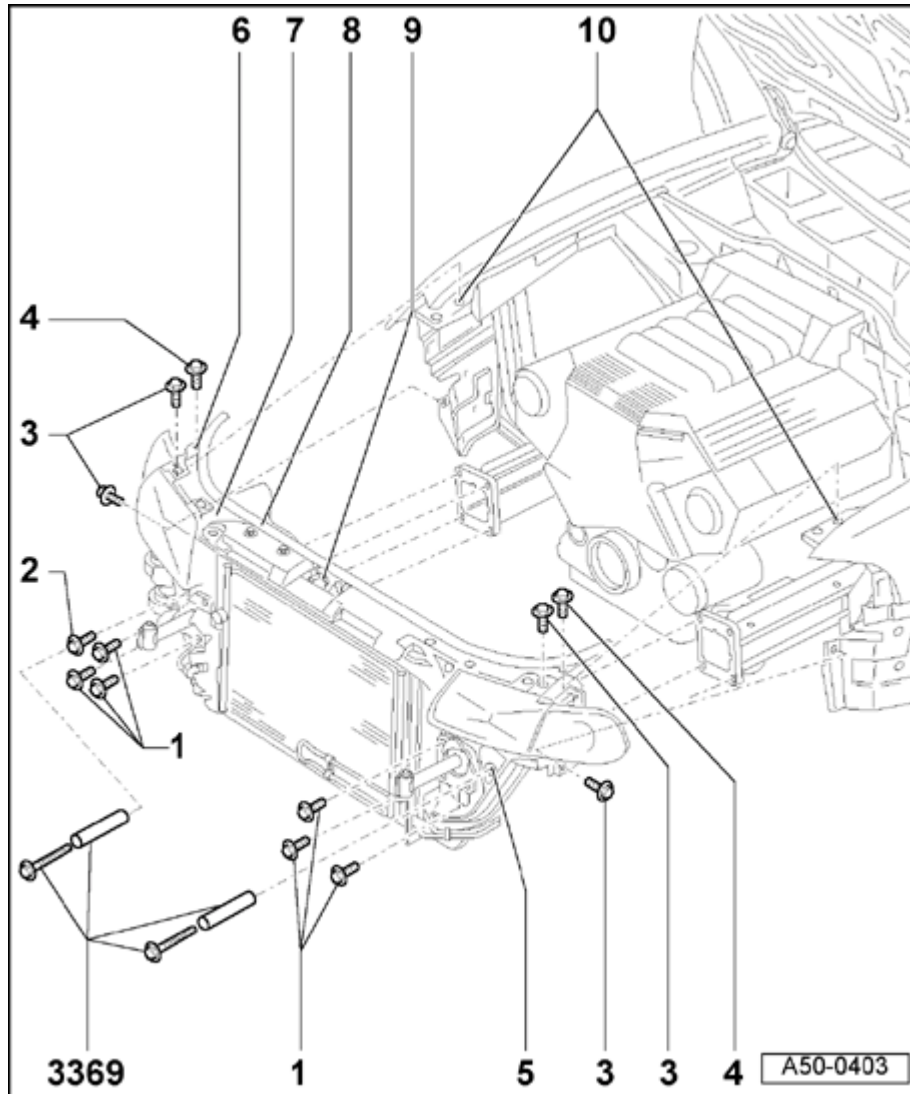




Body, front

Lock carrier with attachments, removing and installing

1 - Hex bolt (6x)

◆ 45 Nm (33 ft lb)

2 - Hex bolt

◆ 45 Nm (33 ft lb)

3 - Hex bolt (4x)

◆ 10 Nm (7 ft lb)

4 - Hex bolts (2x)

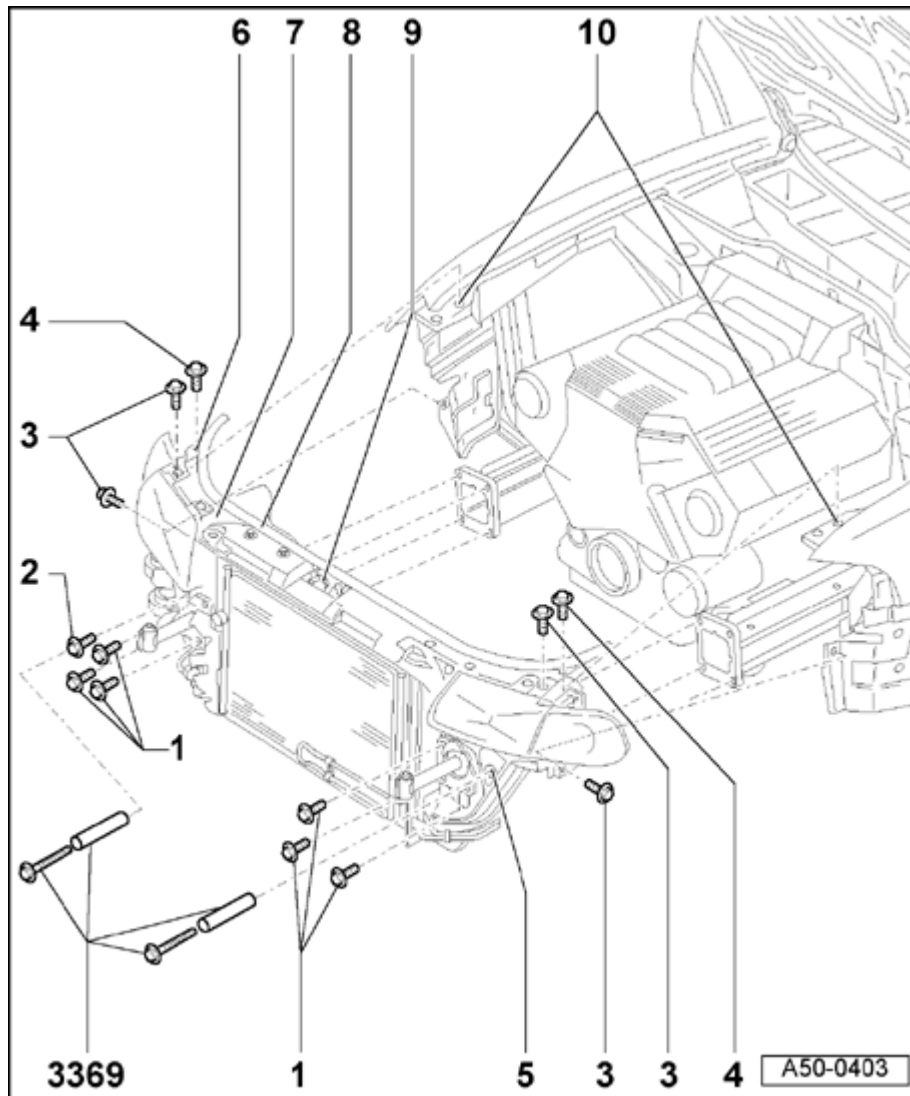
◆ 10 Nm (7 ft lb)

5 - Access hole for special tool

◆ For service position, attach special tool 3369 here

6 - Cowl attachment hole

◆ Attachment for service position



7 - Lock carrier

Removing:

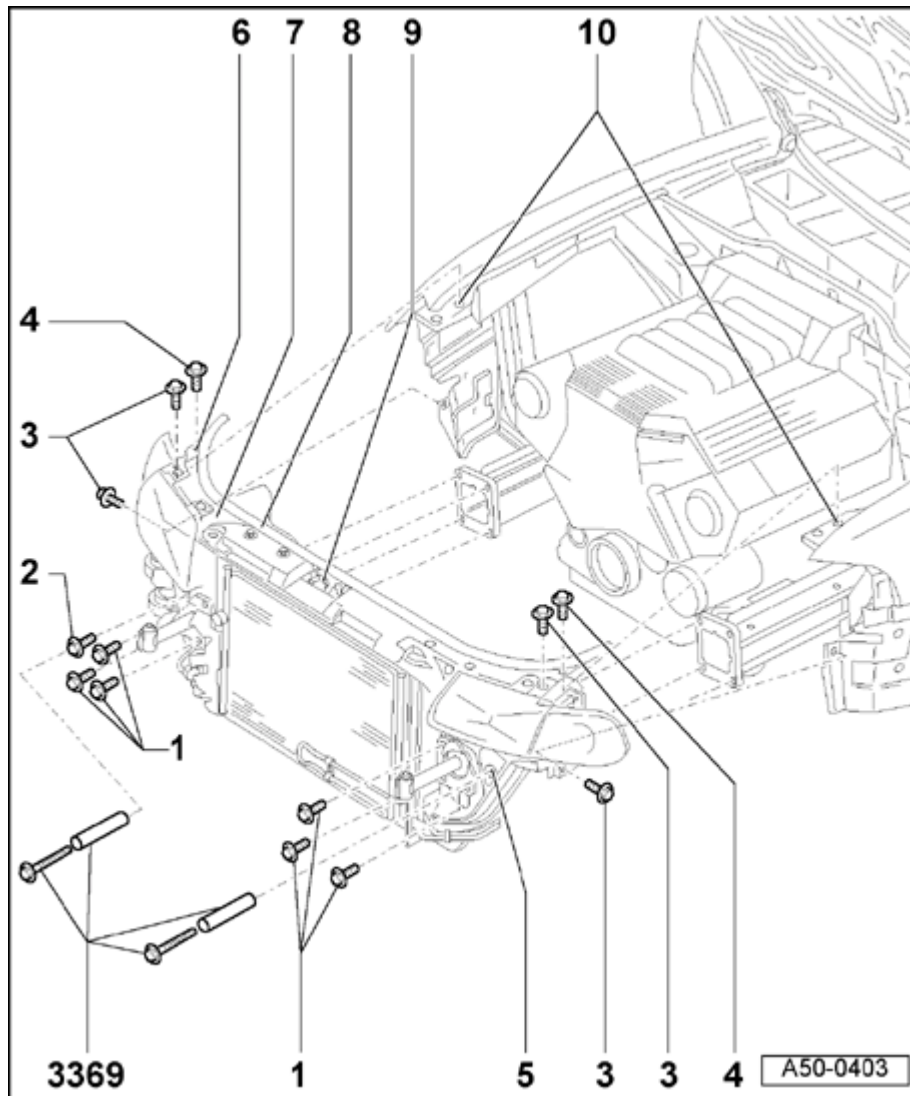
- Remove bumper ⇒ [page 63-1](#) .
- Remove noise insulation panel ⇒ [page 50-18](#) .
- Disconnect hood lock cable ⇒ [page 55-10](#) .
- Drain engine coolant and disconnect coolant hoses ⇒ [Fig. 2](#) .
- Disconnect condenser from lock carrier only (do not disconnect any lines) and secure with wire (e.g. at front wheel).

⇒ [Repair Manual, Heating & Air Conditioning, Repair Group 87](#)

Notes:

- ◆ Do not suspend condenser by its lines.
- ◆ Condenser lines must not be bent or kinked under any circumstances.
- Remove hydraulic oil cooler only (do not disconnect lines) ⇒ [Fig. 1](#) .

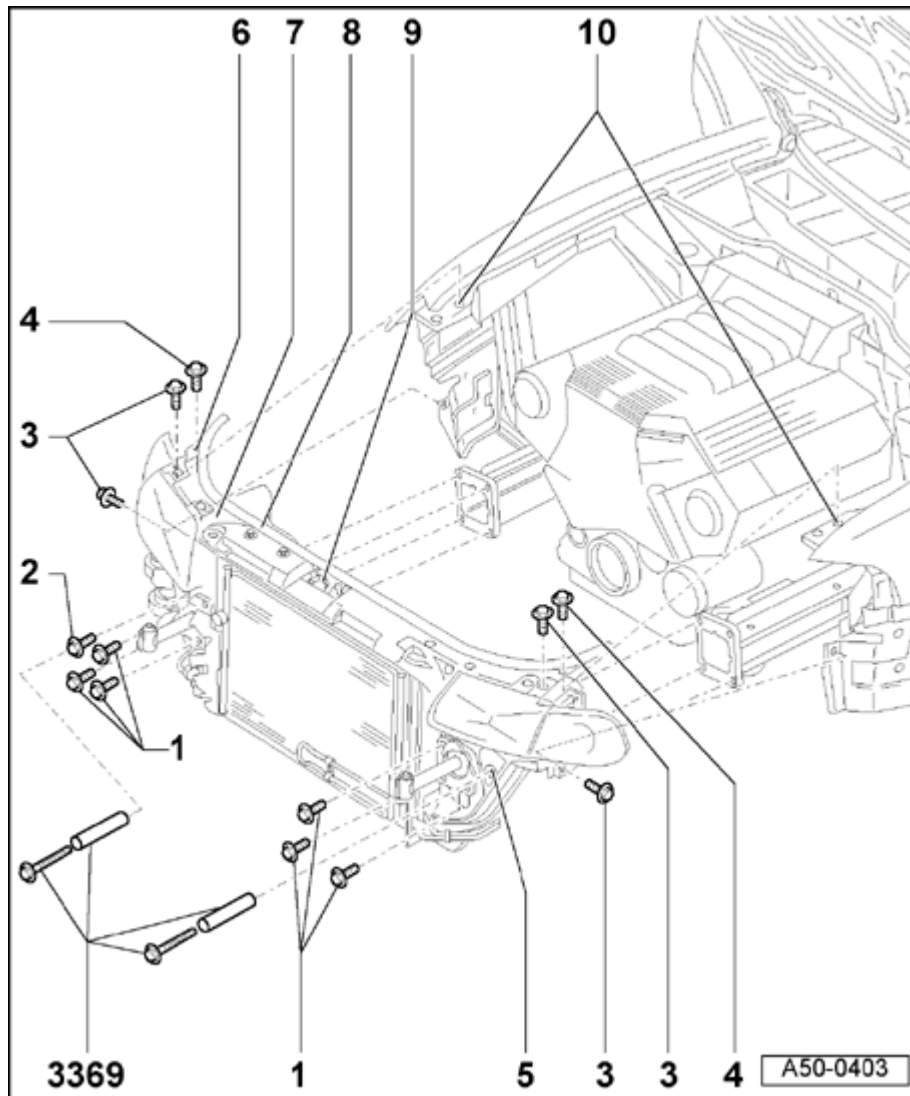
⇒ [Repair Manual, Suspension, Wheels, Steering, Repair Group 48](#)

**Notes:**

- ◆ Do not suspend hydraulic fluid cooler by its lines.
- ◆ Hydraulic fluid cooler must not be bent or kinked under any circumstances
- ◆ On vehicles with automatic transmission, remove ATF cooler

⇒ *Repair Manual, Automatic Transmission, Repair Group 37*

- ◆ On vehicles with charge air cooler, remove intake air duct
 - Loosen seal for hood -8- at left and right where fender meets lock carrier -7-.
 - Remove bolts -3- and -4-.
- A second mechanic is needed to support lock carrier -7-
 - Remove bolts -1- and -2-.

**Installing:**

- Install in reverse order of removal.
- Adjust headlights.

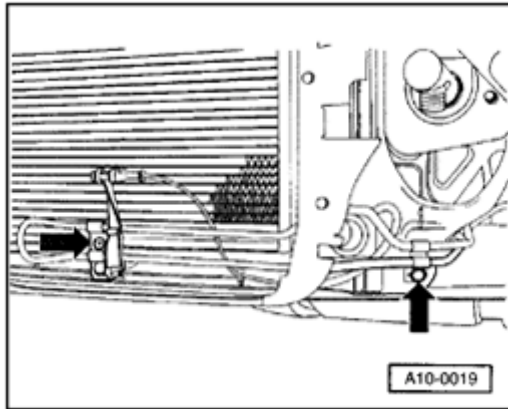
Adjusting:

- Center lock carrier -7- between fenders.
- If fenders and hood are also being replaced, center them in relation to one another before adjusting lock carrier.

