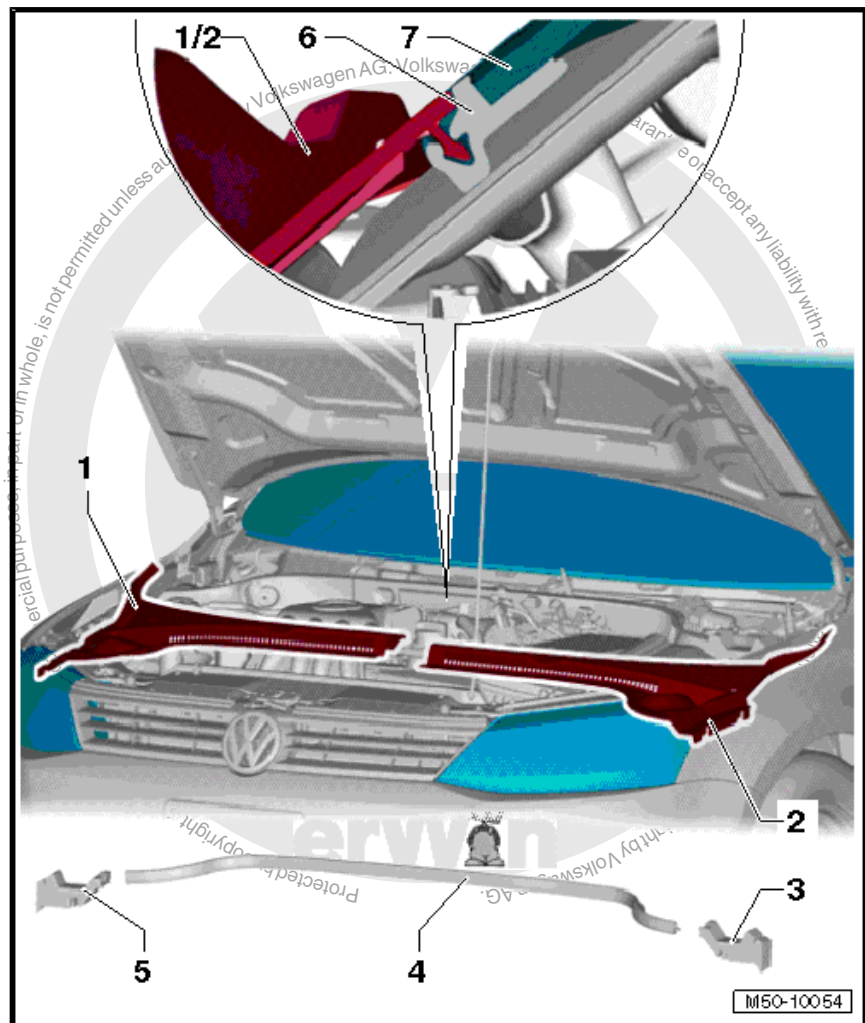
3.2.2 Installing



Caution

The windscreen -7- could be destroyed.

Banging plenum chamber covers -1- and -2- into the windscreen seal -6- may cause the windscreen -7- to crack.





Note

- ♦ *An insert is installed in windscreen seal of new windscreens. Remove this insert before installing plenum chamber cover.*
- ♦ *Push the plenum chamber cover into the windscreen seal by hand using only slight force. Never force it in by hitting or using tools.*

Carry out following work:

- Spray windscreen seal -6- with a soapy solution so that plenum chamber covers -1- and -2- are easier to press in.
- Push horn of right plenum chamber cover -1- between windscreen and wing.
- Make sure that the retaining clamps at side of right plenum chamber cover -1- are correctly seated in the flat plate of the upper cross beam.
- Position right plenum chamber covers -1- on windscreen seal -6- and press it into windscreen seal -6-, beginning in the middle and applying slight pressure.
- Mount the bracket for washer jets lines on right plenum chamber cover -1-.
- Push horn of left plenum chamber cover -2- between windscreen and wing.
- Ensure here also that side retaining clamps on left plenum chamber cover -2- are correctly seated in flat plate of upper cross member.
- Position left plenum chamber covers -2- on windscreen seal -6- and press it into windscreen seal -6-, beginning in the middle and applying slight pressure.
- Fit seal -3-.
- Install wiper arms ⇒ Electrical system; Rep. gr. 92 ; Windscreen wiper system; Removing and installing windscreen wiper system .

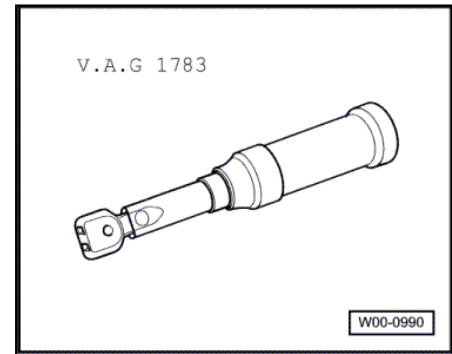


4 Noise insulation

4.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-





4.2 Assembly overview - noise insulation for combustion engines



Note

The removal and installation procedures may have to be modified slightly depending on engine fitted.

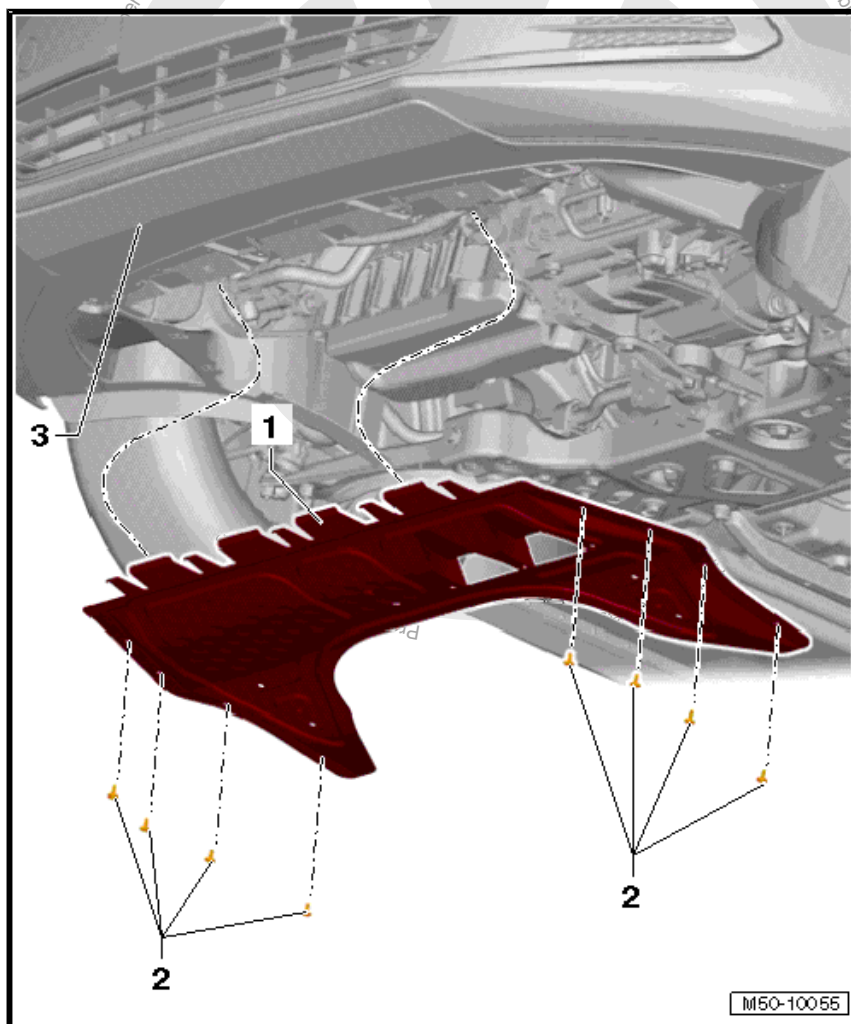
1 - Noise insulation

- ☐ Removing:
 - Remove bolts -2-.
 - Pull noise insulation towards the rear and out of front bumper cover -3-.

2 - Bolt

- ☐ Qty. 4 on each side.
- ☐ Specified torque: 2 Nm.

3 - Front bumper cover





4.3 Assembly overview - noise insulation for diesel engines



Note

The removal and installation procedures may have to be modified slightly depending on engine fitted.

1 - Noise insulation

- ☐ Removing:
- Remove bolts -2- and -3-
- Pull noise insulation towards the rear and out of front bumper cover -4-.

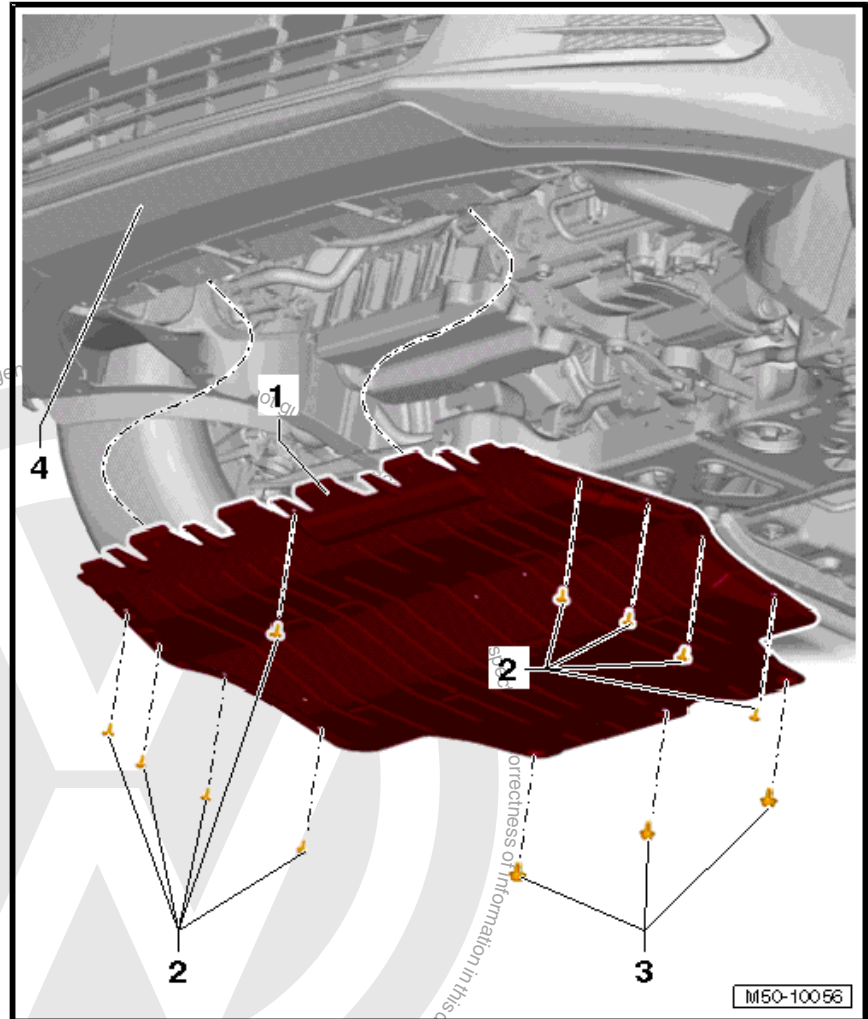
2 - Bolt

- ☐ Qty. 4 per side and one at front
- ☐ Specified torque: 2 Nm.

3 - Bolt

- ☐ Qty. 3.
- ☐ Specified torque: 6 Nm.

4 - Front bumper cover



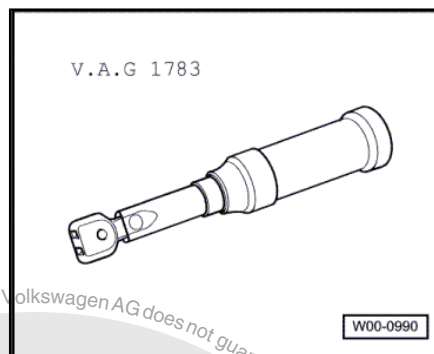


5 Underbody cladding

5.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-





5.2 Assembly overview - underbody panel



Note

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

1 - Underbody cladding

❑ Removing:

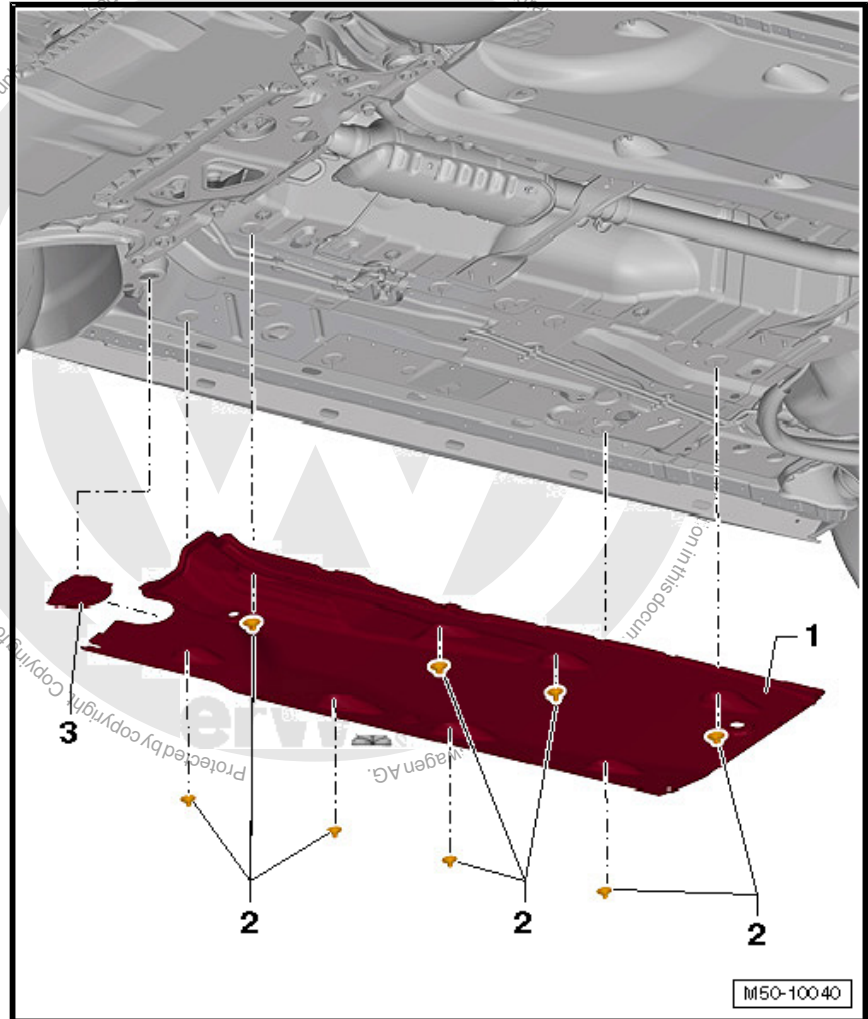
- Unscrew hexagon nuts -2-.
- Pull off underbody trim from cover -3- backwards and remove underbody trim.

2 - Nut

- ❑ Qty. 8.
- ❑ Specified torque: 2 Nm.
- ❑ Held in place by retaining lugs on underbody trim

3 - Cover

- ❑ Removing:
- Pull cover out of mounting





5.3 Rear right door underbody cladding



Note

Slight differences may be encountered on the rear right underbody trim depending on the vehicle model.

1 - Rear right door underbody cladding

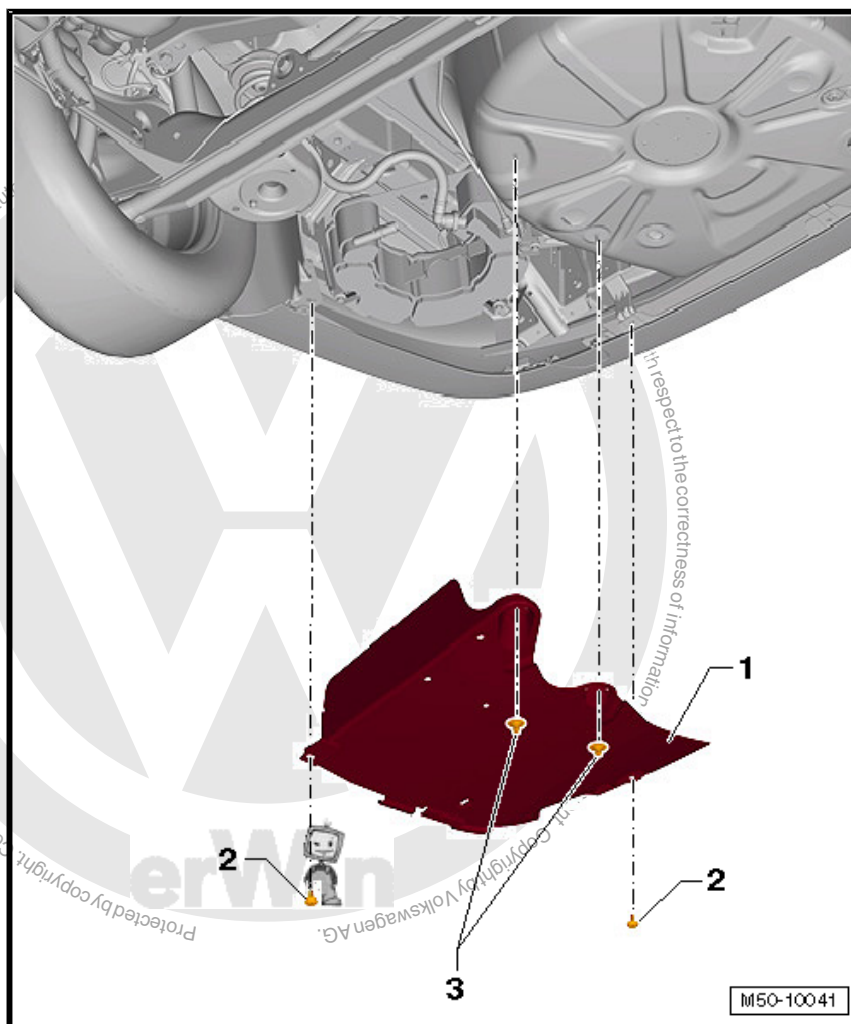
- ☐ Different versions, assignment ➔ Parts catalogue "ETKA"
- ☐ Removing:
 - Remove bolts -2-.
 - Unscrew nuts -3- and remove rear right underbody trim.

2 - Bolt

- ☐ Qty. 2 or 3 (depending on version of rear right underbody trim)
- ☐ Specified torque: 2.7 Nm

3 - Nut

- ☐ Qty. 2.
- ☐ Specified torque: 2 Nm
- ☐ Held in place by retaining lugs on rear right underbody trim



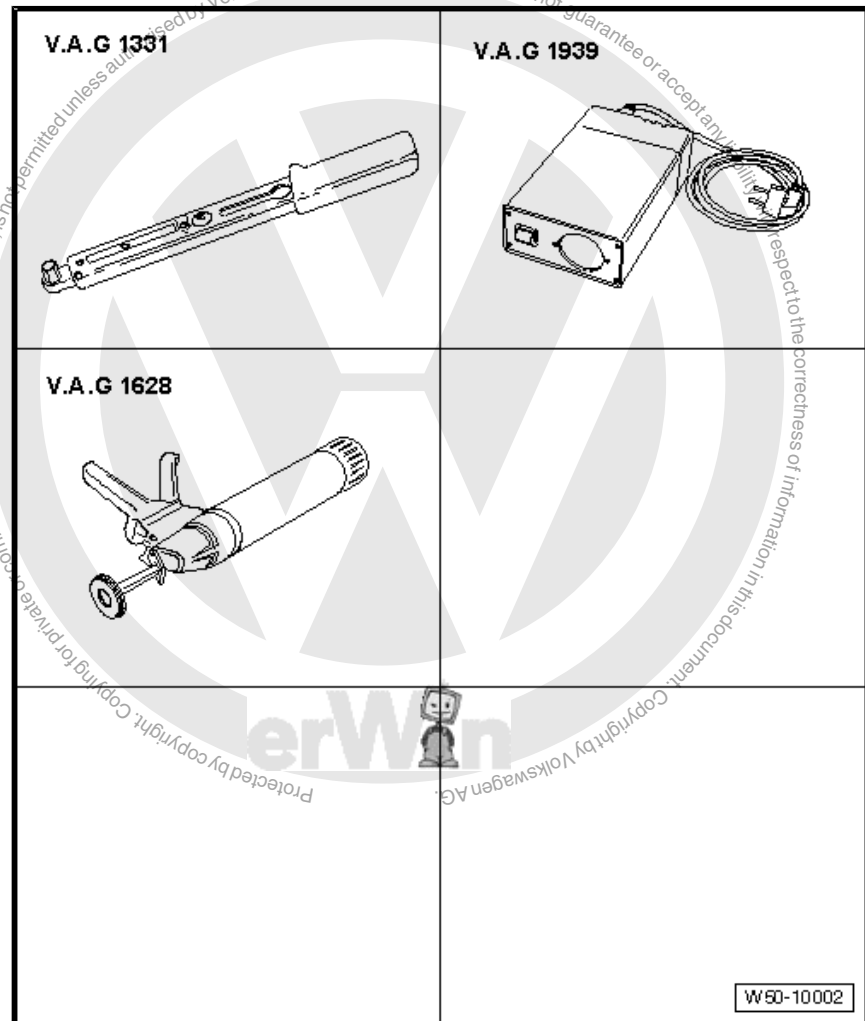


6 Cross panel

6.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-
- ◆ Cartridge heater - V.A.G 1939-
- ◆ Cartridge gun -V.A.G 1628-



6.2 Materials

- | | |
|-----------------------------|--------------------------------|
| ◆ 1K glass adhesive | DH 009 100 A2 ^{1) 2)} |
| ◆ Activator | D 181 801 A1 |
| ◆ Glass primer/paint primer | D 009 200 02 |
| ◆ Cleaning solution | D 009 401 04 |
| ◆ Primer applicator | D 009 500 25 |

¹⁾ Heat according to manufacturer's instructions, using cartridge heater -V.A.G 1939- .

²⁾ Observe minimum curing period ➔ [page 203](#) .



6.3 Assembly overview - bulkhead



Note

The bulkhead -1- is bolted and also bonded in place with PUR adhesive sealant -4-.

1 - Cross panel

- ❑ Removing:

- After removing bolts -3- cut through adhesive bead -4- using workshop equipment.

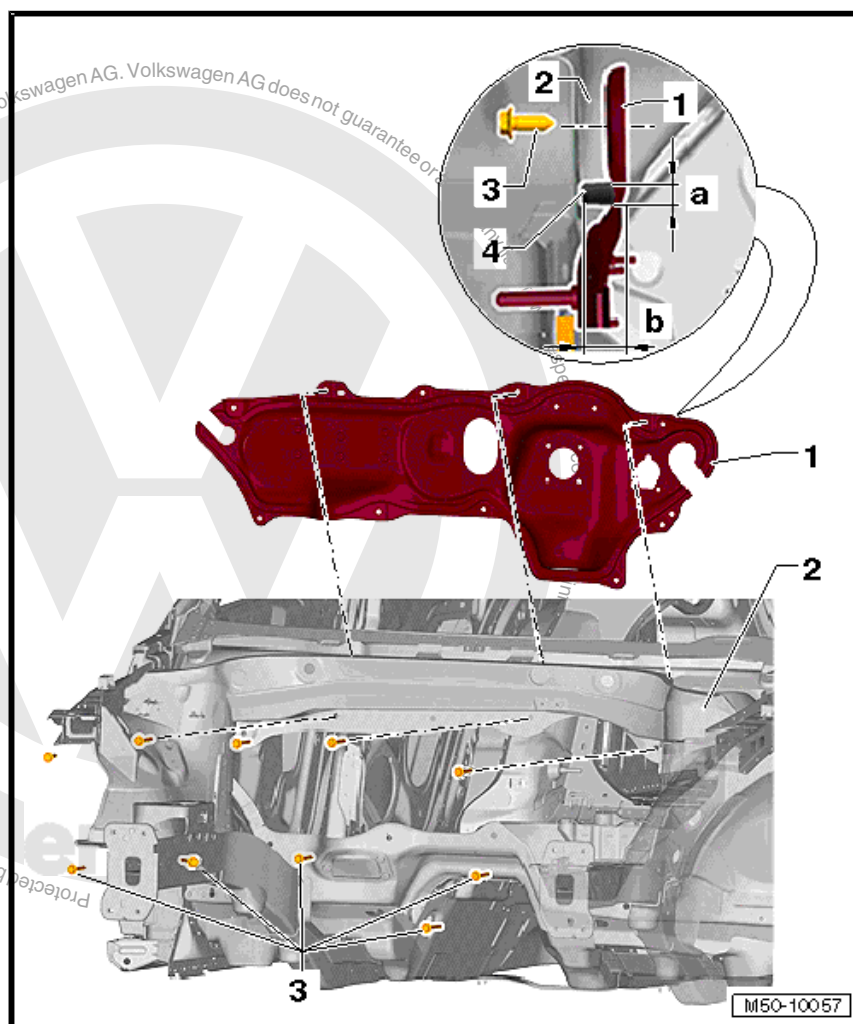
2 - Body flange

3 - PUR adhesive sealant

- ❑ Bead size: width -a- = 8 mm; height -b- = 10 mm
- ❑ Minimum curing period
⇒ [page 203](#).

4 - Bolt

- ❑ Qty. 10.
- ❑ Specified torque: 25 Nm



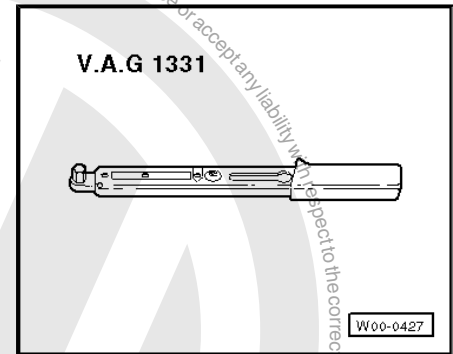


7 Tunnel cross-piece

7.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-





7.2 Assembly overview - tunnel cross-piece



Note

-Arrow- points in direction of normal travel.

1 - Front tunnel cross-piece

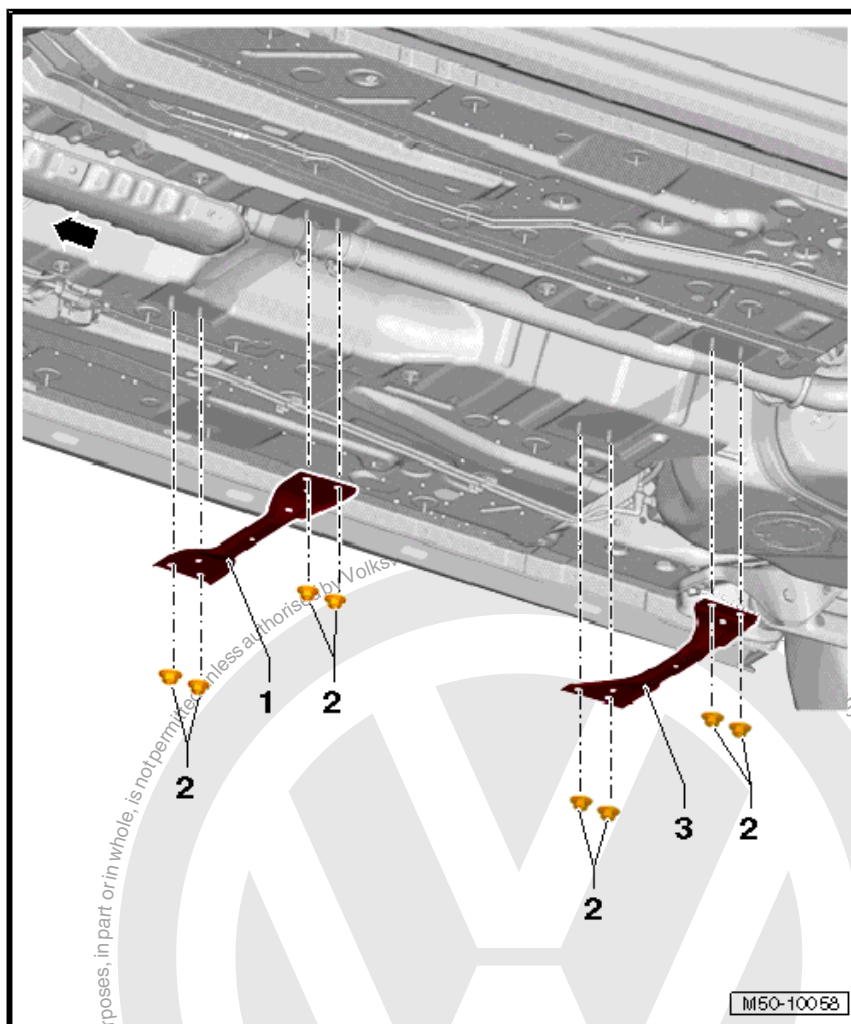
- ☐ Removing:
 - Unscrew hexagon nuts -2- (2 on each side).

2 - Hexagon nut

- ☐ Qty. 4 per tunnel cross-piece
- ☐ Specified torque: 20 Nm

3 - Rear tunnel cross-piece

- ☐ Removing:
 - Unscrew hexagon nuts -2- (2 on each side).





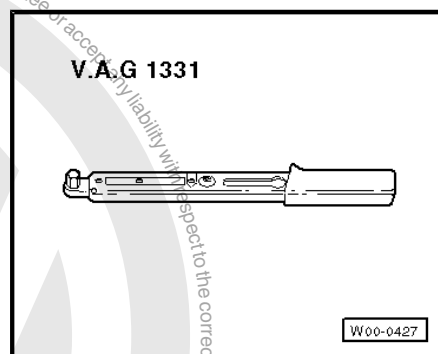
55 – Bonnet, rear lid

1 Bonnet

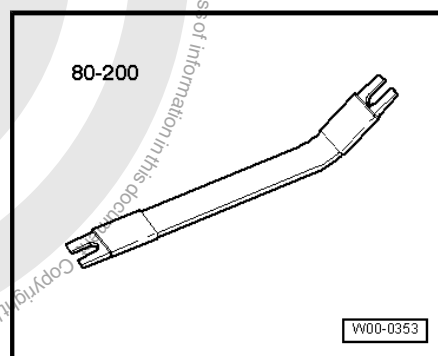
1.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-



- ◆ Removal lever -80 - 200-





1.2 Assembly overview - bonnet

1 - Bonnet

- ☐ Removing and installing
⇒ [page 33](#)
- ☐ Adjusting ⇒ [page 51](#)

2 - Adjustment buffer

3 - Seal in centre

- ☐ Left and right.

4 - Striker pin

- ☐ Removing and installing
⇒ [page 46](#)
- ☐ Adjusting ⇒ [page 53](#)

5 - Insulation

- ☐ Removing and installing
⇒ [page 37](#)

6 - Hinge

- ☐ Removing and installing
⇒ [page 34](#)
- ☐ Adjusting ⇒ [page 51](#)

7 - Support rod

- ☐ Removing and installing
⇒ [page 40](#)

8 - Lid lock

- ☐ Removing and installing
⇒ [page 43](#)
- ☐ Adjusting ⇒ [page 52](#)

9 - Bolt

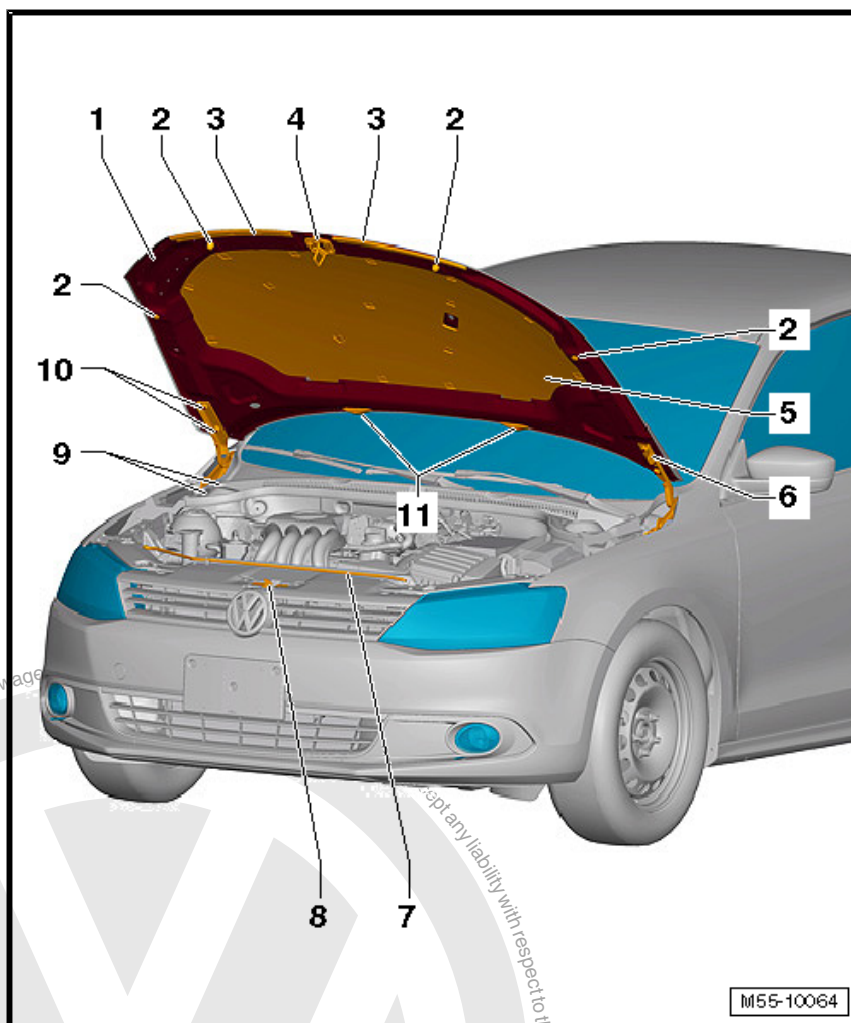
- ☐ Qty. 2 on each side.
- ☐ Specified torque: 22 Nm

10 - Nut

- ☐ Qty. 2 on each side.
- ☐ Specified torque: 22 Nm

11 - Washer jets

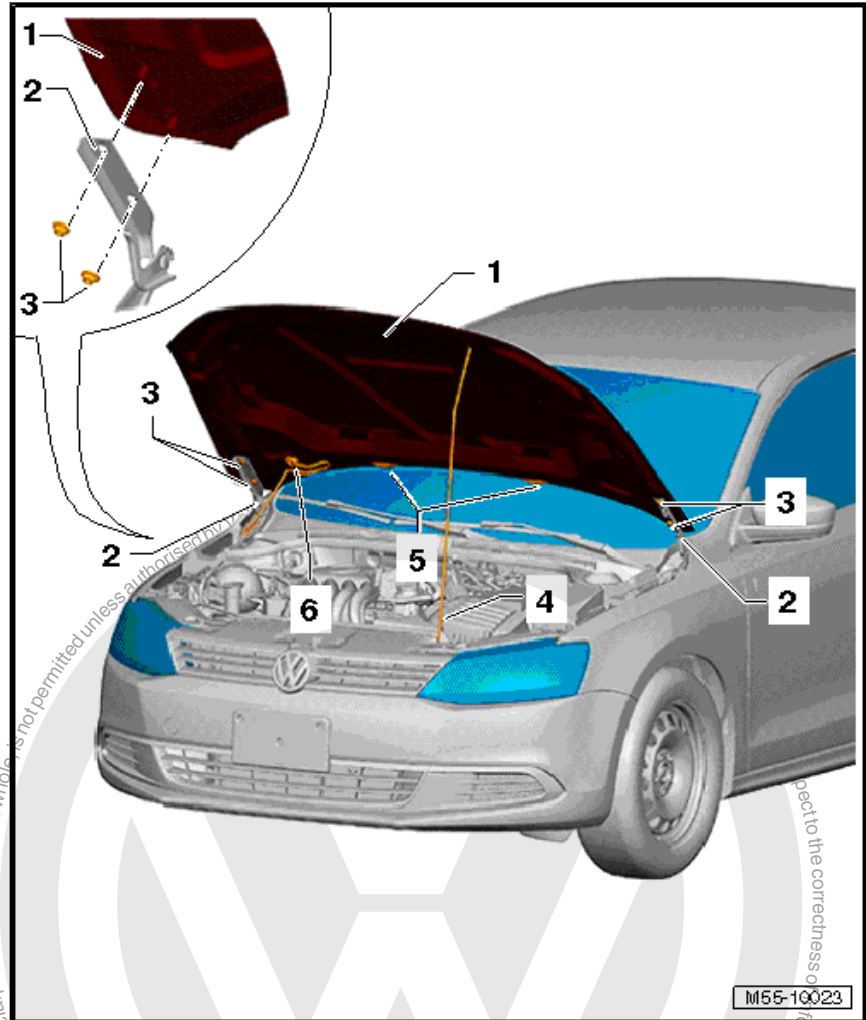
- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 92 ; Windscreen wiper system; Removing and installing washer jets for windscreen wiper system .





1.3 Removing and installing bonnet

1.3.1 Removing



Carry out following work:

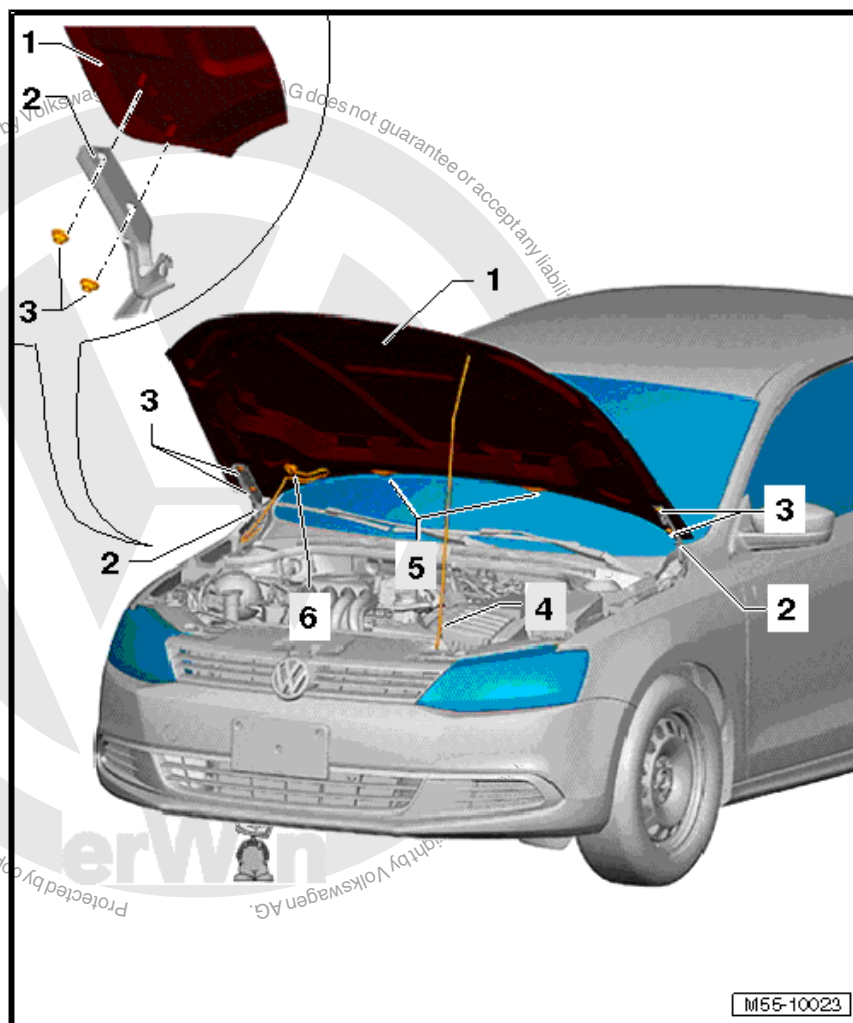
- Remove spray jets -5- ⇒ Electrical system; Rep. gr. 92 ; Window washer system; Removing and installing spray jets for window washer system .
- Unclip line -6- from bonnet -1-.
- Pull line -6- out of opening in bonnet -1-.
- Loosen nuts -3- on left and right hinges -2- (do not remove completely).

Further dismantling requires the assistance of a second mechanic.

- Remove support rod -4- from bonnet.
- Now, unscrew and remove nuts -3- and lift bonnet -1- out of hinges -2-.



1.3.2 Installing



Carry out following work:

Installation of bonnet -1- is carried out accordingly in reverse order of removal.



Note

Install the line -6- in a curve. If line is installed twisted it will kink.

Specified torque for nuts -3-: 22 Nm

– Adjusting bonnet -1- ➔ [page 51](#) .

1.4 Removing and installing bonnet hinge

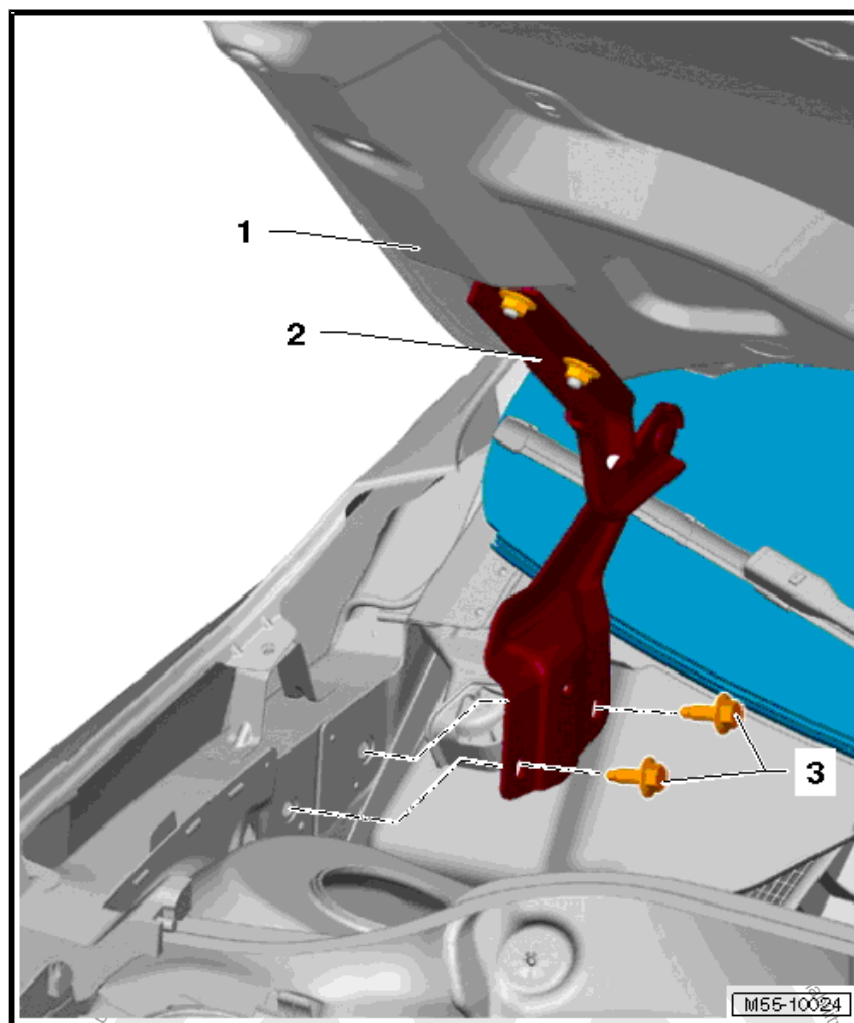


Note

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



1.4.1 Removing

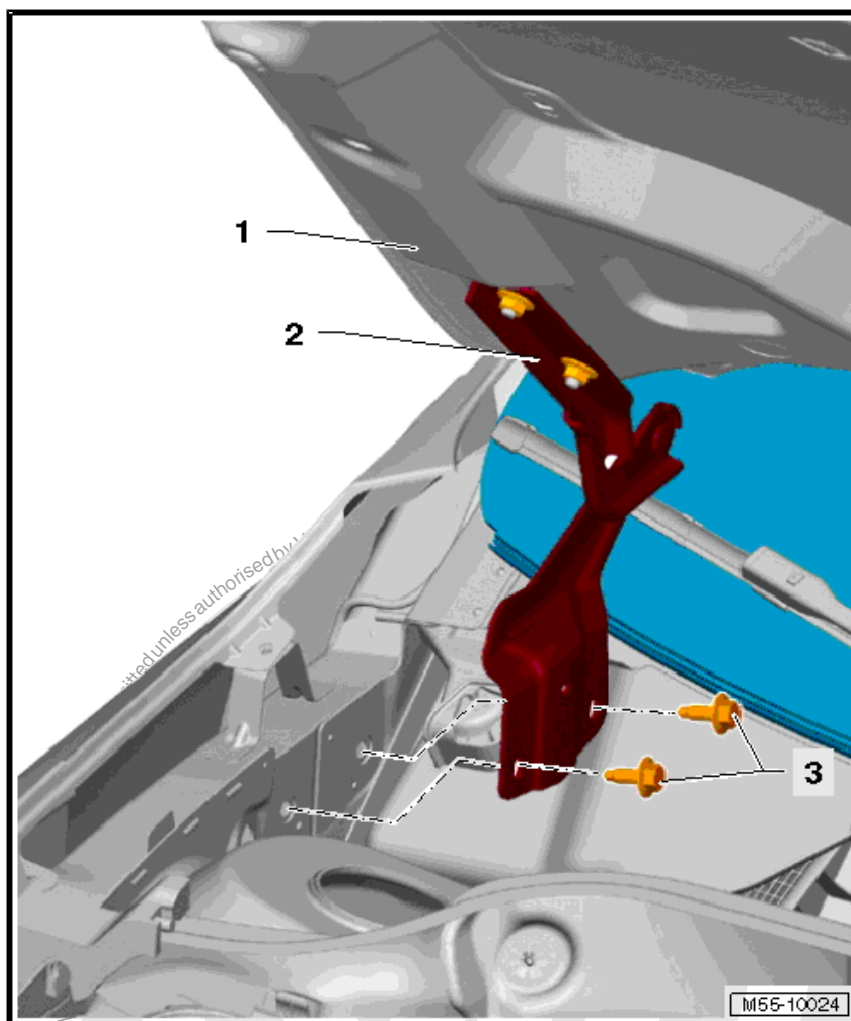


Carry out following work:

- Removing bonnet -1- ➔ [page 33](#)
- Removing plenum chamber cover ➔ [page 17](#) .
- Remove bolts -3-.
- Pull off hinge -2-.



1.4.2 Installing



Carry out following work:

Installation of the hinge -2- is carried out in the reverse order of removal.

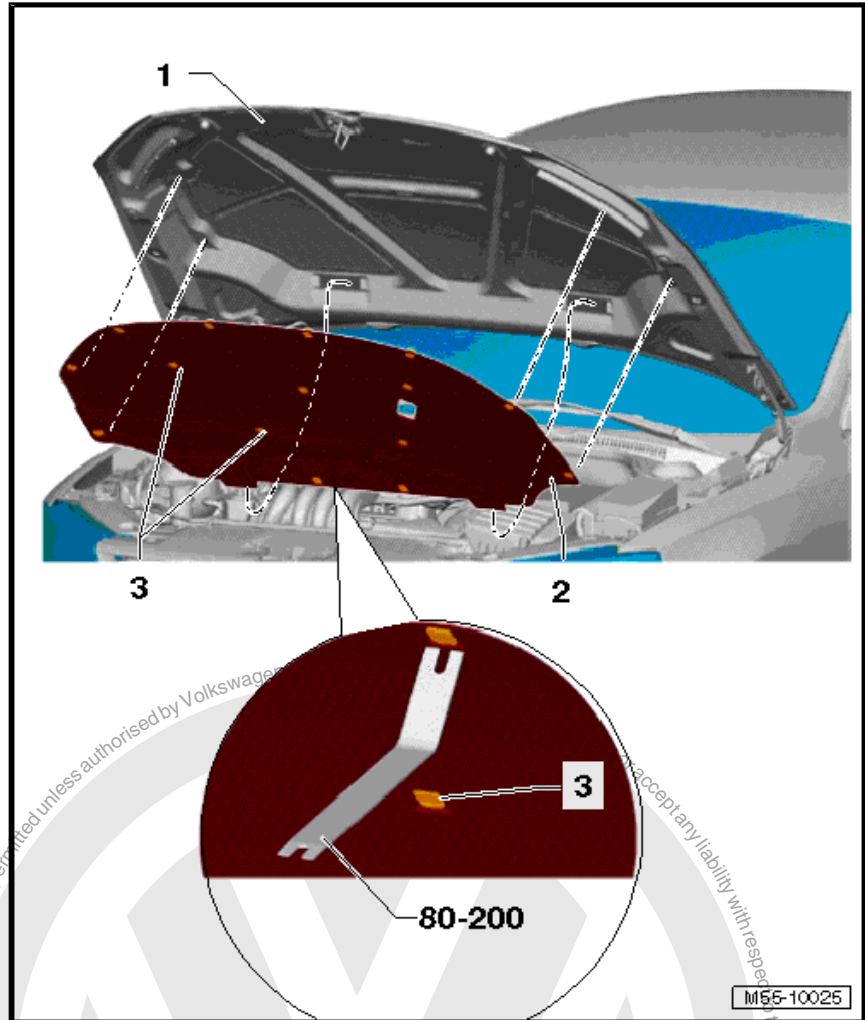
Specified torque for bolts -3-: 22 Nm.

- Install plenum chamber cover ⇒ [page 17](#) .
- Install bonnet -1- ⇒ [page 33](#) .



1.5 Removing and installing insulation

1.5.1 Removing

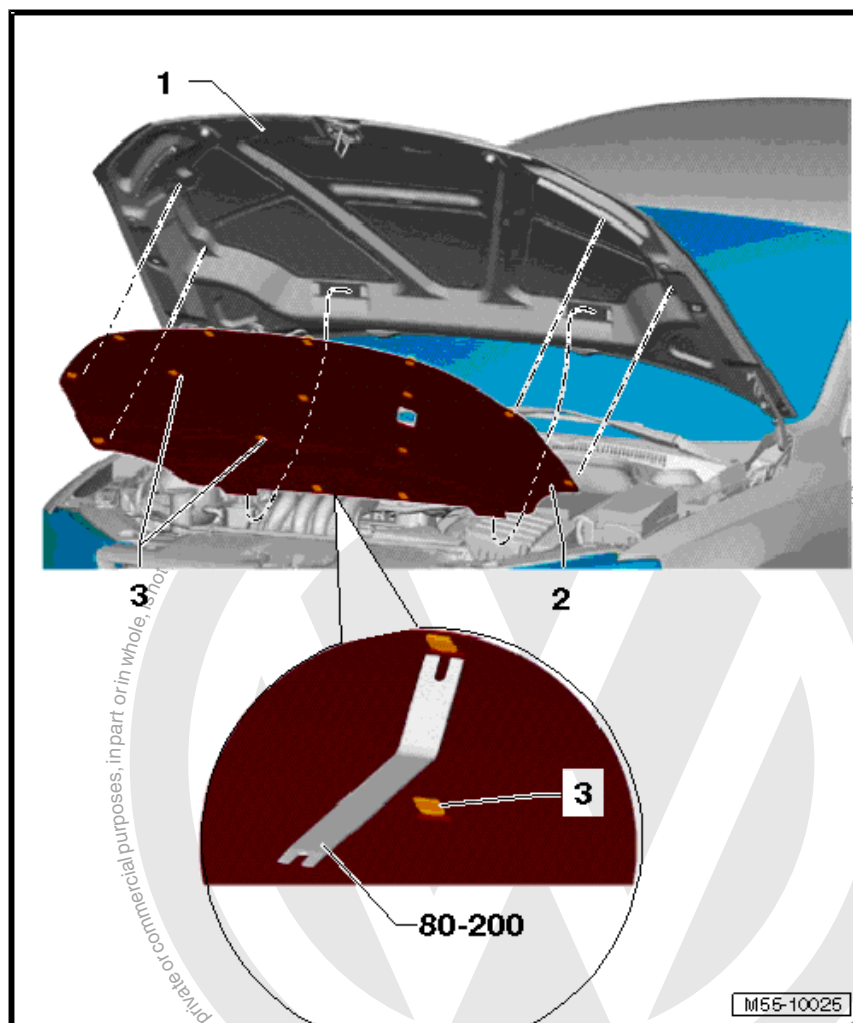


Carry out following work:

- Support bonnet -1- and remove support rod from bonnet.
- Lever out retaining clips -3- from bonnet -1- using removal lever -80 - 200- .
- Pull insulation -2- out of oblong holes in bonnet -1-.



1.5.2 Installing



Carry out following work:

- When installing insulation -2-, ensure that retaining clips -3- are fitted with the wider side facing outwards.
- Slide insulation -2- with fitting lugs into oblong holes of bonnet -1-.
- Insert all retaining clips -3- into bonnet -1-.



1.6 Assembly overview - seals

1 - Bonnet

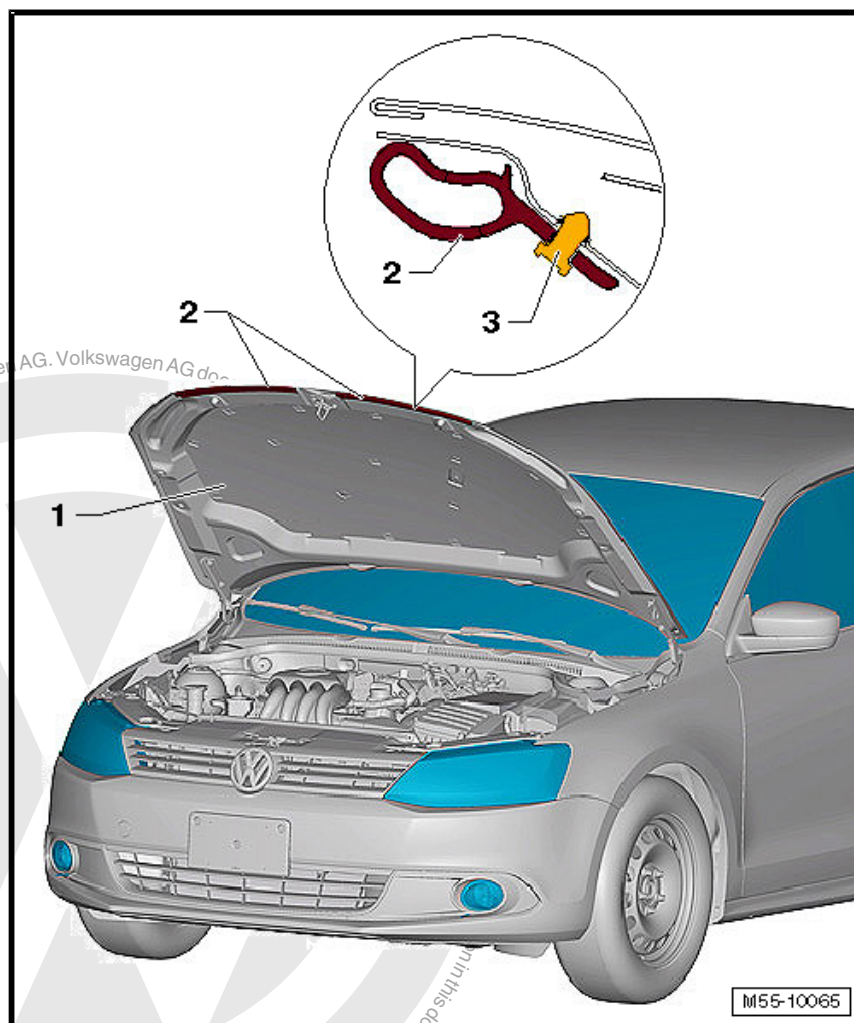
- ☐ Removing and installing
⇒ [page 33](#)
- ☐ Adjusting ⇒ [page 51](#)

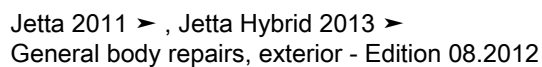
2 - Seal in centre

- ☐ Removing:
 - Pull off centre seal from bonnet.
- ☐ Installing:
 - Press centre seal into bonnet with clips - 3.

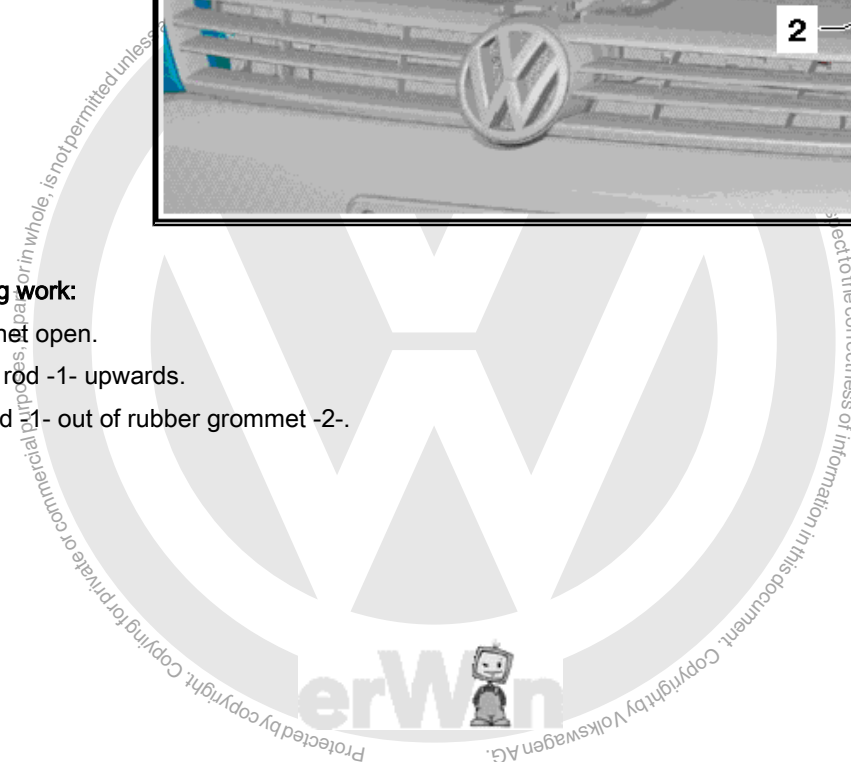
3 - Clip

- ☐ Before installing, check for damage and renew if necessary.





1.7.1 Removing



- Brace the bonnet open.
- Swing support rod -1- upwards.
- Pull support rod -1- out of rubber grommet -2-.



1.8 Assembly overview - bonnet lock and release components

1 - Striker pin

- ❑ Removing and installing
⇒ [page 46](#)
- ❑ Adjusting ⇒ [page 53](#)

2 - Release lever

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

3 - Cable

- ❑ From release lever -2- to cable coupling -4-

4 - Cable coupling

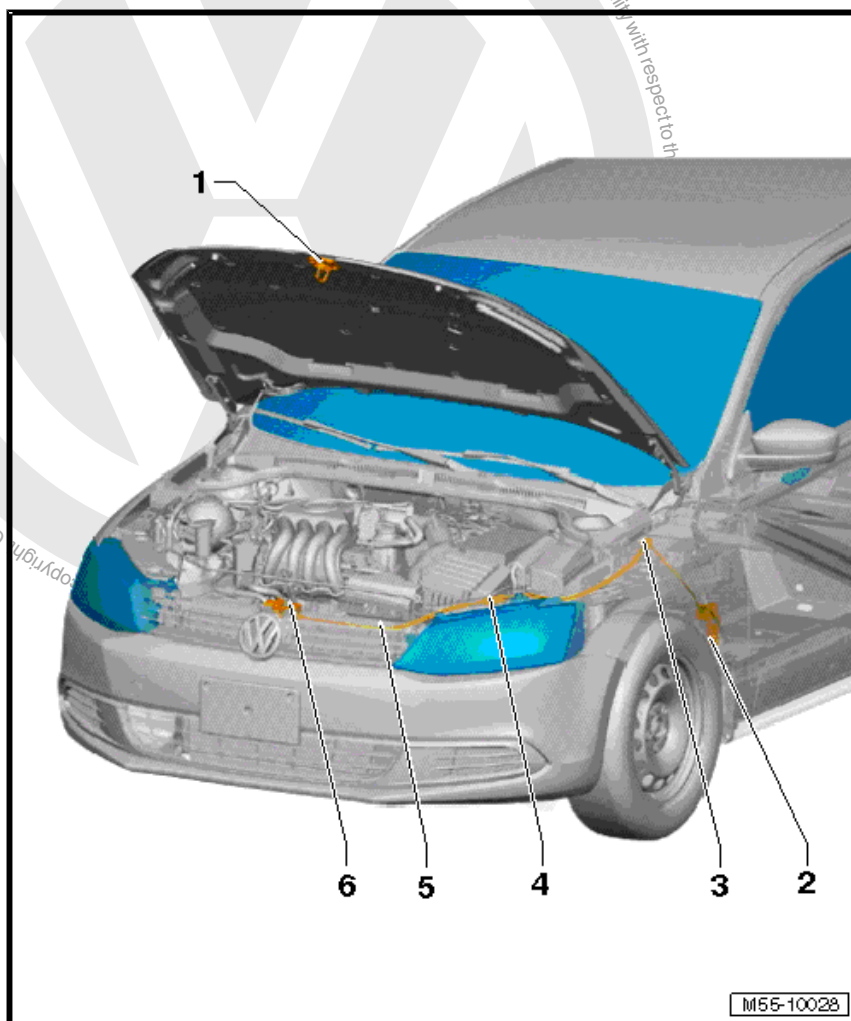
- ❑ Cable coupling is located above headlight on driver side
- ❑ Separating
⇒ [page 45](#) .

5 - Cable

- ❑ From cable coupling -4- to bonnet lock -6-
- ❑ Clipped into cable coupling

6 - Lid lock

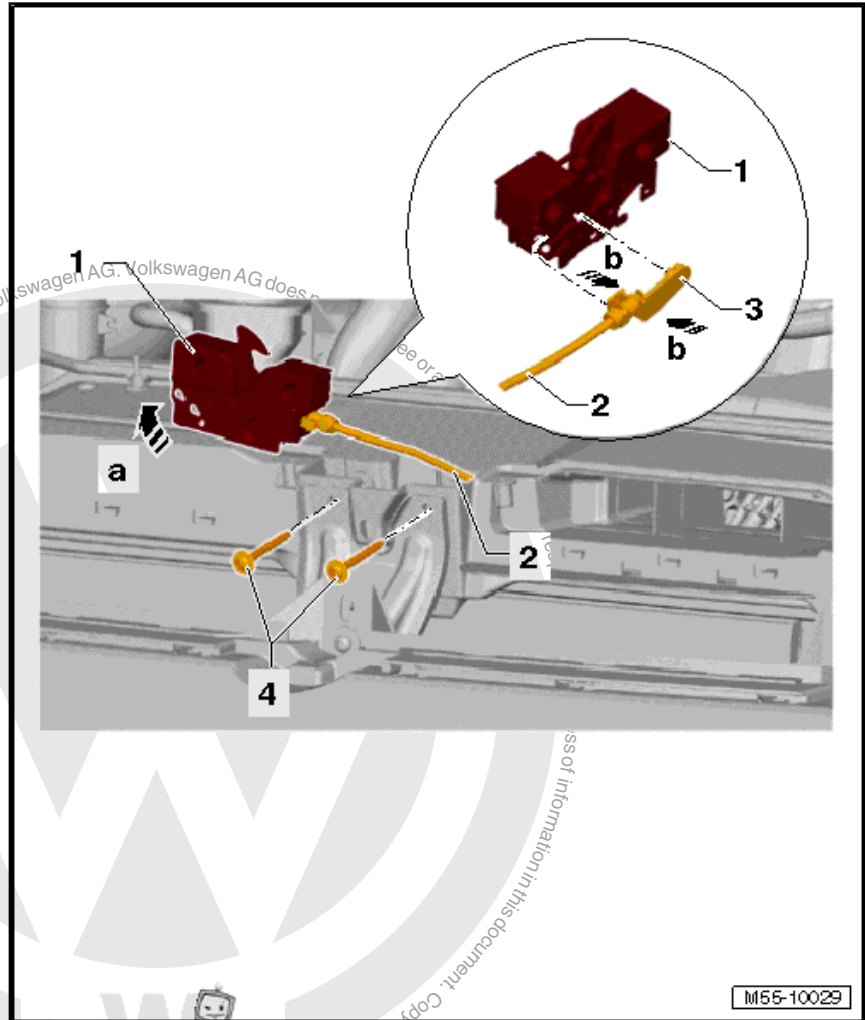
- ❑ Removing and installing lid lock ⇒ [page 43](#)
- ❑ Adjusting ⇒ [page 52](#)





1.9 Removing and installing lid lock

1.9.1 Removing



Carry out following work:

- Open bonnet.
- Remove radiator grille ⇒ [page 261](#) .
- Detach cable -2- from cable coupling ⇒ [page 45](#) .
- Detach connector for contact switch for bonnet -F266- if there is one.



Note

The connector is attached to top left-hand side of lock carrier.

- Remove bolts -4- from lock carrier and remove bonnet lock -1- upwards -arrow a-.

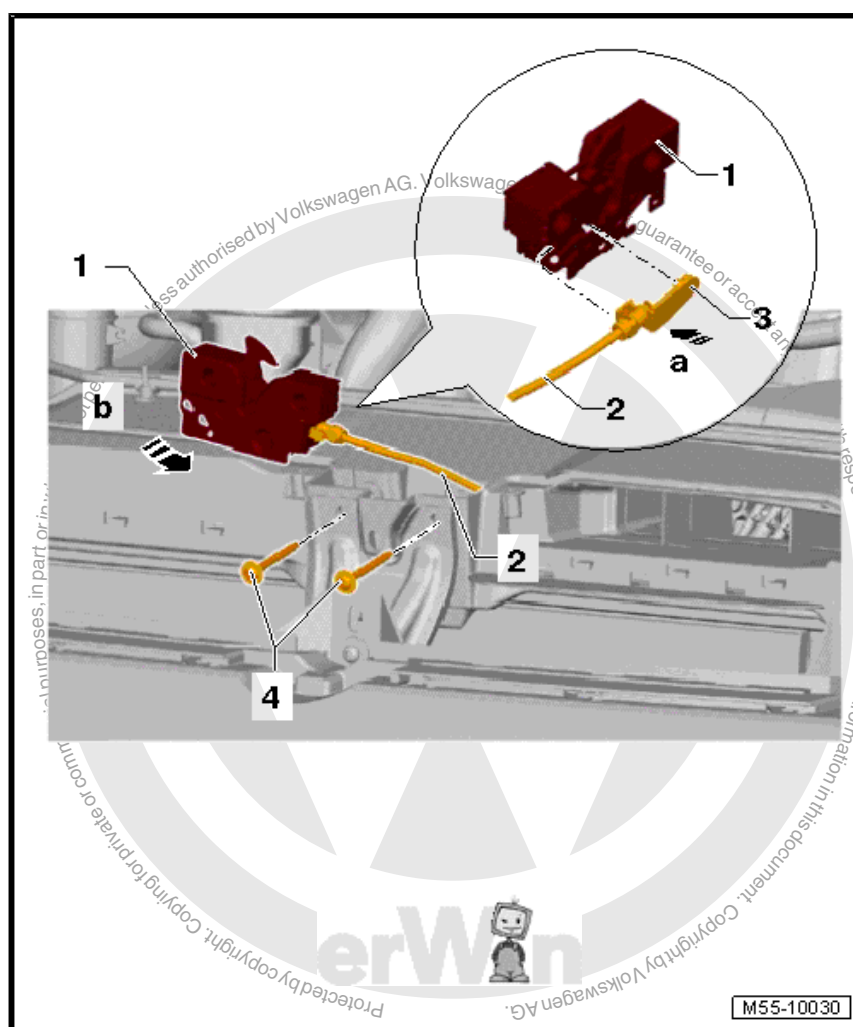


- Remove electric wire (if there is one) of contact switch for bonnet -F266- from lock carrier.
- Unclip bracket -3- by squeezing catch on bracket together -arrows b-.
- After releasing the catch on bracket, remove cable -2- from bonnet lock -1-.

i Note

Removing and installing bonnet contact switch -F266- ➔ Electrical system; Rep. gr. 96 ; Lights and switches in engine compartment; Removing and installing bonnet contact switch F266 -F266- .

1.9.2 Installing



Carry out following work:

- Attach cable -2- to bonnet lock -1- and clip bracket -3- into bonnet lock -1- -arrow a-.
- Thread electric wire (if there is one) of contact switch for bonnet -F266- into lock carrier.
- Insert bonnet lock -1- into lock carrier -arrow b-.

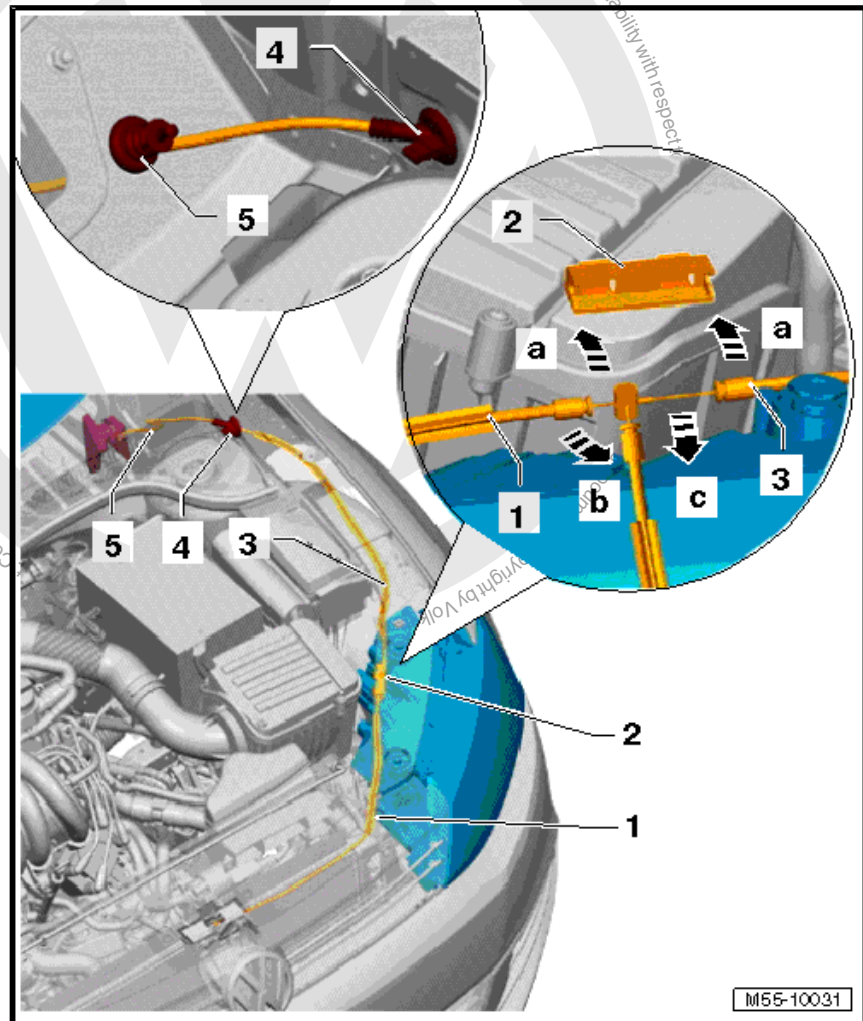


- Screw in bolts -4-.

Specified torque for bolts -4-: 12 Nm.

- Attach connector for contact switch for bonnet -F266- if there is one.
- Fit cable -2- to cable coupling ➔ [page 45](#) .
- Adjust bonnet lock ➔ [page 52](#) .
- Install radiator grille ➔ [page 261](#) .
- Before closing bonnet, check function of release lever and release cable.

1.10 Detaching release cable



Carry out following work:

- Open bonnet.
- Unclip cable coupling cover -2- above driver-side headlight from lock carrier.
- Remove cover -2- from cables -1- and -3- -arrows a-.
- Turn cable -1- by 90° -arrow b- and remove cable -1- in -direction of arrow c- from the cable mounting -2-.



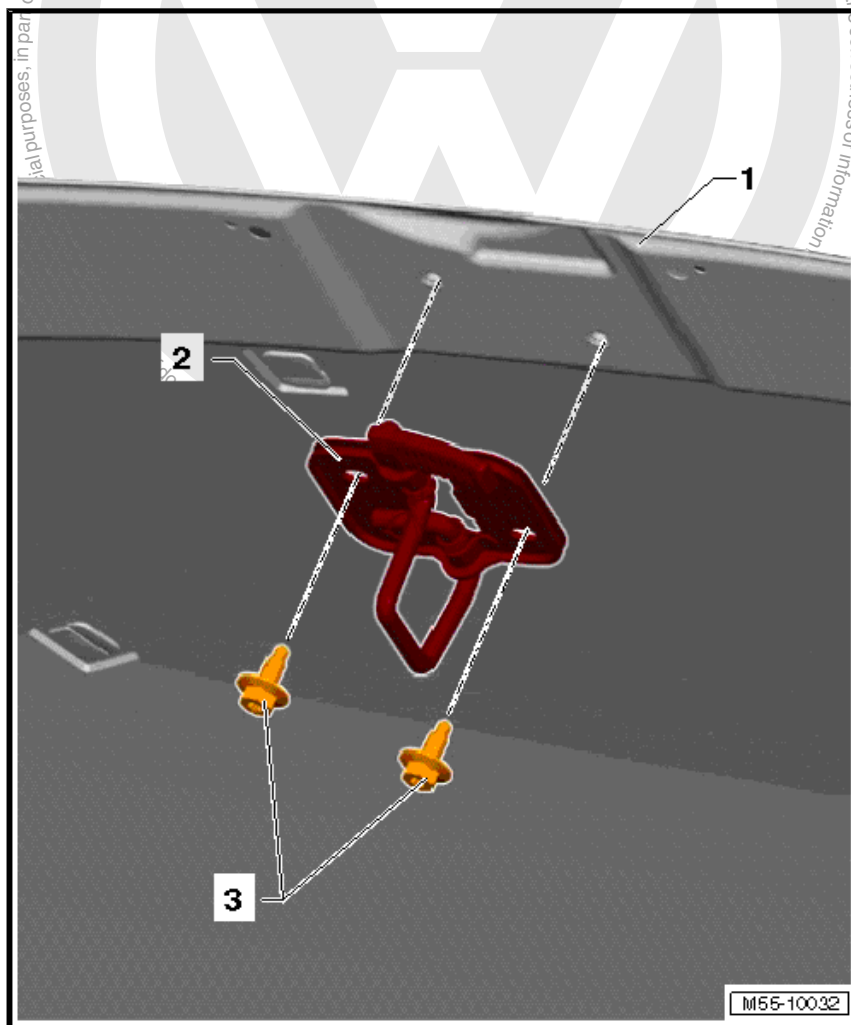
Note

When installing cable -3-, ensure that grommets -4- and -5- are fitted correctly and securely.

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

1.11 Removing and installing striker pin

1.11.1 Removing

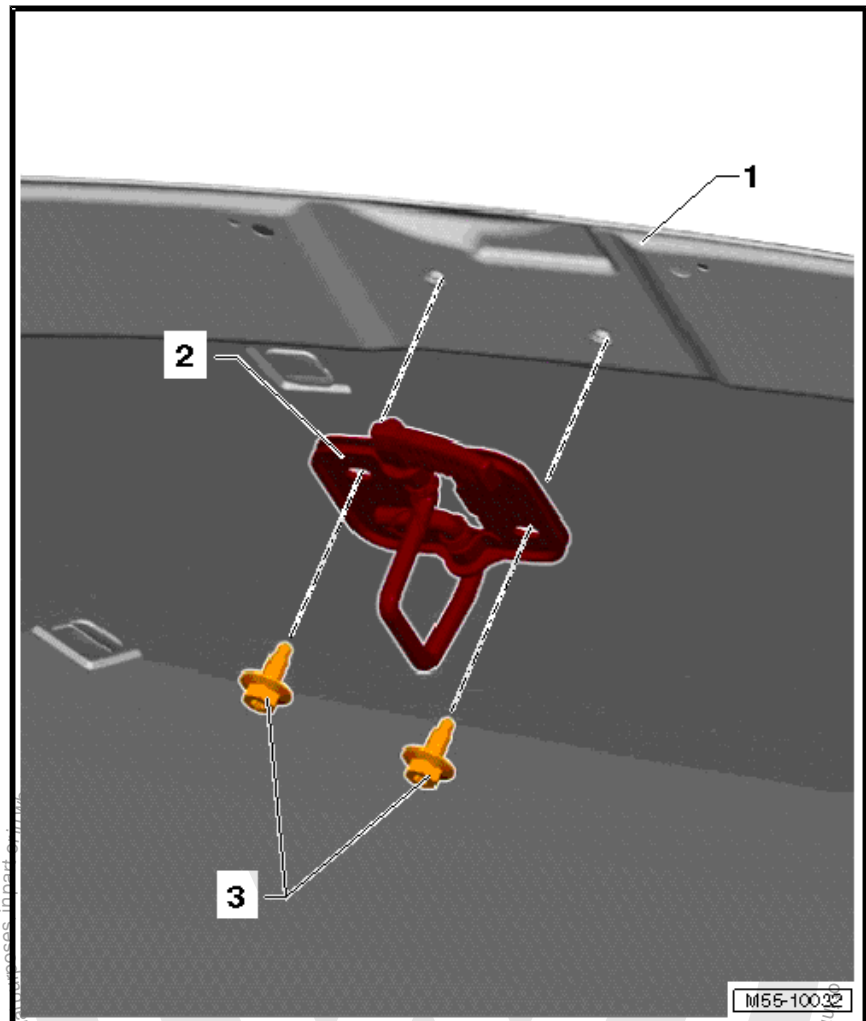


Carry out following work:

- Open bonnet -1-.
- Remove bolts -3-.
- Remove striker pin -2- from bonnet -1-.



1.11.2 Installing



Carry out following work:

Installation of the striker pin -2- is carried out in the reverse order of removal.

Specified torque for bolts -3-: 10 Nm.

- Adjusting striker pin ➔ [page 53](#) .



1.12 Assembly overview - release lever and mounting bracket

1 - Mounting bracket

2 - Cable

☐ Installing:

- Insert ball of cable into holder on mounting bracket.
- Clip cable into mounting bracket

3 - Expanding nut

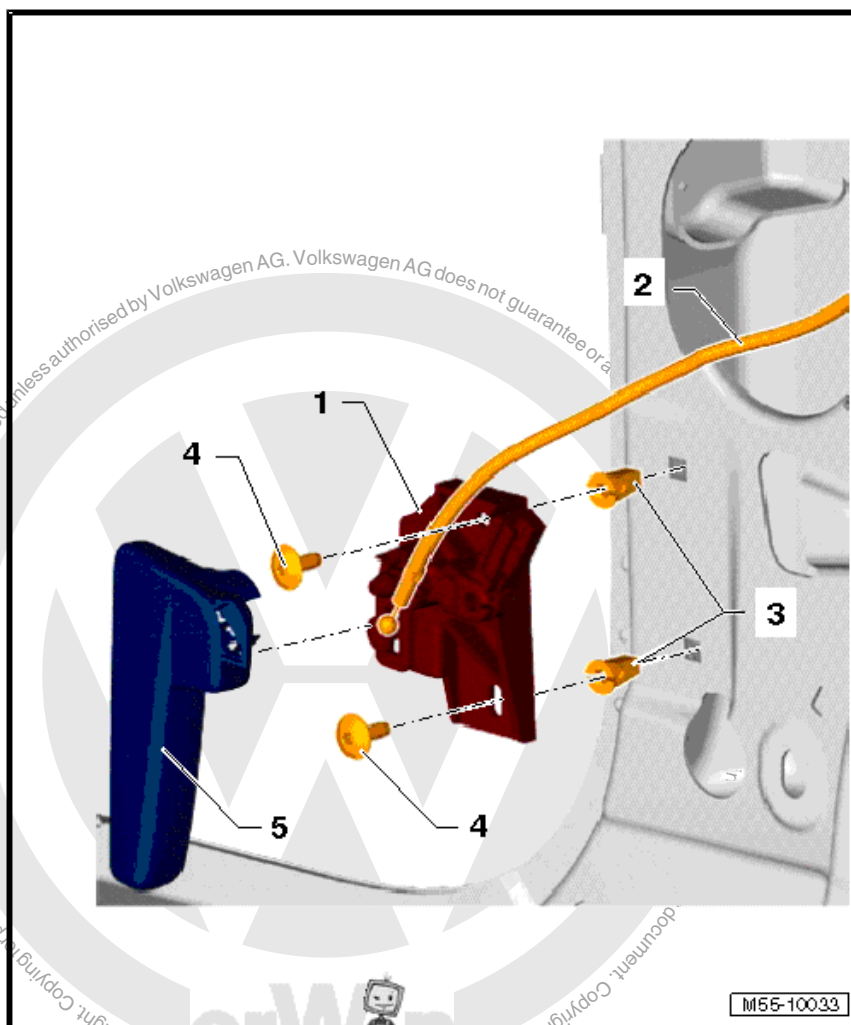
- ☐ Qty. 2.

4 - Bolt

- ☐ Qty. 2.
- ☐ Specified torque: 1.5 Nm

5 - Release lever

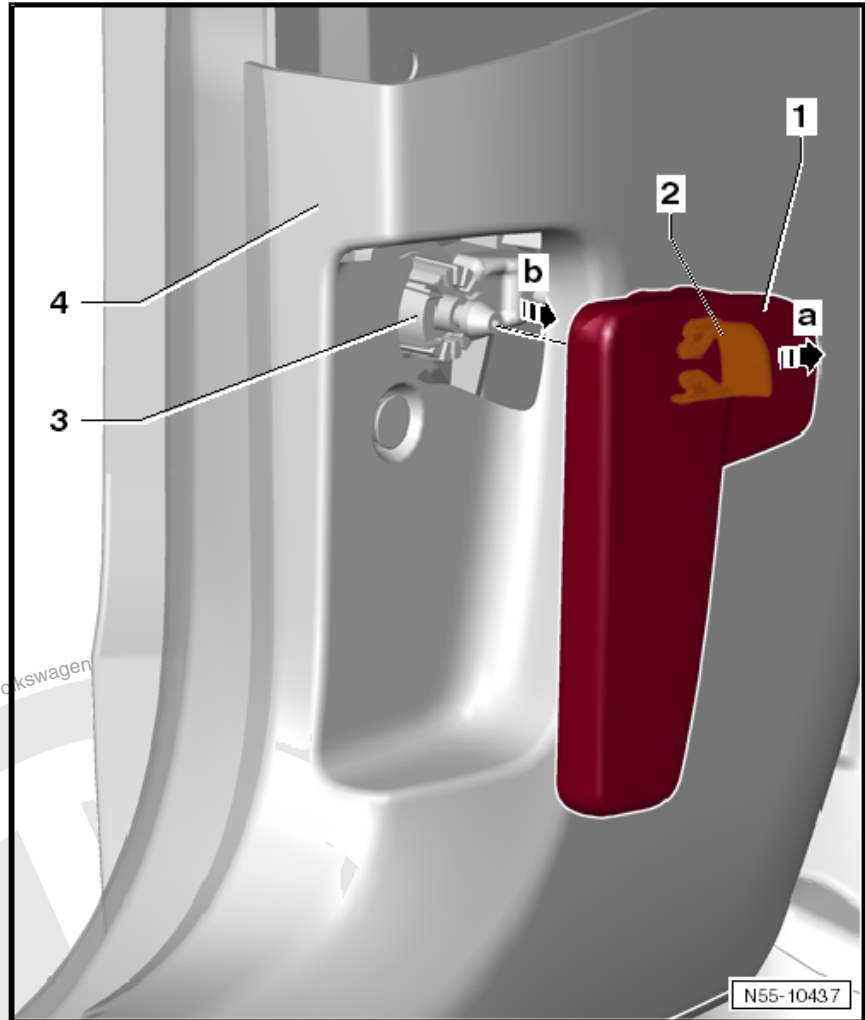
- ☐ Removing and installing
⇒ [page 49](#)





1.13 Removing and installing release lever

1.13.1 Removing



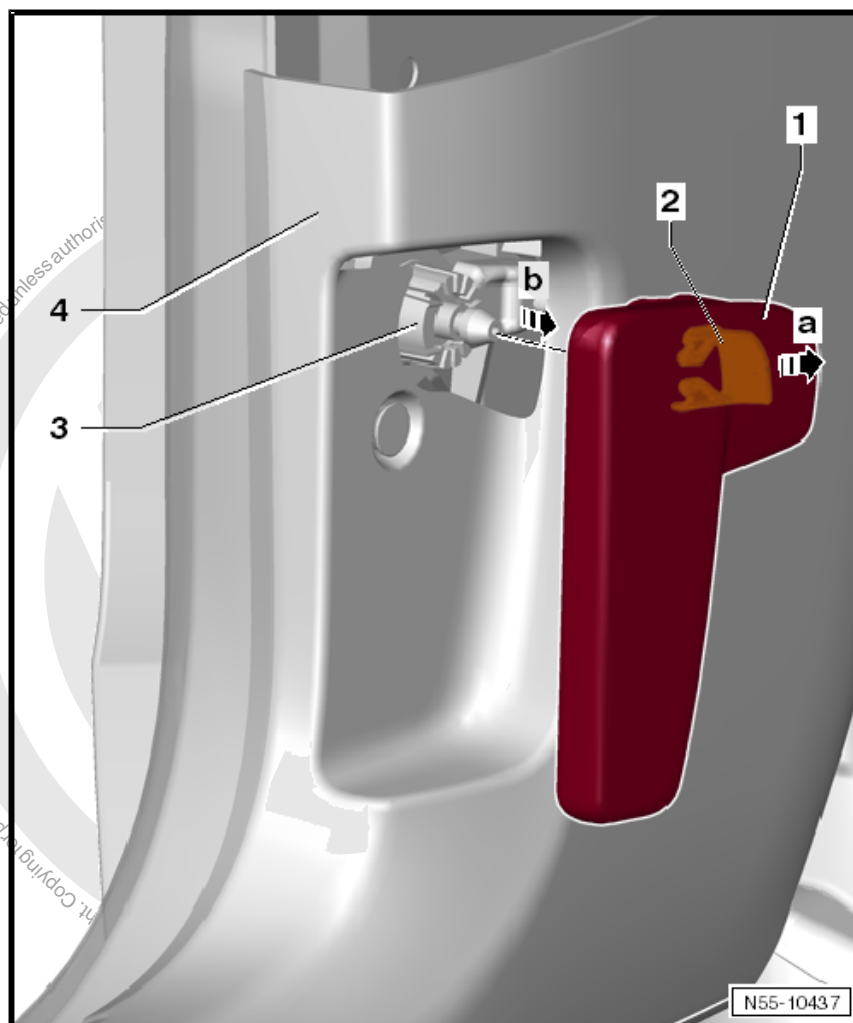
Carry out following work:

- Pull release lever -1- to release bonnet.
- Insert a small screwdriver in gap between release lever -1- and retaining clip -2-.
- Lever retaining clip -2- out of operating lever -1- -arrow a- and pull operating lever off mounting bracket -3- -arrow b-.

For further work on mounting bracket -3-, A-pillar lower trim -4- must be removed ➔ General body repairs, interior; Rep. gr. 70 ; Pillar and side panel trim .



1.13.2 Installing



Carry out following work:

- Lower A-pillar trim -4- has been fitted.
- Push retaining clip -2- into release lever -1-.
- Press retaining lever -1- onto mounting bracket -3-.
- Before closing bonnet, check function of release lever and release cable.

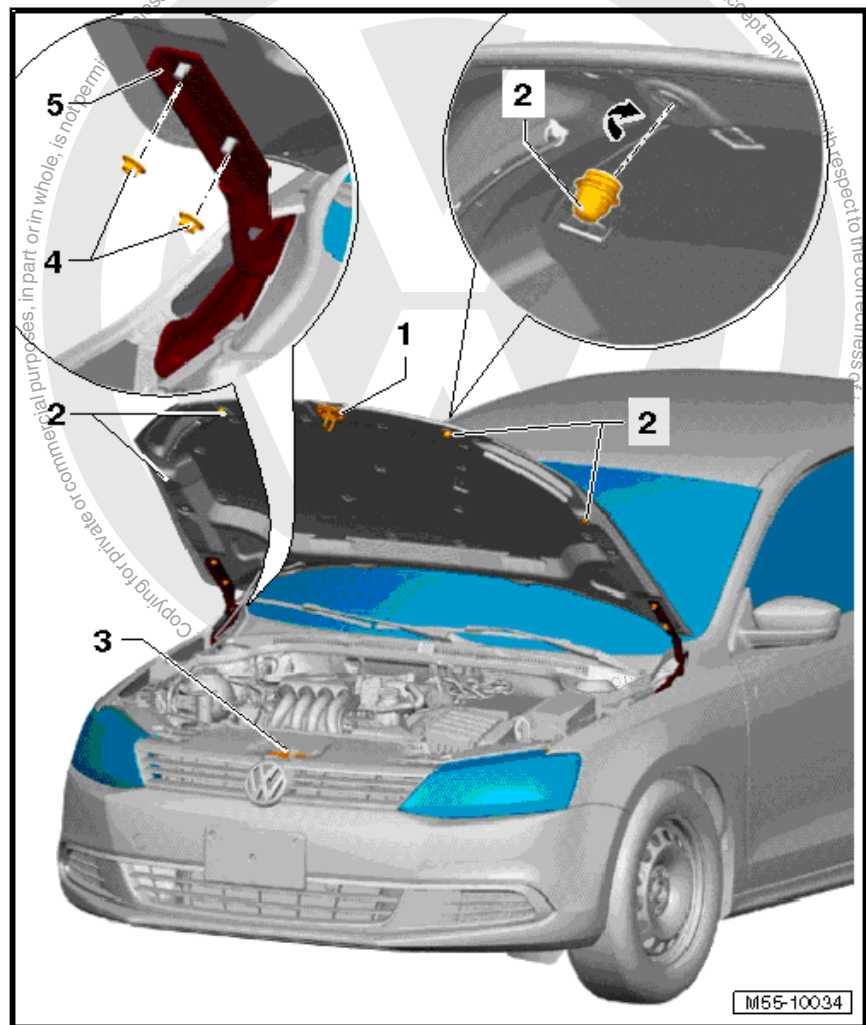


1.14 Adjusting bonnet



Note

- ◆ Vehicle must be standing on its wheels to enable bonnet to be adjusted.
- ◆ The adjustment buffers -2- on the left and right are not a means of adjustment. They have the function of stabilising and damping the bonnet.
- ◆ The bonnet is adjusted correctly if the gaps/shut lines are even all around, the door is not too deep or does not protrude and all contours align when the door is closed.
- ◆ The bonnet must engage into the bonnet lock without excessive force.
- ◆ Nuts -4- are not removed, only loosened.



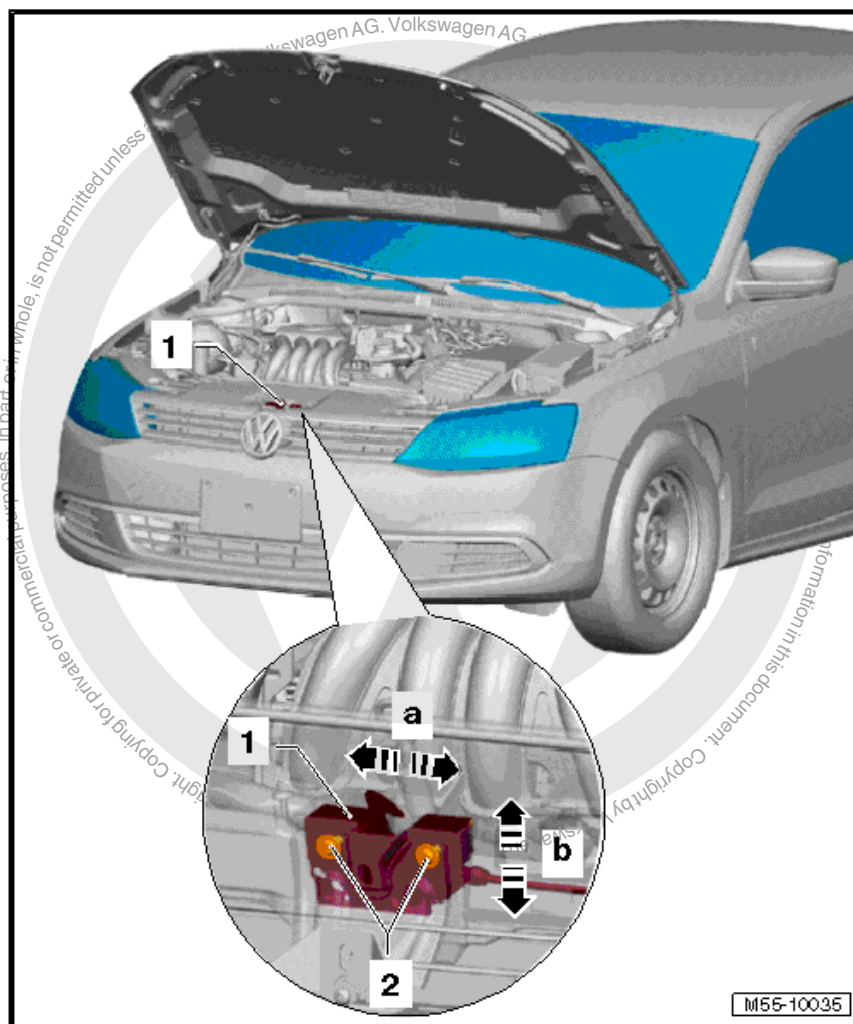
Carry out following work:

- Remove striker pin -1- ➔ [page 46](#) .
- Bonnet can be centred between wings by loosening (not removing) hexagon nuts -4- on left and right bonnet hinges -5-.
- Ensure that gaps are uniform ➔ Body Repairs; Rep. gr. 00 ; Technical data; Body panel gaps/shut lines; Body - front .



- After adjusting, carry out corrosion protection measures on bonnet hinges -5- and hexagon nuts -4-.
- Turn adjusting buffer -2- to adjust -arrow-.
- After bonnet has been adjusted, the striker pin -1- can be re-installed and adjusted ➤ [page 53](#) .
- Front part of bonnet can be adjusted in height to wings by means of bonnet lock -3- ➤ [page 52](#) .

1.14.1 Adjusting lid lock



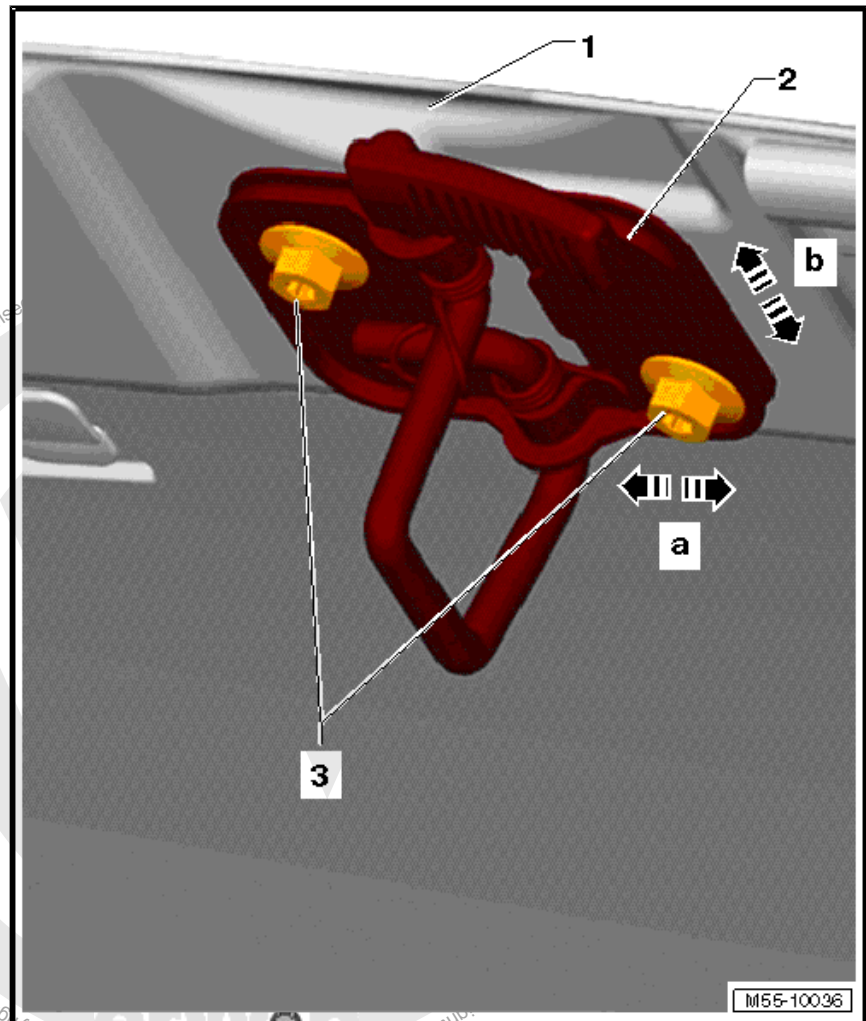
Carry out following work:

- Remove radiator grille ➤ [page 261](#) .
- Slacken bolts -2- to adjust bonnet lock -1- to bonnet laterally -arrows a- and vertically -arrows b- ➤ Body Repairs; Rep. gr. 00 ; Body panel gaps/shut lines; Body - front

Specified torque for bolts -2-: 12 Nm.