8 - Hood seal**9 - Hood lock cable**

◆ Disconnecting ⇒ [page 55-10](#)

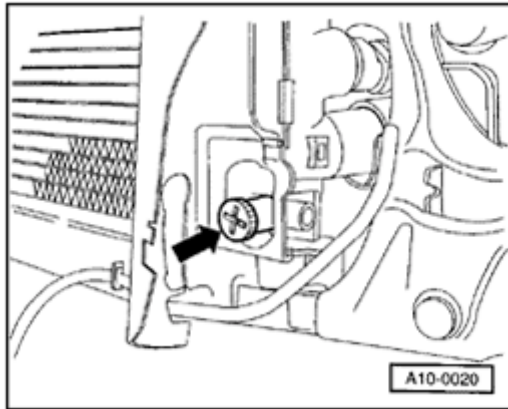
10 - Hole in side panel



A

Fig. 1 Disconnecting hydraulic fluid cooler

- Remove screws for cooling line (for power steering) at engine support and transmission.



A

Fig. 2 Disconnecting coolant hose

- Drain coolant from radiator.
- Pull out locking element for coolant line connecting flange at bottom of radiator and remove connecting flange.
- Bleed coolant system.

⇒ *Repair Manual, General, Engine, Repair Group 19*

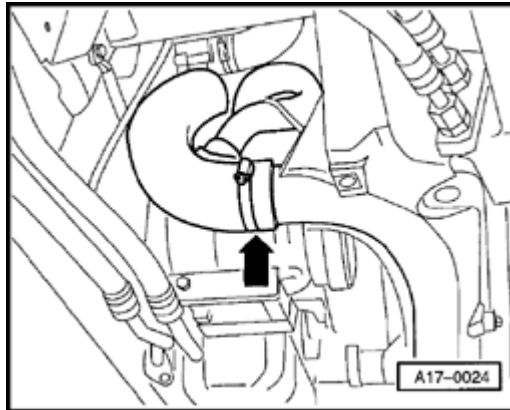
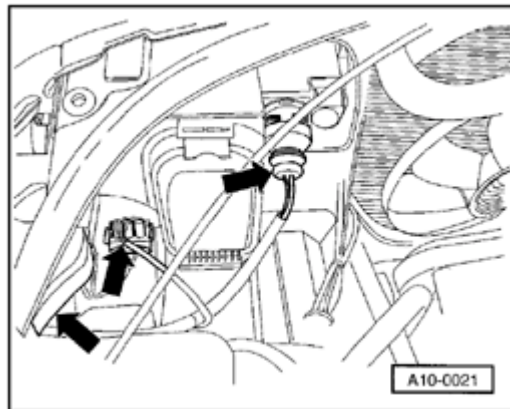
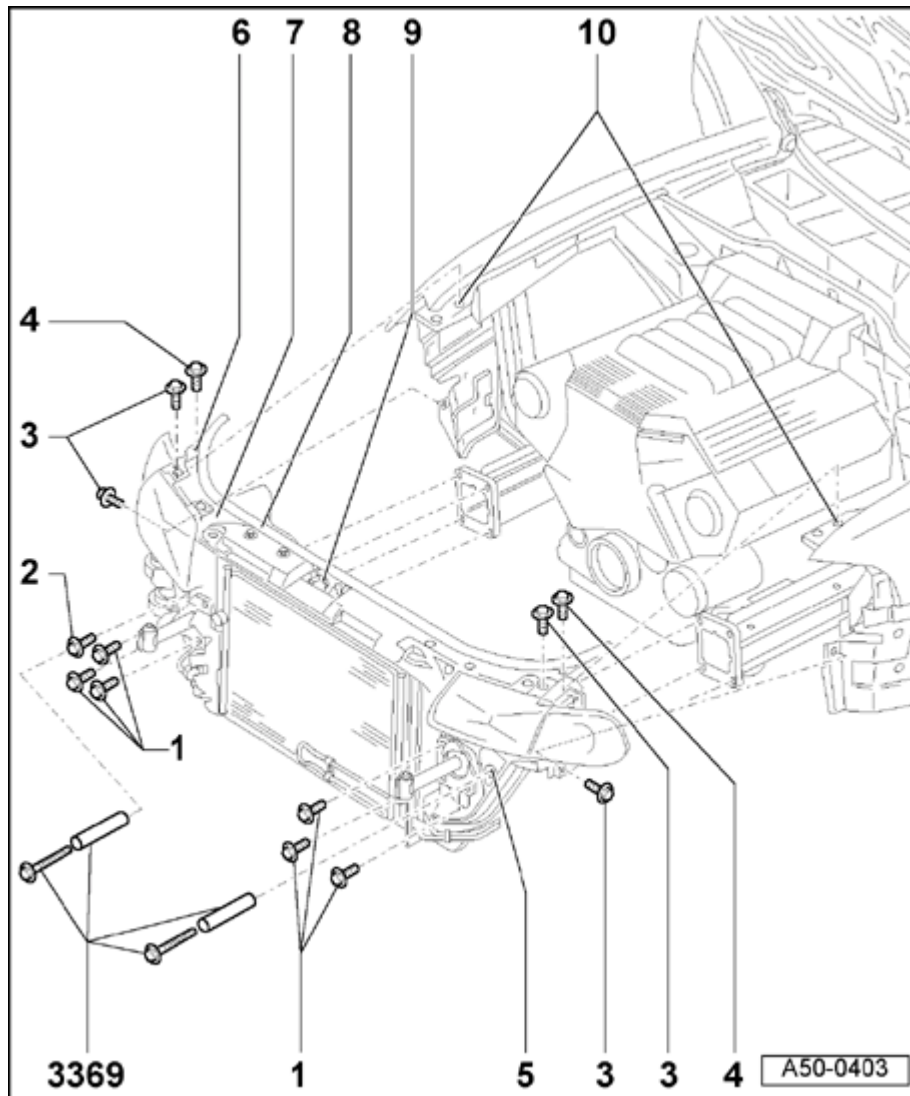


Fig. 3 Disconnect hose for charge air cooler

- On vehicles with charge air cooler, loosen bolt on hose clamp (arrow).
- Remove hose.
- Unscrew air duct to air cleaner at cowl and lift out.



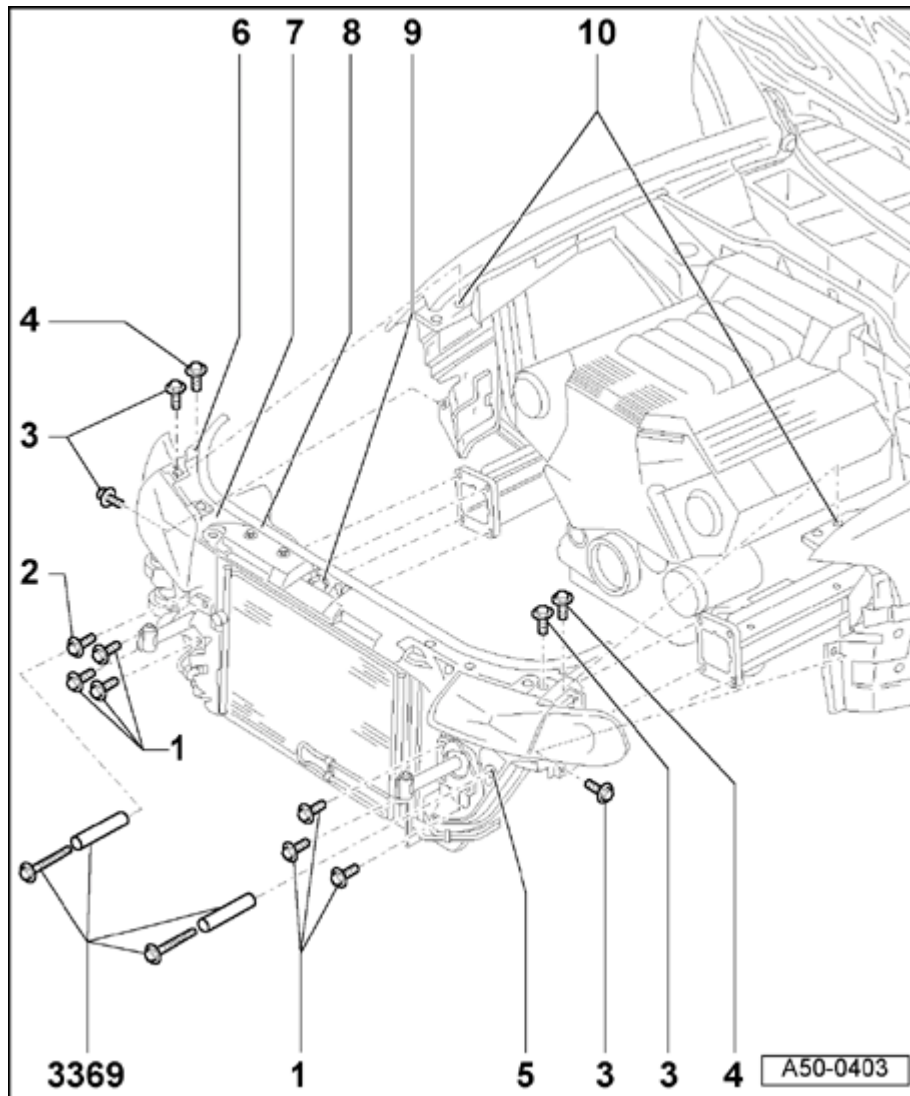
- Disconnect harness connectors for headlights, headlight height adjustment and blinkers.
- Disconnect harness connector for coolant system temperature sensor for coolant fan at lower coolant hose area at radiator (left).



Lock carrier service position

Notes:

- ◆ Do not remove noise insulation. Loosen only front quick-release screws ⇒ [page 50-18](#).
- ◆ Bumper removed
- 1 - Combination bolt**
 - ◆ 45 Nm (33 ft lb)
- 2 - Combination bolt**
 - ◆ 45 Nm (33 ft lb)
- 3 - Combination bolt**
 - ◆ 10 Nm (7 ft lb)
- 4 - Combination bolt**
 - ◆ 10 Nm (7 ft lb)
- 5 - Access hole for special tool**
 - ◆ For service position, attach special tool 3369 here
- 6 - Cowl attachment hole**
 - ◆ Attachment for service position



7 - Lock carrier

◆ For service position

- Screw special tool 3369 into threaded bore -5- on left side ⇒ [Fig. 1](#)
- Remove left and right mounting screws -1-.
- Remove mounting bolts -3- and -4- and pull lock carrier -7- forward.
- Secure lock carrier ⇒ [Fig. 2](#).

8 - Hood seal

9 - Hood lock cable

10 - Hole in side panel

Note:

After assembly of the lock carrier, check headlight positioning and adjust if necessary.

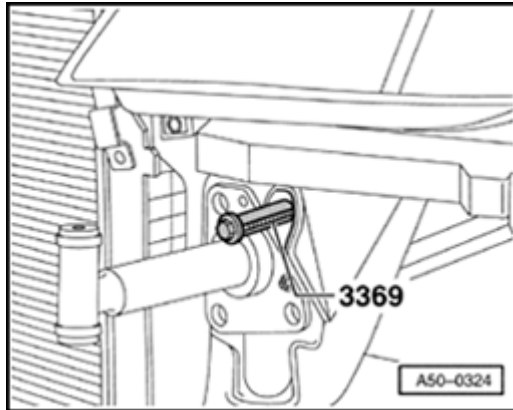


Fig. 1 Screw in special tool 3369

- Screw special tool 3369 in at left and right as shown.
- Pull lock carrier forward until rear hole in lock carrier aligns with front threaded hole in fender flange.

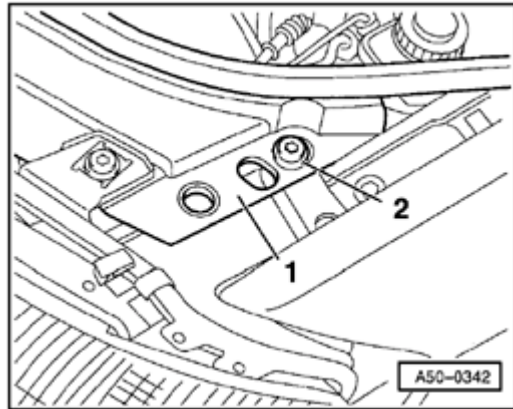
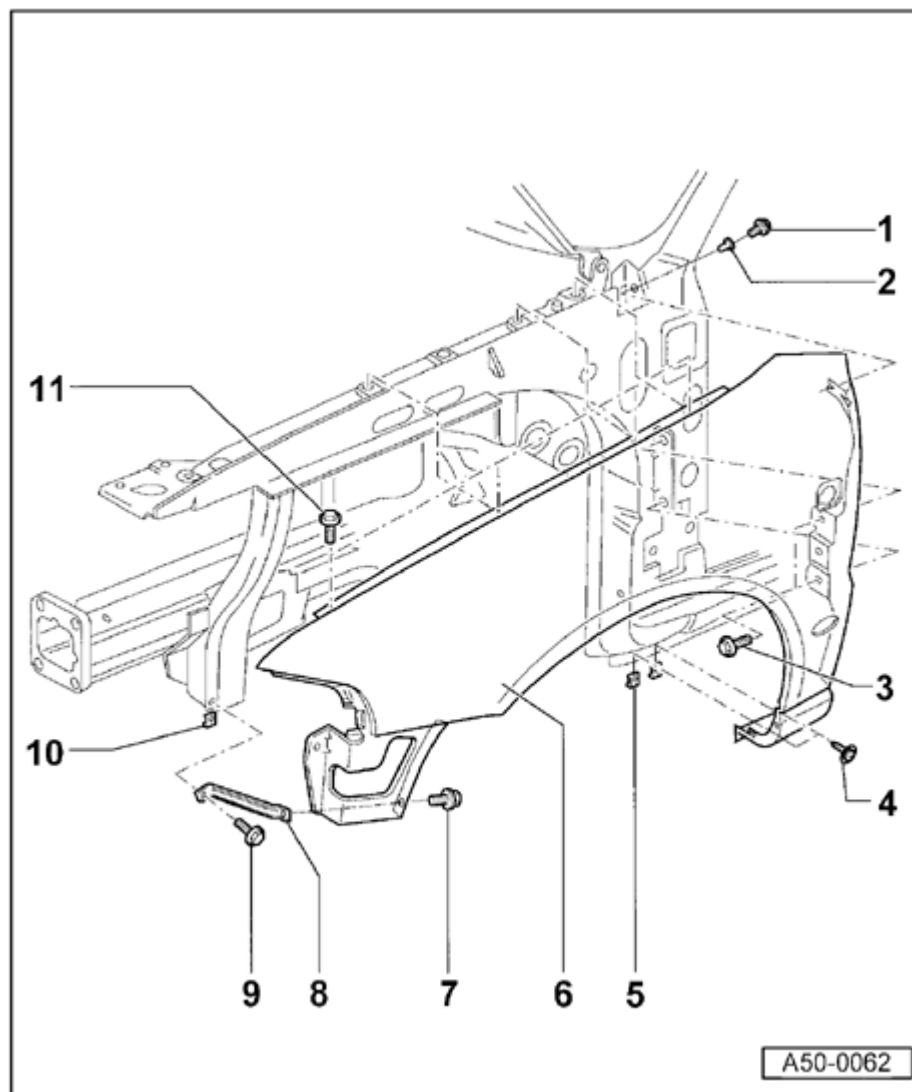


Fig. 2 Secure lock carrier

- Secure lock carrier with screws at left and right as shown.



Front fender (➤ VIN 8D XA 200 000), assembly overview

1 - Combination bolt

- ◆ 4.5 Nm (40 in. lb)

2 - Threaded rivet

- ◆ Threaded rivet is inserted using VAG1618A

3 - Combination bolts (2x)

- ◆ 7.5 Nm (66 in. lb)

4 - Phillips head screw

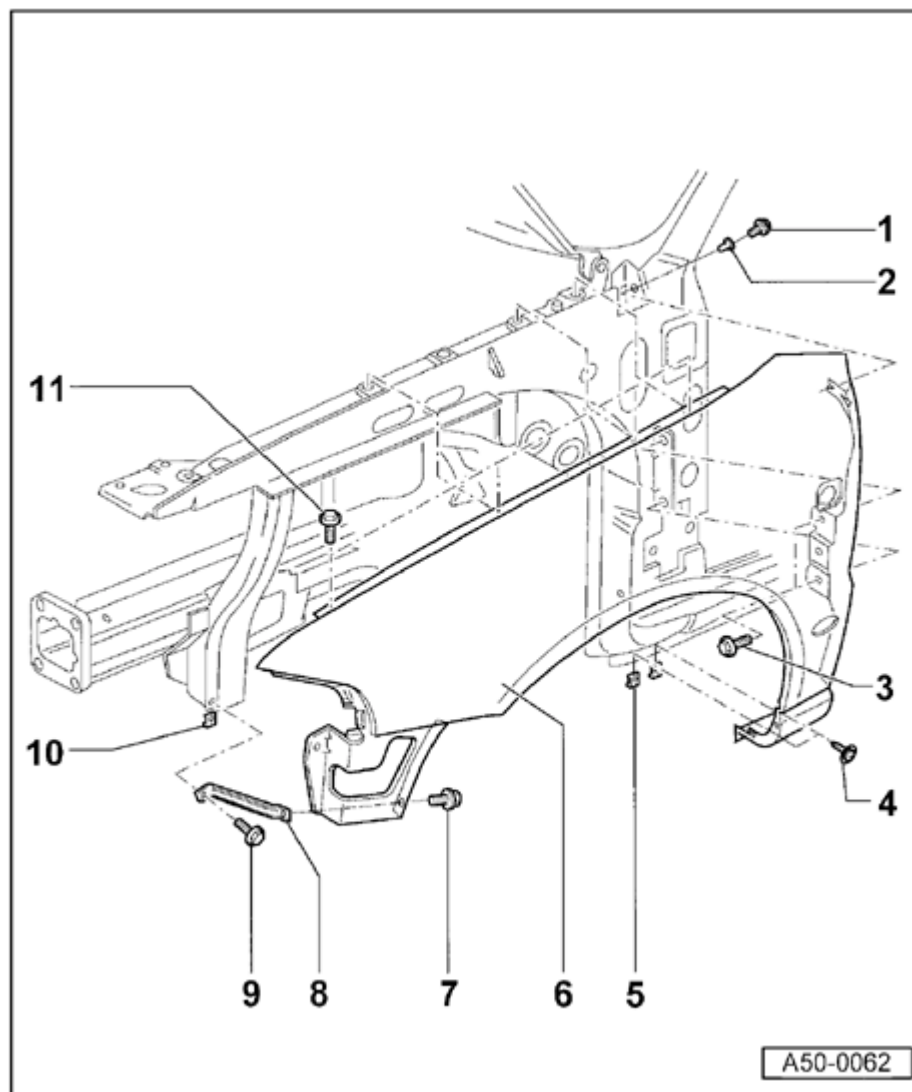
- ◆ 4.5 Nm (40 in. lb)

5 - Metal nut (2x)

6 - Fender

- ◆ Remove bumper ⇒ [page 63-1](#) .
- ◆ Remove wheelhousing liner ⇒ [page 66-31](#) .
- ◆ Remove end plate ⇒ [Fig. 1](#) .
- ◆ Remove headlights ⇒ Repair Manual, Electrical Equipment
- ◆ Disconnect electrical connectors for side blinkers
 - Remove bolts -1-, -3-, -4-, -7-, and -11-.

50-11

**7 - Combination bolt**

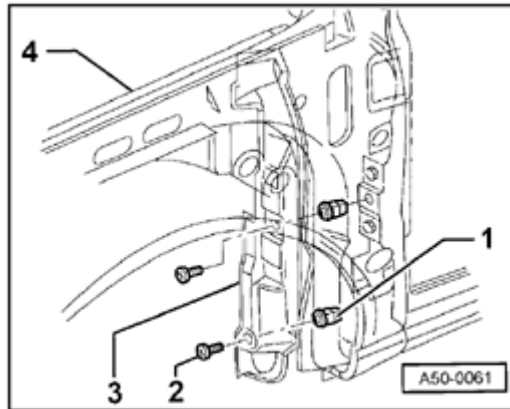
◆ 7.5 Nm (66 in. lb)

8 - Bracket**9 - Combination bolt**

◆ 7.5 Nm (66 in. lb)

10 - Metal nut**11 - Combination bolt**

◆ 7.5 Nm (66 in. lb)



A

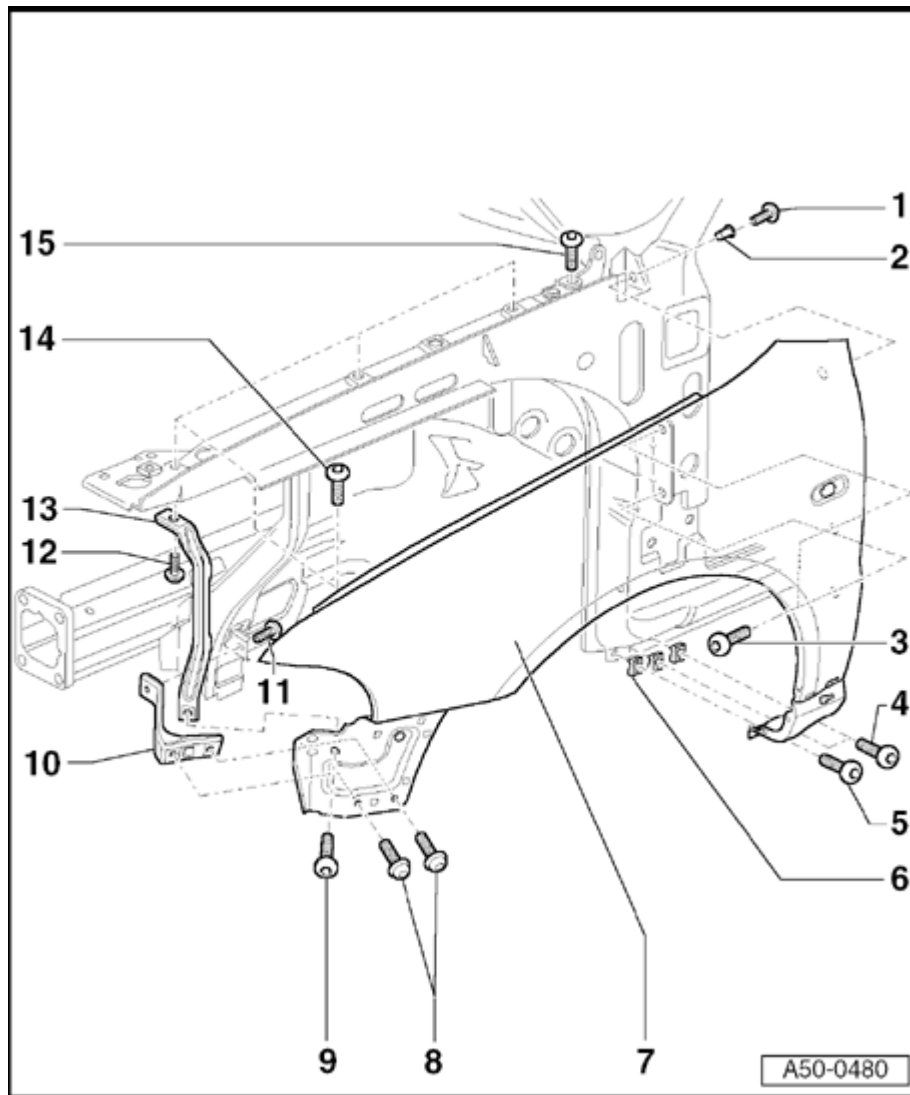
Fig. 1 Removing and installing end plate

- Remove front wheel.
- Remove wheelhousing liner ⇒ [page 66-31](#) .
- Remove bolt -2- (2x).

Tightening torque: 2.5 Nm (22 in. lb)

- Remove endplate -3- from fender -4-.

1 - Expanding clip (2x)



Front fender (VIN 8D XA 200 001 ➤ and S4), assembly overview

1 - Combination bolt

◆ 4.5 Nm

2 - Threaded rivet

◆ The threaded rivet is inserted with VAG 1618 A.

3 - Combination bolts (2x)

◆ 7.5 Nm

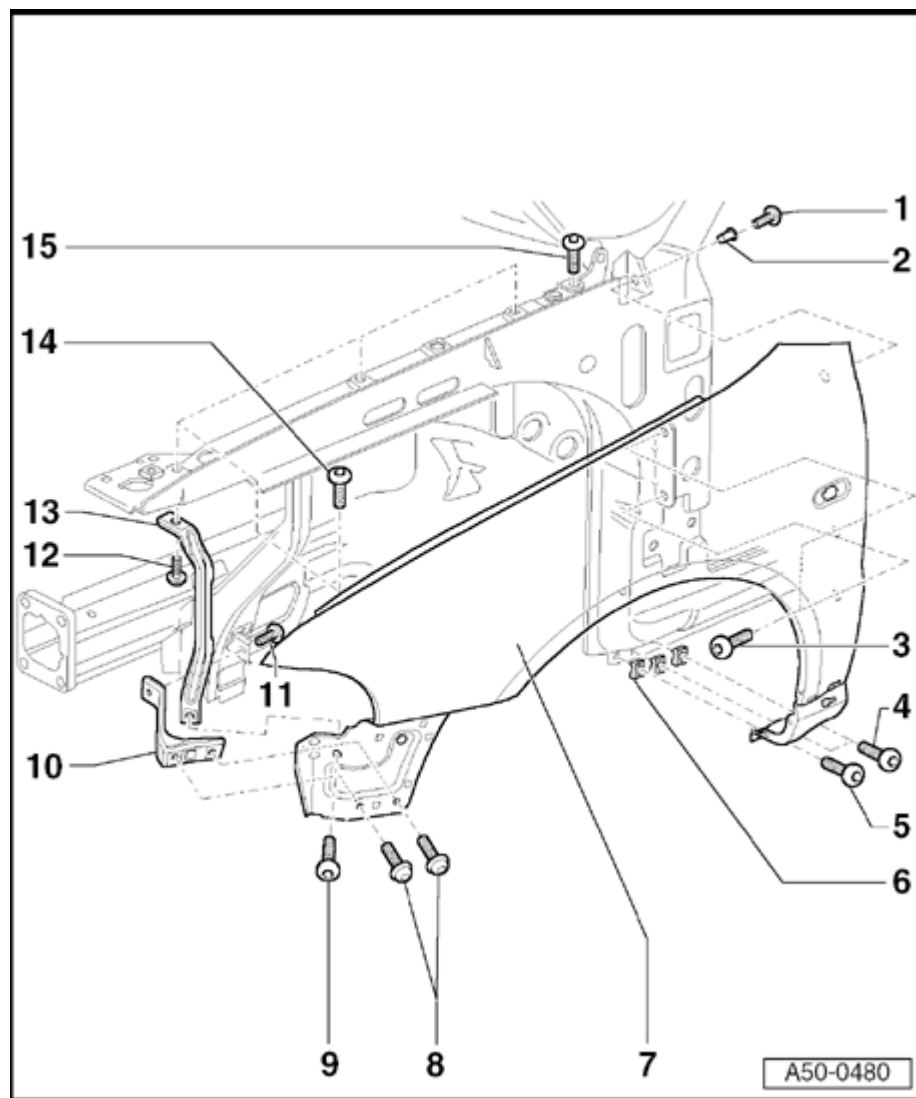
4 - Phillips-head screw

◆ 4.5 Nm

5 - Phillips-head screw

◆ Only installed for S4.

◆ 4.5 Nm



6 - Snap-on nut

- ◆ Only installed for S4.

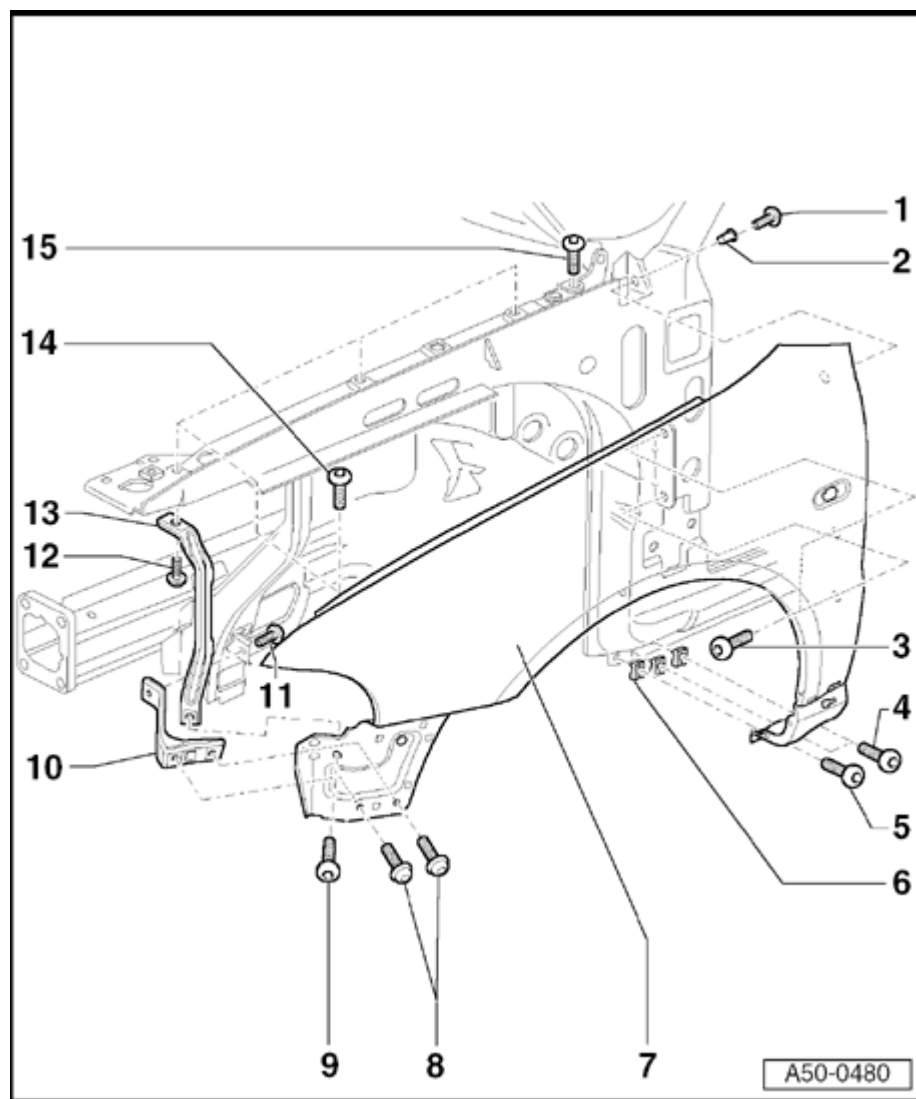
7 - Fender

- ◆ Drill additional hole at bottom for S4 fender
⇒ [Fig. 2](#).
- ◆ Removing:
 - Remove bumper ⇒ [page 63-5](#).
 - Remove wheelhousing liner ⇒ [page 66-31](#).
 - Remove headlights

⇒ [Repair Manual, Electrical Equipment, Repair Group 94, headlights, headlights, removing and installing.](#)

- Disconnect harness connector for side turn-signal.
- Remove end plate ⇒ [Fig. 1](#).
- Remove bolts -1-; -3-; -4- (bolt -5- only for S4) -8-; -9- and -14-.