1.14.2 Adjusting striker pin



Carry out following work:

- Loosen bolts -3-.
- Striker pin -2- can now be adjusted in oversized holes.

Specified torque for bolts -3-: 10 Nm.

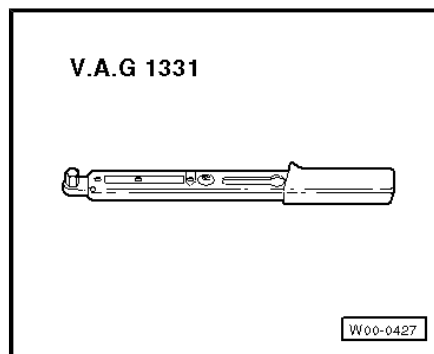


2 Rear lid

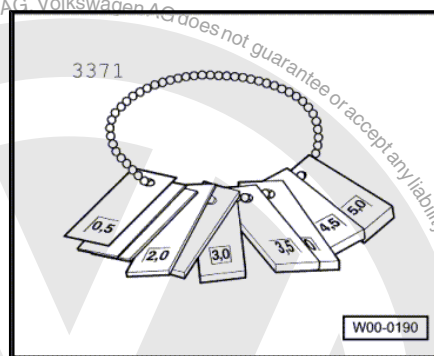
2.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-



- ◆ Setting gauge -3371-





2.2 Assembly overview - rear lid

1 - Rear lid

- ☐ Removing and installing
⇒ [page 55](#)
- ☐ Adjusting ⇒ [page 64](#)

2 - Wiring harness

3 - Adjustment buffer

- ☐ Left and right.
- ☐ Adjusting ⇒ [page 64](#)

4 - Lid lock

- ☐ Removing and installing
⇒ [page 66](#)
- ☐ With emergency re-
lease function
⇒ [page 66](#)

5 - Hinge

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

6 - Gas strut

- ☐ Removing and installing
⇒ [page 57](#)
- ☐ Releasing gas
⇒ [page 60](#)

7 - Striker plate

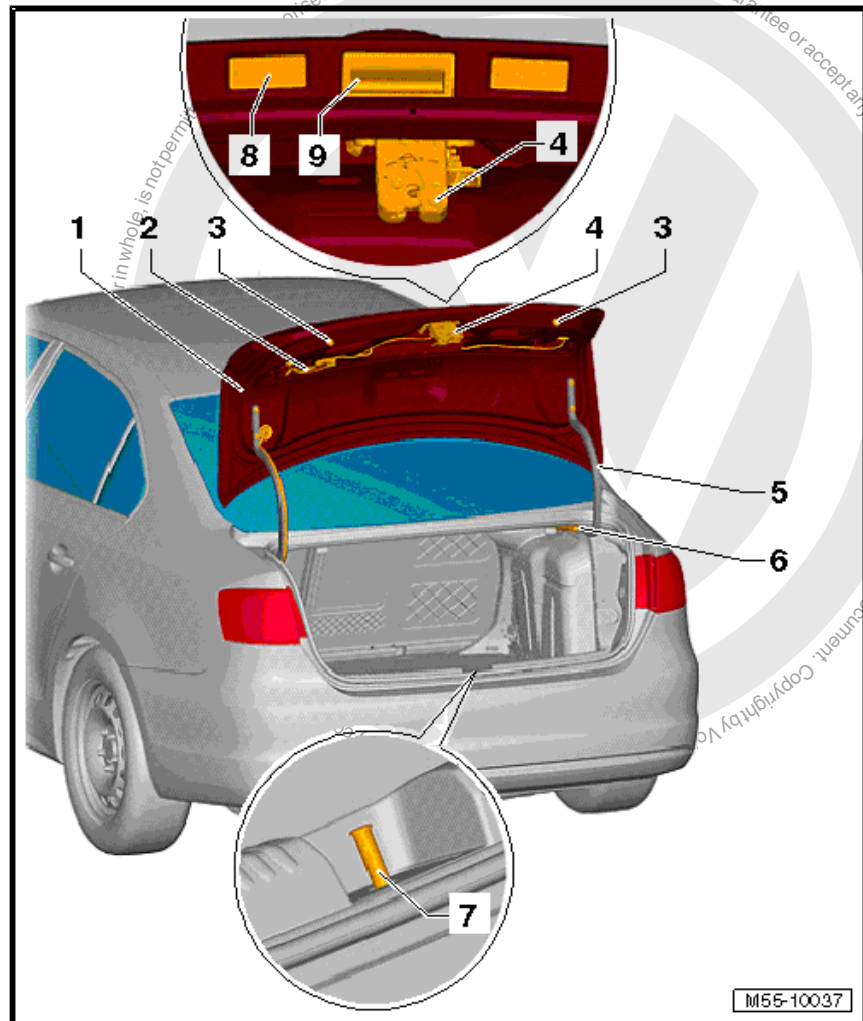
- ☐ Removing and installing
⇒ [page 63](#)
- ☐ Adjusting ⇒ [page 65](#)
- ☐ Assignment ⇒ Parts
catalogue "ETKA"

8 - Registration plate light

- ☐ Removing and installing
⇒ Electrical system;
Rep. gr. 94 ; Removing and installing registration plate lights .

9 - Button to release rear lid

- ☐ Removing and installing ⇒ [page 65](#)



2.3 Removing and installing rear lid

2.3.1 Removing

Carry out following work:

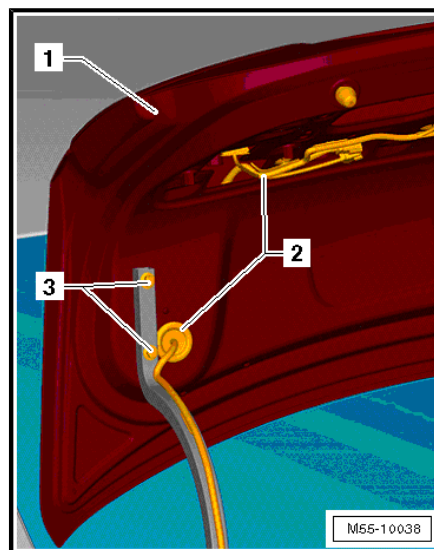
- Remove rear lid trim ⇒ General body repairs, interior; Rep.
gr. 70 ; Rear lid trim .
- Remove connectors of all installed electrical components.



- Thread electric cables/wire -2- together with rubber grommet out of rear lid -1-.
- Loosen bolts -3- on left and right hinges (do not unbolt completely).

Further dismantling requires the assistance of a second mechanic.

- Now, remove bolts -3- completely and then remove rear lid -1-.



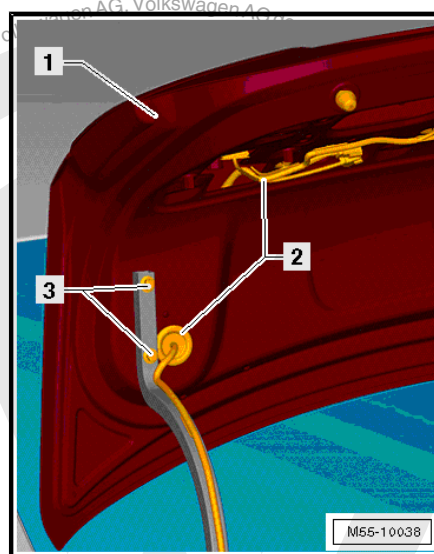
2.3.2 Installing

Carry out following work:

Installation of rear lid -1- is carried out in reverse order of removal.

Specified torque for bolts -3- 9 Nm

- Adjusting rear lid ➤ [page 64](#) .
- Before closing rear lid, check function of lid release components.





2.4 Assembly overview - gas strut

1 - Gas strut

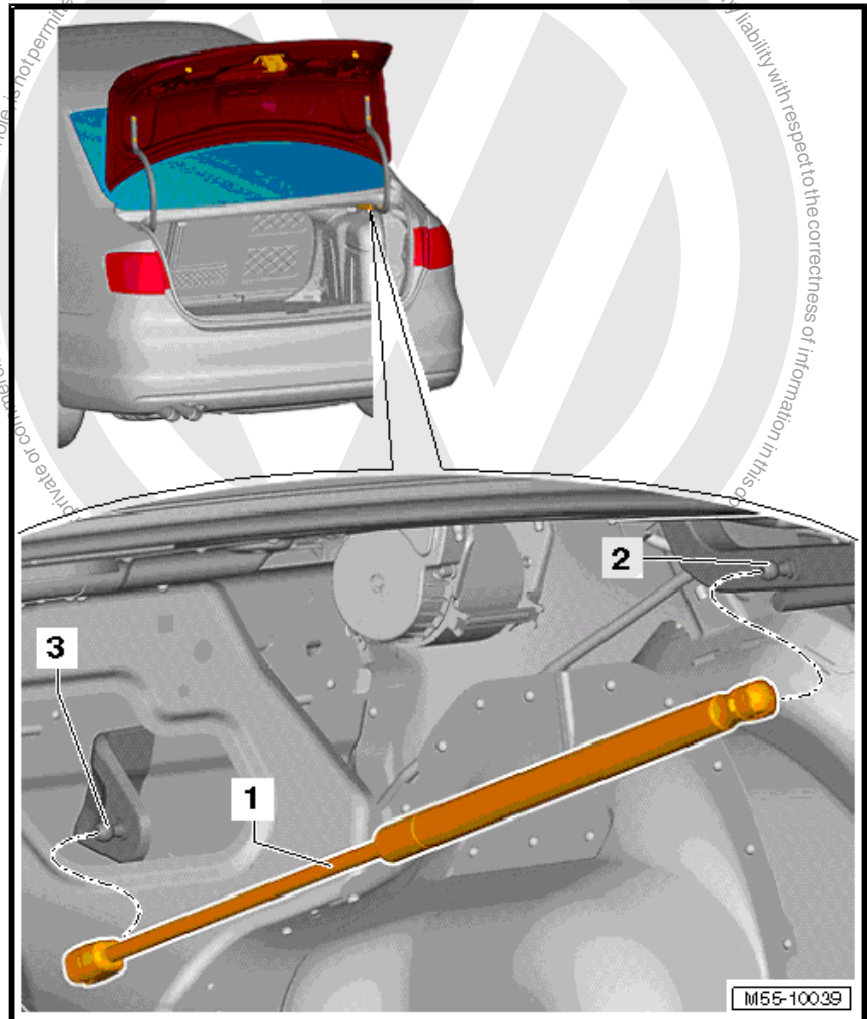
- ☐ Removing and installing
⇒ [page 57](#)
- ☐ Releasing gas
⇒ [page 60](#)

2 - Ball-head pin

- ☐ Only at right hinge
- ☐ Cannot be separated
from hinge

3 - Retaining bracket with ball head pin

- ☐ On rear wall
- ☐ Cannot be separated
from rear wall



2.5 Removing and installing gas strut

2.5.1 Removing



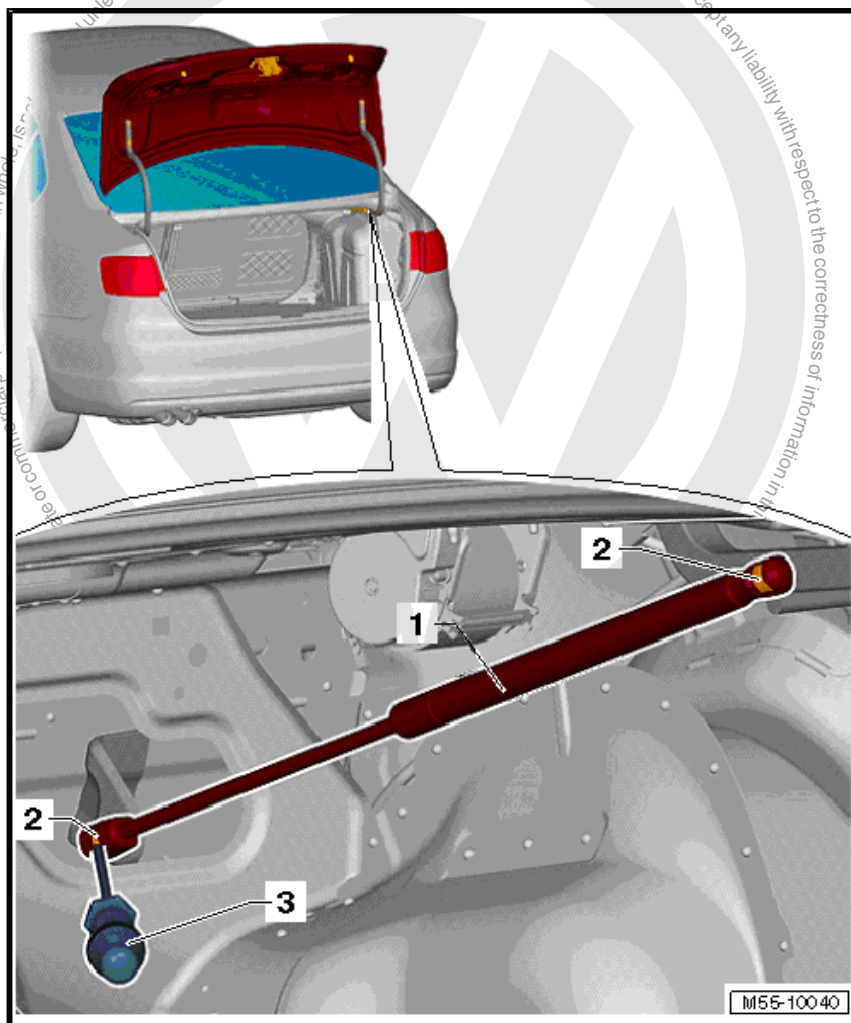
Note

The rear lid must be supported if a gas strut is removed.



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.



Carry out following work:

- Open rear lid and brace it open.
- Position a small screwdriver -3- beneath spring clips -2-.
- Raise spring clips -2- until spring clips can be moved over ball sockets.
- Pull gas strut -1- off ball-head pin.

After removing gas strut, slide spring clips -2- back immediately.

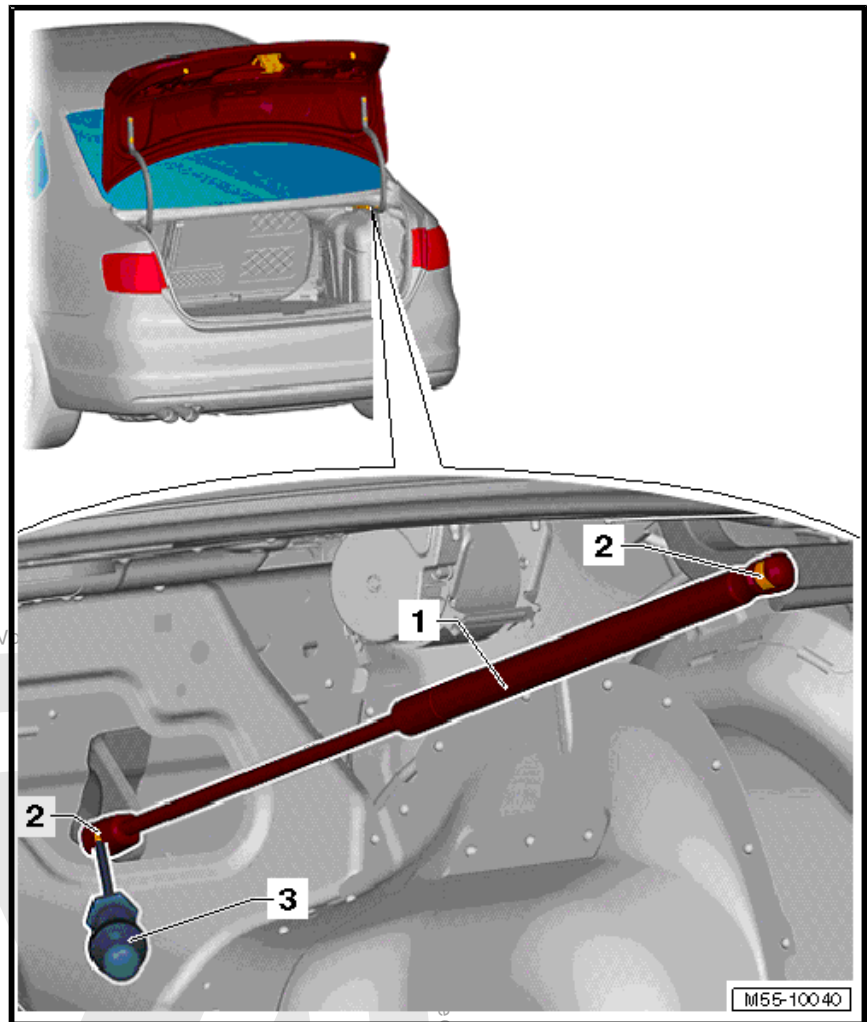


WARNING

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 ⇒ [page 60](#)

2.5.2 Installing



Carry out following work:

- Push spring clips -2- onto ball sockets of gas strut -1-.
- Push ball sockets of gas strut -1- onto ball-head pins until ball sockets audibly engage with the ball-head pins.



2.6 Releasing gas from gas strut

- Clamp gas strut in vice in area x = 50 mm.



WARNING

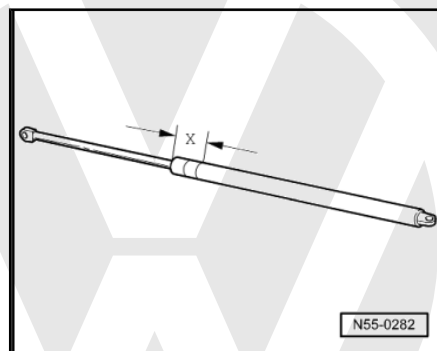
Clamp gas strut only within area -x-; otherwise danger of accident!

- Saw through cylinder of gas strut within first third of cylinder's overall length using piston rod end of cylinder as reference point.



Note

- Wear eye protection when sawing.
- Cover area of saw cut with a cloth.
- Dispose of oil and cloth via existing disposal channels.



2.7 Assembly overview - rear lid hinge

1 - Rear lid

- Removing and installing
⇒ [page 55](#)
- Adjusting ⇒ [page 64](#)

2 - Bolt

- Qty. 2 for each hinge.
- Specified torque: 9 Nm

3 - Hinge

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

4 - Gas strut

- Removing and installing
⇒ [page 57](#)
- Releasing gas
⇒ [page 60](#)

5 - Electrical wiring

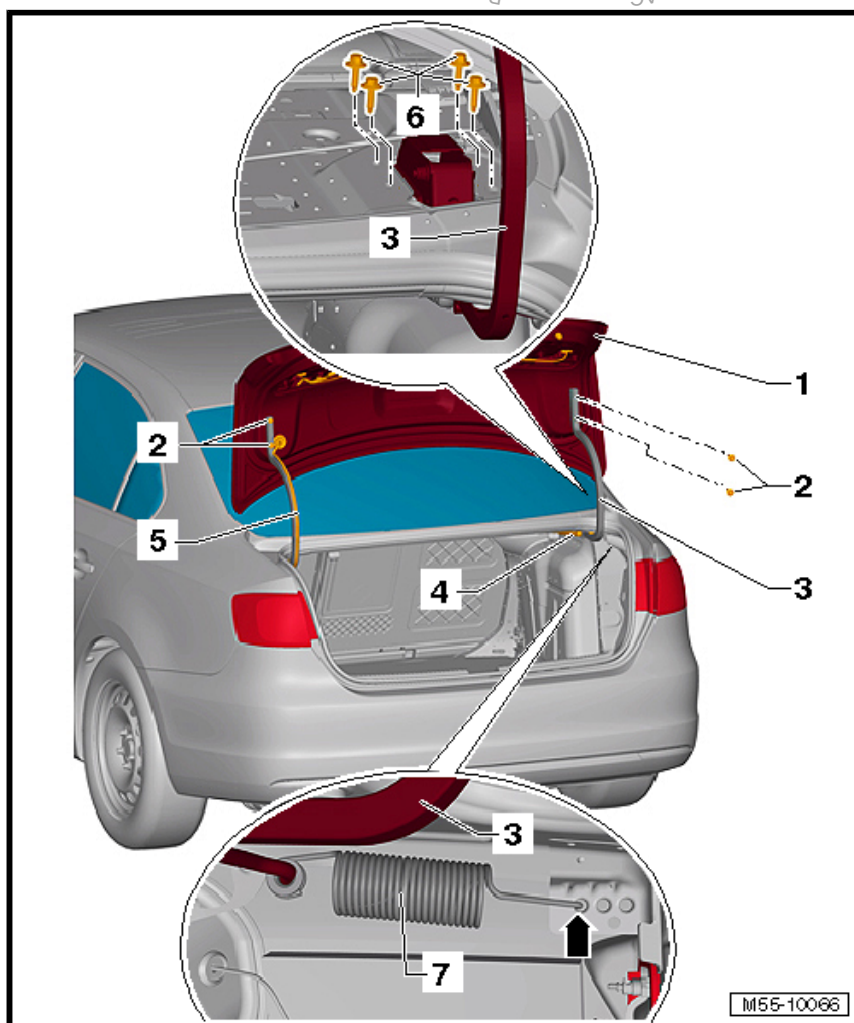
- Clipped in place on hinge

6 - Bolt

- Qty. 4 for each hinge.
- Specified torque: 9 Nm

7 - Spring

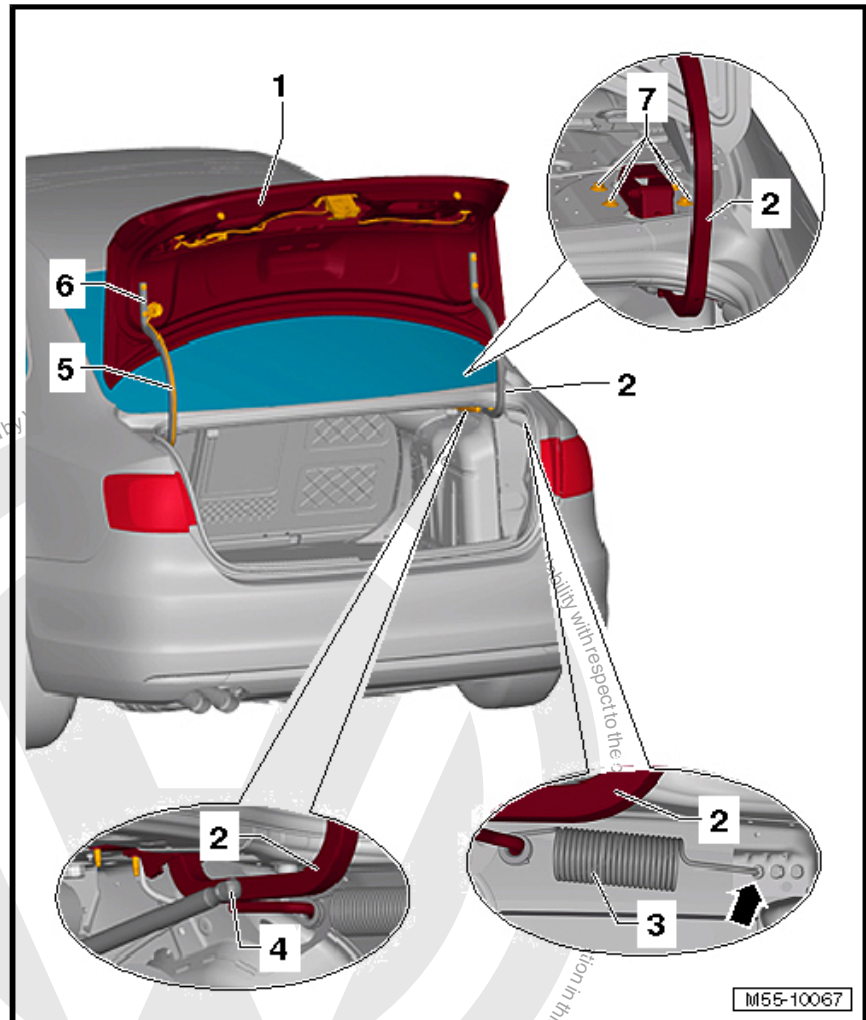
- Left and right.
- Engage in left hole
-arrow-





2.8 Removing and installing rear lid hinge

2.8.1 Removing



Carry out following work:

- Removing rear lid -1- ➤ [page 55](#) .

If the left hinge -6- is to be removed:

- Remove electric cable -5- from left hinge -6-.

If the right hinge -2- is to be removed:

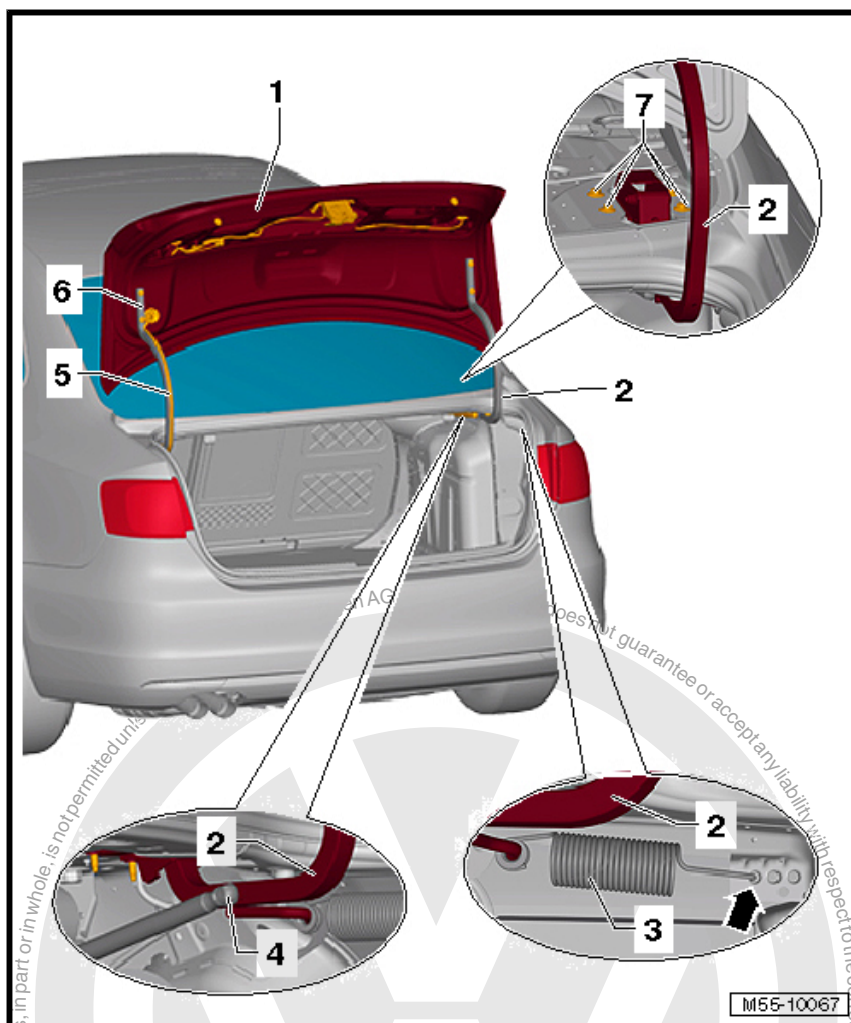
- Remove gas strut -4- from ball-head pin at right hinge -2- ➤ [page 57](#) .

Continued for both hinges:

- Detach spring -3- -arrow- and remove from hinge.
- Remove rear shelf ➤ General body repairs, interior; Rep. gr. 70 ; Pillar and side panel trims .
- Undo and remove bolts -7- and remove left hinge -2-/ right hinge -6-.



2.8.2 Installing



Carry out following work:

Installation of hinge is carried out in reverse order of removal.

Specified torque for bolts -4-: 9 Nm.

- Adjusting rear lid ➤ [page 64](#) .
- Before closing rear lid, check function of lid release components.

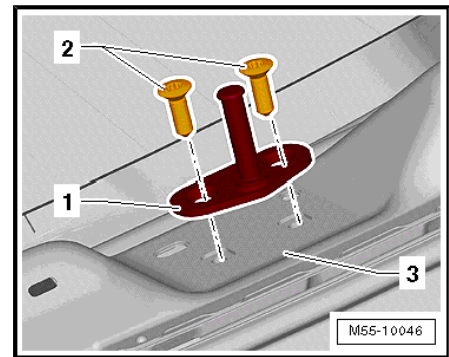


2.9 Removing and installing striker plate

2.9.1 Removing

Carry out following work:

- Remove cover of striker plate in lock carrier cover.
- Undo bolts -2- and remove striker plate -1- from lock carrier -3-.



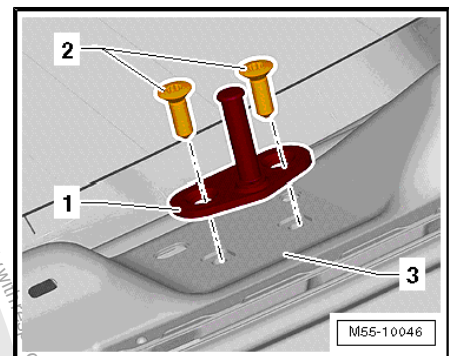
2.9.2 Installing

Carry out following work:

- Mount striker plate -1- on lock carrier -3- with bolts -2-.

Specified torque of bolts -2-: 18 Nm

- Adjust striker plate ⇒ [page 65](#) .
- Install cover of striker plate into lock carrier cover.

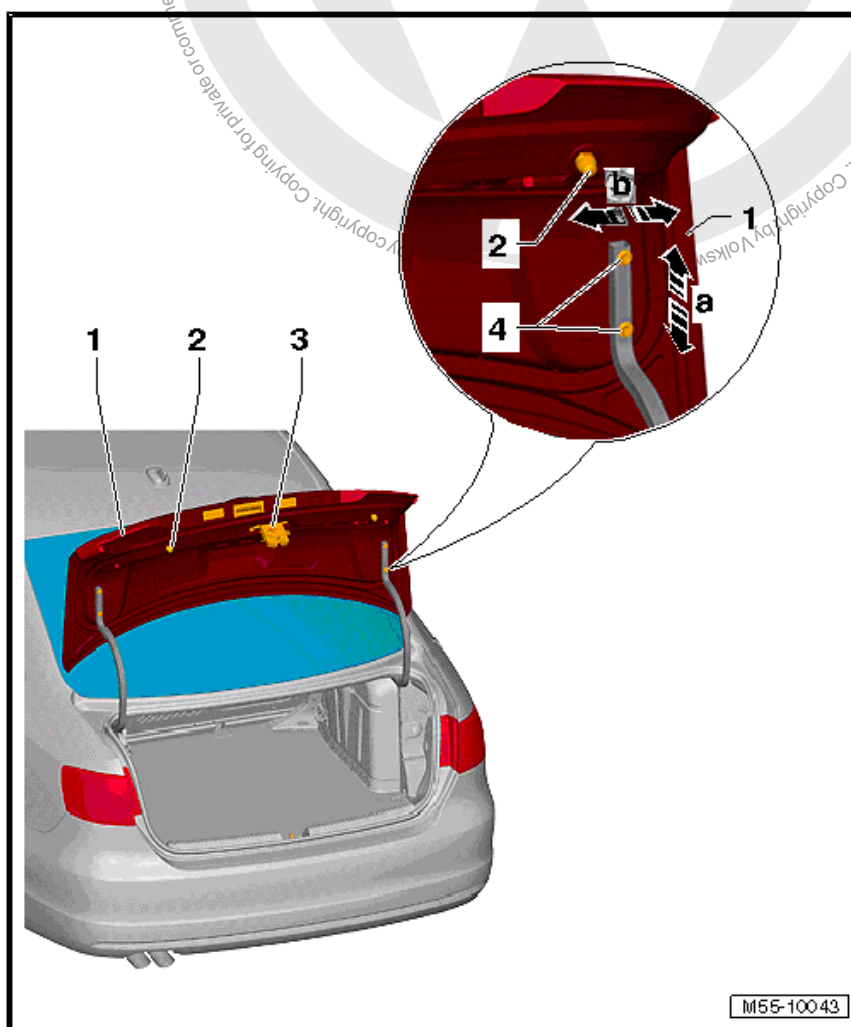




2.10 Adjusting rear lid

Note

- ◆ Vehicle must be standing on its wheels to enable rear lid to be adjusted.
- ◆ The rear lid lock -3- is bolted directly to the rear lid -1-. It does not have elongated holes, so it cannot be adjusted.
- ◆ The adjustment buffers -2- on the left and right are not a means of adjustment. Their purpose is to stabilise and dampen the rear lid -1-.
- ◆ The rear lid is adjusted correctly if the gaps/shut lines are even all around, the door is not too deep or does not stand proud and all contours align when the rear lid is closed.
- ◆ The rear lid must engage in the striker plate without excessive force being applied.



Carry out following work:

Use the setting gauge -3371- → Body Repairs; Rep. gr. 00 ;
Bodywork gaps/shut lines; Front body to check or set the gap dimensions.

- By loosening the bolts -4-, it is possible to adjust rear lid -1- in oversized holes of hinge -arrows a- and -b-.



Specified torque for bolt -4-: 9 Nm.

- After completing adjustments, perform corrosion protection measures on hinge and bolts.
- Turn adjustment buffer -2- to adjust.
- Adjust rear lid -1- at striker plate ➤ [page 65](#) .

2.10.1 Adjusting striker plate



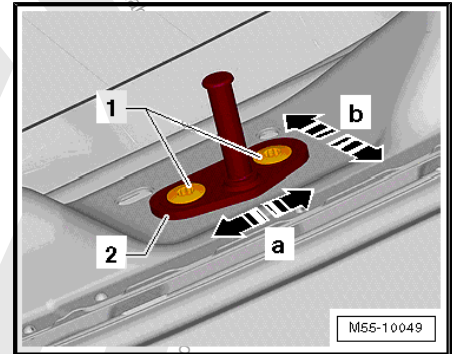
Note

- ♦ By loosening the bolts -1-, it is possible to move the striker plate -2- in the oversized holes -arrows a- and -b-.
- ♦ Adjust striker plate -2- so that the recess of the rear lid lock with rotary latch is centred relative to the striker plate -2- when it engages.

Carry out following work:

- Remove cover of striker plate in lock carrier cover.
- Loosen bolts -1-.
- Move striker pin -2- into upper position and tighten the bolts -1-.
- Close rear lid and make sure adjustment has been carried out correctly.

Specified torque of bolts -1-: 18 Nm



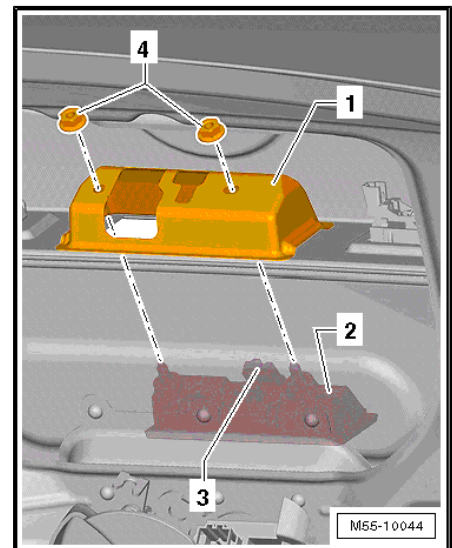
2.11 Removing and installing rear lid handle release button -E234-

2.11.1 Removing

Carry out following work:

- Remove rear lid trim ➤ General body repairs, interior; Rep. gr. 70 ; Rear lid trim .
- Detach connector -3- from button connection -2-.
- Undo nuts -4- from threaded bolts of rear lid handle release button -E234- and remove covering part -1- upwards.
- Remove button -2- from rear lid.

In case of electrical malfunction, rear lid can be opened using lock emergency release ➤ [page 66](#) . Emergency release is accessible through an aperture in rear lid trim.





2.11.2 Installing

Carry out following work:

Install in reverse order of removal.

Specified torque for nuts: 6 Nm.

- Before closing rear lid, check function of lid release components.

2.12 Removing and installing lid lock

2.12.1 Removing

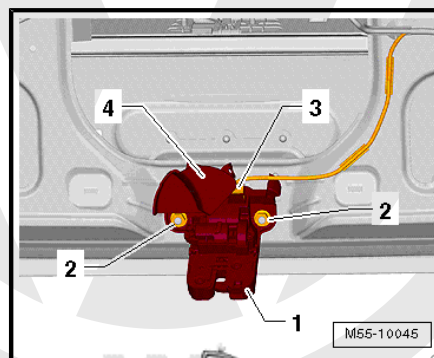


Note

If the rear lid does not open, it can be opened in an emergency by reaching through the rear lid trim and actuating the emergency release -4- ⇒ Operating Manual .

Carry out following work:

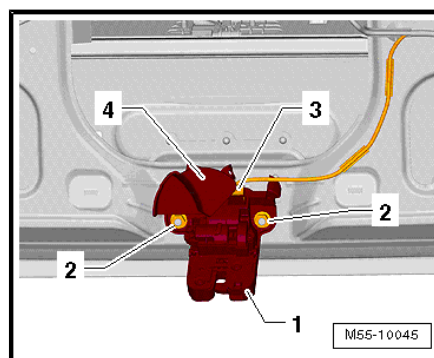
- Remove rear lid trim ⇒ General body repairs, interior; Rep. gr. 70 ; Rear lid trim .
- Detach connector -3- from lid lock -1-.
- Unscrew nuts -2- and remove lid lock -1- from rear lid.



2.12.2 Installing

Carry out following work:

- Position lid lock -1- on rear lid and fit hexagon nuts -2-.
- Specified torque for nuts -2-: 23 Nm
- Connect connector -3- to rear lid lock -1-.
 - Install rear lid trim ⇒ General body repairs, interior; Rep. gr. 70 ; Rear lid trim .
 - Before closing rear lid, check function of lid release components.



2.13 Rear lid seal

In the factory a sealant is applied to the rear lid seal, the seal is fitted to the body flange and then rolled on.

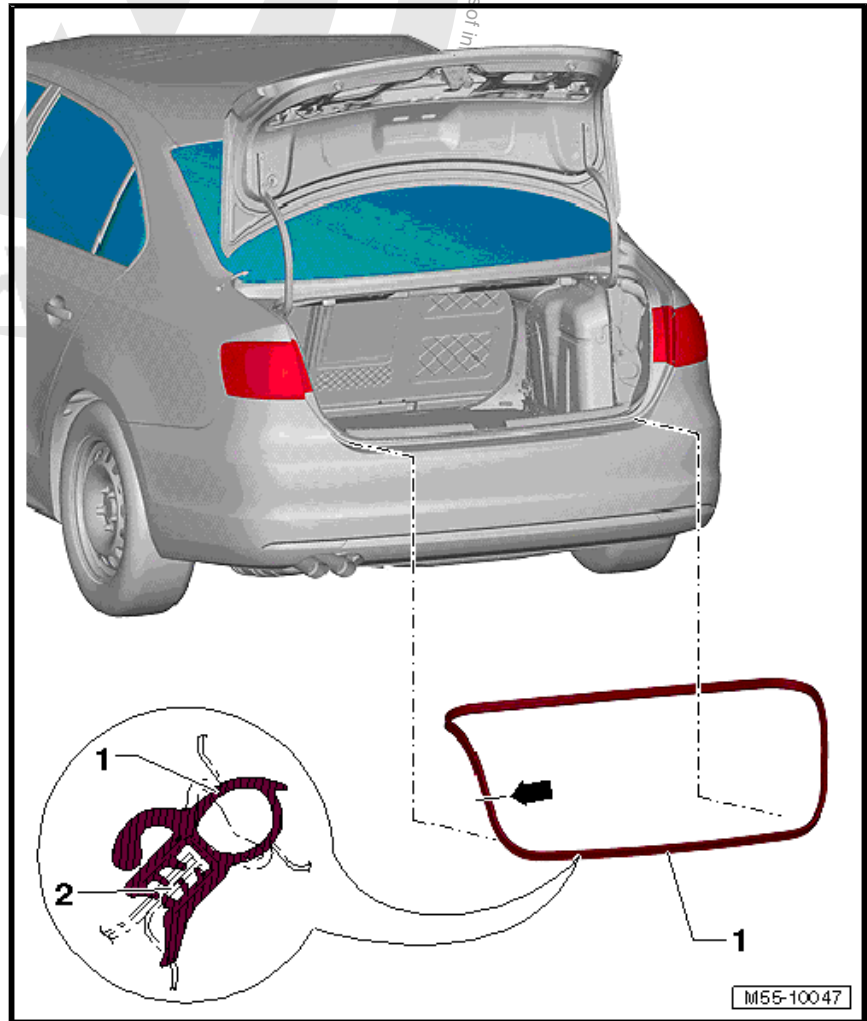


Note

- ◆ When seals are removed, the sealant will spread to the inside of the seal and the flanks will be bent out slightly. If the seal is then refitted, sealing and firm seating are no longer guaranteed.
- ◆ Therefore, each seal that is completely removed must be replaced with a seal known as a "tap-on seal".
- ◆ If a seal has been partially removed, squeeze sides of seal together before installing.

2.14 Removing and installing rear lid seal

2.14.1 Removing

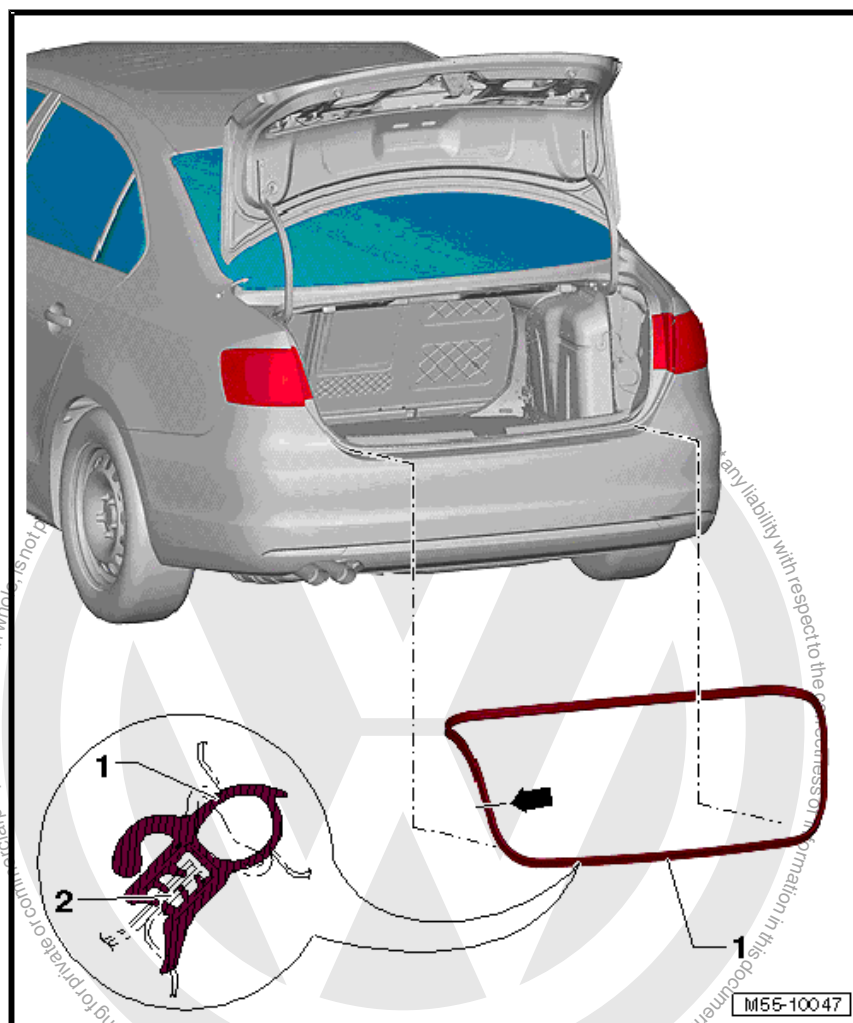


Carry out following work:

- Pull rear lid seal -1- off body flange -2-.



2.14.2 Installing



Carry out following work:

- Adjust rear lid seal -1- so that vulcanised point -arrow- faces the left tail light.
- Press seal -1- evenly onto body flange -2-.



2.15 Registration plate carrier



Note

- ◆ Number plate carrier is not installed in all models or in all markets.
- ◆ Number plate carriers of different sizes are fitted in various markets.

1 - Pop rivet nut

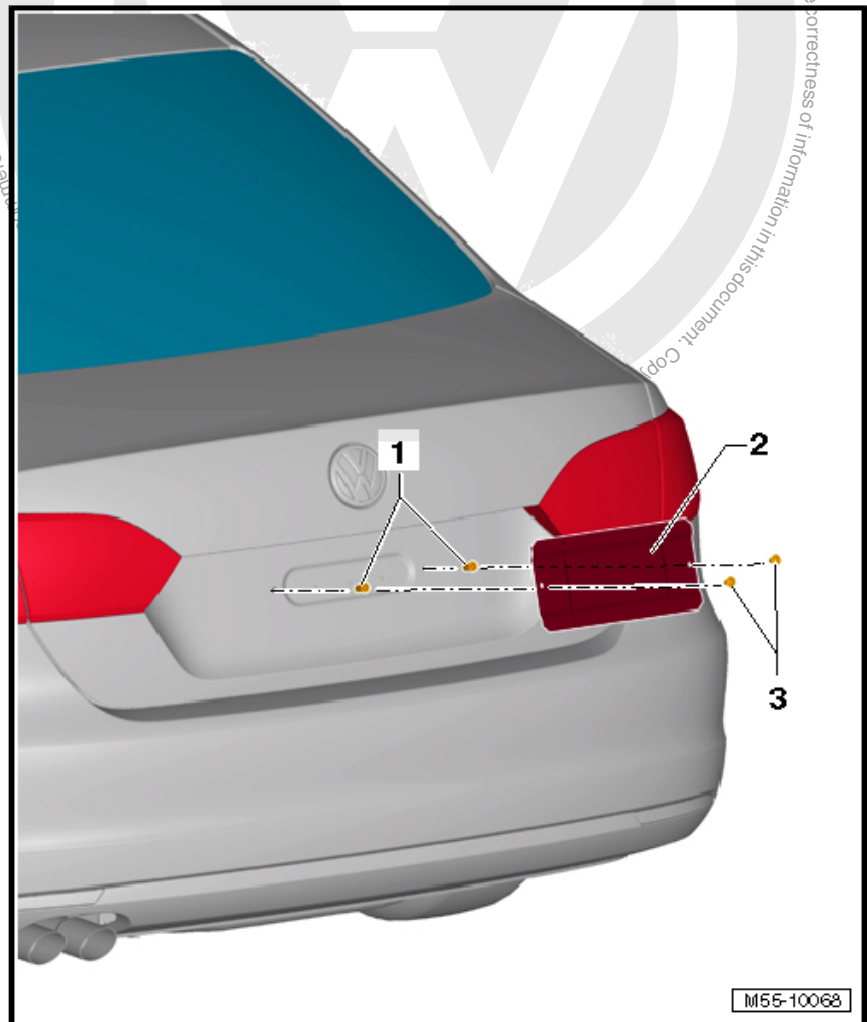
- Qty. 2.

2 - Registration plate carrier

- Assignment ⇒ Parts catalogue "ETKA"

3 - Bolt

- Qty. 2.
- Specified torque: 4 Nm



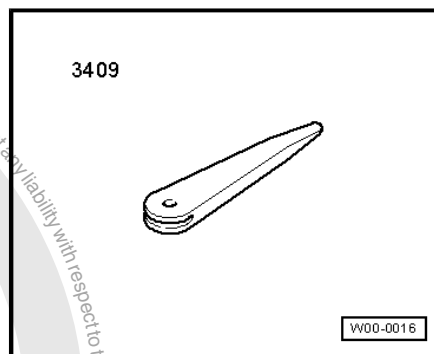


3 Tank flap unit

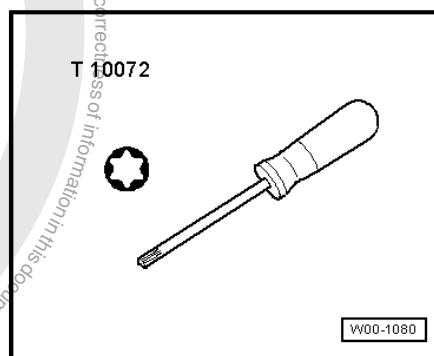
3.1 Tools

Special tools and workshop equipment required

- ◆ Removal wedge -3409-



- ◆ Socket -T10072-





3.2 Assembly overview - tank flap unit

1 - Connector

- ☐ For tank filler flap locking motor -V155-

2 - Tank filler flap locking motor -V155-

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

3 - Tank flap unit

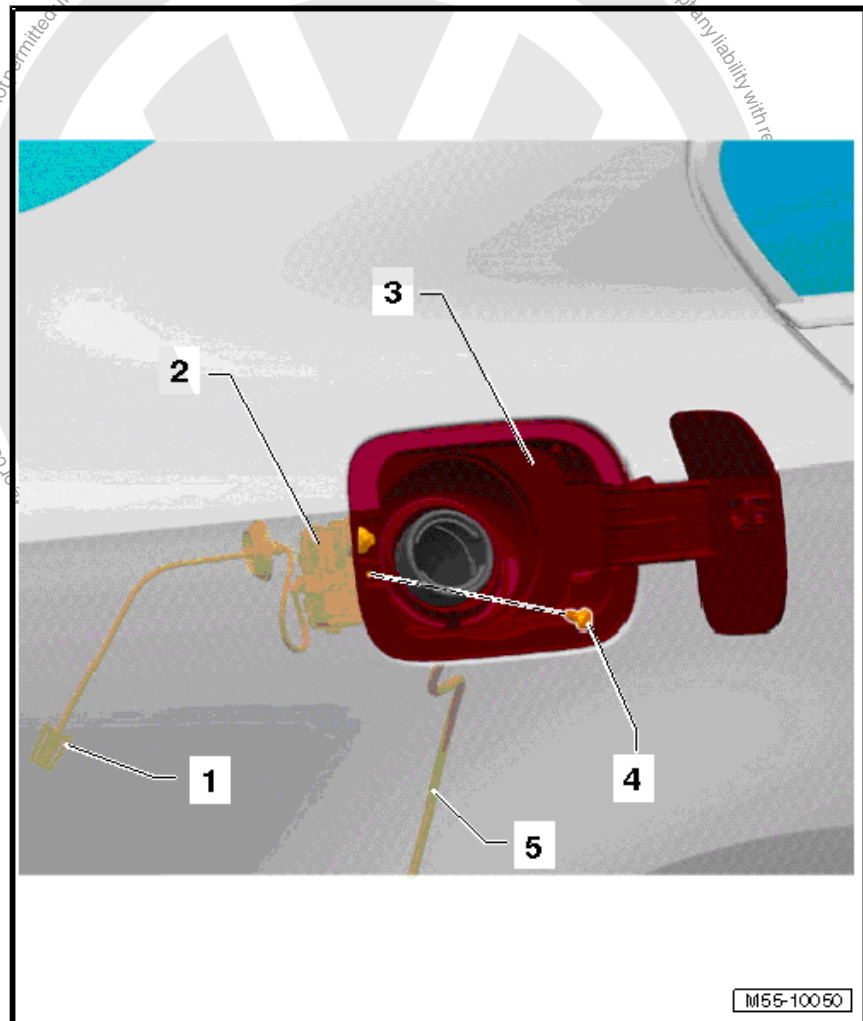
- ☐ Removing and installing
⇒ [page 71](#)

4 - Bolt

- ☐ Specified torque: 1.5 Nm

5 - Water drain hose

- ☐ Routed between wheel housing and wheel housing liner

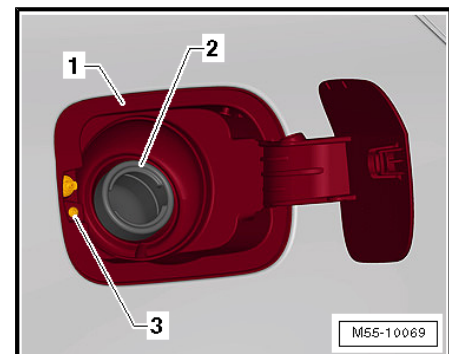


3.3 Removing and installing tank flap unit

3.3.1 Removing

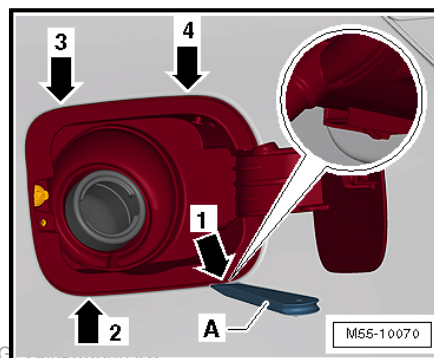
Carry out following work:

- Screw off tank cover.
- Peel rubber grommet of tank flap unit -1- off tank filler neck -2-.
- Remove bolt -3-.

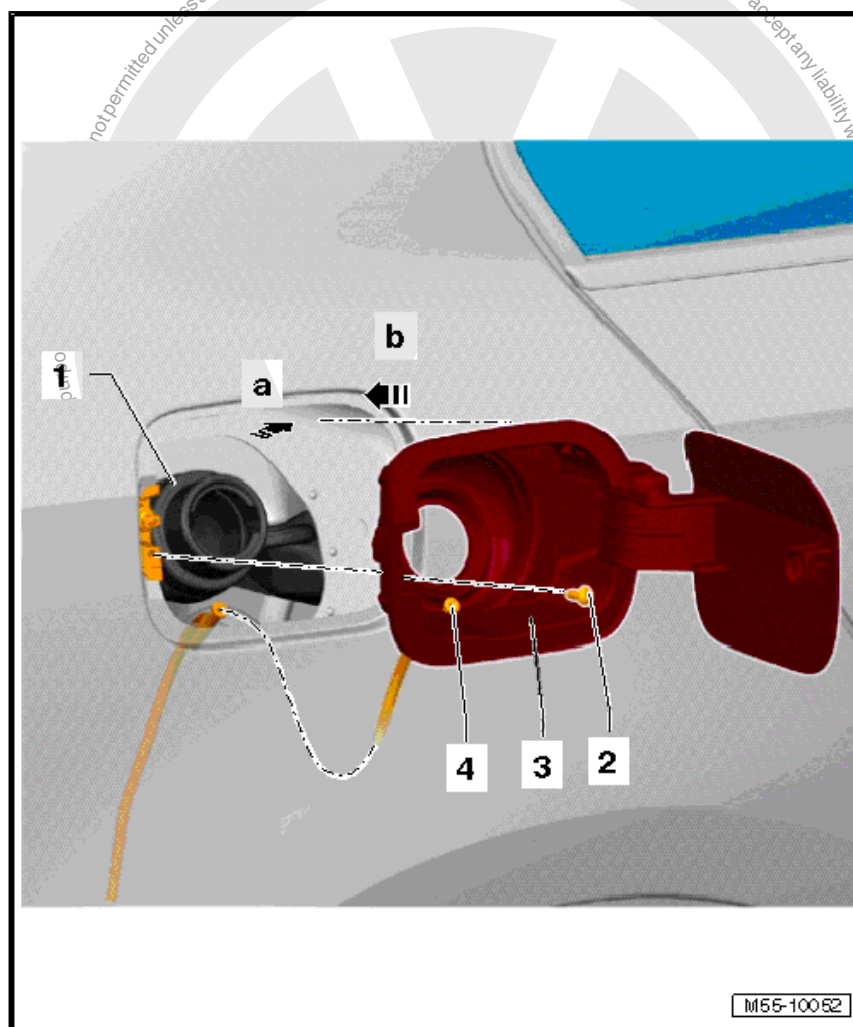




- Using removal wedge -3409- -A-, release locking mechanism of bottom right tank flap unit -arrow 1-.
- Release remaining locking mechanisms of tank flap unit using removal wedge -3409- in specified sequence -arrows 2 ... 4-.
- Swing out tank flap unit with water drainage hose from side panel.



3.3.2 Installing



Carry out following work:

- Insert water drainage hose -4- through opening in tank flap unit -3- and pull through water drainage hose as far as it will go.
- Push water drainage hose -4- between wheel housing and wheel housing liner and into the side panel.



- Insert tank flap unit -3- with hinge side leading into side panel -arrow a-.
- Then push tank flap unit fully home in side panel -arrow b-, ensuring that locking lugs engage correctly in side panel.
- Tighten bolt -2-.

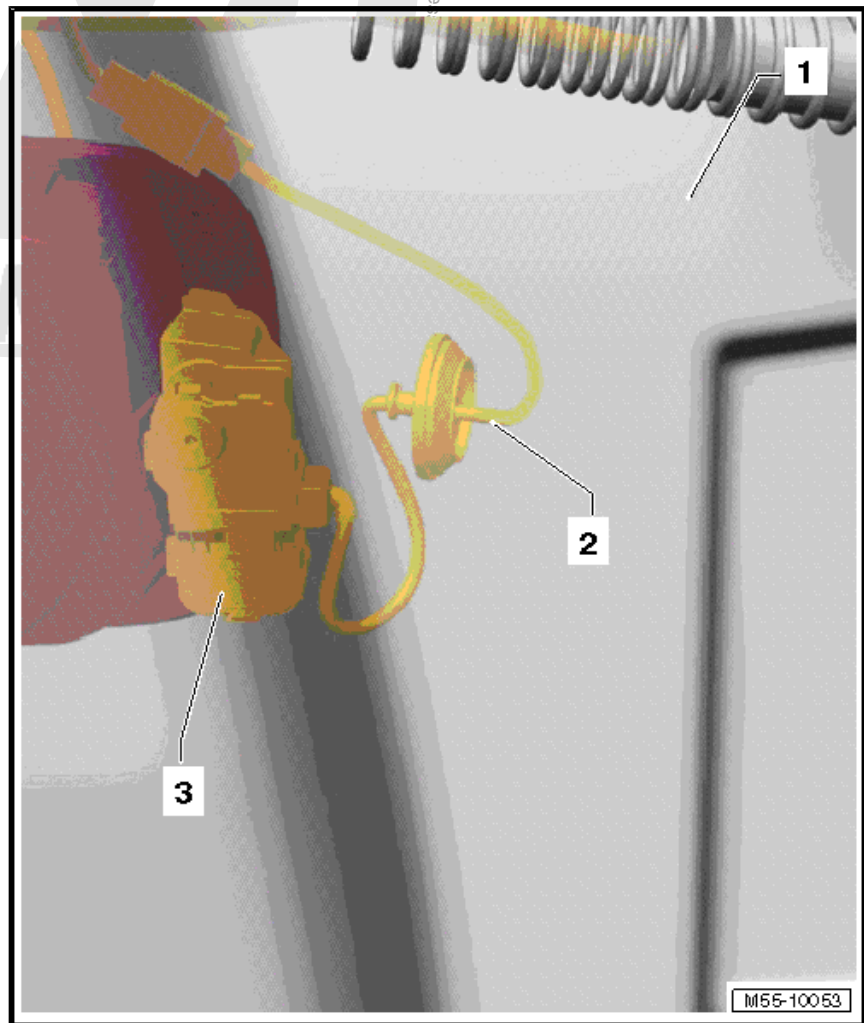
Specified torque for bolt -2-: 1.5 Nm.

- Pull rubber grommet of tank flap unit -3- over tank filler neck -1-.

Perform functional check of release components.

3.4 Removing and installing tank filler flap locking motor -V155-

3.4.1 Removing



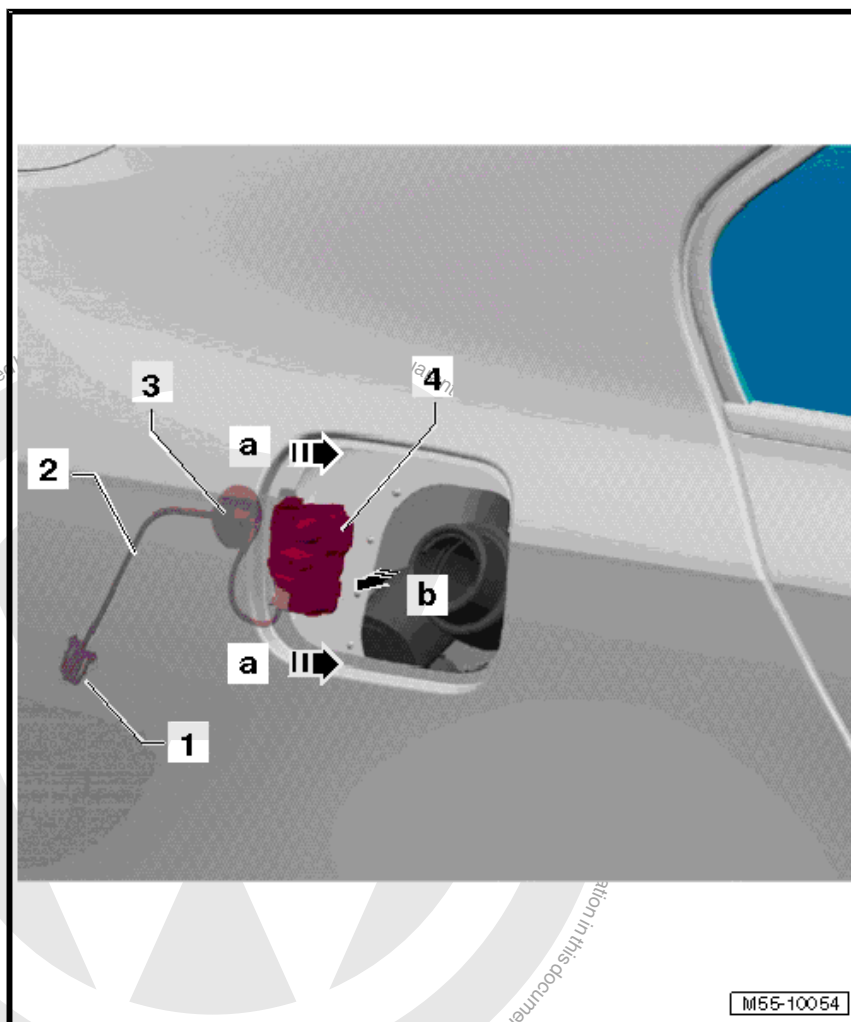
Carry out following work:

- Lift up upper part of right luggage compartment trim -1- and pull it off until the connector -2- is accessible. Do not remove



luggage compartment trim entirely => General body repairs, interior; Rep. gr. 70 ; Trims; Luggage and load compartment .

- Detach connector -2- of tank filler flap locking motor -V155- -3-.



- Remove fuel tank flap unit => [page 71](#)
- Press rubber grommet -3- out of side panel and pull cable -2- together with plug-in connector -1- out of side panel.
- Pull tank filler flap locking motor -V155- -4- in -direction of arrow a- away from side panel and remove -arrow b-.

3.4.2 Installing

Carry out following work:

Install in reverse order of removal.

- Check that grommet and connector are seated correctly.
- Installing tank flap unit => [page 71](#)
- Attach luggage compartment trim on right => General body repairs, interior; Rep. gr. 70 ; Trims; Luggage and load compartment .



- Carry out a functional test of the releasing components.





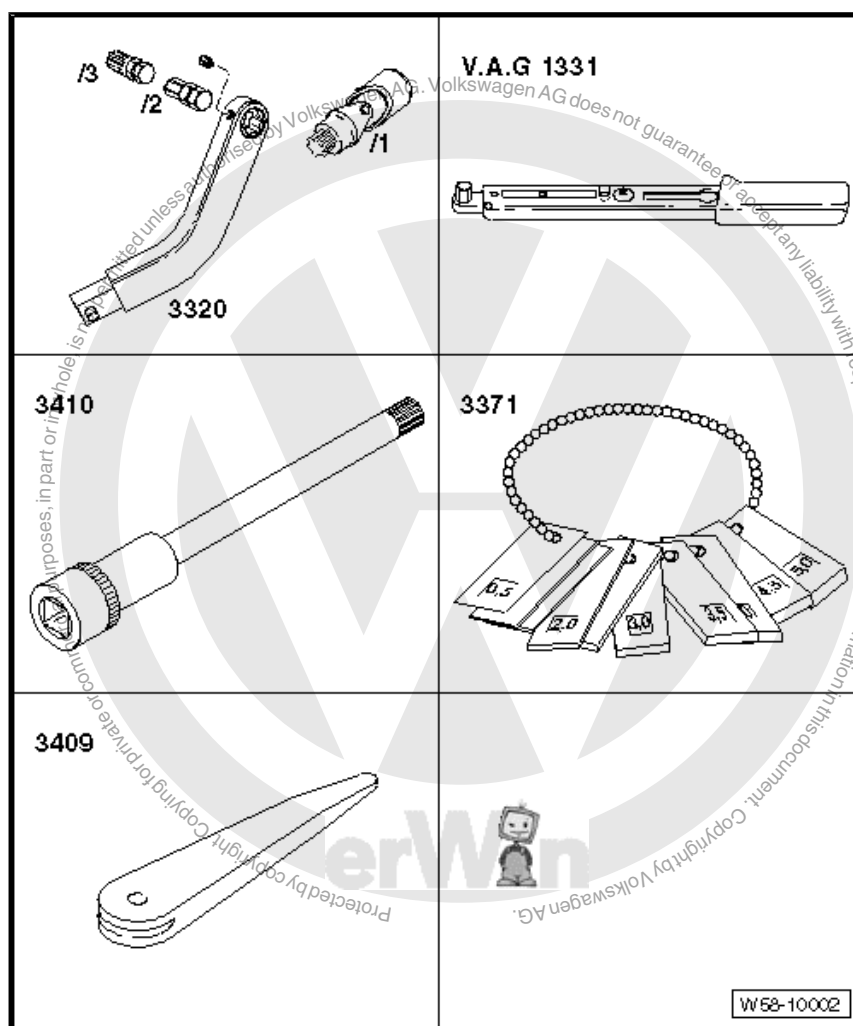
57 – Front doors, door components, central locking

1 Front door

1.1 Tools

Special tools and workshop equipment required

- ◆ Door alignment tool -3320-
- ◆ Universal joint for 3320 -3320/1-
- ◆ Bit for 3320 -3320/2-
- ◆ Bit for 3320 -3320/3-
- ◆ Torque wrench -V.A.G 1331-
- ◆ Socket -3410-
- ◆ Setting gauge -3371-
- ◆ Removal wedge -3409-





1.2 Assembly overview - door hinges



Note

- ◆ The right side is shown. The left side is similar.
- ◆ The hinge bolts must always be renewed after they have been loosened.

1 - Door

- ☐ Removing and installing
⇒ [page 78](#)
- ☐ Adjusting ⇒ [page 82](#)

2 - Bolt

- ☐ Always renew; it is permissible to loosen them once in order to align door.
- ☐ Specified torque: 40 Nm

3 - Door hinge

- ☐ Hinge is split.
- ☐ Upper part is secured to hinge lower part with bolt -4-.

4 - Bolt

- ☐ Connects upper part of hinge -3- to bottom part of hinge -7-
- ☐ Specified torque: 23 Nm

5 - Cover

- ☐ Fit onto bolt -4-.

6 - Bolt

- ☐ Always renew; it is permissible to loosen them once in order to align door.
- ☐ Specified torque: 40 Nm
- ☐ Installed from inside vehicle.
- ☐ For removal and installation, A-pillar lower trim must be removed ⇒ General body repairs, interior; Rep. gr. 70 ; Pillar and side panel trims .
- ☐ If the A-pillar has been replaced, other specified torques must be observed ⇒ [page 81](#)

7 - Door hinge

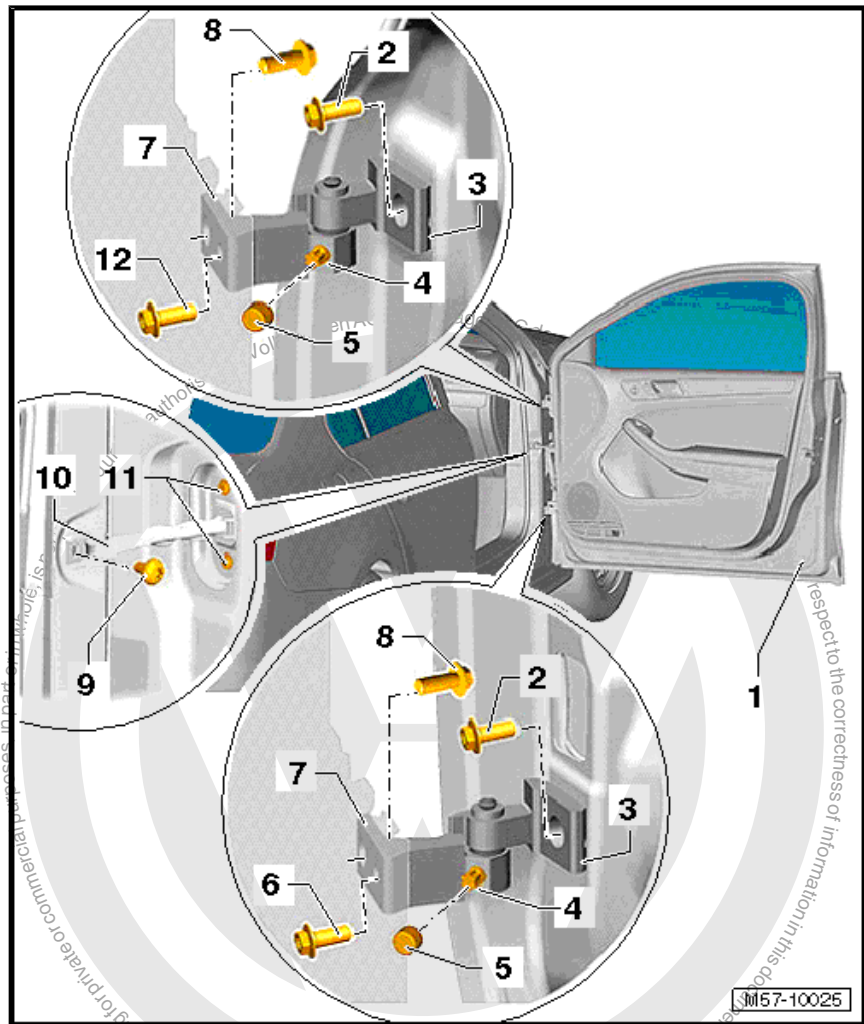
- ☐ Hinge is split.
- ☐ Lower part is secured to hinge upper part with bolt -4-.

8 - Bolt

- ☐ Always renew; it is permissible to loosen them once in order to align door.
- ☐ Specified torque: 40 Nm
- ☐ If the A-pillar has been replaced, other specified torques must be observed ⇒ [page 81](#)

9 - Bolt

- ☐ Specified torque: 30 Nm





10 - Door retaining strap

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

11 - Bolt

- ❑ Qty. 2.
- ❑ Specified torque: 9 Nm

12 - Bolt

- ❑ Always renew; it is permissible to loosen them once in order to align door.
- ❑ Specified torque: 40 Nm
- ❑ Installed from inside vehicle.
- ❑ To remove and install, the dash panel must be removed ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel; Removing and installing dash panel
- ❑ If the A-pillar has been replaced, other specified torques must be observed ⇒ [page 81](#)

1.3 Removing and installing door

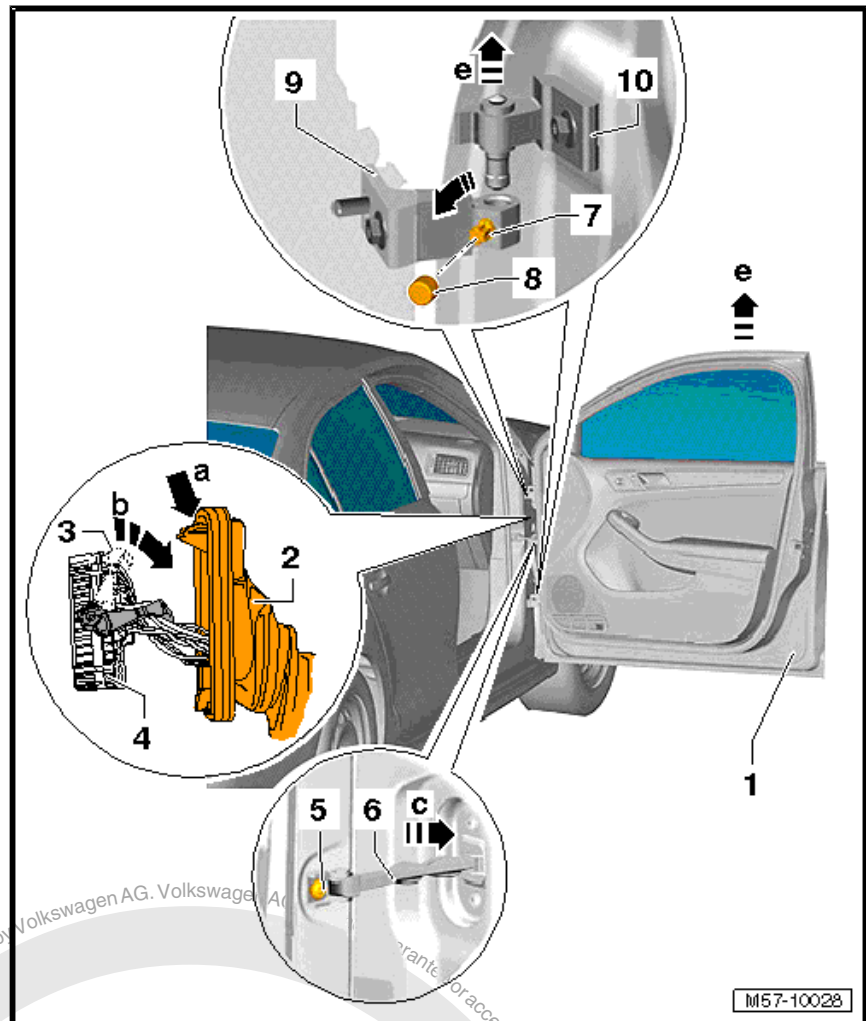


Note

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



1.3.1 Removing

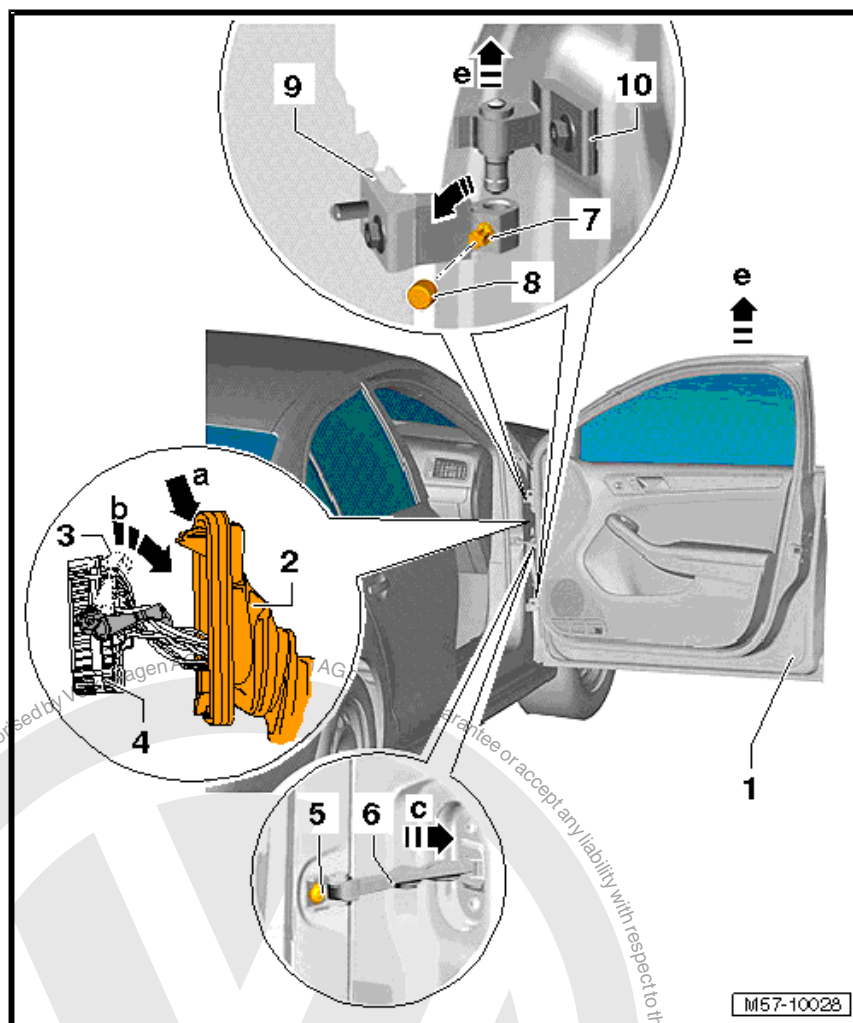


Carry out following work:

- Release boot -2- by pressing fastener -arrow a- and pull off A-pillar.
- Swing release lever -3- downwards -arrow b- and disconnect electrical connector -4- from coupling station.
- Remove caps -8- from bolts -7-.
- Loosen bolts -7- at hinges -arrow d-.
- Unscrew bolt -5- for door retaining strap -6-.
- Push door retaining strap -6- inwards -arrow c-.
- Lift door -1- upwards -arrow e- out of hinges -9-.



1.3.2 Installing



Carry out following work:

Install in reverse order of removal.

Specified torque for bolt -5-: 30 Nm.

Specified torque for bolts -7-: 23 Nm.

- Adjusting door ➤ [page 82](#)
- Observe front door gaps ➤ Body Repairs; Rep. gr. 00 ; Body panel gaps/shut lines; Body - middle .

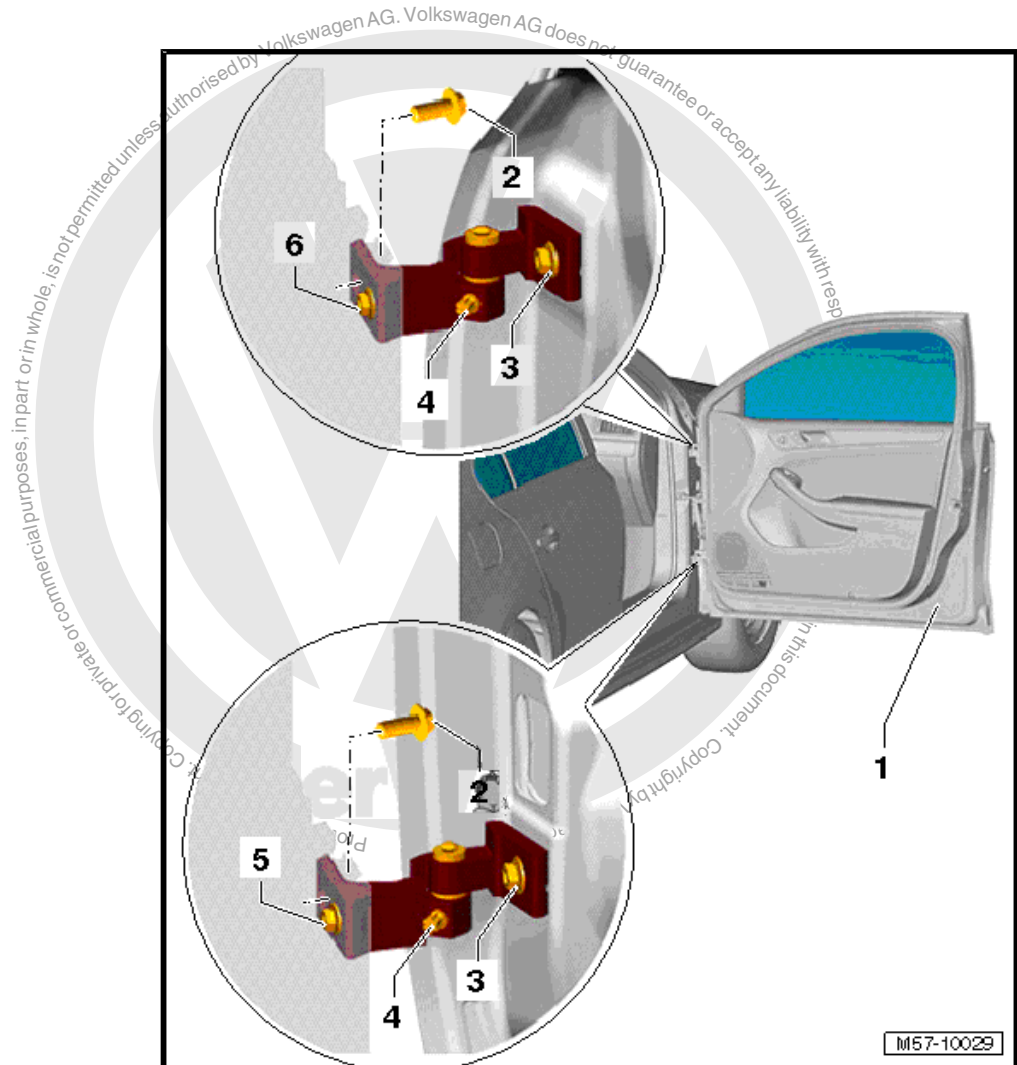


1.4 Installing after renewing A-pillar



WARNING

If A-pillar is renewed, bolts on A-pillar must absolutely be tightened as described in the following.



Carry out following work:

- A-pillar has been renewed.
- Always renew; it is permissible to loosen them once in order to align door.

Install in reverse order of removal.

- Insert door -1- and tighten bolts -2-, -5- and -6- to 20 Nm at 90°.
- Adjusting door ⇒ [page 82](#)
- Observe front door gaps ⇒ Body Repairs; Rep. gr. 00 ; Body panel gaps/shut lines; Body - middle .



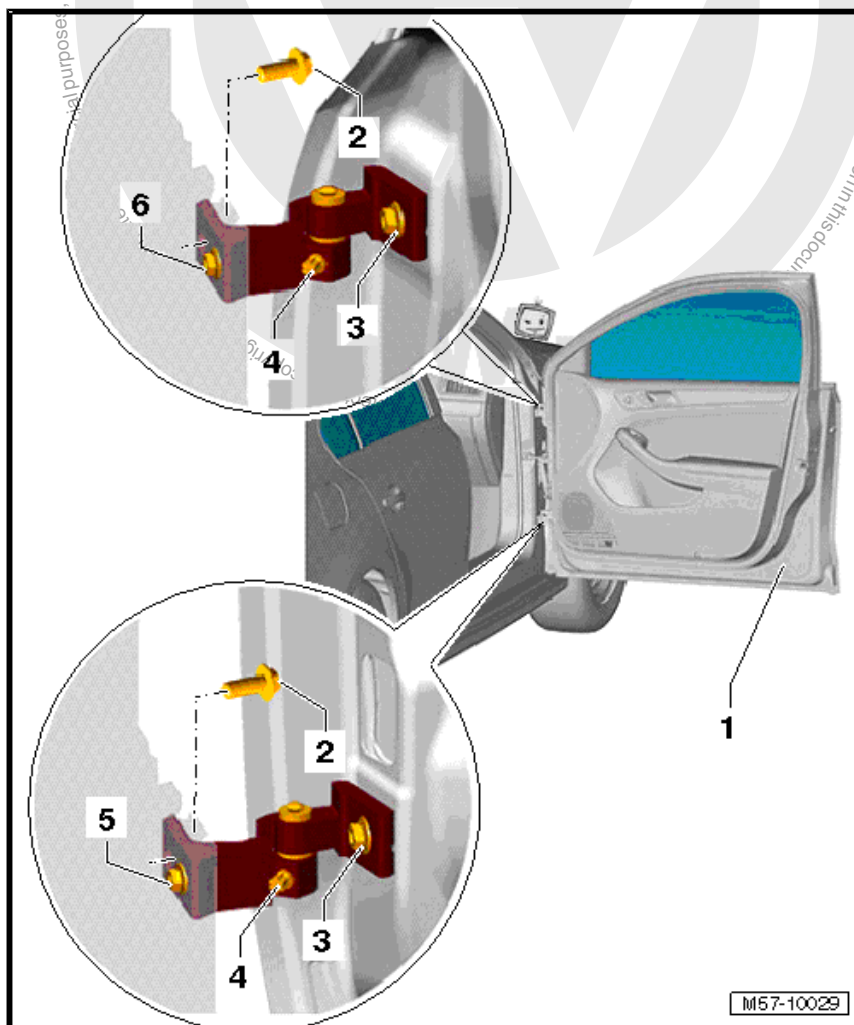
1.5 Door alignment

1.5.1 Door alignment - shut lines and flushness



Note

- ◆ Vehicle must be standing on its wheels to enable front door to be adjusted.
- ◆ The front door 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.
- ◆ To check gaps/shut lines: ➔ Body Repairs; Rep. gr. 00 ; Technical data; Body panel gaps/shut lines; Body - middle
- ◆ After installing or alignment, carry out corrosion protection measures on hinges and screws/bolts.



Carry out following work:

Adjusting shut lines

To be able to adjust shut lines correctly, bolts -2-, -5- and -6- in A-pillar must be loosened.



- For bolt -5-, A-pillar lower trim must be removed ⇒ General body repairs, interior; Rep. gr. 70 ; Pillar and side panel trim .
- For bolt -6-, dash panel must be removed ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel; Removing and installing dash panel .

Adjusting for flush fitting

In order to adjust flushness correctly, the bolts -3- must be loosened.

Use door alignment tool -3320- with appropriate bit for this.



Note

Other measures such as raising the door have no effect. Subsequent pressure from above will cause the door to sack again.

Adjusting striker pin ⇒ [page 83](#) .

1.5.2 Adjusting striker pin



Note

- ◆ *Only the adjustment for the right front door is described. The adjustment of the left front door is similar.*
- ◆ *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 striker pin can be used to make sure that the front door is aligned flush with the rear door (wind noises).

Carry out following work:

- Loosen striker pin -1- by loosening bolts -2- in B-pillar.
- Adjust the front door with the striker pin -1- in such a way that the front door is flush with the rear door when shut (to prevent wind noise) -arrow a- and -arrow-.

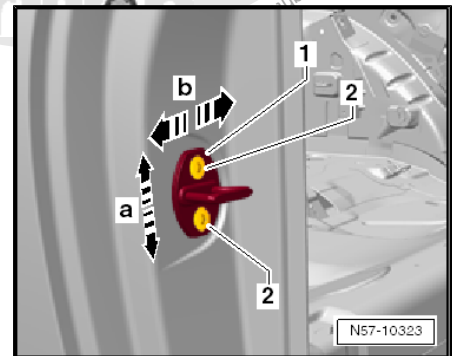


Note

Increased force may have to be applied so that position of striker pin -1- can be adjusted with bolts -2- loosened.

- Tighten bolts -2- of striker pin -1-.

Specified torque for bolts -2-: 20 Nm.



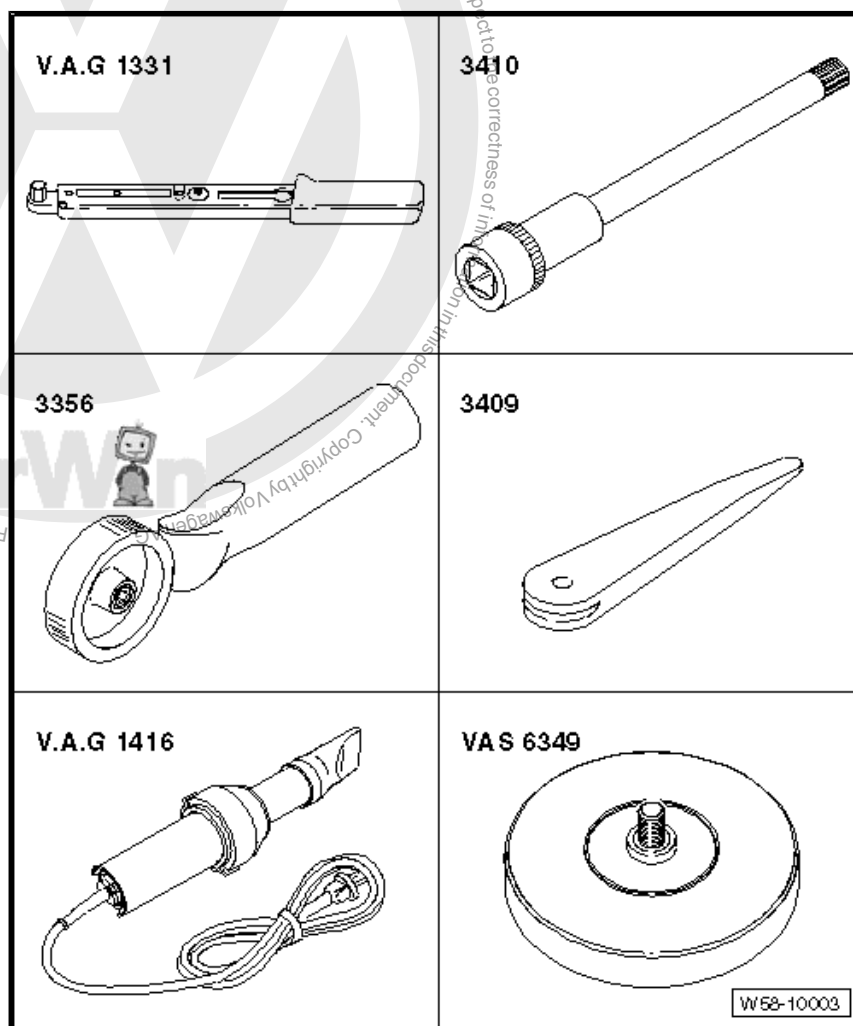


2 Door components

2.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-
- ◆ Socket -3410-
- ◆ Roller for door insulation foil -3356-
- ◆ Removal wedge -3409-
- ◆ Hot air blower -V.A.G 1416-
- ◆ Adhesive residue remover -VAS 6349-





2.2 Assembly overview - front door

1 - Door

- ☐ Removing and installing
⇒ [page 78](#)
- ☐ Adjusting ⇒ [page 82](#)

2 - Cable

- ☐ From bearing bracket
-3- to door lock -12-

3 - Bearing bracket

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

4 - Door handle

- ☐ Removing and installing
⇒ [page 98](#)

5 - Lock cylinder

- ☐ Removing and installing
⇒ [page 93](#)
- ☐ Not always installed in
front passenger door,
depending on the extras
in vehicle

6 - Base

7 - Cover

- ☐ Removing and installing
with lock cylinder
⇒ [page 92](#) .
- ☐ Removing and installing
without lock cylinder
⇒ [page 95](#) .

8 - Window slot outer seal

- ☐ Removing and installing
⇒ [page 108](#)

9 - Retaining bracket

- ☐ For door trim panel threaded connections.

10 - Securing rivet

- ☐ For retaining bracket -9-

11 - Bolt

- ☐ Qty. 2.
- ☐ Specified torque: 18 Nm

12 - Door lock

- ☐ Removing and installing ⇒ [page 100](#)

13 - Cover

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

14 - Door joint seal

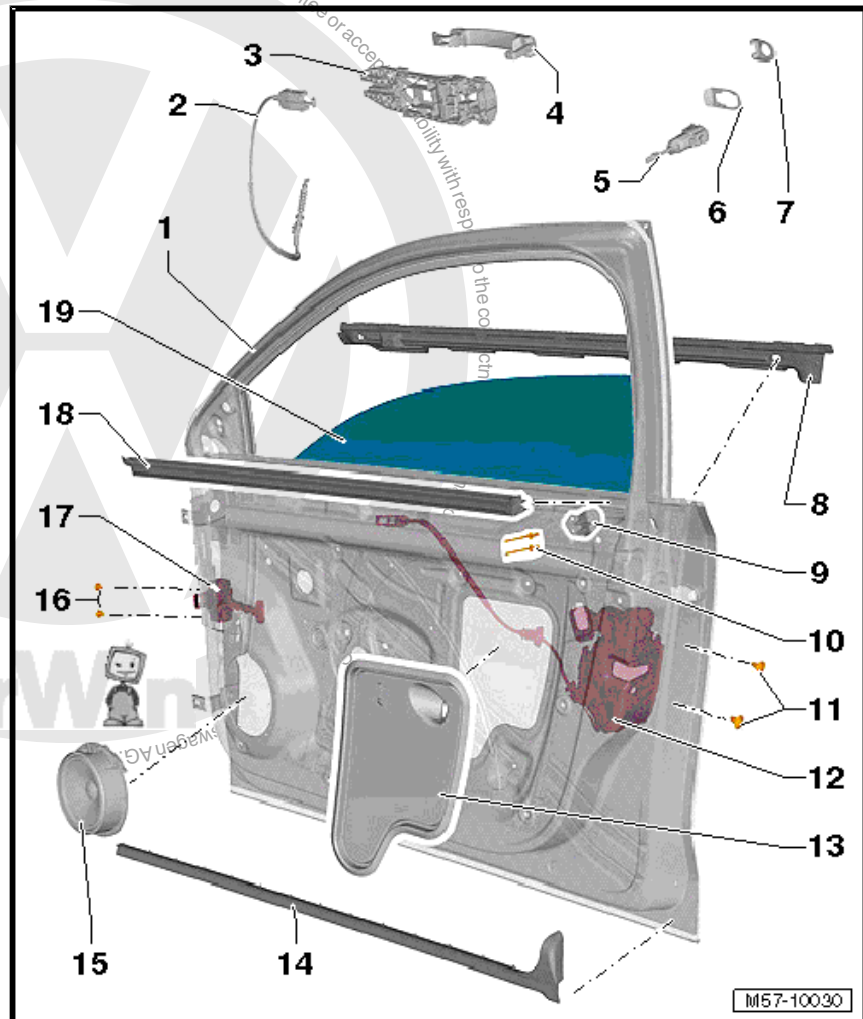
- ☐ Removing and installing ⇒ [page 112](#)

15 - Loudspeaker

- ☐ Riveted into door.

16 - Bolt

- ☐ Qty. 2.