50-15

**8 - Metal bolt**

◆ 7.5 Nm

9 - Metal bolt

◆ 7.5 Nm

10 - Bracket**11 - Metal bolt**

◆ 7.5 Nm

12 - Metal bolt

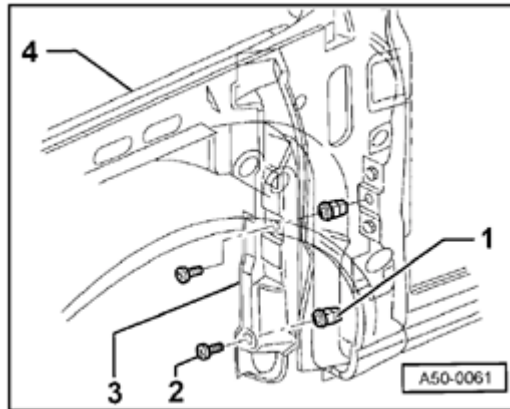
◆ 7.5 Nm

13 - Bracket**14 - Combination bolt**

◆ 10 Nm

15 - Combination bolt

◆ 7.5 Nm



A

Fig. 1 Removing and installing end plate

- Remove front wheel.
- Remove wheelhousing liner ⇒ [page 66-31](#) .
- Remove bolt -2- (2x).
Tightening torque: 2.5 Nm
- Remove end plate -3- from fender -4-.
- Expanding clip -1- (2x).

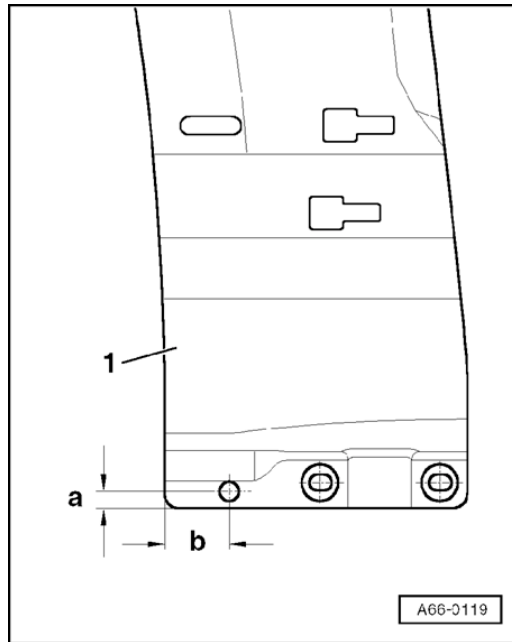


Fig. 2 Drilling hole for S4 fender

Note:

For part replacement, drill hole before painting.

- Drill 7 mm diameter hole in fender. Dimension -a- = 22mm and -b- = 8mm.
- Restore corrosion protection at edges of hole.

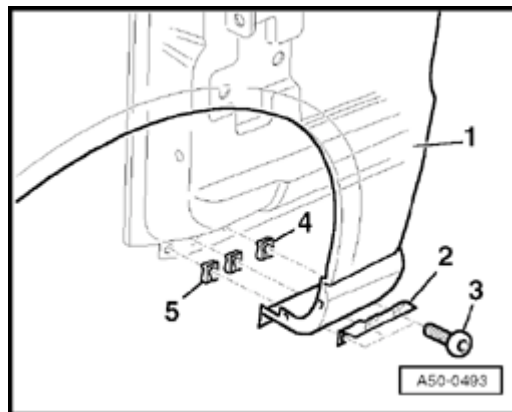
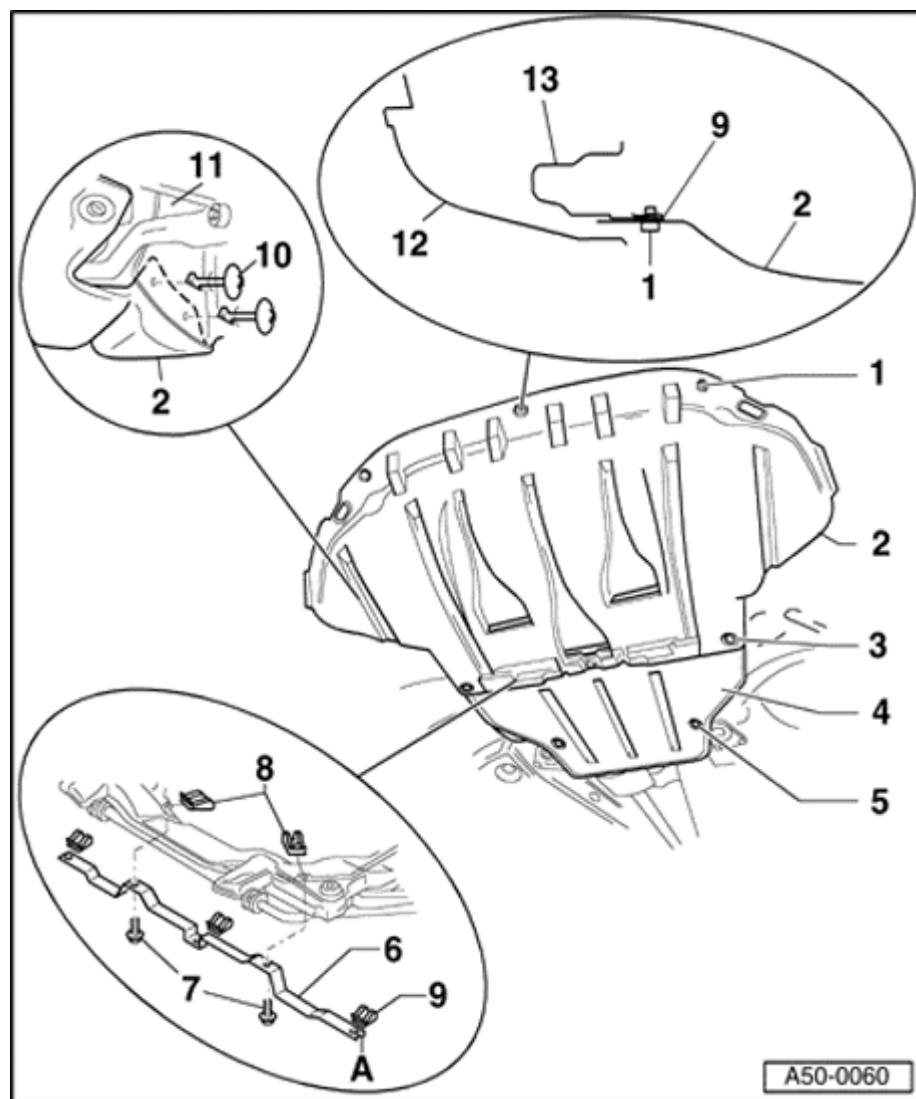


Fig. 3 Lower fender mount (S4)

- Slide speed nuts -4- onto door sill from bottom.
- Speed nuts -5- only for S4
- Secure fender -1- at bottom using reinforcing bracket -2- and bolts -3-.

50-18



Noise insulation panel, assembly overview

1 - Quick-release screw

- ◆ Remove only this quick release screw for service position
- ◆ Three pieces
- ◆ 2 Nm (18 in. lb)

2 - Front noise insulation

3 - Quick release screw

- ◆ Three pieces
- ◆ If rear noise insulation panel is also - 4 - being installed, then longer quick-release screws must be used
- ◆ 2 Nm (18 in. lb)

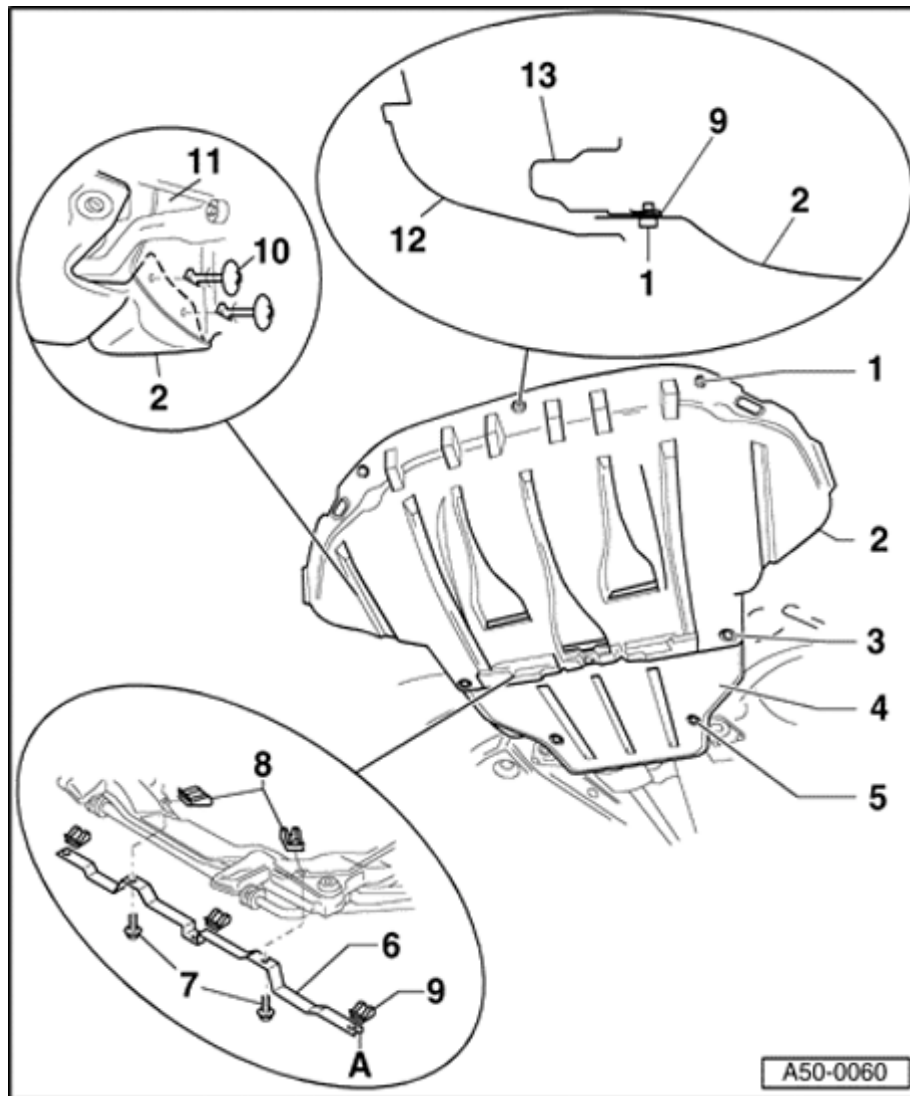
4 - Rear noise insulation panel

- ◆ Only installed for certain engine types
- ◆ Installed over noise insulation panel -2-

5 - Quick-release screw

- ◆ Two pieces
- ◆ 2 Nm (18 in. lb)

50-19

**6 - Mounting for noise insulation panel**

- ◆ Position -9- must face left side of vehicle

7 - Bolt

- ◆ Two pieces
- ◆ 7.5 Nm (66 in. lb)

8 - Plate nut

- ◆ Two pieces

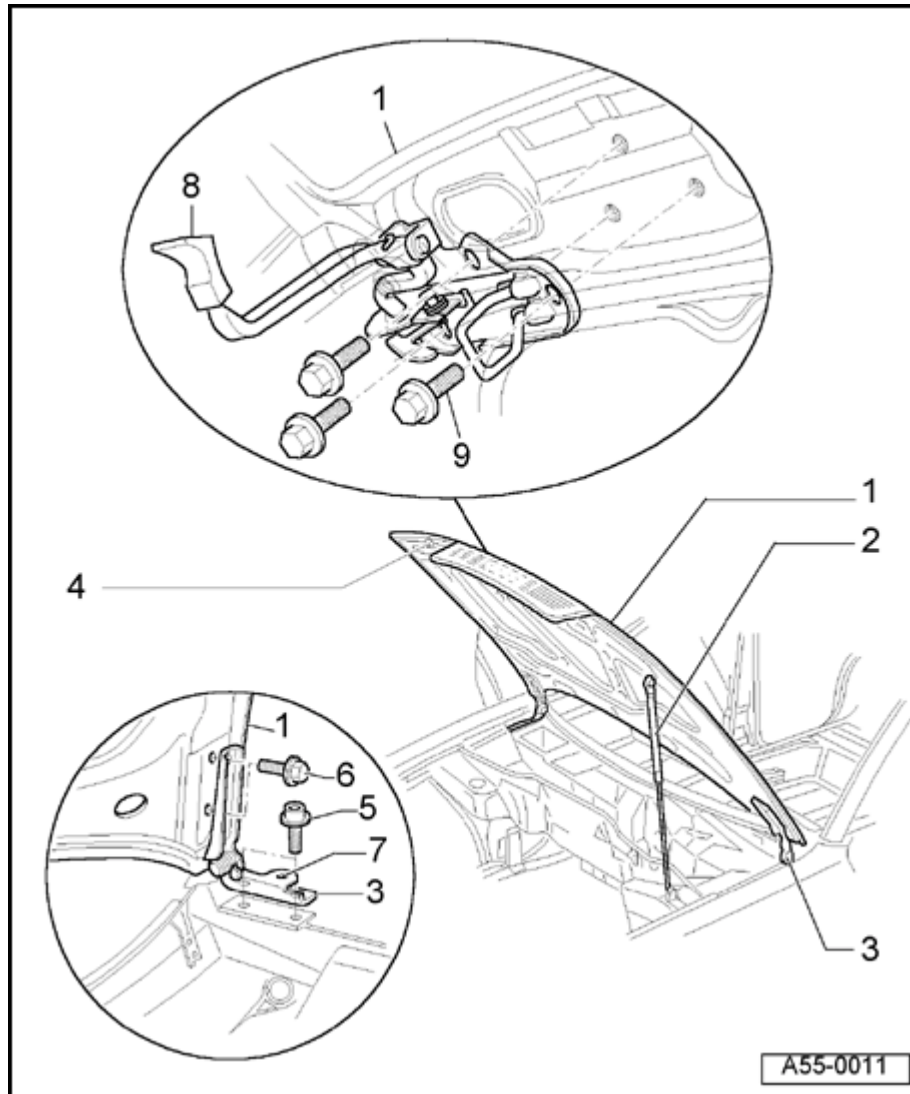
9 - Plate nut

- ◆ Three pieces

10 - Clamping pin

- ◆ Two pieces

11 - Wheelhousing liner**12 - Bumper****13 - Lock carrier with attachments**



Hood

Hood, removing, installing and adjusting

1 - Hood

Removing:

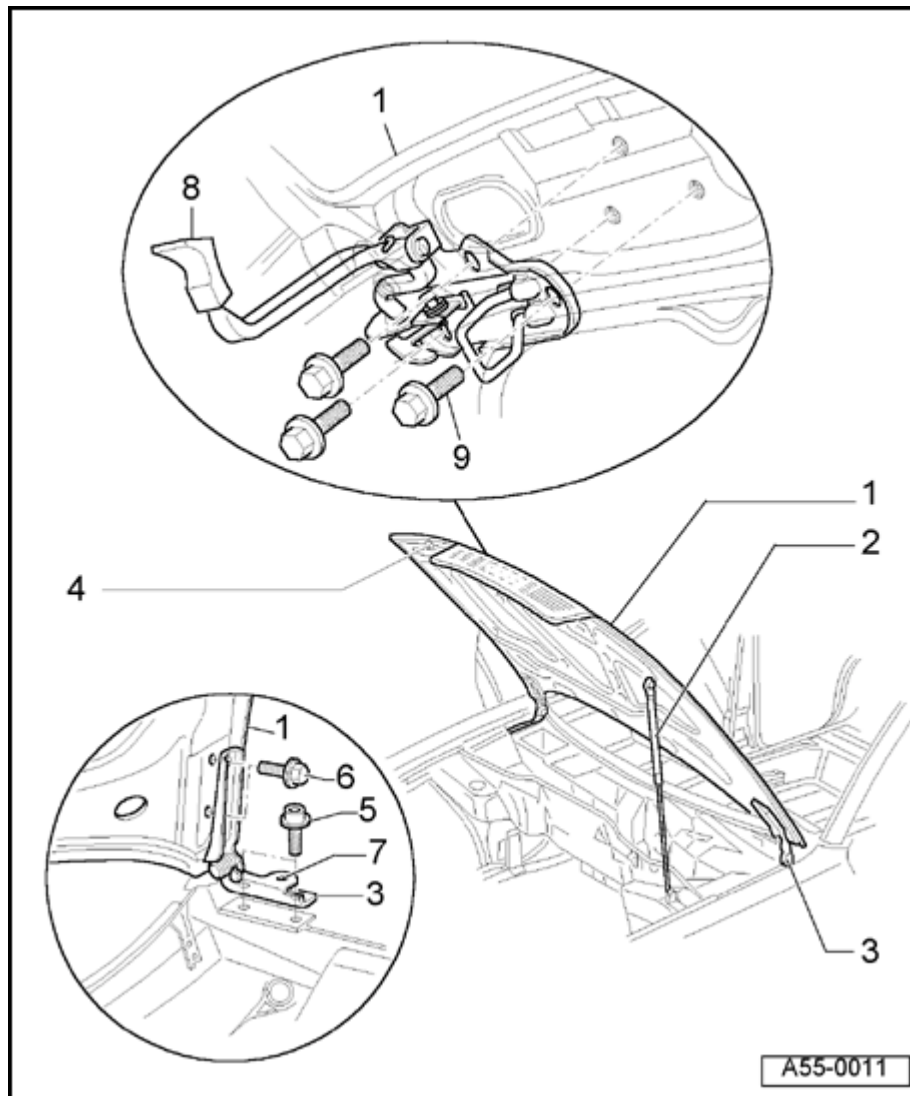
- Disconnect hose to windshield washer system and unclip.
- Second person is needed to support and lift hood during removal
 - Disconnect gas-filled strut -2- from hood -1-.
 - Remove bolts -6-.
 - Remove hood.