- ❑ Specified torque: 9 Nm

17 - Door retaining strap

- ❑ Removing and installing ➔ [page 88](#)

18 - Window slot inner seal

- ❑ Removing and installing ➔ [page 105](#)

19 - Door window

- ❑ Removing and installing ➔ [page 206](#)

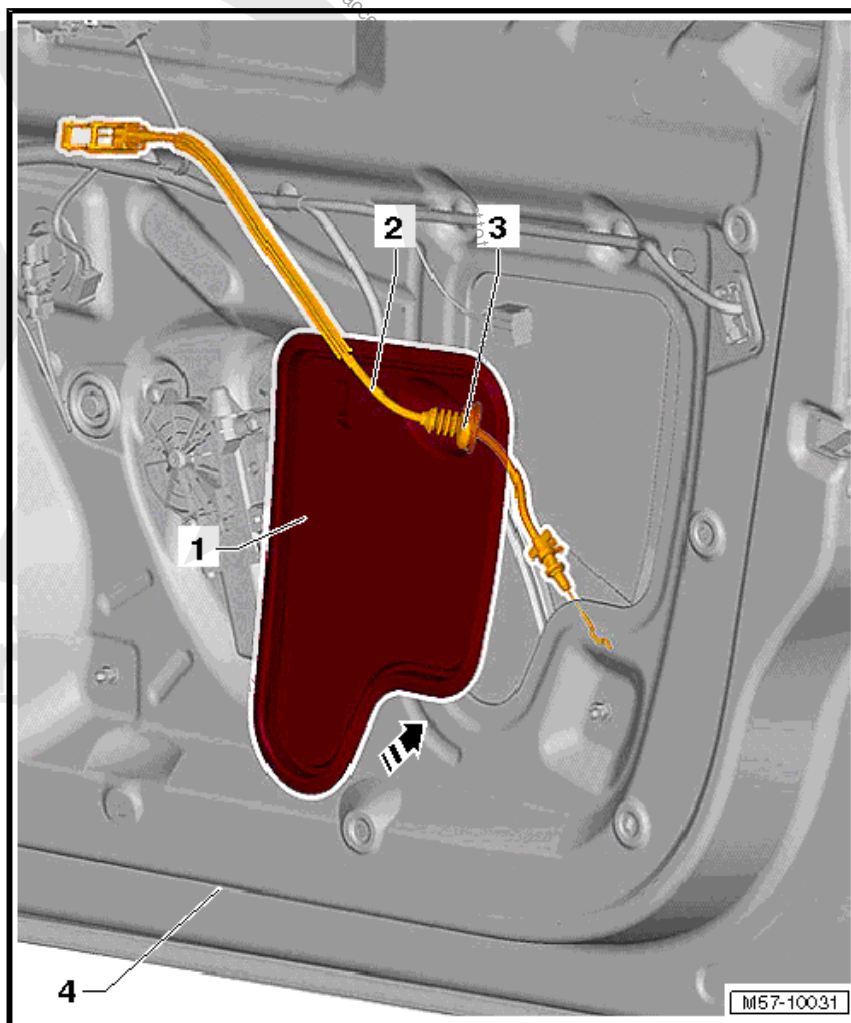
2.3 Removing and installing door cover



Note

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

2.3.1 Removing





Carry out following work:

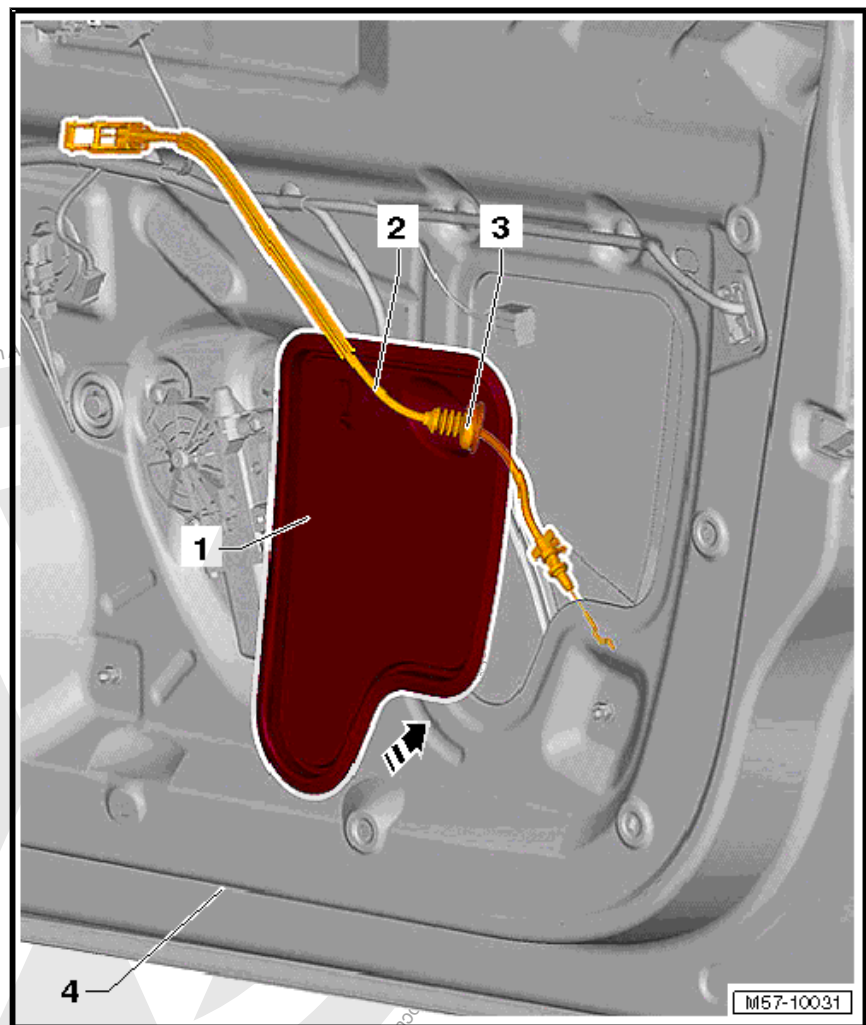
- Removing front door trim ⇒ General body repairs, interior;
Rep. gr. 70 ; Door trim .
- Lift lower end of cover -1-.
- Pull cover -1- downwards and take out of door -4-.



Note

If required for subsequent work, pull cable -2- with grommet -3- out of cover -1- and detach connector (if there is one) at grommet.

2.3.2 Installing



Carry out following work:

- Pull cable -2- through cover -1- and secure grommet -3-.
- Insert cover -1- upwards into door -4-.
- Press cover -1- upwards into door -direction of arrow-.
- Connect connector (if there is one) at grommet -3-.



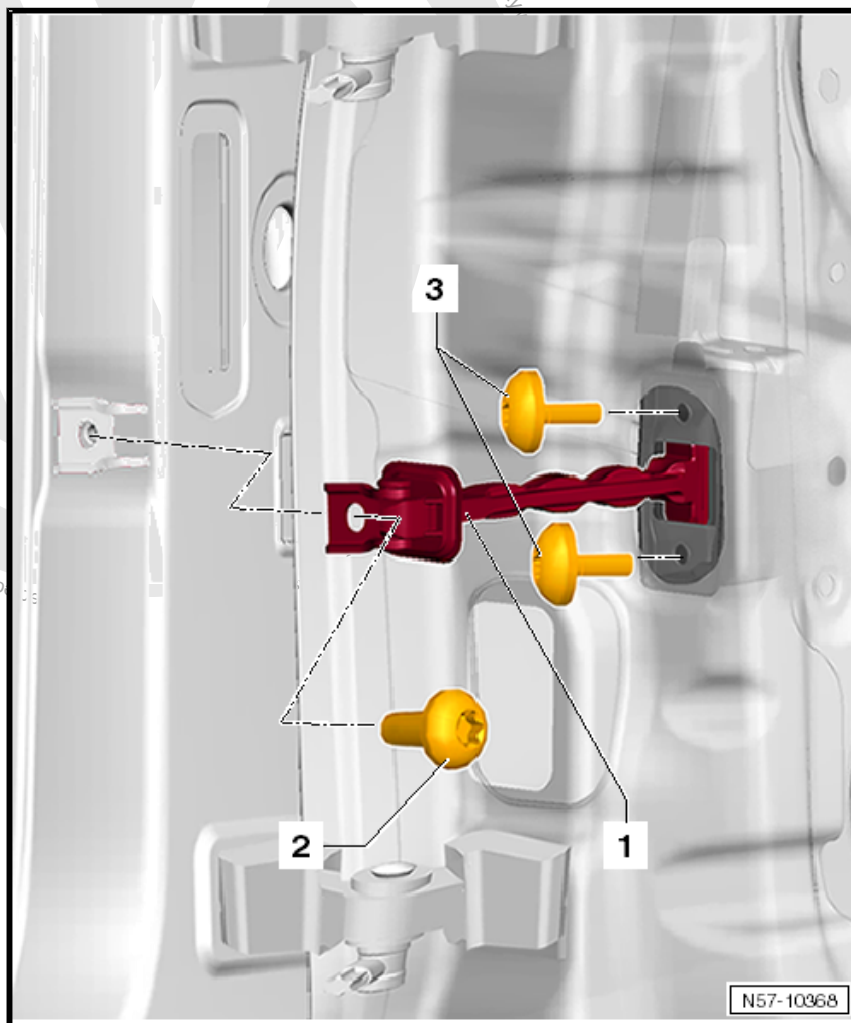
2.4 Removing and installing door retaining strap



Note

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

2.4.1 Removing

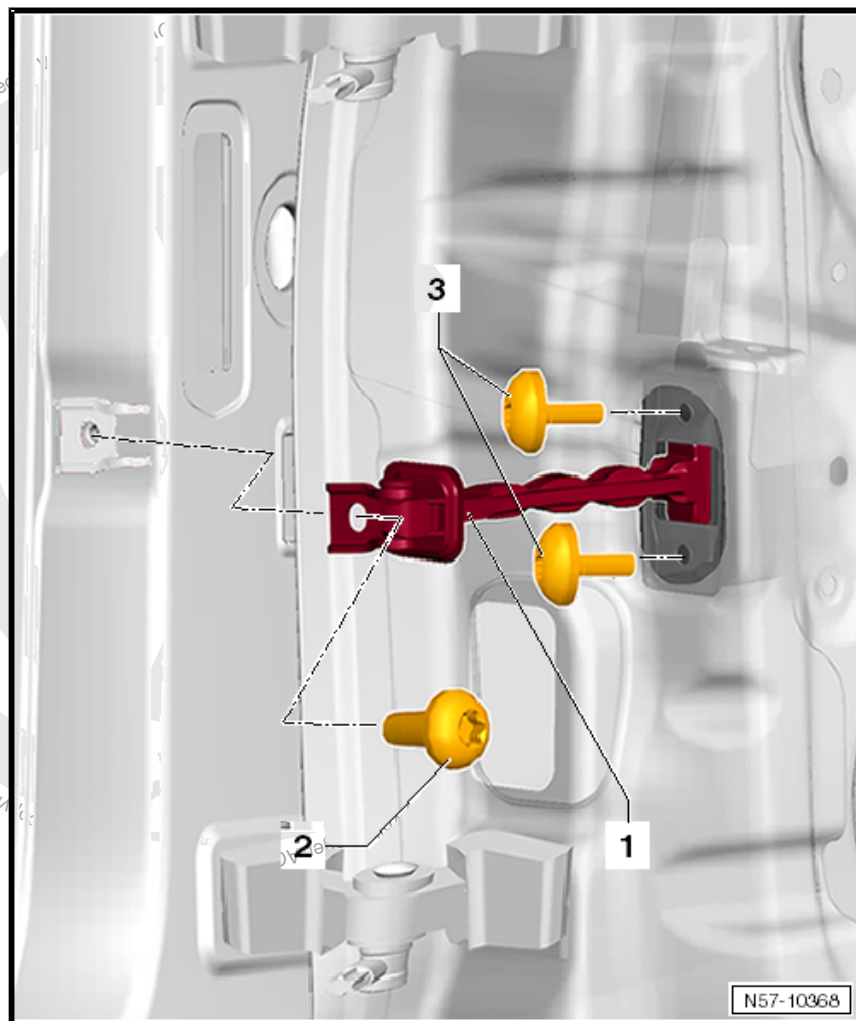


Carry out following work:

- Removing front door trim ⇒ General body repairs, interior;
Rep. gr. 70 ; Door trim .
- Remove riveted loudspeaker.
- Unscrew bolt -2- in A-pillar.
- Unscrew bolts -3- and then remove door retaining strap -1-
through the opening of the loudspeaker.



2.4.2 Installing



Carry out following work:

Install in reverse order of removal.

Specified torque for bolt -2-: 30 Nm.

Specified torque for bolts -3-: 9 Nm.

2.5 Removing and installing striker pin



Note

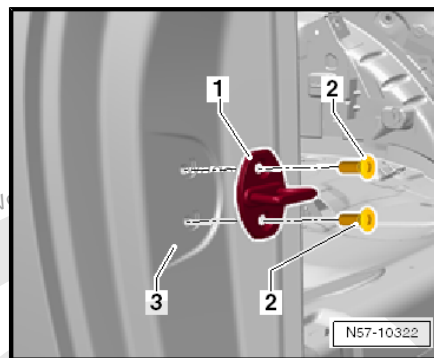
Removal and installation are described only for the right door striker pin. Removal and installation of the left striker pin are similar.



2.5.1 Removing

Carry out following work:

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



2.5.2 Installing

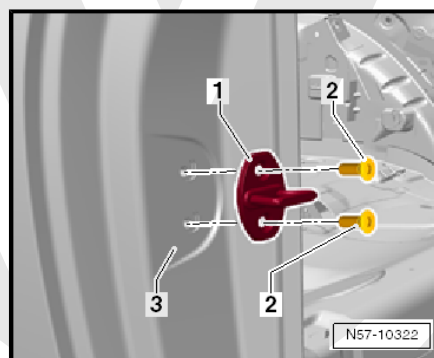
Carry out following work:

- Position striker pin -1- on B-pillar -3- and tighten bolts -2-.



WARNING

A bent striker pin (square U-shape) must be installed.
The U-shape of the striker pin points towards the inside of vehicle.



Specified torque for bolts -2-: 20 Nm.

- Adjust striker pin ⇒ [page 83](#) .



2.6 Assembly overview - door handle and door lock



Note

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

1 - Door lock

- ☐ Removing and installing
⇒ [page 100](#)

2 - Bolt

- ☐ Specified torque: 4 Nm
- ☐ For lock cylinder.

3 - Bearing bracket

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

4 - Lock cylinder

- ☐ Removing and installing
⇒ [page 93](#)
- ☐ Not always installed in front passenger door, depending on the extras in vehicle

5 - Base

6 - Cover

- ☐ Removing and installing with lock cylinder
⇒ [page 92](#)
- ☐ Removing and installing without lock cylinder
⇒ [page 95](#)

7 - Door handle

- ☐ Removing and installing
⇒ [page 98](#)

8 - Bolt

- ☐ Specified torque: 1 Nm
- ☐ Bearing bracket is loosened from door when this bolt is loosened.

9 - Cable

- ☐ From door lock -1- to bearing bracket -3-

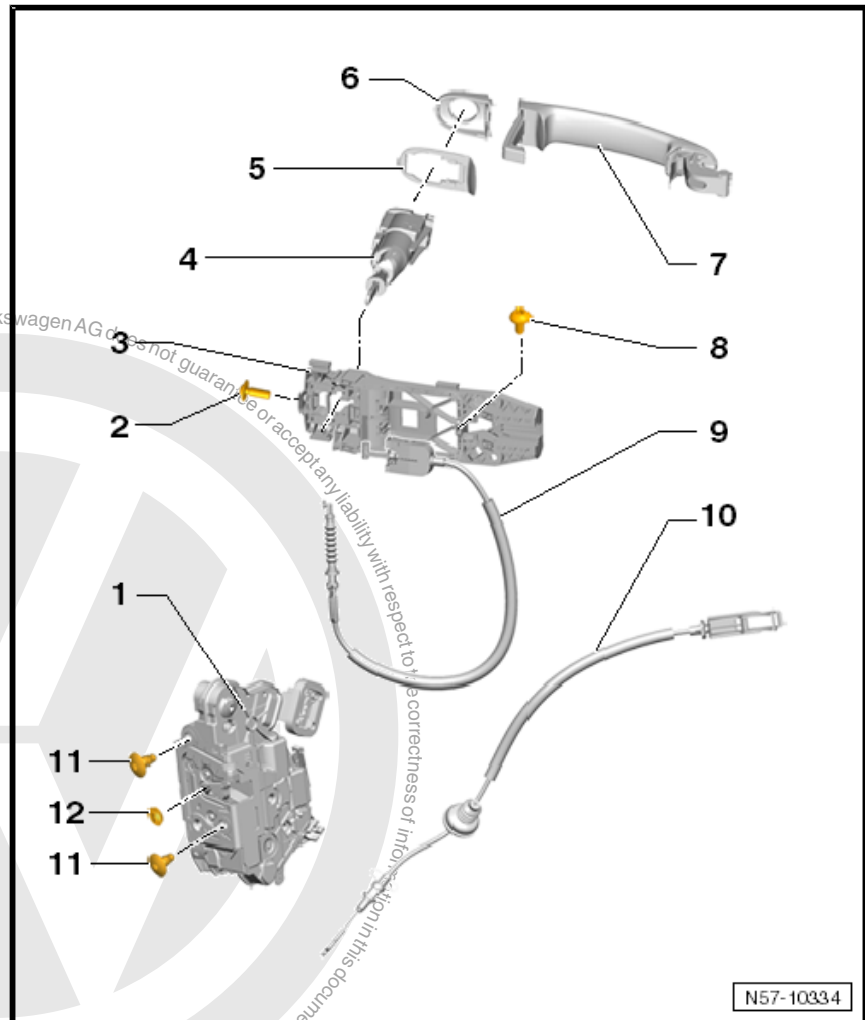
10 - Cable

- ☐ From inner door handle to door lock -1-
- ☐ With grommet to passage on cover.

11 - Bolt

- ☐ Qty. 2.
- ☐ Specified torque: 18 Nm

12 - Cover





2.7 Removing and installing lock cylinder cover cap

2.7.1 Removing

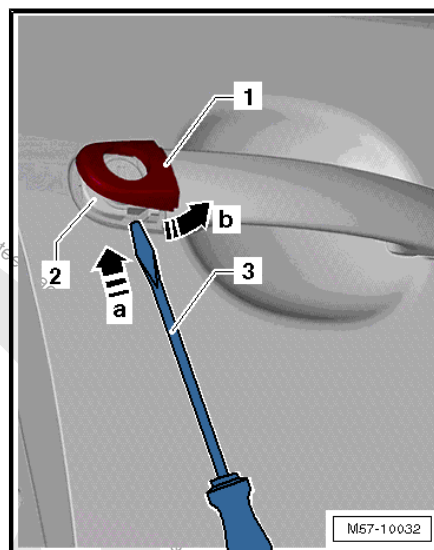


Note

When removing lock cylinder cover cap, the screwdriver should not be turned and the screwdriver should not be used as a lever.

Carry out following work:

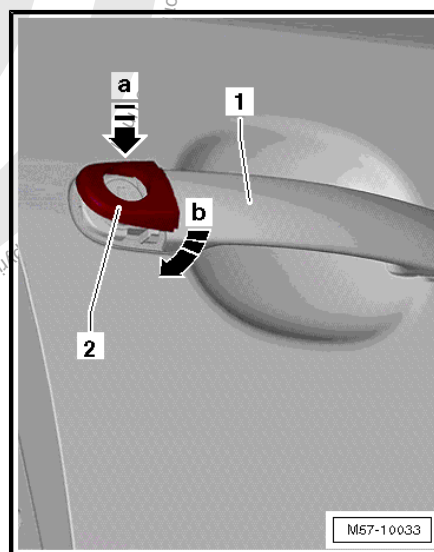
- Pull door handle off door.
- Push a small screwdriver -3- slightly -arrow a- into opening on underside of lock cylinder cover cap -1-.
- Pull lock cylinder housing cover cap -1-, together with small screwdriver, off door lightly from underside -arrow b-.
- Push cover cap upwards off lock cylinder.



2.7.2 Installing

Carry out following work:

- Pull door handle -1- off door.
- Place lock cylinder cover cap -2- from above -arrow a- on lock cylinder at a slight angle.
- Push lock cylinder cover cap -2- on door -arrow b- until cover cap engages in lock cylinder.





2.8 Removing and installing lock cylinder

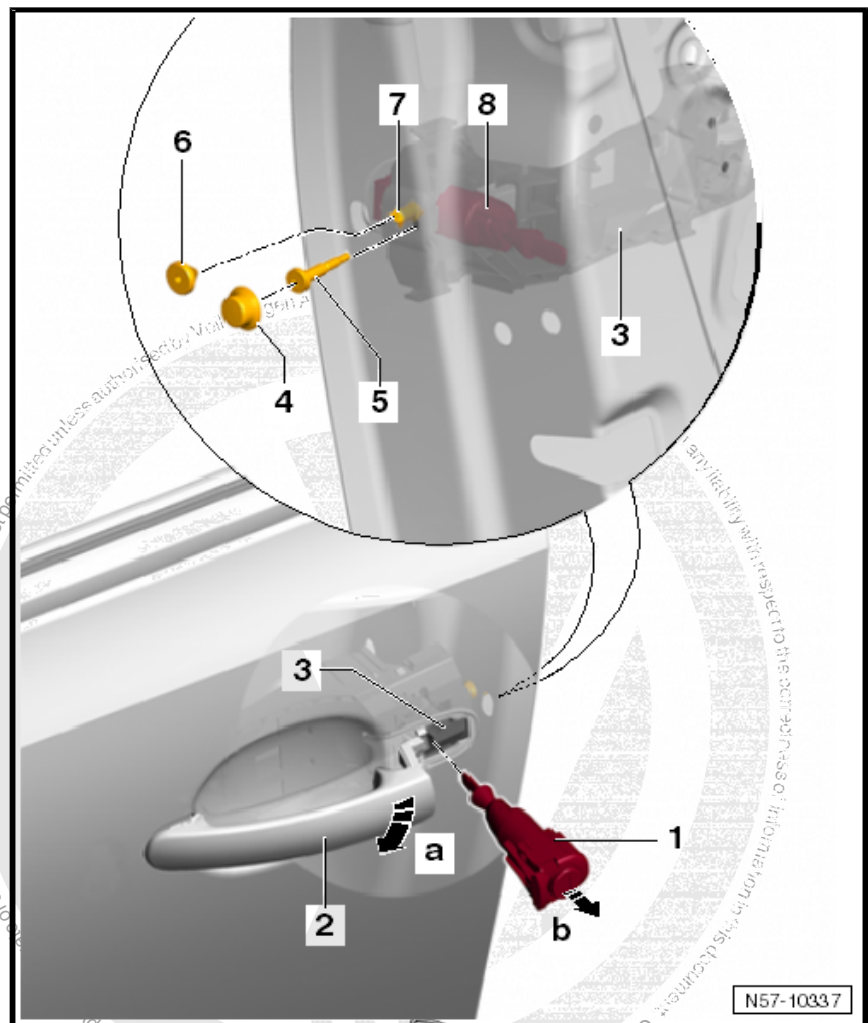
Note

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

2.8.1 Removing

Note

Shapes other than those of the covers shown here -4- and -6- may also be installed.



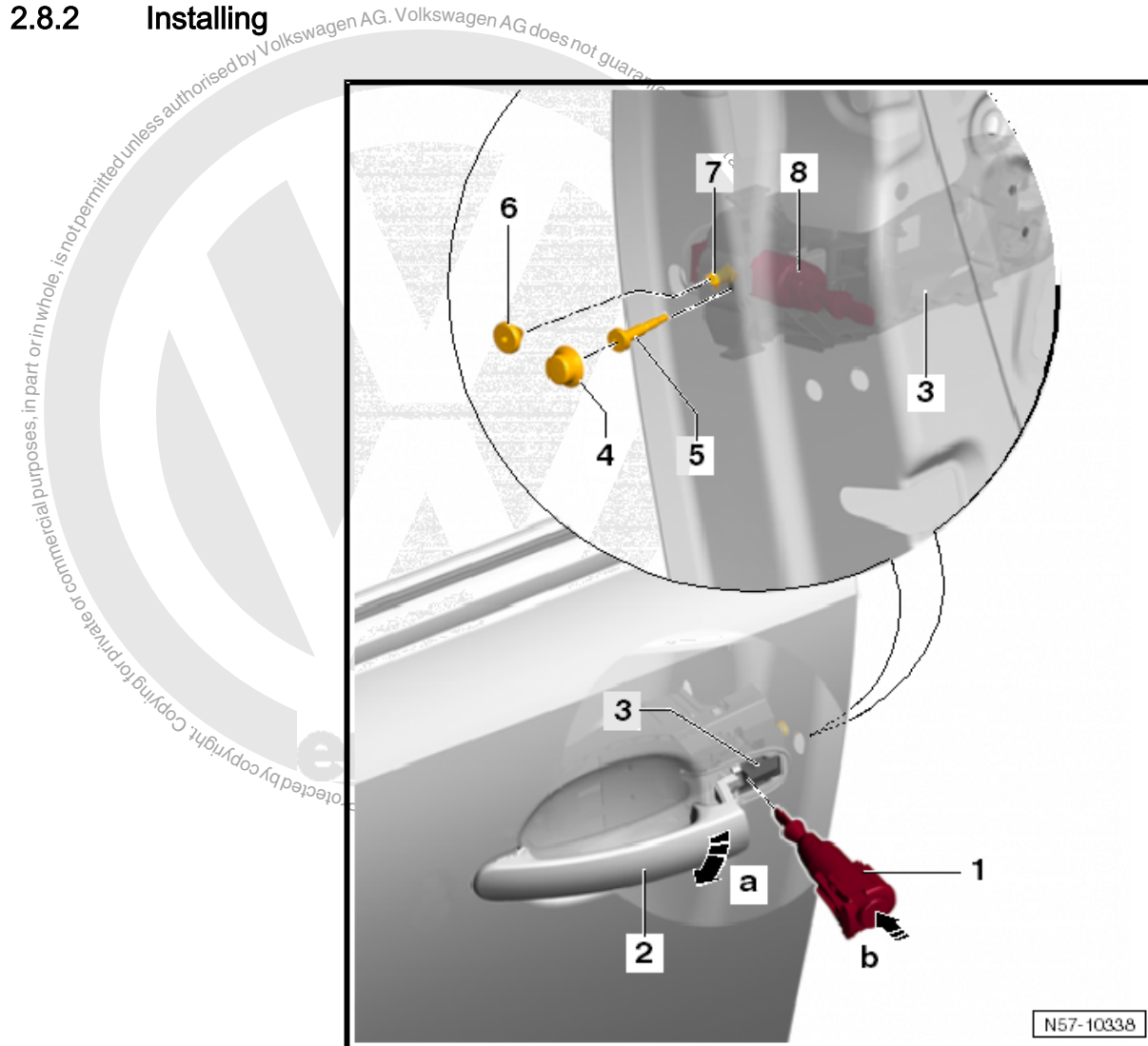
Carry out following work:

- Lock cylinder cover cap has been removed ⇒ [page 92](#).
- Lift covers -4- and -6-.
- Remove bolt -5-.



- Unscrew bolt -7- to stop so that bolt releases lock cylinder.
- Pull door handle -2- off door -8- -arrow a-.
- Pull lock cylinder housing -1- perpendicular -arrow b- to the door out of the bearing bracket -3-.

2.8.2 Installing



Carry out following work:

- Pull door handle -2- off door -8- -arrow a-.
- Insert lock cylinder housing -1- into bearing bracket -3- at a right-angle -arrow b-.
- Screw bolts -5- and -7- into bearing bracket.

Specified torque: Bolts -5- and -7-: 4 Nm



Note

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

Further installation is performed in the reverse order of removal.



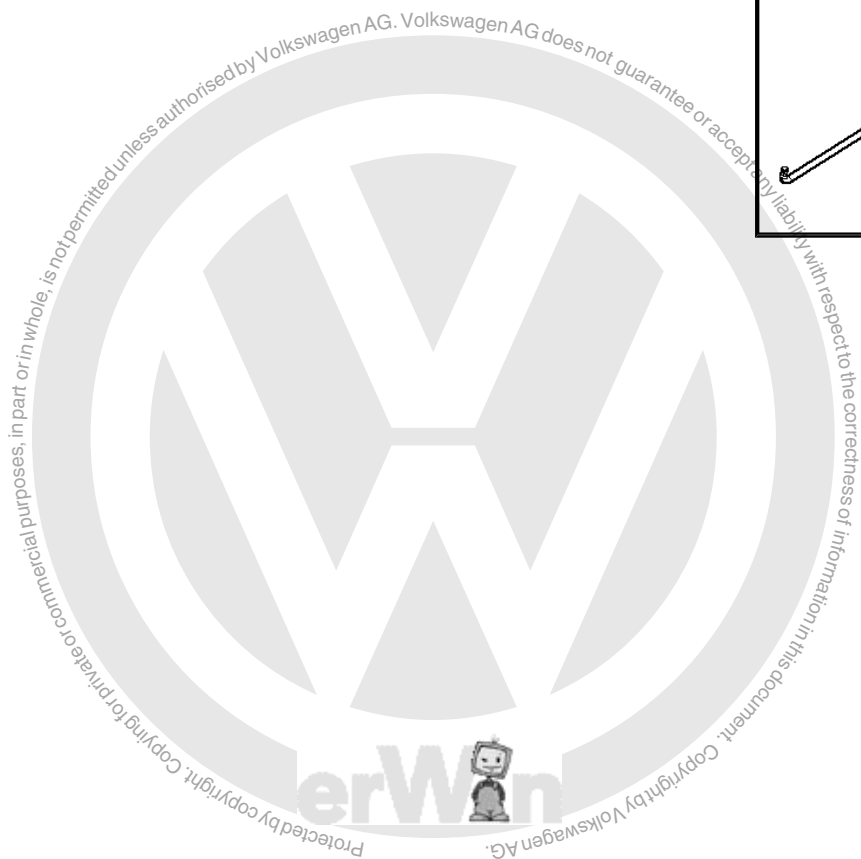
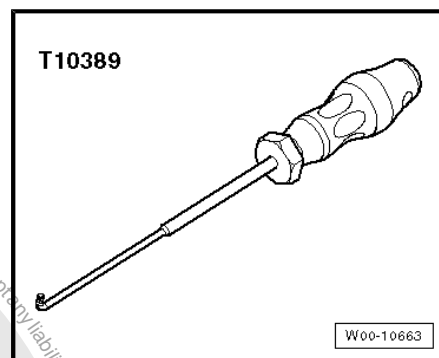
- It is essential that a functional check is then performed with the door open.

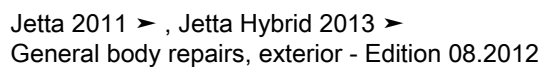
2.9 Removing and installing cover cap (without lock cylinder)

2.9.1 Tools

Special tools and workshop equipment required

- ◆ Assembly tool -T10389-



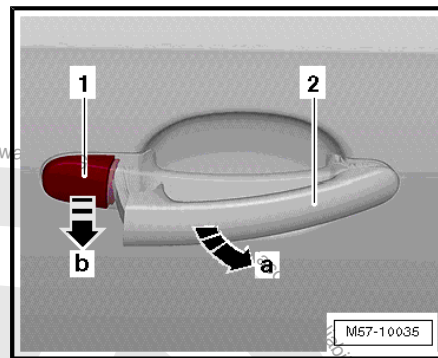


Note

- Remove cover -2-.
- Insert assembly tool -T10389- into door behind locking hook -3- for cover cap -1-.
- Pull assembly tool -T10389- backwards -arrow- until hook releases.



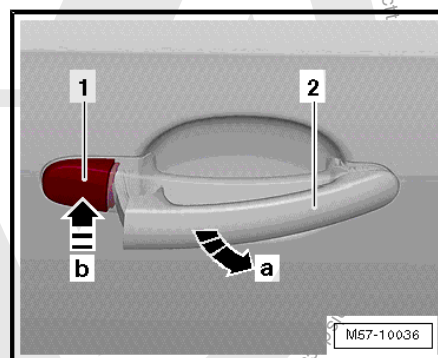
- Pull door handle -2- off door in direction of -arrow a-.
- Pull cover cap -1- out of bearing bracket -arrow b- at a right angle.

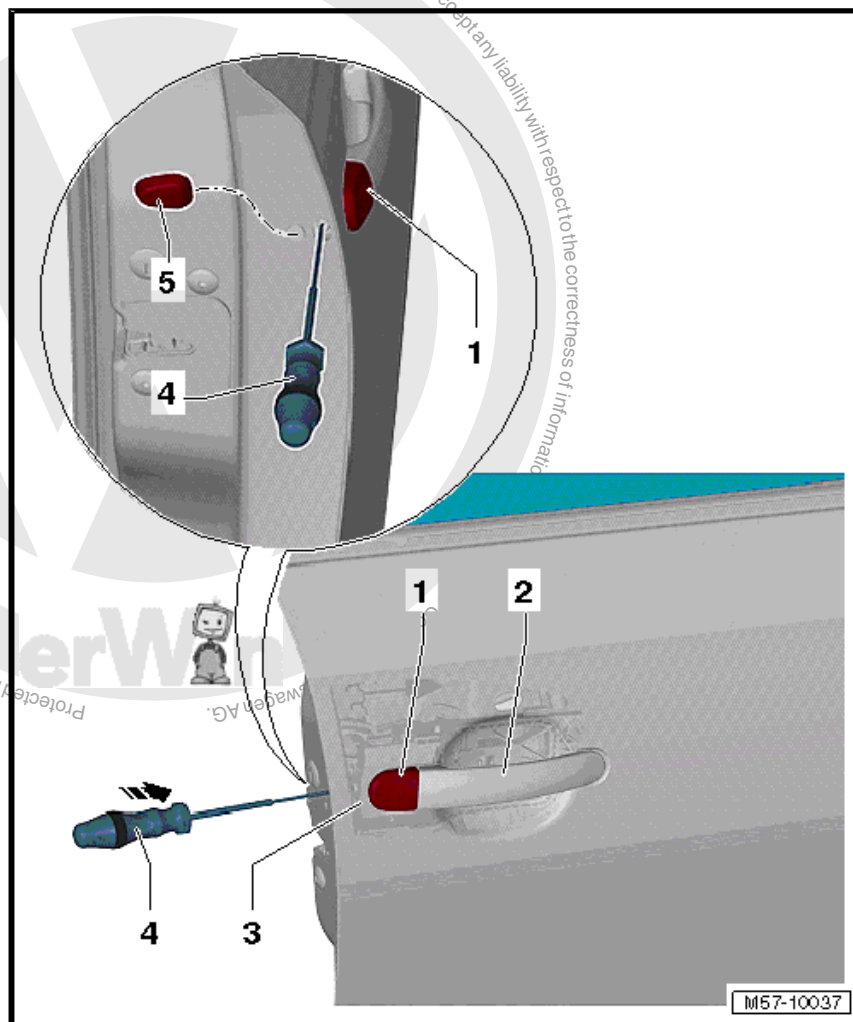


2.9.3 Installing

Carry out following work:

- Pull door handle -2- off door in direction of -arrow a-.
- Push cover cap -1- into bearing bracket -arrow b- at a right angle.





- Insert screwdriver -4- up to locking hook -3- in bearing bracket.
- Press cover cap -1- onto door.
- Push screwdriver -arrow- so far into hole until hook locks in place.
- Fit cover -5-.

2.10 Removing and installing door handle

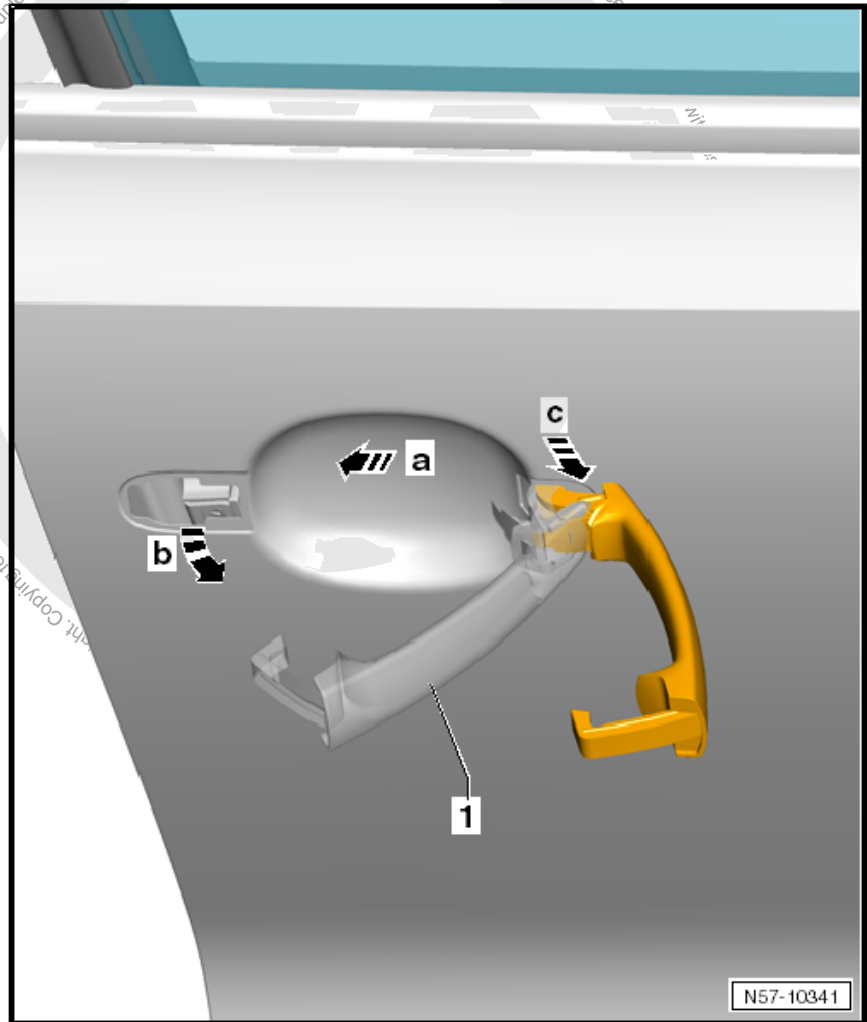


Note

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



2.10.1 Removing

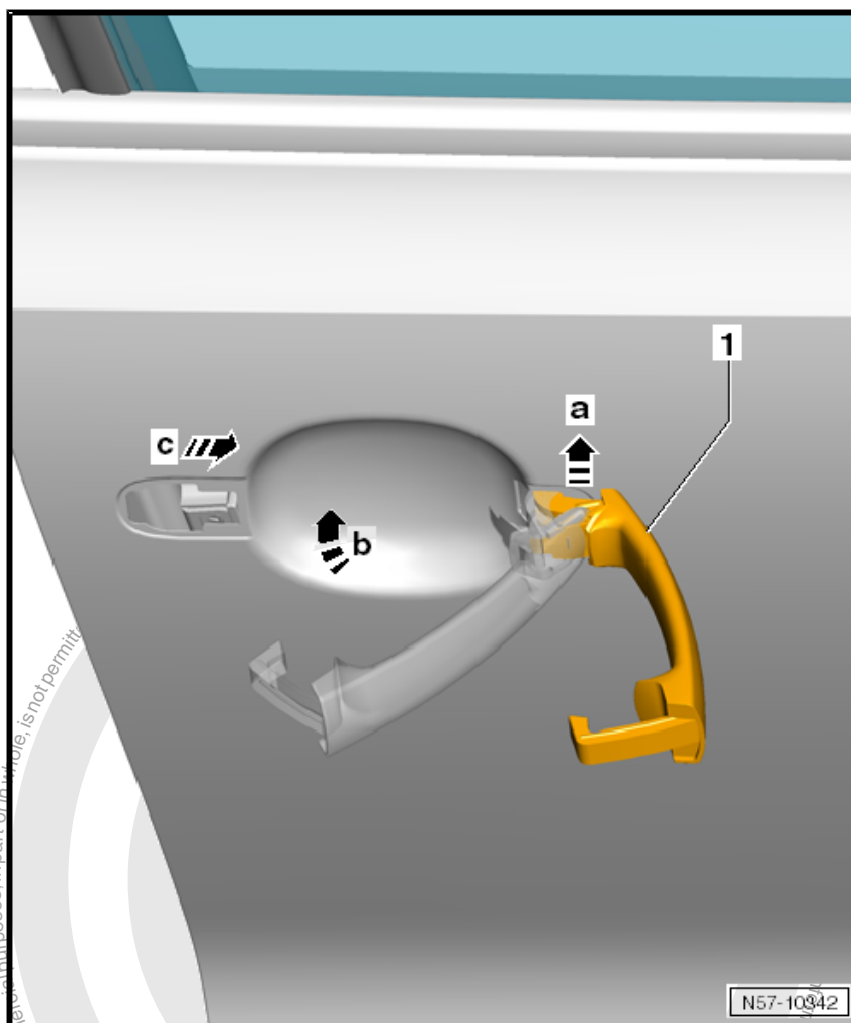


Carry out following work:

- Remove lock cylinder ➤ [page 93](#) or cover cap ➤ [page 95](#) .
- Pull door handle -1- towards rear slightly -arrow a- until it comes out of mounting of bearing bracket.
- Swivel door handle in direction of -arrow b-.
- Remove door handle from bearing bracket at a right angle -arrow c-.
- Pull connector (if there is one) off door handle -1-.



2.10.2 Installing



Carry out following work:

- Connect connector (if there is one) to door handle -1-.
- Seat door handle -1- in bearing bracket, whereby handle must be at right angles to door -arrow a-.
- Swing door handle -1- into door - arrow b-.
- Slide door handle forcibly forwards -arrow c- into mounting of bearing bracket.
- Install lock cylinder ➔ [page 93](#) or cover cap ➔ [page 95](#) .
- It is essential that a functional check is then performed with the door open.

2.11 Removing and installing door lock

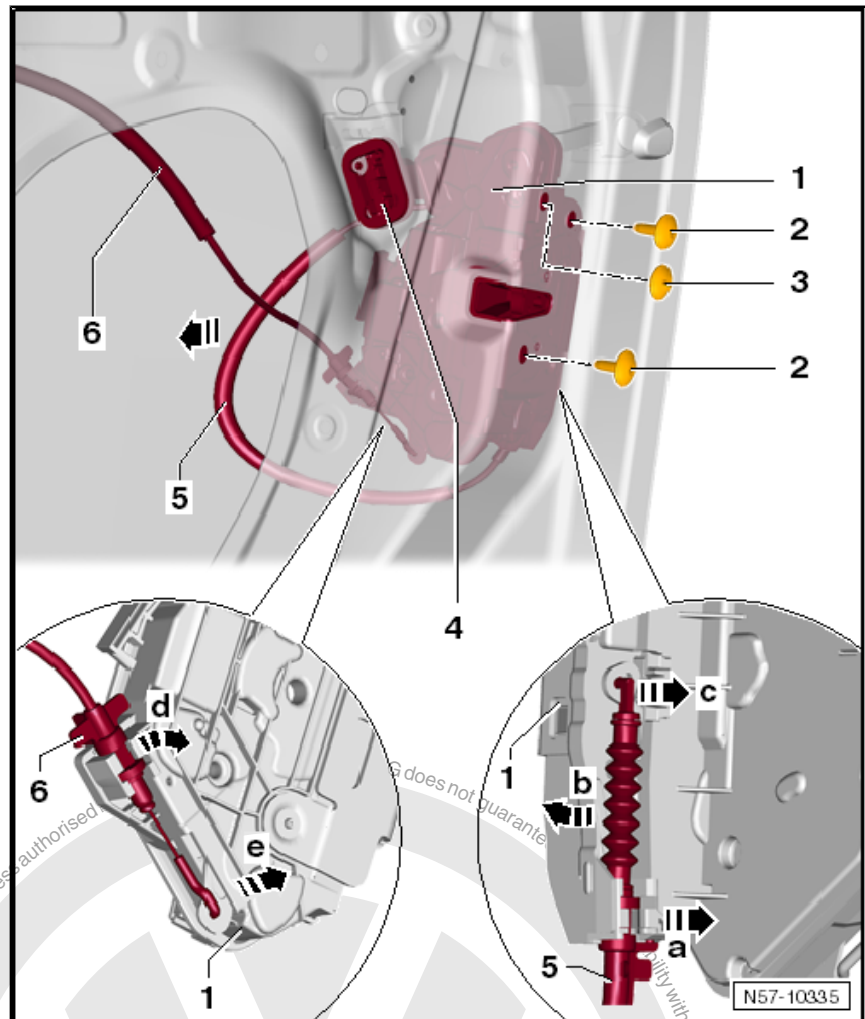


Note

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



2.11.1 Removing



Carry out following work:

- Remove cover ➤ [page 86](#) .
- Unclip cover -3-.
- Disconnect connector -4-.
- Remove lock cylinder if it is built into door ➤ [page 93](#) .
- Remove bolts -2-.
- Remove door lock -1- from door.



Note

Cables can be detached if this is necessary for subsequent work.

Detach cable from bearing bracket

- If fitted, unclip door lock cover cap.
- Turn cable -5- 90° and take it out of holding device -arrow a-.



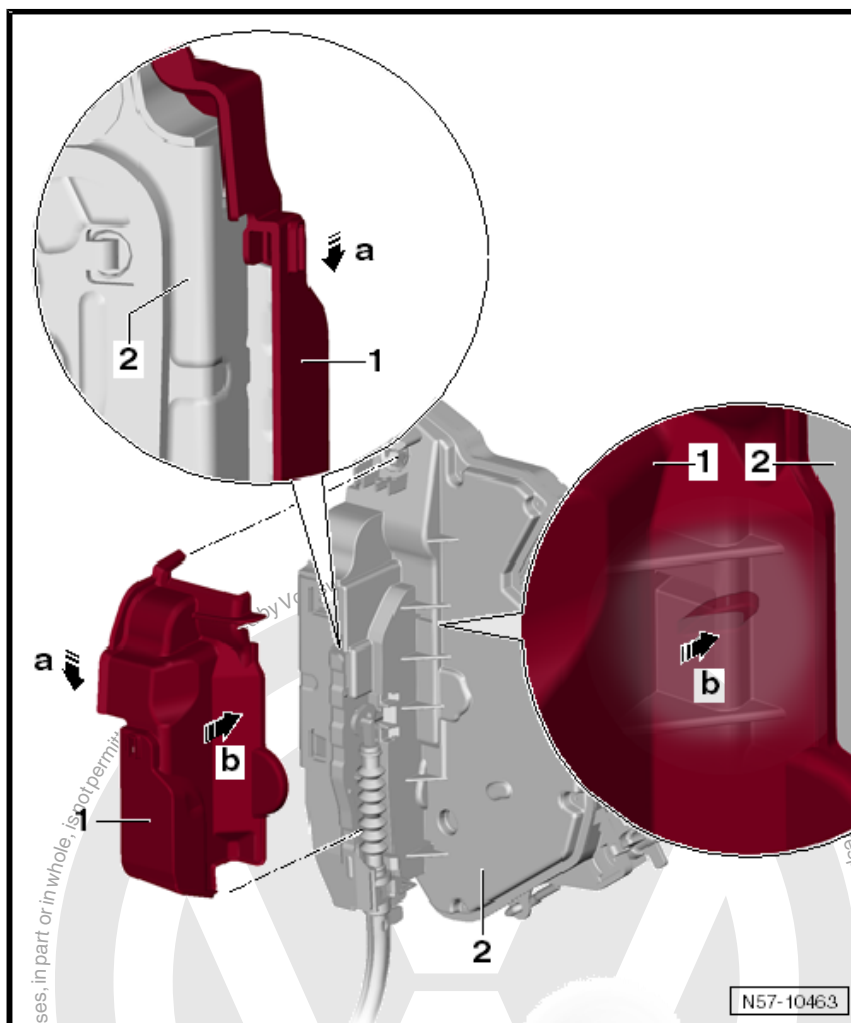
- Swivel cable -arrow b- so far until cable can be threaded out of eye in door lock -1- -arrow c-.

Detach cable from interior door handle

- Turn cable -6- 90° and take it out of holding device.
- Swivel cable -arrow d- so far until cable can be threaded out of eye in door lock -1- -arrow e-.

2.11.2 Installing

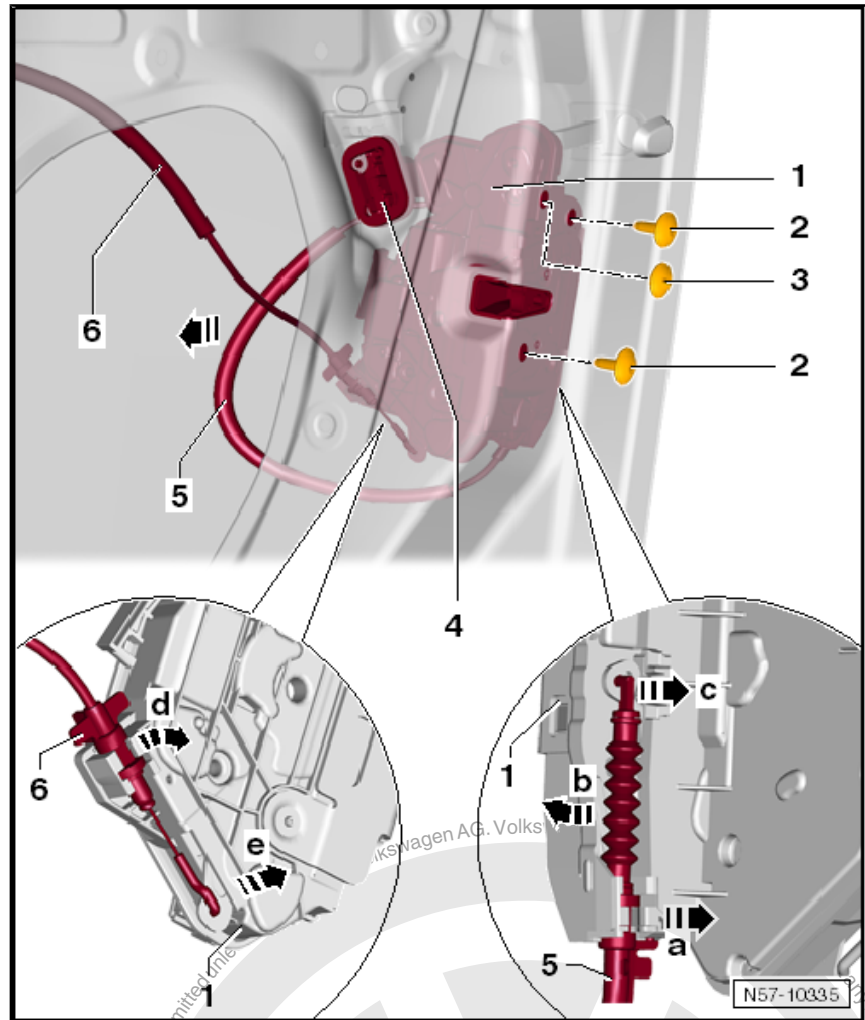
Carry out following work:



Note

Ensure that cover cap is fitted before door lock is installed.

- Push cover cap -1- onto guide on door lock -2- -arrow a-.
- Engage cover cap -1- in middle area of door lock -2- -arrow b-.



Install in reverse order of removal.

Specified torque for bolts -2-: 18 Nm.

- It is essential that a functional test is then carried out because the door lock is not released if the cables are not correctly adjusted and locked and the door cannot then be opened.

2.12 Removing and installing bearing bracket

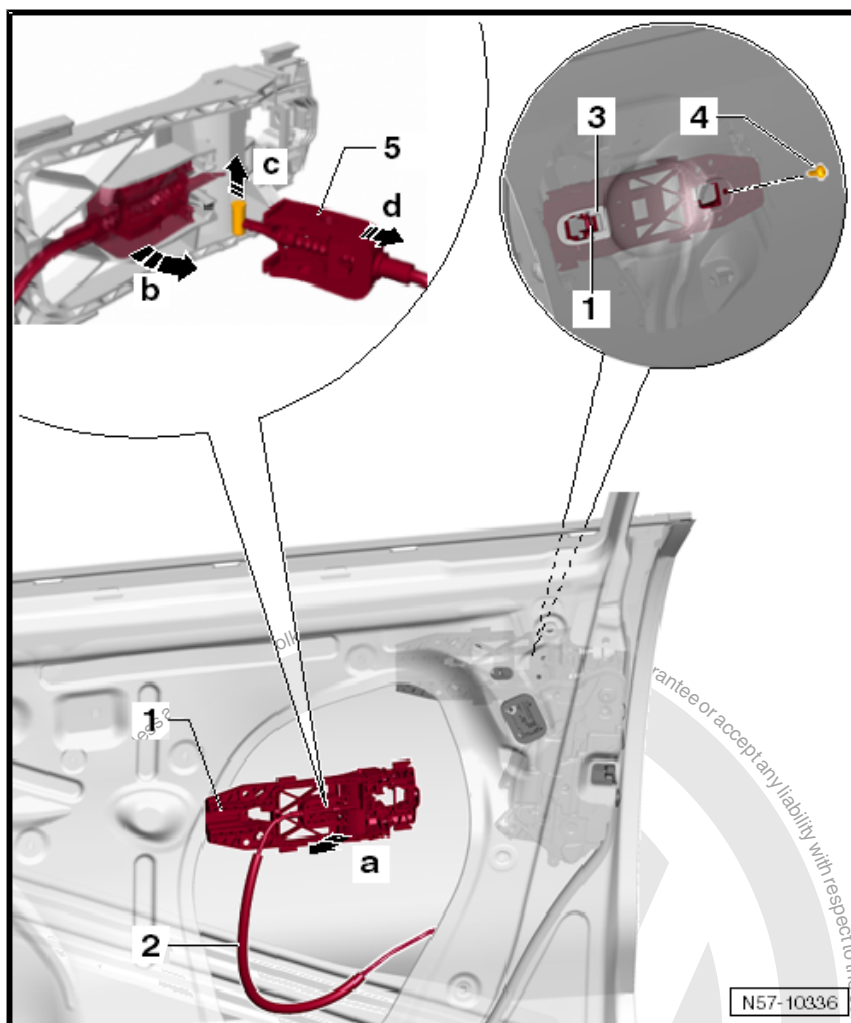


Note

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



2.12.1 Removing



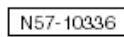
Carry out following work:

- Remove cover ⇒ [page 86](#) .
- Remove lock cylinder ⇒ [page 93](#) or cover cap ⇒ [page 95](#) .
- Remove door handle ⇒ [page 98](#) .
- Unscrew bolt -4- and remove base -3-.
- Remove bearing bracket -1- from door -arrow a-.

Detach cable

- Release holding device -5- and swivel it out of mounting in bearing bracket -arrow b-.
- Lift cable bolt out of mounting -arrow c-.
- Take cable -2- out of bearing bracket -1- -arrow d-.

Volkswagen AG. Volkswagen AG do.



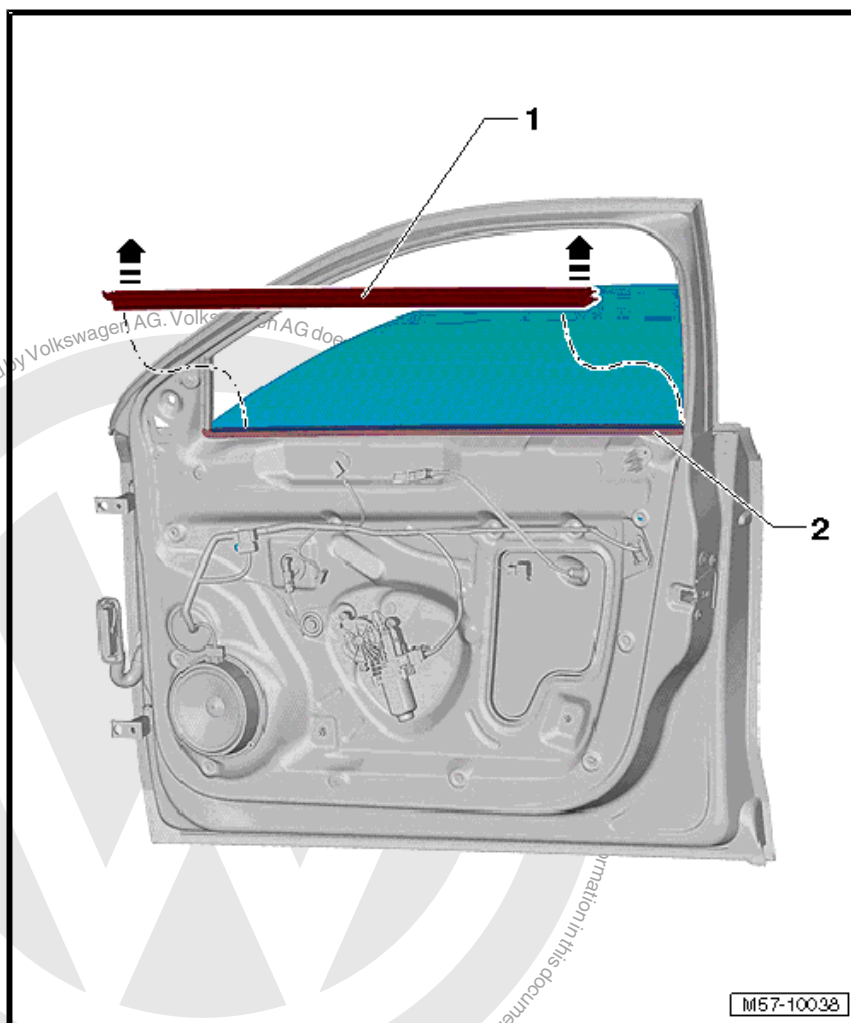
2.13 Removing and installing window slot inner seal



2. Door components 105



2.13.1 Removing

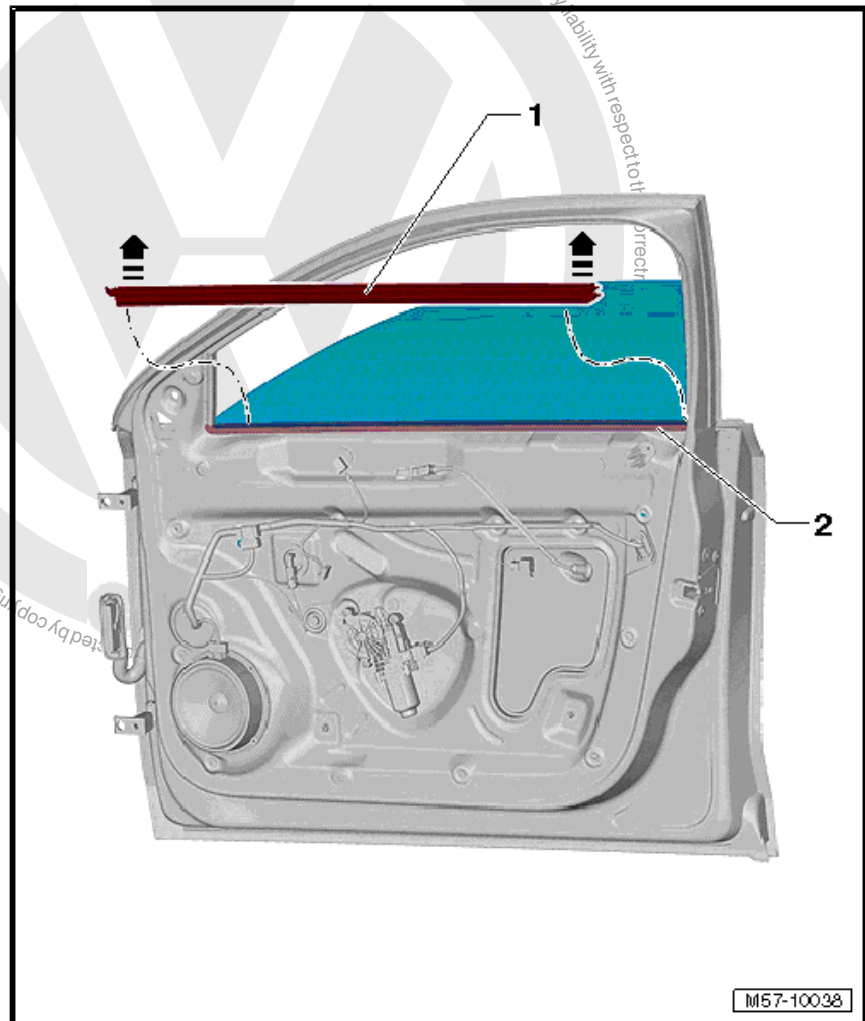


Carry out following work:

- Removing front door trim ⇒ General body repairs, interior, Rep. gr. 70 ; Door trim .
- Pull seal -1- uniformly -arrows- off door flange -2-.

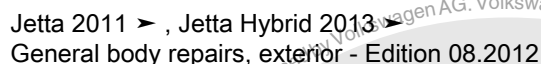


2.13.2 Installing



Carry out following work:

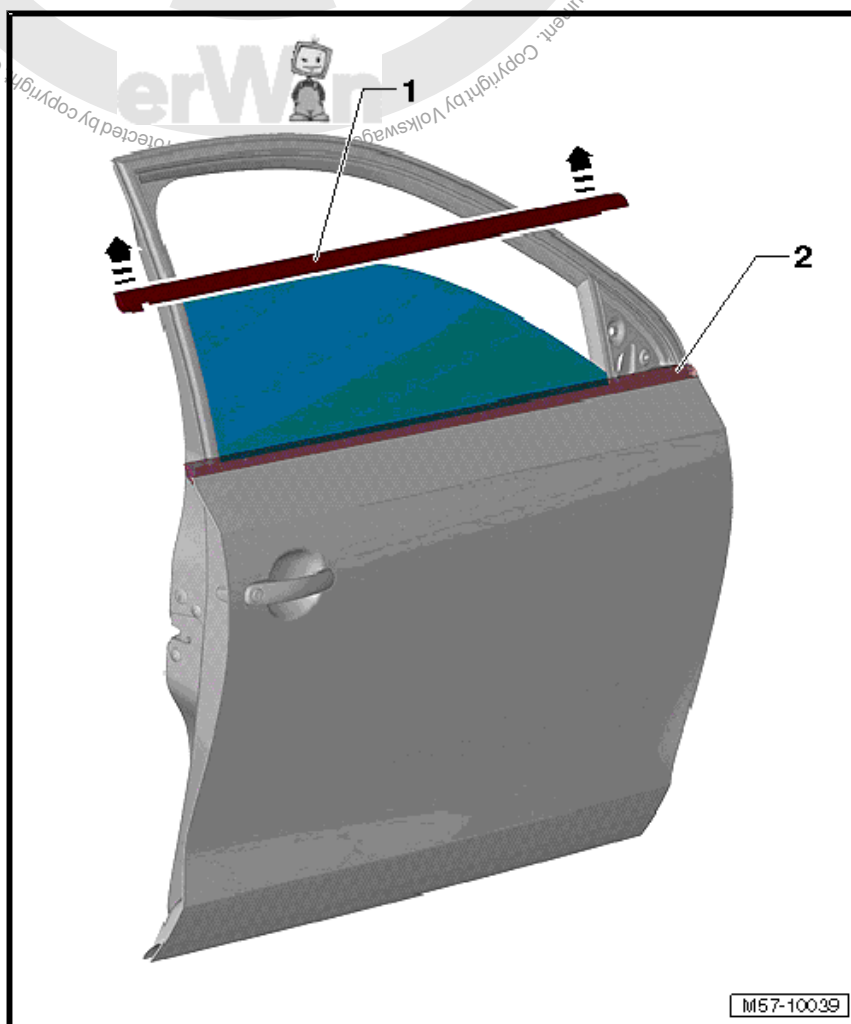
- Push seal -1- evenly onto door flange -2- by hand, starting from B-pillar.
- Install front door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trims .



2.14.1 Removing



- ◆ *The core of the seal is a metal insert.*
- ◆ *If this is bent, the seal can no longer be straightened out. It will remain "wavy".*
- ◆ *Therefore, the seal must be pulled off and pressed on evenly, without bending or distorting it.*
- ◆ *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.*

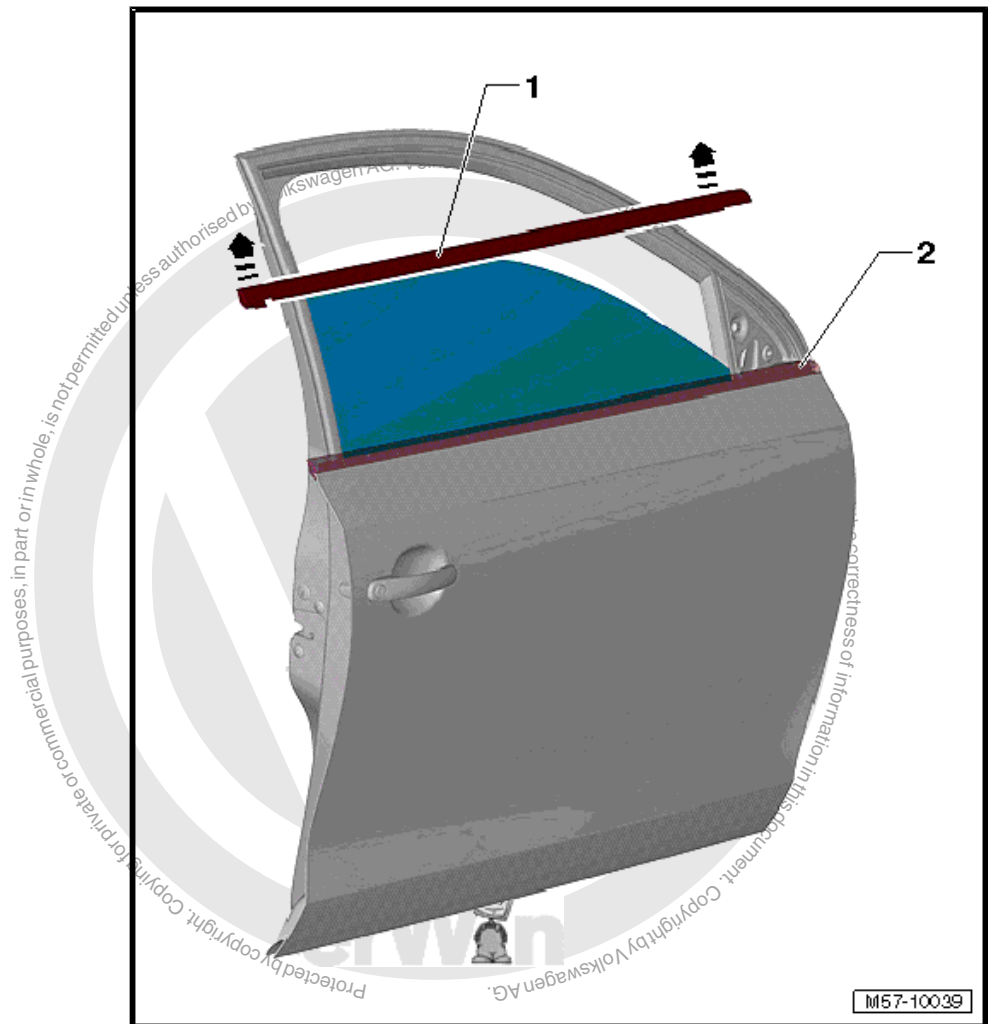




Carry out following work:

- Remove exterior mirror, manual operation ➔ [page 252](#) , electrical operation ➔ [page 256](#) .
- Pull seal -1- uniformly -arrows- off door flange -2-.

2.14.2 Installing



Carry out following work:

- Align seal -1- with B-pillar and press evenly onto door flange -2- by hand.
- Install exterior mirror, manual operation ➔ [page 252](#) , electrical operation ➔ [page 256](#) .

2.15 Removing and installing door inner seal

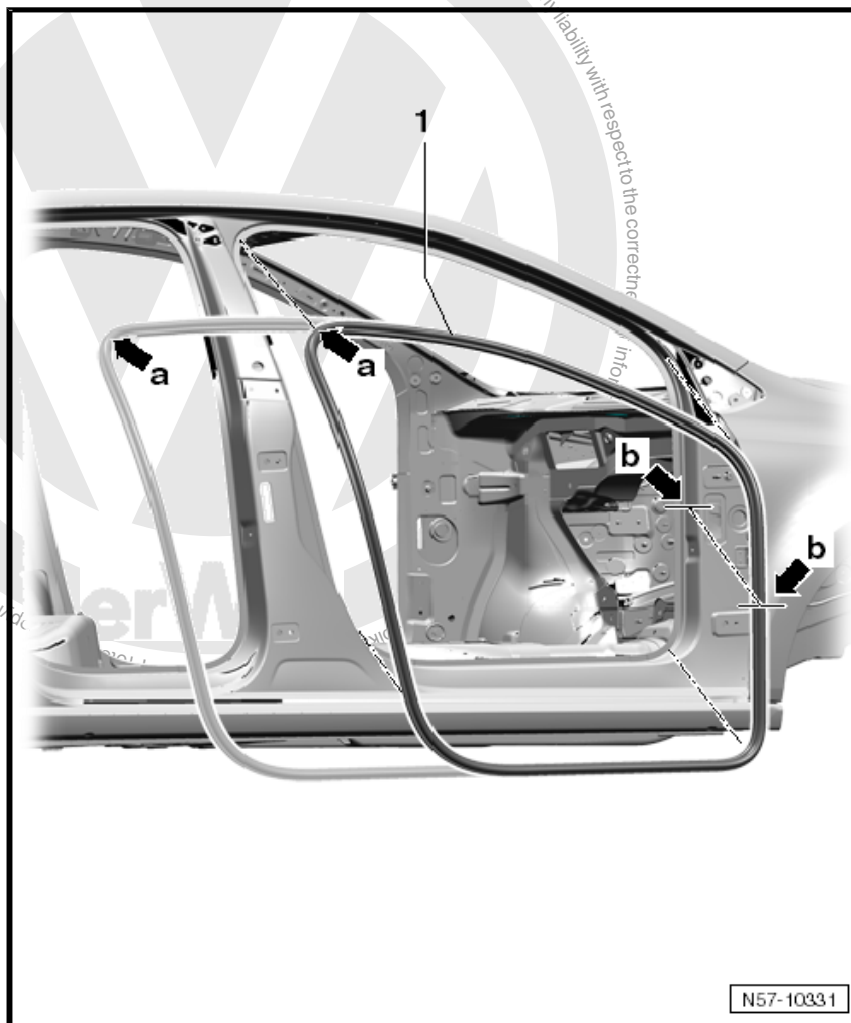
During production, a sealant is applied to the door inner seals, which are then placed on the door flange and rolled on.



Note

- ◆ When removing the seal, the sealant is distributed across the inside of the seal. The sides are bent upwards slightly when this is being done. If the seal is then refitted, sealing and firm seating are no longer guaranteed.
- ◆ Therefore, each seal that is completely removed must be replaced with a seal known as a "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.

2.15.1 Removing



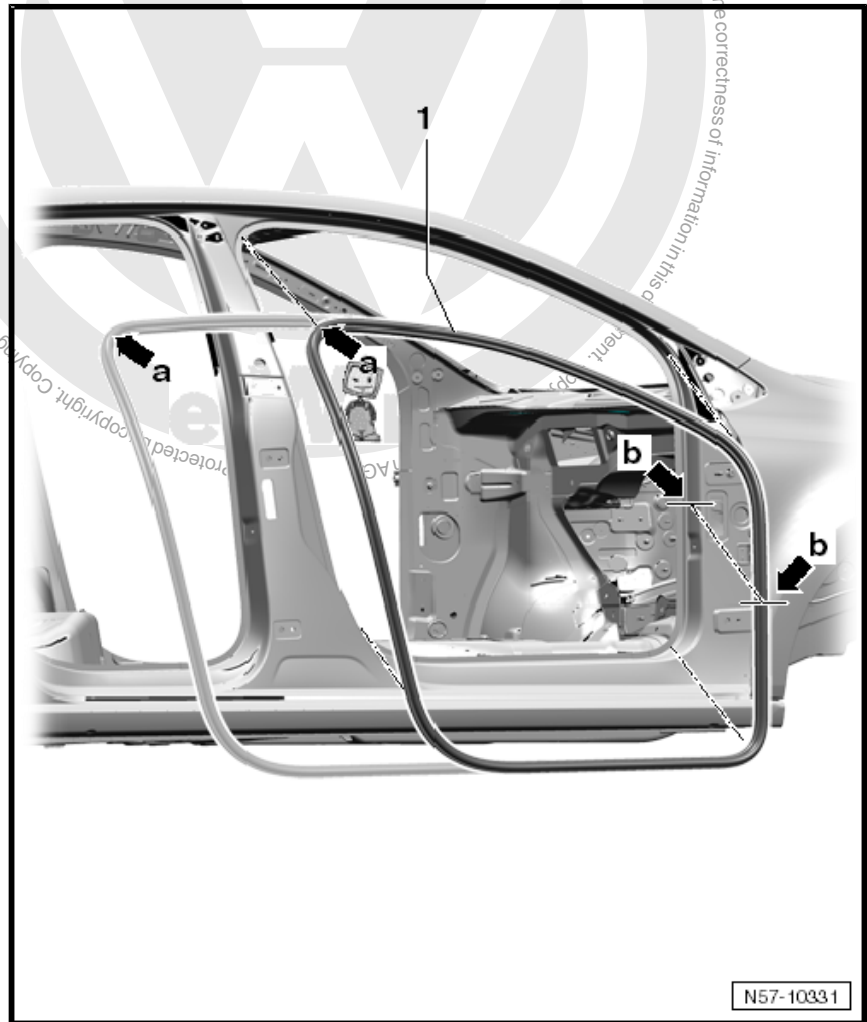
Carry out following work:

- To remove door inner seal, remove pillar trims as required ⇒ General body repairs, interior; Rep. gr. 70 ; Pillar and side trims



- Remove sill panel strip ⇒ General body repairs, interior; Rep. gr. 68 ; Sill panel strips .
- Pull door inner seal -1- off body flange.

2.15.2 Installing



Carry out following work:

- Align door inner seal -1- so that vulcanised point -arrow b- is at same height as upper hinge -arrow b-.
- Start installing door inner seal at top radius of door aperture -arrow a-.
- Install sill panel strip ⇒ General body repairs, interior; Rep. gr. 68 ; Sill panel strips .
- Remove side panels ⇒ General body repairs, interior; Rep. gr. 70 ; Pillar and side panel trim .



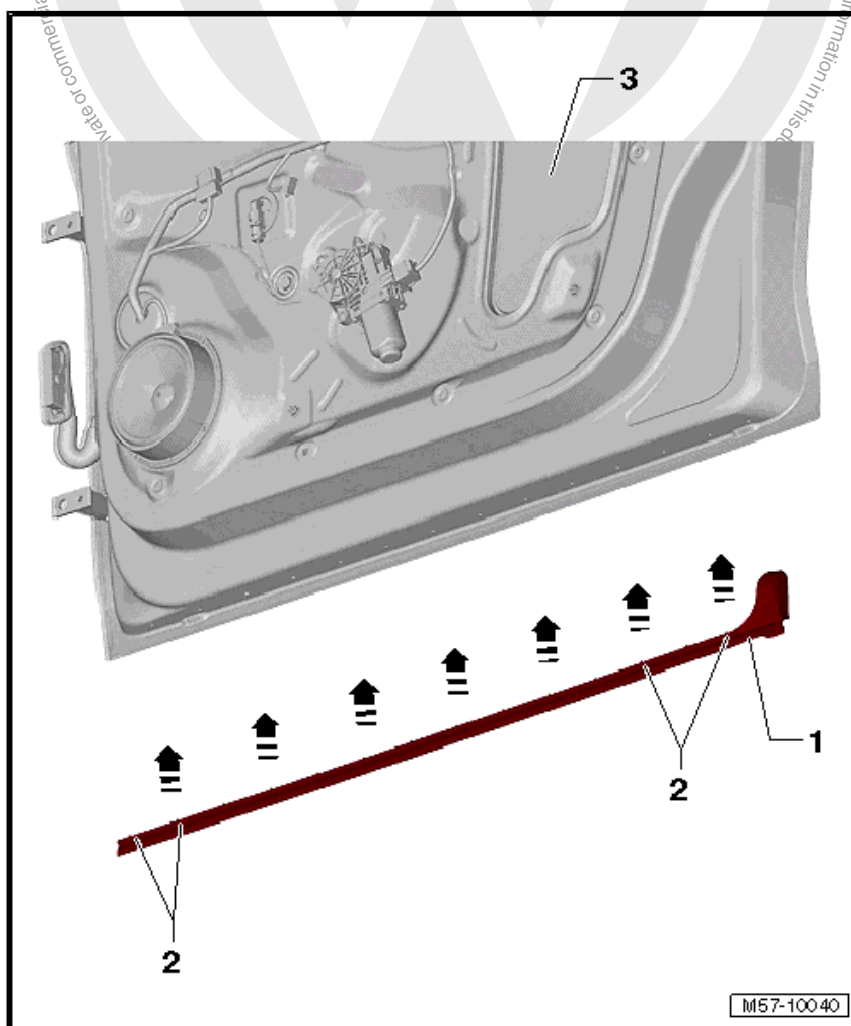
2.16 Removing and installing door outer seal



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 securing door outer seal for damage, renew if necessary.

2.16.1 Removing

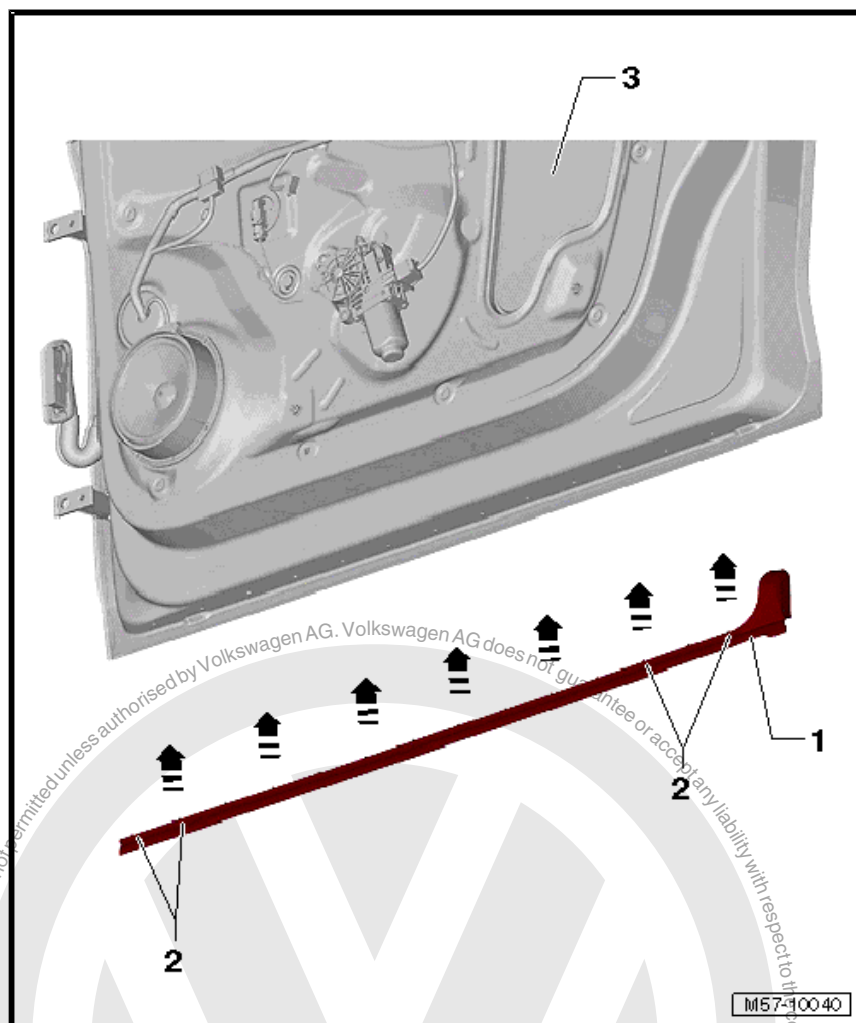


Carry out following work:

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



2.16.2 Installing



Carry out following work:

- The clips -2- are not damaged, otherwise renew.
- Press seal -1- with clips -2- onto door -3- beginning at A-pillar.



2.17 Assembly overview - insulation



WARNING

Before installing door trim, check that the holes in the door panel are sealed with respective stickers ➔ [page 114](#).

1 - Insulation

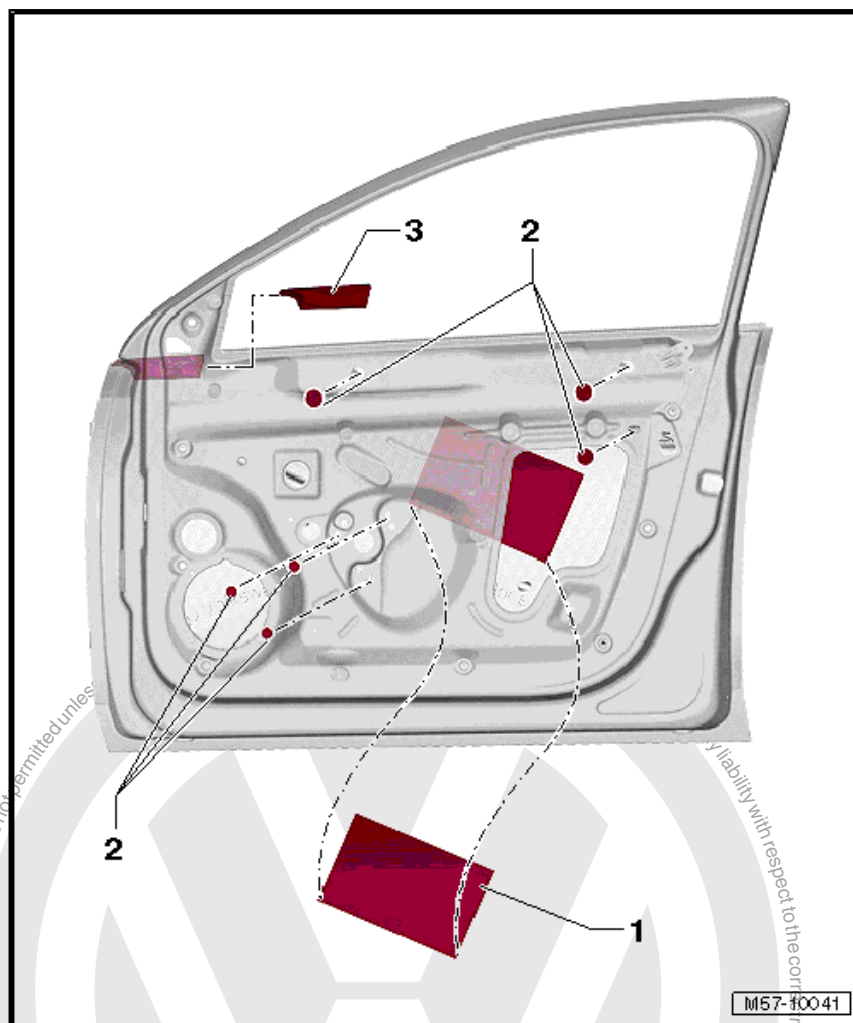
- ☐ Self-adhesive.
- ☐ Installing:
 - Cut to size if necessary.
 - Warm using hot air blower -V.A.G 1416- and push on to outer door panel with force.

2 - Sticker

- ☐ If necessary, manufacture using commercially available textile adhesive tape.

3 - Foam element

- ☐ Jammed into door.





3 Central locking

3.1 Fitting location overview - central locking components

1 - Coupling station

- ☐ Fitting location: left A-pillar
- ☐ To separate connections, release bellows at pillar.

2 - Front passenger door control unit -J387-

- ☐ Integrated in window regulator motor, front passenger side -V148-
- ☐ Removing and installing ⇒ [page 212](#)

3 - Door lock on front passenger side

- ☐ Door lock is secured to inner part of door.
- ☐ Electric central locking is integrated into door lock.
- ☐ Removing and installing ⇒ [page 100](#)

4 - Coupling station

- ☐ Fitting location: right B-pillar.
- ☐ To separate connections, release bellows at pillar.

5 - Rear right door control unit -J389-

- ☐ Integrated in rear right window regulator motor -V27-
- ☐ Removing and installing ⇒ [page 225](#)

6 - Rear right door lock

- ☐ Door lock is secured to inner part of door.
- ☐ Electric central locking is integrated into door lock.
- ☐ Removing and installing ⇒ [page 140](#)

7 - Tank filler flap locking motor -V155-

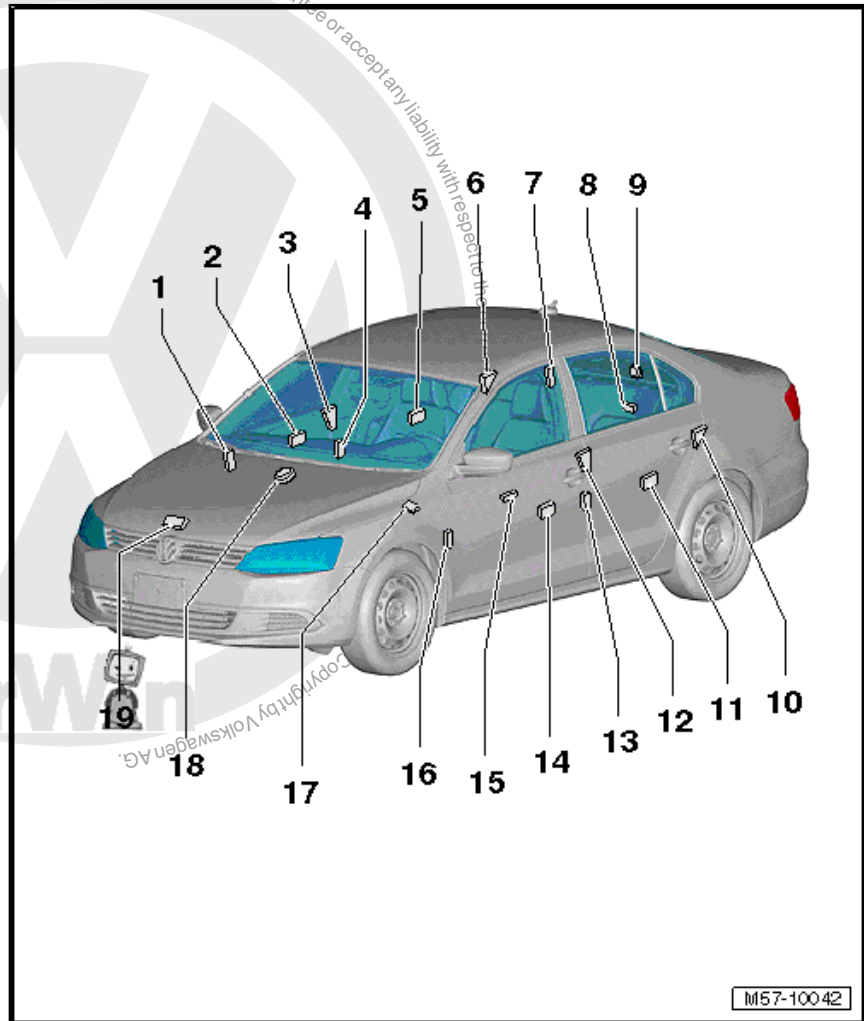
- ☐ Removing and installing ⇒ [page 73](#)

8 - Rear lid lock

- ☐ Fitting location: on rear lid
- ☐ Removing and installing ⇒ [page 66](#)

9 - Rear lid handle release button -E234-

- ☐ Fitting location: on rear lid
- ☐ Removing and installing ⇒ [page 65](#)



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10 - Rear left door lock

- ☐ Door lock is secured to inner part of door.
- ☐ Electric central locking is integrated into door lock.
- ☐ Removing and installing ⇒ [page 140](#)

11 - Rear left door control unit -J388-

- ☐ Integrated in rear left window regulator motor -V26-
- ☐ Removing and installing ⇒ [page 225](#)

12 - Door lock on driver side

- ☐ Door lock is secured to inner part of door.
- ☐ Electric central locking is integrated into door lock.
- ☐ Removing and installing ⇒ [page 100](#)

13 - Coupling station

- ☐ Fitting location: left B-pillar
- ☐ To separate connections, release bellows at pillar.

14 - Driver door control unit -J386-

- ☐ Integrated in window regulator motor, driver side -V147-
- ☐ Removing and installing ⇒ [page 212](#)

15 - Switch module of window regulator, driver side

- ☐ Location: installed in door panel on driver side
- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 96 ; Lights and switches in front doors; Removing and installing switch module of window regulator, driver side

16 - Coupling station

- ☐ Fitting location: right A-pillar
- ☐ To separate connections, release bellows at pillar.

17 - Onboard supply control unit -J519-

- ☐ Location: below driver side of dash panel, clipped onto relay carrier
- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 97 ; Control units; Onboard supply control unit - J519-

18 - Alarm horn -H12-

- ☐ Fitting location: in plenum chamber
- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 96 ; Anti-theft alarm system (ATA) Removing and installing alarm horn -H12- .

19 - Bonnet contact switch -F266-

- ☐ Location: on lid lock.
- ☐ Removing and installing ⇒ Electrical system; Rep. gr. 96 ; Lights and switches in engine compartment; Removing and installing bonnet contact switch -F266-

3.2 Adapting keys with remote control

Keys with remote control are adapted using the vehicle diagnosis, testing and information system -VAS 5051B-

- Select "guided fault finding" in vehicle diagnostic tester - VAS 5051 B- .

- Using the **GoTo** key, select "Function/component selection" and the following menu items one after the other:

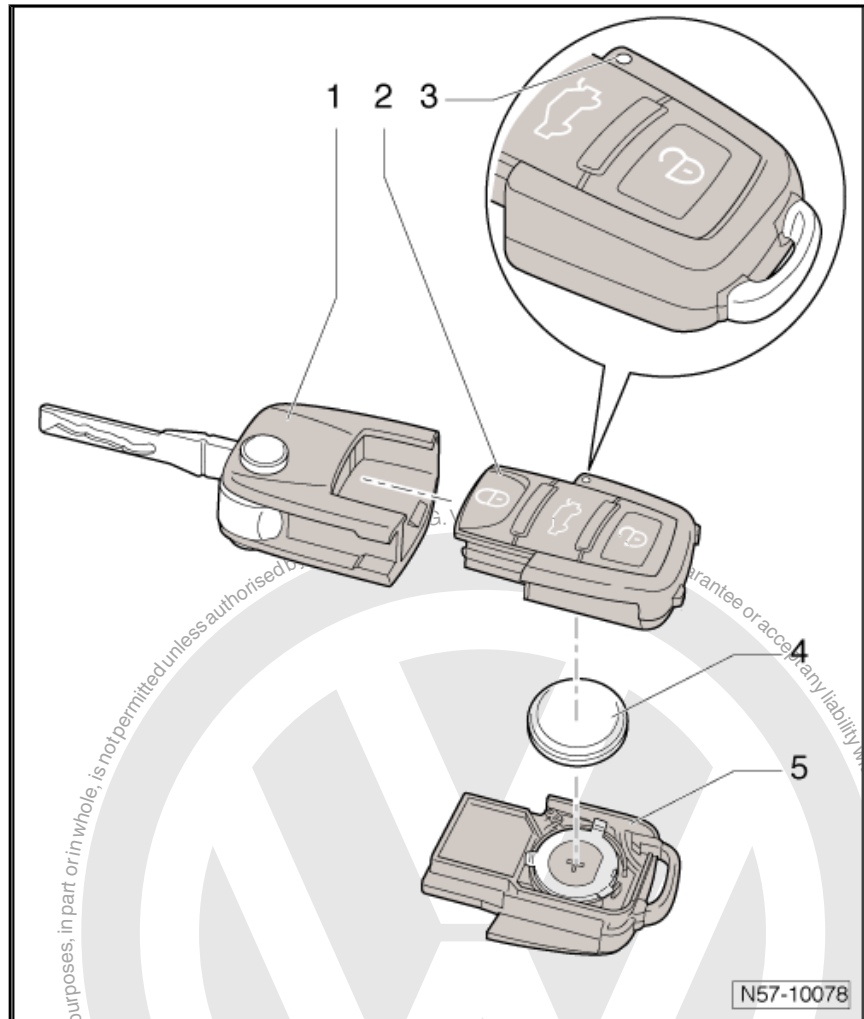
- ◆ Body
- ◆ Electrical system (Rep. Gr. 01; 27; 90...97)
- ◆ 01 - Systems capable of self-diagnosis



- ◆ 09 - Onboard supply control unit
- ◆ 09 - Functions
- ◆ Adapting key with remote control

3.3 Assembly overview - battery for folding key with remote control

- 1 - Key with variable code transponder
- 2 - Transmitter unit - upper part
- 3 - LED
 - ❑ When remote control is operated, this LED must flash briefly.
 - ❑ If LED does not flash during remote control operation, the battery is dead and must be renewed.
- 4 - Battery
 - ❑ Removing and installing
⇒ [page 118](#)
- 5 - Transmitter unit - lower part



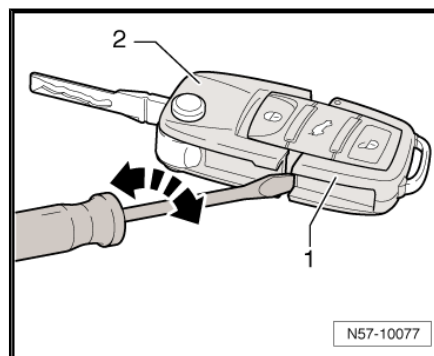


3.4 Removing and installing battery for folding key with remote control

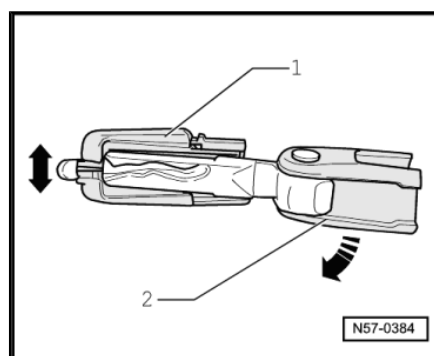
3.4.1 Removing

Carry out following work:

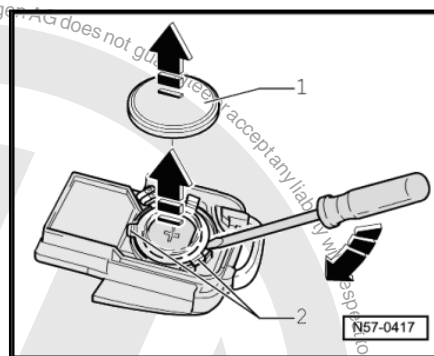
- Insert screwdriver in slot between transmitter unit -1- and key -2-.
- Turn screwdriver in direction of -arrow- to separate transmitter unit from key.



- Press transmitter unit -1- apart using profile section of key -2-.



- Unclip battery -1- from the retainers -2- with a screwdriver in direction of -arrow-.



3.4.2 Installing



Note

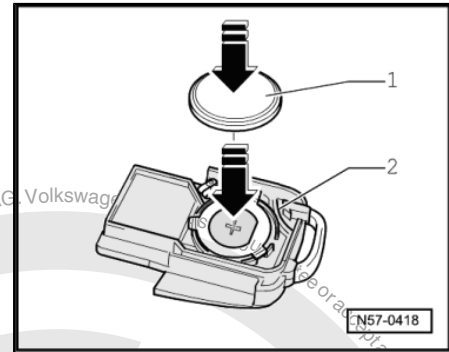
- ◆ Before installing battery, always press one of the buttons once.
- ◆ Thus transmitter unit is reset and can recognize a new battery only now.



Carry out following work:

Ensure correct polarity and mounting position when installing battery.

- Lay battery -1- with positive terminal downwards in sender unit -2- (positive terminal is marked on housing).
- Press battery into -arrow- radio container until it latches into place, applying only slight pressure while doing so.
- Attach lid and sender unit to each other (do not damage seal).
- Then clip transmitter unit to the key.



3.5 Assembly overview - battery for folding key with cover cap

1 - Key with radio capsule

- ☐ Adapting keys with remote control
⇒ [page 116](#)
- ☐ Radio capsule can not be renewed individually.

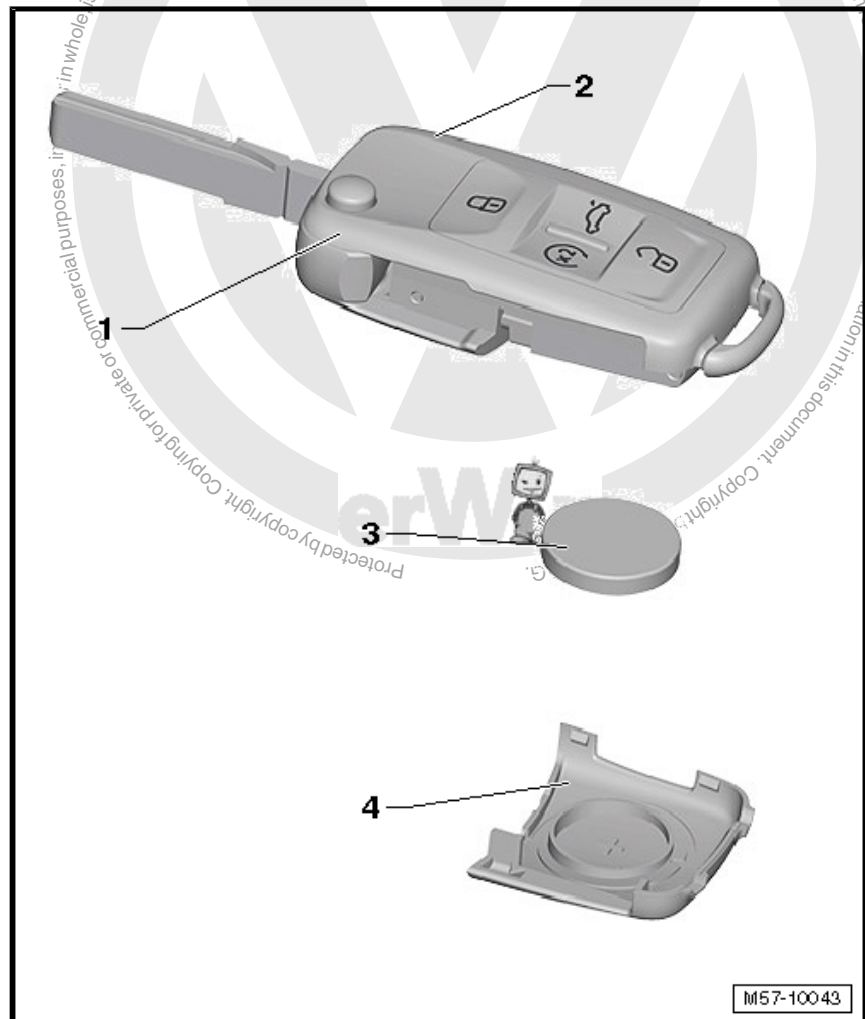
2 - LED

- ☐ When remote control is operated, this LED must flash briefly.
- ☐ If LED does not flash during remote control operation, the battery is dead and must be renewed.

3 - Battery

- ☐ Removing and installing
⇒ [page 120](#)

4 - Cover



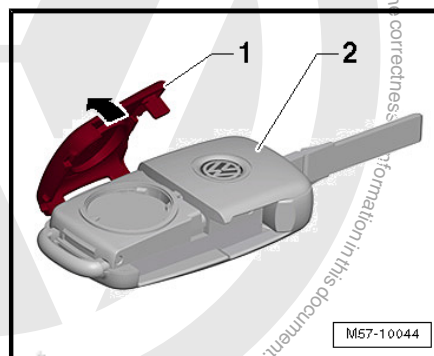


3.6 Removing and installing battery for folding key with cover cap

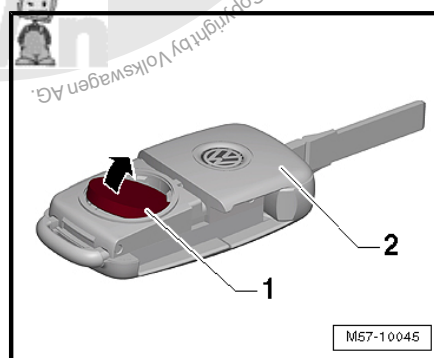
3.6.1 Removing

Carry out following work:

- Fold out profile section of key.
- Using a screwdriver, unclip cover cap -1- on back of key -2- in -direction of arrow-.



- Using a suitable screwdriver, unclip battery -1- from battery compartment of key -2- in -direction of arrow-.



3.6.2 Installing



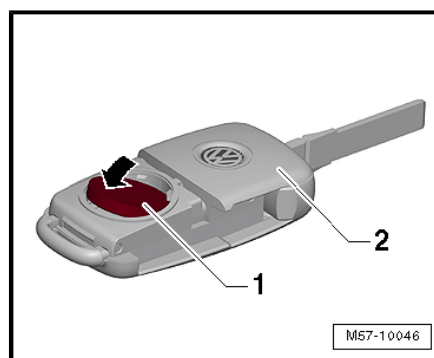
Note

- ◆ Before installing battery, always press one of the buttons once.
- ◆ Thus transmitter unit is reset and can recognize a new battery only now.

Carry out following work:

Ensure correct polarity and mounting position when installing battery.

- Insert battery -1- -arrow- into battery compartment of key -2- with positive terminal pointing upwards.
- Press battery into battery compartment until it latches into place, applying only slight pressure while doing so.
- Clip cover cap onto back of key.





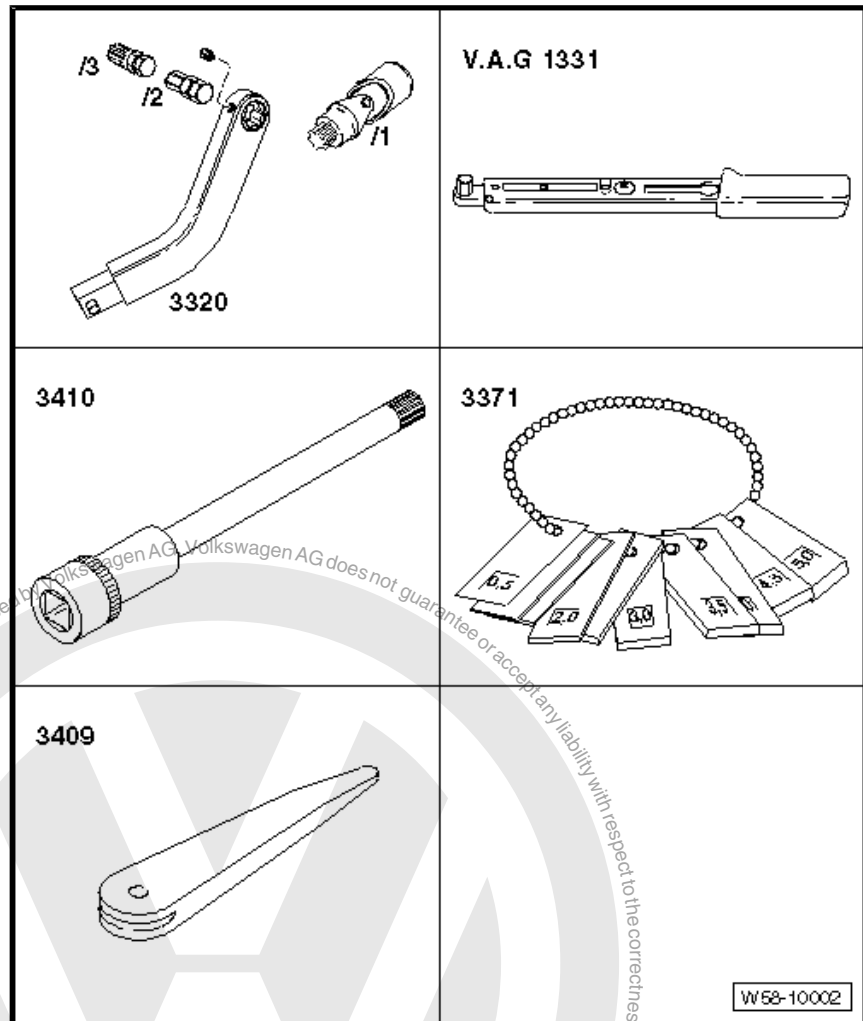
58 – Rear doors, door components

1 Rear door

1.1 Tools

Special tools and workshop equipment required

- ◆ Door alignment tool -3320-
- ◆ Universal joint for 3320 -3320/1-
- ◆ Bit for 3320 -3320/2-
- ◆ Bit for 3320 -3320/3-
- ◆ Torque wrench -V.A.G 1331-
- ◆ Socket -3410-
- ◆ Setting gauge -3371-
- ◆ Removal wedge -3409-





1.2 Assembly overview - door hinges



Note

- ◆ The right side is shown. The left side is similar.
- ◆ The hinge bolts must always be renewed after they have been loosened.

1 - Door

- ☐ Removing and installing
⇒ [page 123](#)
- ☐ Adjusting ⇒ [page 126](#)

2 - Bolt

- ☐ Always renew; it is permissible to loosen them once in order to align door.
- ☐ Specified torque: 40 Nm

3 - Door hinge

- ☐ Hinge is split.
- ☐ Upper part is secured to hinge lower part with bolt -4-.

4 - Bolt

- ☐ Connects upper part of hinge -3- to bottom part of hinge -7-
- ☐ Specified torque: 23 Nm

5 - Cover

- ☐ Fit onto bolt -4-.

6 - Bolt

- ☐ Always renew; it is permissible to loosen them once in order to align door.
- ☐ Specified torque: 40 Nm
- ☐ Installed from inside vehicle.
- ☐ For removal and installation, B-pillar lower trim must be removed ⇒ General body repairs, interior; Rep. gr. 70 ; Pillar and side panel trims .
- ☐ If the B-pillar has been replaced, other specified torques must be observed ⇒ [page 125](#)

7 - Door hinge

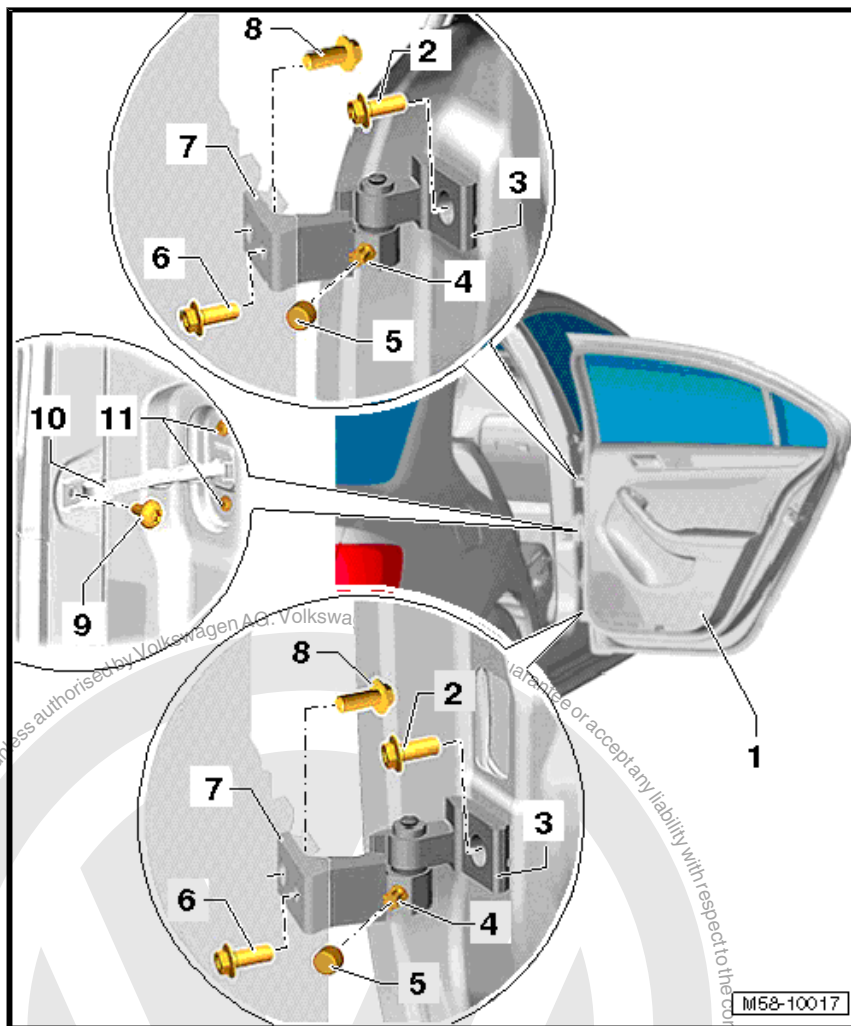
- ☐ Hinge is split.
- ☐ Lower part is secured to hinge upper part with bolt -4-.

8 - Bolt

- ☐ Always renew; it is permissible to loosen them once in order to align door.
- ☐ Specified torque: 40 Nm
- ☐ If the B-pillar has been replaced, other specified torques must be observed ⇒ [page 125](#)

9 - Bolt

- ☐ Specified torque: 30 Nm





10 - Door retaining strap

- ❑ Removing and installing ➔ [page 132](#)

11 - Bolt

- ❑ Qty. 2.
- ❑ Specified torque: 9 Nm

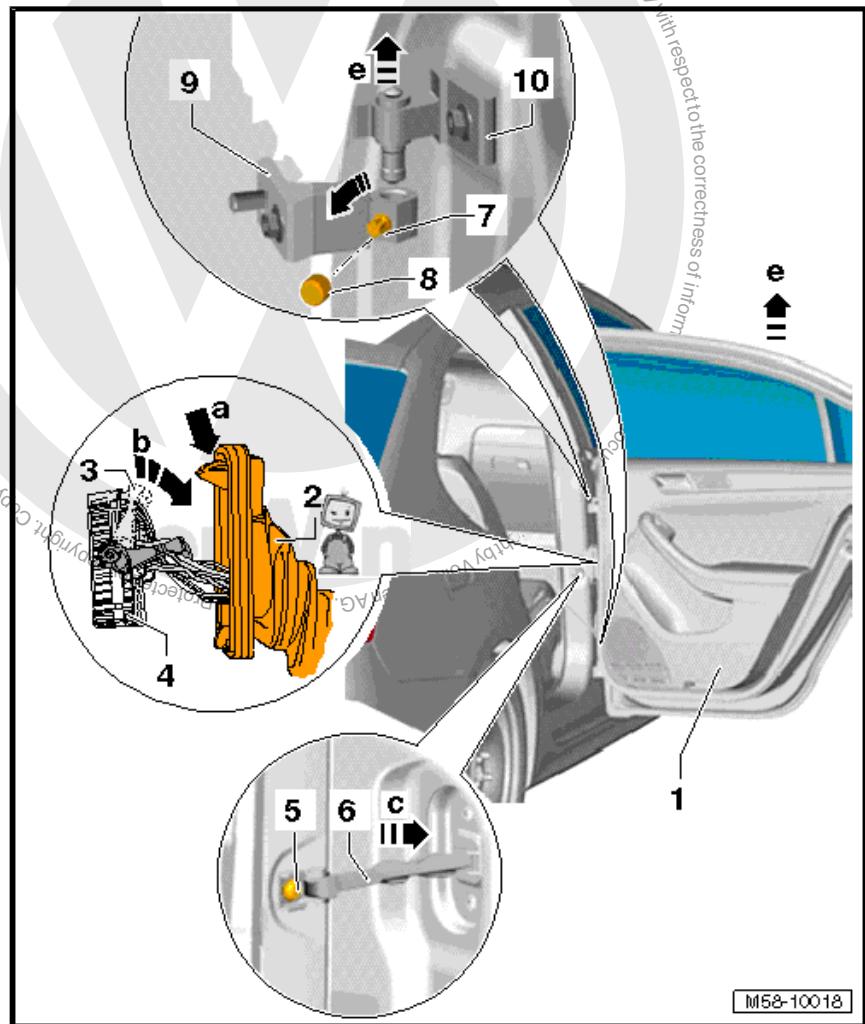
1.3 Removing and installing door



Note

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

1.3.1 Removing



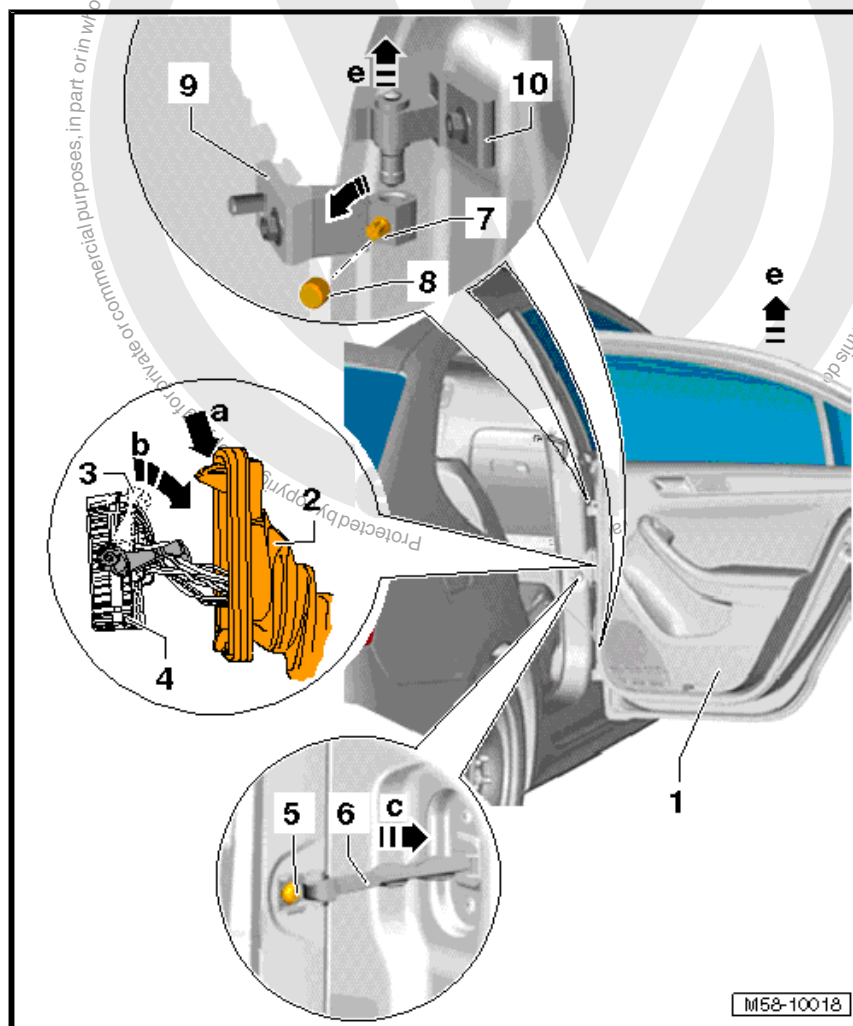
Carry out following work:

- Release bellows -2- by pressing catch -arrow a- and pull off B-pillar.



- Swing release lever -3- downwards -arrow b- and disconnect electrical connector -4- from coupling station.
- Remove caps -8- from bolts -7-.
- Loosen bolts -7- at hinges -arrow d-.
- Unscrew bolt -5- for door retaining strap -6-.
- Push door retaining strap -6- inwards -arrow c-.
- Lift door -1- upwards -arrow e- out of hinges -9-.

1.3.2 Installing



Carry out following work:

Install in reverse order of removal.

Specified torque for bolt -5-: 30 Nm.

Specified torque for bolts -7-: 23 Nm.

- Adjusting door ➔ [page 126](#)
- Observe rear door gaps ➔ Body Repairs; Rep. gr. 00 ; Body panel gaps/shut lines; Body - middle .

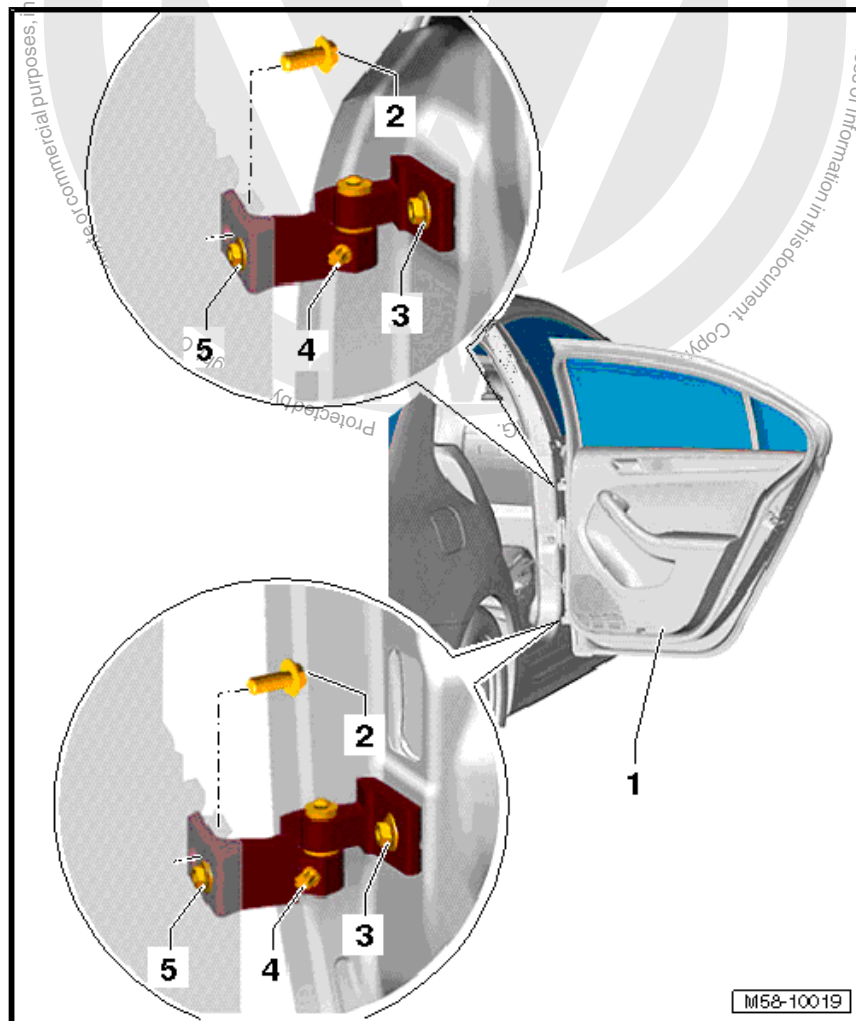


1.4 Installing after renewing B-pillar



WARNING

If B-pillar is renewed, bolts on B-pillar must absolutely be tightened as described in the following.



Carry out following work:

- B-pillar has been renewed.
- Always renew; it is permissible to loosen them once in order to align door.

Install in reverse order of removal.

- Insert door -1- and tighten bolts -2- and -5- to 20 Nm at 90°.
- Adjusting door ⇒ [page 126](#)
- Observe front door gaps ⇒ Body Repairs; Rep. gr. 00 ; Body panel gaps/shut lines; Body - middle .



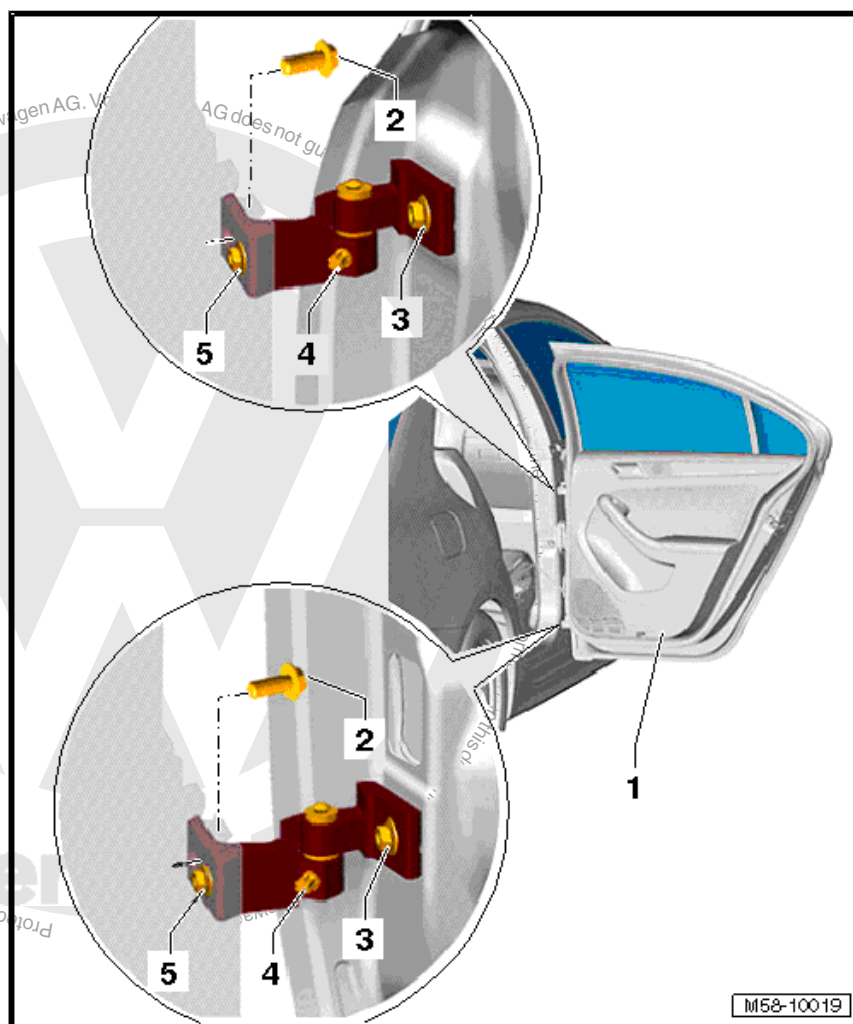
1.5 Door alignment

1.5.1 Door alignment - shut lines and flushness



Note

- ◆ Vehicle must be standing on its wheels to enable rear door to be adjusted.
- ◆ The rear door 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.
- ◆ To check gaps/shut lines: ⇒ Body Repairs; Rep. gr. 00 ; Technical data; Body panel gaps/shut lines; Body - middle
- ◆ After installing or alignment, carry out corrosion protection measures on hinges and screws/bolts.



Carry out following work:

Adjusting shut lines

To be able to adjust gaps correctly, bolts -2- and -5- on B-pillar must be loosened.



- For bolts -5-, B-pillar lower trim must be removed ⇒ General body repairs, interior; Rep. gr. 70 ; Pillar and side panel trims .

Adjusting for flush fitting

In order to adjust flushness correctly, the bolts -3- must be loosened.

Use door alignment tool -3320- with appropriate bit for this.



Note

Other measures such as raising the door have no effect. Subsequent pressure from above will cause the door to sack again.

Adjusting striker pin ⇒ [page 127](#) .

1.5.2 Adjusting striker pin



Note

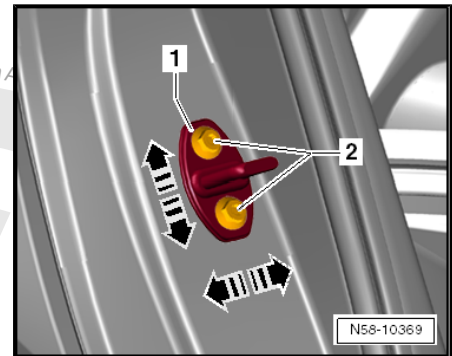
- ◆ *Only the adjustment for the right front door is described. The adjustment of the left front door is similar.*
- ◆ *The door must lock fully when closing without any additional force being required and must not have any play.*
- ◆ *The door must not be pushed up or down due to striker pin adjustment.*

The striker pin can be used to make sure that the rear door is aligned flush with the front door (wind noises).

Carry out following work:

- Loosen striker pin -1- by loosening bolts -2- in C-pillar.
- Adjust the front door with the striker pin -1- so that the front door is flush with the side panel when shut (to prevent wind noise).
- Tighten bolts -2- of striker pin -1-.

Specified torque for bolts -2-: 20 Nm.



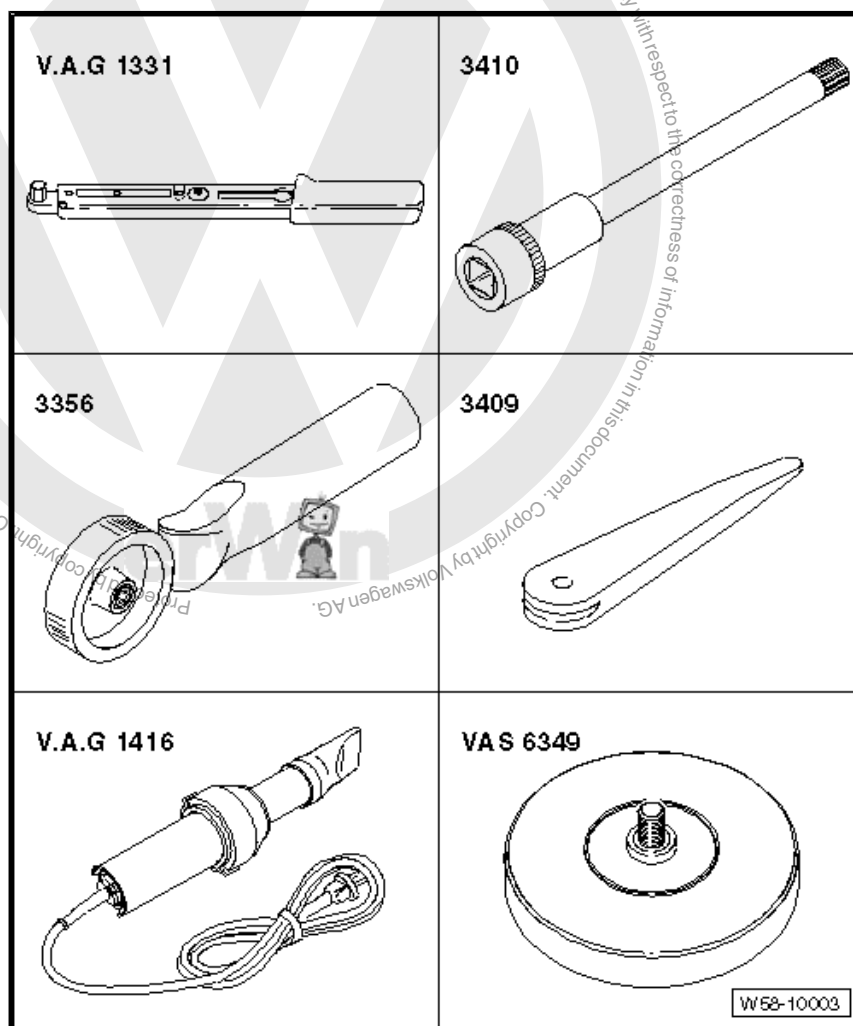


2 Door components

2.1 Tools

Special tools and workshop equipment required

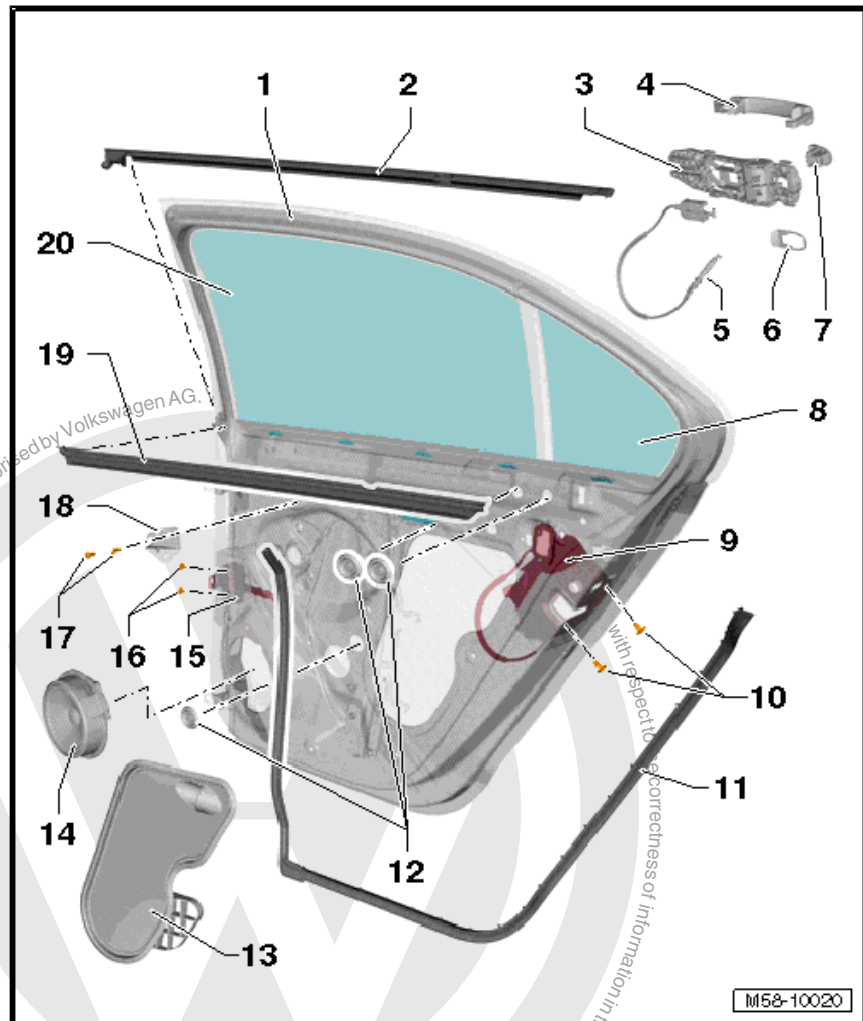
- ◆ Torque wrench -V.A.G 1331-
- ◆ Socket -3410-
- ◆ Roller for door insulation foil -3356-
- ◆ Removal wedge -3409-
- ◆ Hot air blower -V.A.G 1416-
- ◆ Adhesive residue remover -VAS 6349-

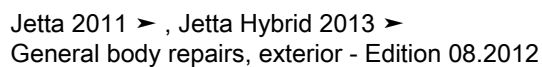




2.2 Assembly overview - rear door

- 1 - Door**
 - ☐ Removing and installing ➔ [page 123](#)
 - ☐ Adjusting ➔ [page 126](#)
- 2 - Window slot outer seal**
 - ☐ Removing and installing ➔ [page 148](#)
- 3 - Bearing bracket**
 - ☐ Removing and installing ➔ [page 143](#)
- 4 - Door handle**
 - ☐ Removing and installing ➔ [page 138](#)
- 5 - Cable**
 - ☐ From bearing bracket -3- to door lock -9-
- 6 - Base**
- 7 - Cover**
 - ☐ Removing and installing ➔ [page 135](#)
- 8 - Fixed door window**
 - ☐ Removing and installing ➔ [page 232](#)
- 9 - Door lock**
 - ☐ Removing and installing ➔ [page 140](#)
- 10 - Bolt**
 - ☐ Qty. 2.
 - ☐ Specified torque: 18 Nm
- 11 - Door joint seal**
 - ☐ Removing and installing ➔ [page 152](#)
- 12 - Cover**
- 13 - Cover**
 - ☐ Removing and installing ➔ [page 130](#)
- 14 - Loudspeaker**
 - ☐ Riveted into door.
- 15 - Door retaining strap**
 - ☐ Removing and installing ➔ [page 132](#)
- 16 - Bolt**
 - ☐ Qty. 2.
 - ☐ Specified torque: 9 Nm
- 17 - Bolt**
 - ☐ Qty. 2.
 - ☐ Specified torque: 4 Nm
- 18 - Retaining bracket**
 - ☐ For door trim panel threaded connections.





- ❏ Removing and installing ⇒ [page 145](#)

- ❏ Removing and installing ⇒ [page 221](#)

Note

The removal and installation sequence is only for the right cover. Removal and installation of the left door cover is analogous.

For commercial purposes, i

M58-10021

- Remove rear door trim ⇒ General body repairs, interior: Rep. gr. 70 ; Door trim .
- Lift upper end of cover -1-.



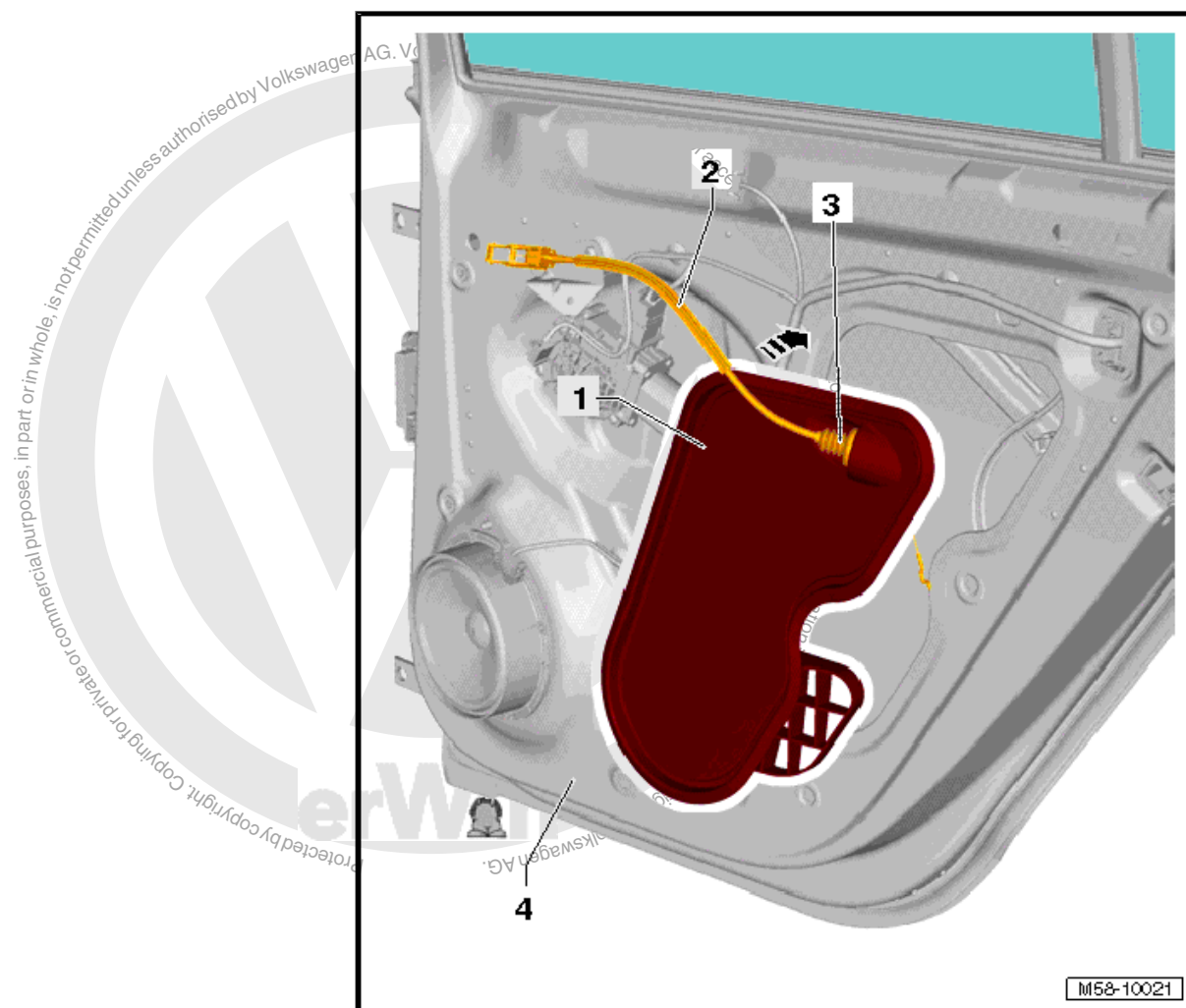
- Remove cover -1- from door -4-.



Note

If required for subsequent work, pull cable -2- with grommet -3- out of cover -1-.

2.3.2 Installing



Carry out following work:

- Pull cable -2- through cover -1- and secure grommet -3-.
- Insert cover -1- into door -4- from below.
- Press cover -1- into door -4- from above -arrow-.



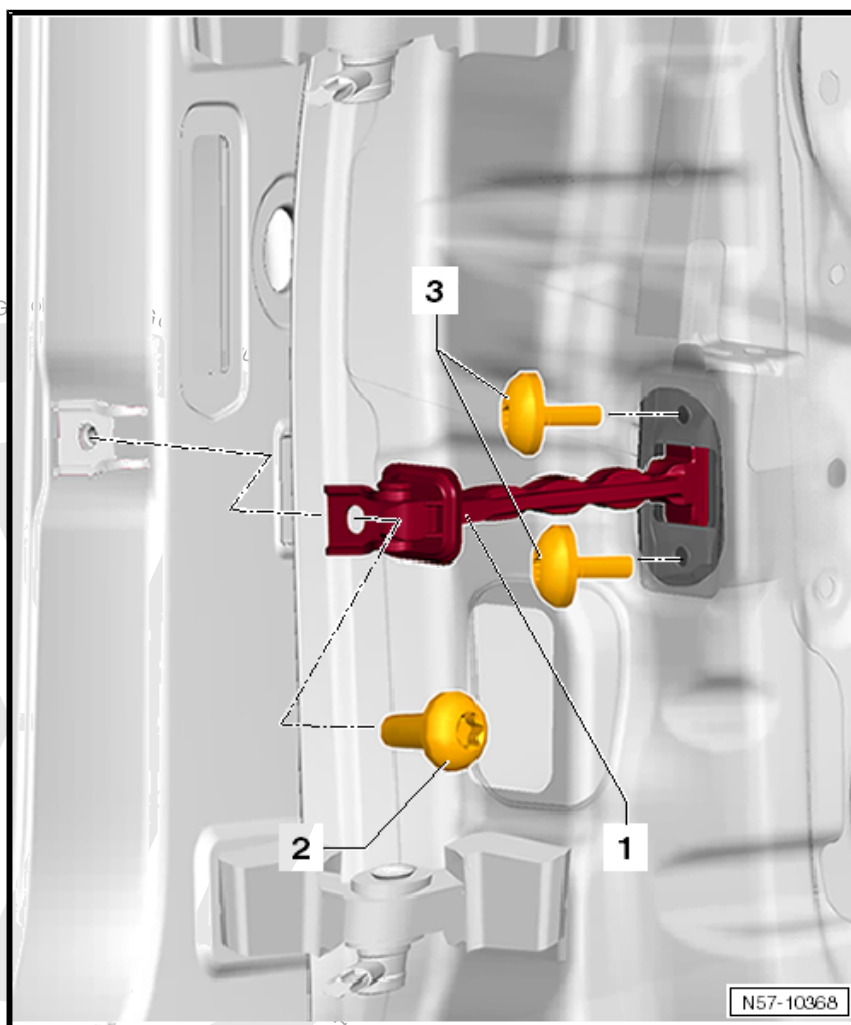
2.4 Removing and installing door retaining strap



Note

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

2.4.1 Removing

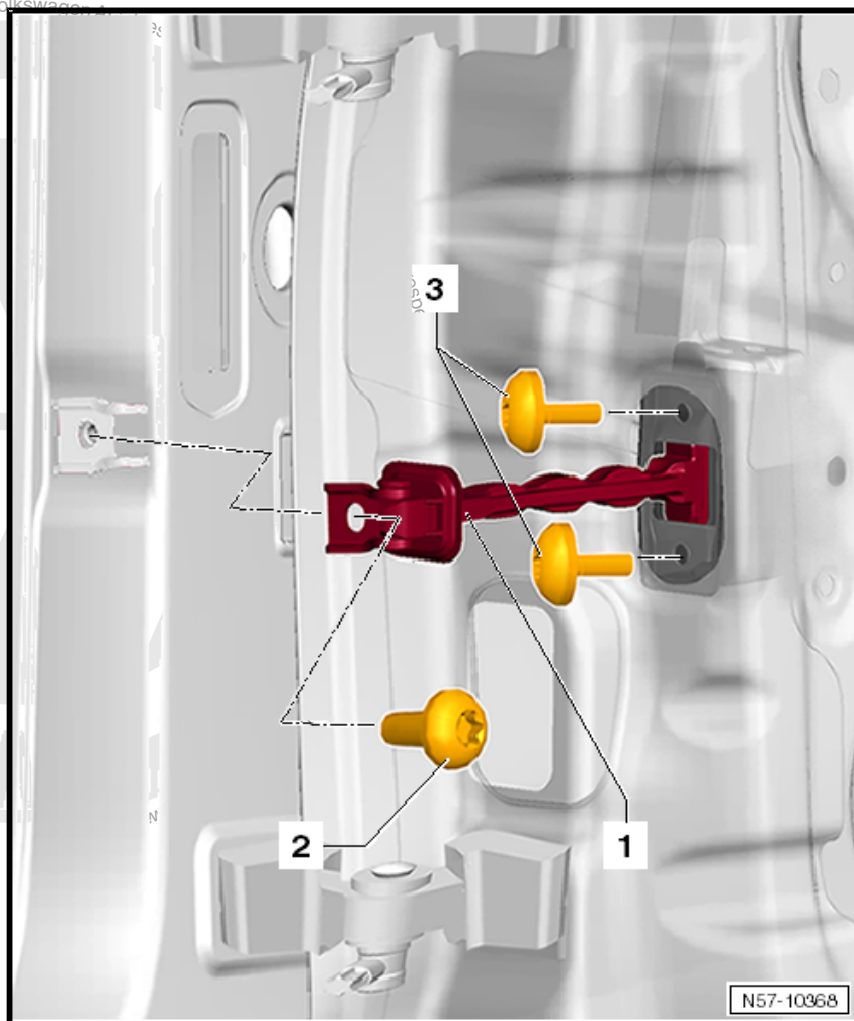


Carry out following work:

- Remove rear door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim .
- Remove riveted loudspeaker.
- Unscrew bolt -2- on B-pillar.
- Unscrew bolts -3- and then remove door retaining strap -1- through the opening of the loudspeaker.



2.4.2 Installing



Carry out following work:

Install in reverse order of removal.

Specified torque for bolt -2-: 30 Nm.

Specified torque for bolts -3-: 9 Nm.

2.5 Removing and installing striker pin



Note

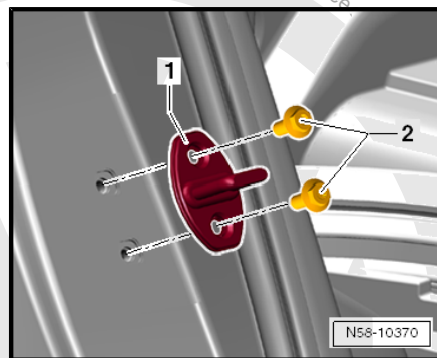
Removal and installation are described only for the right door striker pin. Removal and installation of the left striker pin are similar.



2.5.1 Removing

Carry out following work:

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



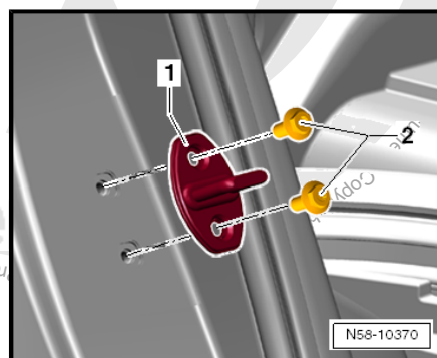
2.5.2 Installing

Carry out following work:

- Place striker pin -1- on C-pillar and tighten bolts -2-.

Specified torque for bolts -2-: 20 Nm.

- Adjust striker pin ➤ [page 127](#) .





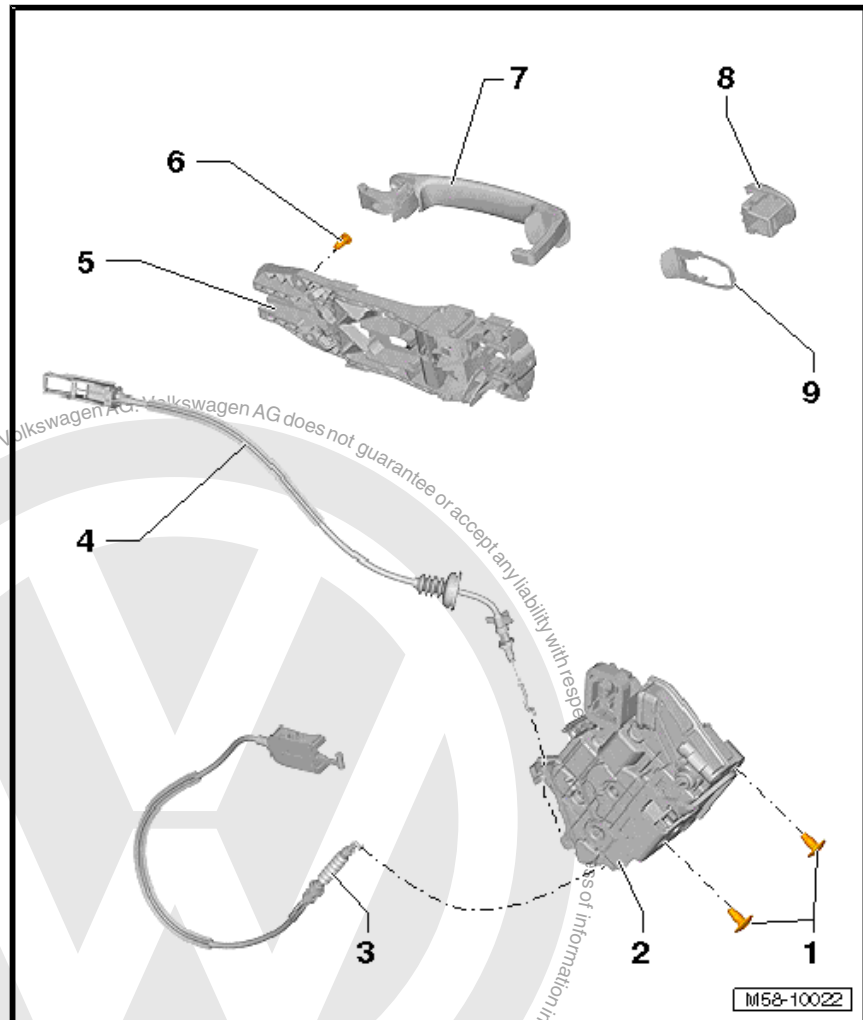
2.6 Assembly overview - door handle and door lock



Note

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

- 1 - Bolt**
 - ☐ Qty. 2.
 - ☐ Specified torque: 18 Nm
- 2 - Door lock**
 - ☐ Removing and installing
⇒ [page 140](#)
- 3 - Cable**
 - ☐ From door lock -2- to bearing bracket -5-
- 4 - Cable**
 - ☐ From inner door handle to door lock -2-
 - ☐ With grommet to passage on cover.
- 5 - Bearing bracket**
 - ☐ Removing and installing
⇒ [page 143](#)
- 6 - Bolt**
 - ☐ Specified torque: 1 Nm
 - ☐ Bearing bracket is loosened from door when this bolt is loosened.
- 7 - Door handle**
 - ☐ Removing and installing
⇒ [page 138](#)
- 8 - Cover**
 - ☐ Removing and installing
⇒ [page 135](#)
- 9 - Base**



2.7 Removing and installing cover cap



Note

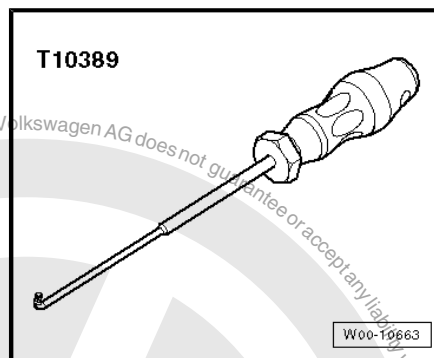
The removal and installation sequence is only for the right cover cap. The removal and installation of the left cover cap is analogous.

2.7.1 Tools

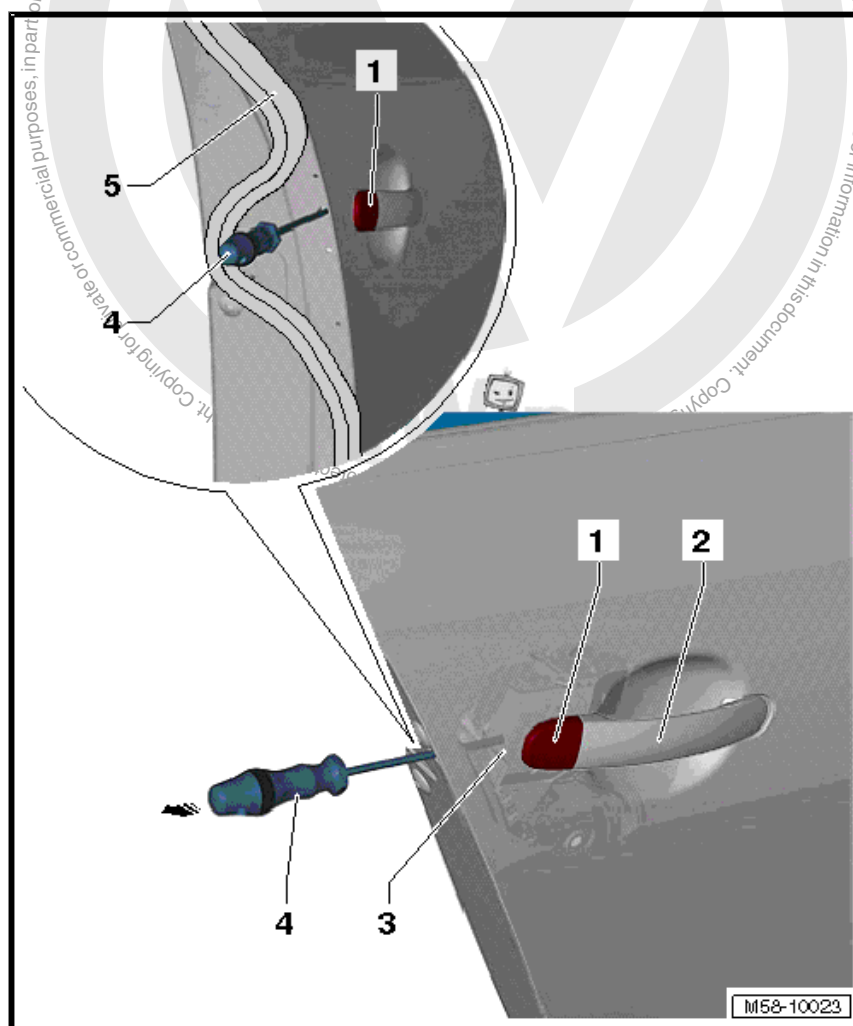
Special tools and workshop equipment required



- ◆ Assembly tool -T10389-



2.7.2 Removing

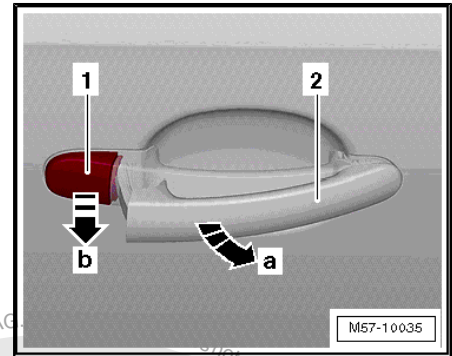


Carry out following work:

- Remove door outer seal -5- in area of hole for locking hook
⇒ [page 152](#) .
- Insert assembly tool -T10389- into opening behind locking
hook -3- for cover cap -1-.



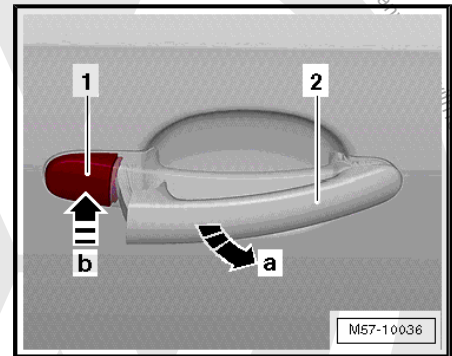
- Pull assembly tool -T10389- backwards -arrow- until locking hook releases.
- Pull door handle -2- off door in direction of -arrow a-.
- Pull cover cap -1- out of bearing bracket -arrow b- at a right angle.

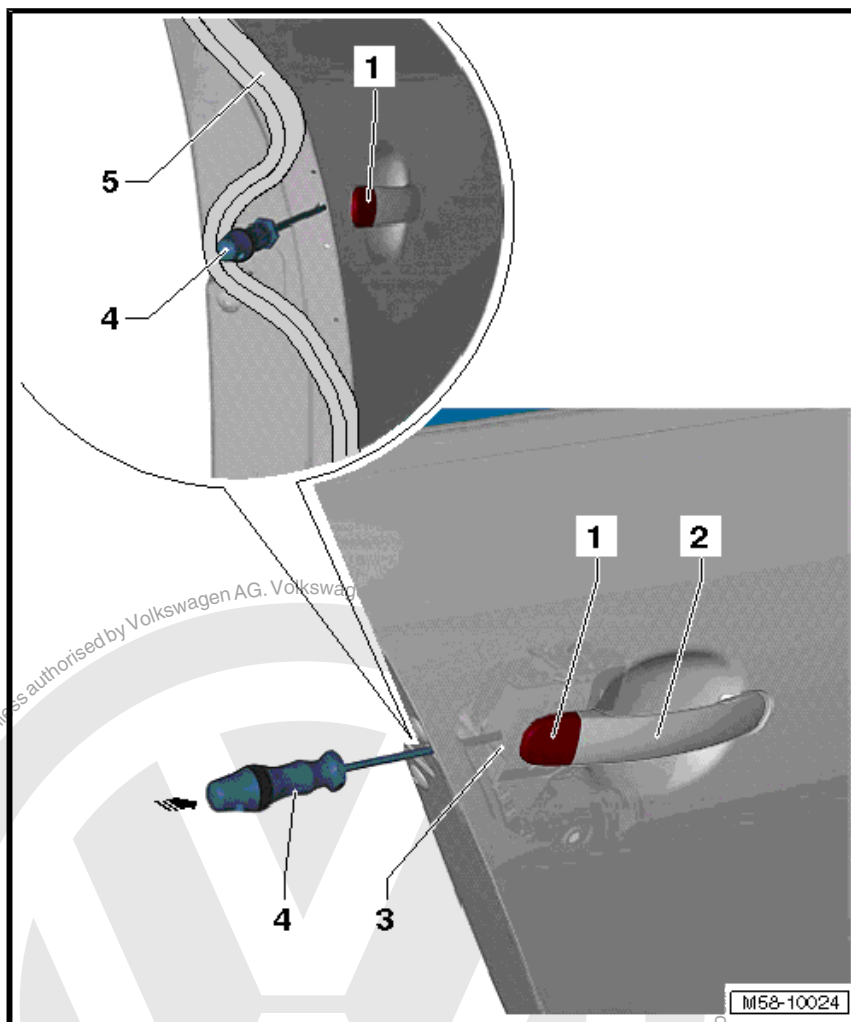


2.7.3 Installing

Carry out following work:

- Pull door handle -2- off door in direction of -arrow a-.
- Push cover cap -1- into bearing bracket -arrow b- at a right angle.





- Insert screwdriver -4- up to locking hook -3- in bearing bracket.
- Press cover cap -1- onto door.
- Push screwdriver -arrow- so far into hole until hook locks in place.
- Fit door outer seal -5- in area of hole for locking hook
⇒ [page 152](#) .

2.8 Removing and installing door handle

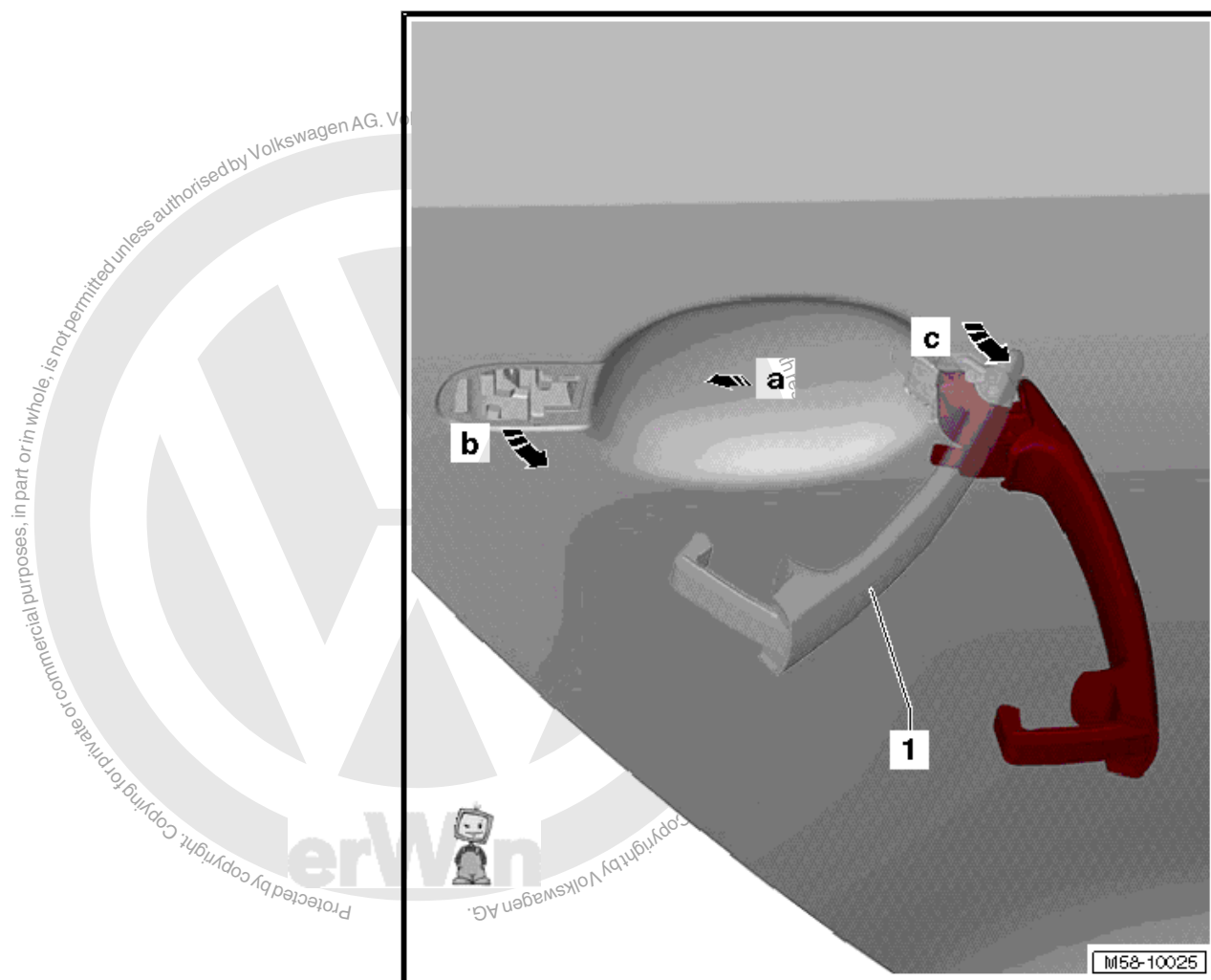


Note

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



2.8.1 Removing

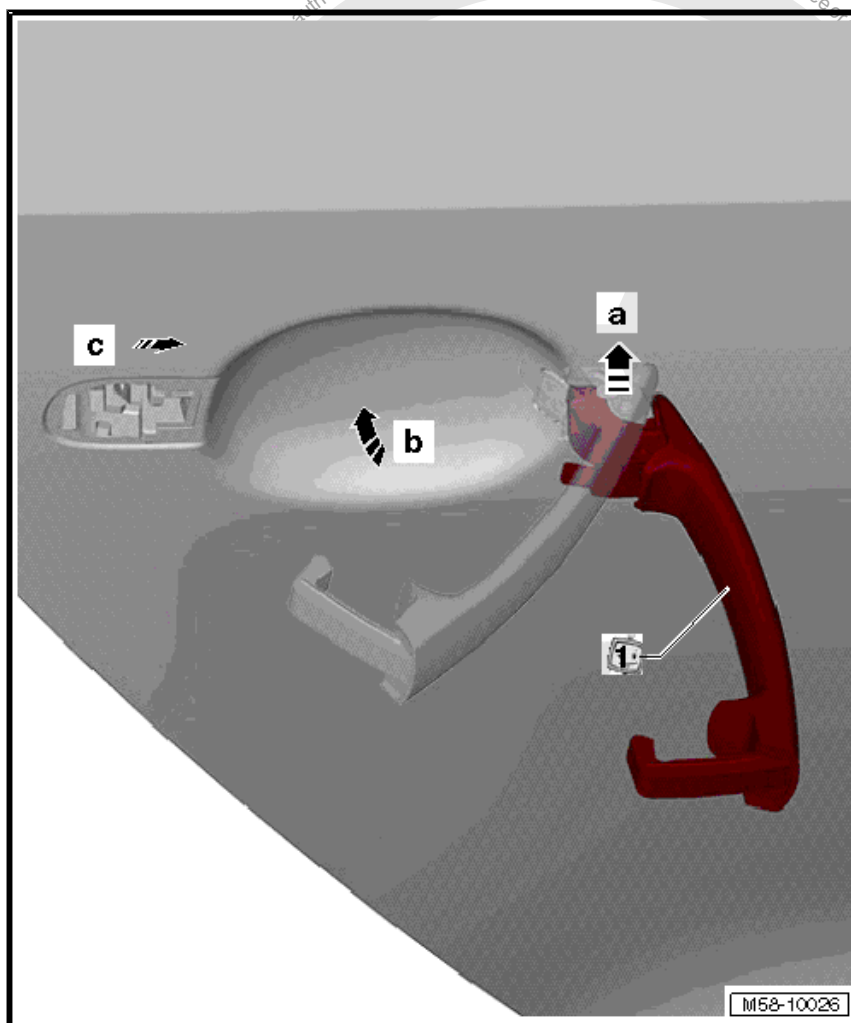


Carry out following work:

- Remove cover cap ➤ [page 135](#) .
- Pull door handle -1- towards rear slightly -arrow a- until it comes out of mounting of bearing bracket.
- Swivel door handle in direction of -arrow b-.
- Remove door handle from bearing bracket at a right angle -arrow c-.



2.8.2 Installing



Carry out following work:

- Seat door handle -1- in bearing bracket, whereby handle must be at right angles to door -arrow a-.
- Swing door handle -1- into door - arrow b-.
- Slide door handle forcibly forwards -arrow c- into mounting of bearing bracket.
- Installing cover cap ⇒ [page 135](#)
- It is essential that a functional check is then performed with the door open.

2.9 Removing and installing door lock

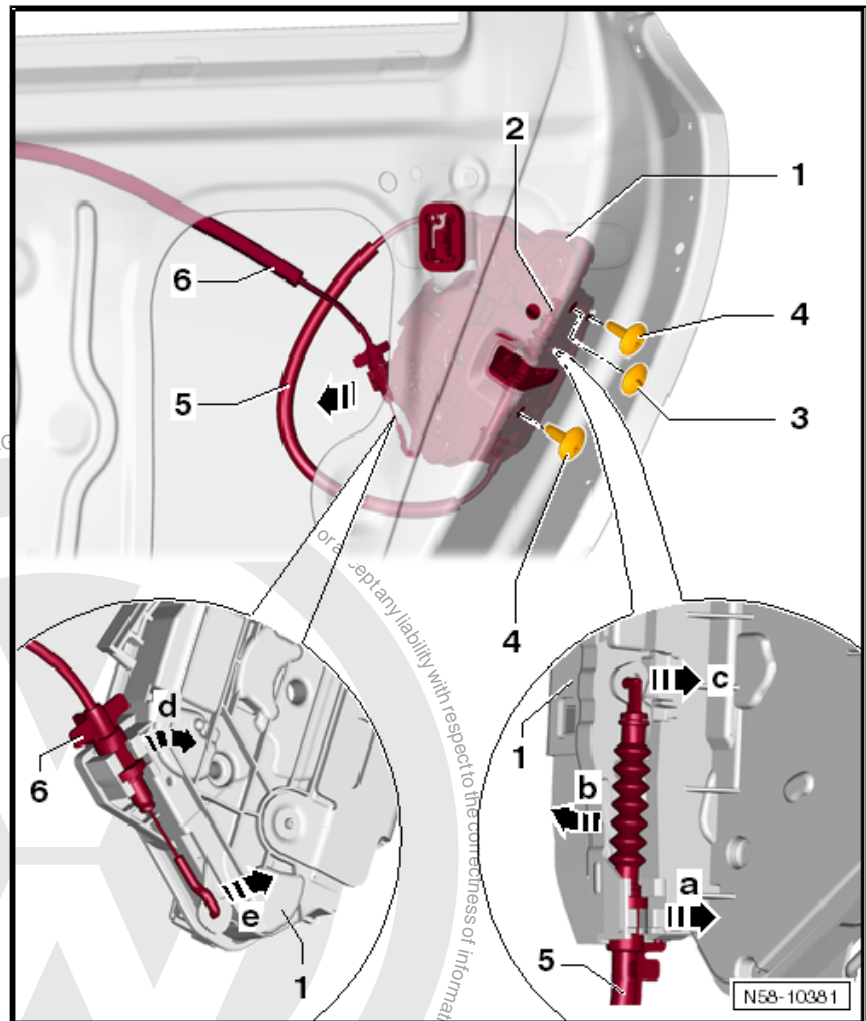


Note

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



2.9.1 Removing



Carry out following work:

- Remove cover ➔ [page 130](#) .
- Unplug connector -1- from door lock.
- Remove bolts -4-.
- Remove door lock -1- from door -2-.



Note

Cables can be detached if this is necessary for subsequent work.

Detach cable from bearing bracket

- If fitted, unclip door lock cover cap.
- Turn cable -5- 90° and take it out of holding device -arrow a-.
- Swivel cable -arrow b- so far until cable can be threaded out of eye in door lock -1- -arrow c-.

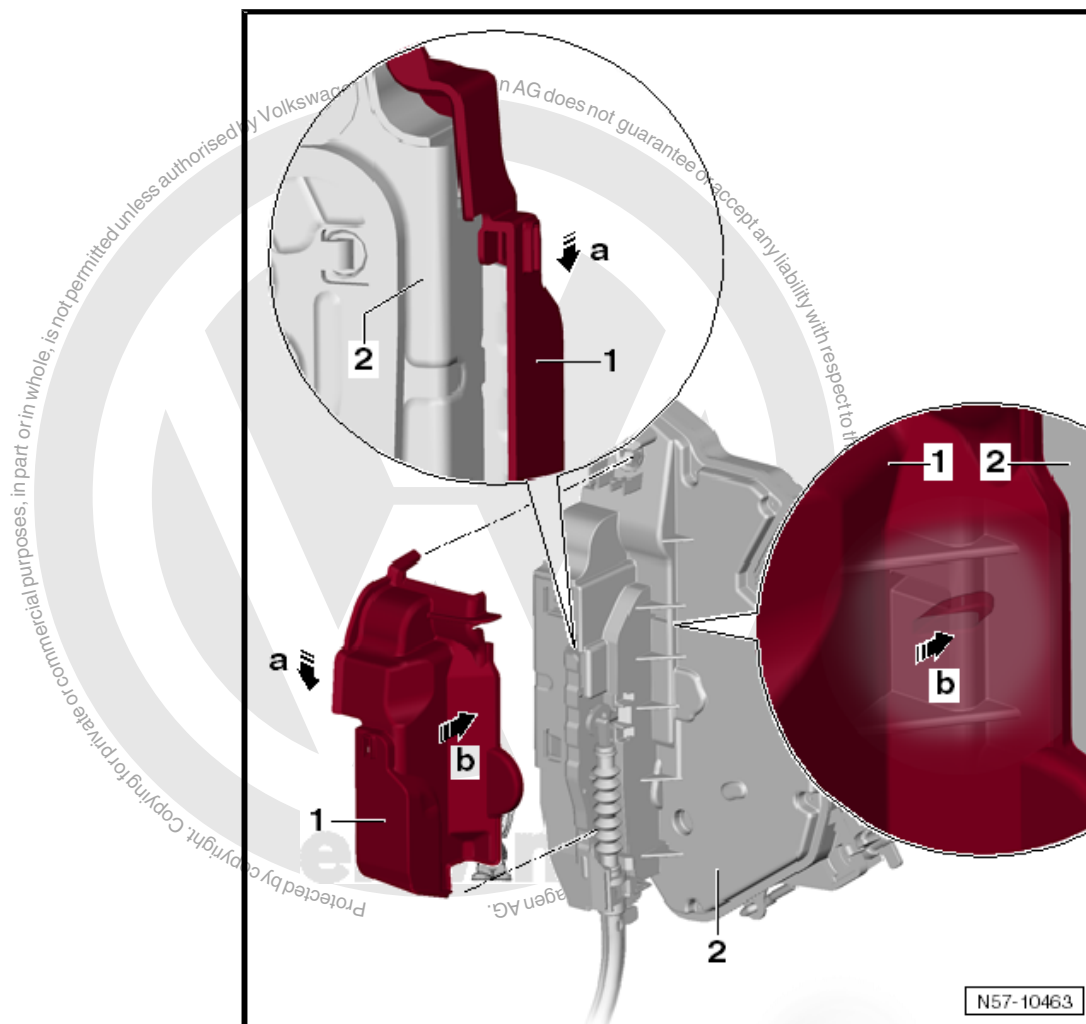


Detach cable from interior door handle

- Turn cable -6- 90° and take it out of holding device.
- Swivel cable -arrow d- so far until cable can be threaded out of eye in door lock -1- -arrow e-.

2.9.2 Installing

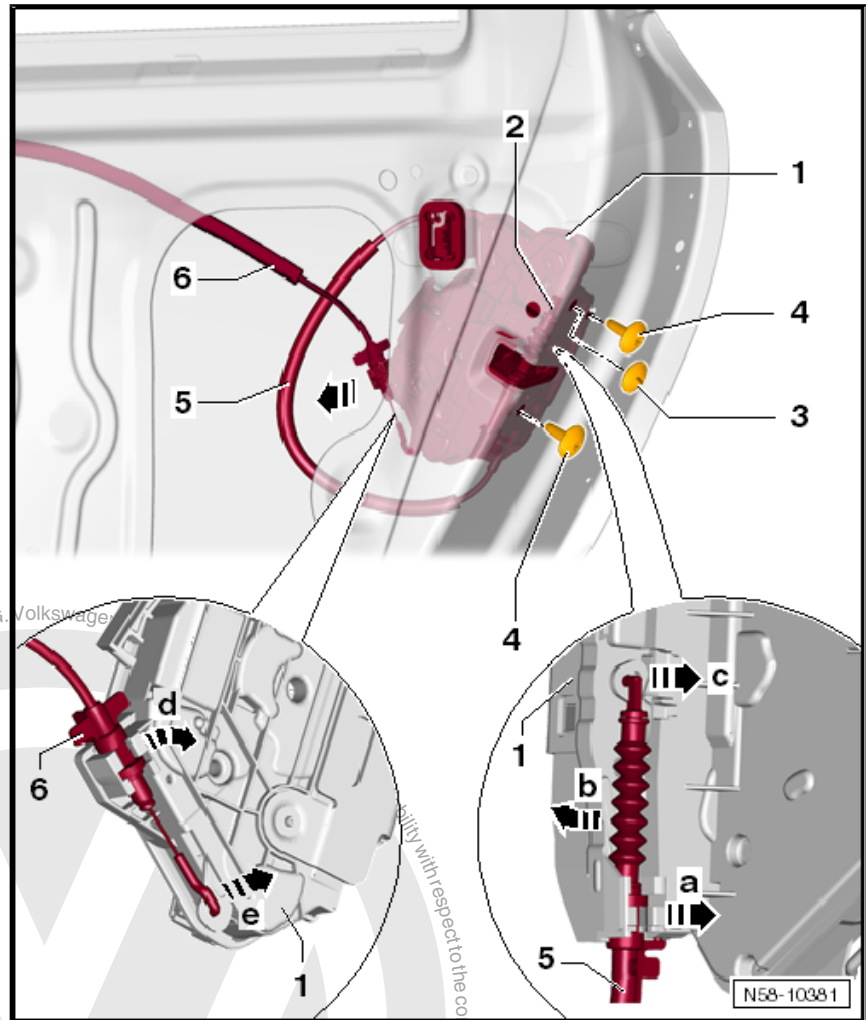
Carry out following work:



Note

Ensure that cover cap is fitted before door lock is installed.

- Push cover cap -1- onto guide on door lock -2- -arrow a-.
- Engage cover cap -1- in middle area of door lock -2- -arrow b-.



Install in reverse order of removal.

Specified torque for bolts -4-: 18 Nm.

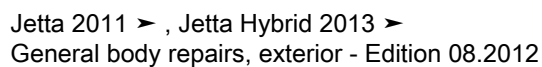
- It is essential that a functional test is then carried out because the door lock is not released if the cables are not correctly adjusted and locked and the door cannot then be opened.

2.10 Removing and installing bearing bracket



Note

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

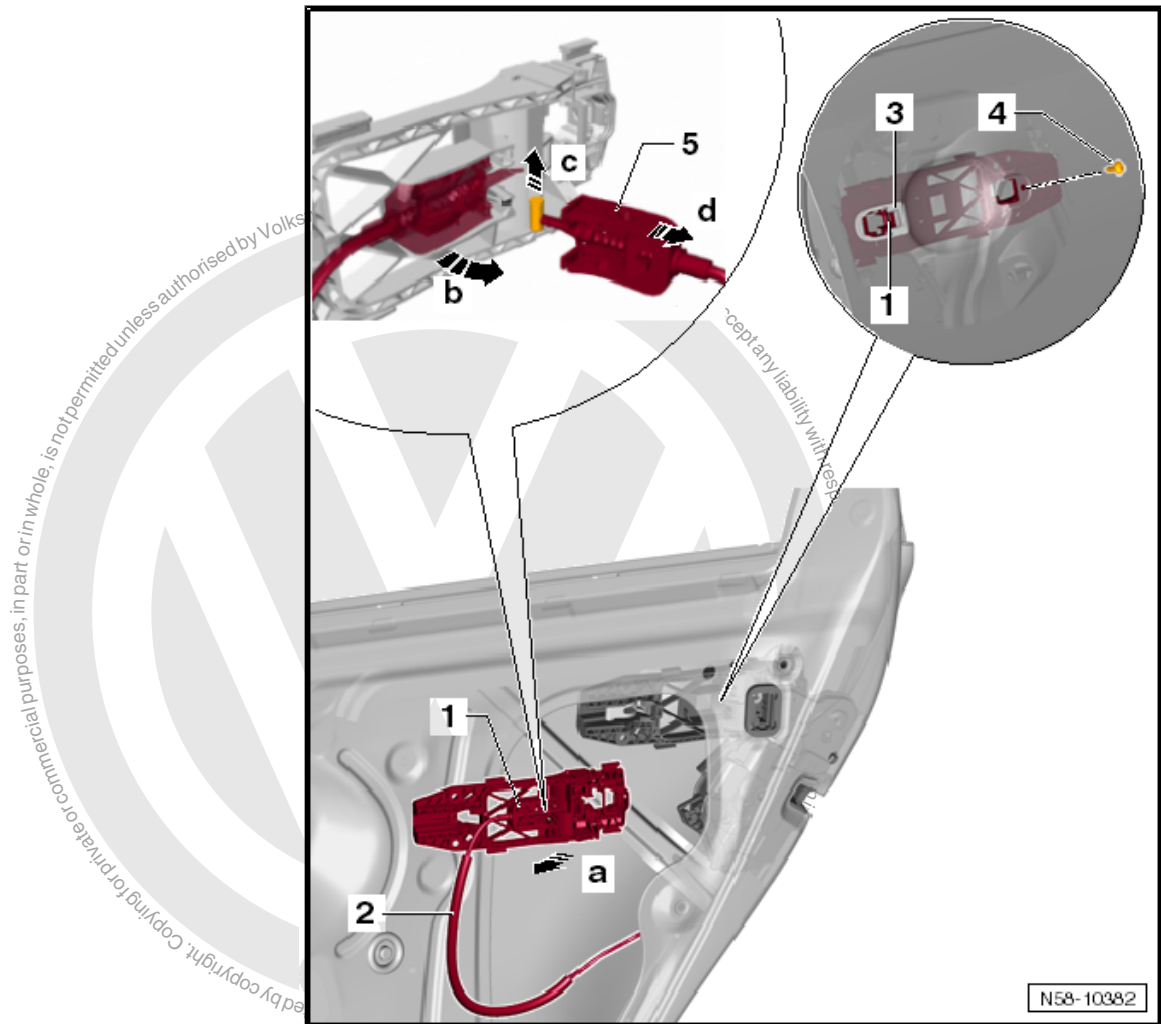


- Remove cover ⇒ page 130 .
- Remove cover cap ⇒ page 135 .
- Remove door handle ⇒ page 138 .
- Unscrew bolt -4- and remove base -3-.
- Remove bearing bracket -1- from door -arrow a-.

- Release holding device -5- and swivel it out of mounting in bearing bracket -arrow b-.
- Lift cable bolt out of mounting -arrow c-.
- Remove cable from bearing bracket -arrow d-.



2.10.2 Installing



Carry out following work:

Install in reverse order of removal.

Specified torque for bolt -4-: 1 Nm.

2.11 Removing and installing window slot inner seal

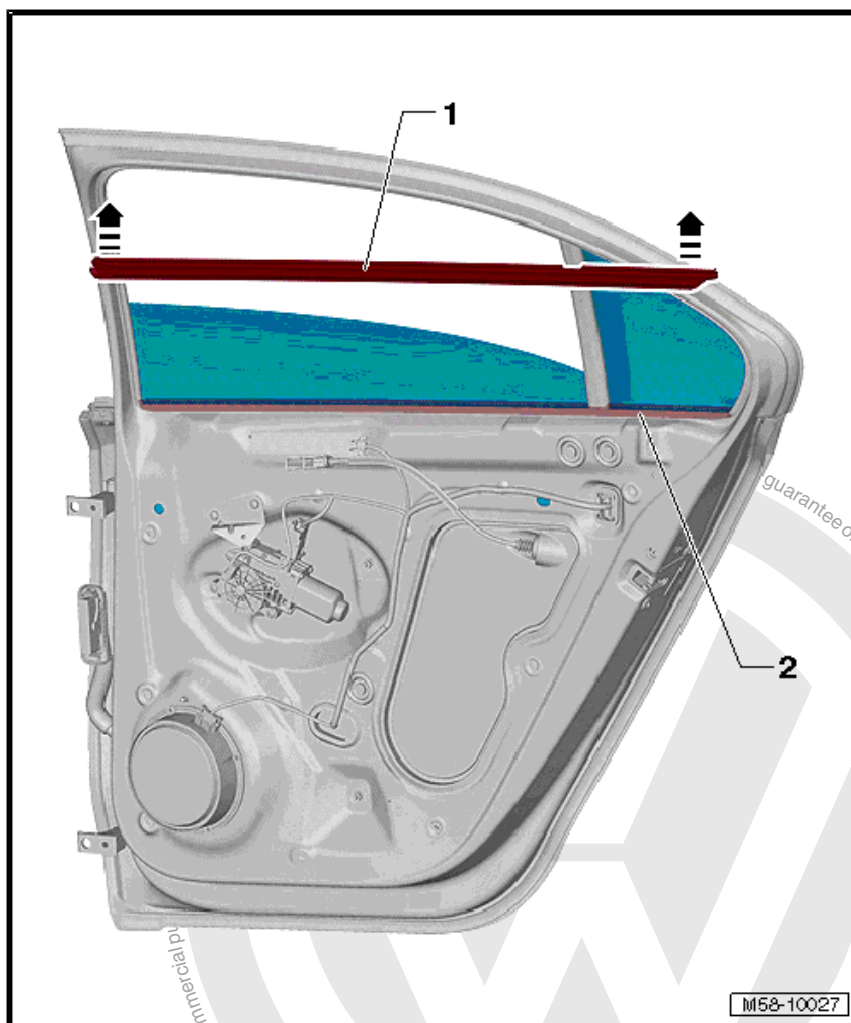


Note

- ◆ 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.
- ◆ Pull up seal equally and without distorting or bending it.



2.11.1 Removing

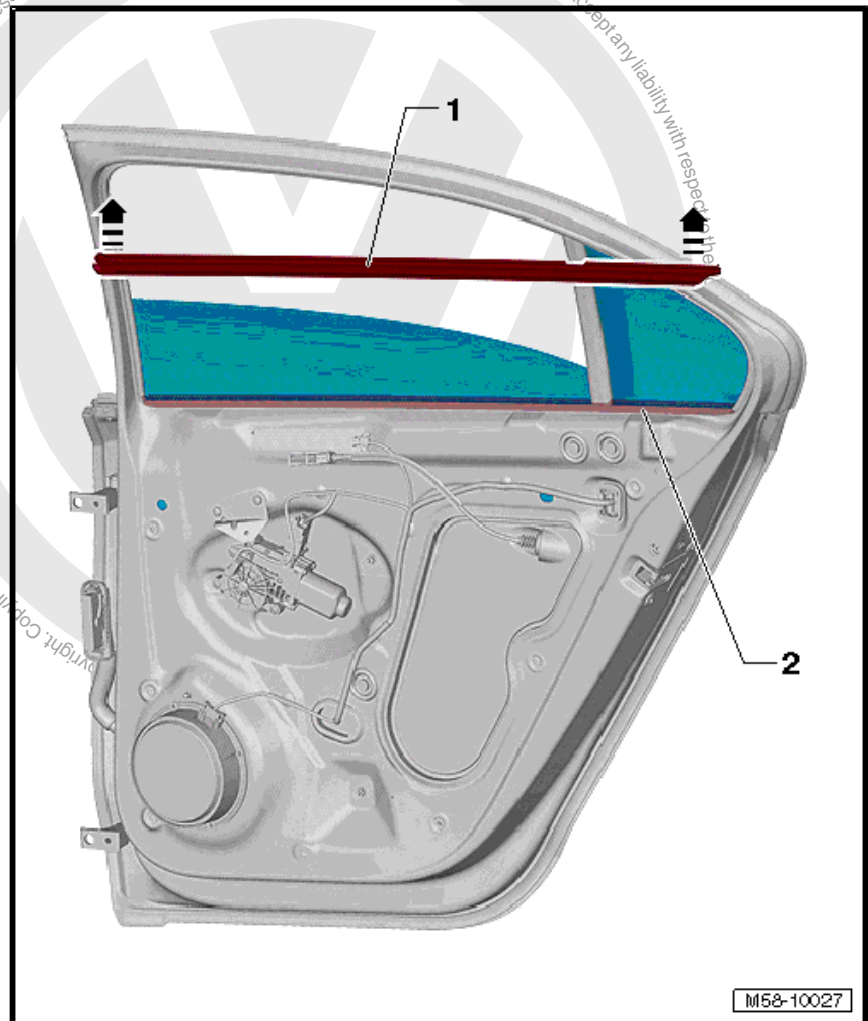


Carry out following work:

- Remove rear door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim .
- Pull seal -1- uniformly -arrows- off flange -2-.



2.11.2 Installing



Carry out following work:

- Push seal -1- evenly onto door flange -2- by hand, starting from B-pillar.
- Install rear door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trims .



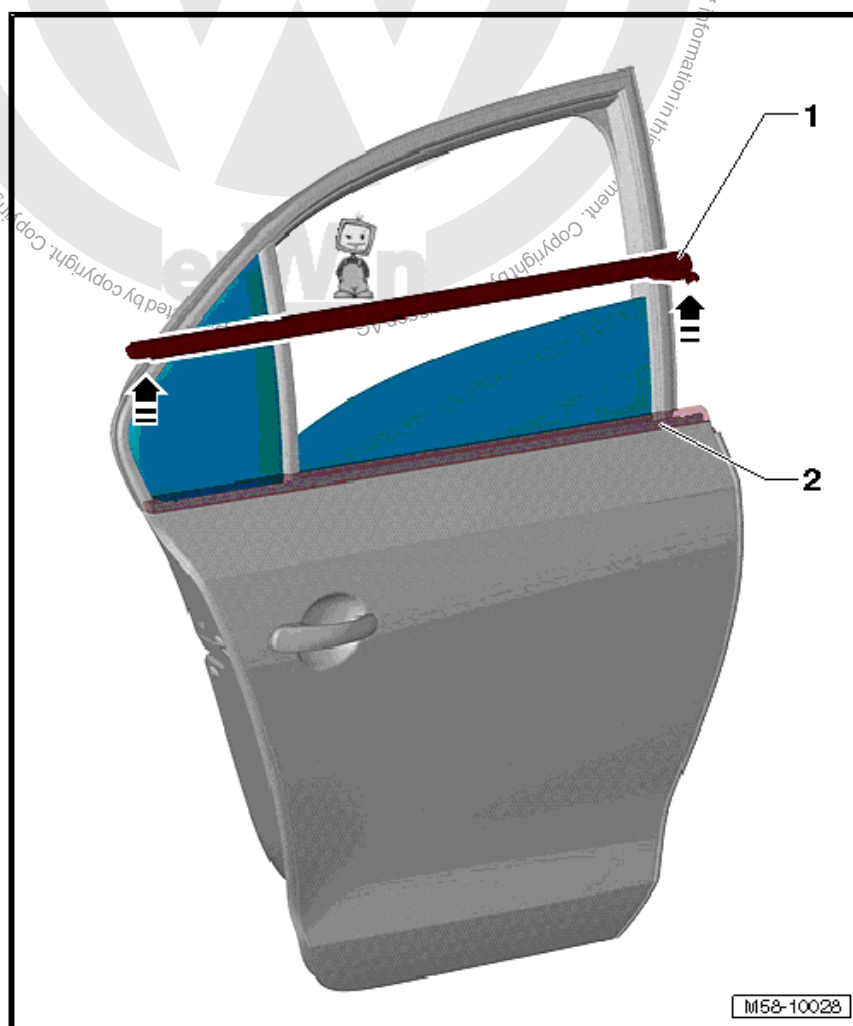
2.12 Removing and installing window slot outer seal

2.12.1 Removing



Note

- ◆ The core of the seal is a metal insert. If this is bent, the seal can no longer be straightened out. It will remain "wavy".
- ◆ Therefore, the seal must be pulled off and pressed on evenly, without bending or distorting it.
- ◆ 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.

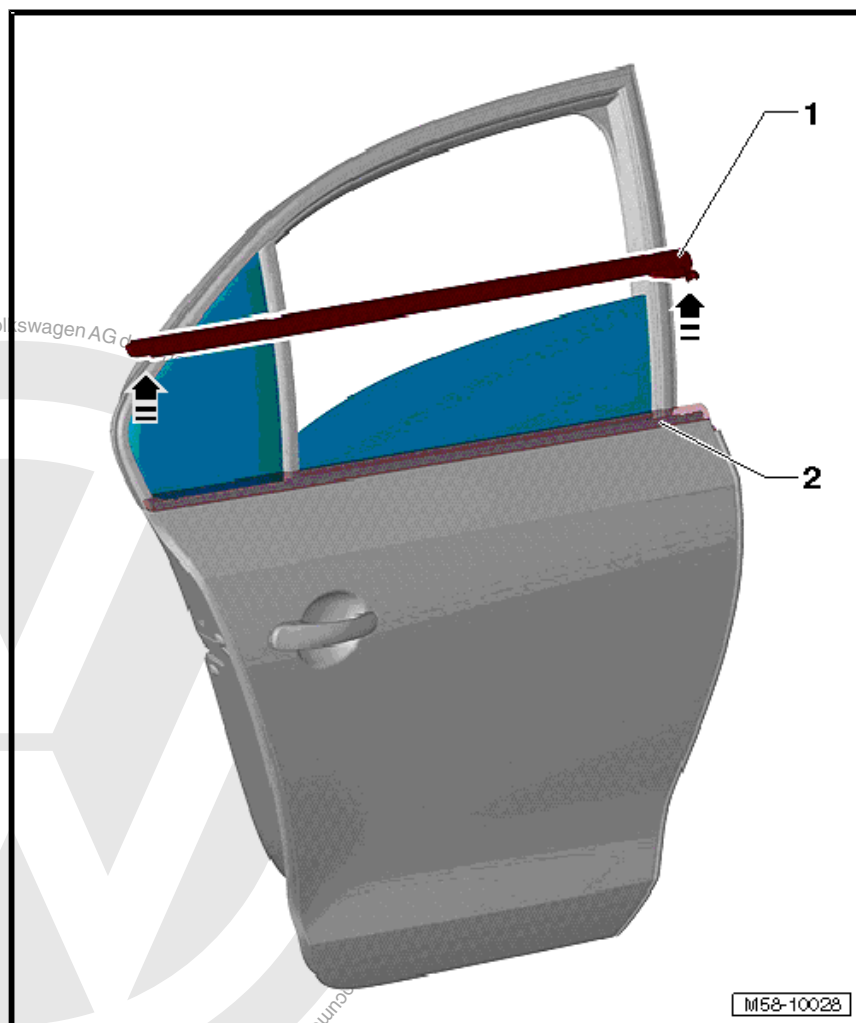


Carry out following work:

- Pull seal -1- uniformly -arrows- off flange -2-.



2.12.2 Installing



Carry out following work:

- Align seal -1- with B-pillar and press evenly onto door flange -2- by hand.

2.13 Removing and installing door inner seal

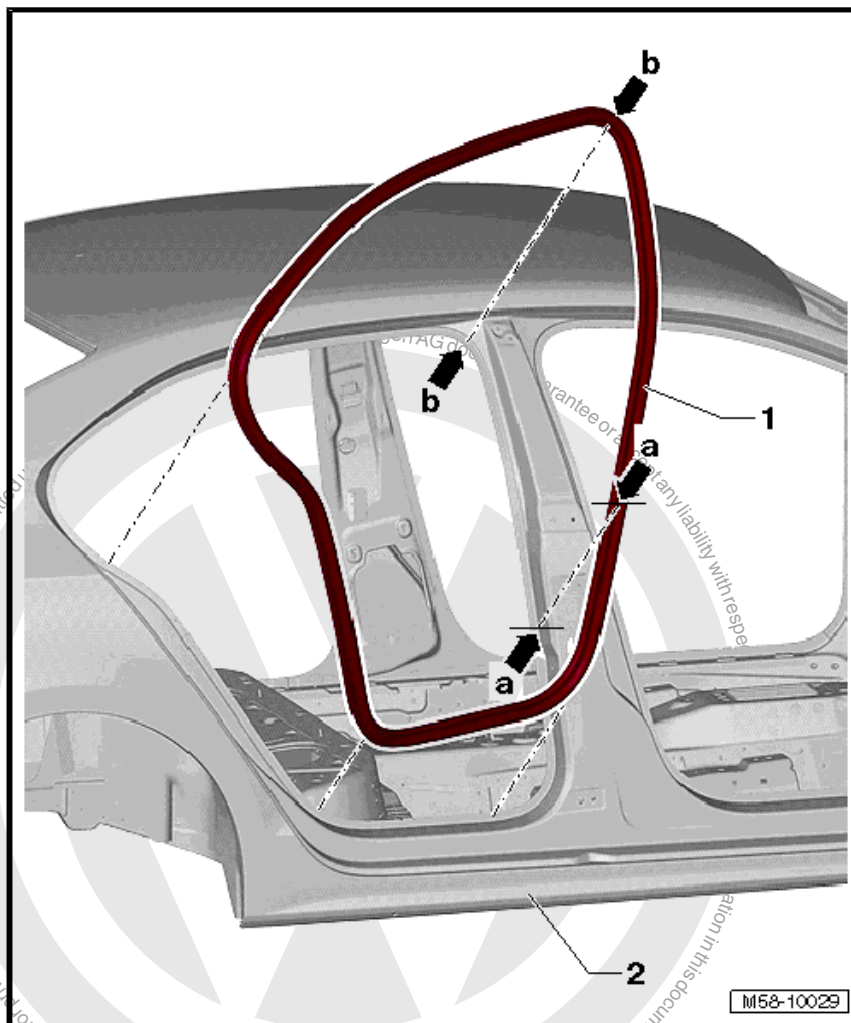
During production, a sealant is applied to the door inner seals, which are then placed on the door flange and rolled on.



Note

- ◆ When removing the seal, the sealant is distributed across the inside of the seal. The sides are bent upwards slightly when this is being done. If the seal is then refitted, sealing and firm seating are no longer guaranteed.
- ◆ Therefore, each seal that is completely removed must be replaced with a seal known as a "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.