Installing:

- Install in reverse order of removal.

Adjusting:

- Align hood -1- between fenders.
- Adjust height of hood at hood lock ⇒ [Fig. 4](#) ⇒ [Page 55-7](#).
- ◆ Hood can be adjusted for height relative to fenders by adjusting stop buffers -4- ⇒ [Fig. 2](#) ⇒ [Page 55-6](#)
- ◆ Panel gap dimensions ⇒ [Fig. 5](#) ⇒ [Page 55-7](#)



2 - Gas-filled strut

- ◆ Removing ⇒ [page 55-4](#)
 - To install, press gas-filled strut onto ball stud.
 - Install with tube end of strut at body of vehicle.
- ◆ Releasing pressure ⇒ [page 55-5](#)

3 - Hood hinge

- ◆ Hood -1- must be removed or propped up securely
 - To remove, remove bolts -5-, -6- and -7-.

4 - Stop buffer

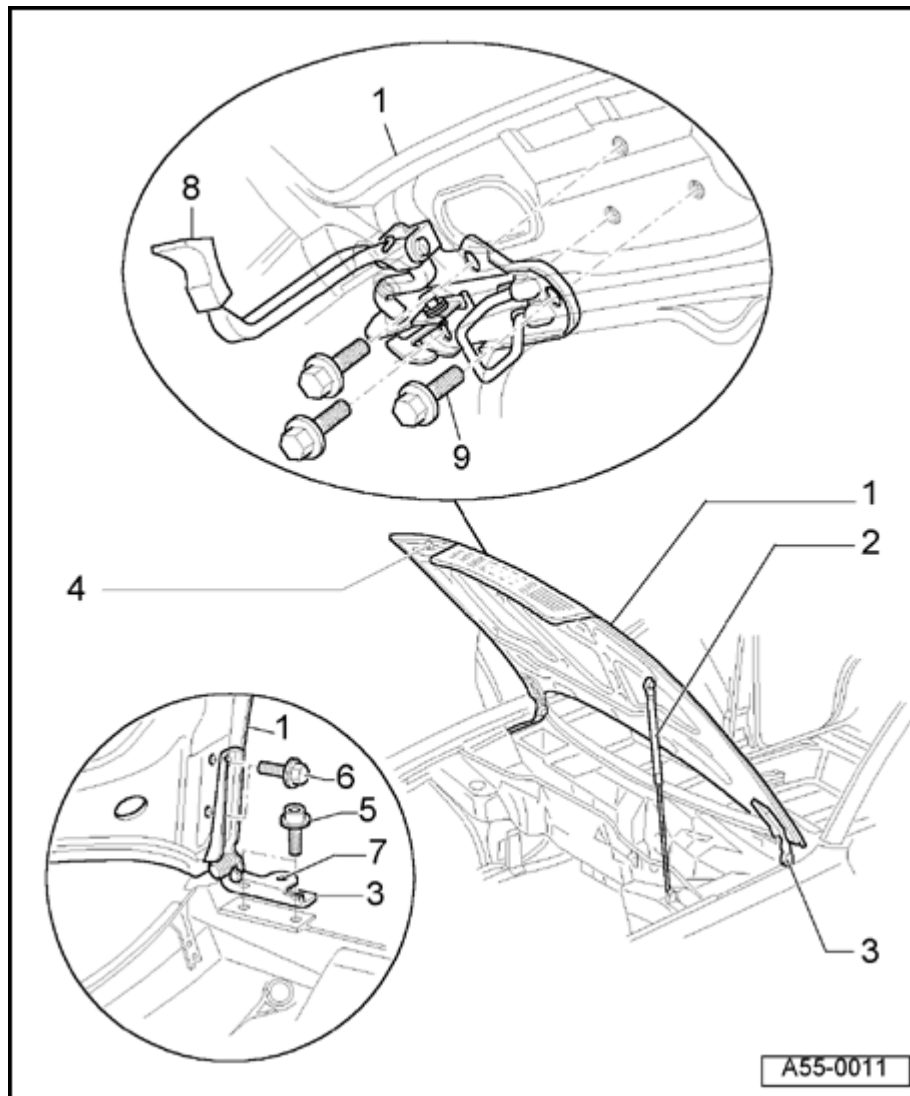
- ◆ Adjusting ⇒ [Fig. 2](#) ⇒ [Page 55-6](#)

5 - Bolts (2x)

- ◆ 21 Nm (15 ft lb)

6 - Bolts (2x)

- ◆ 21 Nm (15 ft lb)

**7 - Bolt**

- ◆ 7.5 Nm (66 in. lb)

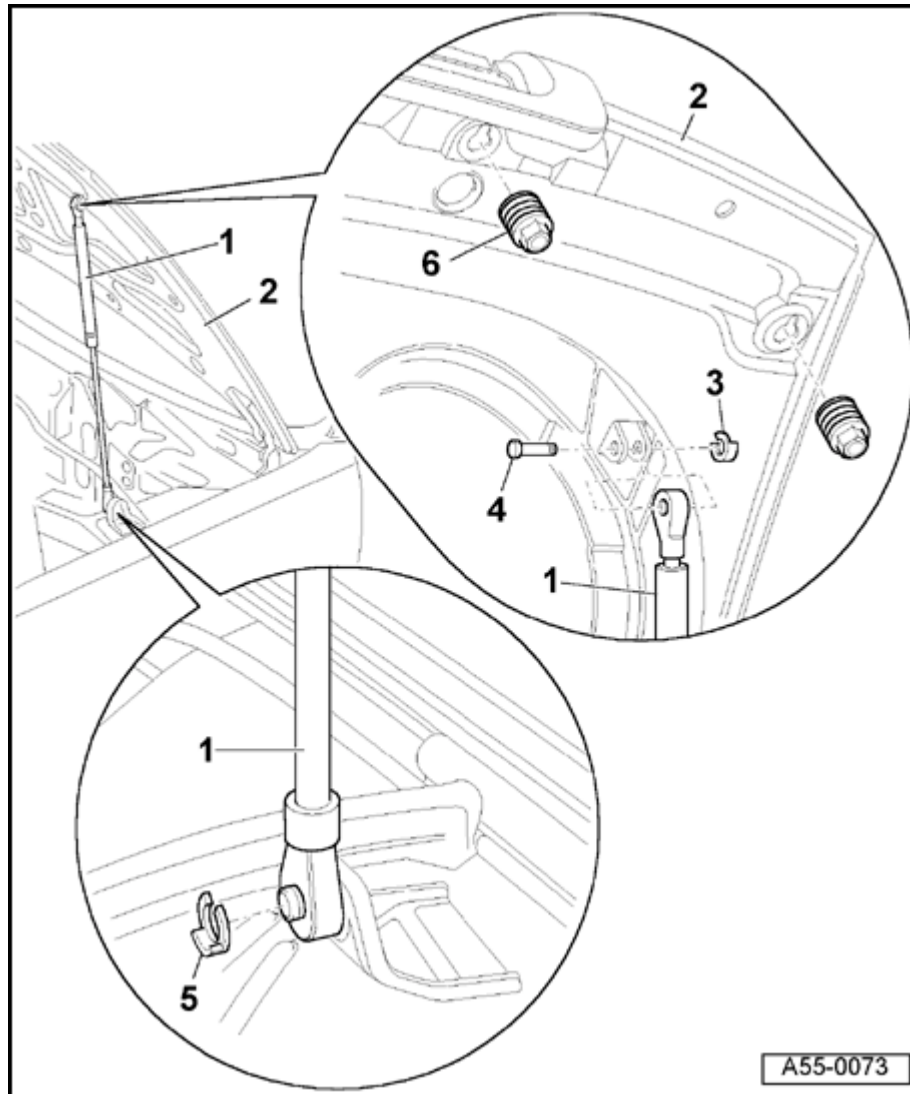
8 - Hood lock release

- To remove, remove bolt -9-.

- ◆ Installing ⇒ [Fig. 3](#) ⇒ [Page 55-6](#)
- ◆ Hood lock release can only be adjusted in direction of travel

9 - Bolts (3x)

- ◆ 8 Nm (71 in. lb)



Gas-filled strut, removing and installing

1 - Gas-filled strut

Removing:

- Prop up or secure hood -2- in open position.
- Remove securing clip -5-.
- Also remove clip -3-.
- Lift hood slightly, remove bolt -4- and remove gas-filled strut.

Installing:

- Install with tube end of strut at body of vehicle.

2 - Hood

3 - Securing clip

4 - Pins

5 - Securing clip

6 - Stop buffer

- ◆ Hood height adjustment ⇒ [Fig. 2](#)

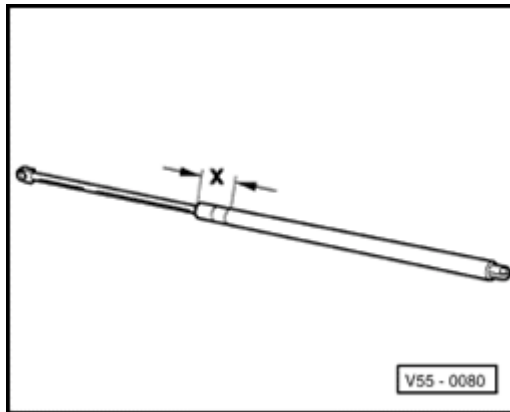


Fig. 1 Releasing gas from strut

- Clamp gas-filled strut in vice area -x-.

Dimension -x-: 50 mm (2 in.)

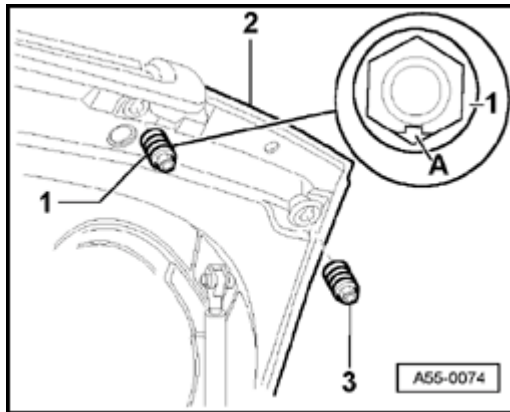
- Using saw, cut into cylindrical part of strut at point within first third of cylinder's length (measured from piston rod end of cylinder).

WARNING!

Clamp only in the area shown; otherwise there is a risk of an accident!

Note:

Always wear eye protection when performing this procedure. Cover the sawing area with a clean rag to contain any escaping fluid.



A

Fig. 2 Adjusting height of stop buffers

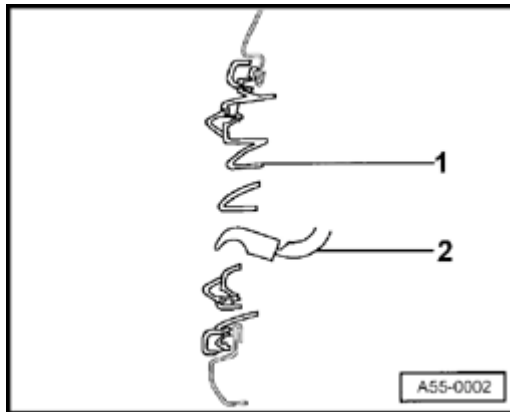
- When hood is closed, stop buffer -3- (2x external) must rest lightly on the lock carrier.

Note:

The stop buffers can be used for adjusting the height of the hood.

- Turn stop buffer -1- (2x internal) in hood -2- until impact, then unscrew one half rotation.

Marking -A- must point toward rear of vehicle.



A

Fig. 3 Hood latch release

- Hood lock actuator -2- must be flush with radiator grill when closed.
- Hood lock actuator must be centrally positioned relative to radiator grill.

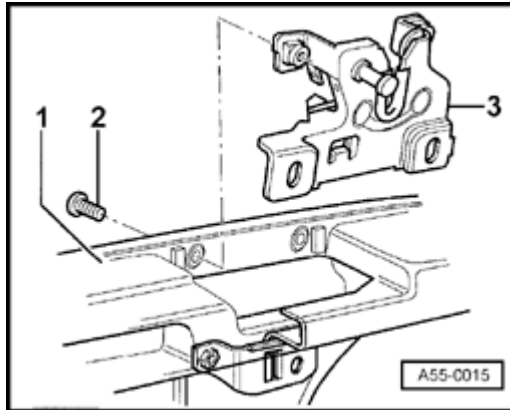


Fig. 4 Removing and installing lower section of hood lock

- Disengage hood lock cable ⇒ [page 55-10](#) .
- Remove bolts -2- (4x).

Tightening torque: 10 Nm (7 ft lb)

- Remove lower section of lock -3-.

1 - Lock carrier

- To adjust hood, move lower section of lock up or down as required.

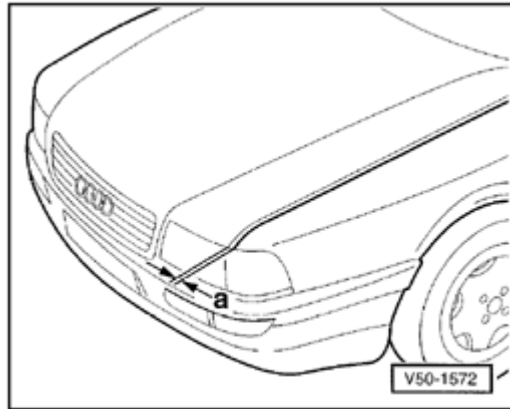


Fig. 5 Panel gap dimensions

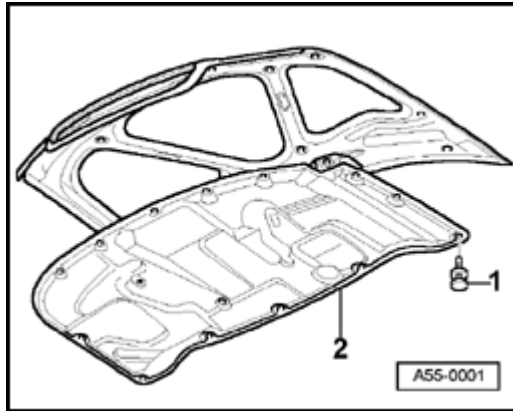
Gap dimensions can be checked using 3371 adjustment gauge.