2.13.1 Removing



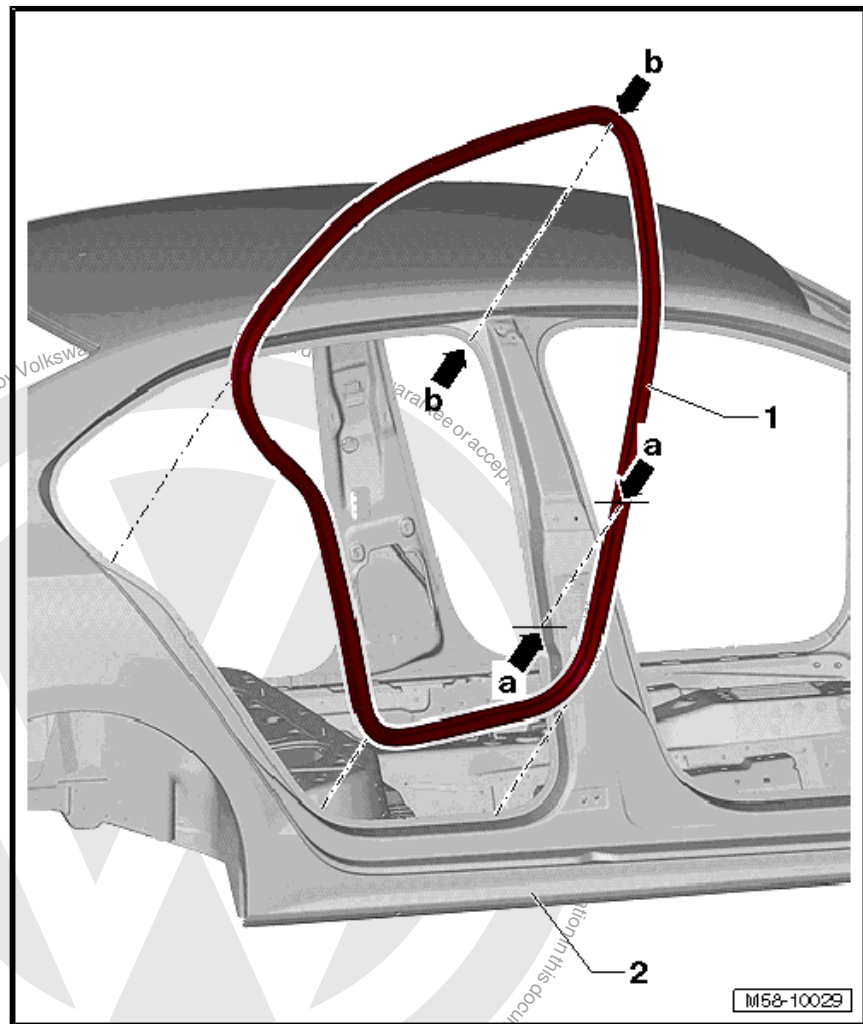
Carry out following work:

- To remove door inner seal, remove pillar trims as required ➤ General body repairs, interior; Rep. gr. 70 ; Pillar and side trims



- Remove sill panel strip ⇒ General body repairs, interior; Rep. gr. 68 ; Sill panel strips .
- Pull door inner seal -1- off body flange -2-.

2.13.2 Installing



Carry out following work:

- Align door inner seal -1- so that vulcanised point -arrow a- is at same height as lower hinge -arrow b-.
- Start installing door inner seal -1- at top radius of door aperture -arrow b-.
- Install sill panel strip ⇒ General body repairs, interior; Rep. gr. 68 ; Sill panel strips .
- Remove side panels ⇒ General body repairs, interior; Rep. gr. 70 ; Pillar and side panel trim .



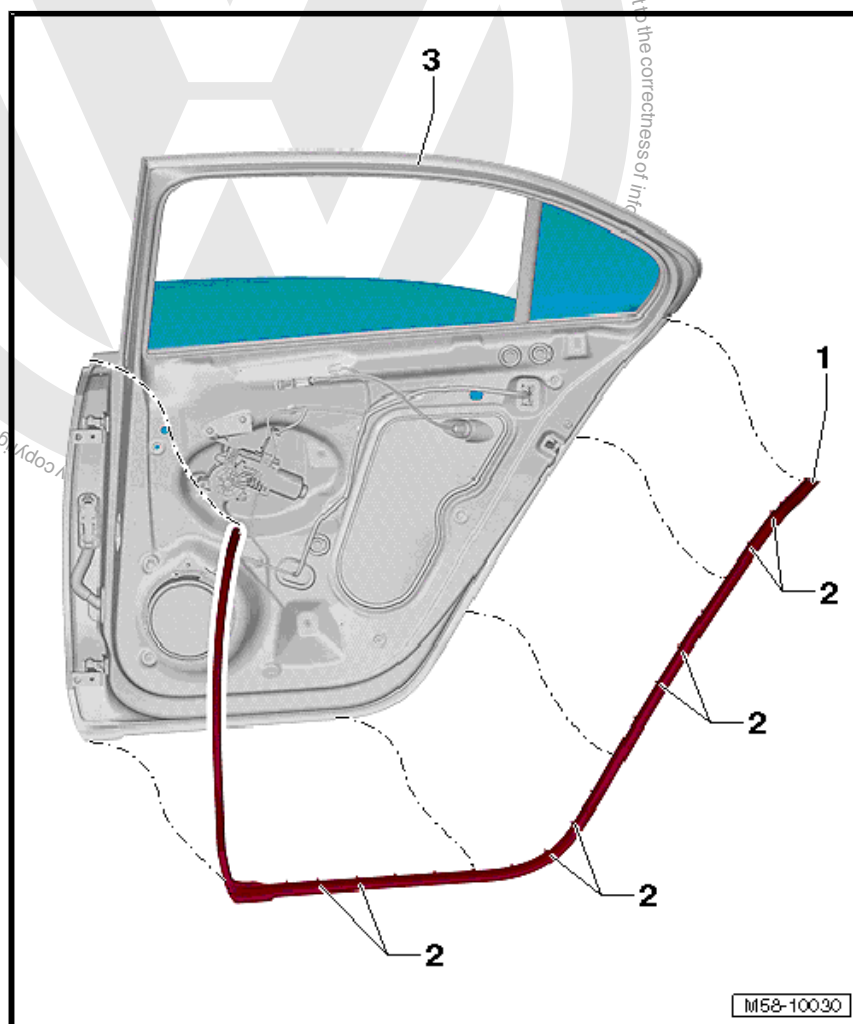
2.14 Removing and installing door outer seal



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 securing door outer seal for damage, renew if necessary.

2.14.1 Removing

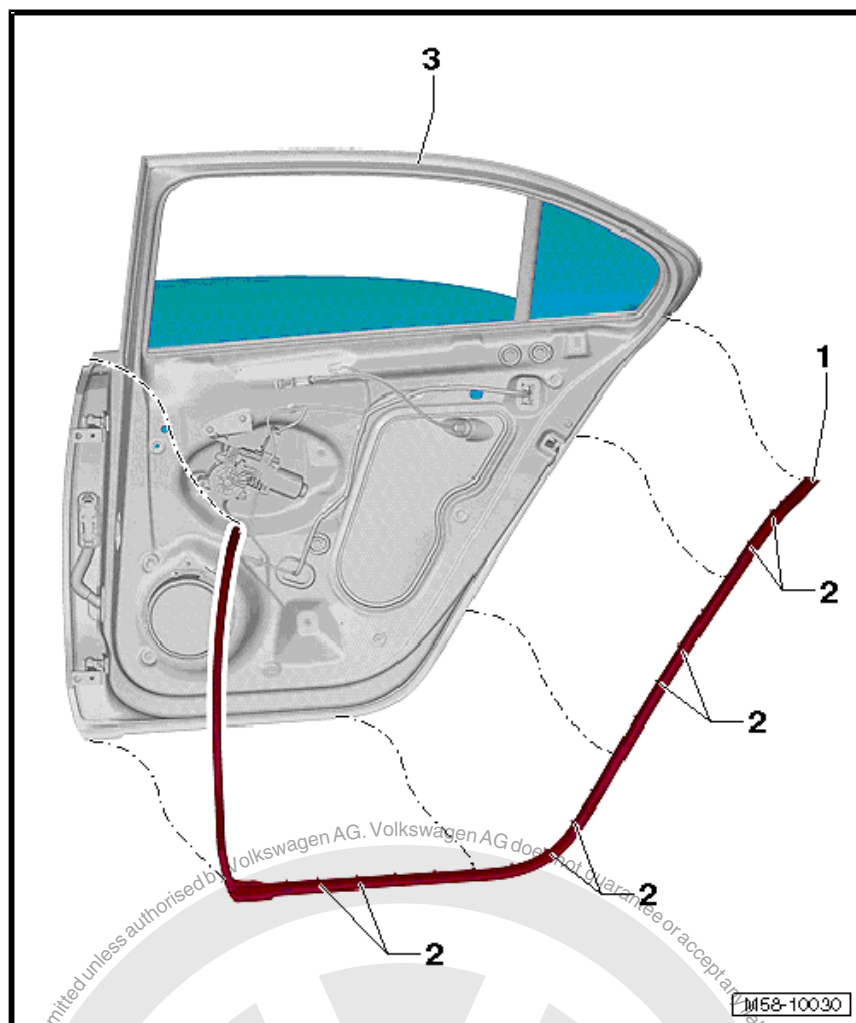


Carry out following work:

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



2.14.2 Installing



Carry out following work:

- The clips -2- are not damaged, otherwise renew.
- Press door outer seal -1- onto door -3-, starting at B-pillar.
- Then, press door outer seal -1- complete with clips -2- onto door -3-.



2.15 Assembly overview - insulation

1 - Insulation

- ☐ Self-adhesive.
- ☐ Installing:
 - Cut to size if necessary.
 - Warm using hot air blower -V.A.G 1416- and push on to outer door panel with force.

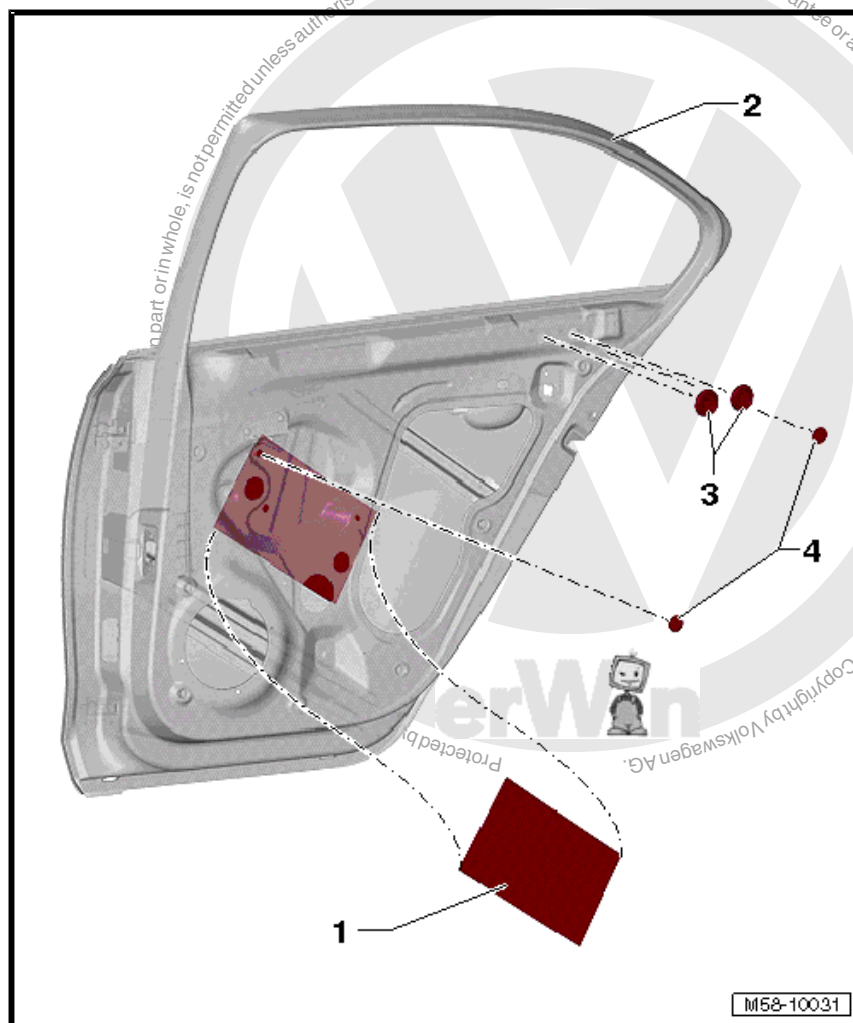
2 - Door

3 - Sticker

- ☐ Ø 40 mm
- ☐ If necessary, manufacture using commercially available textile adhesive tape.

4 - Sticker

- ☐ Ø 20 mm
- ☐ If necessary, manufacture using commercially available textile adhesive tape.





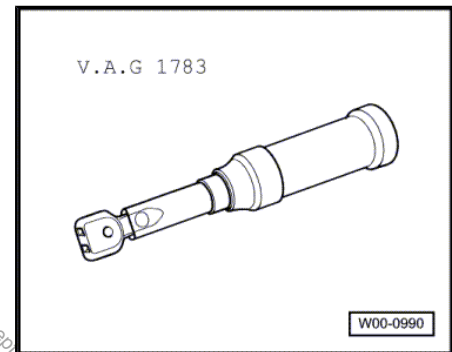
60 – Sunroof

1 Sunroof with glass panel

1.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-



1.2 Function

All actions of the sliding/tilting roof can be performed with ignition switched on.

After the ignition is switched off, actions can be performed until either the driver or front passenger door is opened.

Opening of glass panel can be preselected using rotary switch -1-.

Opening glass panel to the so called comfort position -2-, prevents to a large extent wind noise while driving, which can occur when roof is fully open.

Glass panel can be tilted and closed using pull and push function on rotary switch.

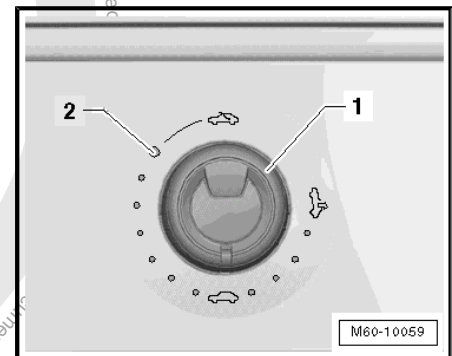
The sunroof is equipped with a force limitation (anti-trap) mechanism for the sliding function. If the sunroof encounters an obstruction while closing, it will open automatically.

In addition, there is an emergency closure function. If problems occur during closure, sliding/tilting roof can be forced to close by pulling rear end of rotary switch. Rotary switch must thus be in "Sliding sunroof closed" position.

The roll-back function is disabled when the emergency closure function is active.

The sliding sunroof motor is equipped with an overheating protection, whose activation depends on various parameters. The sliding sunroof motor is functional again after a cooling-off phase.

In the event of power failure, the sunroof can be moved using a crank directly on the drive.





1.3 Assembly overview

1 - Glass panel for sliding/tilting sunroof (single pane safety glass)

- ☐ Removing and installing ➔ [page 157](#)
- ☐ Height adjustment ➔ [page 158](#)
- ☐ Checking parallel running ➔ [page 159](#)
- ☐ Adjusting parallel running ➔ [page 160](#)

2 - Boot

- ☐ Left and right.
- ☐ To cover guide plate.

3 - Bolt

- ☐ Qty. 3 on each side.
- ☐ Specified torque: 7 Nm

4 - Bolt

- ☐ Qty. 2 on each side.
- ☐ Specified torque: 1 Nm
- ☐ For attaching slide to sliding headlining.

5 - Slide

- ☐ Qty. 2 on each side.
- ☐ For sliding headlining.

6 - Sliding headlining

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

7 - Carrier unit

- ☐ Removing and installing ➔ [page 165](#)
- ☐ U-frame (with guide channels): Grease guide channels as required with special grease G 000 450 02 only. Otherwise correct operation cannot be guaranteed.

8 - Bolt

- ☐ Qty. 12.
- ☐ Specified torque: 8 Nm
- ☐ For attaching carrier unit to roof

9 - Bolt

- ☐ Qty. 3.
- ☐ Specified torque: 4 Nm

10 - Drive for sliding/tilting sunroof

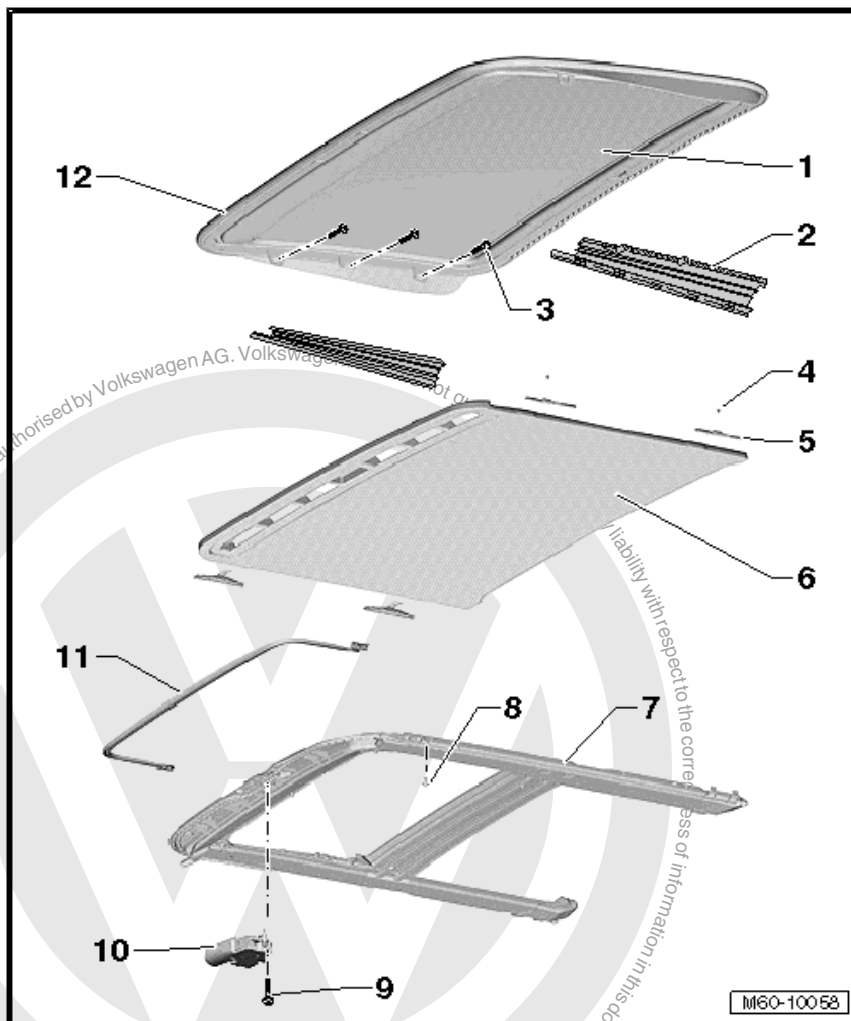
- ☐ Removing and installing ➔ [page 162](#)
- ☐ Adjusting ("0" position) ➔ [page 163](#)

11 - Wind deflector

- ☐ Removing and installing ➔ [page 160](#)

12 - Panel seal

- ☐ Renewing ➔ [page 160](#)



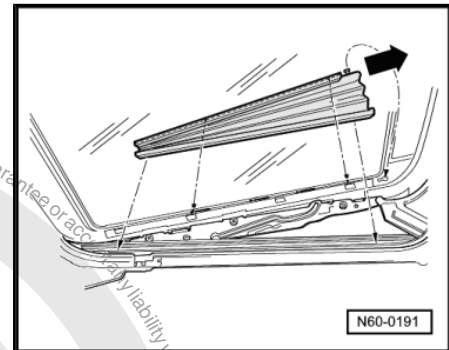


1.4 Removing and installing sliding/tilting sunroof glass panel

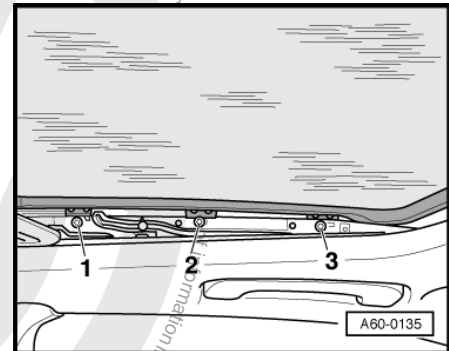
1.4.1 Removing

Carry out following work:

- Push sliding headliner to rear.
- Raise sliding/tilting sunroof
- Unclip bellows along lower strip.
- Loosen the two front catches and push bellows backwards out of guide -arrow-.
- Move glass panel to zero position.



- Remove bolts -1- and -3-
- Loosen bolt -2- by turning it a few times (do not unscrew completely).
- Take out glass panel upwards out of roof cut-out.



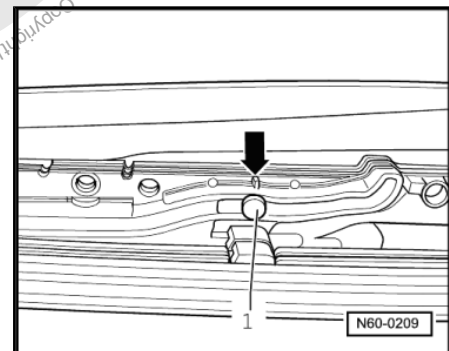
1.4.2 Installing

Carry out following work:

- Guide pins -1- must align with markings -arrow- on left and right guide plates.

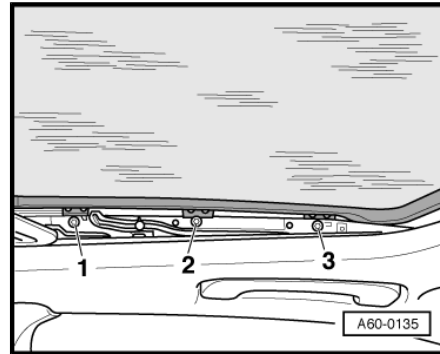
If this is not the case, adjust parallel running ⇒ [page 160](#)

- Insert glass panel from above into roof cut-out.





- Screw in bolts -1- and -3- but only tighten slightly; do not tighten fully until height of glass panel has been adjusted.
- Carry out height-adjustment of glass panel ➤ [page 158](#) .



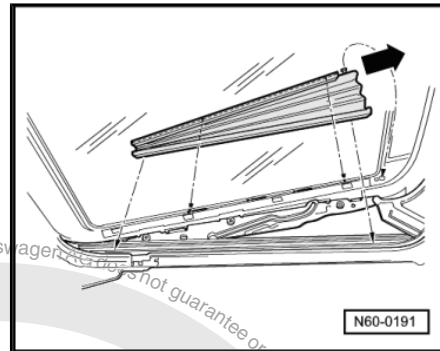
1.5 Height-adjustment of glass panel

Carry out following work:

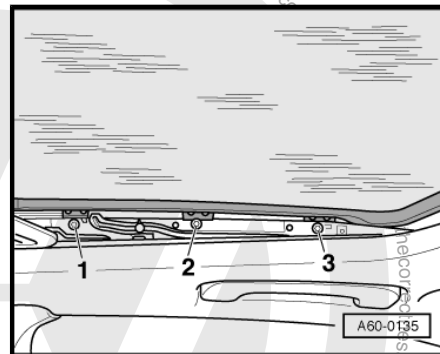
Bellows not yet removed.

- Push sliding headliner to rear.
- Raise sliding/tilting sunroof
- Unclip bellows along lower strip.
- Loosen the two front catches and push bellows backwards out of guide -arrow-.
- Move glass panel to zero position.

Continued for all vehicles:



- Loosen bolts -1...3- (do not unscrew completely).
- To prevent wind noises, carry out front and rear height adjustment in accordance with illustrations.

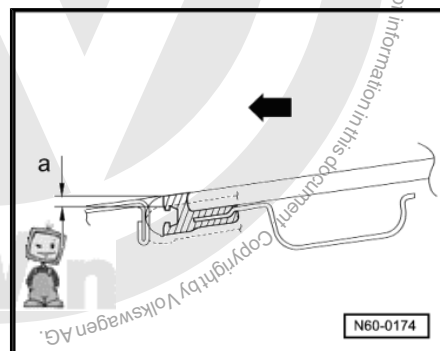


Height-adjustment of glass panel at front (-arrow- points in direction of travel).

-a- = 0...1 mm lower than roof line

- Tighten front bolts for glass panel.

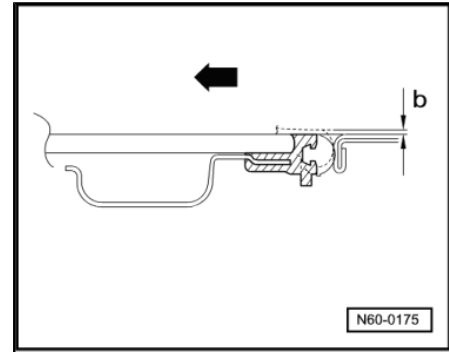
Specified torque of bolts: 7 Nm



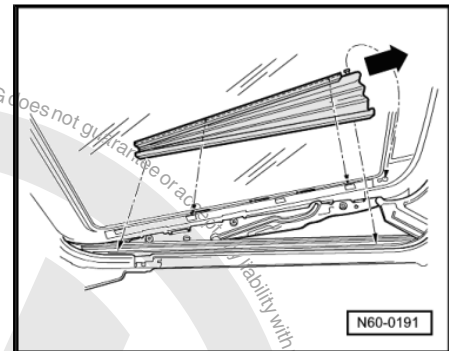


Height-adjustment of glass panel at rear (-arrow- points in direction of travel).

- b- = 0...1 mm higher than roof line
 - Tighten rear bolt for glass panel.
 - Tighten middle bolt for glass panel.
- Specified torque of bolts: 7 Nm
- Raise sliding/tilting sunroof



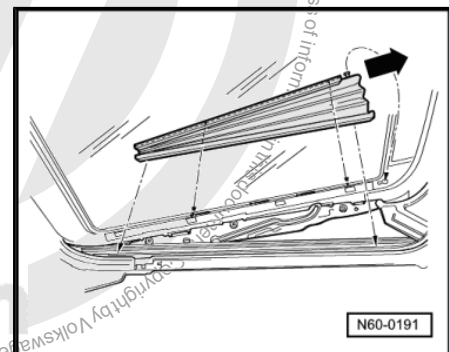
- Press bellows into mounts of guide plate.
- Clip bellows into assembly frame.



1.6 Checking parallel running of glass panel

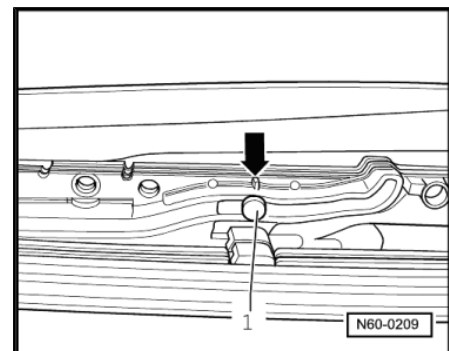
Carry out following work:

- Push sliding headliner to rear.
- Raise sliding/tilting sunroof
- Unclip bellows along lower strip.
- Loosen the two front catches and push bellows backwards out of guide -arrow-.
- Move glass panel to zero position.



- Guide pins -1- must align with markings -arrow- on left and right guide plates.

If this is not the case, adjust parallel running ➤ [page 160](#) .





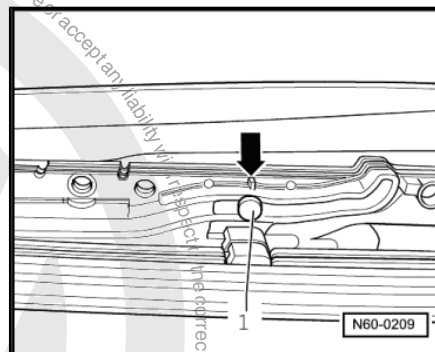
1.7 Adjusting parallel running of glass panel

Note

Parallel running can only be adjusted if sliding/tilting sunroof drive and glass panel have been removed (in "0" position).

Carry out following work:

- Remove glass panel ⇒ [page 157](#) .
- Removing sunroof drive ⇒ [page 162](#) .
- Move guide plates on both sides by hand until guide pin -1- is aligned with marking -arrow- on guide plate.
- Adjust and install sliding/tilting sunroof drive ⇒ [page 162](#) .
- Install glass panel ⇒ [page 157](#) .



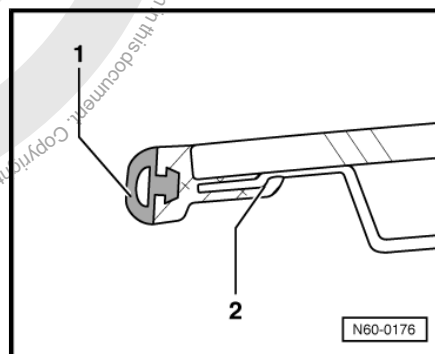
1.8 Renewing panel seal

Carry out following work:

- Remove glass panel ⇒ [page 157](#) .
- Pull seal -1- off glass panel -2-.
- Press new seal into groove in glass panel -2-.

Note

To ease fitting of seal, coat panel edge with a soapy solution.



1.9 Removing and installing wind deflector

1.9.1 Removing

Carry out following work:

- Open sunroof completely.
- Remove carrier unit ⇒ [page 165](#) .



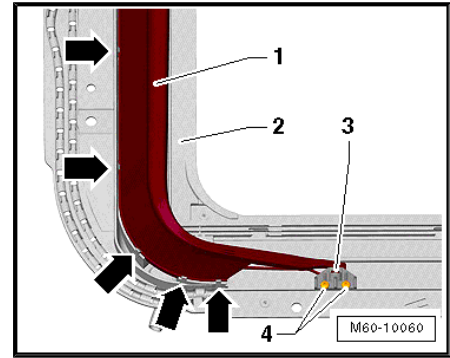
- Unclip wind deflector -1- from carrier unit -2- -arrows-.



Caution

The wind deflector and the pivot point are preloaded by the wind deflector spring. This preload must not be released by loosening the pivot point screws as otherwise the thread in the assembly unit will become damaged.

- Press pivot point -3- against assembly unit -2-, thereby preserving preload when screws are removed.
- Remove screws -4- on left first and then on right, ensuring that pressure is applied against respective pivot point -3- to preserve preload.
- Remove pivot points -3- with springs and wind deflector -1-.



1.9.2 Installing

Carry out following work:

- Place wind deflector -1- together with springs and pivot points -3- on assembly unit -2-.



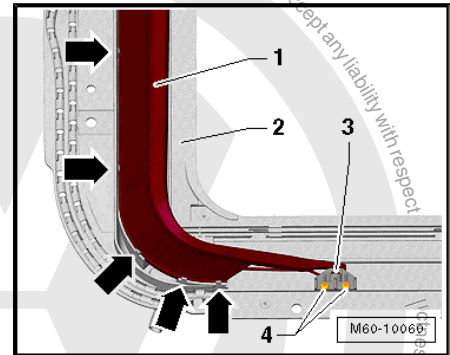
Caution

The wind deflector and the pivot point are preloaded by the wind deflector spring. This preload must not be introduced by screwing in the pivot point screws as otherwise the thread in the assembly unit will become damaged.

- Press pivot point -3- against assembly unit -2-, thereby introducing preload when screws are screwed in.
- Screw in screws -4- on left first and then on right, ensuring that pressure is applied against respective pivot point -3- to preserve preload.

Specified torque for bolts -4-: 1.5 Nm.

- Clip wind deflector -1- into carrier unit -2- -arrows-.
- Installing carrier unit ⇒ [page 165](#) .



1.10 Removing and installing sliding headlining

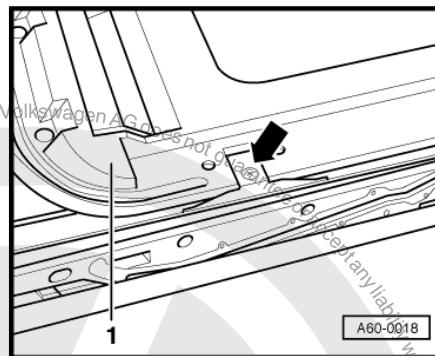
1.10.1 Removing

Carry out following work:

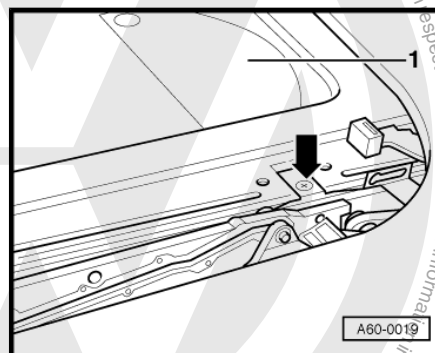
- Remove glass panel ⇒ [page 157](#) .
- Push sliding headliner a little towards the rear.



- Unscrew and remove front screws -arrow- on left and right.
- Push spring slide forwards over stop -1- and take out.
- Push sliding headliner forwards and raise slightly above the roof cut-out.



- Unscrew rear screws -arrow- on left and right.
- Pull out spring slide to rear and remove sliding headlining -1- upwards.



1.10.2 Installing

Carry out following work:

Install in reverse order of removal.

Specified torque of bolts: 1 Nm

1.11 Removing and installing sliding/tilting sunroof drive

1.11.1 Removing

Carry out following work:



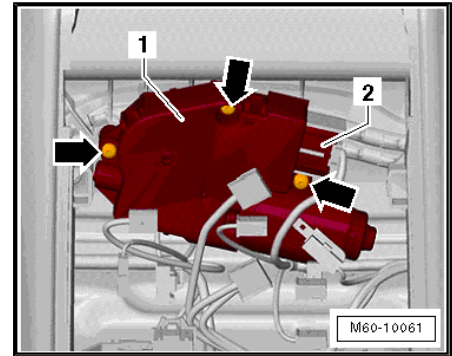
Note

Remove or install drive for sliding/tilting roof only when glass panel is closed.

- Remove front interior light -W1- ⇒ Electrical system; Rep. gr. 96 ; Front interior light -W1- (with sliding roof) .



- Undo bolts -arrows- and pull off drive for sliding/tilting roof -1-.
- Detach connector -2- from drive for sliding/tilting roof.



1.11.2 Installing

Carry out following work:

- Drive for sliding/tilting roof (zero position).

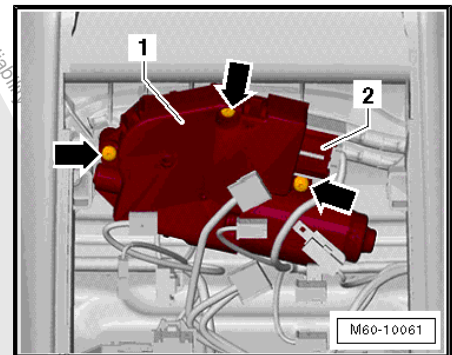
If this is not the case, set to "0" position ⇒ [page 163](#) .

- Attach connector -2- to drive for sliding/tilting roof.
- Position drive for sliding/tilting roof -1- in mounting position and screw in bolts -arrows-.

Specified torque for bolts -arrows-: 4 Nm.

Install front interior light -W1- ⇒ Electrical system; Rep. gr. 96 ; Front interior light -W1- (with sliding roof) .

- Perform programming run for sliding/tilting roof ⇒ [page 163](#) .



1.12 Setting drive for sliding/tilting sunroof to zero position

Carry out following work:

- Electric motor removed; electrical connections connected.
- Use automatic preselector control function to select "Roof closed".
- Electric motor runs into zero position and cuts out automatically.
- Install motor in this position with sliding roof closed.

1.13 Performing programming run for drive for sliding/tilting sunroof



Note

Following removal and installation or renewal of the sliding/tilting sunroof drive, the system needs to be conditioned to ensure that the sliding/tilting sunroof works correctly.

- Switch on ignition and close doors; also close sliding roof if open.
- Pull operating switch for sliding/tilting roof and hold in this position for 10 seconds.



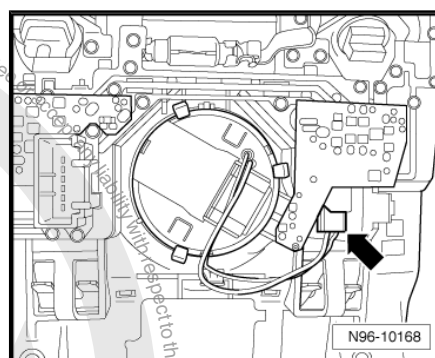
- The glass panel is opened and moves towards the rear as far as the end stop; it is then moved forwards until it finally closes.
- ◆ During the entire programming run, the operating switch for the sliding/tilting roof must remain in the pulled position.
- ◆ The programming run is thus completed.

1.14 Removing pre-selector control for sliding/tilting sunroof

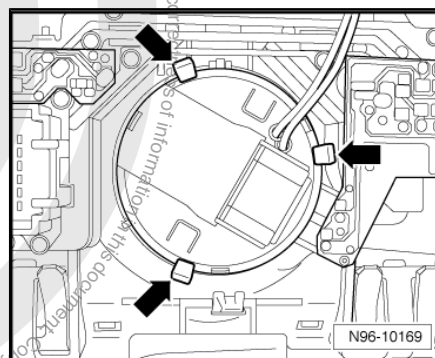
1.14.1 Removing

Carry out following work:

- Remove front interior light -W1- ⇒ Electrical system; Rep. gr. 96 ; Front interior light -W1- (with sliding roof)
- Release connector -arrow- and disconnect.



- Release locking lugs -arrows- and remove preselector control for sliding/tilting roof from mounting frame.



1.14.2 Installing

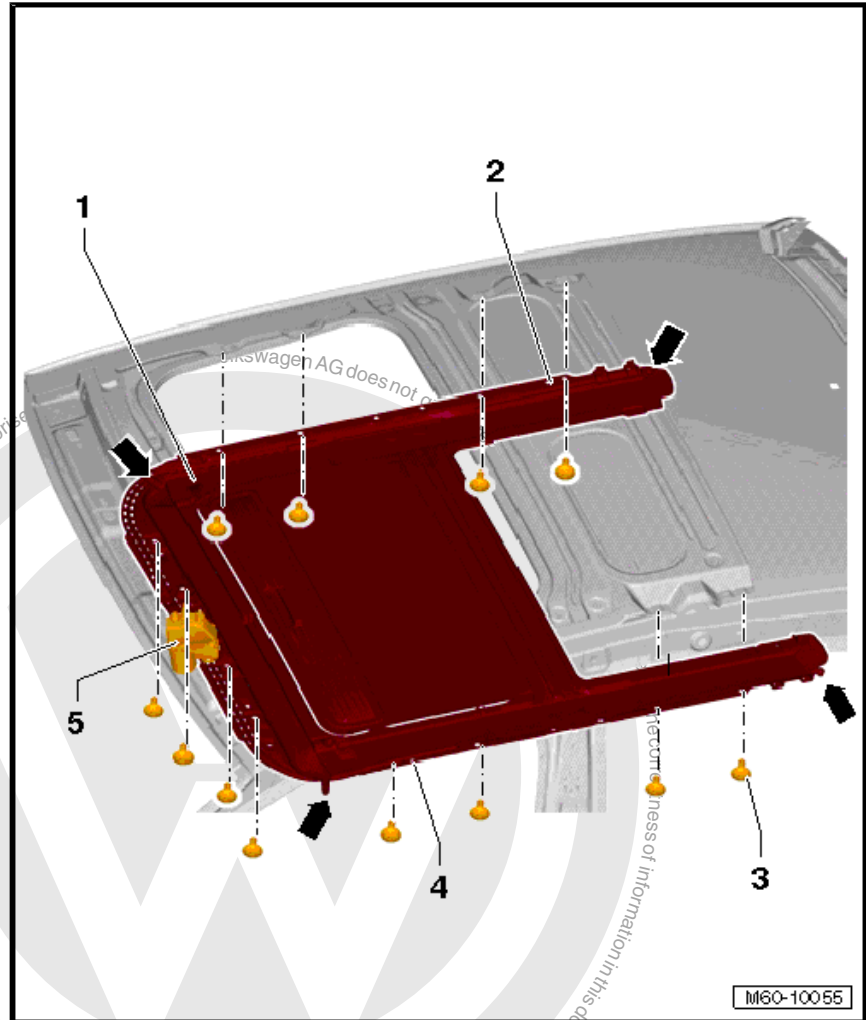
Carry out following work:

Install in reverse order of removal.



1.15 Removing and installing carrier unit

1.15.1 Removing



Carry out following work:

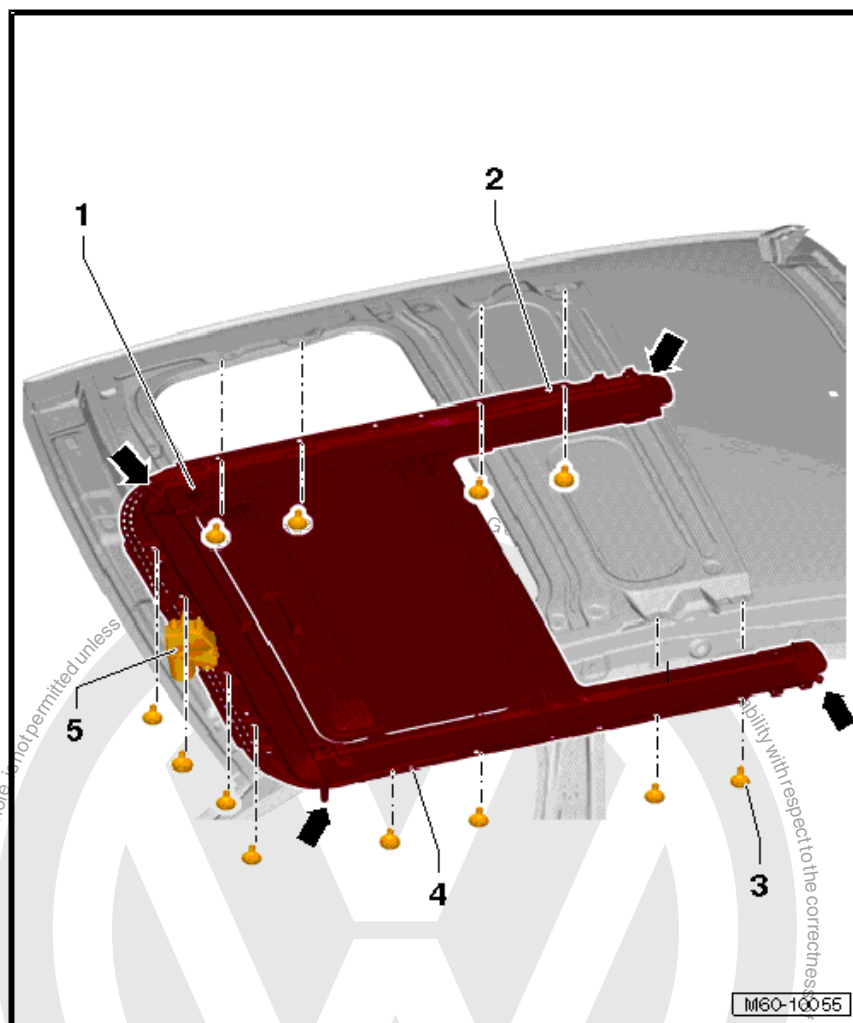
- Lower moulded headliner (do not remove from vehicle) ⇒ General body repairs, interior; Rep. gr. 70 ; Roof trims :
- Pull water drainage hoses off nozzles -arrows- of carrier unit -1-.
- Detach connector -5- from drive for sliding/tilting roof.

Further dismantling requires the assistance of a second mechanic.

- Undo bolts -3- and lift carrier unit -1- out of vehicle with help of second mechanic.



1.15.2 Installing



Carry out following work:

- Fit carrier unit -1- into roof aperture with the help of a second mechanic.
- During installation, use two cylindrical pins (inverted drill bits) to align carrier unit -1- front right 12 mm -4- and rear left 10 mm -2- in roof.

Carrier unit must not contact roof frame.

- Insert bolts -3- but do not tighten yet.
- Check for correct routing of lines and connectors of electrical consumers in roof and restore if necessary.
- First, tighten the 2 bolts -3- at the front right and rear left at the positioning pins.
- Then tighten bolts -3- on left and right on carrier unit -1-.
- Finally, tighten bolts -3- at front of carrier unit -1-.

Specified torque for bolts -3-: 8 Nm.



- Fit water drainage hoses onto nozzles -arrows- of carrier unit -1-.
- Install moulded headliner ⇒ General body repairs, interior;
Rep. gr. 70 ; Roof trim .

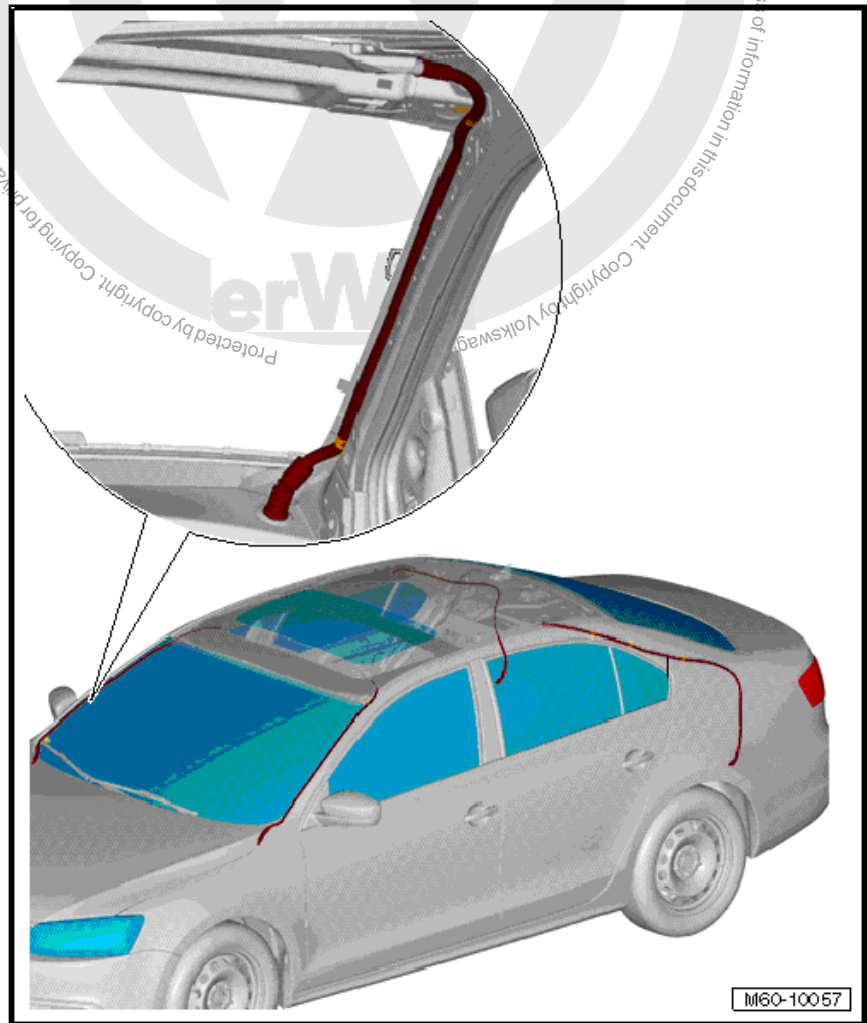
1.16 Cleaning water drain hoses



Note

For cleaning, a locally manufactured tool made from a speedometer inner cable, approx. 2300 mm long is recommended.

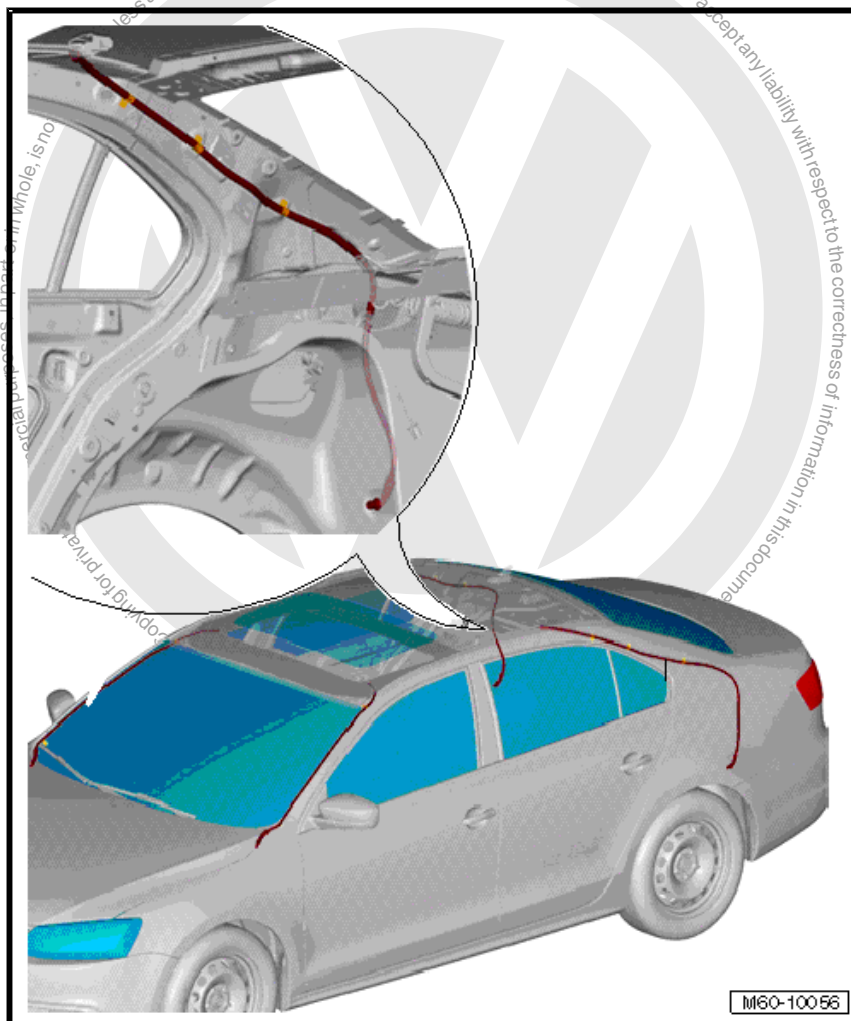
1.16.1 Front water drain hoses



The front water drain hoses run through the A-pillars and end at the bulkhead cross member. Cleaning is done from the sunroof panel aperture.



1.16.2 Rear water drain hoses



The rear water drainage hoses run through the C-pillars and end in the rear wheel housings. Cleaning is done from the wheel housing. The wheel housing liner must be removed
⇒ [page 236](#) .



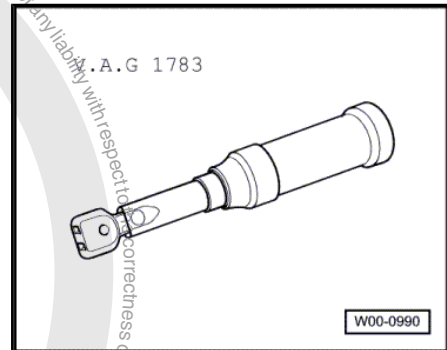
63 – Bumpers

1 Front bumper cover

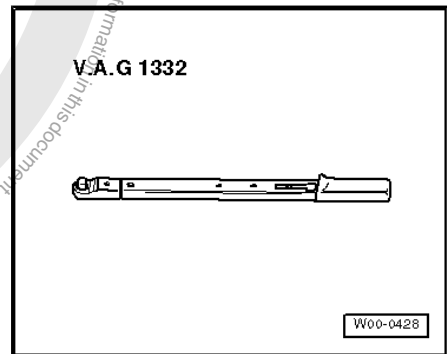
1.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-



- ◆ Torque wrench -V.A.G 1332-



1.2 Repairing front bumper cover



Note

If 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 .

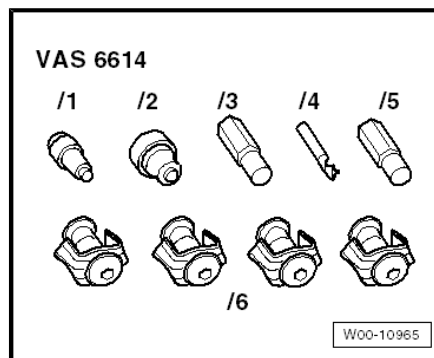
1.3 Installing brackets for parking aid system

1.3.1 Tools

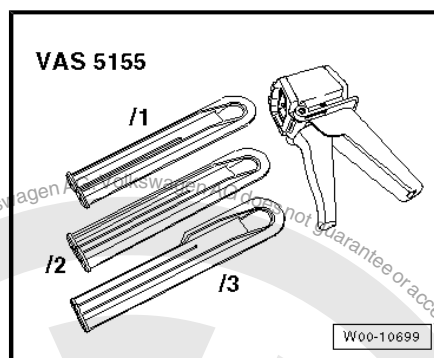
Special tools and workshop equipment required



- ◆ Installation tool for PDC bracket -VAS 6614-



- ◆ Cartridge gun -VAS 5155-



1.3.2 Materials

- ◆ 2-component plastic adhesive -D 180 K2 A1- 1) 1 2) 2
- ◆ Bonding agent for plastics -D 1) 1 822 150 A1-
- ◆ Cleaning solution -D 009 401 1) 1 04-
- ◆ Primer applicator

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

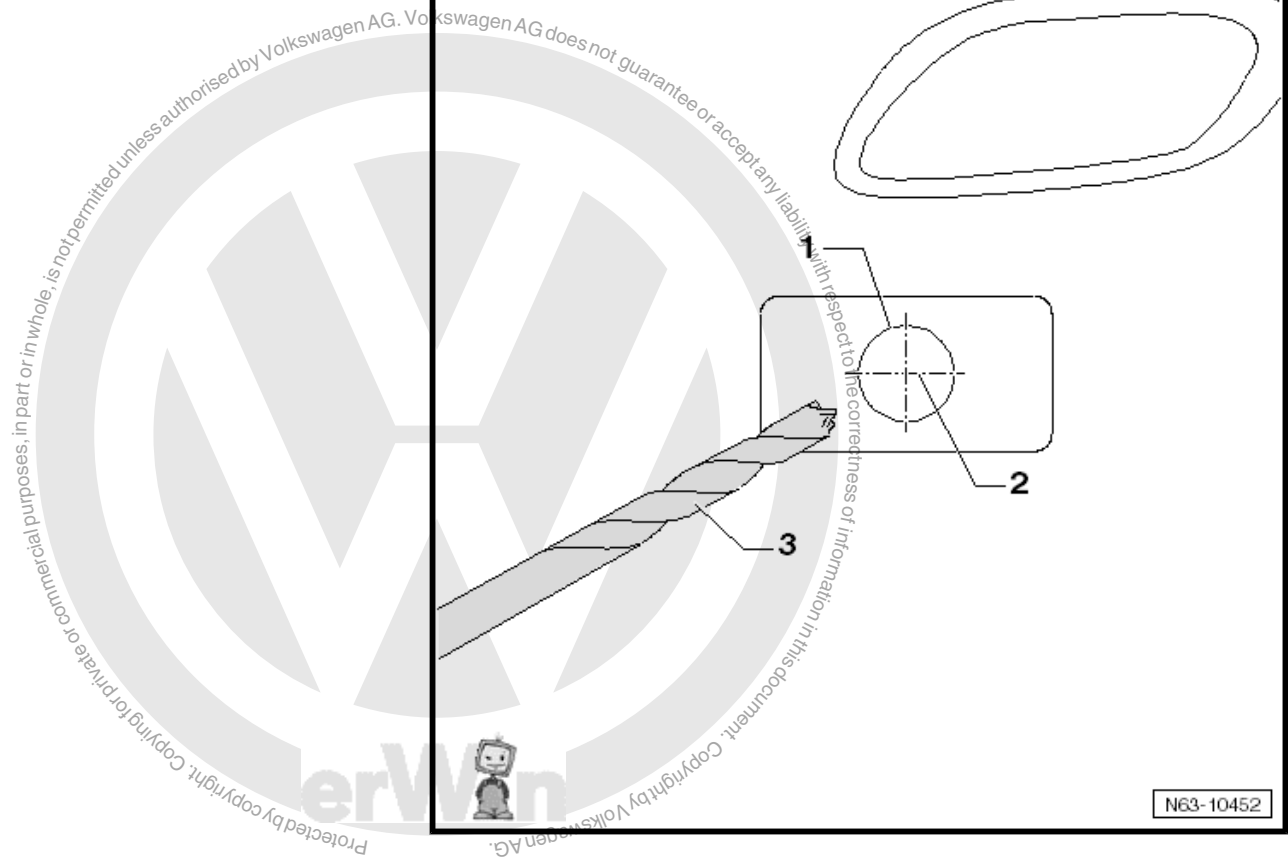
2) Observe minimum curing period ➔ [page 174](#) .

1.3.3 Installing brackets



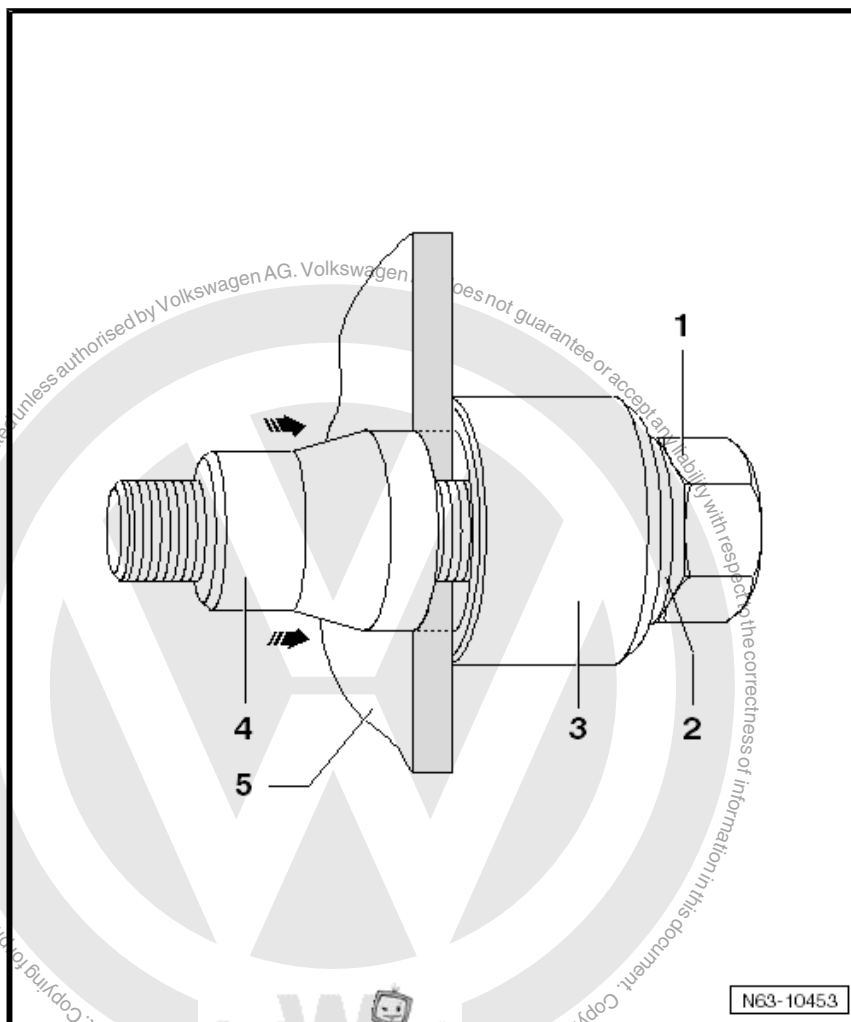
Note

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-.



- Fix the hole puncher in position with bolt head -1-, washer -2- and thrust bearing -3- from the inside of the 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

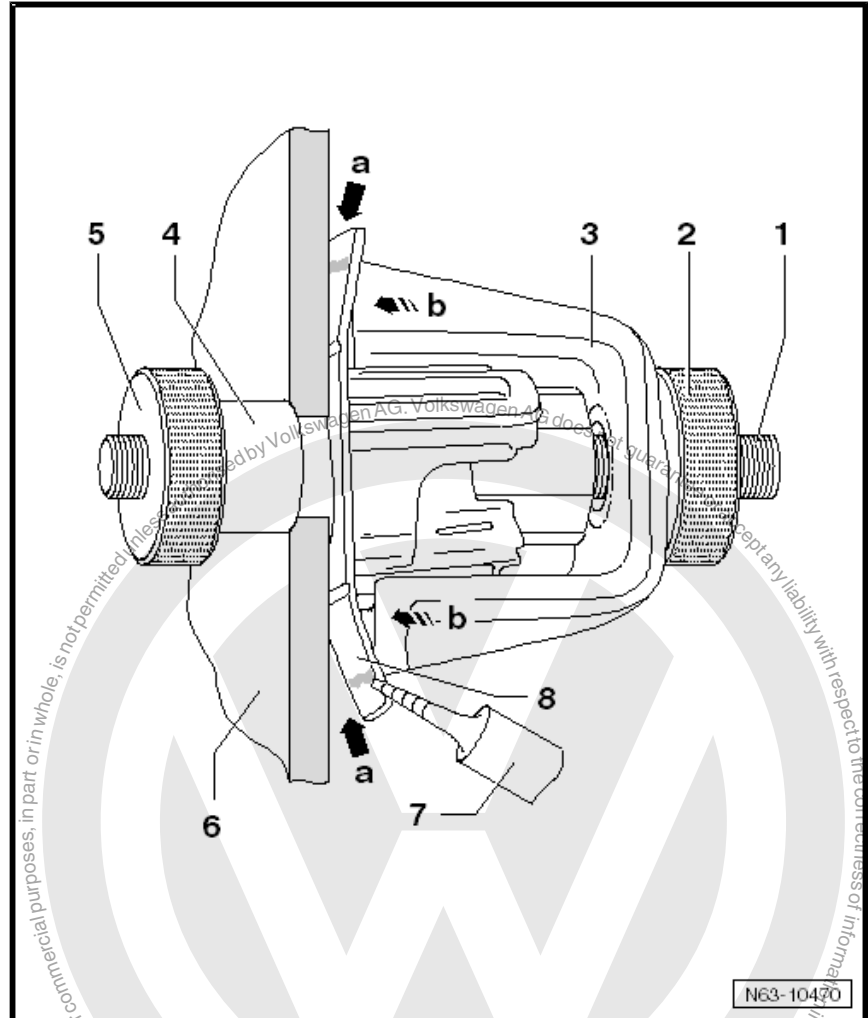
The punch -4- must not turn on the paint of the bumper cover.

- 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 bumper cover and bracket with cleaning solution.



Note

Approx. 1 cm of adhesive from tip should not be applied.



- Lightly sand inside of bumper cover -6- and clean thoroughly.
- Apply primer to bumper cover and bracket and allow to air for 10 minutes.
- Push bracket -8- onto centring pin -1- and through bumper cover -6-.
- Push counterhold -4- on and gently tighten knurled nut -5-.
- Push clip -3- on and then place knurled nut -2- in position but do not tighten it.
- All the brackets are prepared by this stage.



Note

The adhesive must not run into the angle.



- Apply adhesive as shown in illustration and tighten knurled nut -2-.
- Remove all centring pins after minimum curing period, minimum curing period ➔ [page 174](#)

1.3.4 Minimum curing period

Do not carry out any further work on bumper cover or brackets until the minimum curing period of 30 minutes has expired.

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

1.4 Assembly overview - front bumper cover



Note

There may be minor differences between bumper covers, depending on vehicle model.

1 - Front bumper cover

- ☐ Material PP/EPDM.
- ☐ Removing and installing ➔ [page 175](#)

2 - Bolt

- ☐ Left and right.
- ☐ Points upwards.
- ☐ Specified torque: 2 Nm

3 - Bolt

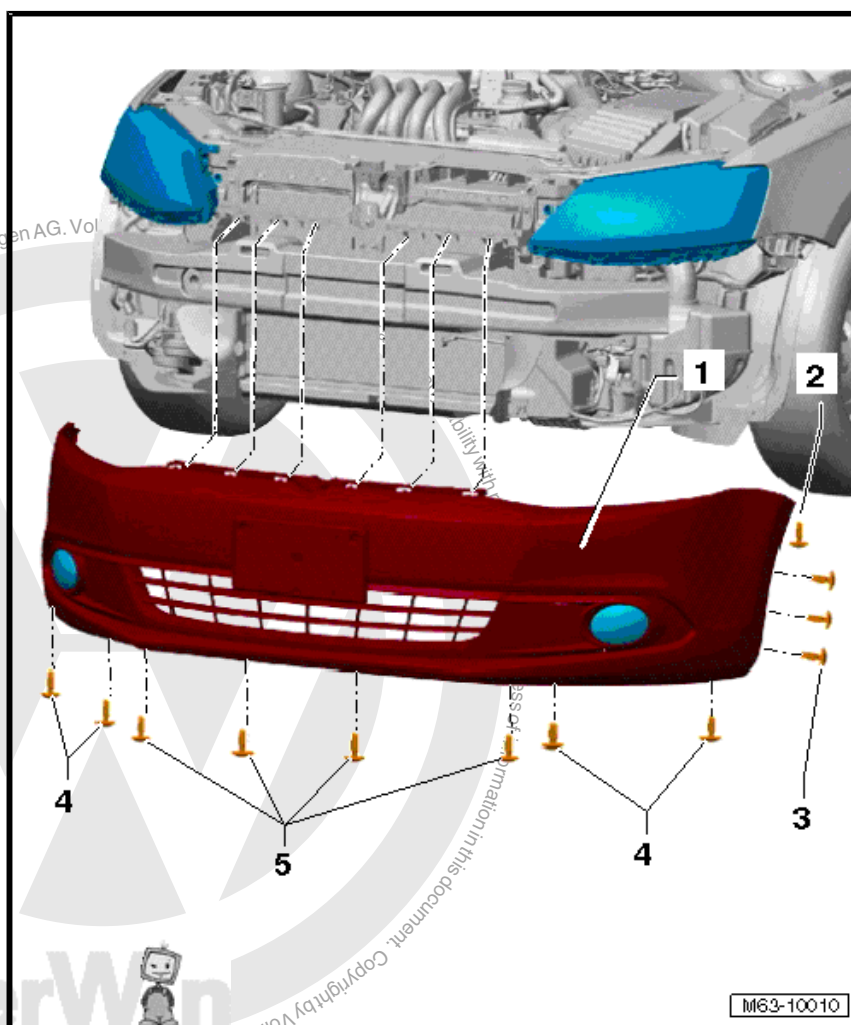
- ☐ Qty. 4 on each side.
- ☐ Specified torque: 2 Nm
- ☐ Bolted to wheel housing liner.

4 - Bolt

- ☐ Qty. 2 on each side.
- ☐ Specified torque: 2 Nm
- ☐ Bolted to wheel housing liner.

5 - Bolt

- ☐ Qty. 4.
- ☐ Specified torque: 2 Nm
- ☐ Bolted to lock carrier.





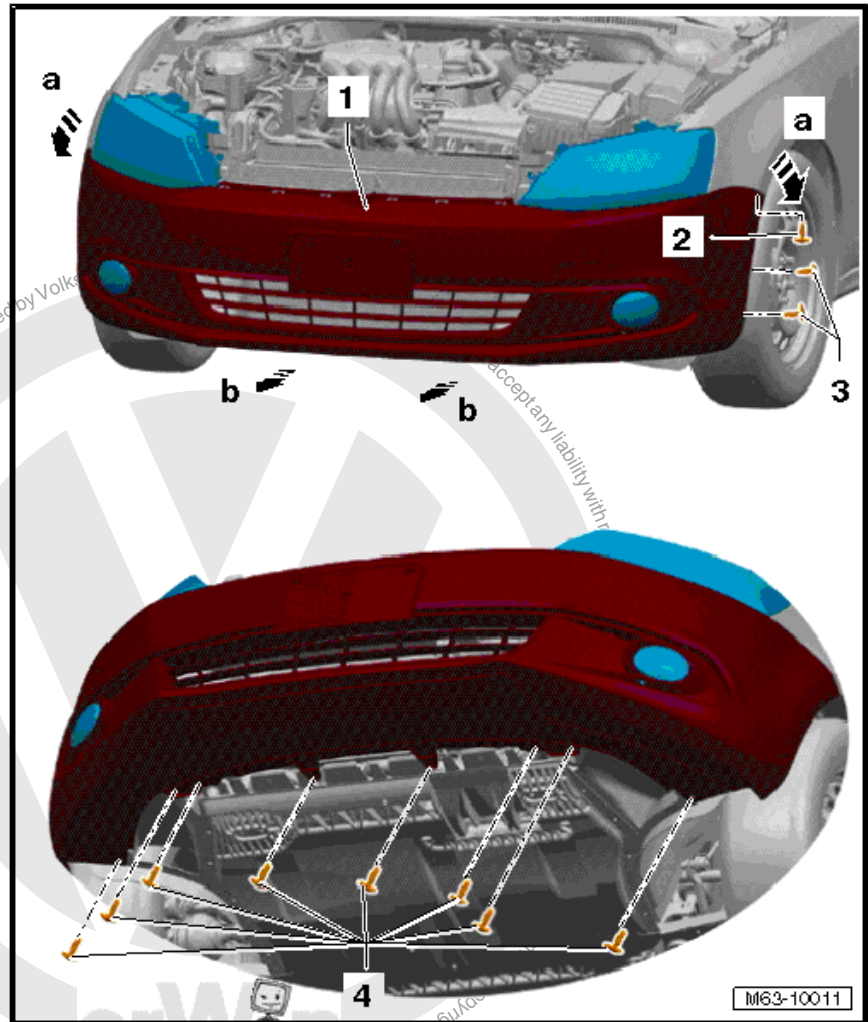
1.5 Removing and installing front bumper cover



Note

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

1.5.1 Removing



Carry out following work:

- Remove radiator grille ➔ [page 261](#) .
- Undo bolts -2- in wheel housing (pointing upwards) on left and right.
- Remove bolts -3- for fastening wheel housing liner on left and right.
- Unscrew bolts -4- from underneath.

Further dismantling requires the assistance of a second mechanic.



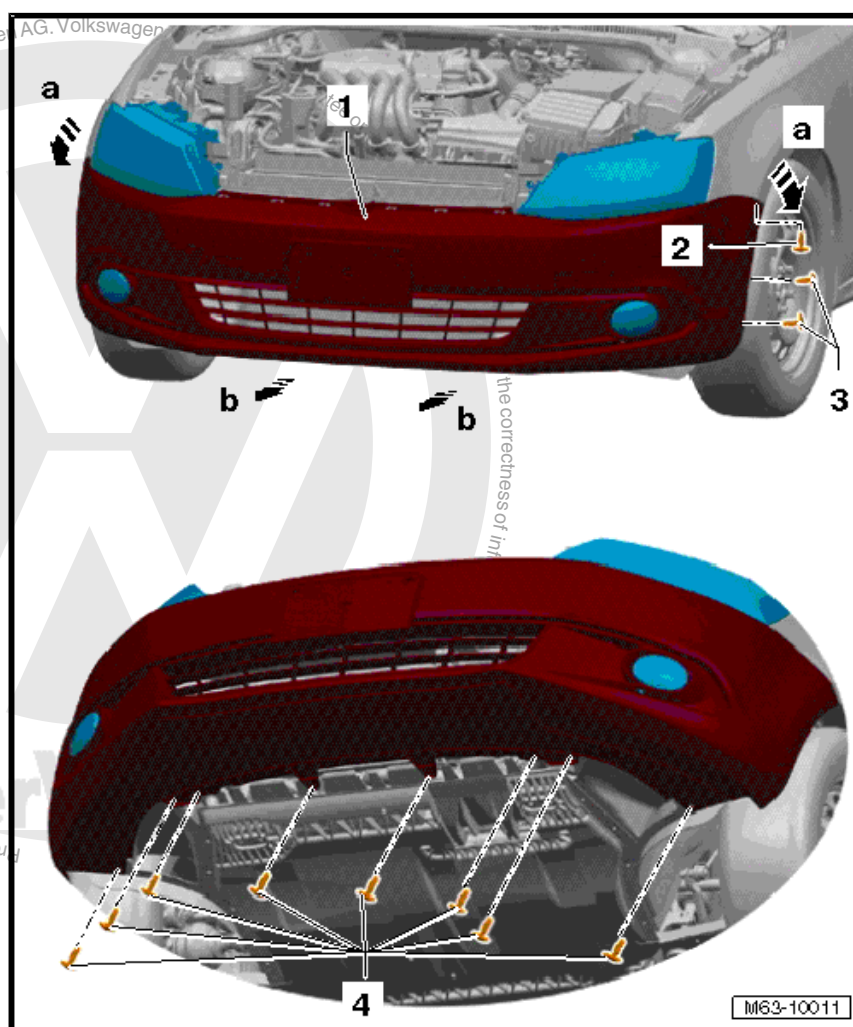
- Pull out front bumper cover -1- from fasteners of guides on left and right of wing -arrows a-.
- With the aid of a second mechanic, pull front bumper cover -1- parallel -arrows d- off vehicle.
- Remove connectors of all installed electrical components.

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

Notes and work instructions for the Park Assist system can be found in ⇒ Electrical system; Rep. gr. 94

- Disconnect washer fluid hose connectors (if there are any) ⇒ Electrical system; Rep. gr. 92 .

1.5.2 Installing



Carry out following work:

- Connect washer fluid hose connectors (if there are any) ⇒ Electrical system; Rep. gr. 92 .
- Connect connectors of all installed electrical components.
- Place front bumper cover -1- onto middle guide on lock carrier, keeping cover parallel to guide.



- Press front bumper cover -1- onto guides on left and right on wing until they engage with each other.
- Ensure joints are parallel and shut lines are equal ⇒ Body Repairs; Rep. gr. 00 ; Body gaps; Body, front .
- Fit bolts -2-, -3- and -4- in place and tighten them to the respective specified torque ⇒ [page 174](#) .
- Install radiator grille ⇒ [page 261](#) .

1.6 Front bumper cover add-on parts



Note

Minor differences may be encountered on add-on parts, depending on vehicle model.

1 - Front bumper cover

- ☐ Material PP/EPDM.
- ☐ Removing and installing ⇒ [page 175](#)

2 - Left trim panel

- ☐ Pull forwards out of detent.
- ☐ Different versions, assignment ⇒ Parts catalogue "ETKA"

3 - Centre air intake grille

- ☐ Only remove when bumper cover -1- is removed
- ☐ Different versions, assignment ⇒ Parts catalogue "ETKA"

4 - Trim strip

- ☐ For middle air grille -3-, depending on model version

5 - Spoiler

- ☐ Only remove when bumper cover -1- is removed

6 - Registration plate carrier

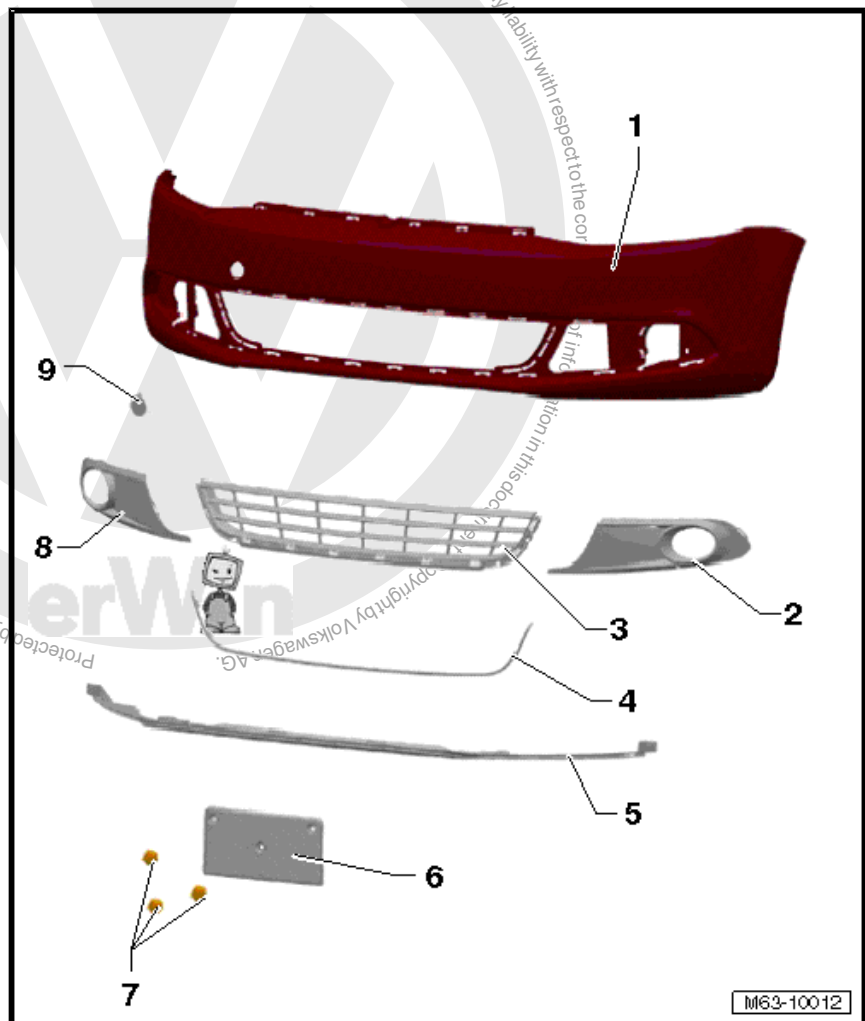
- ☐ Is not installed in all models or in all markets.
- ☐ Different versions, assignment ⇒ Parts catalogue "ETKA"

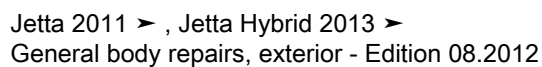
7 - Clip

- ☐ For securing the registration plate carrier -6-

8 - Right trim panel

- ☐ Pull forwards out of detent.
- ☐ Different versions, assignment ⇒ Parts catalogue "ETKA"

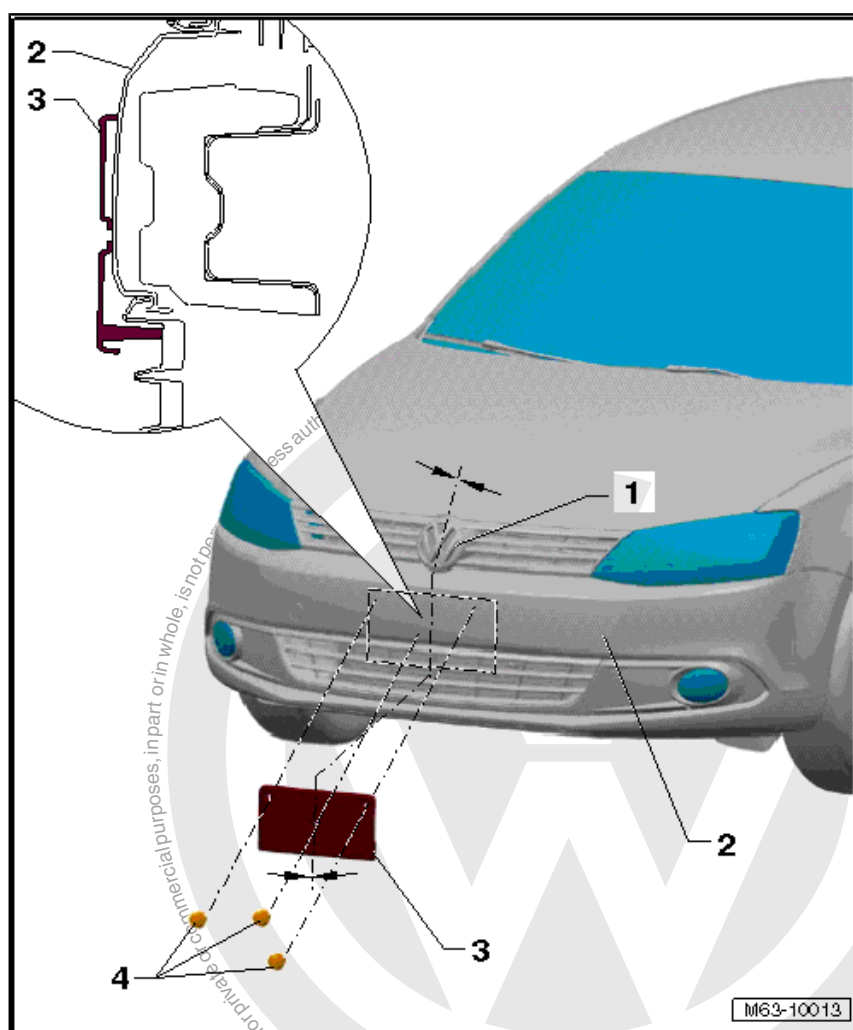




☐ For towing eye.

Note

- ◆ *Number plate carrier is not installed in all models or in all markets.*
- ◆ *Number plate carriers of different sizes are fitted in various markets.*
- ◆ *The height of the number plate carrier is specified by the contour to the bumper.*
- ◆ *Adherence to a depth of 12 mm is required when drilling holes.*



Holes exist

- Position number plate carrier -3- on front bumper cover -2- and press clips -4- in.



Holes do not exist

- Centre the number plate carrier -3- on front bumper cover -2- in relation to VW emblem -1-.
- Set drill depth stop to 12 mm and drill holes.
- Position number plate carrier -3- on front bumper cover -2- and press clips -4- in.

1.8 Assembly overview - guides for front bumper cover

1 - Centre guide

2 - Guide section at side

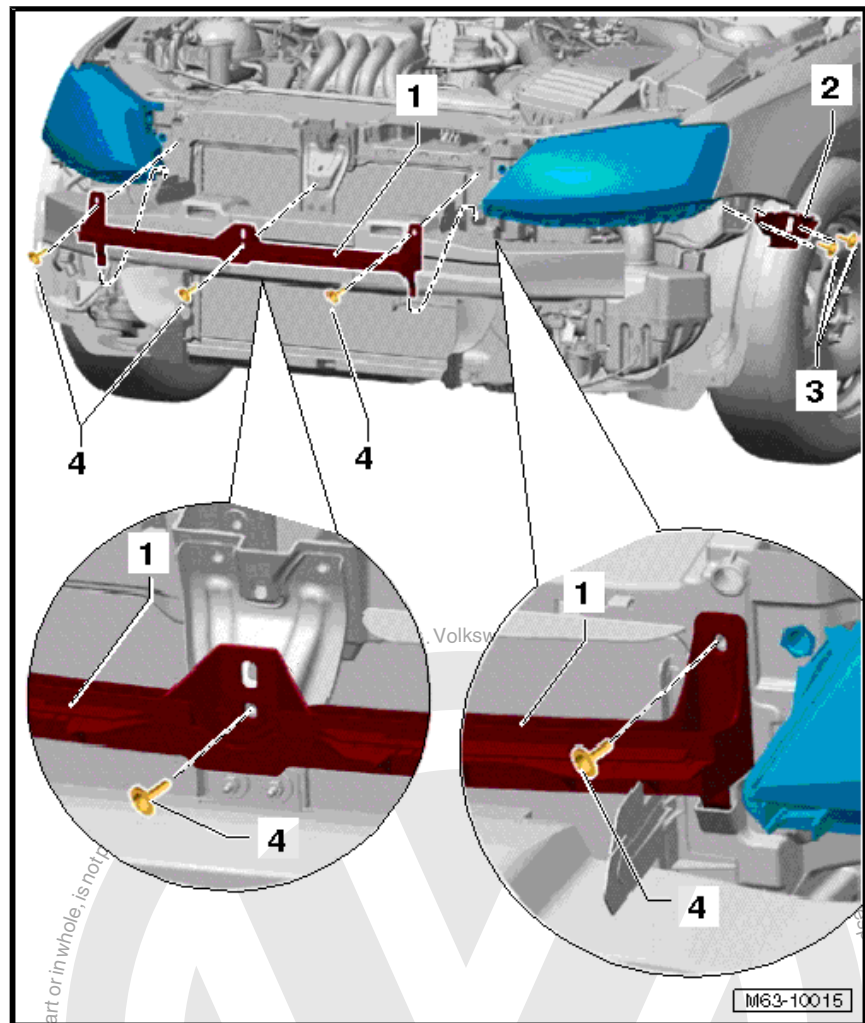
- ❑ Left and right.

3 - Bolt

- ❑ Qty. 2 on each side.
- ❑ Specified torque: 2 Nm

4 - Bolt

- ❑ Qty. 3.
- ❑ Specified torque: 8 Nm





1.9 Assembly overview - front bumper carrier

1 - Front bumper carrier

2 - Bolt

- ❑ Qty. 2 on each side.
- ❑ Specified torque: 8 Nm

3 - Foam element

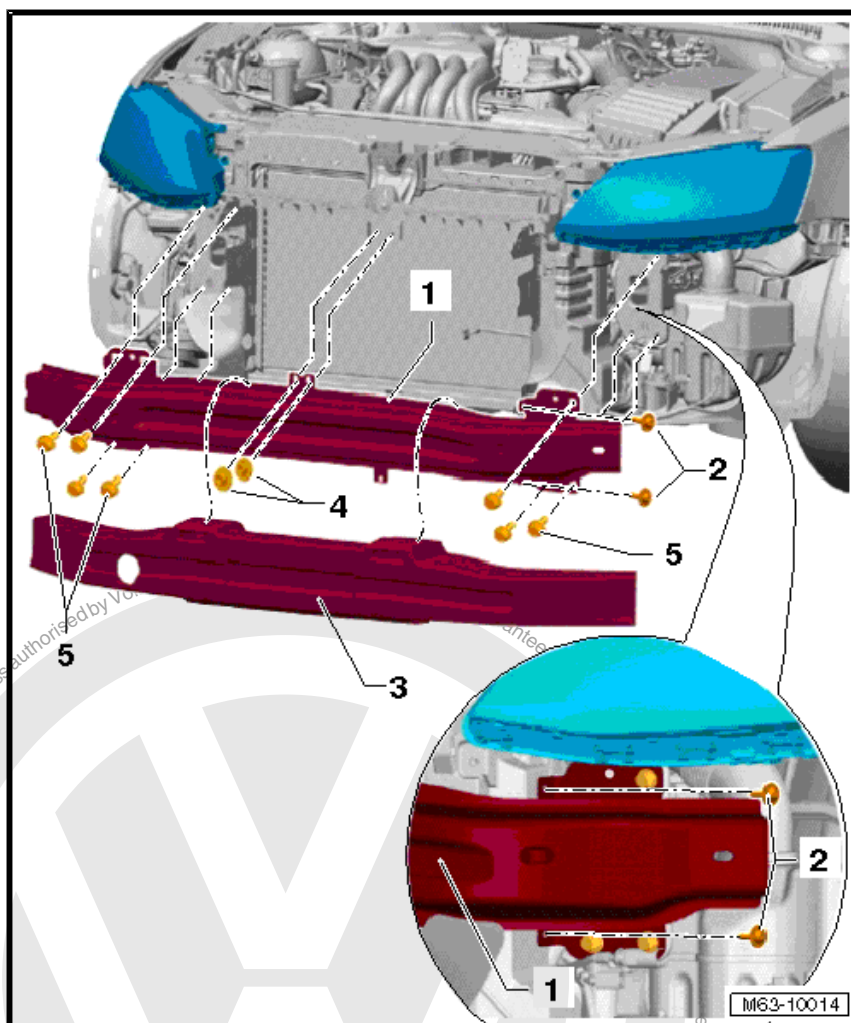
- ❑ Self-adhesive.
- ❑ Not installed in all model versions

4 - Nut

- ❑ Qty. 2.
- ❑ Specified torque: 8 Nm

5 - Bolt

- ❑ Qty. 3 on left-hand side
- ❑ Qty. 4 on right-hand side
- ❑ Specified torque: 60 Nm



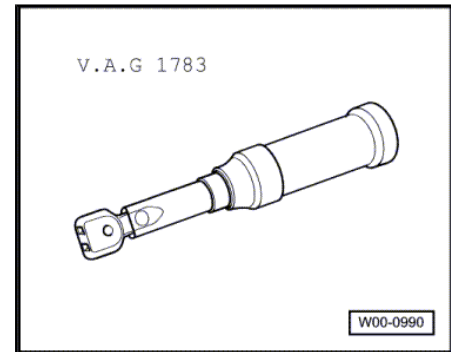


2 Rear bumper cover

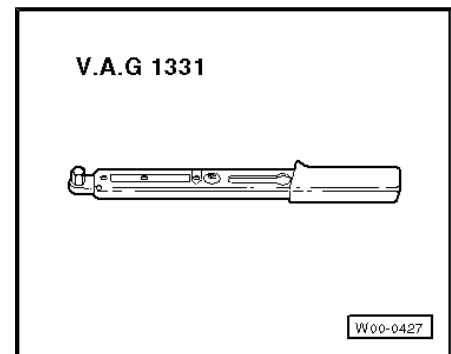
2.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-



- ◆ Torque wrench -V.A.G 1331-



2.2 Repairing rear bumper cover



Note

If rear 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

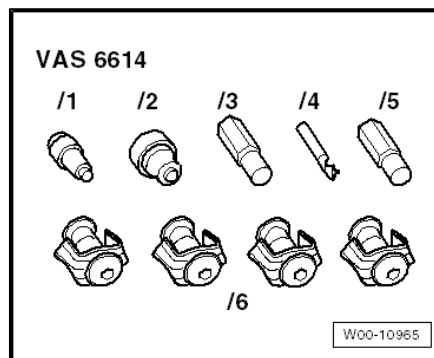
2.3 Installing brackets for parking aid system

2.3.1 Tools

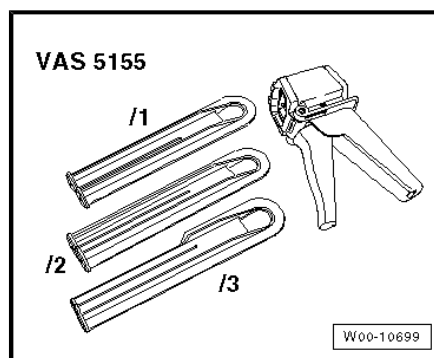
Special tools and workshop equipment required



- ◆ Installation tool for PDC bracket -VAS 6614-



- ◆ Cartridge gun -VAS 5155-



2.3.2 Materials

- ◆ 2-component plastic adhesive -D 180 K2 A1- ^{3) 4) 2}
- ◆ Bonding agent for plastics -D ^{3) 1} 822 150 A1-
- ◆ Cleaning solution -D 009 401 ^{3) 1} 04-
- ◆ Primer applicator

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

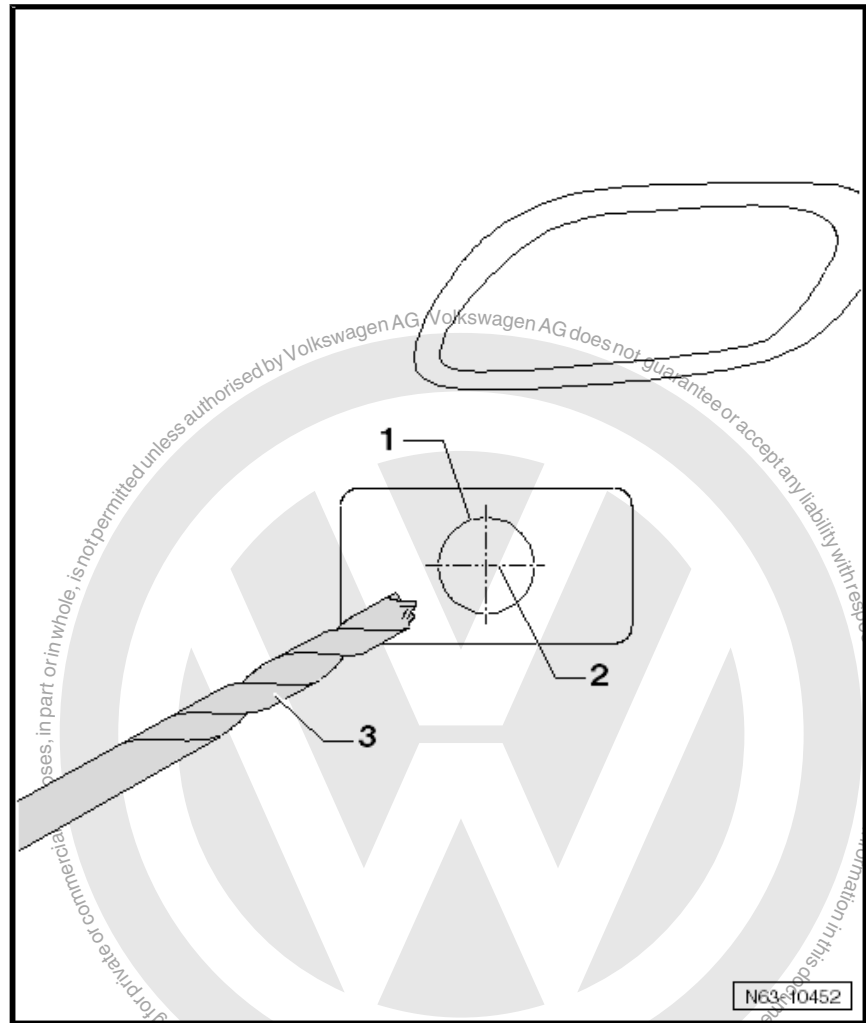
4) Observe minimum curing period ➔ [page 186](#).

2.3.3 Installing brackets



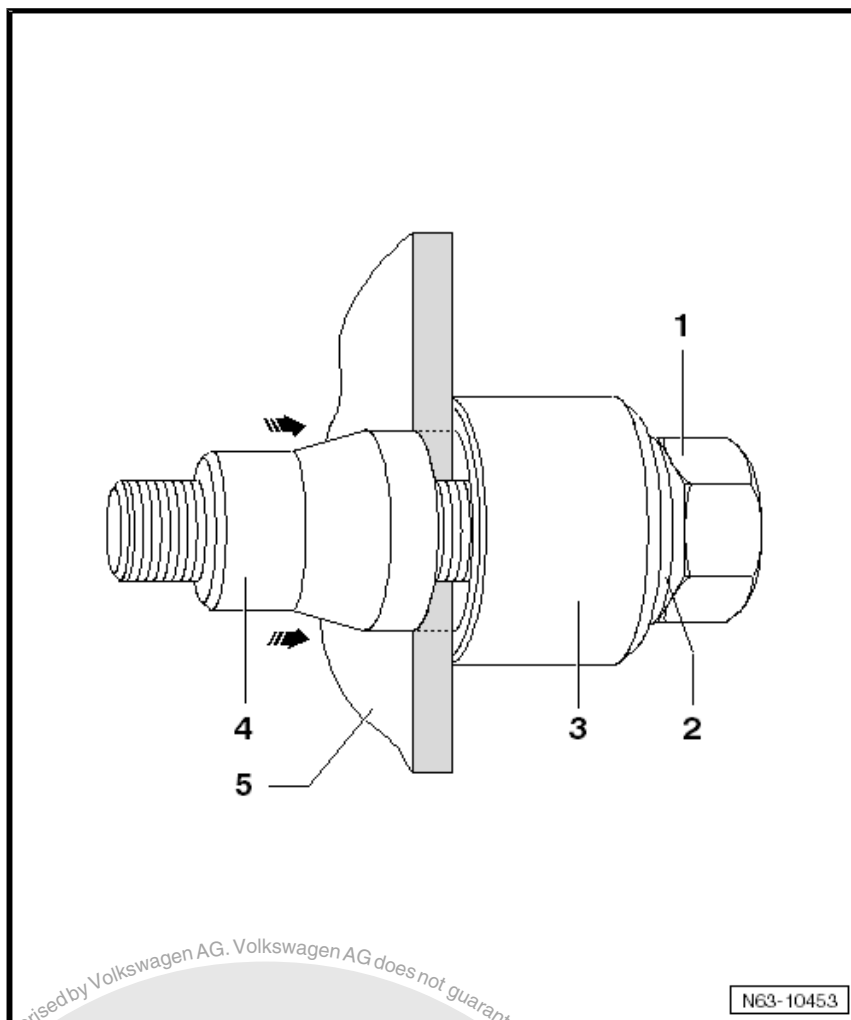
Note

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-.



- Fix the hole puncher in position with bolt head -1-, washer -2- and thrust bearing -3- from the inside of the 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

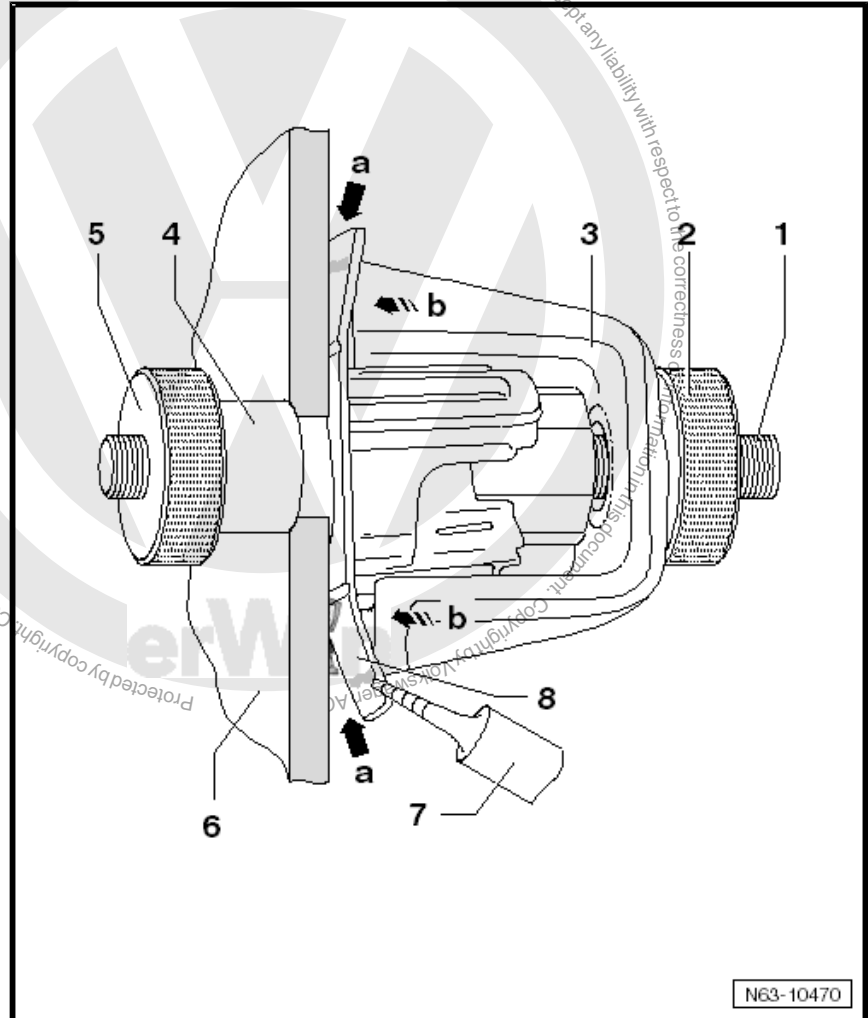
The punch -4- must not turn on the paint of the bumper cover.

- 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 bumper cover and bracket with cleaning solution.



Note

Approx. 1 cm of adhesive from tip should not be applied.



- Lightly sand inside of bumper cover -6- and clean thoroughly.
- Apply primer to bumper cover and bracket and allow to air for 10 minutes.
- Push bracket -8- onto centring pin -1- and through bumper cover -6-.
- Push counterhold -4- on and gently tighten knurled nut -5-.
- Push clip -3- on and then place knurled nut -2- in position but do not tighten it.
- All the brackets are prepared by this stage.



Note

The adhesive must not run into the angle.



- Apply adhesive as shown in illustration and tighten knurled nut -2-.
- Remove all centring pins after minimum curing period, minimum curing period ➔ [page 186](#)

2.3.4 Minimum curing period

Do not carry out any further work on bumper cover or brackets until the minimum curing period of 30 minutes has expired.

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

2.4 Assembly overview - rear bumper cover



Note

Depending on the vehicle model, minor differences may be encountered in the rear bumper cover.

1 - Centre guide

2 - Rear bumper cover

- ☐ Material PP/EPDM.
- ☐ Removing and installing ➔ [page 187](#)

3 - Bolt

- ☐ Qty. 1 on each side.
- ☐ Specified torque: 2.7 Nm

4 - Bolt

- ☐ Qty. 3.
- ☐ Specified torque: 2.7 Nm

5 - Bolt

- ☐ Qty. 1 on each side.
- ☐ Specified torque: 2.7 Nm

6 - Bolt

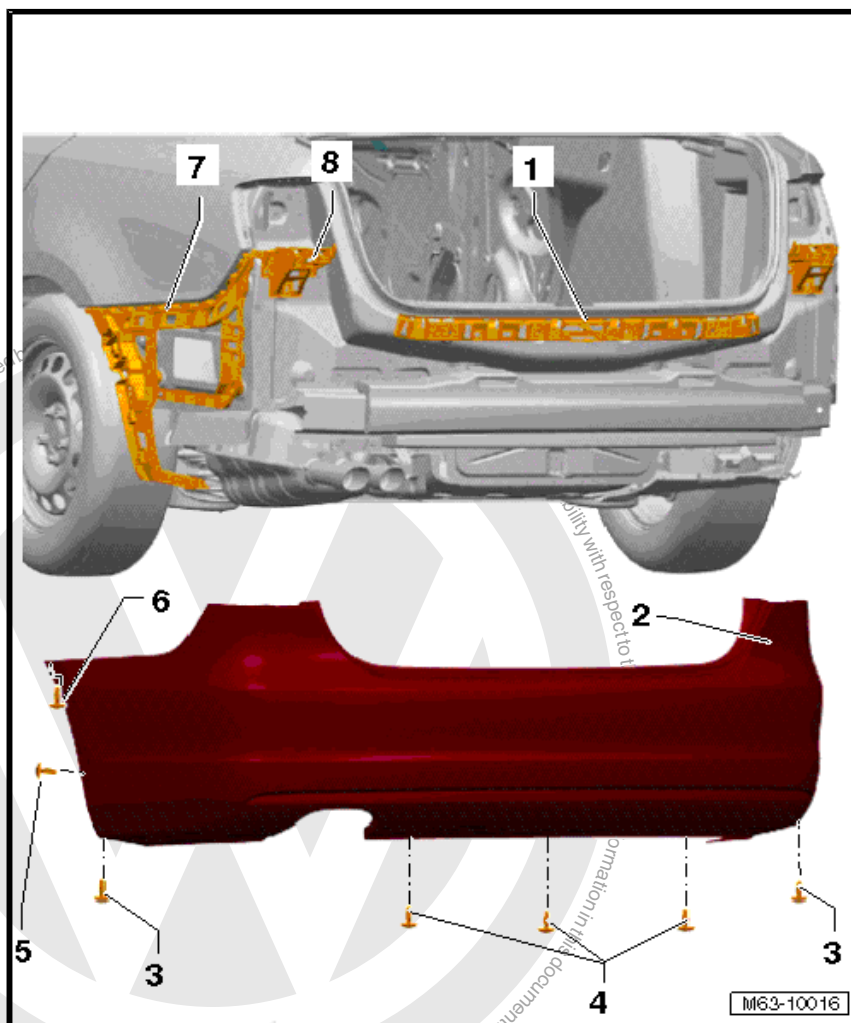
- ☐ Qty. 1 on each side.
- ☐ Specified torque: 2.7 Nm

7 - Guide section at side

- ☐ Left and right.

8 - Retaining bracket

- ☐ Left and right.





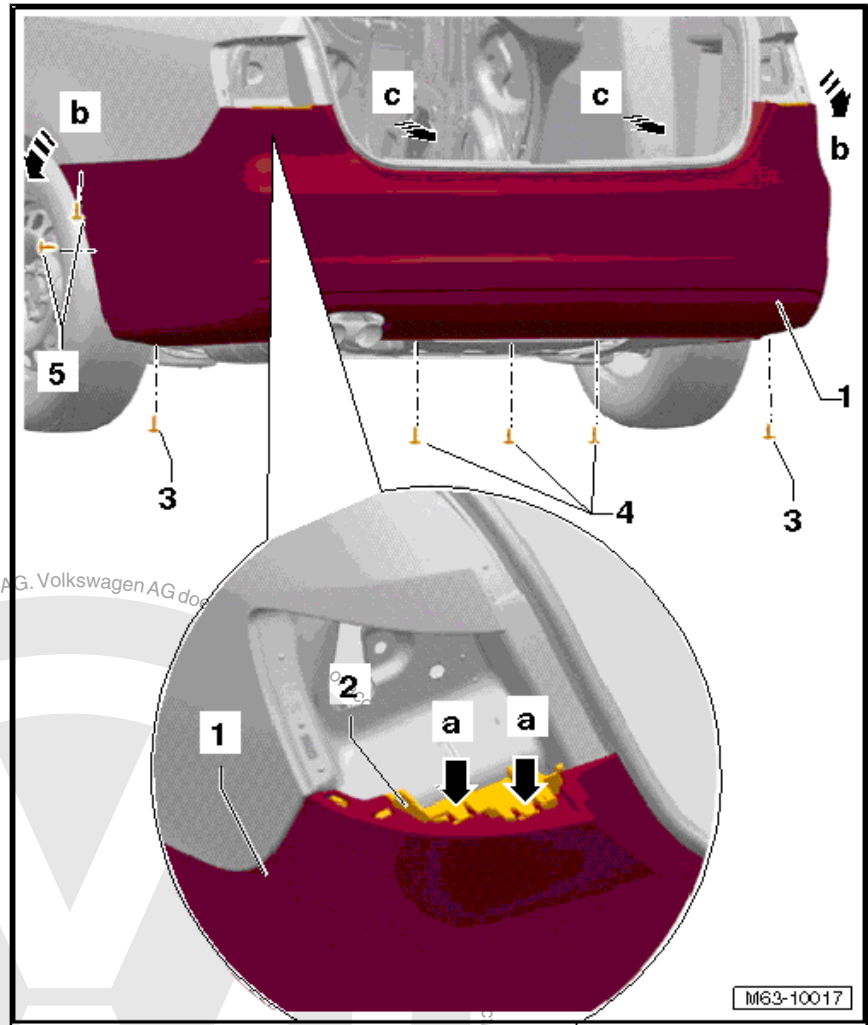
2.5 Removing and installing rear bumper cover



Note

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

2.5.1 Removing



Carry out following work:

- Remove tail lights in side panel ⇒ Electrical system; Rep. gr. 94 ; Tail lamps; Removing and installing tail lights in side panel.
- Loosen/release wheel housing liner in area of bumper cover ⇒ [page 240](#).
- Undo and remove bolts -5- in wheel housing on left and right.
- Remove bolts -3- and -4- from below.



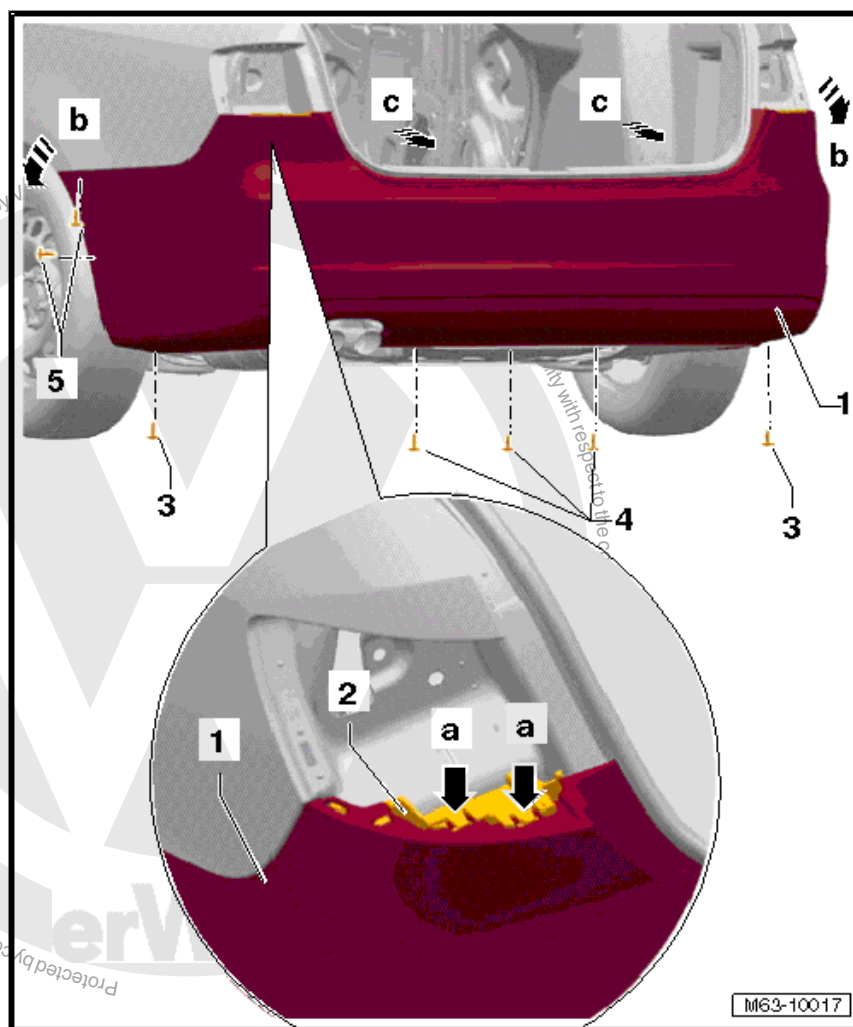
- If fitted, remove securing bolts of underbody panel at rear right on bumper cover.

Further dismantling requires the assistance of a second mechanic.

- Pull rear bumper cover -1- out of fasteners of guides on left and right of side panel -arrows b-.
- Release fasteners -arrows a- on retaining brackets -2- on left and right.
- With the aid of a second mechanic, pull rear bumper cover -1- parallel -arrows c- off vehicle.
- Remove connectors of all installed electrical components.

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

2.5.2 Installing



Carry out following work:

- Connect connectors of all installed electrical components.



- Place rear bumper cover -1- parallel onto guide on vehicle until rear bumper cover -1- engages retaining brackets -2- on left and right -arrows a-.
- Press rear bumper cover -1- onto guides on left and right on side panel until they engage with each other.
- Ensure joints are parallel and shut lines are equal ⇒ Body Repairs; Rep. gr. 00 ; Body gaps; Body, rear .
- Fit bolts -3-, -4- and -5- in place and tighten them to the respective specified torque ⇒ [page 186](#) .
- If available, screw in securing bolts of underbody panel at rear right on bumper cover and tighten to 2.7 Nm.
- Secure loosened/released wheel housing liner in area of bumper cover ⇒ [page 240](#) .
- Install tail lights in side panel ⇒ Electrical system; Rep. gr. 94 ; Tail lamps; Removing and installing tail lights in side panel .

2.6 Assembly overview - guides for rear bumper cover

1 - Centre guide

2 - Bolt

- ☐ Qty. 4.
- ☐ Specified torque: 4 Nm

3 - Bolt

- ☐ 2 or 3 bolts per side (depending on model variant)
- ☐ Specified torque: 4 Nm

4 - Bolt

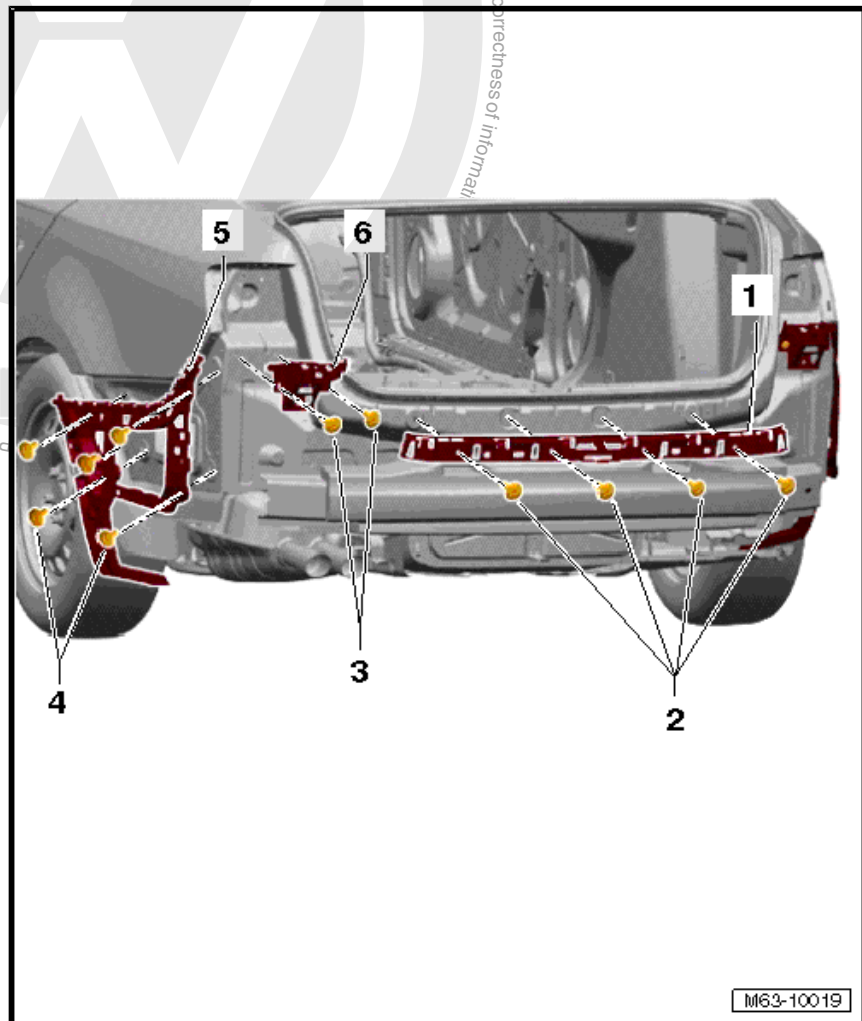
- ☐ Qty. 5 on each side.
- ☐ Specified torque: 4 Nm

5 - Guide section at side

- ☐ Left and right.

6 - Retaining bracket

- ☐ Left and right.





2.7 Assembly overview - rear bumper carrier

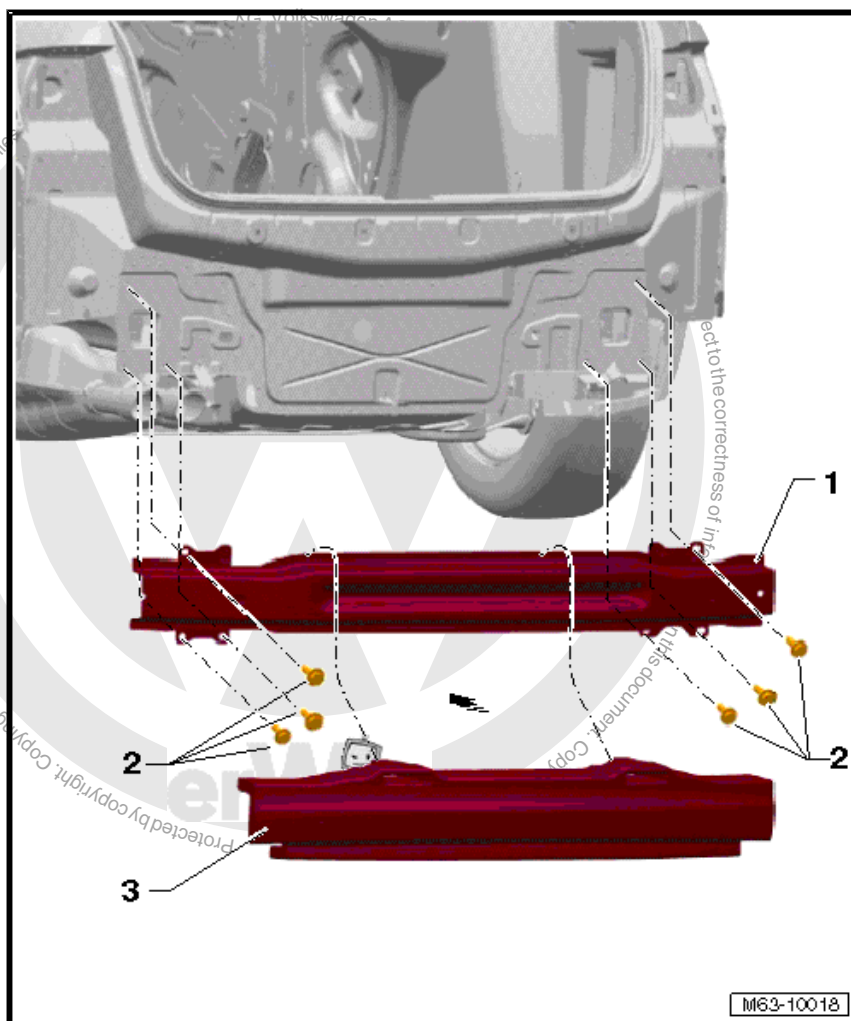
1 - Rear bumper carrier

2 - Bolt

- ☐ Qty. 3 on each side.
- ☐ Specified torque: 20 Nm

3 - Foam element

- ☐ Self-adhesive.
- ☐ Not installed in all model versions



2.8 Assembly overview - towing bracket



Note

- ◆ The specified torques refer only to factory-installed towing brackets.
- ◆ Request torque specifications for other towing brackets from relevant manufacturer.
- ◆ Information on electrics can be found in ⇒ Current flow diagrams, Electrical fault finding and Fitting locations.



1 - Towing bracket

- ☐ With detachable ball head
- ☐ Remove rear bumper cover ➤ [page 187](#) .

2 - Bolt

- ☐ Sealing plugs
- ☐ Qty. 1 on left
- ☐ 1 or 2 bolts on right (depending on model variant)
- ☐ Specified torque: 20 Nm



WARNING

The bolts -2- function as plugs and prevent exhaust gases from entering the interior.

The bolts must therefore always be installed without fail.

3 - Bolt

- ☐ Qty. 2 on each side.
- ☐ Specified torque: 50 Nm + turn 120° further

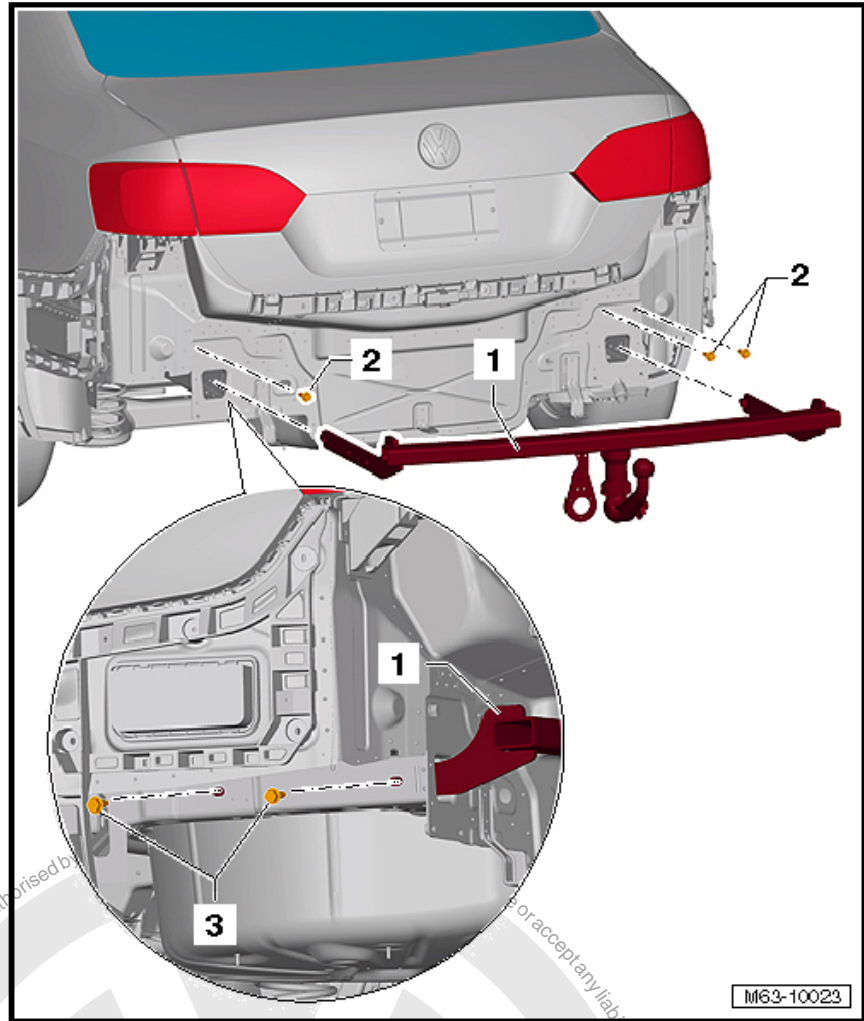


Note



WARNING

Bolts -3- must always be renewed after being removed.





64 – Glazing

1 Flush bonded windows

1.1 Tools

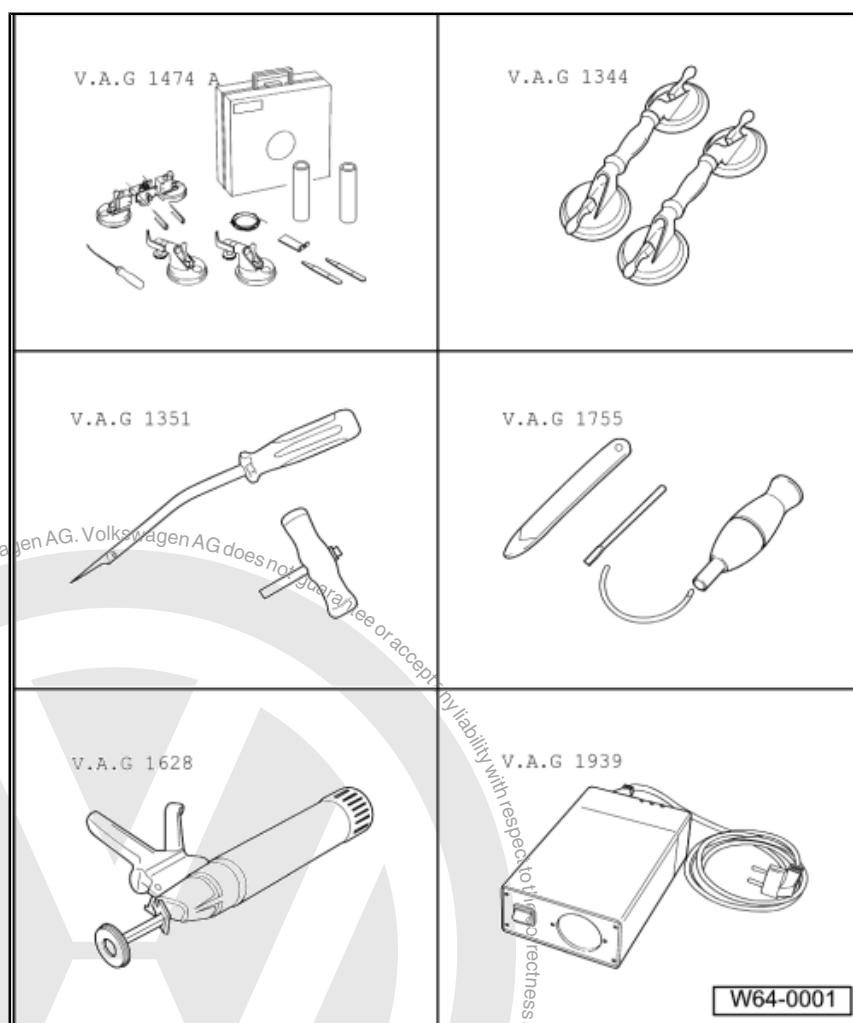


Note

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.

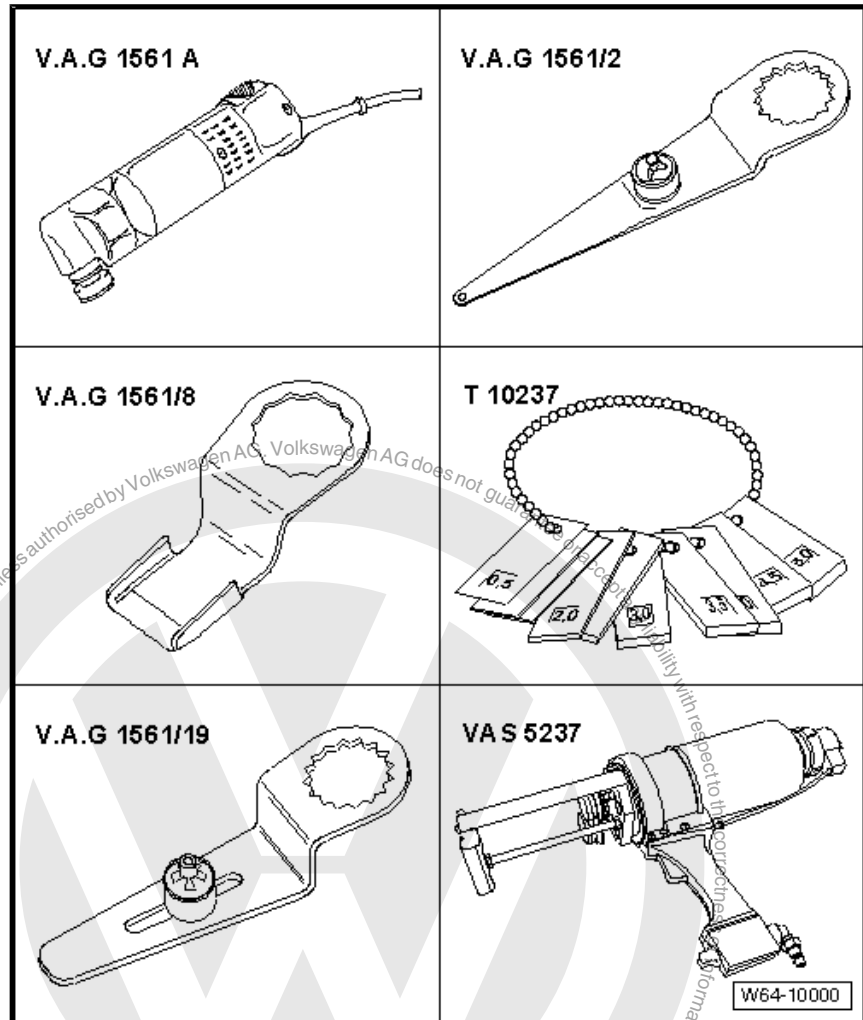
Special tools and workshop equipment required

- ◆ 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-
- ◆ Assembly tool set -T10237-
- ◆ Cutting blade - V.A.G 1561/19-
- ◆ Double cartridge gun - VAS 5237-



1.2 Materials

- ◆ 2K glass adhesive DA 004 600 A2 ^{1 2 3)}
- ◆ 1K glass adhesive DH 009 100 A2 ^{1) 2) 4) 5)}
- ◆ Activator D 181 801 A1 ¹⁾
- ◆ Glass primer/paint primer D 009 200 02 ¹⁾
- ◆ Cleaning solution D 009 401 04 ¹⁾
- ◆ Primer applicator D 009 500 25 ¹⁾
- ◆ Adhesive remover D 002 000 10 ¹⁾
- ◆ Cutting cord 357 853 999 A

1) Observe instructions for use on the information sheet provided by the manufacturer.

2) Observe minimum curing period ➔ [page 203](#) .

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.

1.3 Repairing windscreen

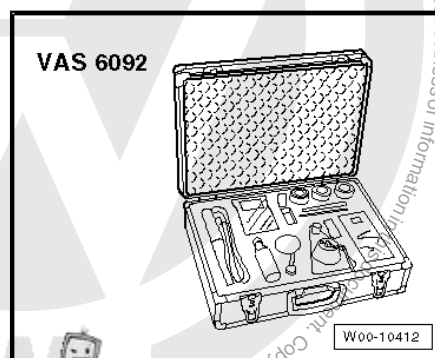


Note

- ♦ *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-





1.4 Assembly overview - windscreen

1 - Windscreen

- ☐ Removing ⇒ [page 195](#)
- ☐ Installing ⇒ [page 197](#) .

2 - PUR adhesive sealant

- ☐ Cross section of bead:
-width b- = 7.5 mm,
-height a- = 12 mm (in-
cluding precoat, re-
sidual material on win-
dow glass and window
flange).
- ☐ Minimum curing period
⇒ [page 203](#) .

3 - Body flange

- ☐ Touch up paintwork
damage ⇒ [page 203](#) .

4 - Gap

- ☐ Must be uniform on left
and right

5 - Gap

- ☐ Must be uniform

6 - Windscreen adjuster

- ☐ 443 845 631 A

7 - Windscreen seal

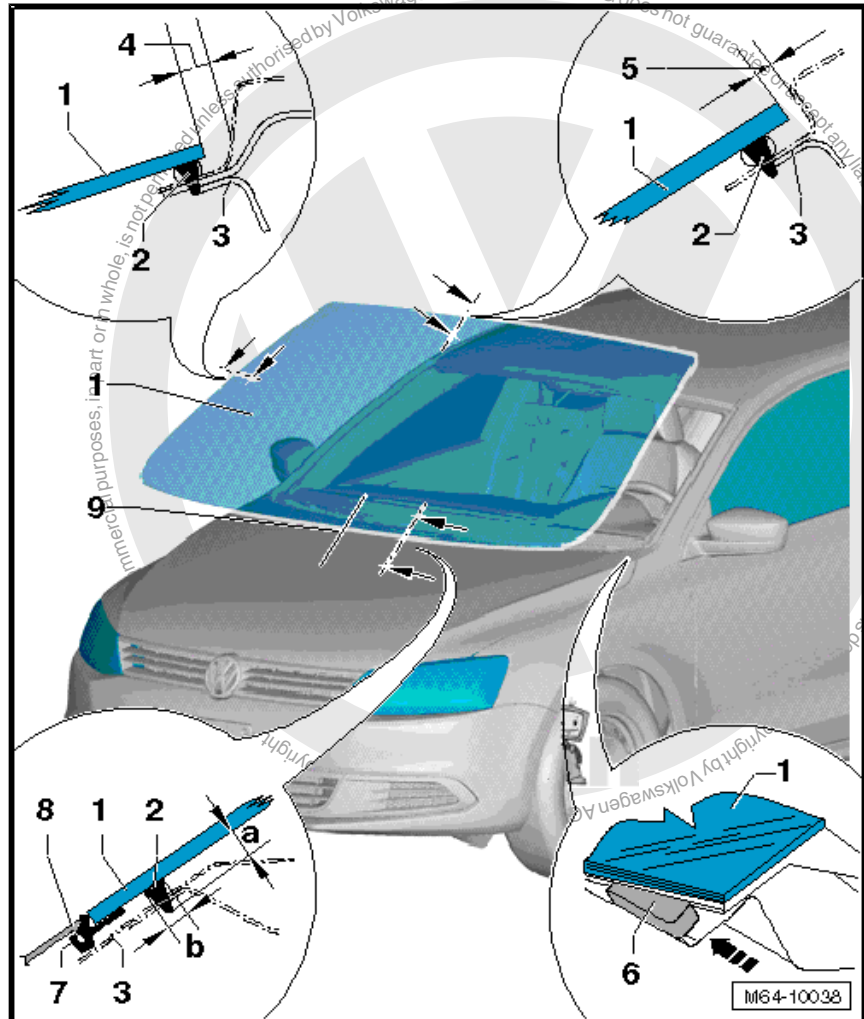
- ☐ Is part of windscreen.

8 - Plenum chamber cover

- ☐ Must be removed from
windscreen seal by
hand only.
- ☐ Removing and installing
⇒ [page 17](#)

9 - Adhesive bead butt end

- ☐ The butt end of the adhesive bead should be located here.



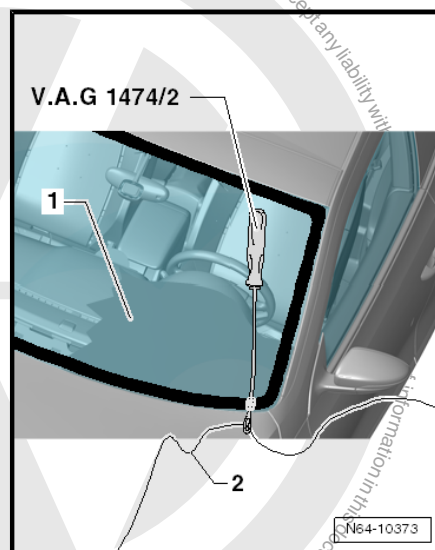
1.5 Removing windscreen

Carry out following work:

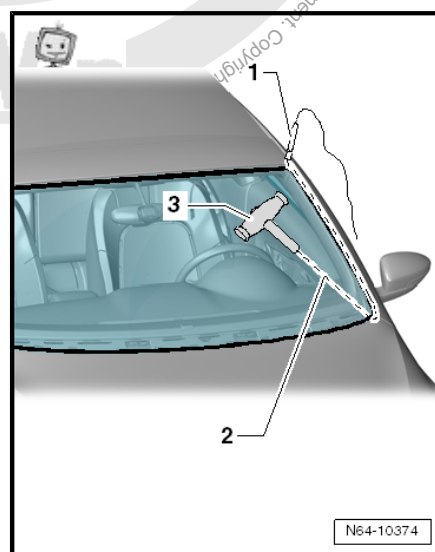
- Remove A-pillar upper trims on left and right ⇒ General body repairs, interior; Rep. gr. 70 ; Pillars and side panel trims; Removing A-pillar trim .
- Removing left and right sun visors ⇒ General body repairs, interior; Rep. gr. 68 ; Compartments, covers and trims; Removing and installing sun visor .
- Remove interior mirror ⇒ General body repairs, interior; Rep. gr. 68 ; Interior mirror
- Remove moulded headliner in area of windscreen ⇒ General body repairs, interior; Rep. gr. 70 ; Roof trim .
- Moulded headliner can now be lowered sufficiently to allow windscreen to be cut out without damage occurring to moulded headliner.



- If featured, remove water channel ➔ [page 274](#) .
- Removing plenum chamber cover ➔ [page 17](#) .
- Slide protective backing -V.A.G 1474/8- -1- between front windscreen and dash panel.
- Pull cutting cord -2- through adhesive sealing material into inside of vehicle using awl -V.A.G 1474/2- .

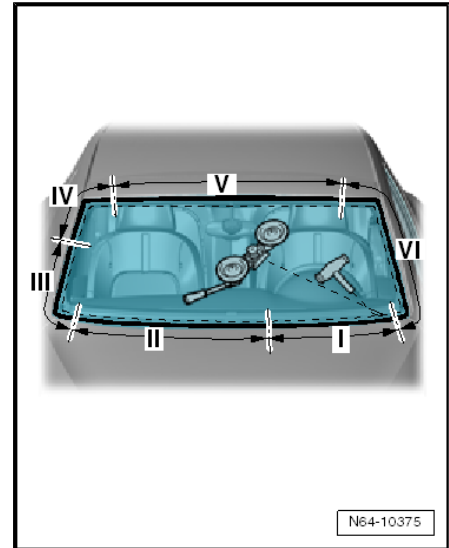


- Secure inside end of cutting cord against falling out using Pull toggle -V.A.G 1351/1- -3-.
- Insert cutting cord -2- into window flange using tube -1-.
- Place cutting cord around the front windscreen.
- Ensure that cutting cord lies under front windscreen in corners.





- Secure other end of cord to reel device -V.A.G 1654 A- .
- Apply the reel device -V.A.G 1654 A- to "position I".
- Turn reel device -V.A.G 1654 A- accordingly and cut wind-screen free.
- Use plastic wedge to press cutting cord against windscreen while cutting in order to have clearance at window flange and dash panel.



1.6 Installing windscreen

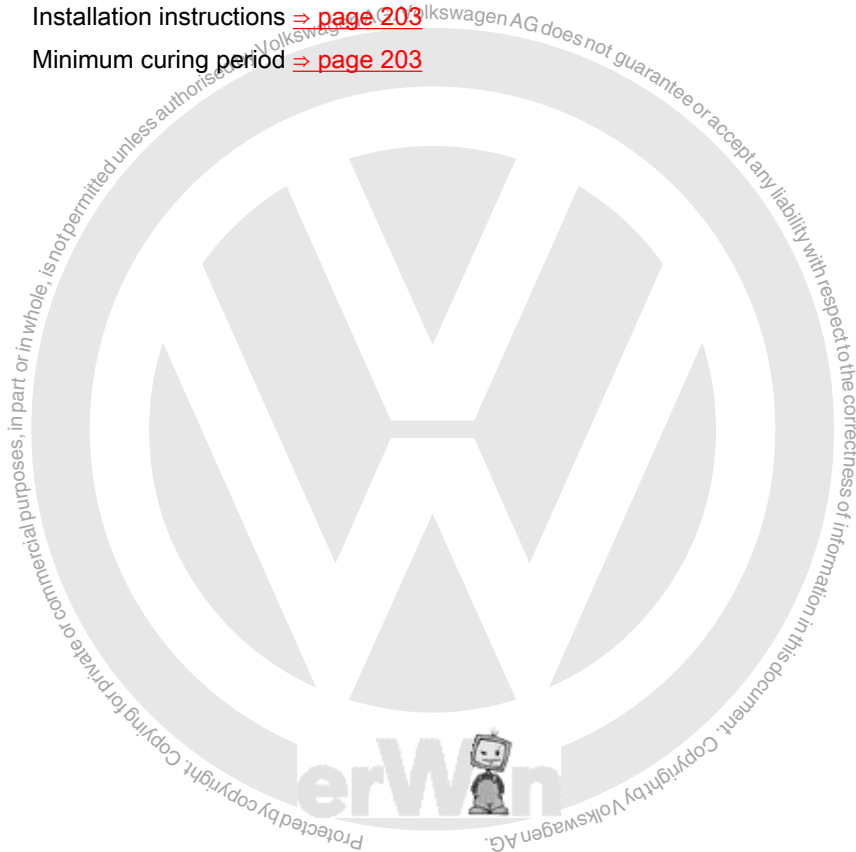
Preparing old undamaged window for glazing ⇒ [page 201](#)

Preparing new window for glazing ⇒ [page 201](#) .

Preparing body flange for glazing ⇒ [page 202](#)

Installation instructions ⇒ [page 203](#)

Minimum curing period ⇒ [page 203](#)





1.7 Assembly overview - rear window

1 - Rear window

- ❑ Removing ⇒ [page 198](#)
- ❑ Installing ⇒ [page 200](#) .

2 - PUR adhesive sealant

- ❑ Cross section of bead:
-width b = 6.5 mm,
-height a = 10 mm (in-
cluding precoat, re-
sidual material on win-
dow glass and window
flange).
- ❑ Minimum curing period
⇒ [page 203](#) .

3 - Body flange

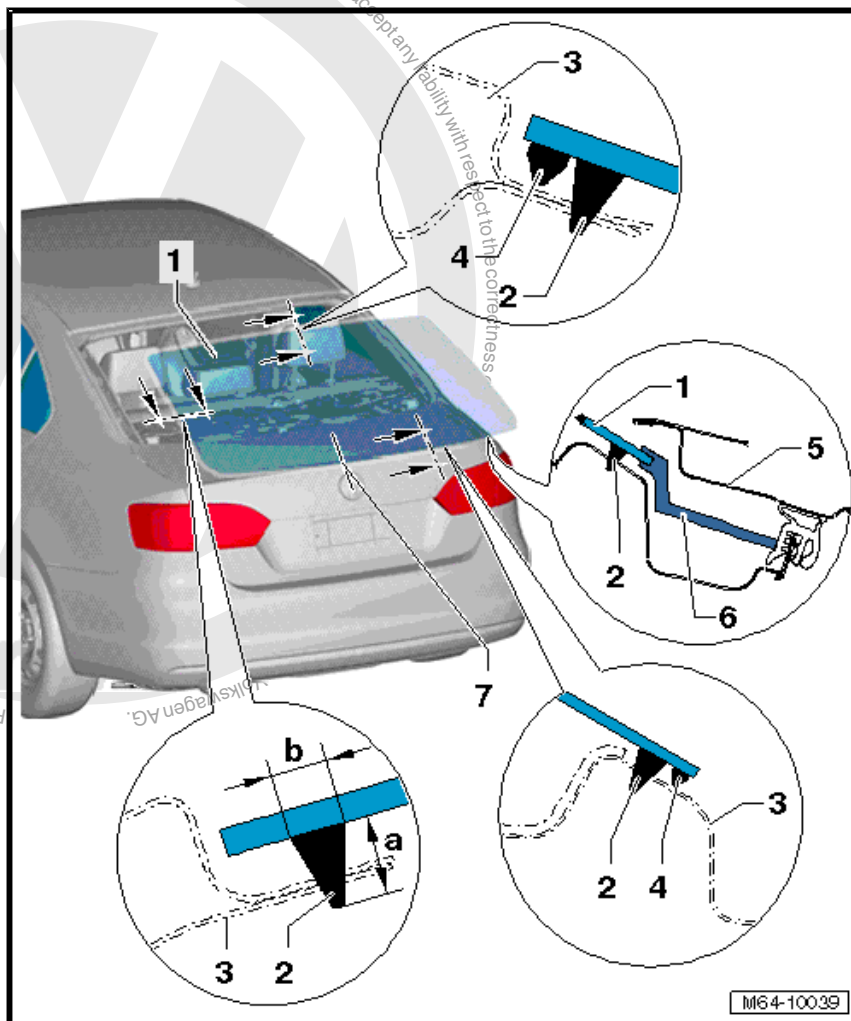
4 - Spacer

5 - Rear lid

6 - Windscreen adjuster

7 - Adhesive bead butt end

- ❑ The butt end of the ad-
hesive bead should be
located here.



1.8 Removing undamaged rear window

Carry out following work:

- Remove C-pillar upper trims on left and right ⇒ General body repairs, interior; Rep. gr. 70 ; Pillars and side panel trims; Removing C-pillar trim .
- Remove rear shelf ⇒ General body repairs, interior; Rep. gr. 70 ; Pillar and side panel trims .
- Remove moulded headliner in area of rear window ⇒ General body repairs, interior; Rep. gr. 70 ; Roof trims .



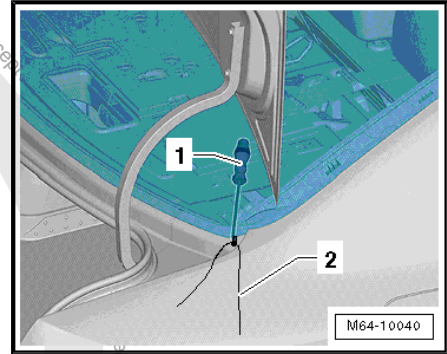
Note

If it is intended to re-use the windscreen, make sure that the windscreen heating electrical connections are not damaged.

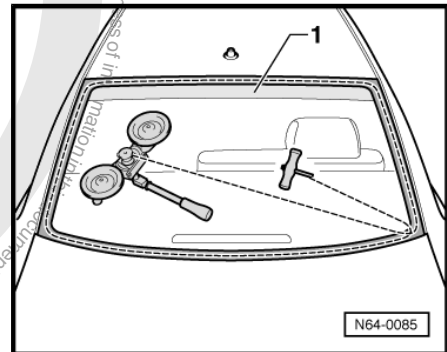
- Pull off connectors for rear window heating and window aerial.



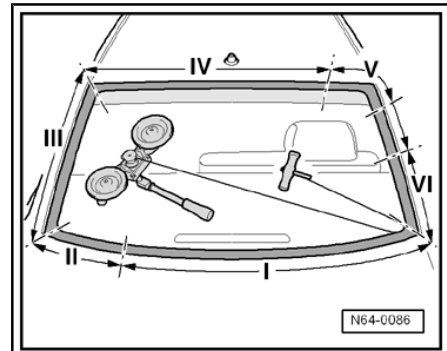
- Pull cutting cord -2- through adhesive sealing material to inside using awl -V.A.G 1474/2- -1-.



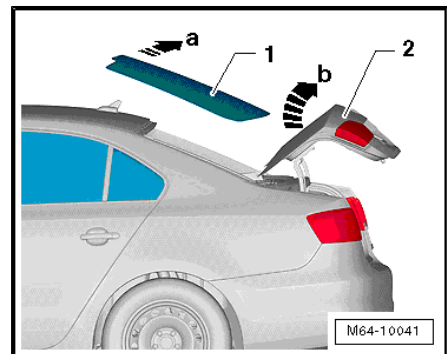
- Secure end of cutting cord using pull handle -V.A.G 1351/1- to prevent it from falling out.
- Lay cutting cord around rear window and guide second end of cord inwards.
- Attach end of cutting cord to reel device -V.A.G 1654 A- .
- Carefully insert protective backing -V.A.G 1474/8- -1- between rear window and moulded headliner.



- Place reel device -V.A.G 1654 A- in indicated position.
- Operate reel device -V.A.G 1654 A- accordingly and cut rear window free.
- Use wedge -V.A.G 1474/5- to press cutting cord against rear window glass while cutting in order to have clearance at window flange.



- In order to remove rear window that has been cut out -1-, open rear lid -2- approx. 45°.
- Lift rear window -1- upwards off body flange -arrow a- and swing out under rear lid -arrow b-.



1.9 Removing broken rear window

Carry out following work:

- 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.

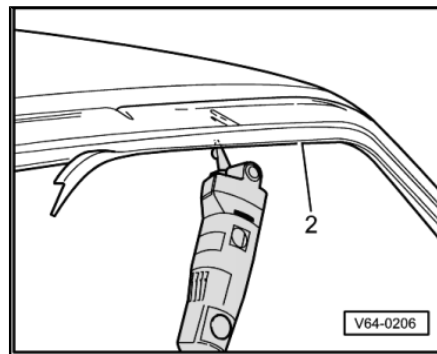


- Cover flange -2- all round with textile-reinforced adhesive tape.
- Cut through adhesive seal (with glass remains) in window cut-out using electric cutter -V.A.G 1561 A- and u-shaped blade - V.A.G 1561- .



WARNING

Always wear safety goggles and leather gloves.



1.10 Installing rear window

Carry out following work:

Preparing old undamaged window for glazing ⇒ [page 201](#)

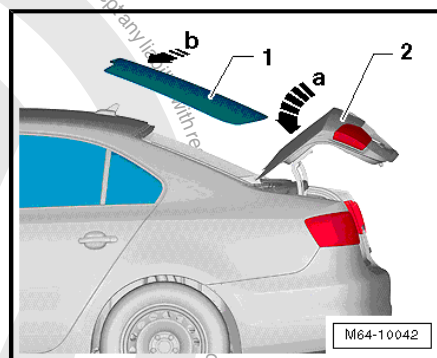
Preparing new window for glazing ⇒ [page 201](#) .

Preparing body flange for glazing ⇒ [page 202](#)

- Once all the preparations for rear window glazing -1- have been completed, open rear lid -2- approx. 45°.
- Firstly, guide rear window -1- under rear lid -2- -arrow a-.
- Then, place rear window -1- in mounting position on body flange -arrow b-.

Installation instructions ⇒ [page 203](#)

Minimum curing period ⇒ [page 203](#)





1.11 Preparing old undamaged window for glazing

1.11.1 Cutting back adhesive bead

Carry out following work:



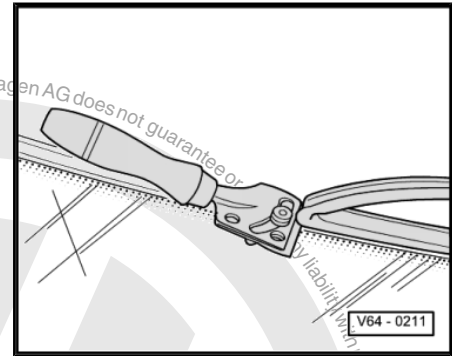
Note

- ◆ 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

Do not prime bonding surface and do not treat with a cleaning solution. Keep bonding surface free of dirt and grease.



Exception: if bonding is not performed immediately after cutting back, the remaining residual material must be activated with activator -D 181 801 A1- .

1.12 Preparing new window without precoat- ing for glazing

Carry out following work:

No replacement windows are precoated.



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.
- 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.

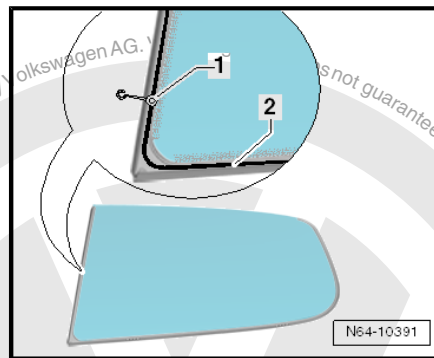


WARNING

Ceramic coating on window is not glass/paint primer! It must be primed before application of adhesive sealing compound! Use only glass/paint primer D 009 200 02!



- Then use applicator -D 009 500 25- -1- to apply glass and paint primer -2- evenly in one stroke.
- ♦ Drying time approx. 10 minutes



1.13 Preparing body flange for glazing

Carry out following work:

- Cut back remaining material on body flange with U-shaped blade -V.A.G 1561/3- , but do not remove completely.



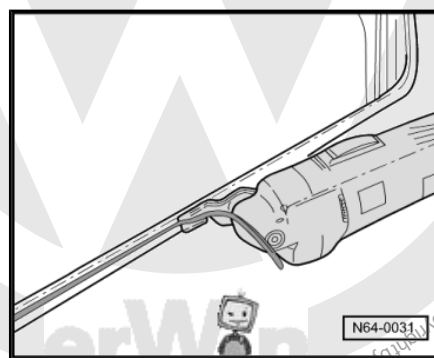
Note

Remaining material serves as adhesion base for newly applied adhesive sealing compound. Keep bonding surfaces free of dirt and grease.



WARNING

Activator must not have contact with paint or the paintwork will be damaged.



Exception: if bonding is not performed immediately after cutting back, the remaining residual material must be activated with activator -D 181 801 A1- .

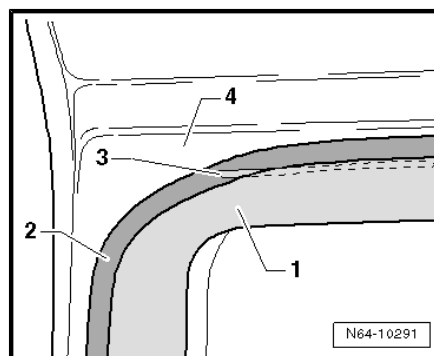
- ♦ If the window flange has been repaired or partially renewed, the area concerned must be cleaned and primed again after painting.



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-.





1.14 Installation instructions

Carry out following work:

- Apply adhesive sealing material in continuous bead, holding applicator at right angle to window.

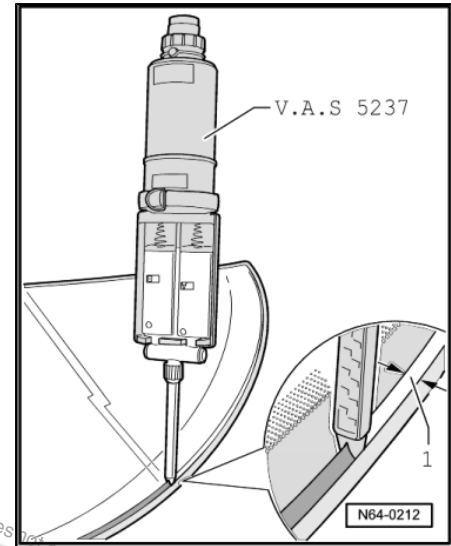


WARNING

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) if there were any.



1.15 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.

The minimum curing period for the 2K glass adhesive DA 004 600 A2 and the 1K glass adhesive DH 009 100 A2 is 3 hours for all windows.

Minimum curing period is the time from bonding the window until vehicle may be used. During this time, the vehicle must stand on a level surface at room temperature (at least 15 °C).



WARNING

Vehicle is safe to use only after the curing period is completed.

1.16 Touching up paint damage

If paintwork is damaged, paint structure must be restored according to specifications in "Paint" workshop manual!

1.17 Cleaning off excess adhesive sealing material

Carry out following work:

- 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 residual excess with adhesive remover -D 002 000. 10- .
- Cleaning plastic trim: allow adhesive sealant to cure (approx. one hour) and then peel off.



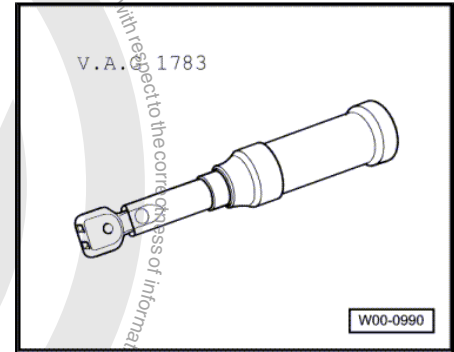


2 Front door window

2.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-





2.2 Assembly overview - front door window



Note

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

1 - Retaining clip

2 - Door window

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

3 - Front door

4 - Window regulator

- ❑ Removing and installing
⇒ [page 214](#)

5 - Nut

- ❑ Qty. 4.
- ❑ Specified torque: 8 Nm

6 - Window regulator motor

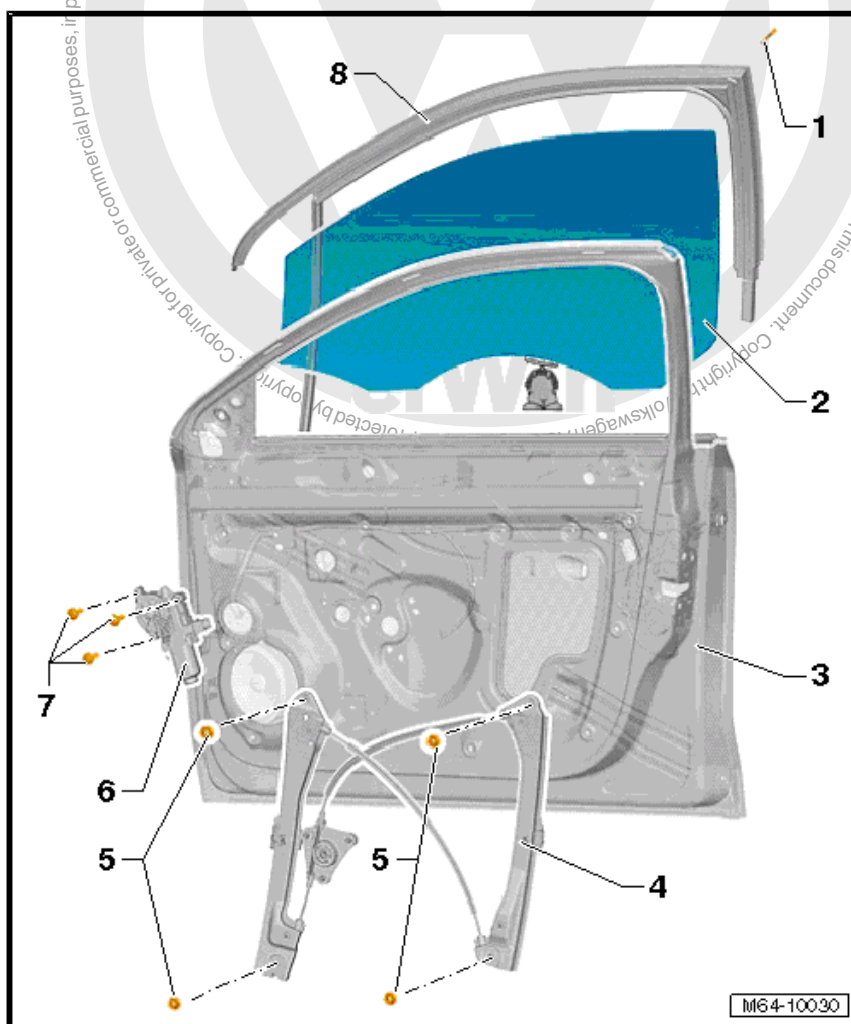
- ❑ Removing and installing
⇒ [page 212](#)

7 - Bolt

- ❑ Qty. 3.
- ❑ Specified torque: 4 Nm

8 - Window channel

- ❑ Removing and installing
⇒ [page 217](#)

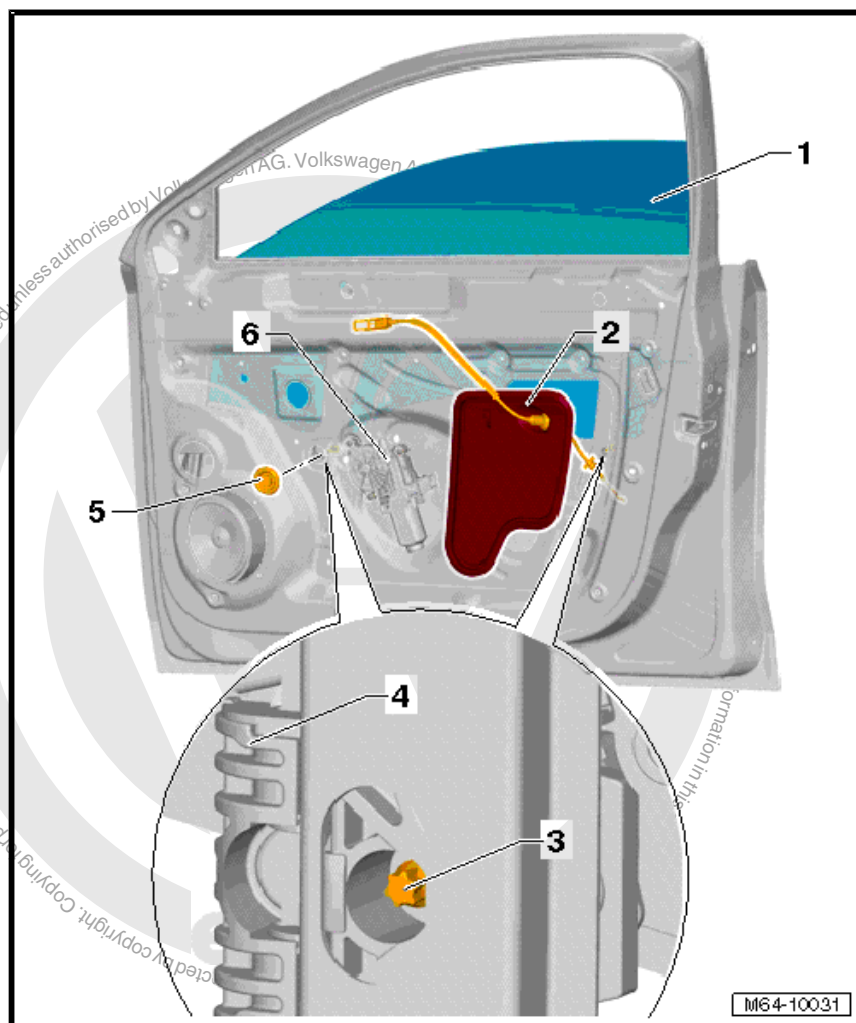


2.3 Removing and installing door window



Note

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

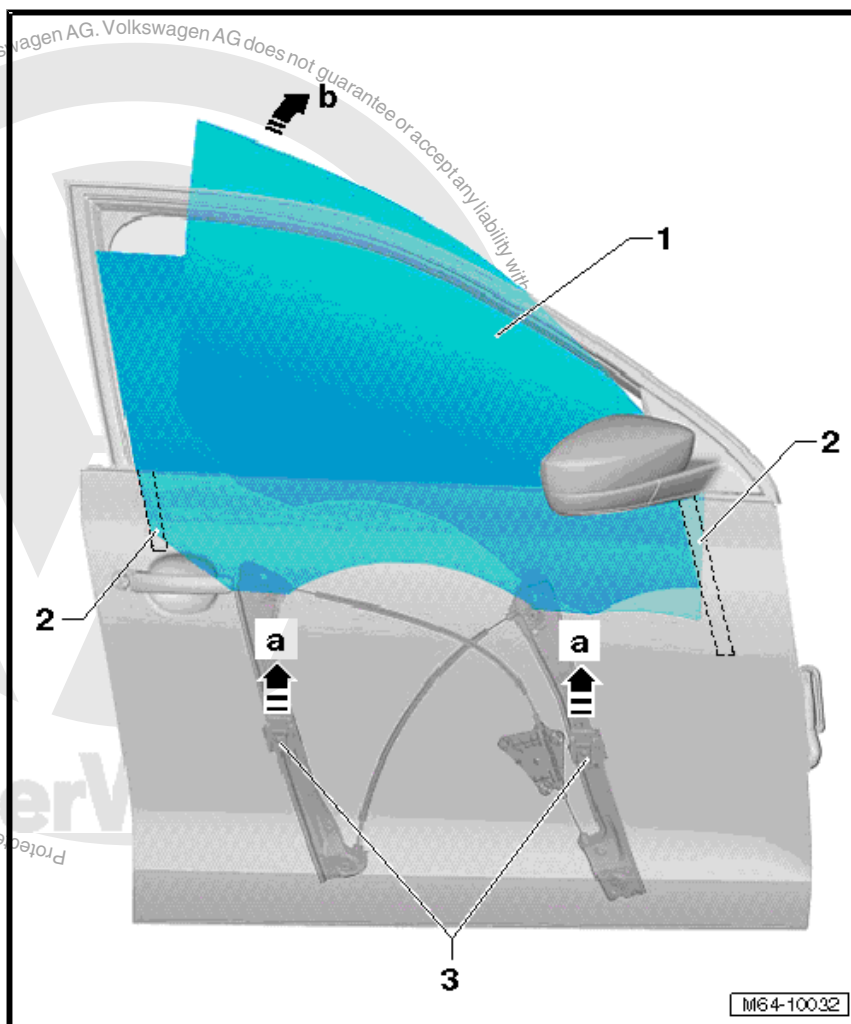




Caution

Loosening clamping bolt -3- by turning it clockwise.

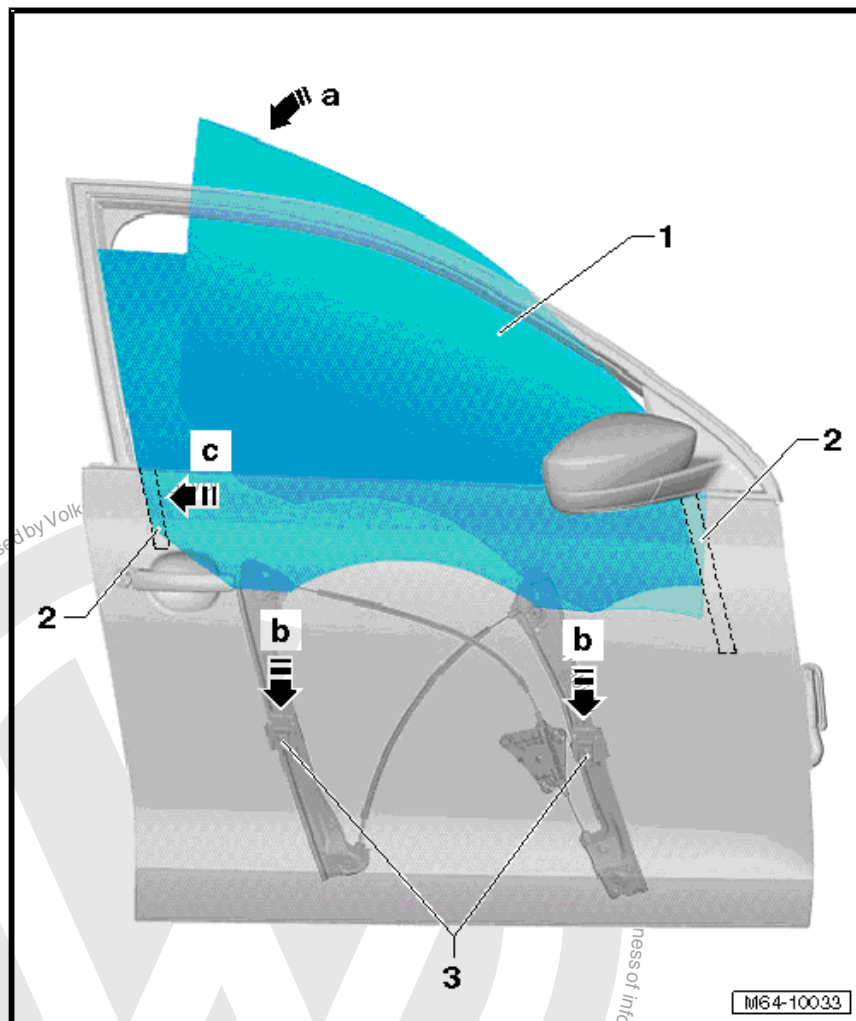
- Loosen clamping bolt -3- by turning it clockwise (do not remove) and press clamping jaws -4- apart.



- Lift door window -1- upwards out of clamping jaws -3- -arrows a-.
- Lift door window -1- from behind and swing forwards out of window channels -2- -arrow b-.



2.3.2 Installing



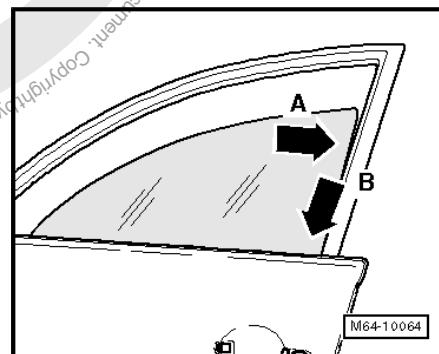
Carry out following work:

- Insert door window -1- into window channels -2- -arrow a-.
- Insert door window into B-pillar window channel -arrow A- and push into clamping brackets as far as it will go -arrow B-.



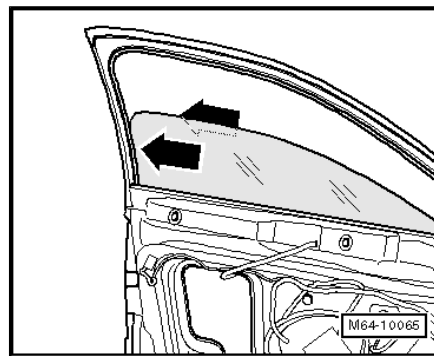
Note

Ensure that door window is properly located in window channel -arrow A-.





- Using both hands, push door window into B-pillar window channel as far as it would go -arrow-.

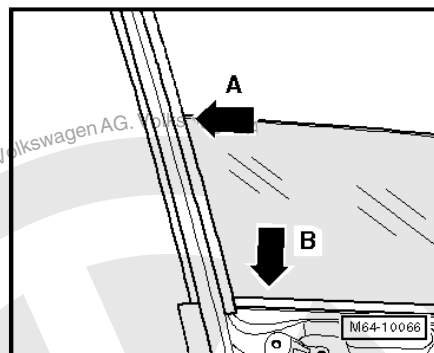


- Using both hands, push door window downwards -arrow B-.

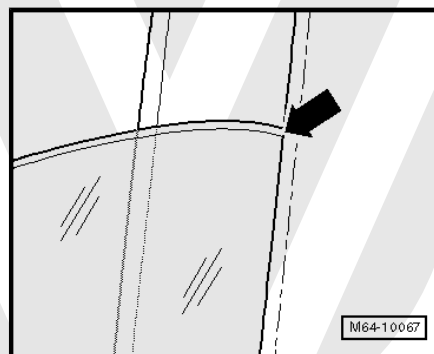


Note

Ensure that door window is always pushed into B-pillar window channel -arrow A- for this.



- Check visually that door window is seated correctly in B-pillar window channel -arrow-.

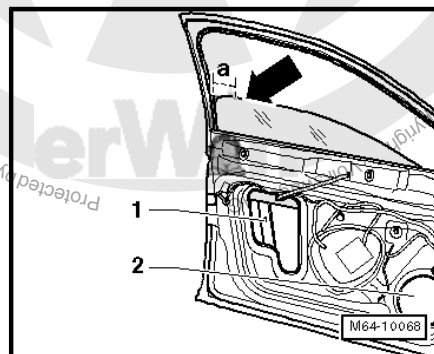


- Tighten clamping bolt -1- (rear clamping bolt) by turning it anti-clockwise, specified torque 8 Nm.



Note

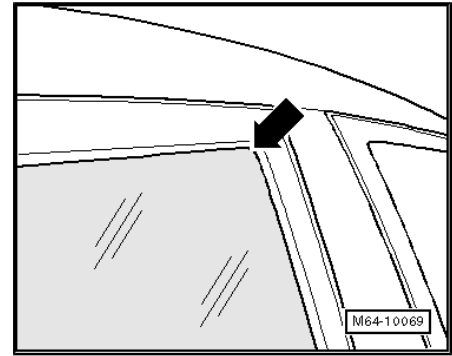
- ◆ Always push door window downwards by hand -arrow- when tightening
- ◆ Keep dimension -a- = 12 cm, to B-pillar free when pushing down.
- Tighten clamping bolt -2- (front clamping bolt) by turning it anti-clockwise, specified torque 8 Nm.



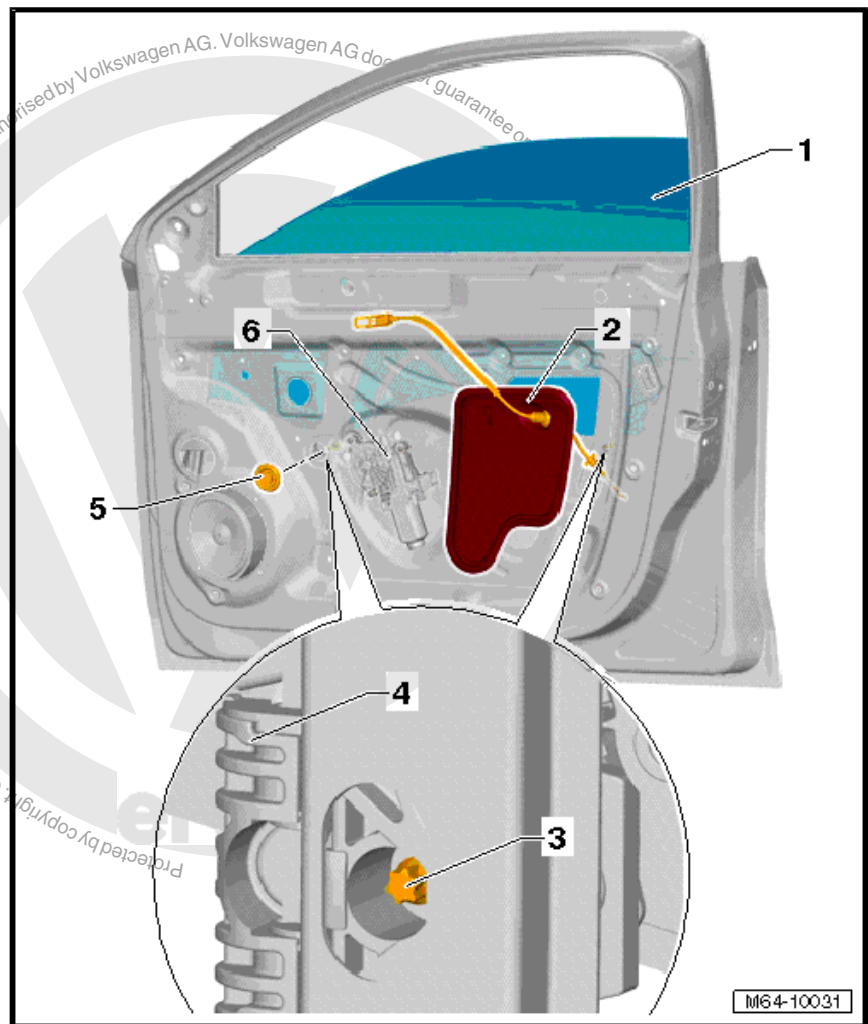


Note

*The door window will seat correctly in the window channel
-arrow- if this procedure is carried out correctly.*



- Before the cover cap -5-, the cover -2- and the door trim are installed, carry out a functional test.





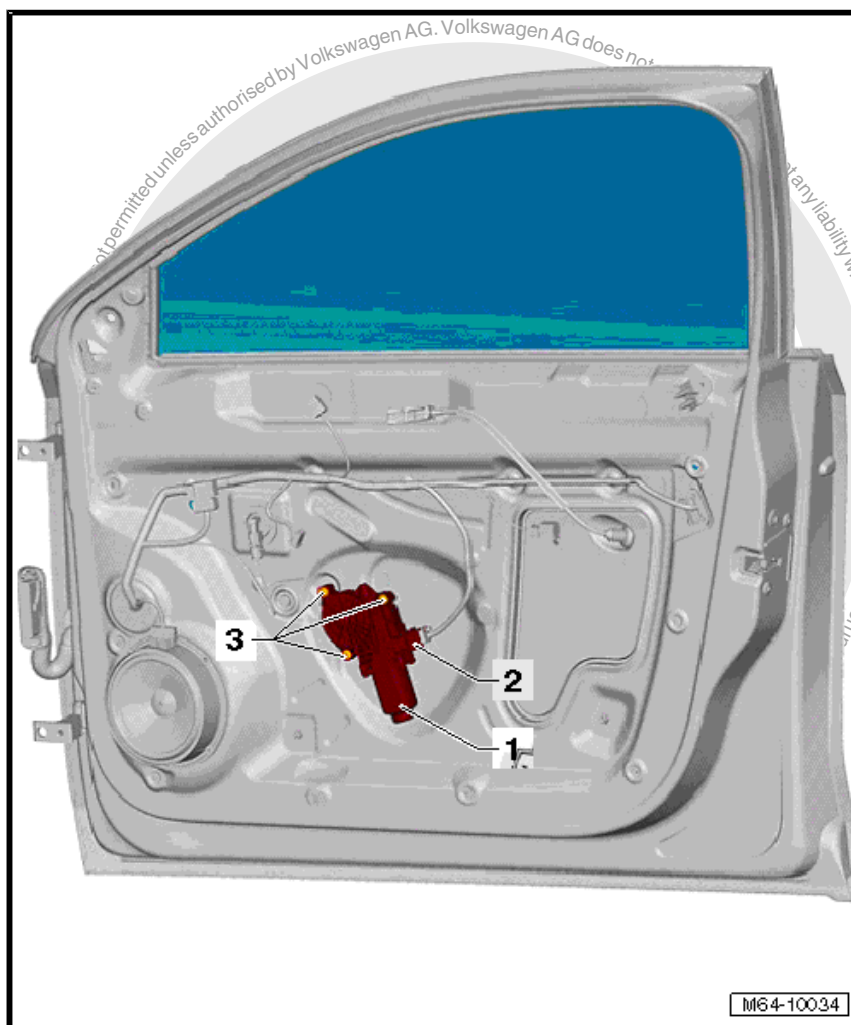
2.4 Removing and installing window regulator motor



Note

The removal and installation sequence is only for the right window regulator motor. The removal and installation of the left window regulator motor is similar.

2.4.1 Removing



Carry out following work:

- Removing front door trim ⇒ General body repairs, interior;
Rep. gr. 70 ; Door trim .
- Secure door window against sliding down with adhesive tape.



Caution

- ◆ **Switch off ignition and all electrical consumers.**
- ◆ **Remove ignition key.**

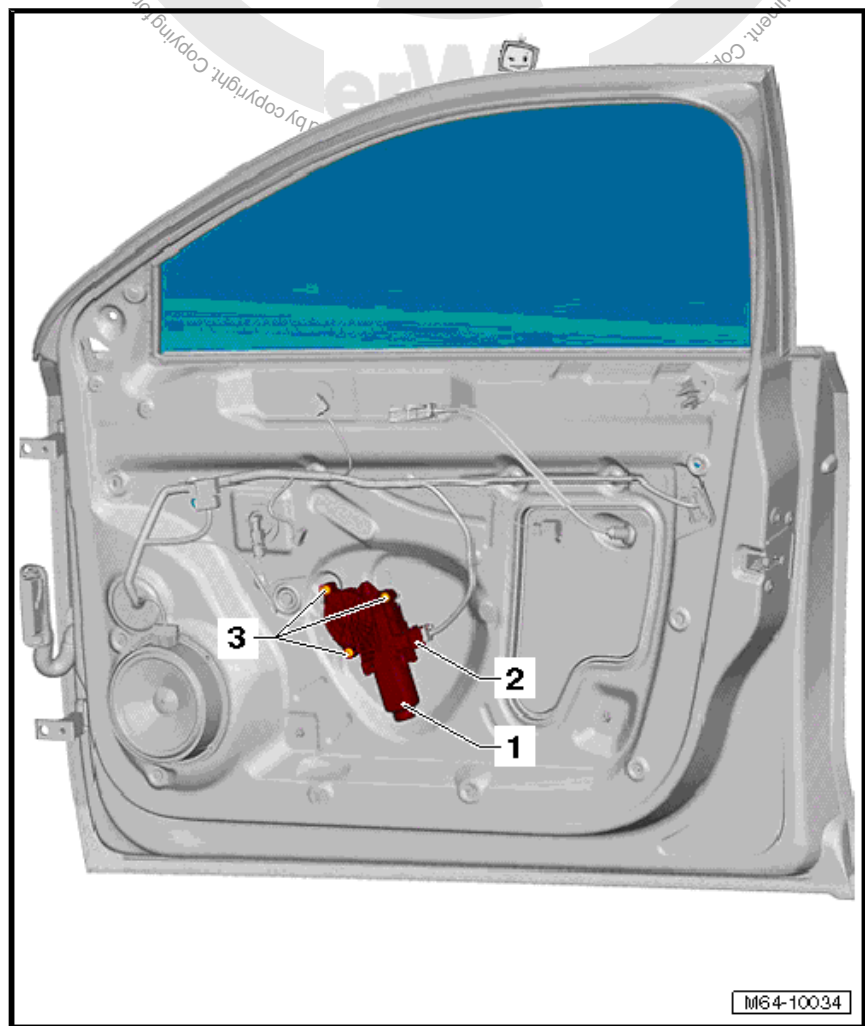
- Disconnect connector -2-.
- Remove the three screws -3-.
- Remove window regulator motor together with control unit -1- from mounting brackets.

2.4.2 Installing



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!





Carry out following work:

- Position window regulator motor -1- on mounting brackets of cable drum. Move door window up and down slightly so that the splines between window regulator motor and cable drum engage more easily.

- Screw in the three screws -3-.

Specified torque for bolts -3-: 4 Nm.

- Connect connector -2-.



WARNING

Before installing door trim, check that the holes in the door panel are sealed with respective stickers ⇒ [page 114](#).

- A new window regulator motor must be coded using the vehicle diagnosis, testing and information system -VAS 5051B- .
- The work procedure and notes on the automatic window raising and lowering system as well as on the excess-force limitation feature can be found in ⇒ Maintenance ; Booklet .

Further installation is performed in the reverse order of removal.

2.5 Removing and installing window regulator

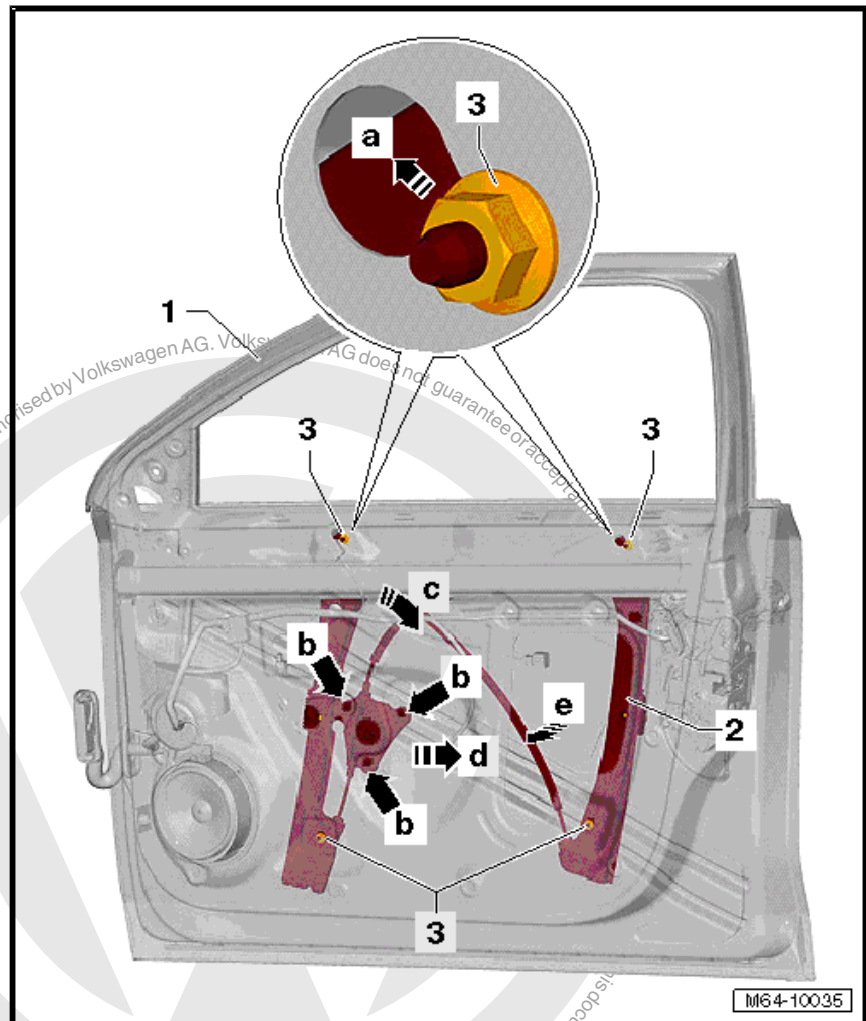


Note

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



2.5.1 Removing

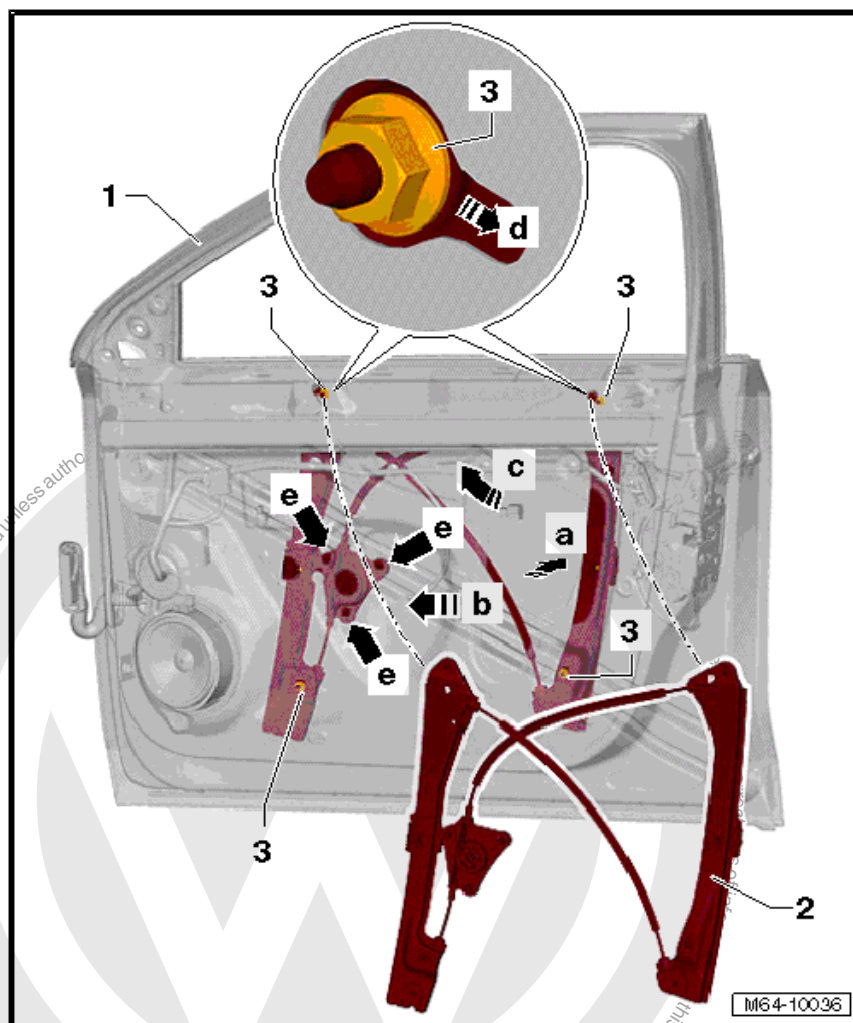


Carry out following work:

- Remove door window ⇒ [page 206](#)
- Removing window regulator motor ⇒ [page 212](#)
- Release locking hook of cable drum -arrows b- and push into door.
- Only undo lower nuts -3- and push threaded bolts of window regulator into door.
- Loosen upper nuts -3- (do not remove completely), move together with window regulator in -direction of arrow a- and push into door.
- Remove window regulator -2- together with cable drum out of opening in door -arrows c-, -d- and -e-.



2.5.2 Installing



Carry out following work:

- Insert window regulator -2- together with cable drum through opening in door -arrows a-, -b- and -c-
- Insert upper threaded bolts with nuts -3- through the door skin and move in -direction of arrow d-.
- Insert lower threaded bolts of window regulator through the door skin.
- Screw on lower nuts -3- and then tighten all nuts -3-.

Specified torque for nuts -3-: 8 Nm

- Insert guides of cable drum through door skin until locking hooks engage -arrows e-.
- Install window regulator motor ➔ [page 212](#)
- Install door window ➔ [page 206](#)



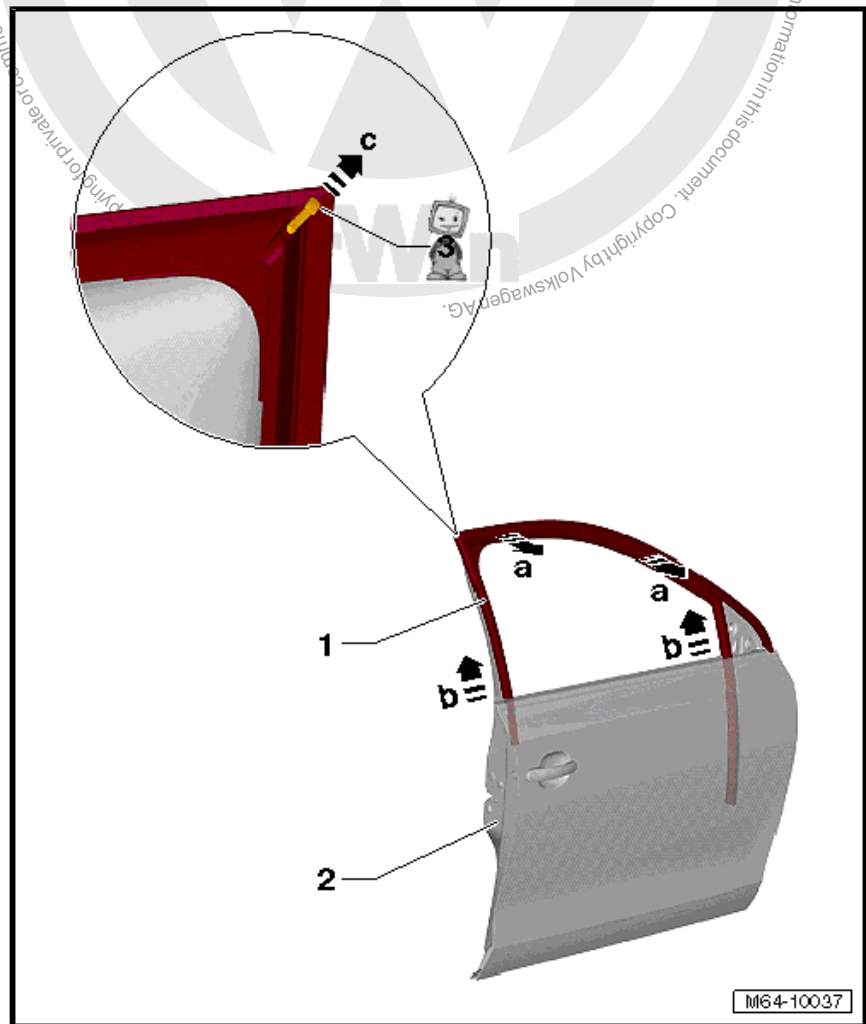
2.6 Removing and installing window channel



Note

- ◆ Removal and installation is described only for the right window channel. The removal and installation of the left window channel is similar.
- ◆ Do not bend the window slot seals when lifting off!

2.6.1 Removing



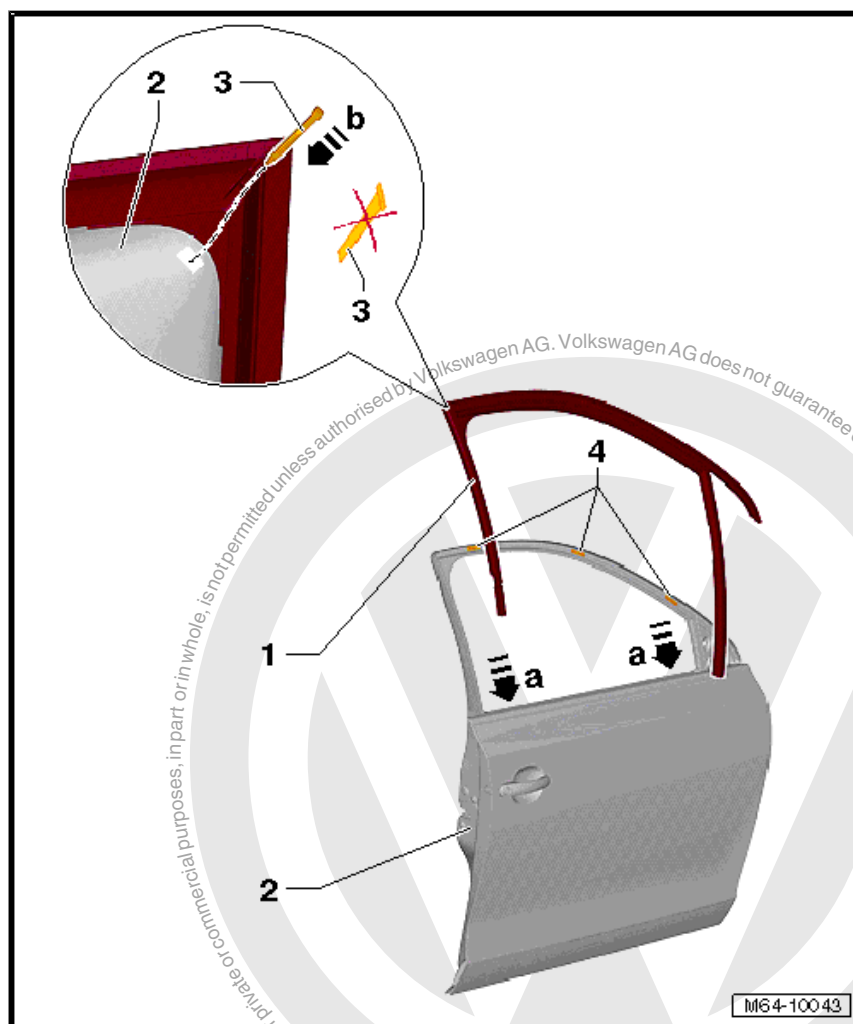
Carry out following work:

- Remove door window ⇒ [page 206](#) .
- Remove window slot inner seal ⇒ [page 105](#) .
- Remove window slot outer seal ⇒ [page 108](#) .
- Pull out retaining clip -3- -arrow c-.



- Peel sealing lip of window channel -1- off the door flange from the inside.
- Pull window channel -1- -arrows a- off flange -2- uniformly all around it.
- Pull window channel -1- out of mountings -arrows b-.

2.6.2 Installing



Carry out following work:

- Openings -4- beneath window channel are masked off with textile adhesive tape.

Adhesive tape dimensions: height = approx. 10 mm, width = approx. 40 mm.

- Spray window channel with soapy water to facilitate installation.
- Push window channel -1- into mountings -arrows a-.
- Push window channel -1- evenly all around onto the door flange -2-.
- Fold sealing lip of window channel onto door flange from the inside.