Dimension -a- = 3.0 mm

Hood lining, removing



- Remove clips -1- (17x).
- Remove lining -2-.

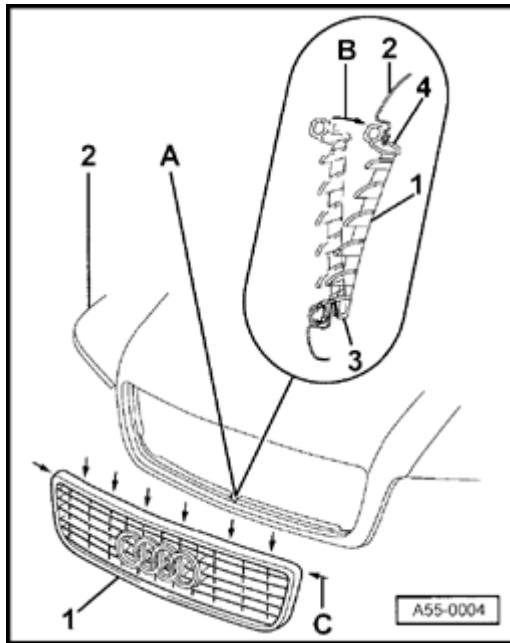


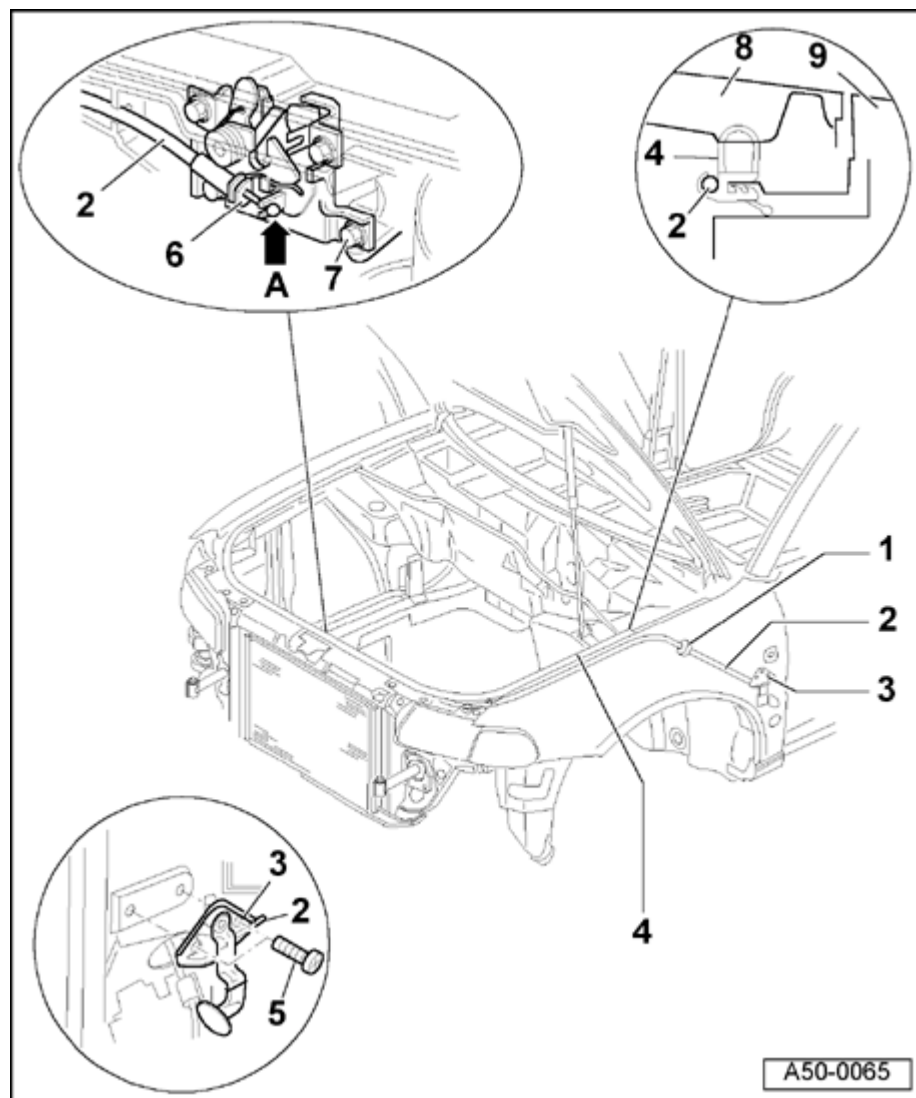
Radiator grill, removing and installing



Mounting point -A- centers radiator grill in hood.

- Place radiator grill -1- in guide notch -3- and clip into hood -2- in direction shown by arrow -B-.
- Arrows -C- designate all retaining tabs -4-. Retaining tabs must be unclipped individually during grill removal.





Hood lock cable, removing and installing

1 - Grommet

2 - Hood lock cable

Removing:

- Remove storage compartment on driver's side.

⇒ [Repair Manual, Body-Interior, Repair Group 68](#)

- Remove bolts -3-.
- Detach cable -2- at support -6- and disengage from attachment point -A-.
- Remove cable -2- from guide channel in seal -4- and pull cable through bulkhead into interior of vehicle.

Installing:

- Install in reverse order of removal.

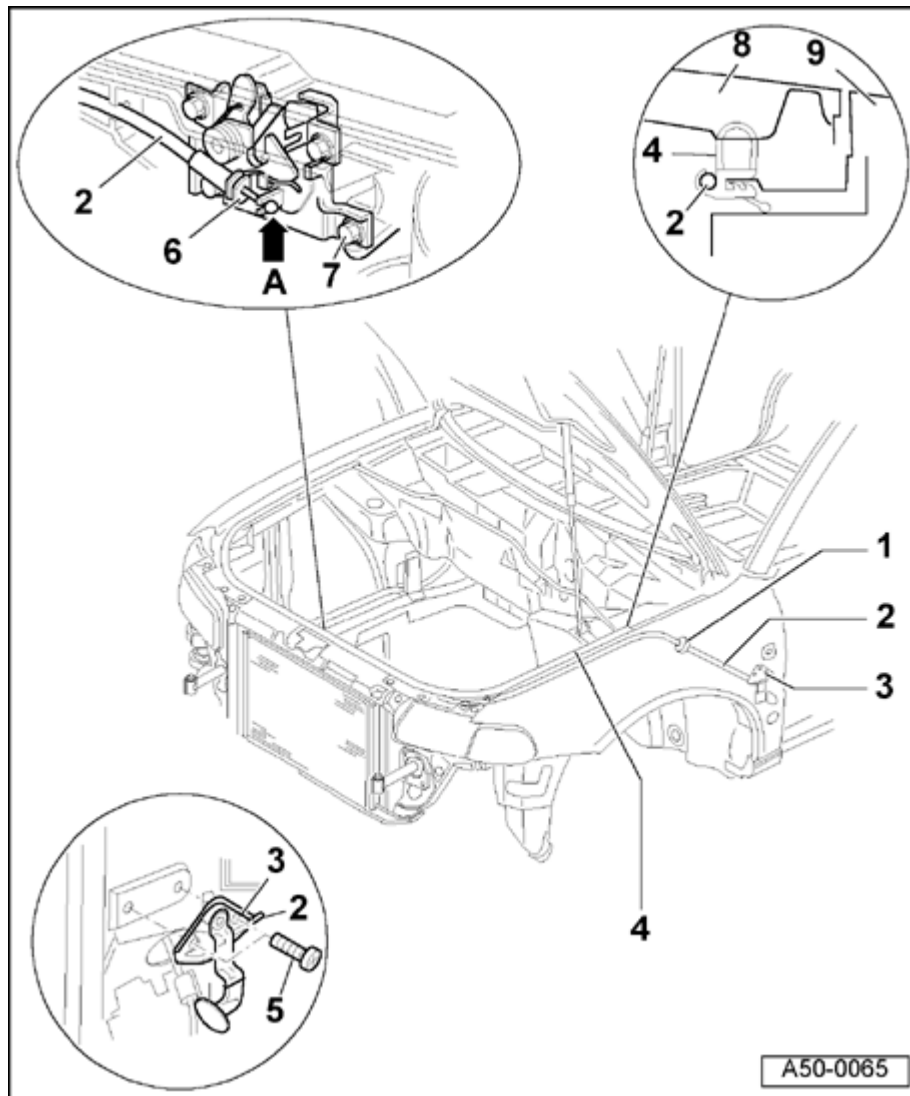
3 - Hood lock release

4 - Seal

5 - Bolt

- ◆ Qty: 2
- ◆ 4 Nm (35 in. lb)

55-11



6 - Attachment point for hood lock cable

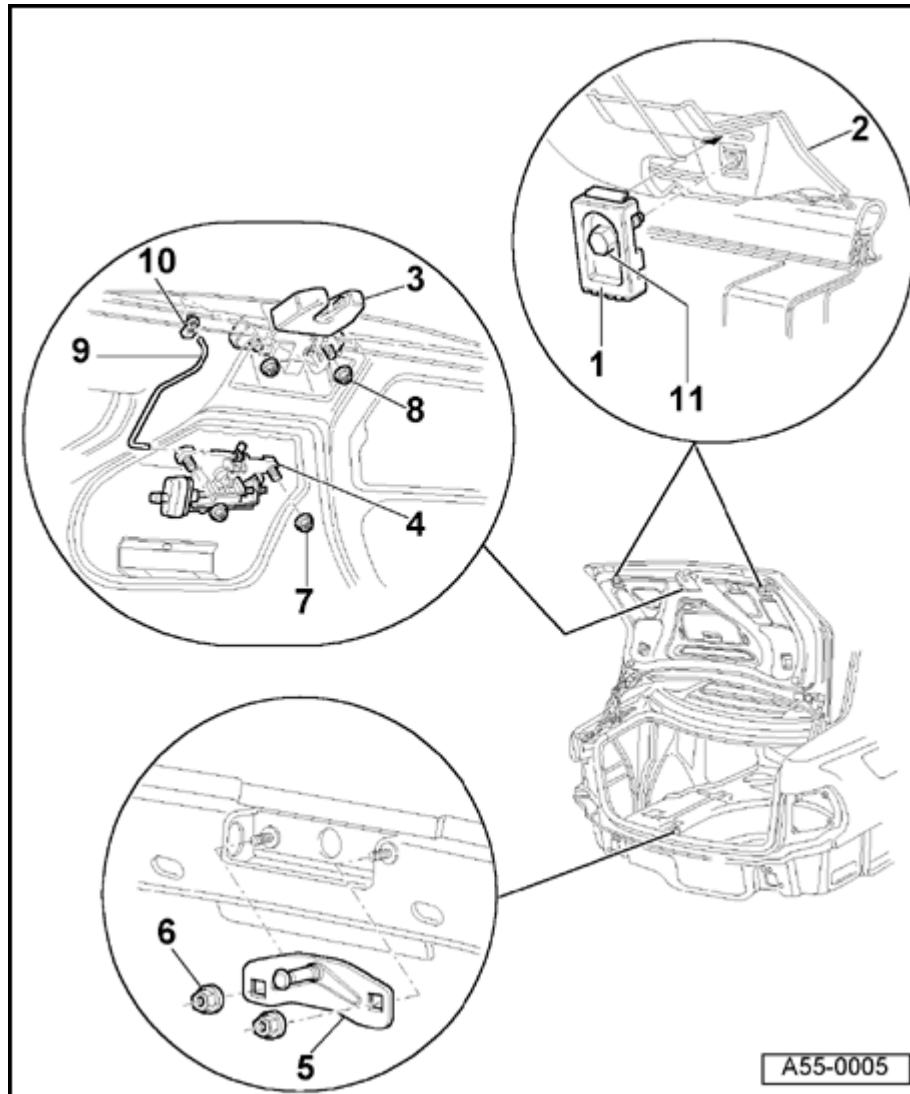
7 - Bolt

◆ Qty: 4

◆ 10 Nm (7 ft lb)

8 - Hood

55-12



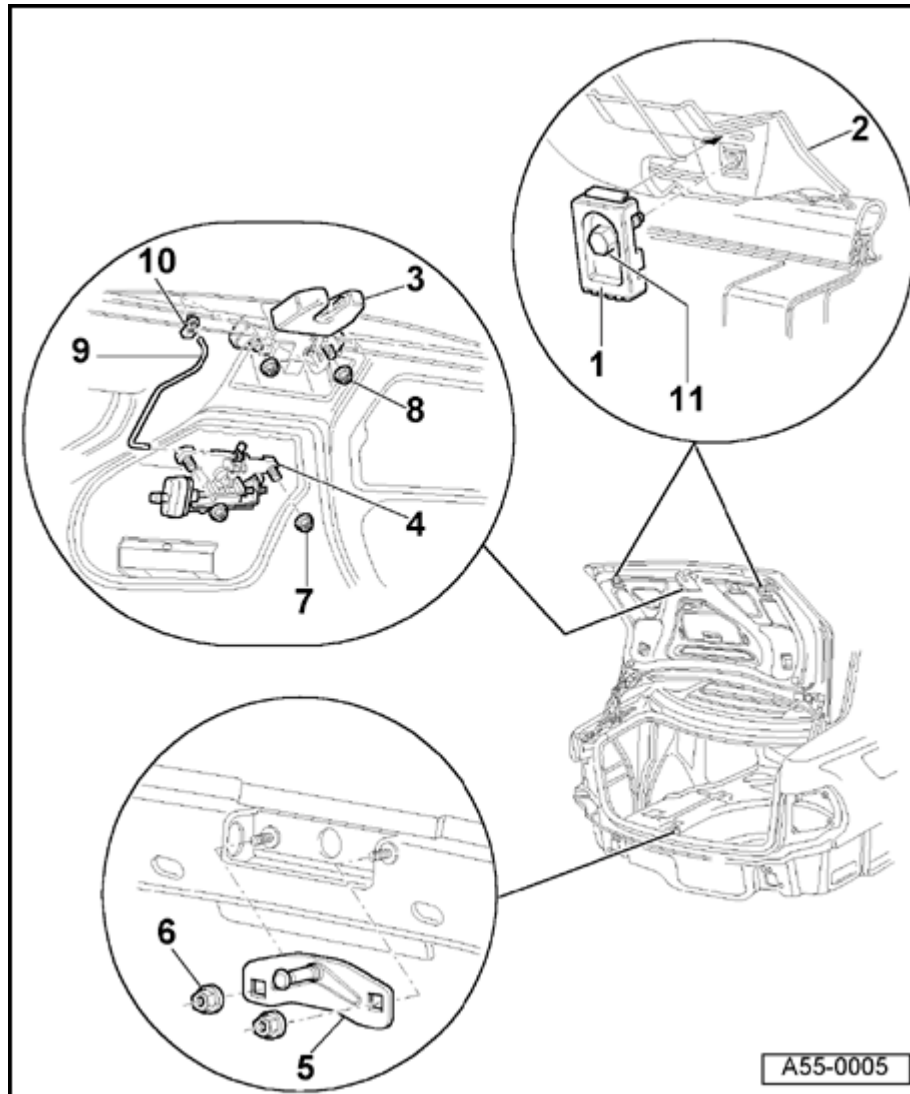
Rear lid (► m.y. 1999 VIN 8D XA 200 000)

Rear lid and rear lid lock, removing, installing and adjusting

1 - Stop buffer (2x)

Adjusting:

- Loosen bolt -11- and detach stop buffer.
- Tighten bolt -11- finger-tight (it must still be possible to move stop buffer).
- Carefully close rear lid until lid is flush with rear side panels.
- Carefully open rear lid -3-.
- Pull stop buffer -1- out two catches (1 mm preload) and tighten bolt -2- to 6 Nm $\pm$ 0.5 Nm (53 in. lb $\pm$ 4 in. lb).