Note

To prevent wind noise, ensure window channel -1- seats evenly when installing.

- Push in retaining clip -3- -arrow c-.



Note

- ◆ *Retaining clip inclination must point to inner side of vehicle (vehicle interior).*
- ◆ *If retaining clip inclination points to outer side of vehicle -scored through in red-, retaining clip must be turned around.*

Further installation is performed in the reverse order of removal.



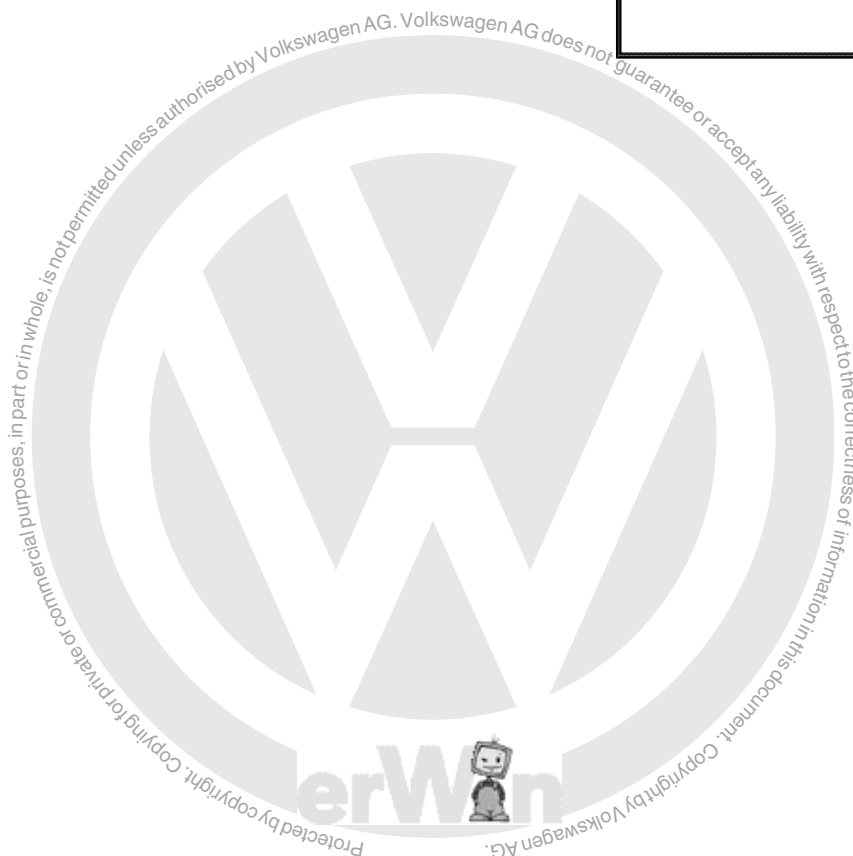
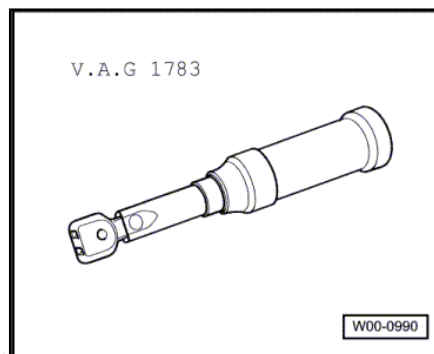


3 Rear door window

3.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-





3.2 Assembly overview - rear door windows



Note

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

1 - Door window

- ☐ Removing and installing
⇒ [page 221](#)

2 - Fixed door window

- ☐ Removing and installing
⇒ [page 232](#)

3 - Bolt

- ☐ Qty. 2.
- ☐ Specified torque: 5.5 Nm

4 - Window regulator

- ☐ Removing and installing
⇒ [page 227](#)

5 - Nut

- ☐ Qty. 2.
- ☐ Specified torque: 8 Nm

6 - Window regulator motor

- ☐ Removing and installing
⇒ [page 225](#)

7 - Bolt

- ☐ Qty. 3.
- ☐ Specified torque: 4 Nm

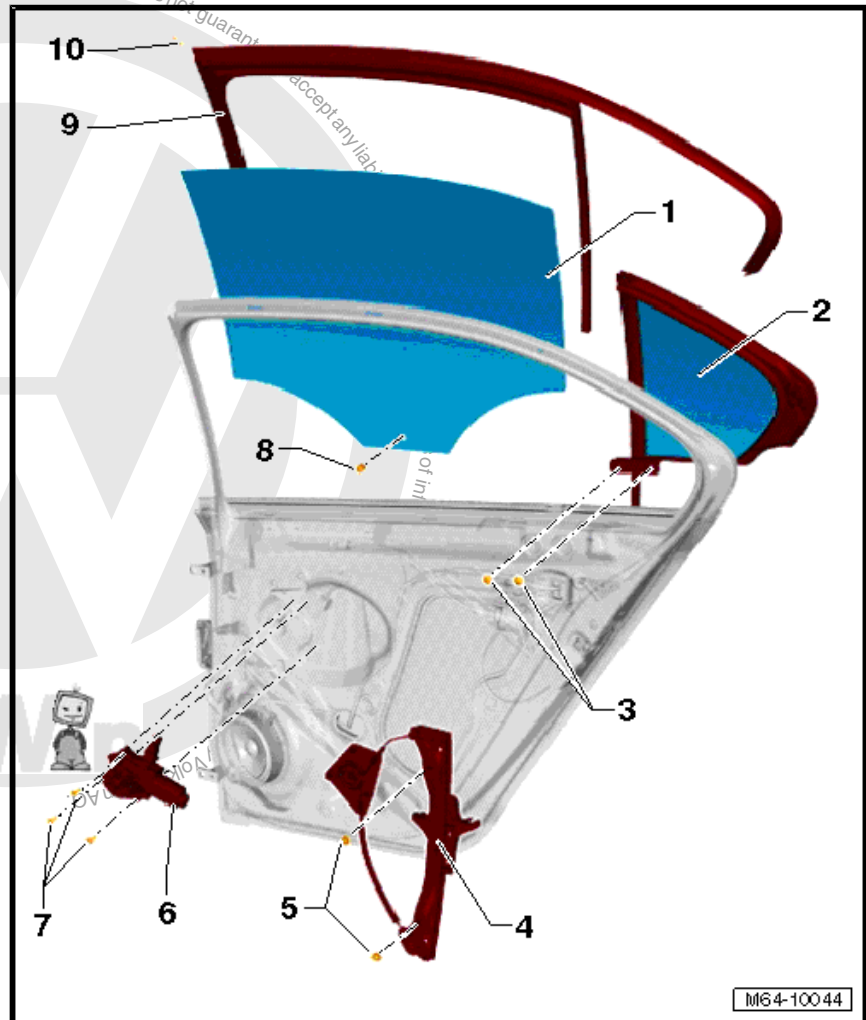
8 - Spreader plug with spreader pin

- ☐ For fastening the door window -1-
- ☐ Always renew when working on door window -1-.

9 - Window channel

- ☐ Removing and installing
⇒ [page 230](#)

10 - Retaining clip



3.3 Removing and installing door window

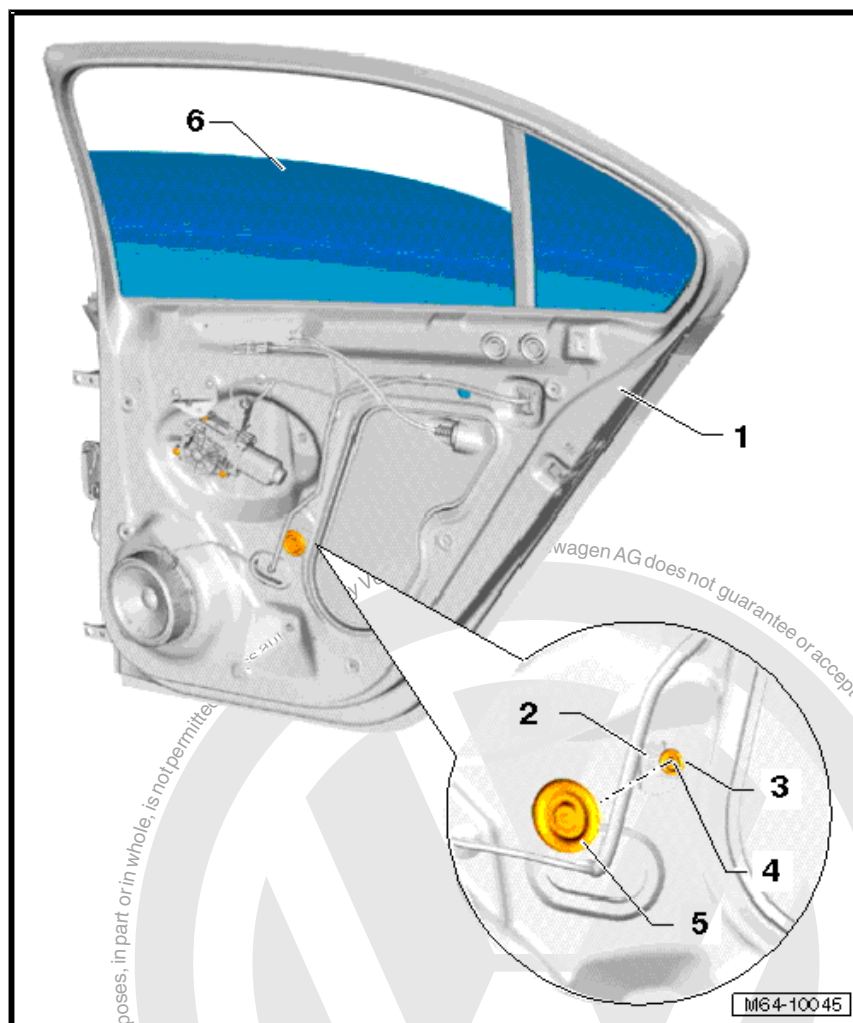


Note

- ◆ Removal and installation are described only for the right door window. The removal and installation of the left door window is similar.
- ◆ Do not bend the window slot seals when lifting off!



3.3.1 Removing



Carry out following work:

- Remove rear door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim .
- Lower door window -6- as far as stop.



Note

- ♦ *If this part of the work cannot be done due to a fault in window regulator motor -7-, the latter can be removed ⇒ [page 225](#) .*
- ♦ *The window can then be pushed to required working position.*
- Remove window slot inner seal ⇒ [page 145](#) .
- Remove window slot outer seal ⇒ [page 148](#) .
- Remove front part of window channel (at B-pillar) ⇒ [page 230](#) .
- Lever off cap -5-.



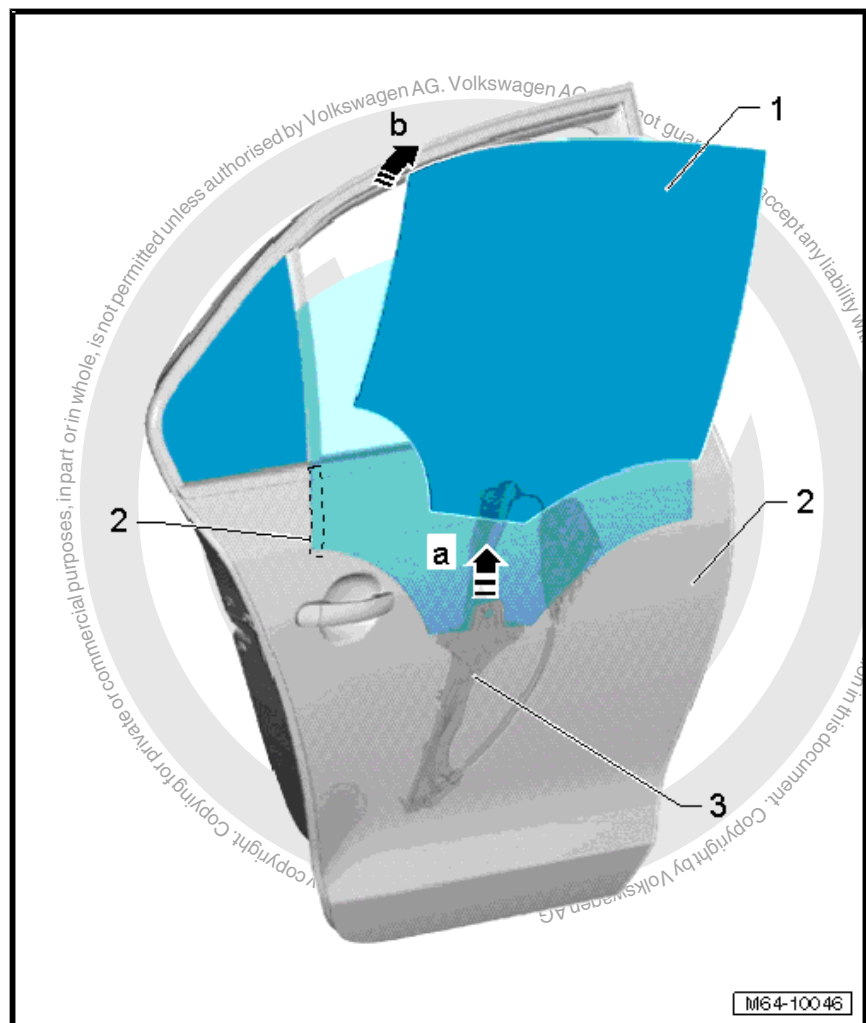
- Raise door window -6- until spreader pin -4- and spreader plug -3- are accessible in cut-out of window regulator -2-.
- Screw a 5 mm bolt (approx. 70 mm long) in the spreader pin -4- and pull bolt out of spreader plug -3-.
- Screw an 8 mm bolt (approx. 80 mm long) into spreader plug -3-.



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 and thus out of door window.



- Lift door window -1- upwards out of window regulator -3- -arrows a-.
- Pull door window -1- upwards at an angle -arrows b- out of window slot.

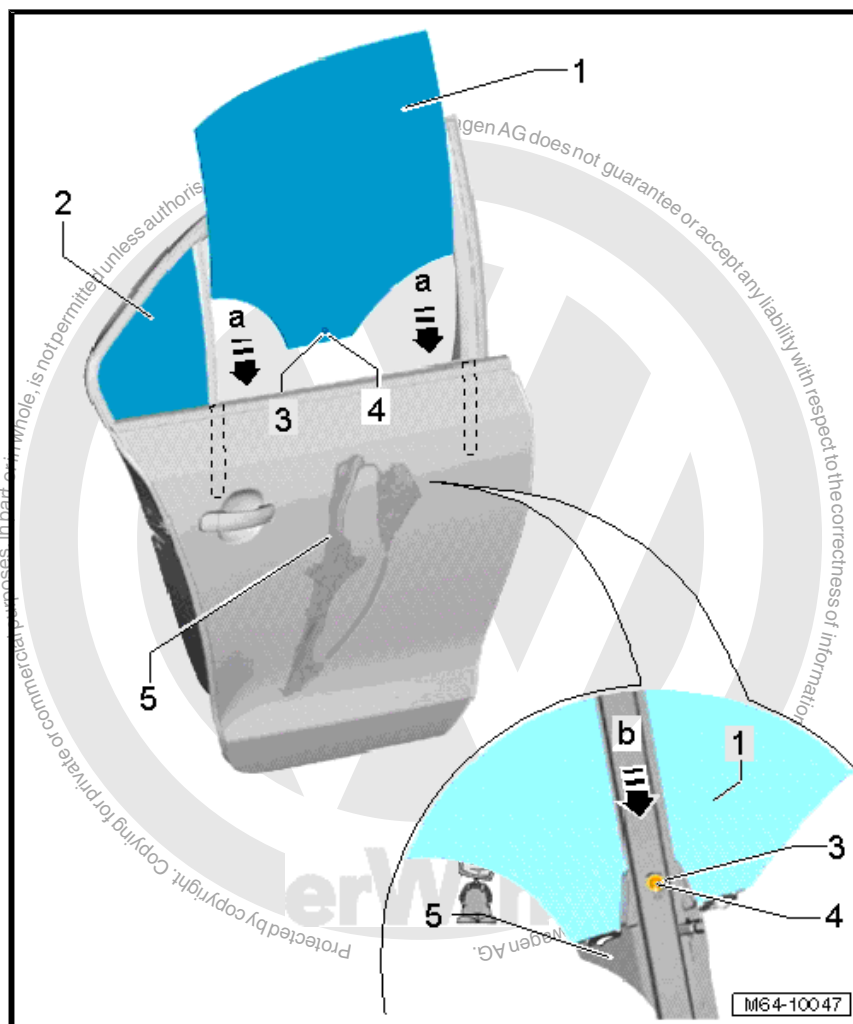


3.3.2 Installing



Note

- ◆ When installing door window, always renew spreader plug -3- and spreader pin -4-.
- ◆ Before inserting spreader plug -3- and spreader pin -4-, check window -1- for damage.



Carry out following work:

- Insert and centre spreader plug -3- in the middle with the door window removed -1-.
- Press spreader pin -4- flush into spreader plug -3-.
- Guide door window -1- into door -2- -arrows a- and insert door window into slot of window regulator -5-.
- With light pressure from above -arrows b-, engage window -1- in window regulator -5-.

Further installation is performed in the reverse order of removal.



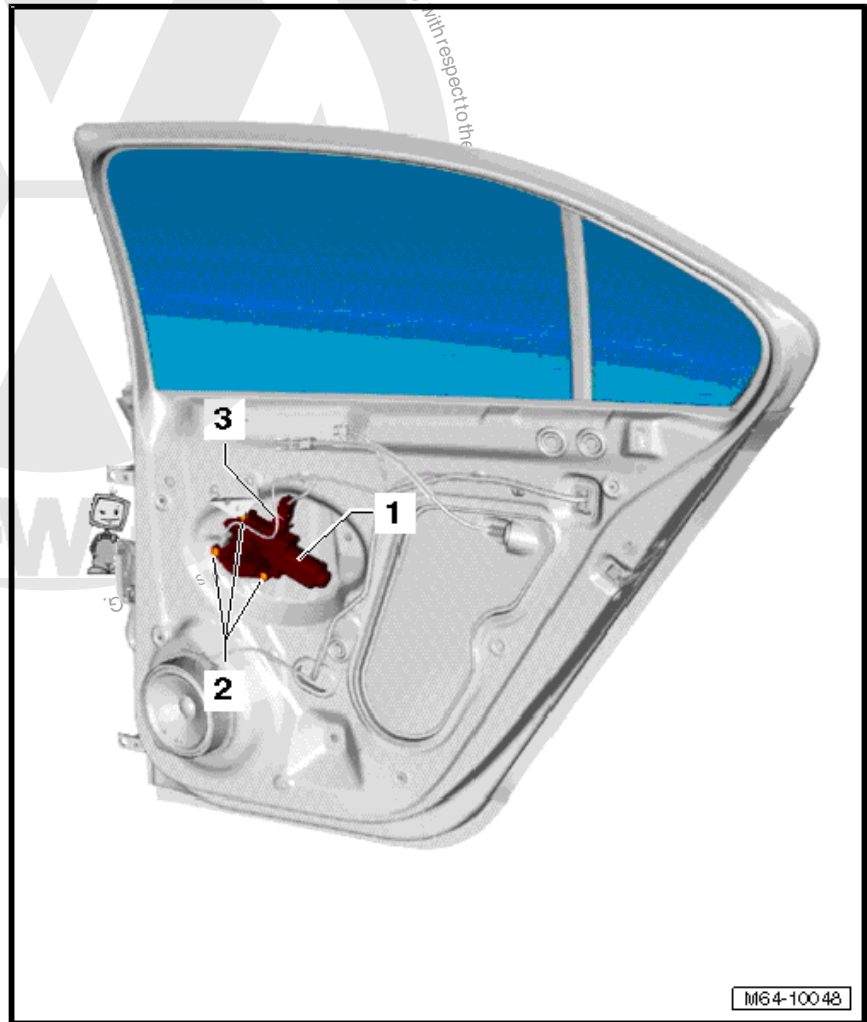
3.4 Removing and installing window regulator motor



Note

The removal and installation sequence is only for the right window regulator motor. The removal and installation of the left window regulator motor is similar.

3.4.1 Removing



Carry out following work:

- Remove rear door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim .
- Secure door window against sliding down with adhesive tape.



Caution

- ◆ *Switch off ignition and all electrical consumers.*
- ◆ *Remove ignition key.*

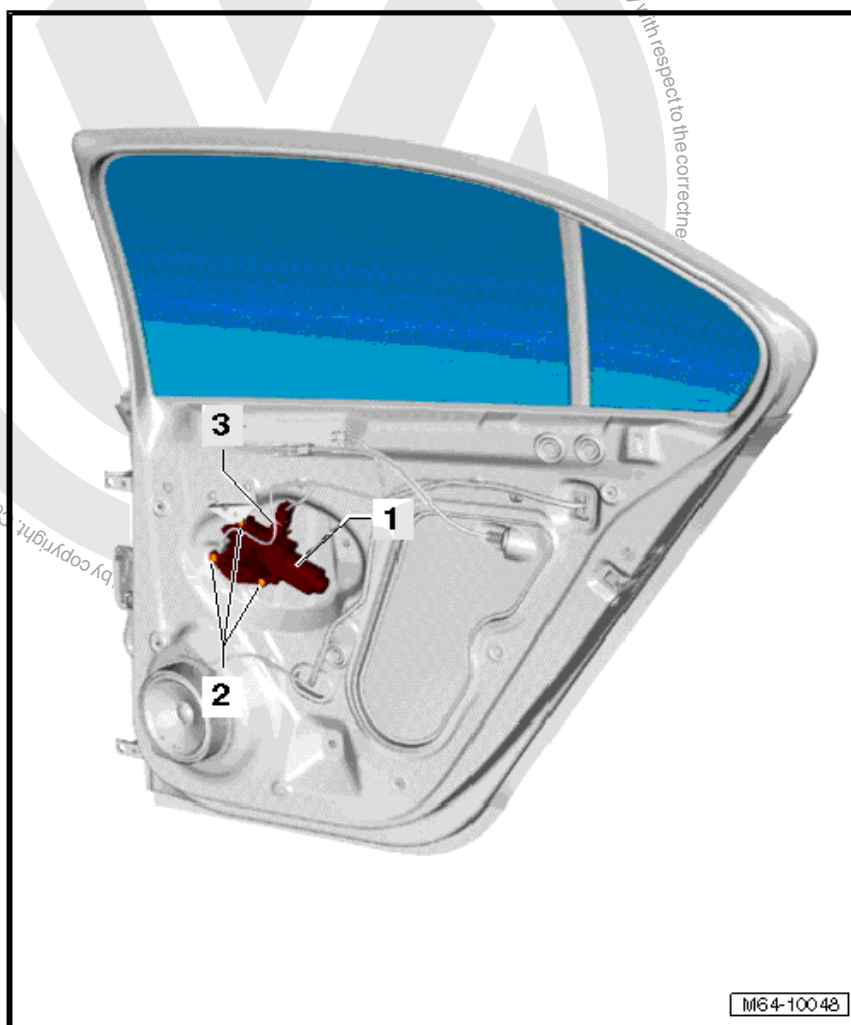
- Disconnect connector -3-.
- Remove the three screws -2-.
- Remove window regulator motor together with control unit -1- from mounting brackets.

3.4.2 Installing



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!





Carry out following work:

- Position window regulator motor -1- on mounting brackets of cable drum. Move door window up and down slightly so that the splines between window regulator motor and cable drum engage more easily.
- Screw in the three screws -2-.

Specified torque for bolts -2-: 4 Nm.

- Connect connector -3-.
- A new window regulator motor must be coded using the vehicle diagnosis, testing and information system -VAS 5051B- .
- The work procedure and notes on the automatic window raising and lowering system as well as on the excess-force limitation feature can be found in ⇒ Maintenance ; Booklet .

Further installation is performed in the reverse order of removal.

3.5 Removing and installing window regulator

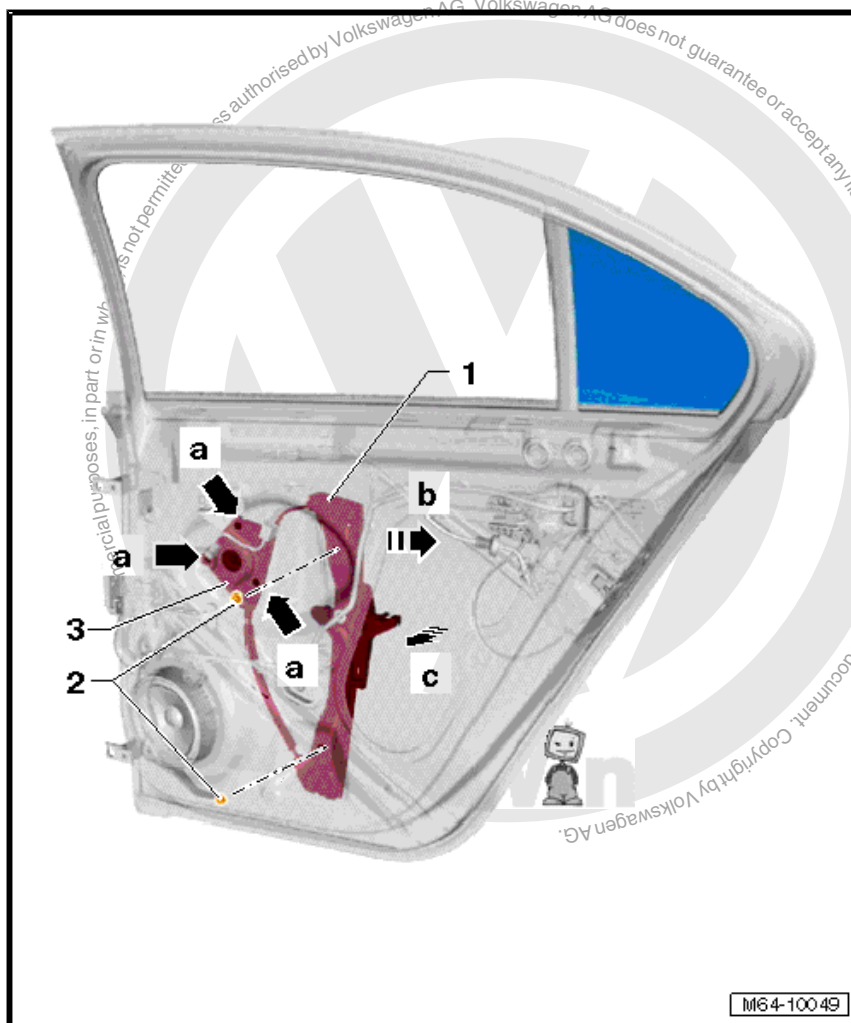


Note

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



3.5.1 Removing

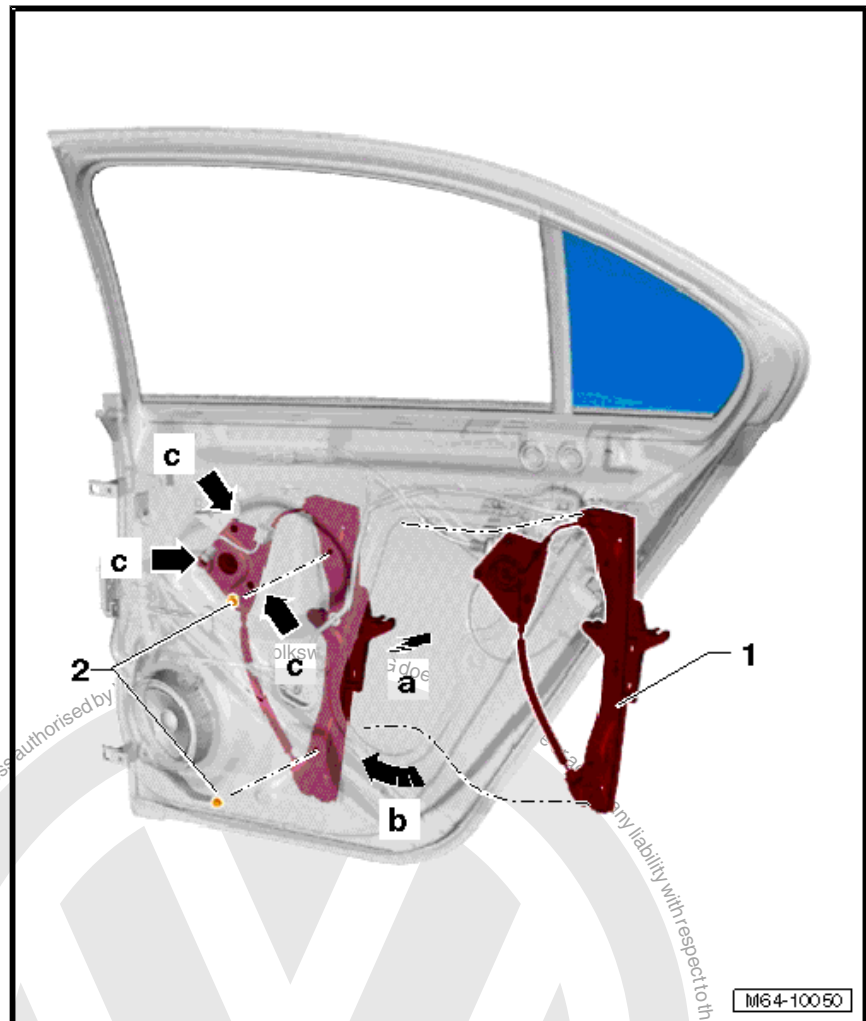


Carry out following work:

- Remove cover ⇒ [page 130](#) .
- Remove door window ⇒ [page 221](#) .
- Removing window regulator motor ⇒ [page 225](#)
- Release locking hook of cable drum -arrows d- and push cable drum -3- into door.
- Undo nuts -2- and push threaded bolts of window regulator into door.
- Lever out window regulator -1- together with cable drum through opening in door -arrows b- and -c-.



3.5.2 Installing



Carry out following work:

- Insert window regulator -1- together with cable drum through opening in door and move to mounting position -arrows a- and -b-.
- Insert threaded bolts of window regulator through the door skin.
- Screw on nuts -2- and tighten.

Specified torque for nuts -2- 8 Nm

- Insert guides of cable drum through door skin until locking hooks engage -arrows c-.
- Install window regulator motor ➤ [page 225](#)
- Install door window ➤ [page 221](#)
- Fit cover ➤ [page 130](#) .



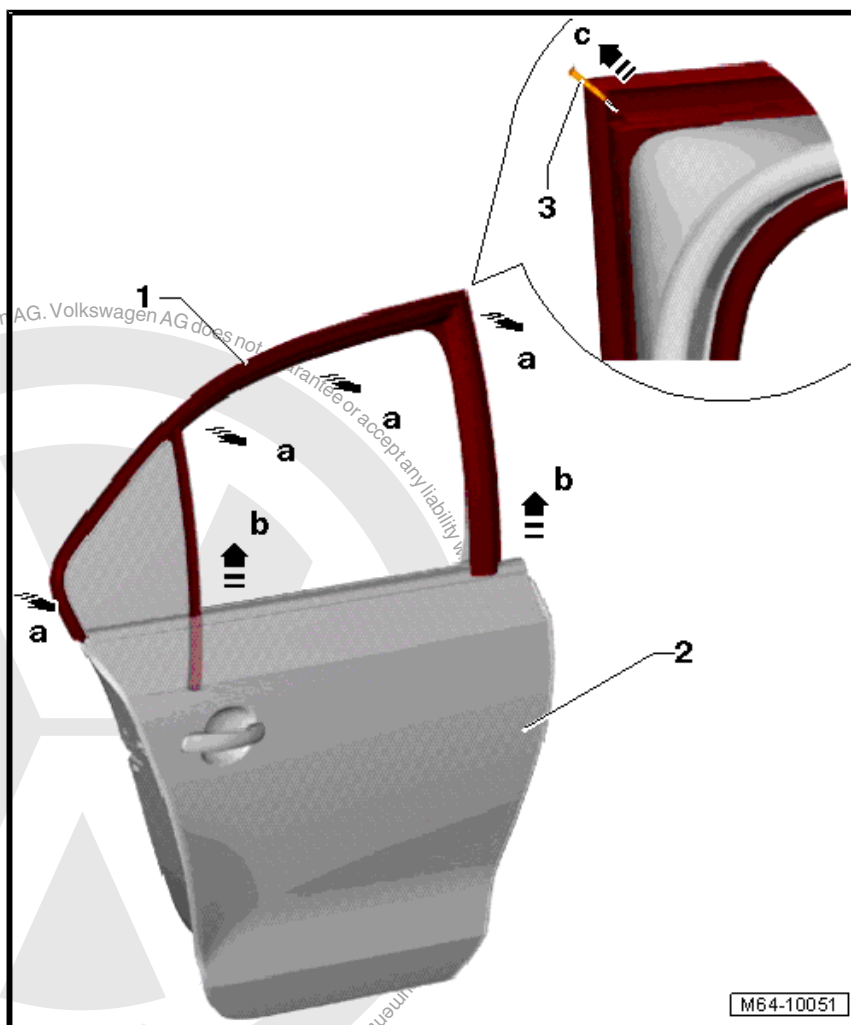
3.6 Removing and installing window channel



Note

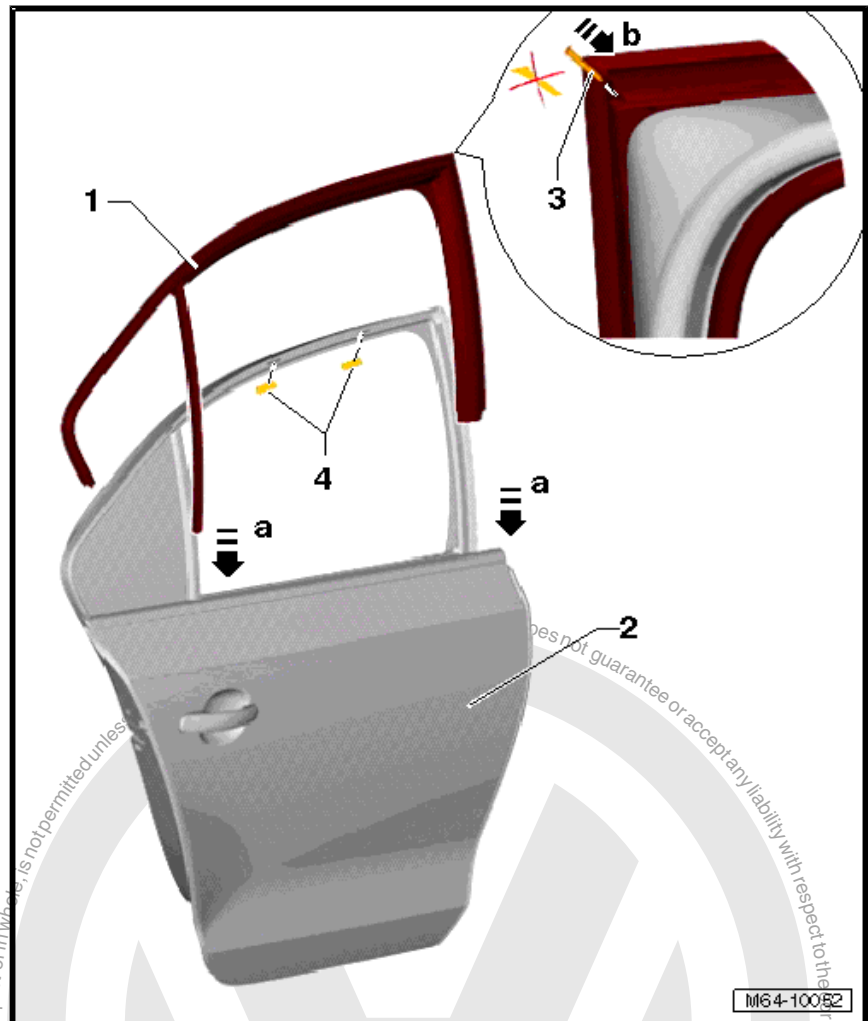
Removal and installation is described only for the right window channel. The removal and installation of the left window channel is similar.

3.6.1 Removing



Carry out following work:

- Remove door window ➔ [page 221](#) .
- Pull out retaining clip -3- -arrow c-.
- Peel sealing lip of window channel -1- off the door flange from the inside.
- Pull window channel -1- -arrows a- off flange -2- uniformly all around it.
- Pull window channel -1- out of mountings -arrows b-.





Note

- ◆ *To prevent wind noise, ensure window channel -1- seats evenly when installing.*
- ◆ *The window channel is installed at the B-pillar after installation of the door window.*
- Push in retaining clip -3- -arrow c-.



Note

- ◆ *Retaining clip inclination must point to inner side of vehicle (vehicle interior).*
- ◆ *If retaining clip inclination points to outer side of vehicle -scored through in red-, retaining clip must be turned around.*

Further installation is performed in the reverse order of removal.

3.7 Removing and installing fixed door window

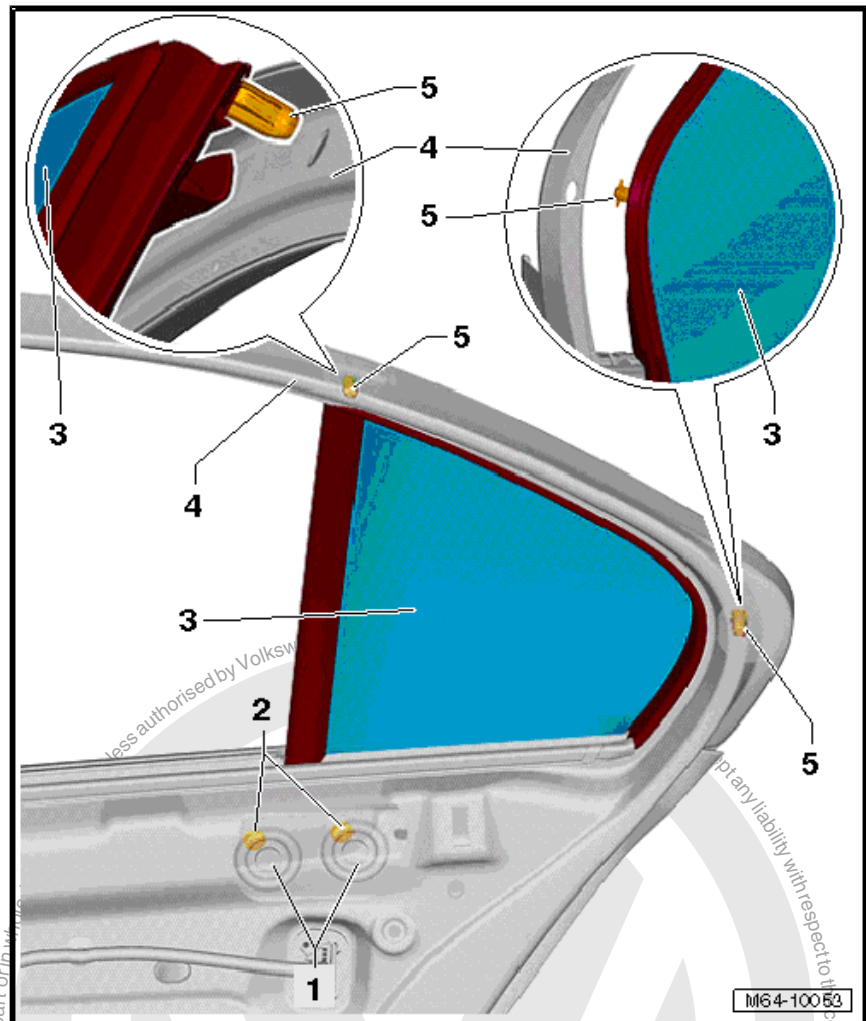


Note

Removal and installation are described only for the right fixed door window. Removal and installation of the left fixed door window is analogous.



3.7.1 Removing

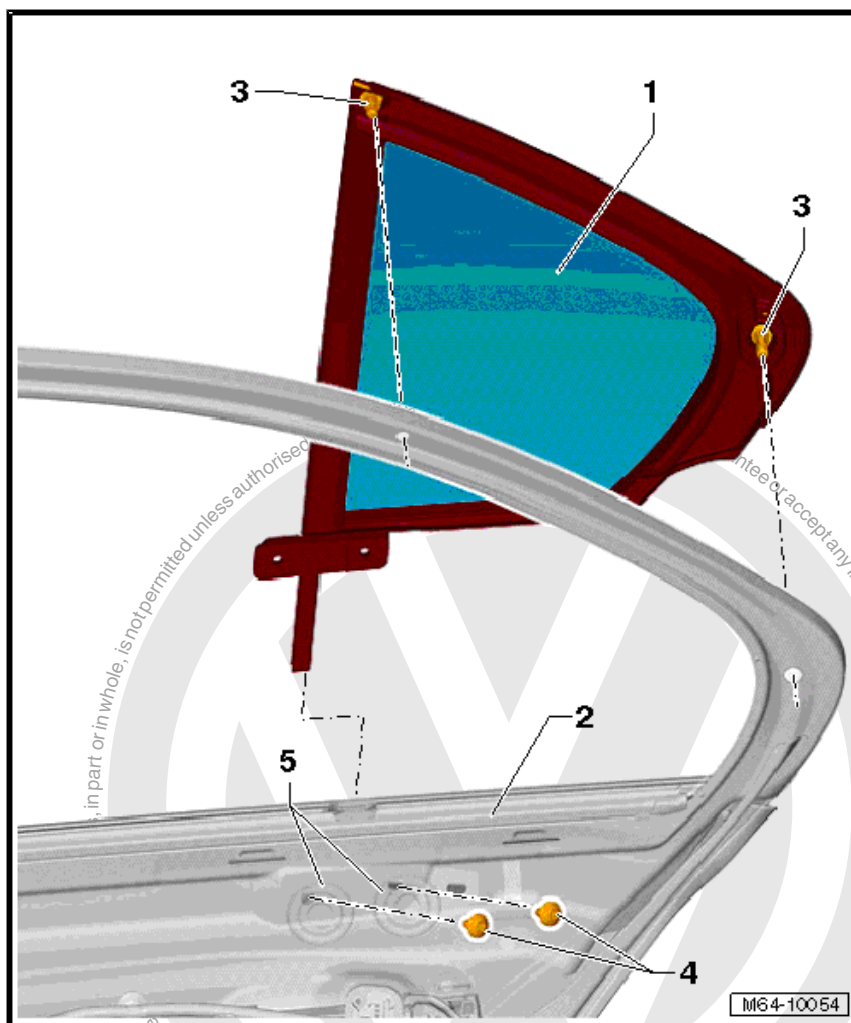


Carry out following work:

- Remove window channel ➔ [page 230](#) .
- Lever out cover caps -1-.
- Remove bolts -2-.
- Pull fixed door window -3- away from the door -4- only until the clips -5- disengage.
- Remove fixed door window -3- upwards out of door -4-.



3.7.2 Installing



Carry out following work:

- Push fixed door window -1- into door -2-.
 - Press fixed door window -1- evenly onto door -2- until the clips -3- engage.
 - Screw in bolts -4- and tighten them.
- Specified torque for bolts -4-: 5.5 Nm.
- Press cover caps -5- into door skin.
 - Install window channel ➔ [page 230](#)



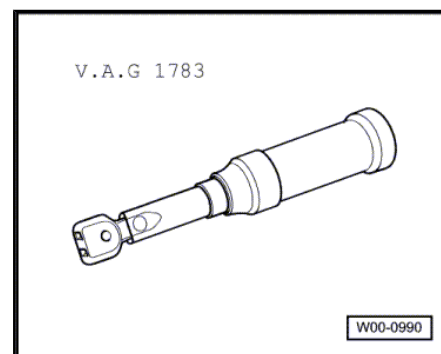
66 – Exterior equipment

1 Wheel housing liner

1.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-





1.2 Assembly overview - front wheel housing liner



Note

- ♦ Minor differences may be encountered in respect of wheel housing liner, depending on vehicle model.
- ♦ Only the left side is shown. The right side is similar.

1 - Wheel housing liner

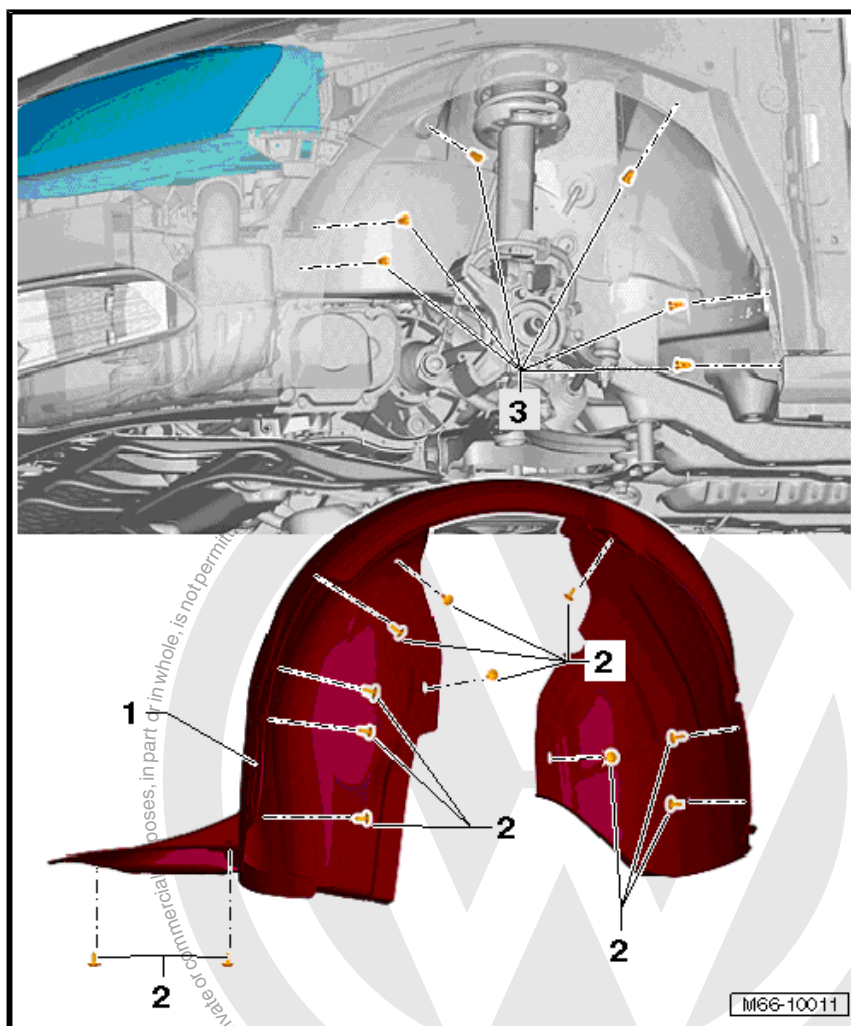
- ❑ Material PP/EPDM.
- ❑ Removing and installing
⇒ [page 236](#)

2 - Bolt

- ❑ Qty. 12.
- ❑ Specified torque: 2 Nm

3 - Expanding nut

- ❑ Qty. 6.
- ❑ Renew if damaged



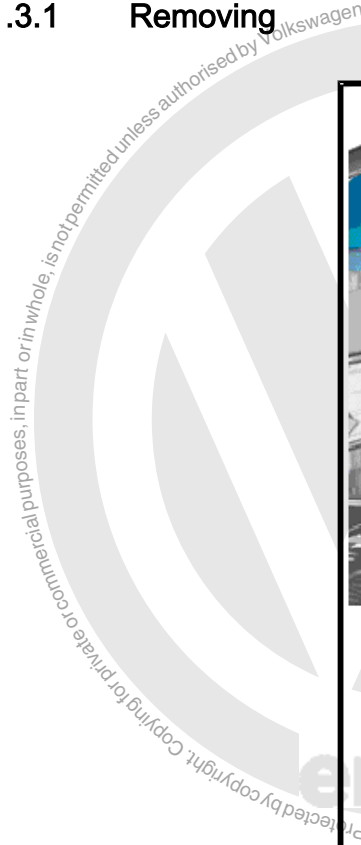
1.3 Removing and installing front wheel housing liner



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.

1.3.1 Removing

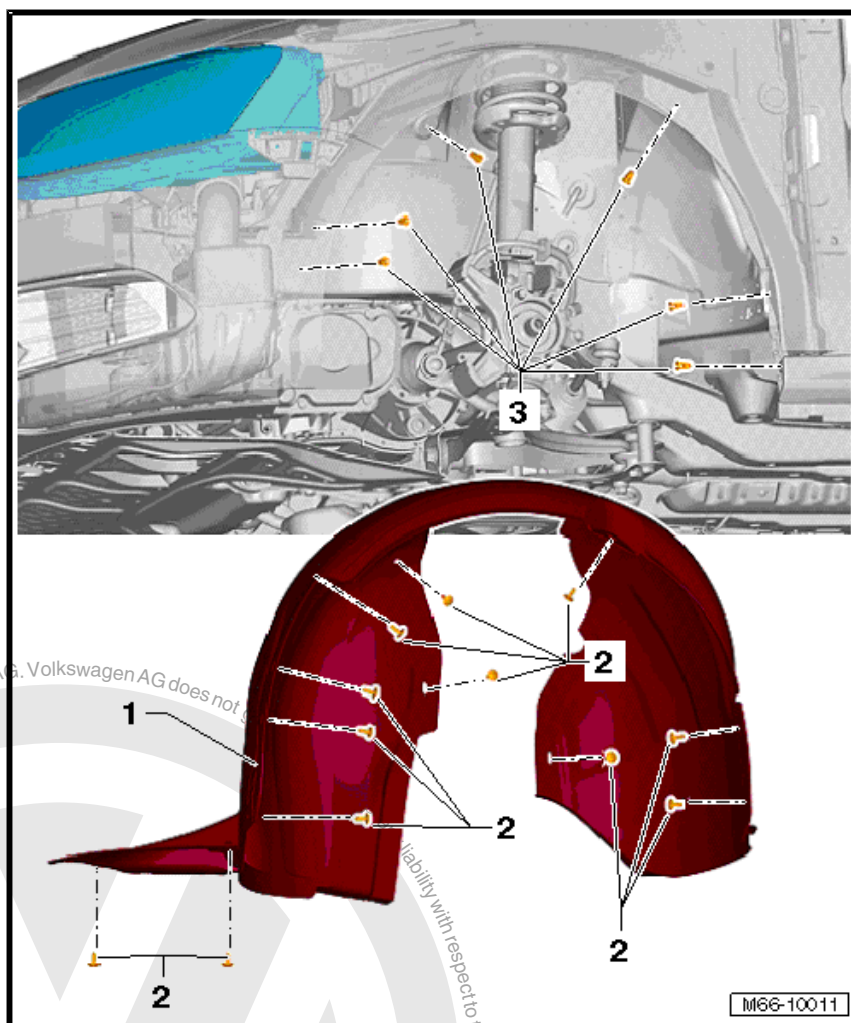


Carry out following work:

- Remove wheel ⇒ Running gear; Rep. gr. 44 ; Specified torques for wheel bolts .
- Remove bolts -2- (Qty. 12).
- Pull wheel housing liner -1- out of wing.



1.3.2 Installing



Carry out following work:



Note

Check spreader nuts -3- for damage and renew if necessary.

- Insert wheel housing liner -1- into wing.
- Screw in bolts -2- and tighten them.

Specified torque for bolts -2-: 2 Nm.

- Fit wheel ➤ Running gear; Rep. gr. 44; Specified torques for wheel bolts .



1.4 Assembly overview - rear wheel housing liner



Note

- ♦ Minor differences may be encountered in respect of wheel housing liner, depending on vehicle model.
- ♦ Only the left side is shown. The right side is similar.

1 - Wheel housing liner

- ❑ Material PP/EPDM.
- ❑ Removing and installing
⇒ [page 240](#)

2 - Bolt

- ❑ Qty. 10.
- ❑ Specified torque: 2 Nm

3 - Expanding nut

- ❑ Qty. 5.
- ❑ Renew if damaged

4 - Expanding nut

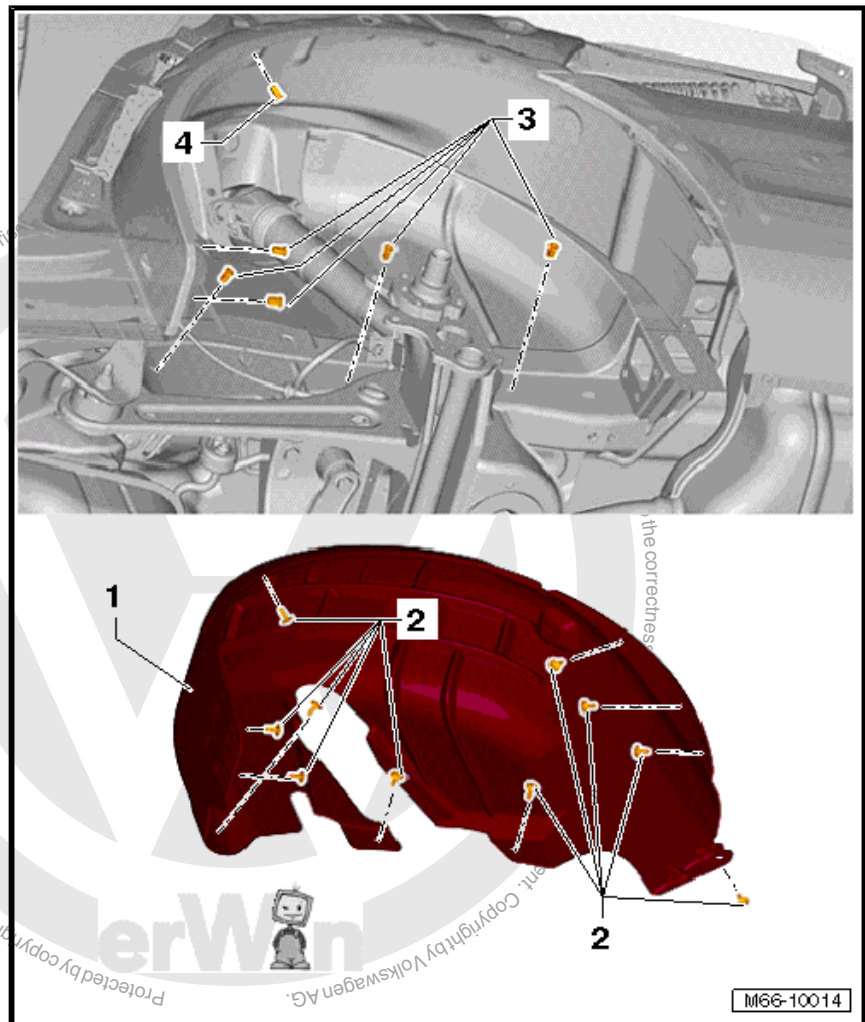
- ❑ Gas-tight.



WARNING

Check gas-tight spreader nuts for damage and renew if necessary.

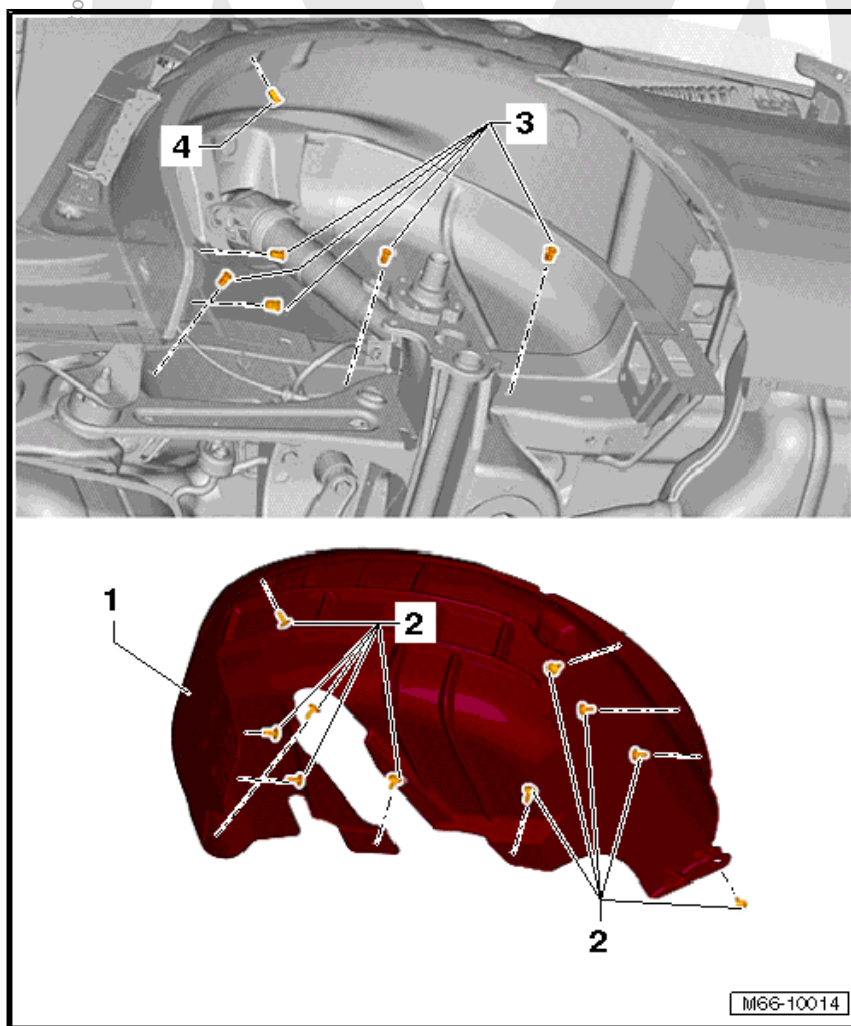
The spreader nut seals the interior against exhaust gases and must always be renewed in the event of damage.





1.5 Removing and installing rear wheel housing liner

1.5.1 Removing

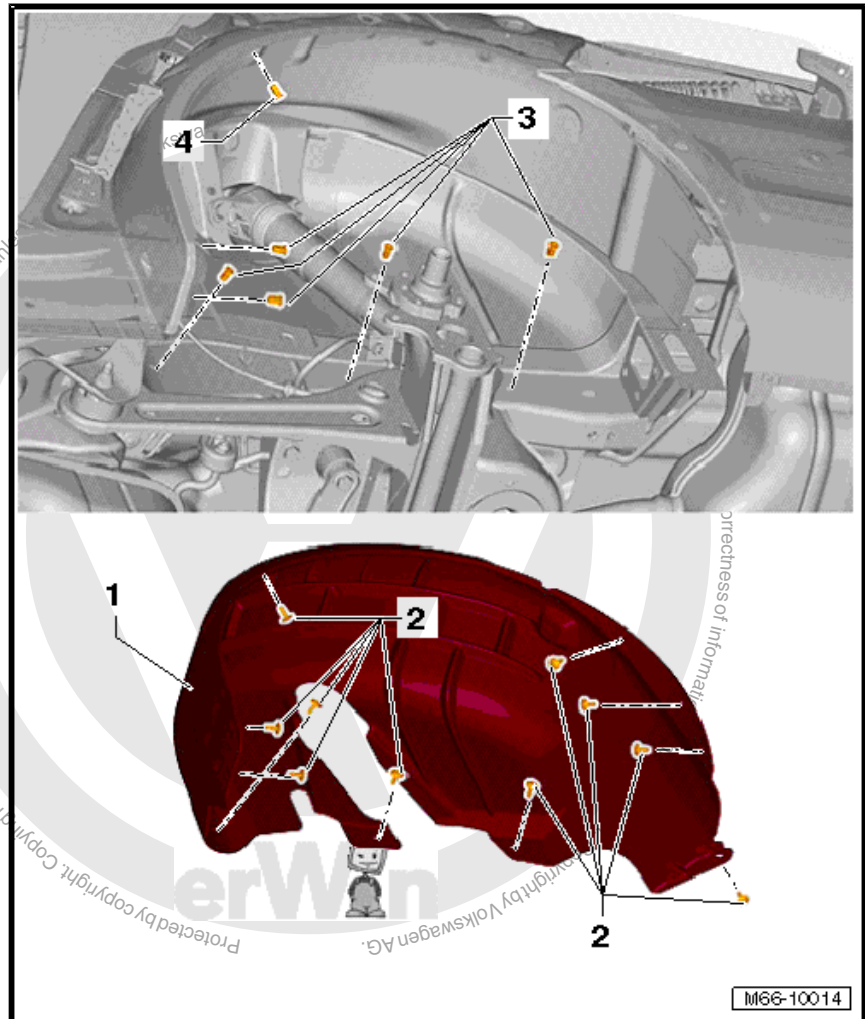


Carry out following work:

- Remove wheel ⇒ Running gear; Rep. gr. 44 ; Specified torques for wheel bolts
- Remove bolts -2- (Qty. 10).
- Pull wheel housing liner -1- out of wing.



1.5.2 Installing



Carry out following work:



Note

Check spreader nuts -3- for damage and renew if necessary.



WARNING

- ◆ *Check gas-tight spreader nuts -4- for damage and renew if necessary.*
- ◆ *The spreader nut seals the interior against exhaust gases and must always be renewed in the event of damage.*

- Insert wheel housing liner -1- into wing.
- Screw in bolts -2- and tighten them.

Specified torque for bolts -2-: 2 Nm.



- Fit wheel ⇒ Running gear; Rep. gr. 44 ; Specified torques for wheel bolts



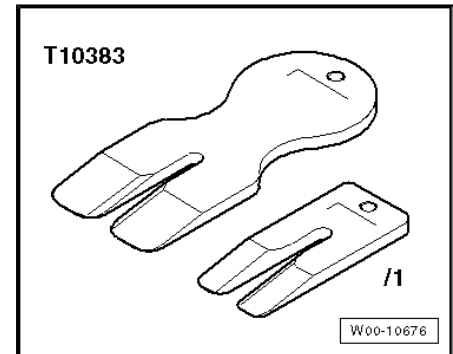


2 Exterior mirror

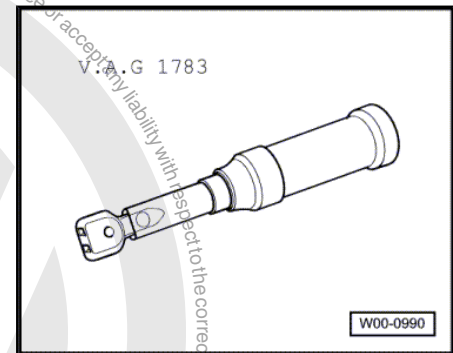
2.1 Tools

Special tools and workshop equipment required

- ◆ Wedges -T10383-



- ◆ Torque wrench -V.A.G 1783-





2.2 Assembly overview - exterior mirror (manual operation)



Note

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

1 - Mirror housing

- ❑ Material: ABS.
- ❑ Removing and installing
⇒ [page 248](#)

2 - Mirror mounting

- ❑ Removing and installing
⇒ [page 252](#)

3 - Trim

- ❑ Removing and installing
⇒ [page 247](#)

4 - Mirror glass

- ❑ Removing and installing
⇒ [page 245](#)

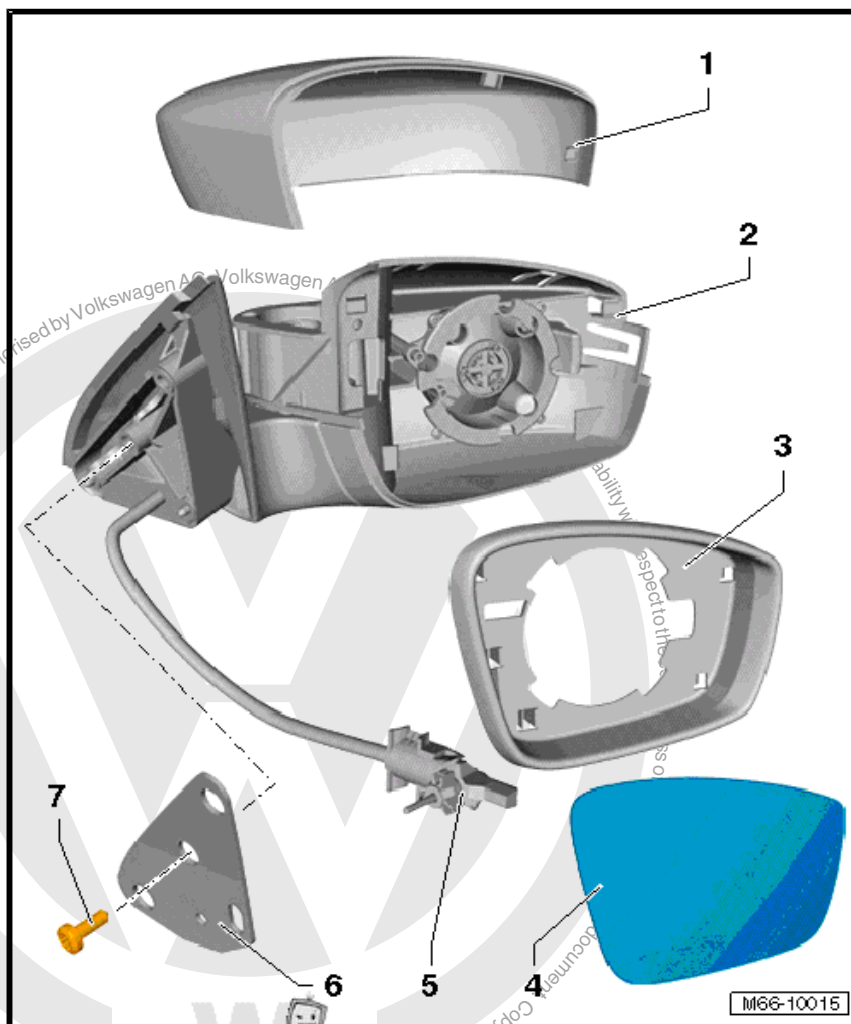
5 - Adjuster unit

- ❑ Cannot be separated
from mirror mounting
-2-

6 - Insulation

7 - Bolt

- ❑ Specified torque: 12 Nm





2.3 Assembly overview - exterior mirror (electric operation)



Note

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

1 - Mirror housing

- ❑ Material: ABS.
- ❑ Removing and installing
⇒ [page 248](#)

2 - Mirror mounting

- ❑ Removing and installing
⇒ [page 256](#)

3 - Adjuster unit with motor for exterior mirror

- ❑ Removing and installing
⇒ [page 250](#)

4 - Bolt

- ❑ Qty. 3.
- ❑ Specified torque: 2 Nm

5 - Trim

- ❑ Removing and installing
⇒ [page 247](#)

6 - Mirror glass

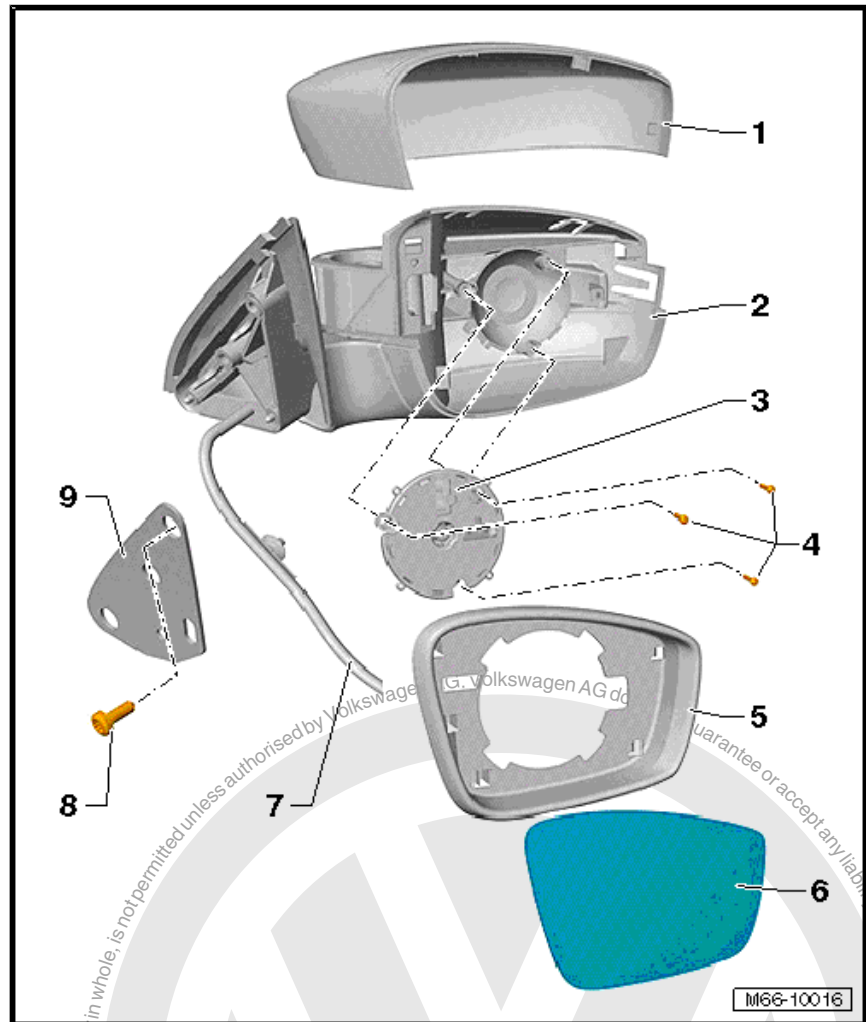
- ❑ Removing and installing
⇒ [page 245](#)

7 - Electrical cable and connector

8 - Bolt

- ❑ Specified torque: 12 Nm

9 - Insulation



2.4 Removing and installing mirror glass

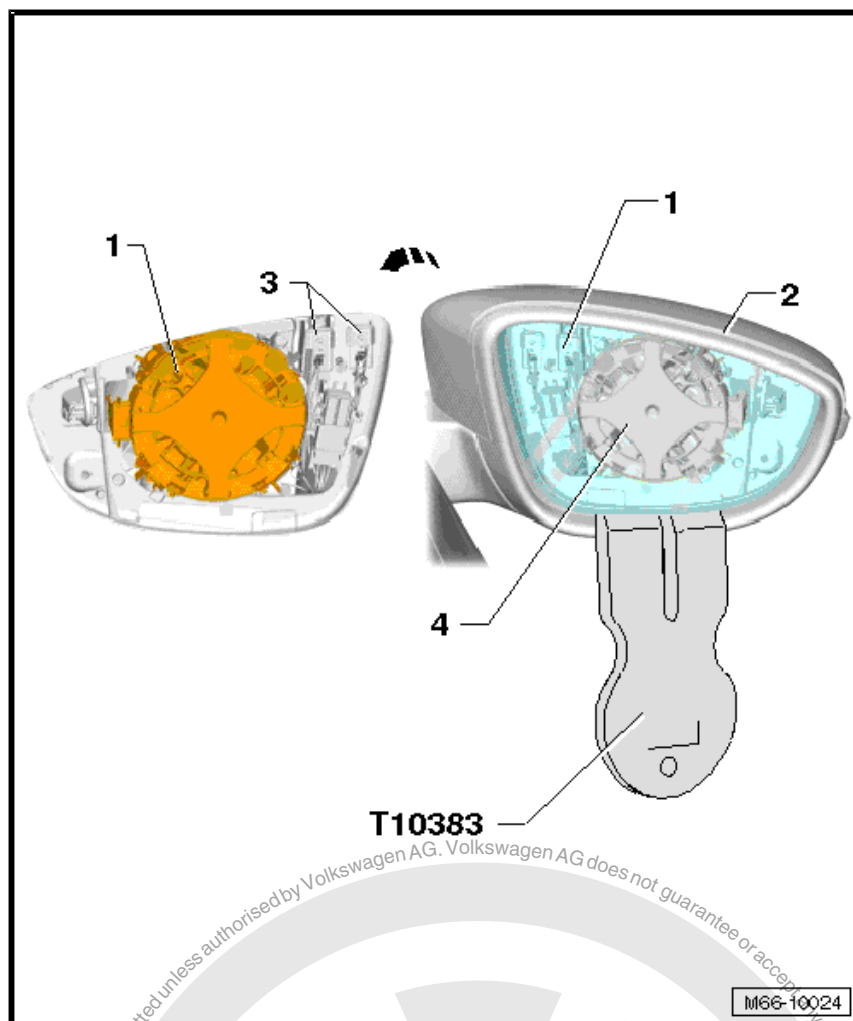


Note

Removal and installation is described for the right mirror glass only. The removal and installation of the left mirror glass is analogous.



2.4.1 Removing



Carry out following work:



WARNING

When doing this repair work, always wear safety goggles and leather gloves!

- Protect edge of housing -2- against paint damage with e.g. fabric-reinforced adhesive tape.
- Push top edge of mirror glass -1- into mirror housing -2-.
- Press mirror glass -1- off adjuster unit -4- using the wedge - T10383- .
- Swivel mirror glass -1- to side -arrow b- and detach existing connector contacts -3- for electric mirror heating on back of mirror glass -1-.



2.4.2 Installing

Carry out following work:

- Press connector contacts onto mirror glass.
- Push mirror glass centrally onto adjustment unit in housing.

Mirror glass engages audibly.

- Perform functional check.

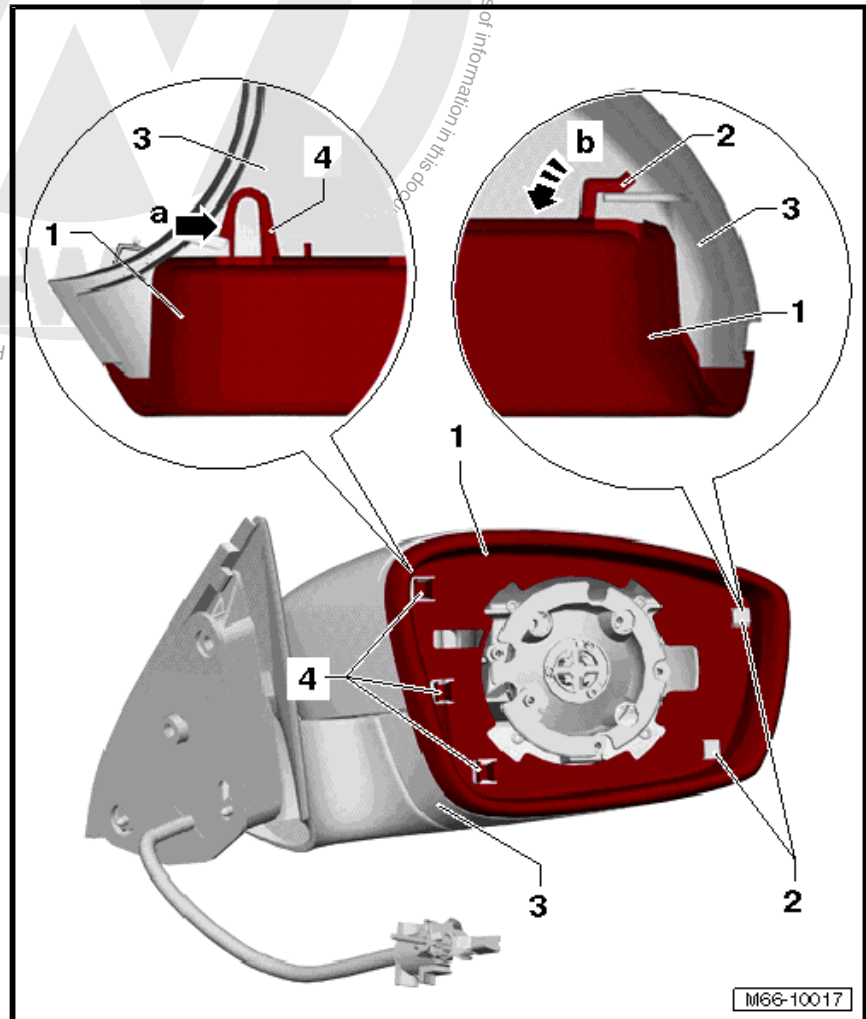
2.5 Removing and installing trim



Note

*The removal and installation sequence is only for the right trim.
Removal and installation of the left trim are analogous.*

2.5.1 Removing



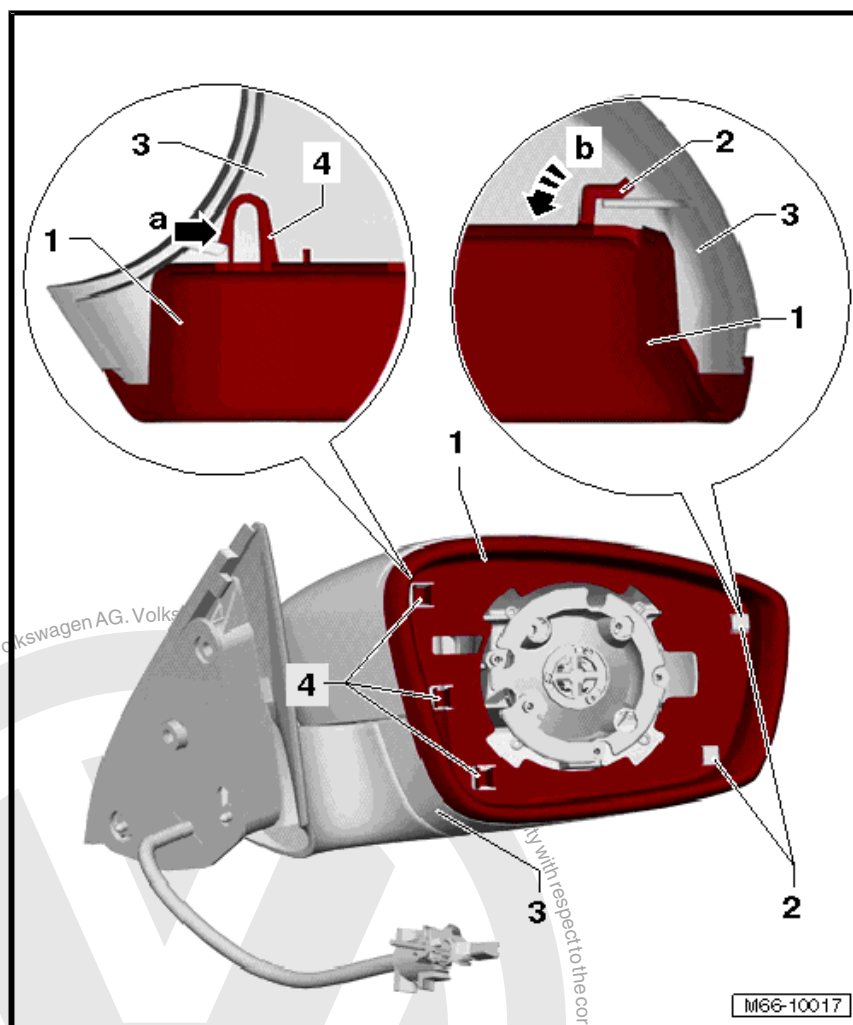
Carry out following work:

- Remove mirror glass ➔ [page 245](#) .



- Disengage locking hook -4- on trim -1- -arrow a-.
- Swivel trim -1- off retaining lugs -2- -arrow b-.
- Remove trim -1- from mirror mounting -3-.

2.5.2 Installing



Carry out following work:

- Swivel trim -1- behind retaining lugs -2- on mirror mounting -3-.
- Press trim -1- onto mirror mounting -3- until locking hooks -4- engage audibly.
- Install mirror glass ➔ [page 245](#) .

2.6 Removing and installing mirror housing

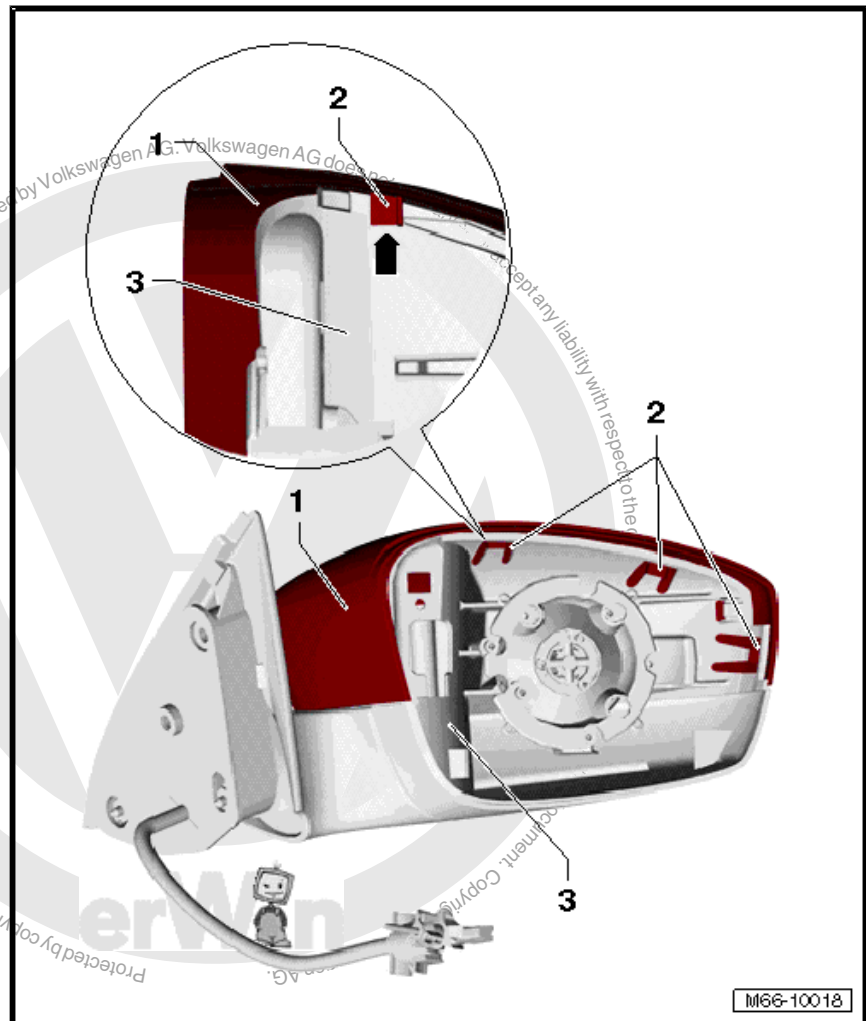


Note

Removal and installation is described for the right exterior mirror housing only. Removal and installation of the left exterior mirror housing are analogous.



2.6.1 Removing

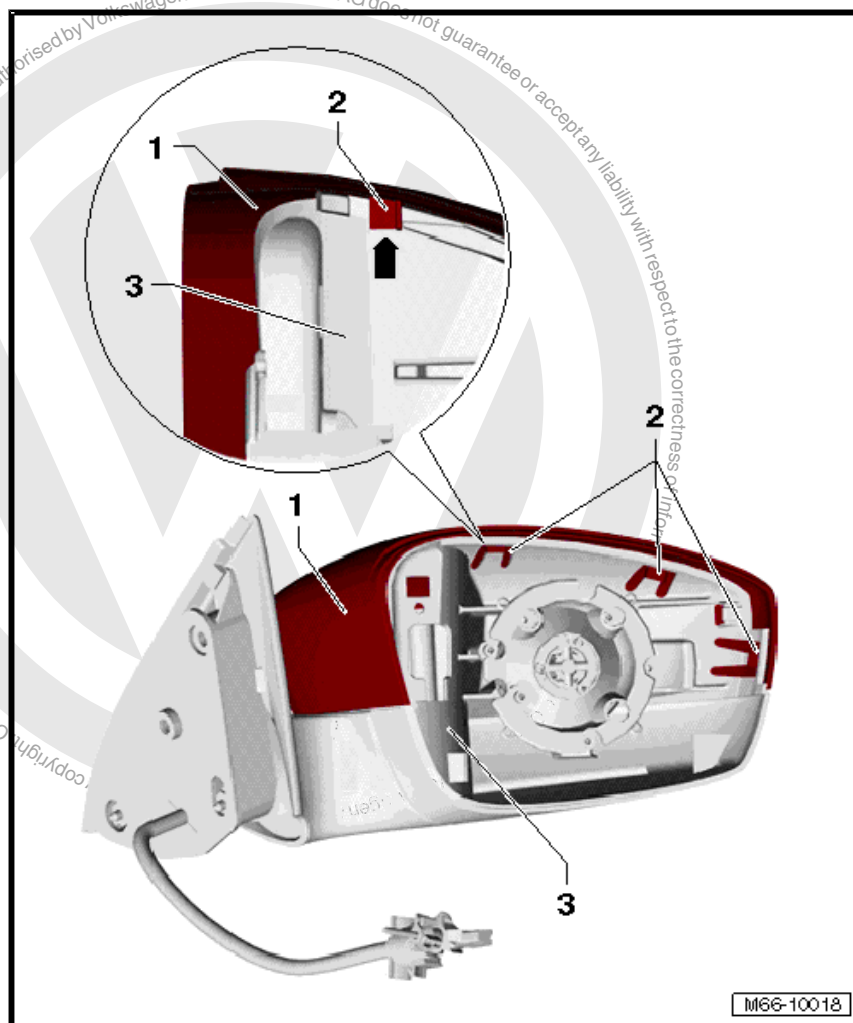


Carry out following work:

- Remove mirror glass ➔ [page 245](#) .
- Remove trim ➔ [page 247](#) .
- Disengage locking hooks -2- at mirror housing -1- -arrow-.
- Remove mirror housing -1- from mirror mounting -3-.



2.6.2 Installing



Carry out following work:

- Press mirror housing -1- onto mirror mounting -3- until locking hooks -2- engage audibly.
- Installing trim ➔ [page 247](#) .
- Install mirror glass ➔ [page 245](#) .

2.7 Removing and installing adjustment unit with motor for exterior mirror

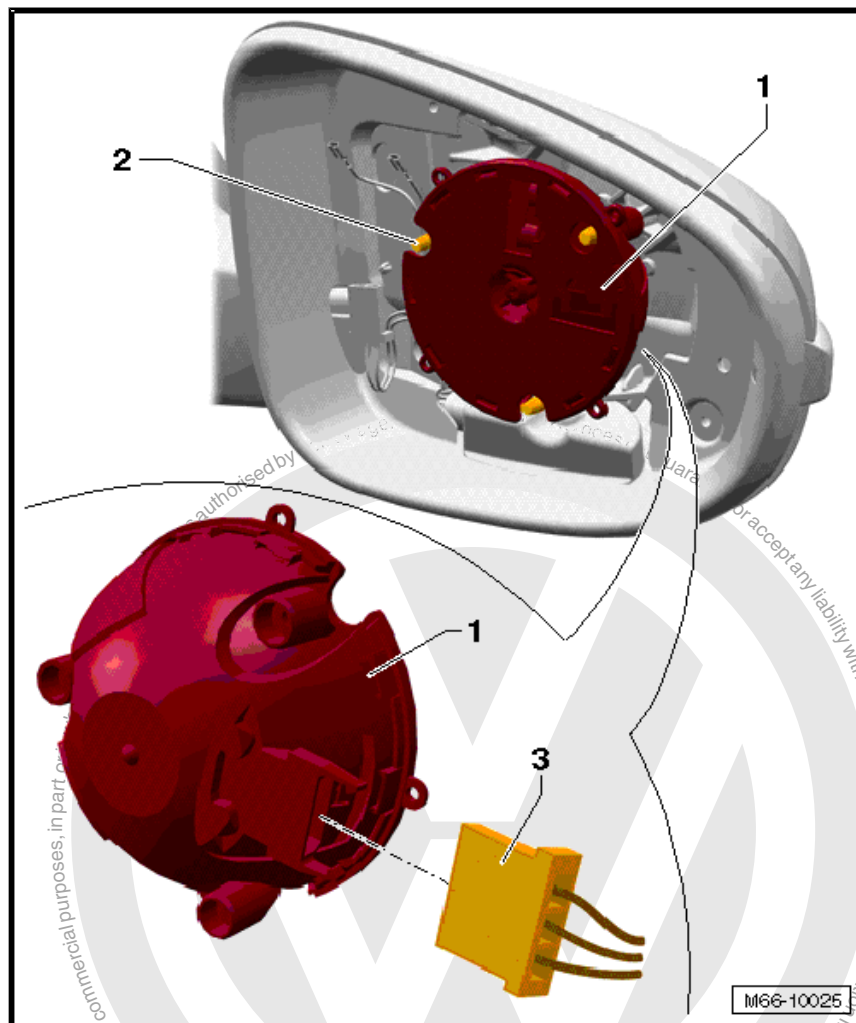


Note

The removal and installation sequence is only for the right adjustment unit with motor. Removal and installation of the left adjustment unit with motor are analogous.



2.7.1 Removing

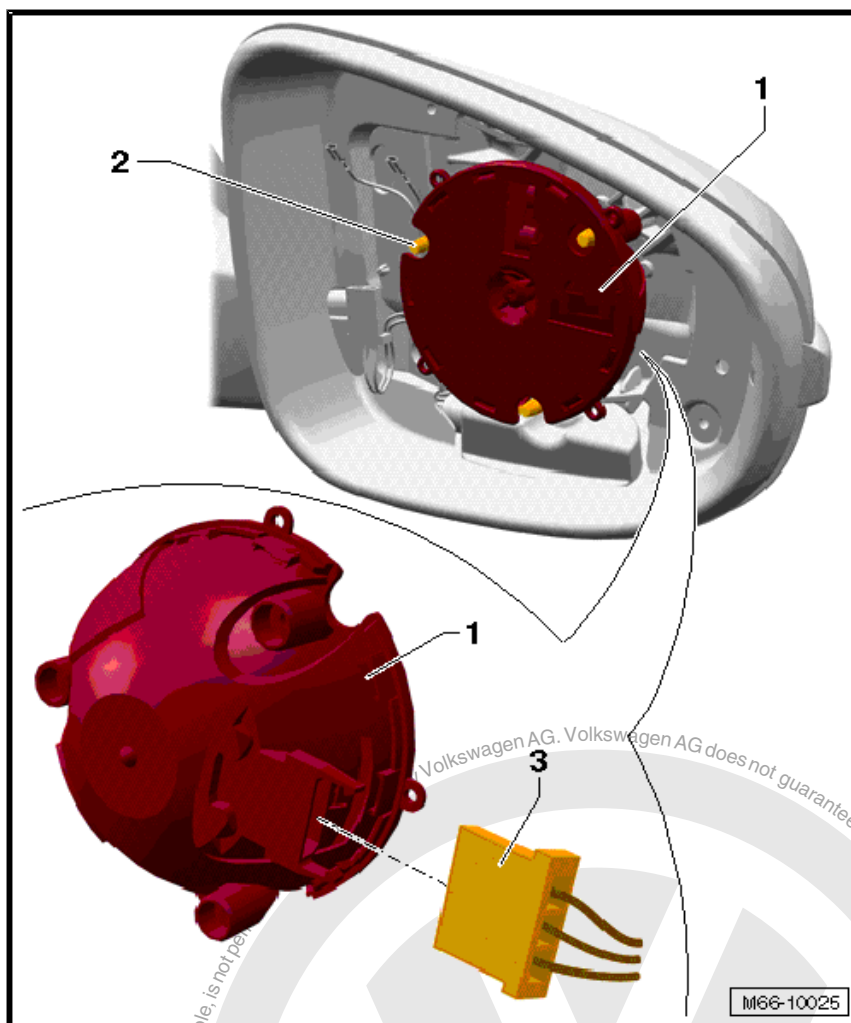


Carry out following work:

- Remove mirror glass ➔ [page 245](#) .
- Undo bolts -2- (3 bolts) and remove adjustment unit together with motor -1- from mirror mounting.
- Swivel adjustment unit together with motor -1- to the side and pull off connector -3-.



2.7.2 Installing



Carry out following work:

- Connect connector -3- to adjustment unit with motor -1-.
- Place adjustment unit with motor -1- on mirror mounting and fix in place by tightening screws -2- (qty. 3).

Specified torque for bolts -2-: 2 Nm.

- Install mirror glass ➔ [page 245](#) .
- Perform functional check.

2.8 Removing and installing exterior mirror (manual operation)

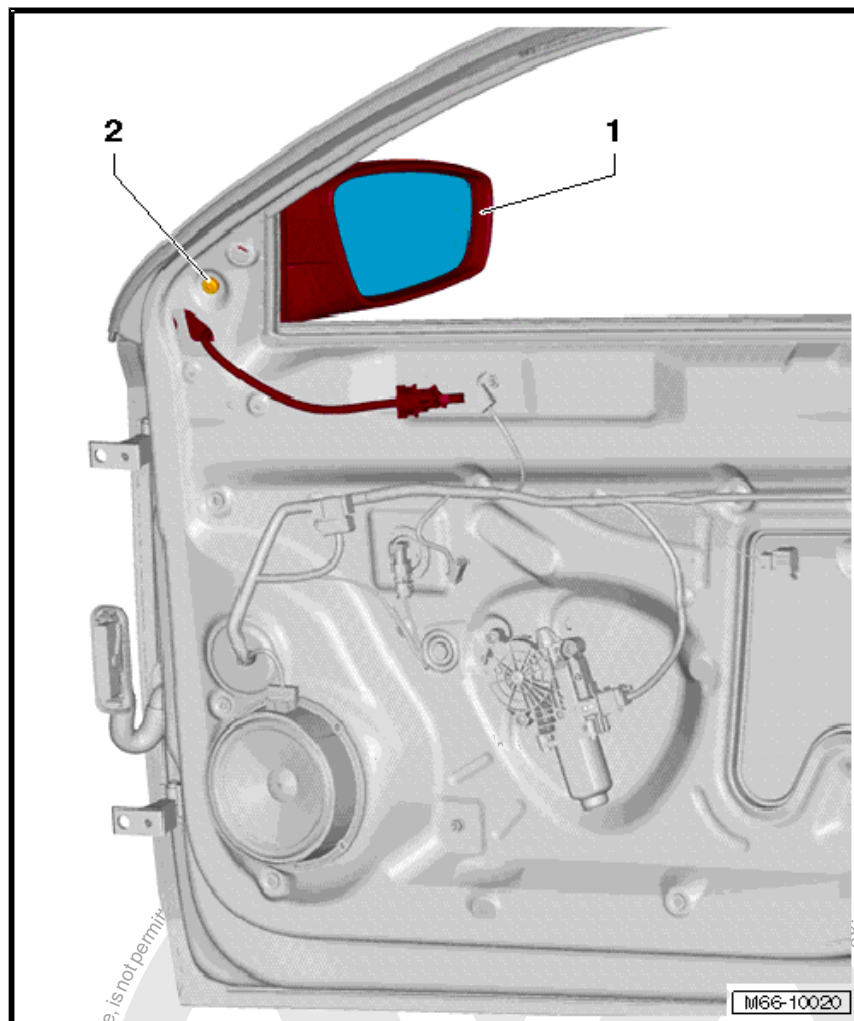


Note

The removal and installation sequence is only for the right exterior mirror. Removal and installation of the left exterior mirror are similar.