2 - Rear lid

Removing:

- Remove warning triangle and holder ⇒ [page 55-21](#) .
- Remove rear lid lining.
- Disconnect and unclip electrical wiring harness connectors.
- Unclip vacuum line for central locking system.
- Second person is needed to remove lid
 - Remove nuts for rear lid hinges ⇒ [page 55-16](#) .

Installing:

- Install in reverse order of removal.

Adjusting:

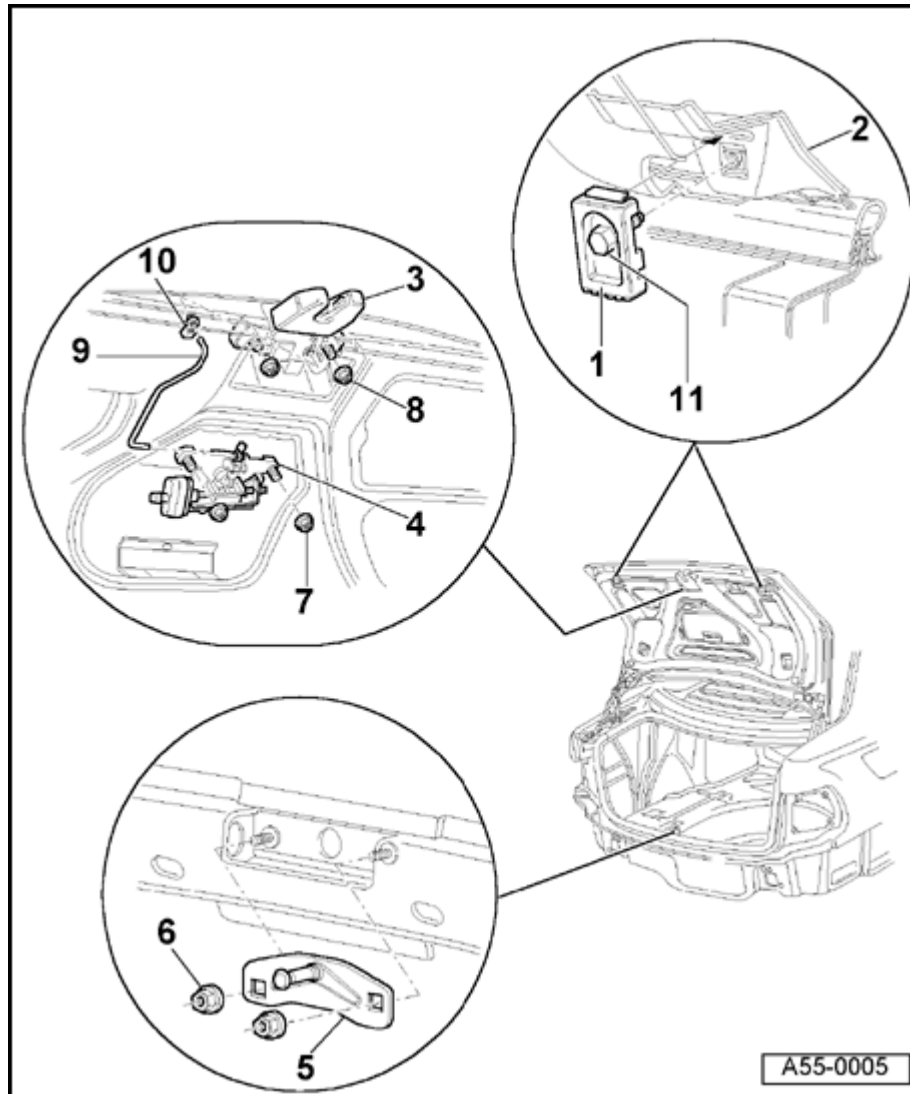
- Use rear lid hinges to center and adjust height of rear lid ⇒ [page 55-17](#) .
- Adjust stop buffers -1-.
- Adjust striker plate -5-.
- Center lid according to panel gap dimensions ⇒ [page 55-20](#) .

3 - Rear lid lock

- Unclip operating rod -9-.

- Unscrew nuts -8-.

55-14



4 - Locking cylinder

- Remove warning triangle and holder ⇒ [page 55-21](#) .
- Remove rear lid lining.
- Disconnect vacuum line for central locking system.
- Disconnect harness connectors.
- Unclip operating rod -9-.
- Remove bolts -7-.

5 - Striker plate

- Unscrew nuts -6-.

Adjusting:

- Tighten nuts -6- finger-tight (it must still be possible to move striker plate).
- Carefully close rear lid until lid is flush with rear side panels.
- Carefully open lid and tighten nuts -6-.

6 - Hex nut

- ◆ 8 Nm (71 in. lb)

7 - Hex nut

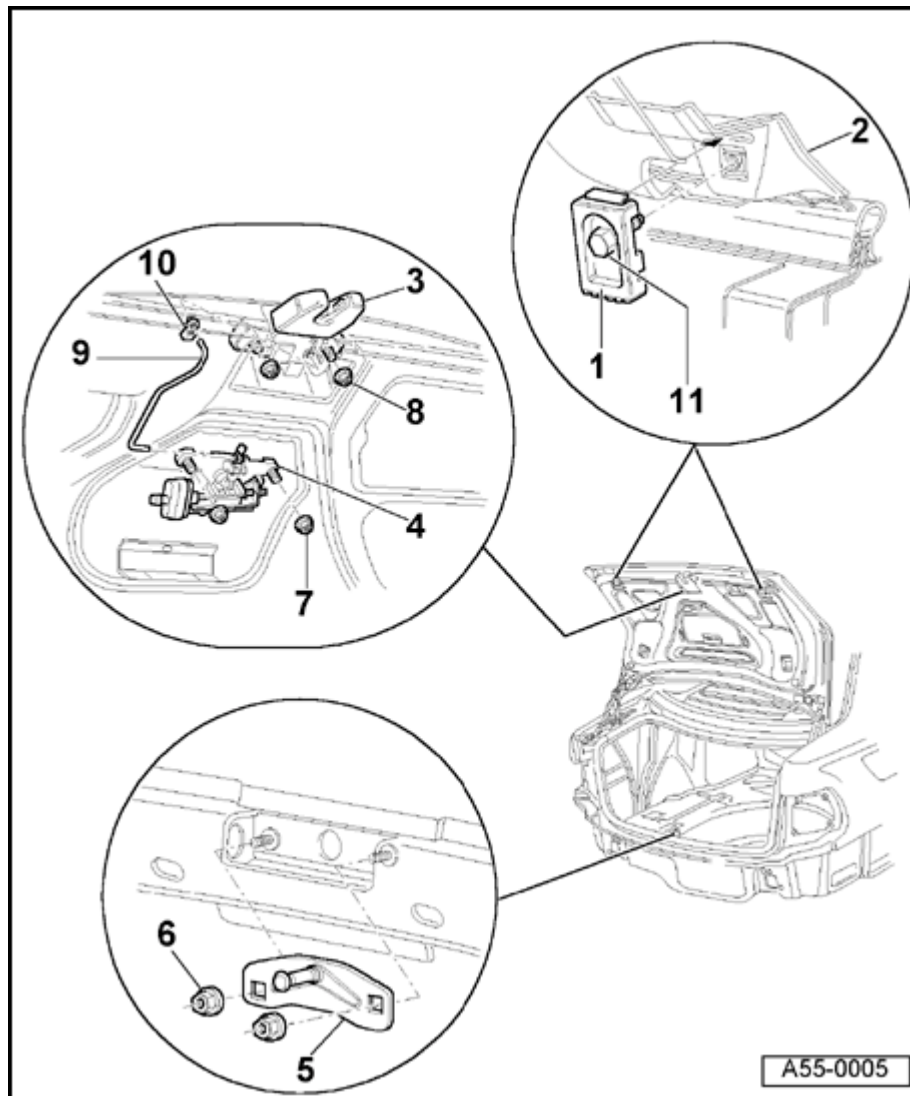
- ◆ 8 Nm (71 in. lb)

8 - Hex nut

◆ 6 Nm (53 in. lb)

9 - Operating rod

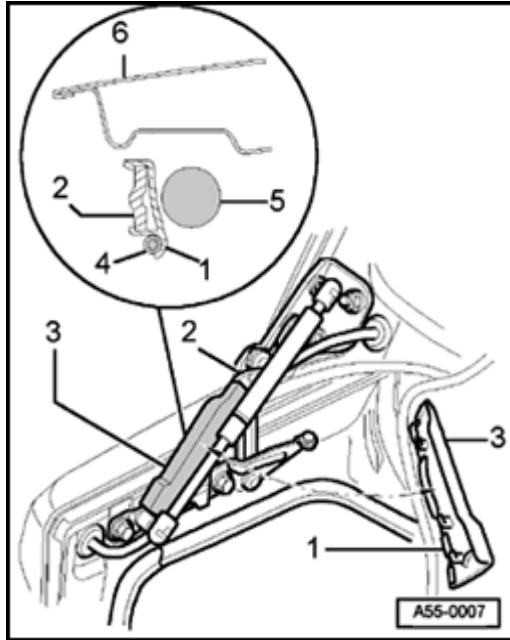
55-15

**10 - Retaining clip****11 - Hex bolt**

◆ 6 Nm (53 in. lb)

Rear lid hinge, removing and installing

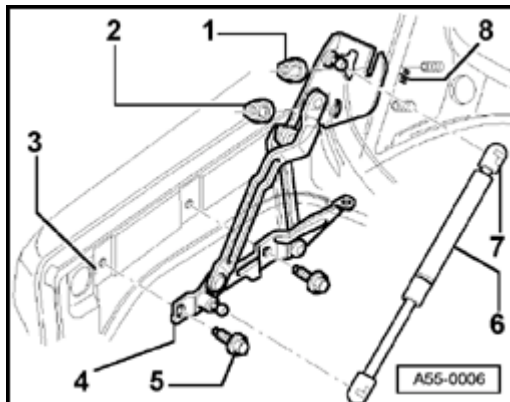
Rear lid hinge cover



A

- Insert wiring and tubing for central locking system -4- into lower recess of cable guide at cover -1-.
- From below, attach cover -3- for rear lid hinge between gas-filled strut -5- and hinge lever, and clip onto hinge lever -2- at top so it engages audibly.

Removing and installing rear lid hinge



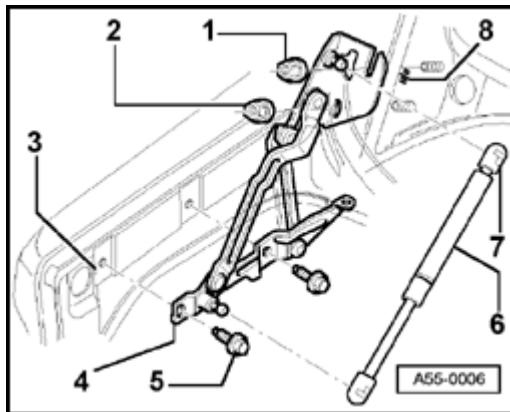
A

- Loosen nuts -1- at top on left and right.
Tightening torque: 21 Nm (15 ft lb)
- Remove nuts -2- at bottom on left and right.
Tightening torque: 21 Nm (15 ft lb)
- Prop up or secure lid in open position.

55-17

- Remove bolts -5- (2x).

Tightening torque: 21 Nm (15 ft lb)

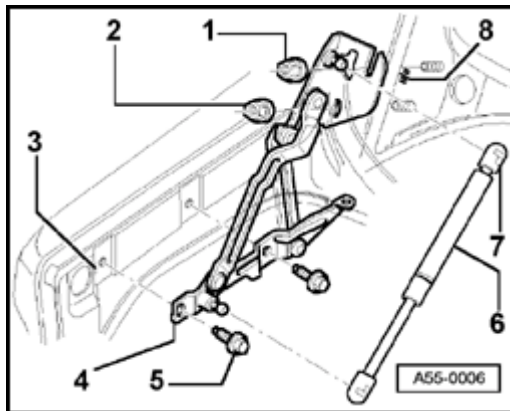


- Lift lid slightly and remove hinge -4-.

Note:

For easier adjustment of the rear lid hinge, use graduations -3- and -8- marked on the hinge and the rear lid.

Removing and installing gas-filled strut



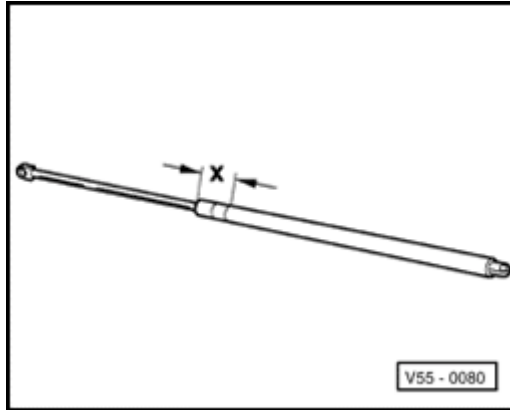
- Using screwdriver, push back retaining springs -7- slightly at both ends of gas-filled strut and clip or unclip gas-filled strut as desired.

Note:

When removing or installing the gas-filled strut, push back the opened rear lid slightly beyond its normal position, being careful not to damage components.

Installing

- Clip in gas-filled strut at bottom first, then at top.
- Install with tube end of strut at rear lid.



Releasing gas from strut



- Clamp gas-filled strut in vice area -x-.
Dimension -x- = 50 mm (2 in.)
- Using saw, cut into cylindrical part of strut at point within first third of cylinder's length (measured from piston rod end of cylinder).

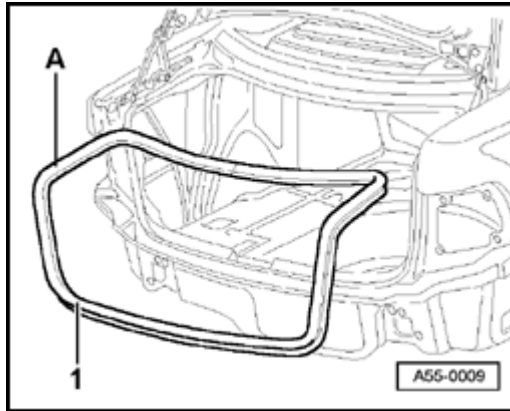
WARNING!

Clamp only in the area shown; otherwise there is a risk of an accident!

Note:

Always wear eye protection when performing this procedure. Cover the sawing area with a clean rag to contain any escaping fluid.

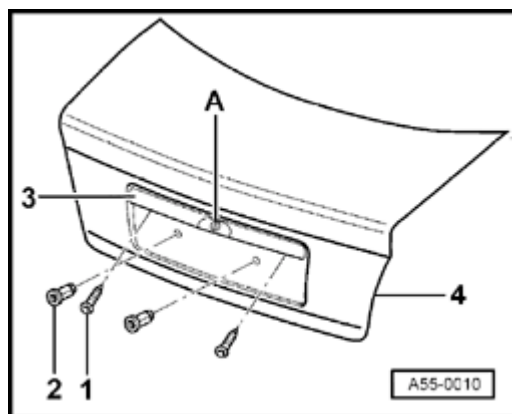
Rear lid seal, installing



The butt joint -A- of the rear lid seal must be aligned with the ball socket of left hinge.