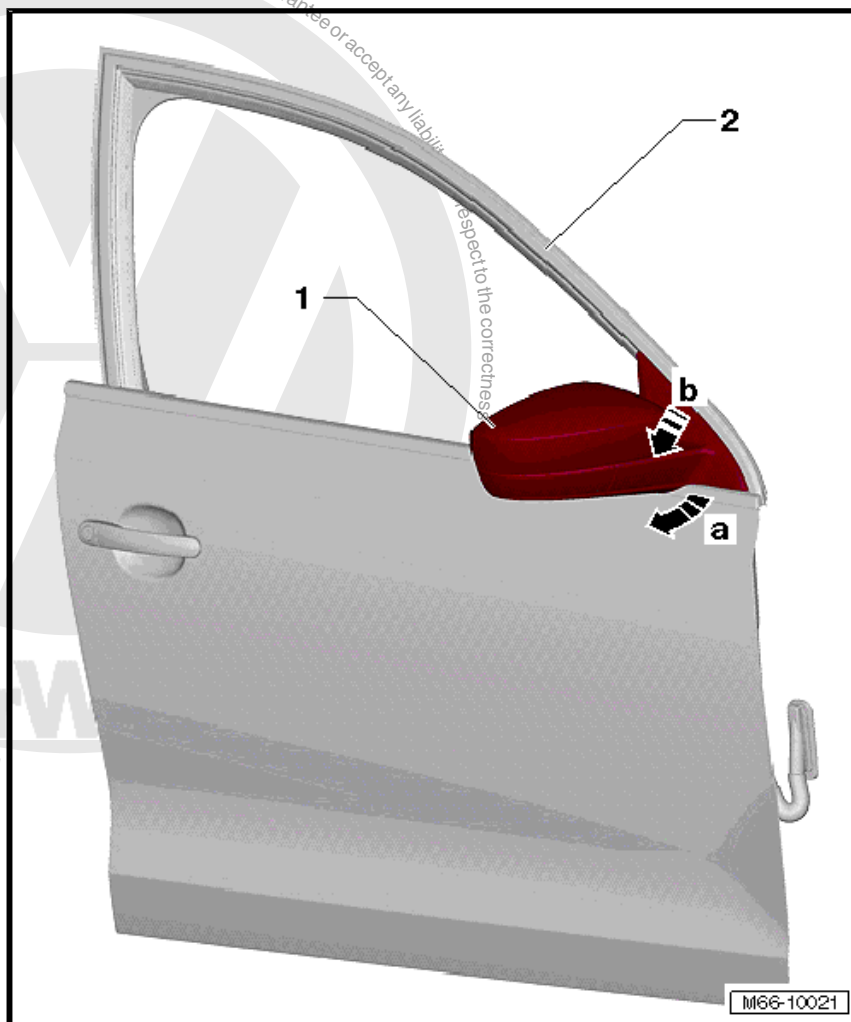


2.8.1 Removing



Carry out following work:

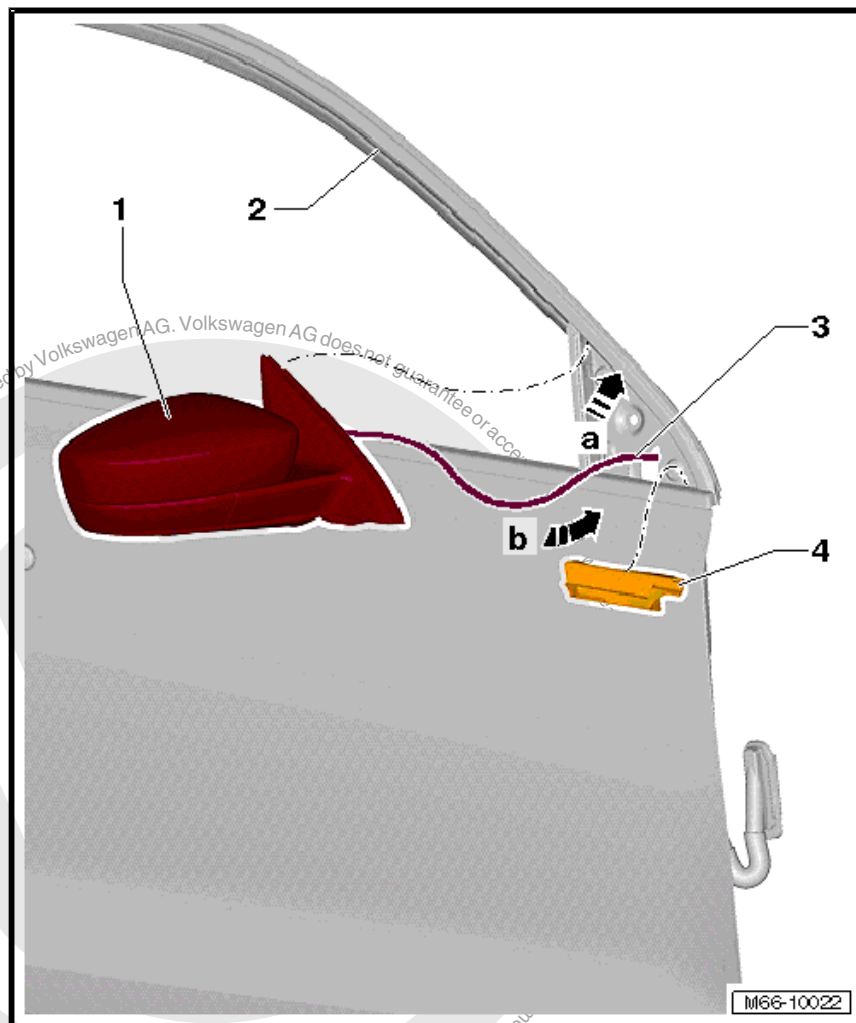
- Removing front door trim ⇒ General body repairs, interior;
Rep. gr. 70 ; Door trim .
- Detach connector (if there is one) for electric mirror heater.
- Undo bolt -2- for exterior mirror -1-.



- Swivel lower part of exterior mirror -1- away from the door a little -arrow a- and pull it downwards out of the window channel -2- -arrow b-.
- Thread cables for operating exterior mirror through the hole in the door and remove exterior mirror -1-.

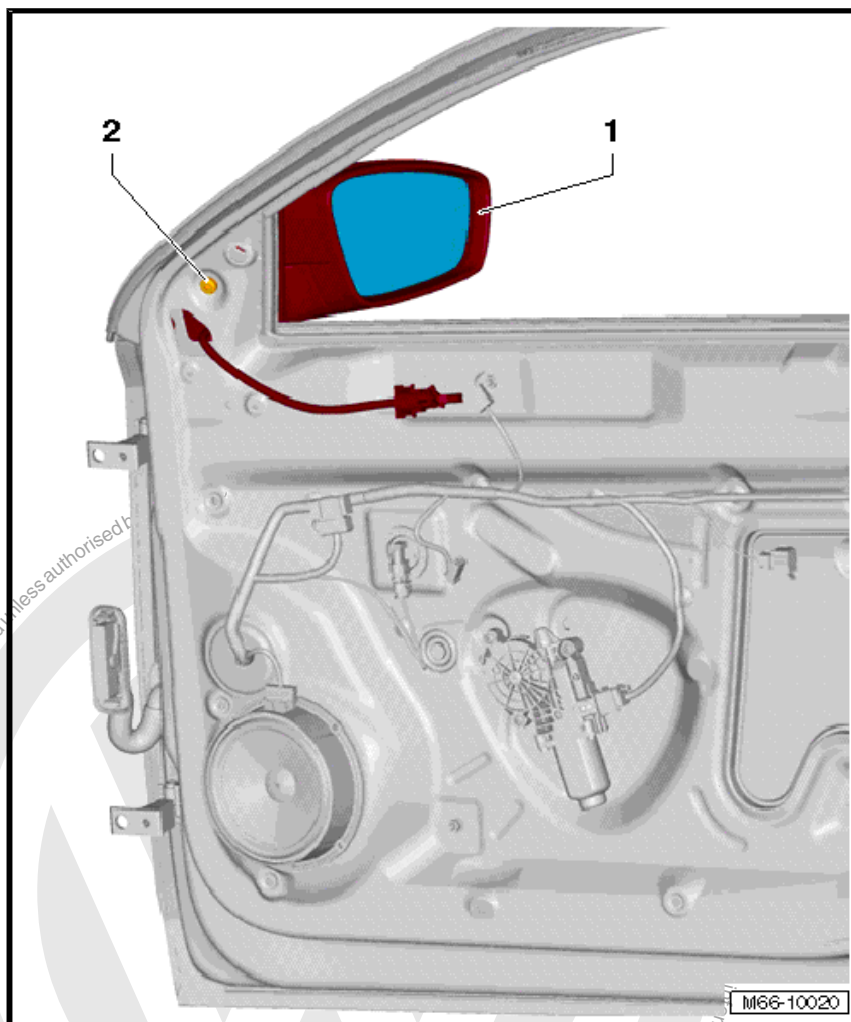


2.8.2 Installing



Carry out following work:

- Check that the foam part -4- is correctly installed in the door.
- Thread cables for operating the exterior mirror -3- through opening in door.
- Push exterior mirror -1- into window channel -2- from below -arrow a- and press the lower part onto the door -arrow b-.



- Screw in and tighten bolt -2- for exterior mirror -1-.
- Specified torque for bolt -2-: 8 Nm.
- Attach connector (if there is one) for electric mirror heater.
 - Install front door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trims .

2.9 Removing and installing exterior mirror (electrical operation)

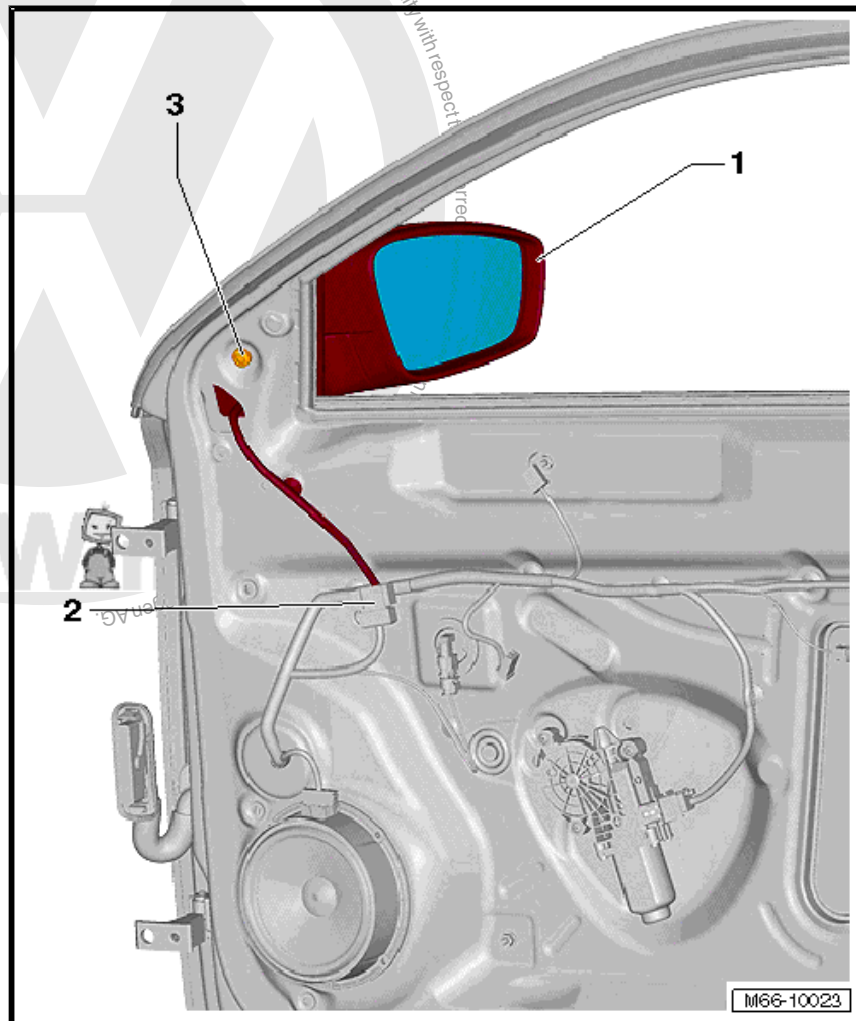


Note

The removal and installation sequence is only for the right exterior mirror. Removal and installation of the left exterior mirror are similar.

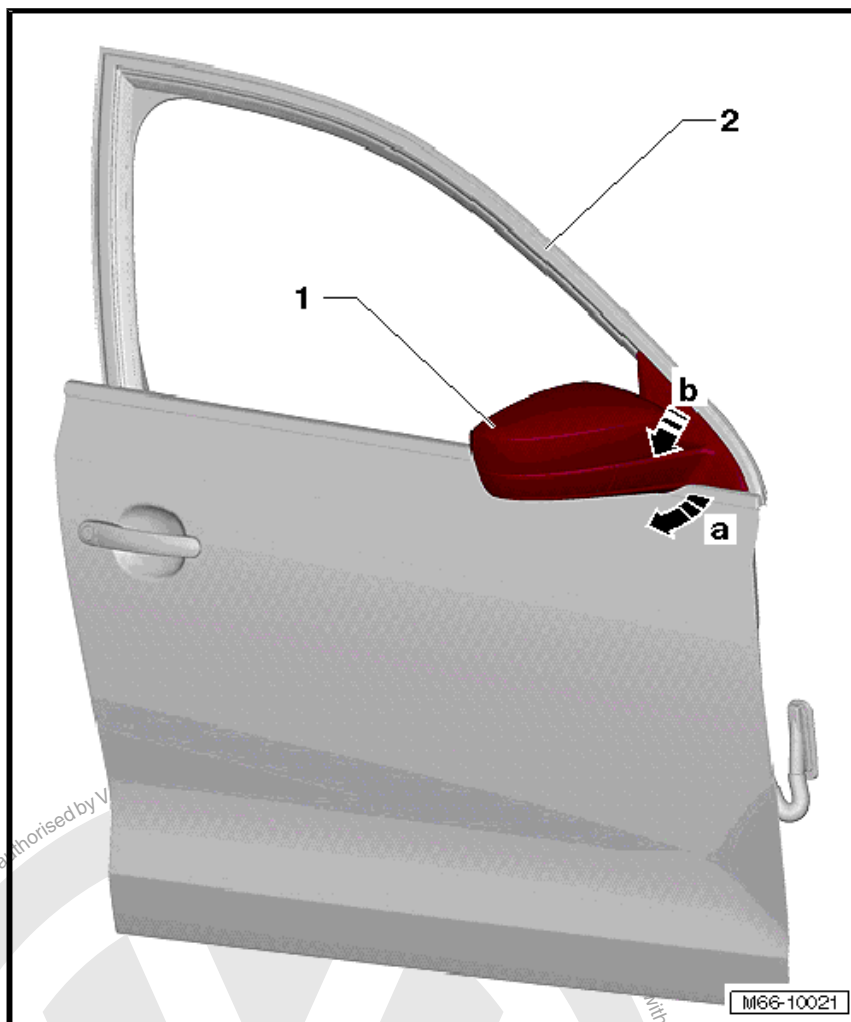


2.9.1 Removing



Carry out following work:

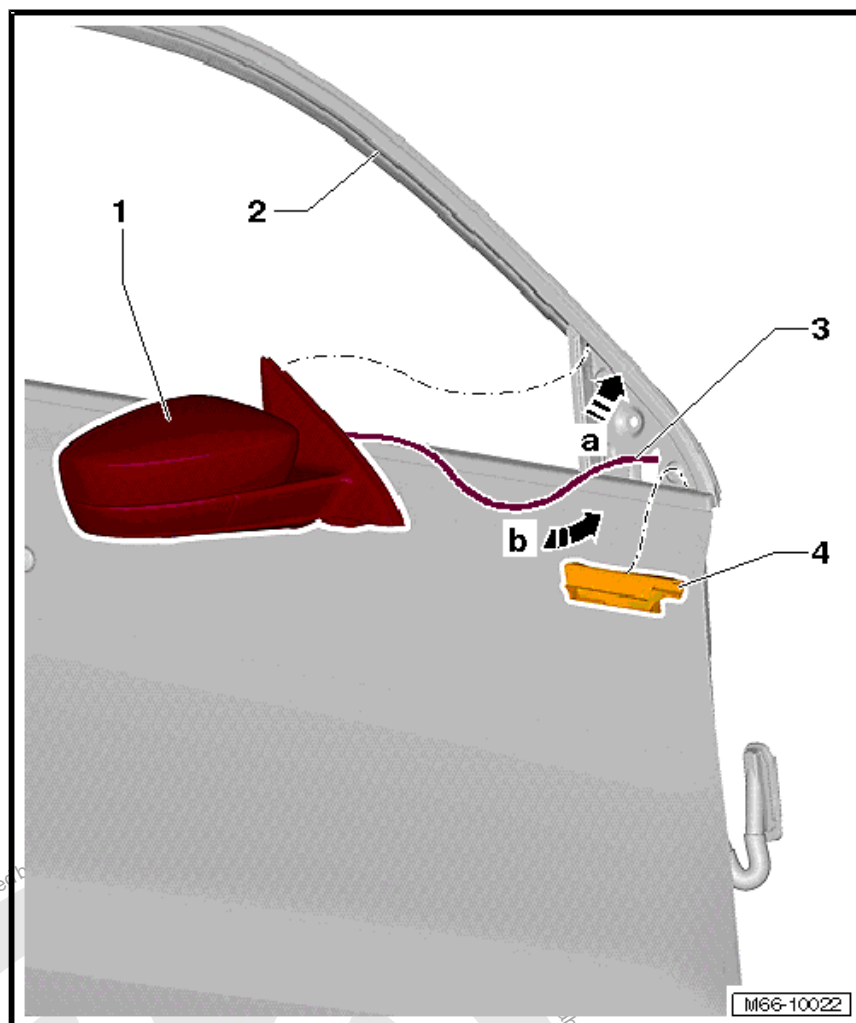
- Removing front door trim ⇒ General body repairs, interior;
Rep. gr. 70 ; Door trim .
- Detach connector -2- for exterior mirror -1-.
- Undo bolt -3- for exterior mirror -1-.



- Swivel lower part of exterior mirror -1- away from the door a little -arrow a- and pull it downwards out of the window channel -2- -arrow b-.
- Thread electric cable through hole in door and remove exterior mirror -1-.

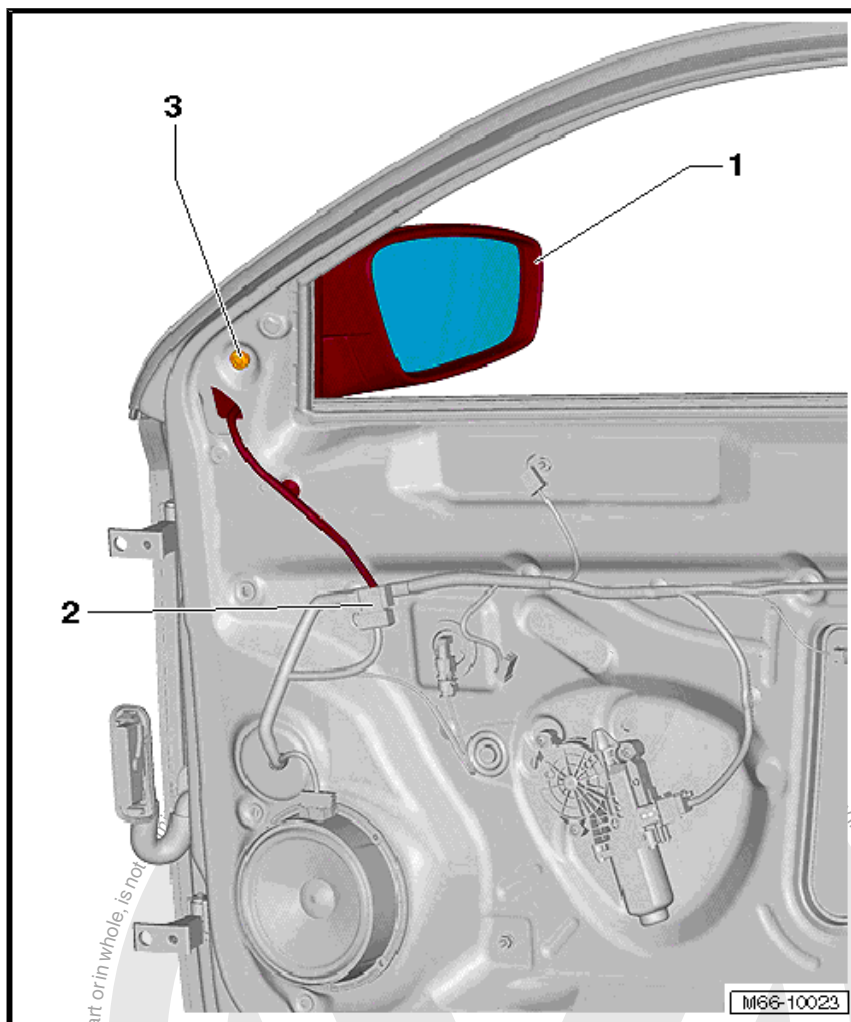


2.9.2 Installing



Carry out following work:

- Check that the foam part -4- is correctly installed in the door.
- Thread electric cable for exterior mirror -3- through opening in door.
- Push exterior mirror -1- into window channel -2- from below -arrow a- and press the lower part onto the door -arrow b-.



- Screw in and tighten bolt -3- for exterior mirror -1-.
- Specified torque for bolt -3-: 8 Nm.
- Connect connector -2- for exterior mirror -1-.
 - Install front door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Door trims .

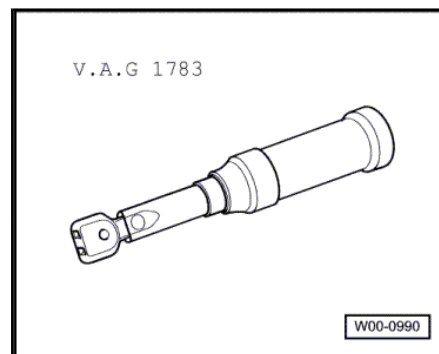


3 Radiator grille

3.1 Tools

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-



3.2 Removing and installing radiator grille

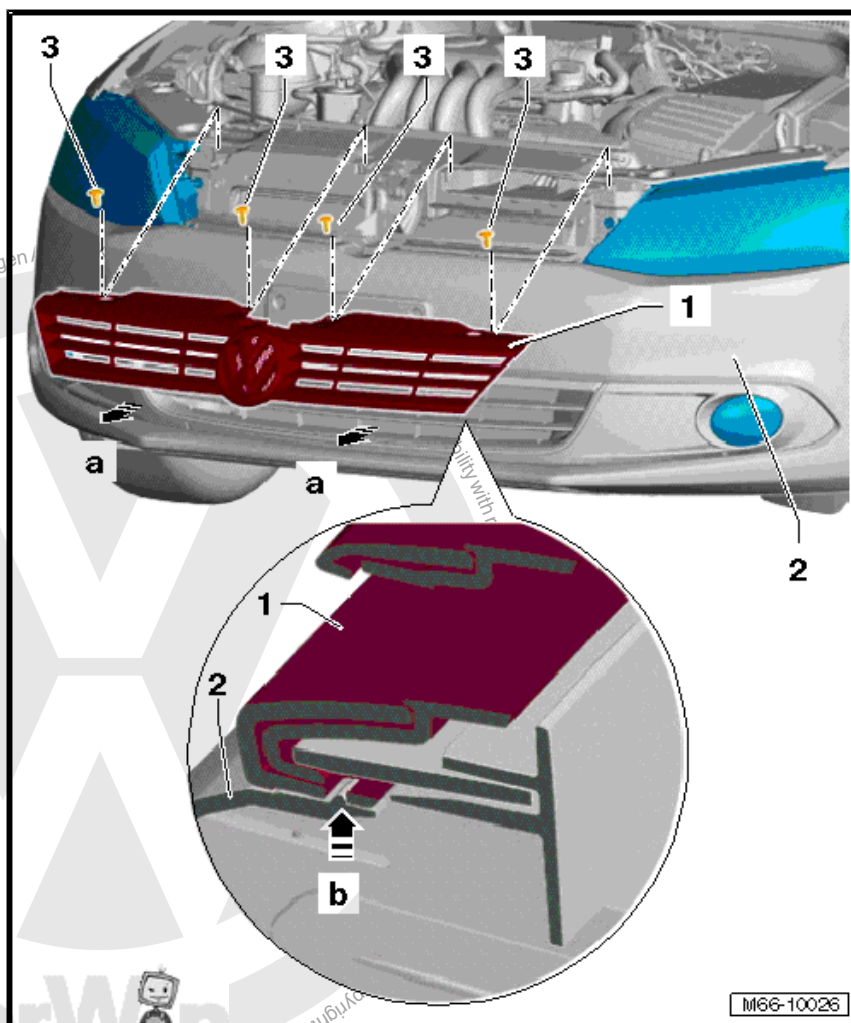


Note

- ◆ *The description applies to all models.*
- ◆ *Only optical differences exist depending on model.*



3.2.1 Removing

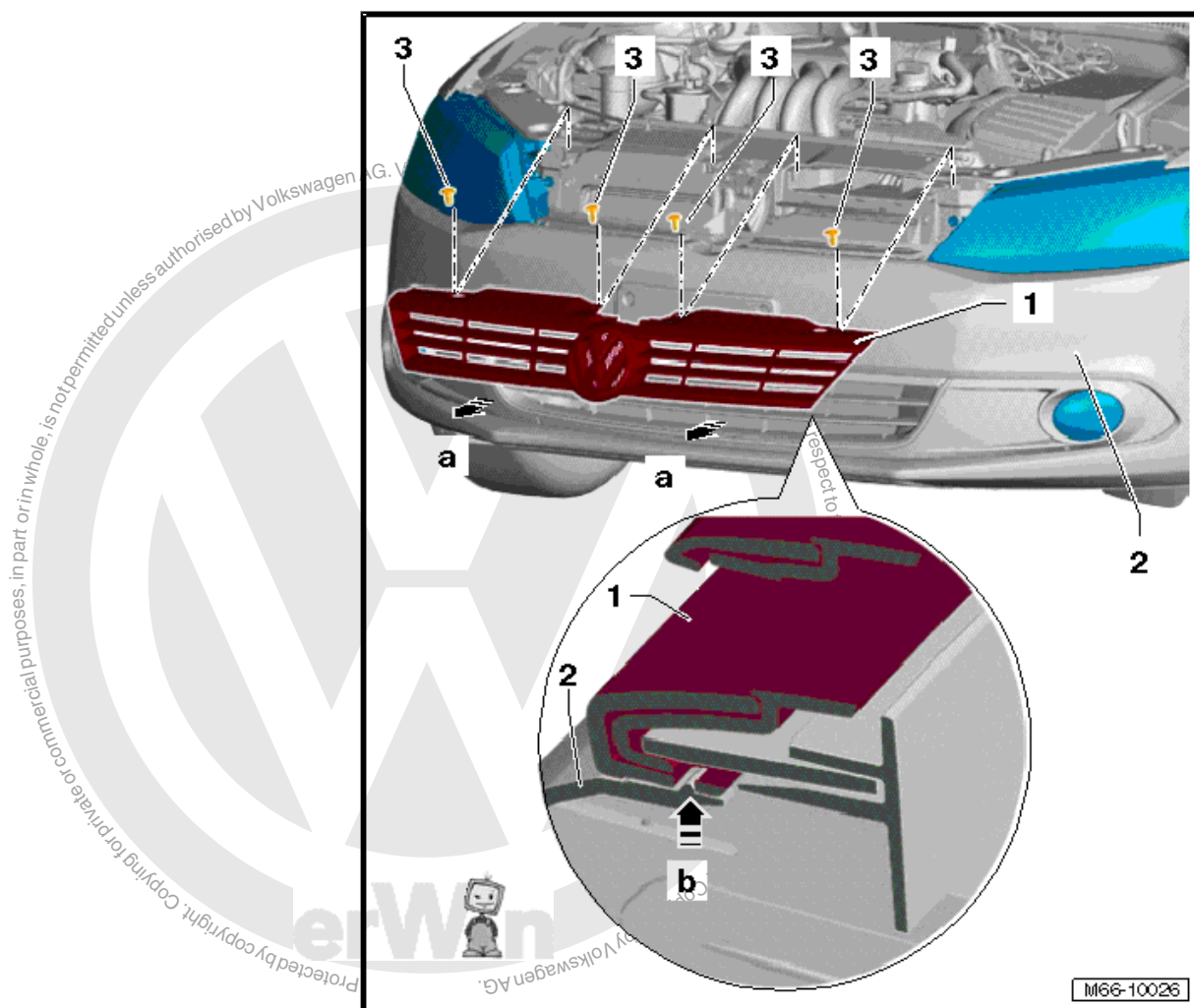


Carry out following work:

- Remove bolts -3-.
- Pull radiator grille -1- out of front bumper cover -2- in direction of -arrow a-.



3.2.2 Installing



Carry out following work:

- Push radiator grille -1- into front bumper cover -2-.
- With slight pressure, engage radiator grille -1- -arrow b- in front bumper cover -2-.



Note

Align radiator grille -1- if necessary.

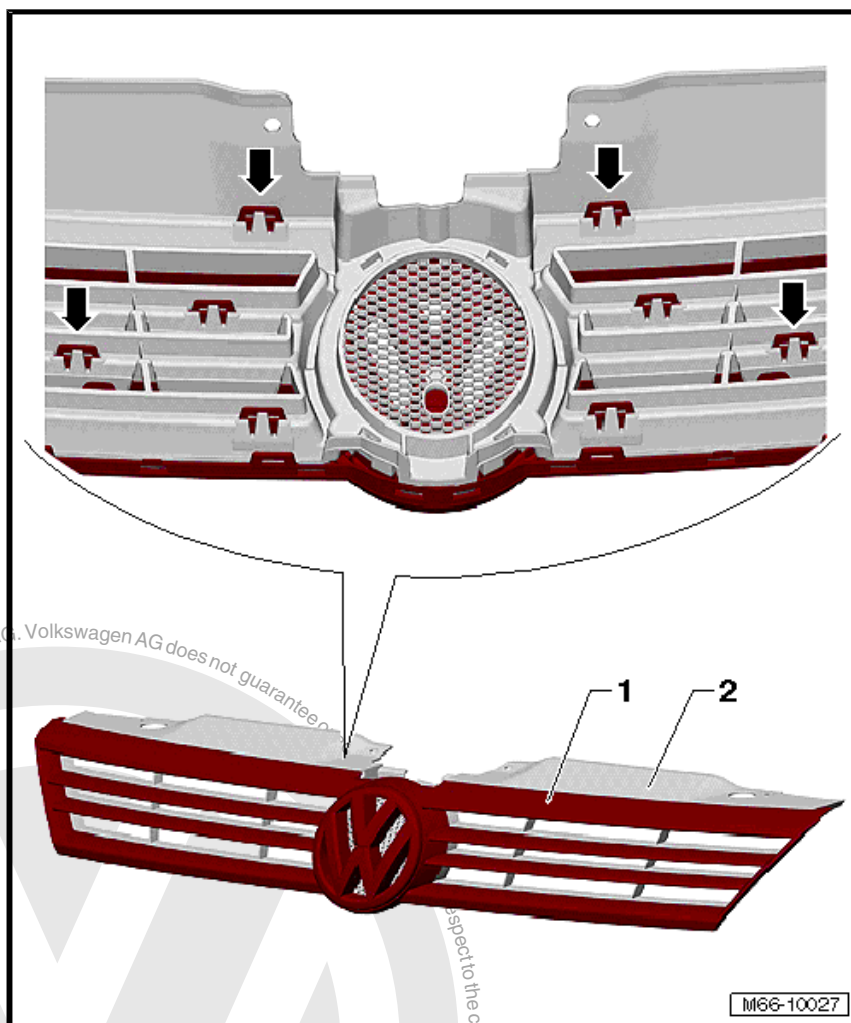
- Fit bolts -3- and tighten them.

Specified torque for bolts -3-: 2 Nm.



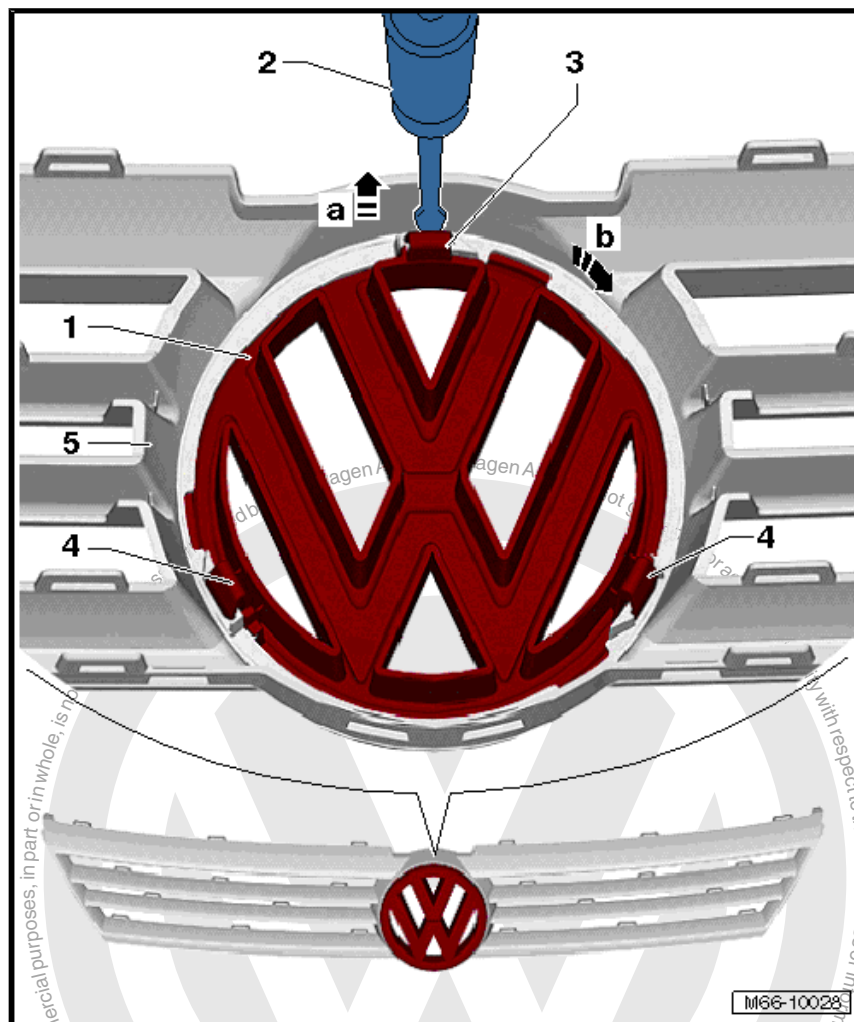
3.3 Removing and installing emblem

3.3.1 Removing



Carry out following work:

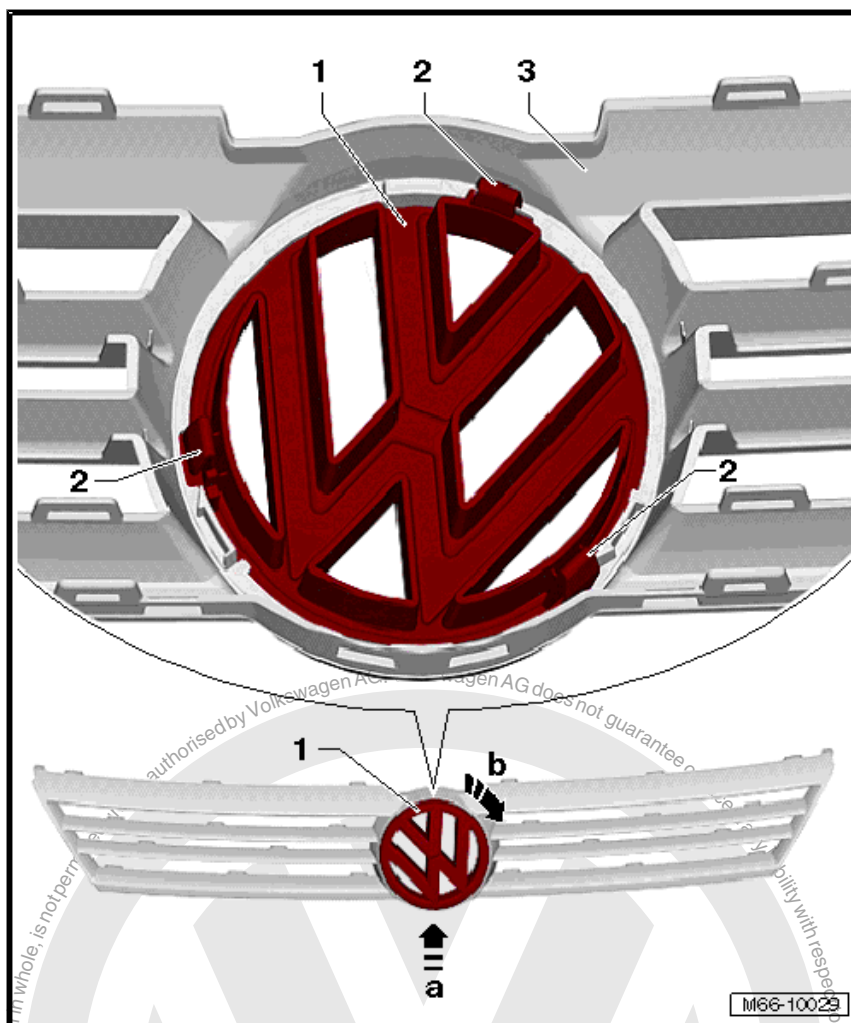
- Remove radiator grille ➔ [page 261](#) .
- Disengage all locking hooks -arrows- of the trim cover with VW emblem -1-.
- Remove trim cover with VW emblem -1- from support -2-.



- Disengage upper locking hook -3- using a screwdriver -2- -arrow a-.
- Disengage other locking hooks -4- in the same way and turn VW emblem -1- in -direction of b-.
- Remove VW emblem with locking hooks -3- and -4- through the recesses in the trim cover -5-.

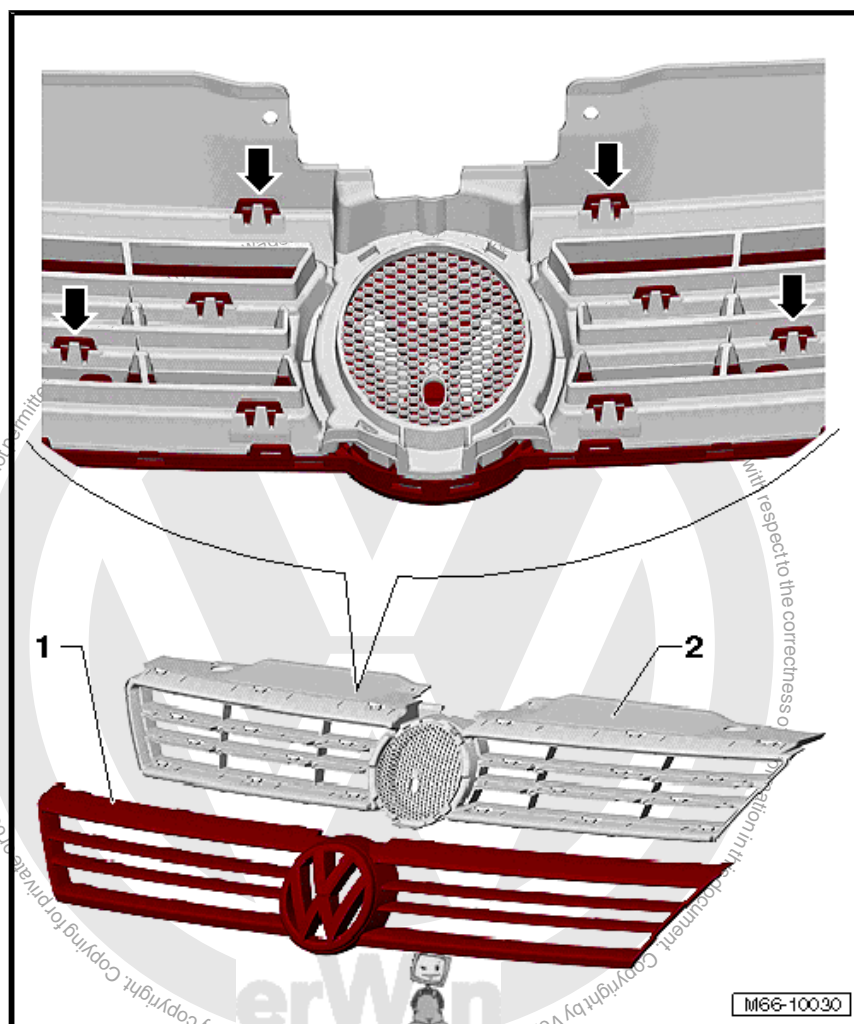


3.3.2 Installing



Carry out following work:

- Push VW emblem -1- with locking hooks -2- into recesses in trim cover -3- -arrow a-.
- Turn VW emblem -1- in -direction of arrow b- until the locking hooks -2- engage with the trim cover -3-.



- Push trim cover with VW emblem -1- onto support -2-.
- Press trim cover with VW emblem -1- onto support -2- until all locking hooks -arrows- engage.
- Install radiator grille ➔ [page 261](#) .

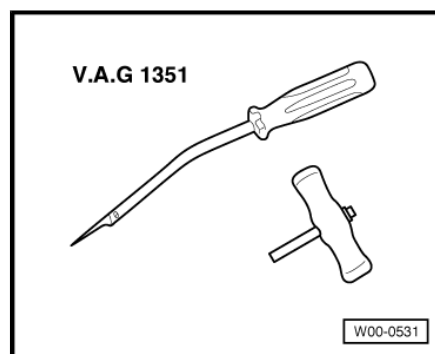


4 Rear spoiler

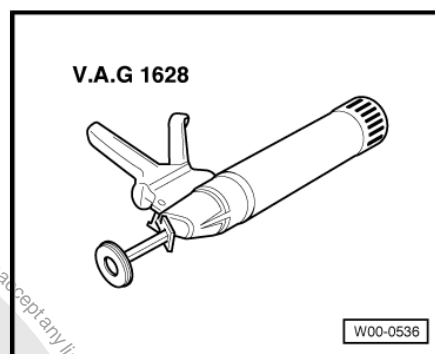
4.1 Removing and installing rear spoiler

Special tools and workshop equipment required

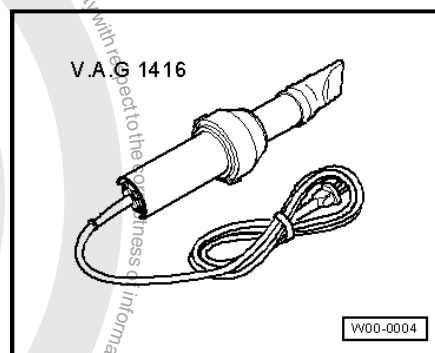
- ◆ Pull handle -V.A.G 1351/-



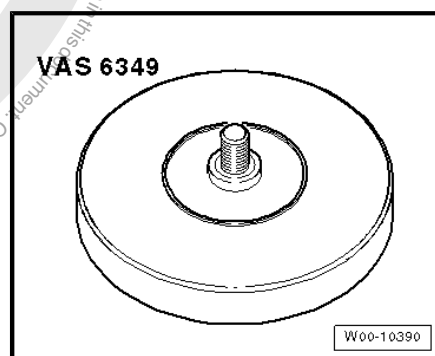
- ◆ Cartridge gun -V.A.G 1628-



- ◆ Hot air blower -V.A.G 1416-



- ◆ Adhesive strip remover -VAS 6349-





Materials



Note

Part numbers of the materials ⇒ *Electronic parts catalogue "ET-KA"*

- ◆ 1-component glass adhesive ^{1) 2) 3)}
- ◆ Activator ¹⁾
- ◆ Glass primer/paint primer ¹⁾
- ◆ Cleaning solution ¹⁾
- ◆ Primer applicator ¹⁾
- ◆ Adhesive remover ¹⁾
- ◆ Cutting cord

¹⁾ Observe instructions for use on the information sheet provided by the manufacturer.

²⁾ Observe minimum curing period ⇒ [page 273](#) .

³⁾ Heat according to manufacturer's instructions, using cartridge heater -V.A.G 1939A- .

Removing



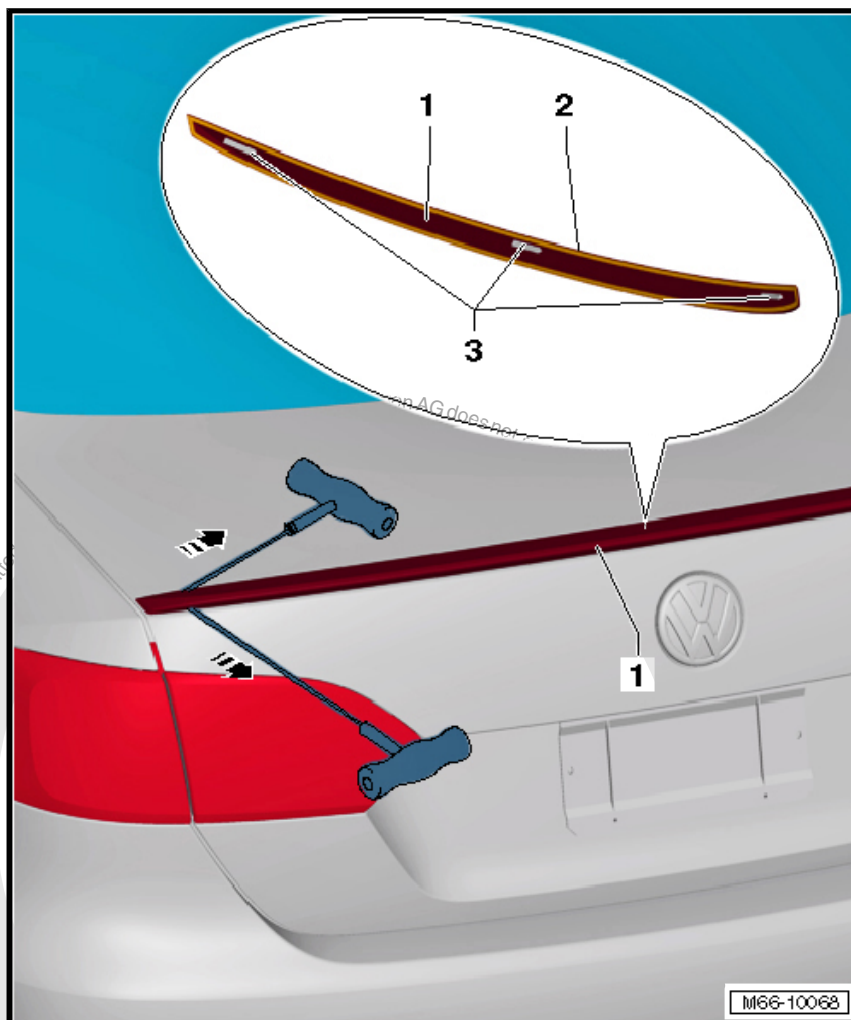
Caution

When the adhesive beads of the rear spoiler are cut through, it is not permissible to use cutting wire due to the risk of damage to the painted areas.



Note

- ◆ *Clean dirt from all joints so that no paintwork is damaged when rear spoiler is removed.*
- ◆ *Mask of adjoining paintwork using adhesive tape to prevent damage.*



Carry out following work:

- Heat adhesive tape -2- on rear spoiler -1- with hot air blower -V.A.G 1416- .
- Carefully detach adhesive tape between rear lid and rear spoiler (e.g. with a plastic wedge).
- Pull cutting cord in under rear spoiler -1- at side.
- Secure a pull handle -V.A.G 1351/1- to both ends of the cutting cord..
- Cut through adhesive beads -3- on rear spoiler -1- with “sawing” motions.
- Remove rear spoiler from rear lid.

Installing

Preparing rear spoiler and rear lid for bonding

If the undamaged rear lid and/or undamaged rear spoiler is re-used

- Replace double-sided adhesive tape on rear spoiler with new double-sided adhesive tape (⇒ Electronic parts catalogue “ETKA”).



- Remove any adhesive residue of double-sided adhesive tape on rear lid with adhesive strip remover -VAS 6349- .
- Cut back the remains of the adhesive sealing material to approx. 2 mm shortly before installing the parts, without damaging the paintwork.

The cut surfaces do not require additional cleaning.



Note

The remaining material is required as a base for the new adhesive sealing material.

If a new rear lid is used

- Place rear spoiler on rear lid and mark the mounting position, then remove rear spoiler again.
- Clean marked bonding surface with cleaning solution (⇒ Electronic parts catalogue "ETKA").



Caution

Take great care to ensure that glass/paint primer is not applied outside the marked area. If glass/paint primer is applied outside the marked area, it can be removed up to approx. 1 minute after application of primer with a lint-free cloth and cleaning spirit. After this time, cleaning is no longer possible because the glass/paint primer starts to adhere to the paint.

- Prime marked bonding surfaces for 1K glass adhesive with glass/paint primer (⇒ Electronic parts catalogue "ETKA").
- Drying time 10 minutes

If a new rear spoiler is used

- Clean bonding surfaces with cleaning solution (⇒ Electronic parts catalogue "ETKA").



Caution

Take great care to ensure that glass/paint primer is not applied beyond the bonding surfaces. If glass/paint primer is applied outside the bonding areas, it can be removed up to approx. 1 minute after application of primer with a lint-free cloth and cleaning spirit. After this time, cleaning is no longer possible because the glass/paint primer starts to adhere to the paint.

- Prime bonding surfaces for 1K glass adhesive with glass/paint primer (⇒ Electronic parts catalogue "ETKA").
- Drying time 10 minutes

Instructions for applying double-sided adhesive tape

- ◆ If the rear spoiler is being installed for first time on a newly painted surface, the procedure described in ⇒ Workshop manual "Paint"; ⇒ Paintwork repairs; ⇒ Paint finish; ⇒ Mouldings & Films must be followed.
- ◆ If the rear spoiler is removed and reinstalled, only use the adhesive remover ⇒ Electronic parts catalogue "ETKA" to remove residual adhesive of adhesive tape.



- ◆ Remove any existing adhesive residue of adhesive tape using adhesive strip remover -VAS 6349- .
- ◆ Ensure that surfaces to be bonded are free of dust and grease.
- ◆ Glue rear spoiler on immediately after cleaning.
- ◆ Remove protective foil just before mounting the rear spoiler.
- ◆ Working temperature is approx. 21 °C.

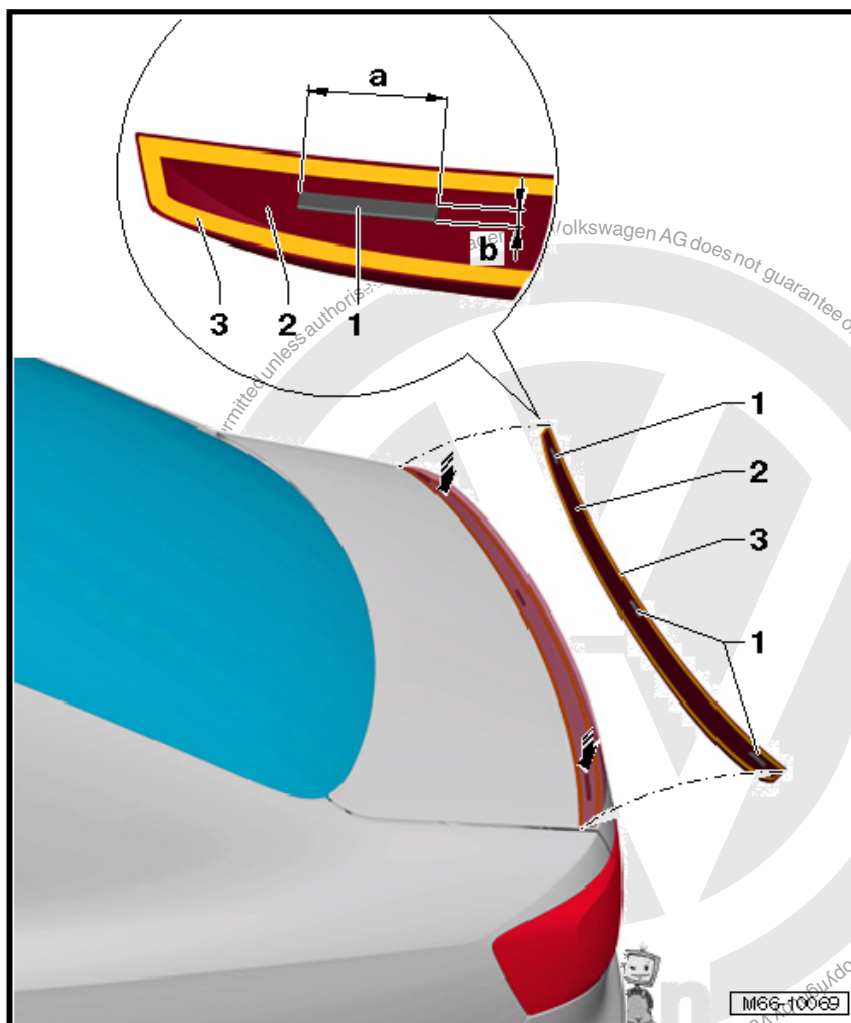
Carry out following work:



WARNING

Make sure that the correct materials are used for the corresponding stages of work.

- Prepare rear spoiler and rear lid for bonding ⇒ [page 270](#)
- Observe instructions for applying double-sided adhesive tape ⇒ [page 271](#) .



- Apply 1K glass adhesive -1- to rear spoiler -2- using cartridge gun -V.A.G 1628- .



- ◆ Length of adhesive beads -1-: 50 mm (dimension -a-).
- ◆ Width of adhesive bead -1-: 6.5 mm (dimension -b-).
- ◆ Height of adhesive bead -1-: 7 mm.
- Pull off protective foil of double-sided adhesive tape -3- on left and right on rear spoiler -2-.
- With the help of a second mechanic, place rear spoiler -2- on rear lid and align rear spoiler.
- Press left and right outer sides down onto rear lid -arrows- and simultaneously pull off remaining protective foil of double-sided adhesive tape -3- on rear spoiler -2-.
- Press rear spoiler -2- on evenly along the entire length.
- Observe minimum curing period ➔ [page 273](#) .

Minimum curing period



WARNING

◆ *The vehicle is safe to use and can be operated only after the minimum curing period is completed.*

	Adhesive sealant	Minimum curing period in hours
Rear spoiler onto rear lid	1K glass adhesive ➔ Electronic parts catalogue "ETKA"	3



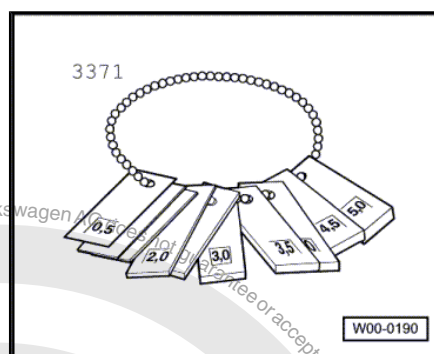
5 Mouldings and trims

5.1 Water deflector

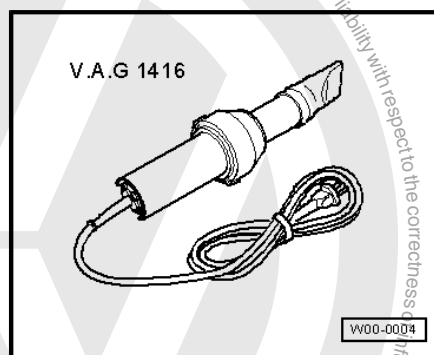
5.1.1 Tools

Special tools and workshop equipment required

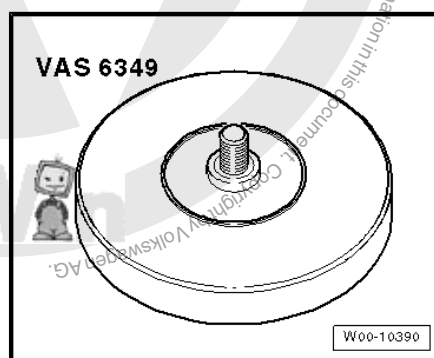
- ◆ Setting gauge -3371-



- ◆ Hot air blower -V.A.G 1416-



- ◆ Adhesive strip remover -VAS 6349-





5.1.2 Assembly overview



Note

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

1 - Water deflector

2 - Retaining strip



Caution

Only remove and install with windscreen removed as otherwise windscreen will become damaged.

3 - Pop rivet

☐ Qty. 5.

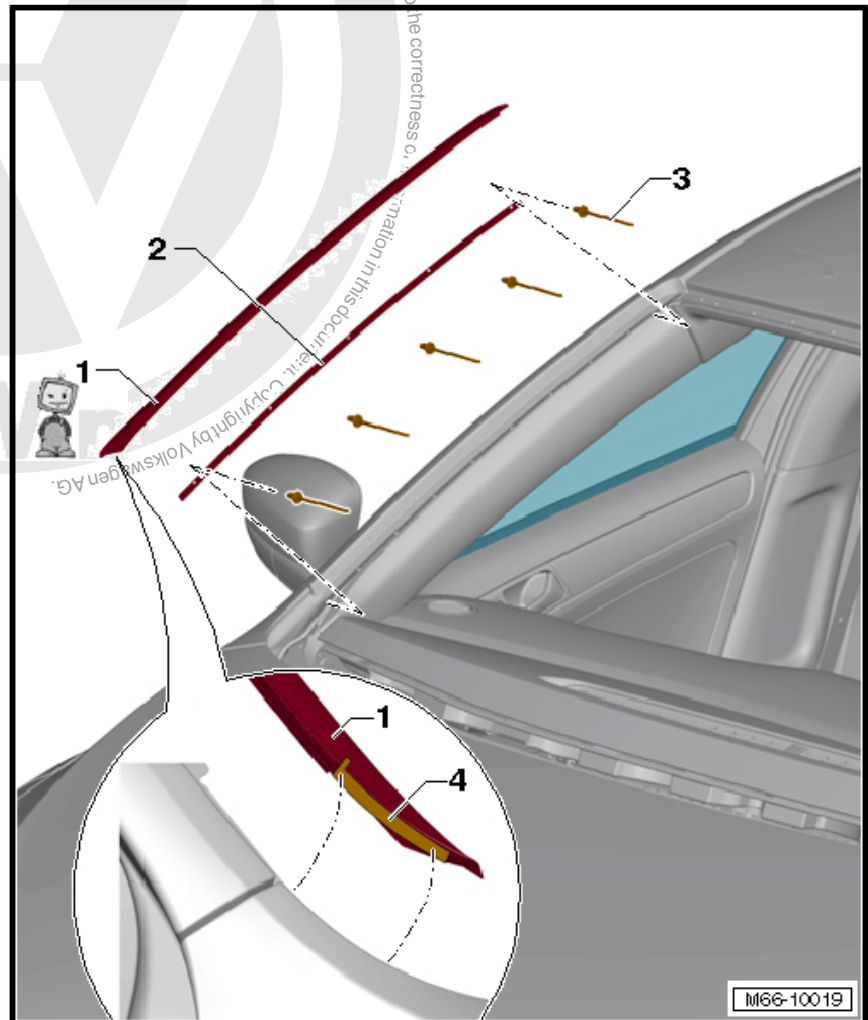
☐ Drill out pop rivets to remove retaining strip.

☐ To install retaining strip, install pop rivets using rivet pliers (e.g. -VAS 5072-)

4 - Adhesive tape

☐ Part of water channel

☐ Only remove protective film just before bonding

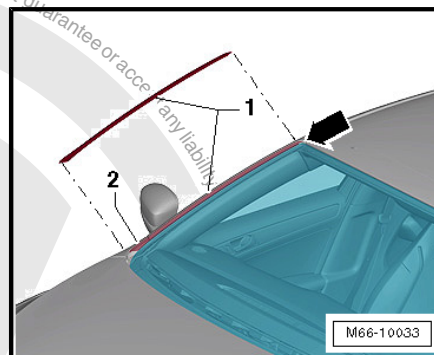




5.1.3 Removing

Carry out following work:

- Lever out water channel -1- from retaining strip, starting from top -arrow-.
- Gently heat up adhesive tape of retaining strip on front wing -2- using hot air gun -V.A.G 1416- and carefully pull off.



5.1.4 Installing

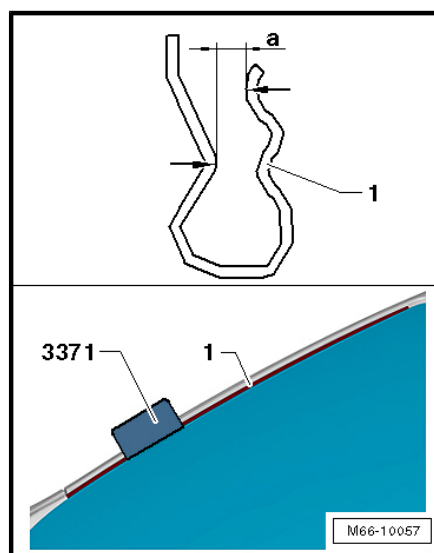
Fitting notes

- ◆ If a water channel is removed and installed, only use adhesive remover -D 002 000 10- to remove any adhesive residue.
- ◆ Remove any existing adhesive residue of adhesive tape using adhesive strip remover -VAS 6349- .
- ◆ Ensure that surfaces to be bonded are free of dust and grease.
- ◆ Bond water channel immediately after cleaning.
- ◆ Remove protective backing immediately before installation.
- ◆ Working temperature is approx. 21°C.

Carry out following work:

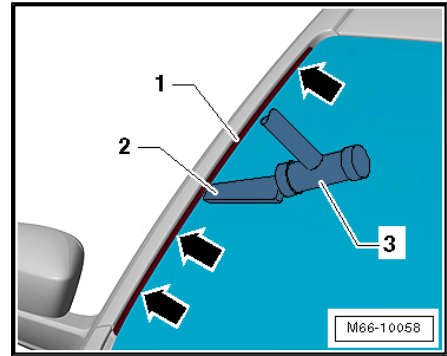
Follow installation instructions ⇒ [page 276](#) .

- Check gap -a- over complete length of retaining strip -1- using gauge -3371- .
- Distance -a- between -arrows-: 0.9...1.1 mm

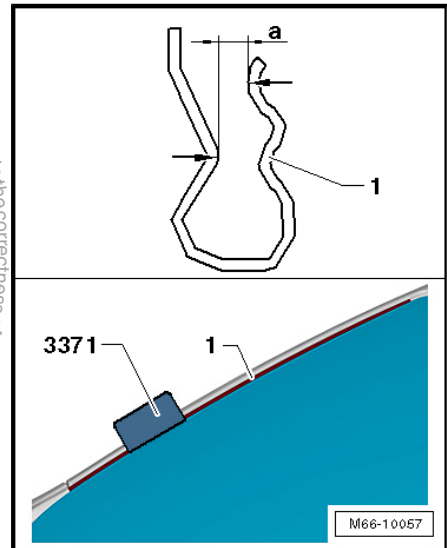




- If the gap at the retaining strip -1- deviates from the specification, the gap -arrows- must be adapted using for example, a plastic wedge -2- and hammer -3-.



- Check gap -a- again over complete length of retaining strip -1-, after making changes, using gauge -3371- .
- Distance -a- between -arrows-: 0.9...1.1 mm



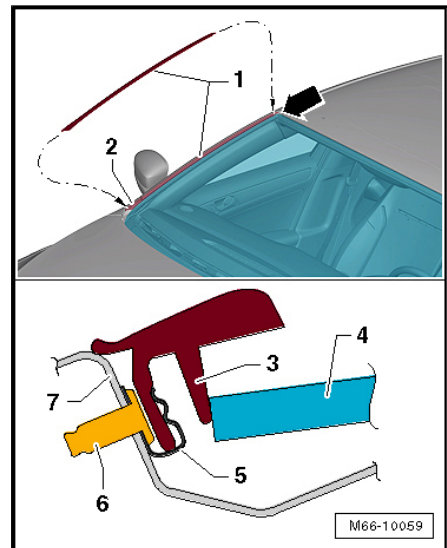
- Press water channel -1- into retaining strip -5-, starting from top -arrow-.



Note

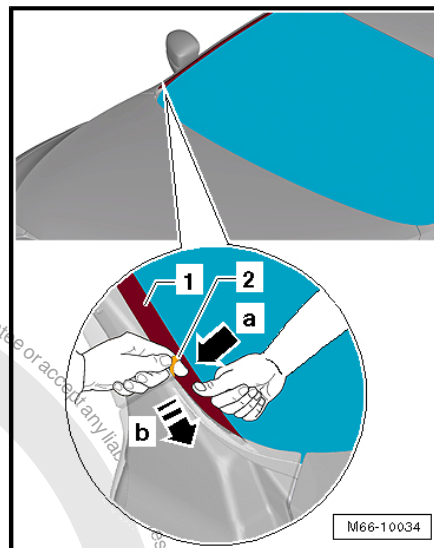
The water channel -1- should not protrude above the edge of the roof (wind noises).

- When doing this, guide water channel lip -3- behind edge of windscreen -4-.
- 6 - Pop rivet
- 7 - Body flange
- Bond adhesive tape of retaining strip on front wing -2- as follows.





- Apply pressure to water channel -1- on inside -arrow a- so that it is easier to remove protective backing from front wing.
- Pull off protective backing -2- in direction of -arrow b- and press water channel onto front wing firmly.





5.2 Assembly overview - sill panel cover



Note

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

1 - Side member cover

☐ Removing

- Unscrew bolts -2- and remove sill panel cover.

☐ Installing

- Check spreader nuts -3- for damage and renew if necessary.

- Locate sill cover, screw bolts -2- in and tighten.

2 - Bolt

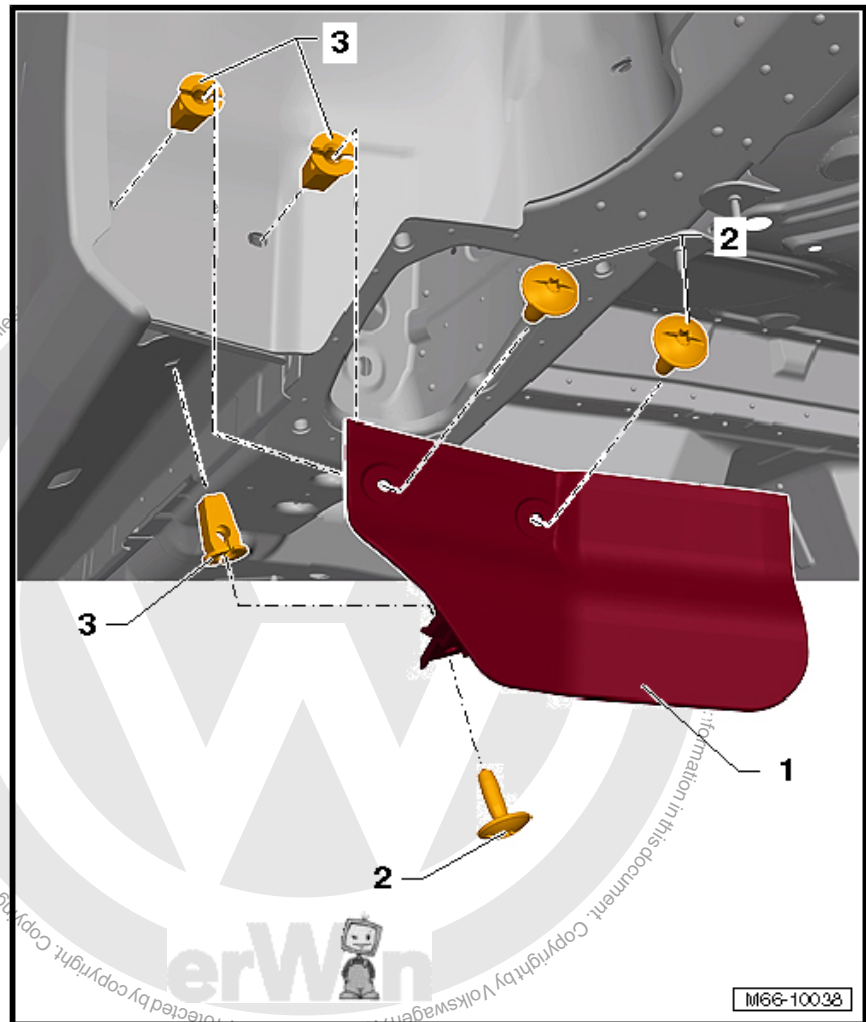
☐ Qty. 3.

☐ Specified torque: 2 Nm

3 - Expanding nut

☐ Qty. 3.

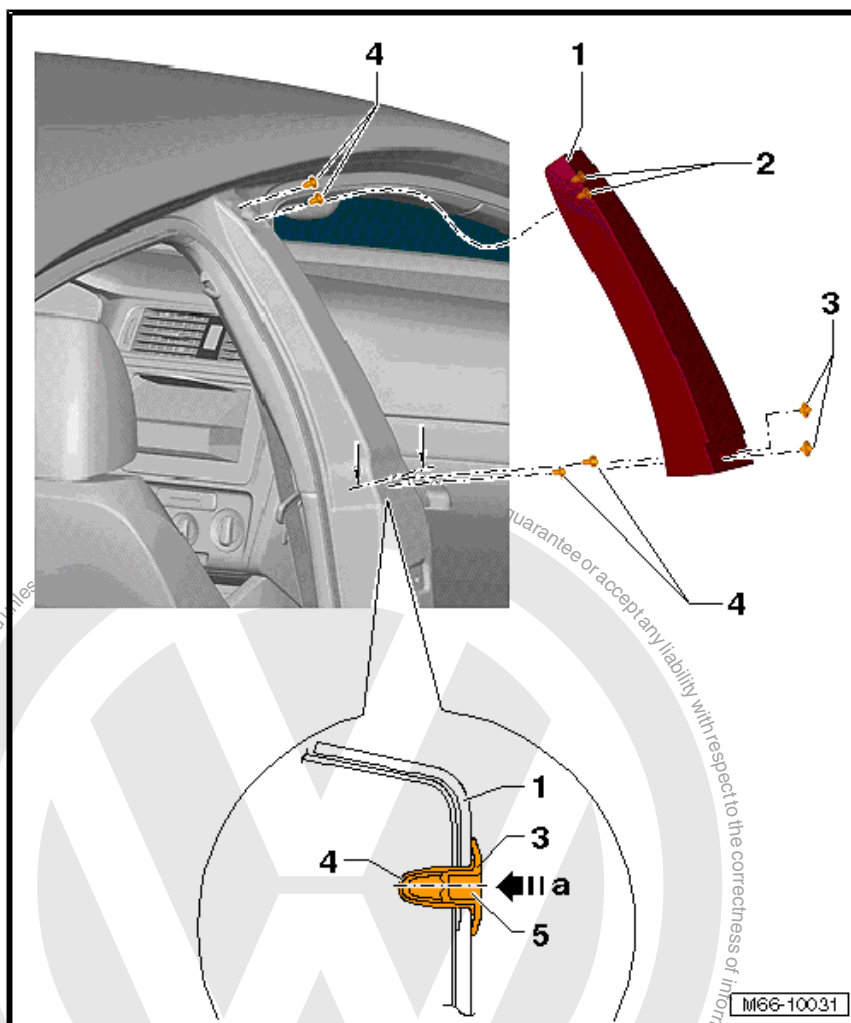
☐ Renew if damaged





5.3 Assembly overview - B-pillar trim

- 1 - B-pillar trim
- 2 - Securing pins
 - Part of trim.
- 3 - Clip
- 4 - Grommet
 - Qty. 4.
- 5 - Spreader rivet





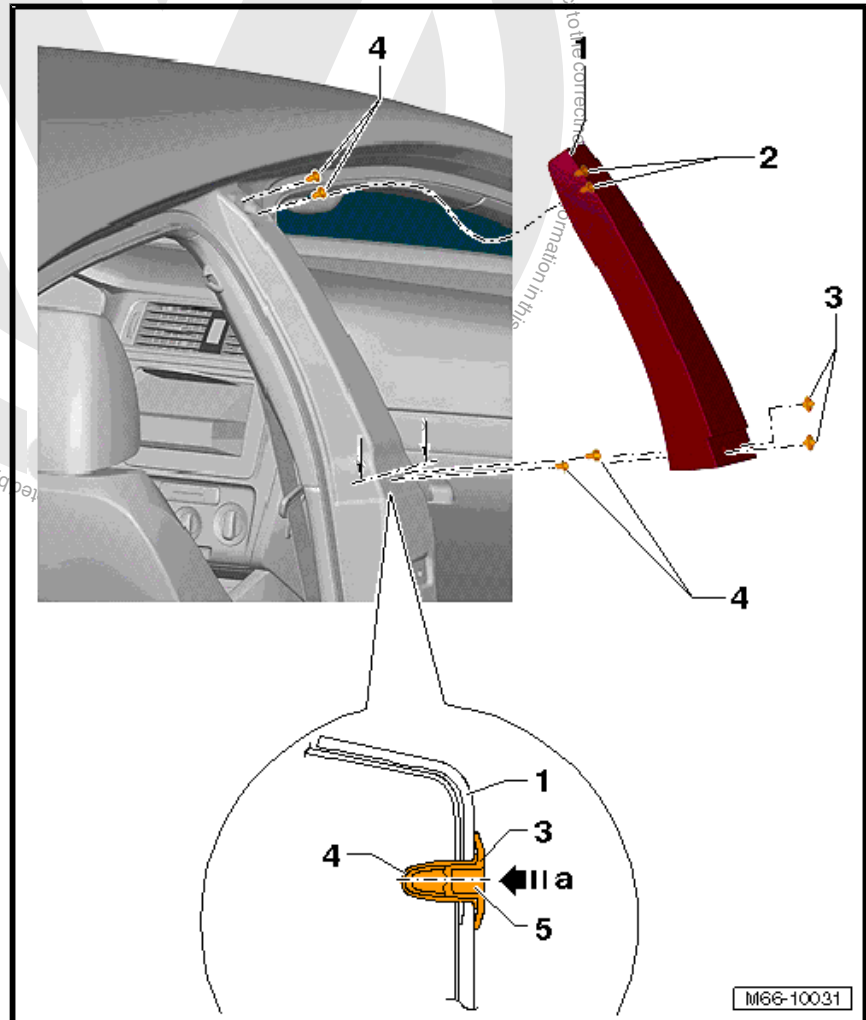
5.4 Removing and installing B-pillar trim

5.4.1 Removing



Note

The trim cannot be removed without being damaged.



Carry out following work:

- Press spreader pins -5- slightly into clips -3- -arrow a-.



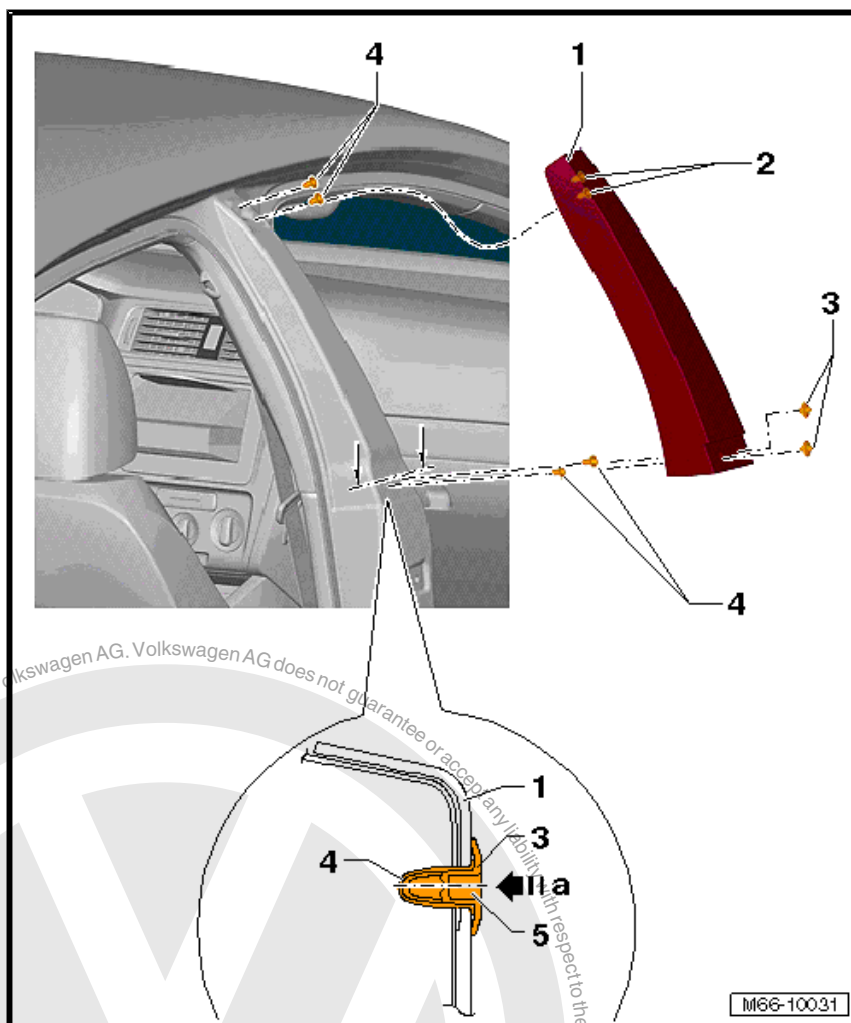
Note

Spreader pins -5- remain in grommets -4-.

- Pull out clips -3-.
- Pull trim cover -1- with securing pins -2- out of grommets.
- Take spreader pins -5- out of grommets -4-.



5.4.2 Installing



Carry out following work:



Note

Check grommets -4- for damage and renew if necessary.

- Place trim -1- against B-pillar.
- Press trim securing pins -2- into grommets -4-.
- Insert clips -3- and press spreader pins -5- into clips -arrow a-.

5.5 Side member extension “GLI”

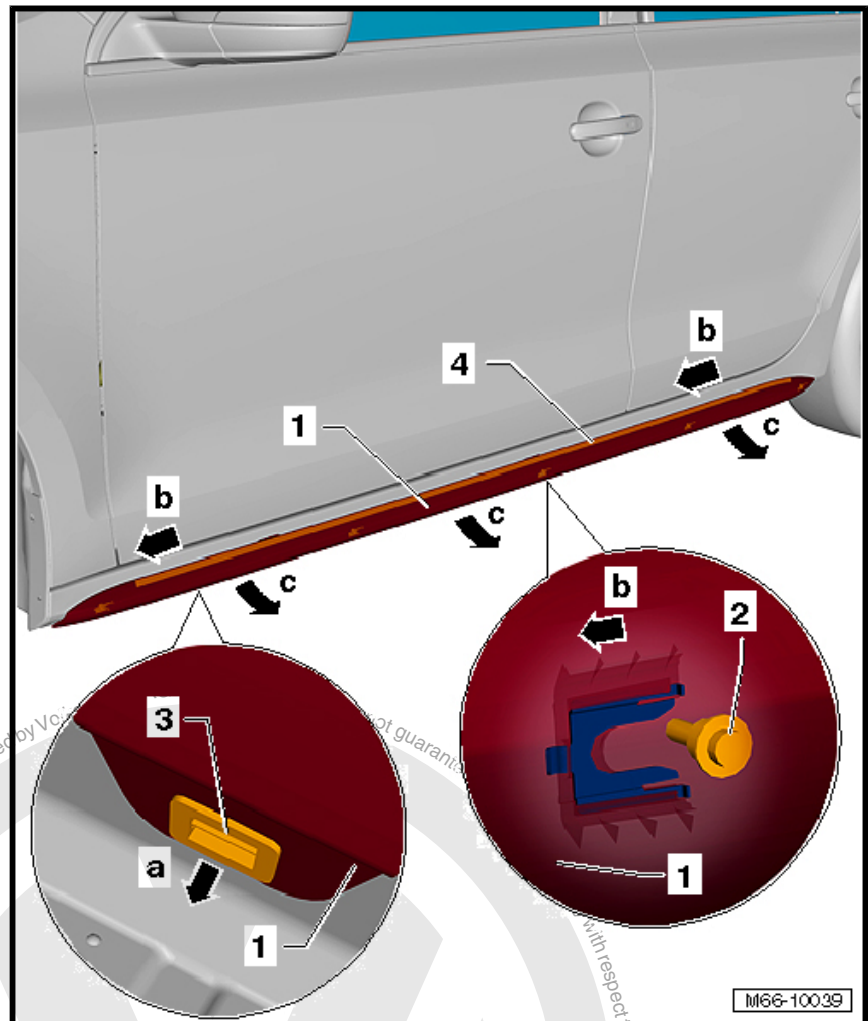


Note

The removal and installation sequence is for the left side member (sill) extension. The removal and installation of the right side member (sill) extension is similar.



5.5.1 Removing



Carry out following work:

- Release locking tabs of clips -3- and remove clips from side member extension -1- as far as stop -arrow a-.
- Heat up adhesive tape -4- on top of side member extension -1- using hot air blower -V.A.G 1416- .
- Carefully remove adhesive tape -4- between side member and side member extension -1- (e.g. with a plastic wedge).
- Push side member extension -1- forwards -arrows b- until it can be removed from securing screws -2- (qty. 5) -arrows c-.

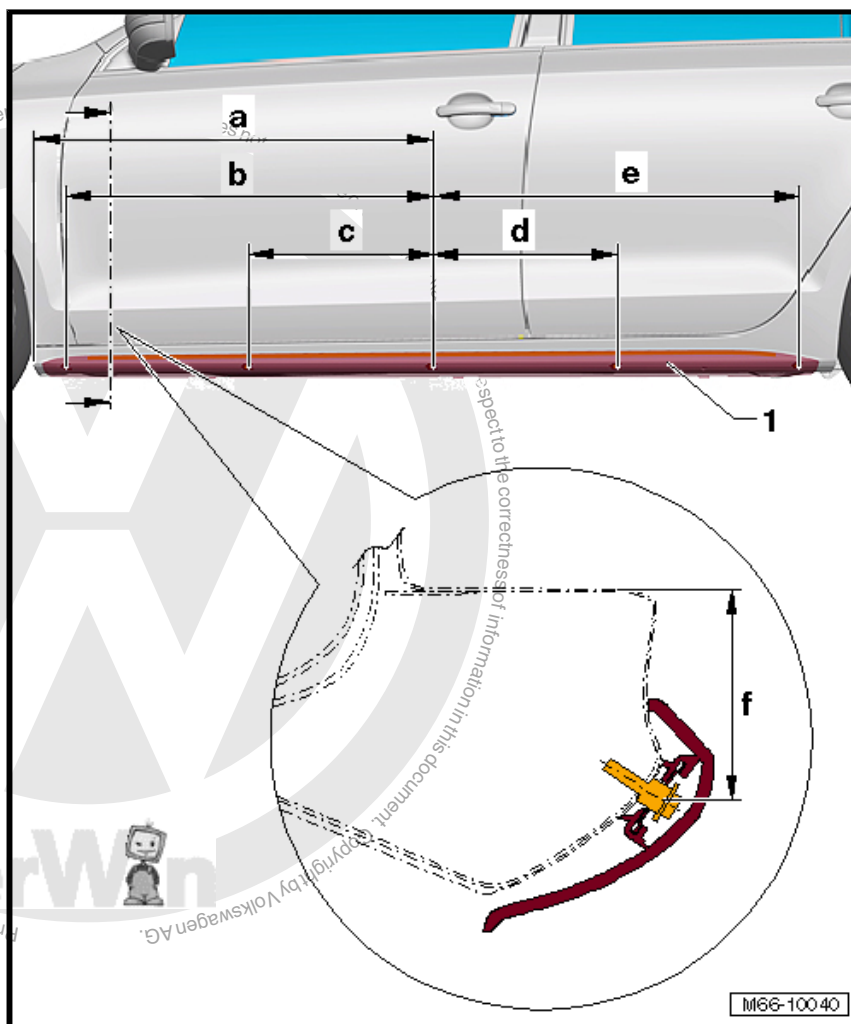


5.5.2 Dimensions for securing screws



Note

- ◆ Screws for side member extension are corrosion-resistant. No secondary treatment is required.
- ◆ If the screw is overtightened it is essential to replace it with a "black" oversize screw.



Carry out following work:

- No holes present for securing screws.
- Measure out required holes for securing screws using table below (➔ [page 285](#)).
- Use punch to centre measured points for holes and pilot-drill holes with 1.5 mm drill bit.



Note

- ◆ *Dimension -a- is measured inclusive of front wheel housing liner; always measure other dimensions -b- to -e- from centre of hole.*
- ◆ *Dimension -f- is measured at centre hole.*

Dimensions for securing screws	
Dimension -a-	= 950 mm
Dimension -b-	= 869 mm
Dimension -c-	= 435 mm
Dimension -d-	= 435 mm
Dimension -e-	= 869 mm
Dimension -f-	= 60 mm

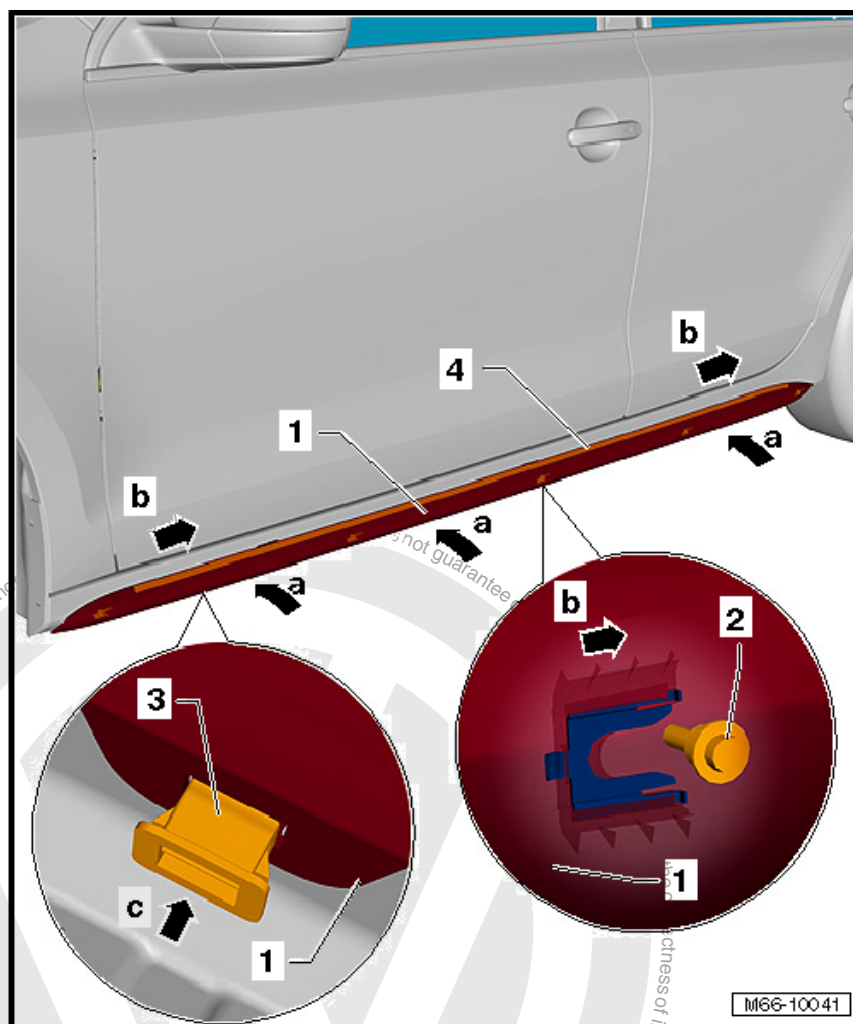
5.5.3 Installing

Fitting notes

- ◆ If side member extension is being installed for first time on new vehicle and newly painted surfaces, procedure in ⇒ Workshop manual "Paint"; ⇒ Paintwork repairs; ⇒ Paint finish; ⇒ Mouldings & Films should be observed.
- ◆ If the side member extension is removed and reinstalled, only use adhesive remover -D 002 000 10- to remove the adhesive remains.
- ◆ Ensure that surfaces to be bonded are free of dust and grease.
- ◆ Bond side member extension immediately after cleaning.
- ◆ Do not remove protective backing until just before you are ready to install side member extension.



- ♦ Working temperature is approx. 21°C.



Carry out following work:

- Holes (qty. 5) for securing screws -2- present.
- Follow installation instructions ➔ [page 285](#) .
- Screw self-tapping securing screws -2- into pilot-drilled holes.

Specified torque for securing screws -2-: 1.2 Nm

- Mate side member extension -1- with openings on rear via securing screws -2- until side member extension is in uniform contact with side member -arrows a-.
- Push side member extension -1- towards rear until it stops against securing screws -2- -arrows b-
- Press clips -3- into side member extension -1- -arrow c- until they engage.
- Remove protective backing on top of side member extension -1- from adhesive strip -4- and press adhesive strip firmly onto side member.

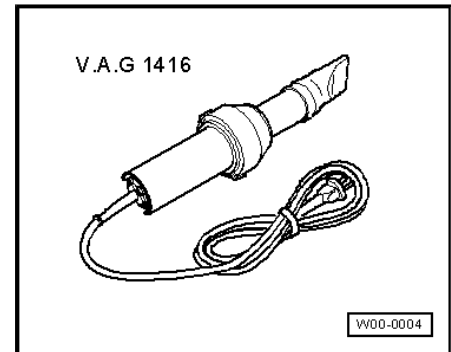


6 Lettering

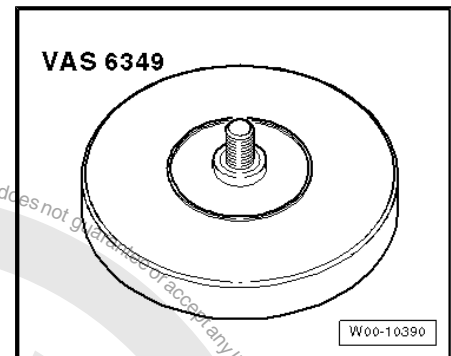
6.1 Tools

Special tools and workshop equipment required

- ◆ Hot air blower -V.A.G 1416-



- ◆ Adhesive strip remover -VAS 6349-



6.2 Installation instructions for lettering and emblems



Note

- ◆ *Lettering cannot be removed without damage.*
- ◆ *Before removing the lettering, heat it with a hot air blower - V.A.G 1416- .*
- ◆ *Only use adhesive remover -D 002 000 10- .*
- ◆ *Ensure that the adhesive surfaces are free of dust and grease.*
- ◆ *Stick on lettering immediately after cleaning.*
- ◆ *Remove protective backing immediately before installation.*
- ◆ *Working temperature is approx. 21°C.*



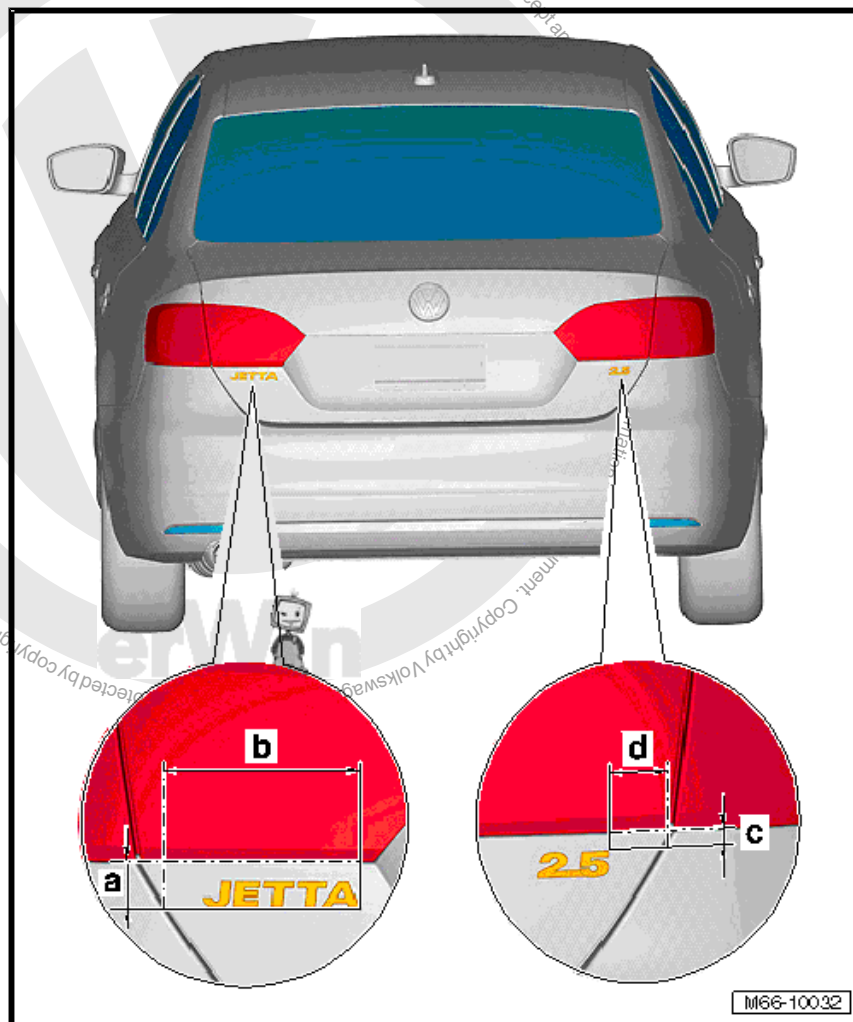
6.3 Lettering dimensions

6.3.1 Lettering for model name and engine designation



Note

When fitting the lettering, observe the fitting notes ➔ [page 287](#).



Dimension -a- = 32 mm

From lower edge of tail light to lower edge of lettering

Dimension -b- = 155 mm

From edge of rear lid to inner edge of lettering

Dimension -c- = 14 mm

From lower edge of tail light to upper edge of lettering

Dimension -d- = 43 mm

From edge of rear lid to outer edge of lettering

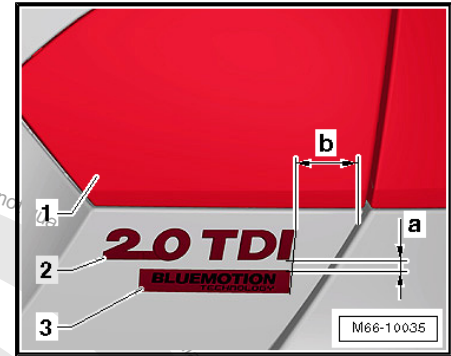


6.3.2 Lettering for additional designation

- 1 - Right tail light in rear lid
- 2 - Designation of engine size
- 3 - Additional designation

Maß a - 8 mm, from lower edge of engine designation to upper edge of additional designation

Maß b - 43 mm, from edge of rear lid to outer edge of lettering

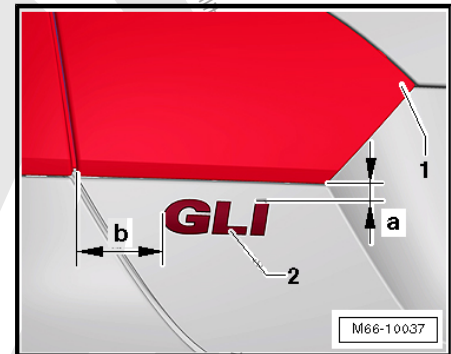


6.3.3 "GLI" lettering

- 1 - Left tail light in rear lid
- 2 - "GLI" lettering

Maß a - 15 mm, from lower edge of tail light to upper edge of lettering

Maß b - 77 mm, from edge of tail light to outer edge of lettering

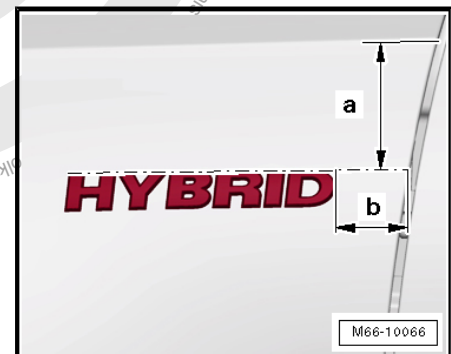


6.3.4 "Hybrid" lettering

Left wing lettering

Dimension -a-: 58 mm, from character line in wing to upper edge of lettering

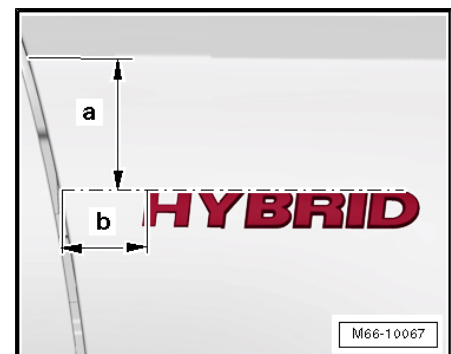
Dimension -b-: 32 mm, from edge of wing to rear edge of lettering



Right wing lettering

Dimension -a-: 58 mm, from character line in wing to upper edge of lettering

Dimension -b-: 35 mm, from edge of wing to rear edge of lettering





Rear lid lettering

1 - Right tail light in rear lid

2 - "Hybrid" lettering

Maß a - 13 mm, from lower edge of tail light to upper edge of lettering

Maß b - 27 mm, from edge of rear lid to outer edge of lettering