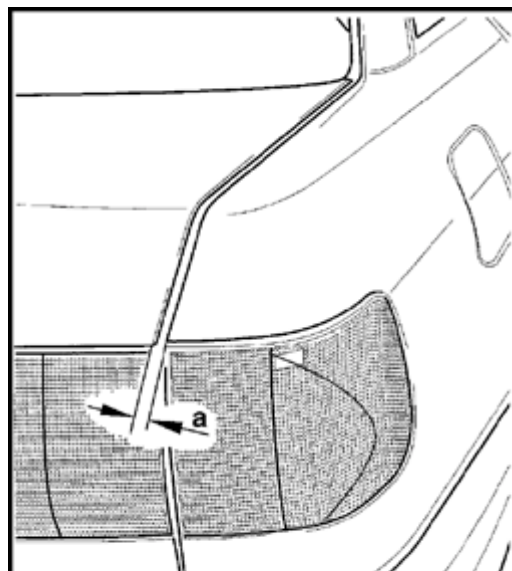
55-20

Removing and installing handle mechanism for rear lid



- Remove bolts -1- (2x).
Tightening torque: 2.5 Nm (22 in. lb)
- Attachment point -A-; remove nuts (2x) for lock cylinder on inside of lid.
Tightening torque: 6 Nm (53 in. lb)
- Pull handle mechanism -3- out enough that harness connectors for both license plate lights can be disconnected.
- Remove handle mechanism.
- Install nuts -2- (2x) using special tool VAG1618A.

Panel gap dimensions



- a- = 3.0 mm

55-21

Removing and installing holder for warning triangle



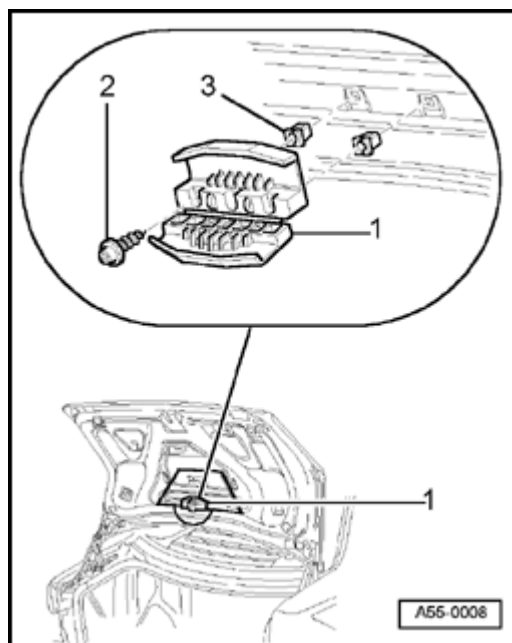
- Remove warning triangle.

- Remove bolts -2- (2x).

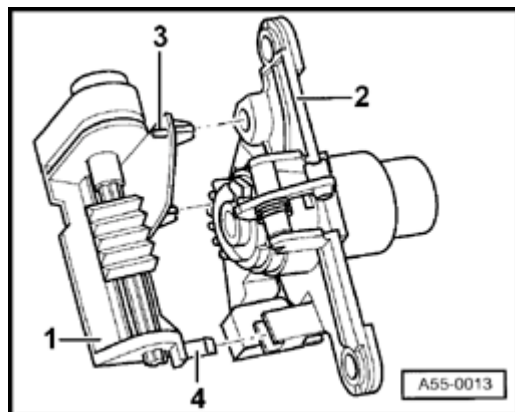
Tightening torque: 2 Nm

1 - Holder

3 - Expanding clips (2x)

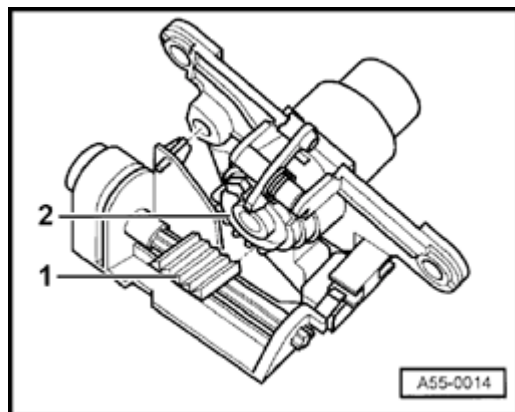


Rear lid lock actuator, removing and installing



Removing

- Remove lock cylinder ⇒ [page 55-14](#) .
- Push out retaining pins -3- (2x).
- Push tab -4- back and disconnect.
- Remove rear lid lock actuator -1-.

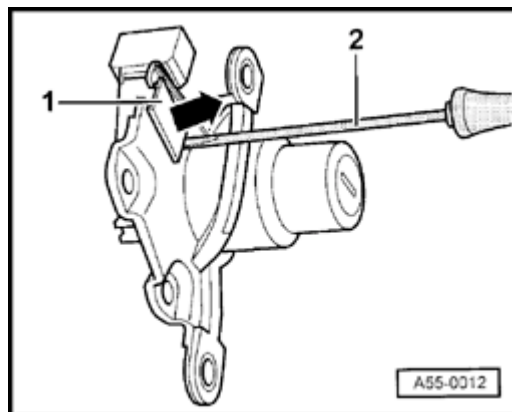


Installing

- Set lock cylinders in "open" position.
 - Slide ridged plate -1- to left.
- First ridge on plate -1- must snap into first groove on grooved segment -2-.

Rear lid microswitch, removing

- Remove lock cylinder ⇒ [page 55-14](#) .

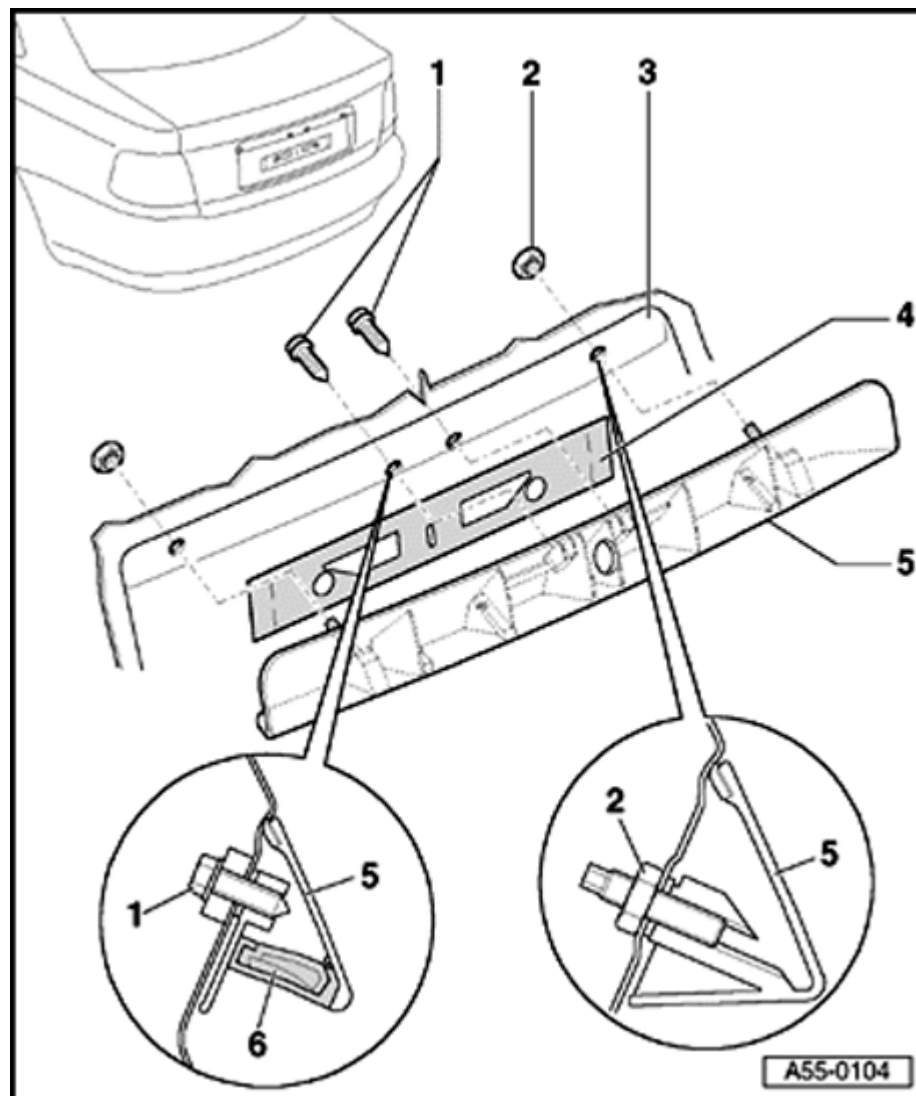


- Disengage microswitch -1- in direction of arrow and carefully push out using screwdriver.

Notes:

- ◆ *The lock cylinder cannot be adjusted for compatibility with other locks using standard tools.*
- ◆ *In order to maintain single key capability, the lock cylinder must be ordered according to the lock number.*

55-24



Rear lid (m.y. 1999 VIN 8D XA 200 001 ➤)

Grip piece, removing and installing

1 - Hex bolt

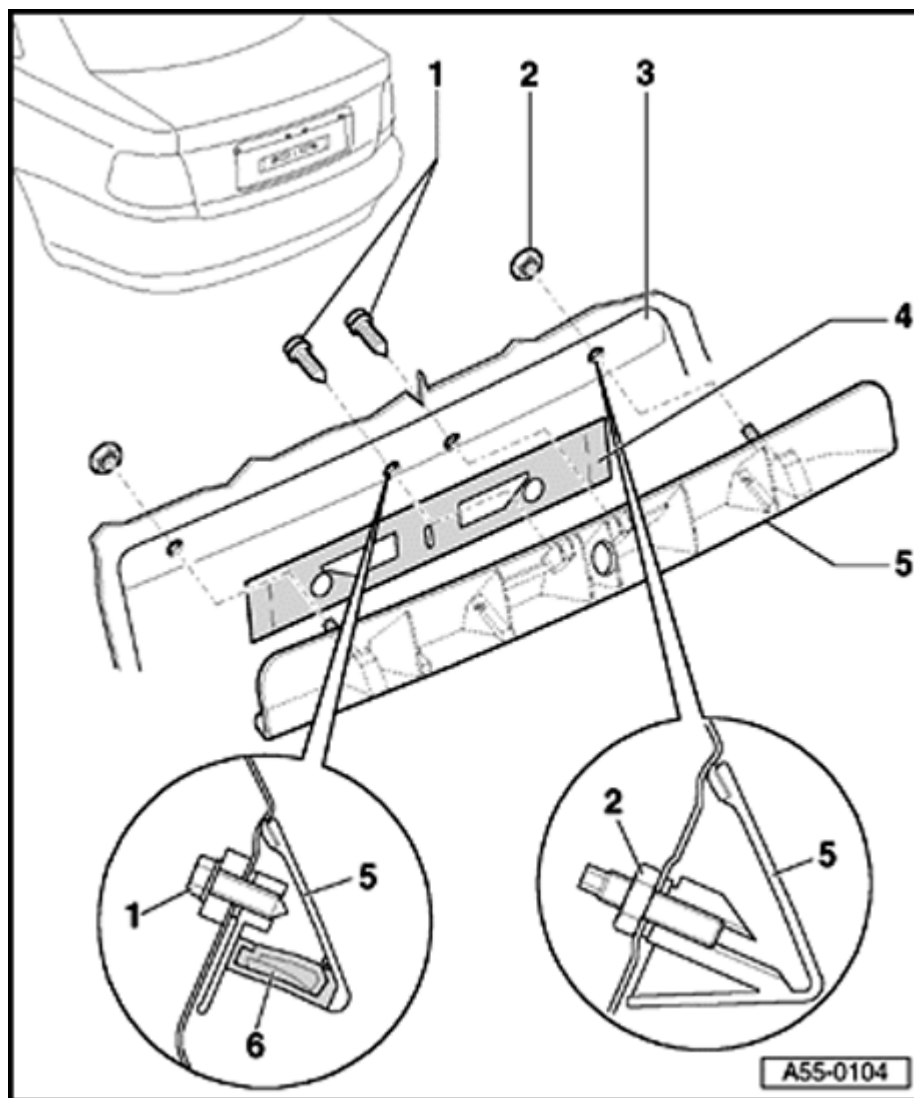
◆ 8 Nm

2 - Hex nut

◆ 8 Nm

3 - Tailgate

4 - Seal



5 - Grip piece

Removing:

- Before removal, remove tailgate trim.

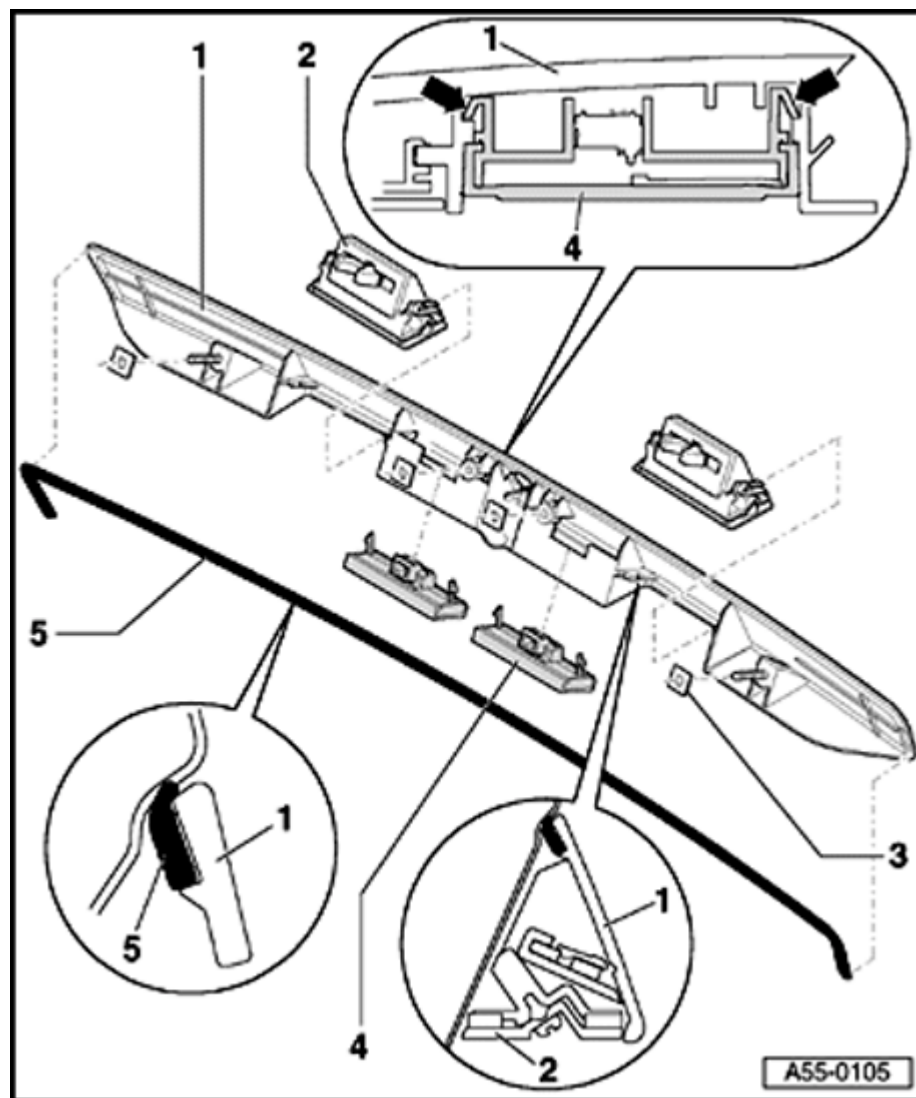
⇒ [Repair Manual, Body-Interior, Repair Group 70](#)

- Disconnect electrical harness connector for license plate lights and switch for rear lid release.
- Remove hex bolts -1- and hex nuts -3-.
- ◆ Locking system is removed from rear lid via interior of luggage compartment
- Pull grip piece out of rear lid.

Installing:

- First tighten both hex nuts -2- to 8 Nm.
- Then secure locking system using hex bolts -1- and tighten bolts to 8 Nm.
- Re-connect electrical connection.

55-26



Rear lid microswitch, removing and installing

1 - Grip piece

2 - License plate lights

3 - Sealing washer

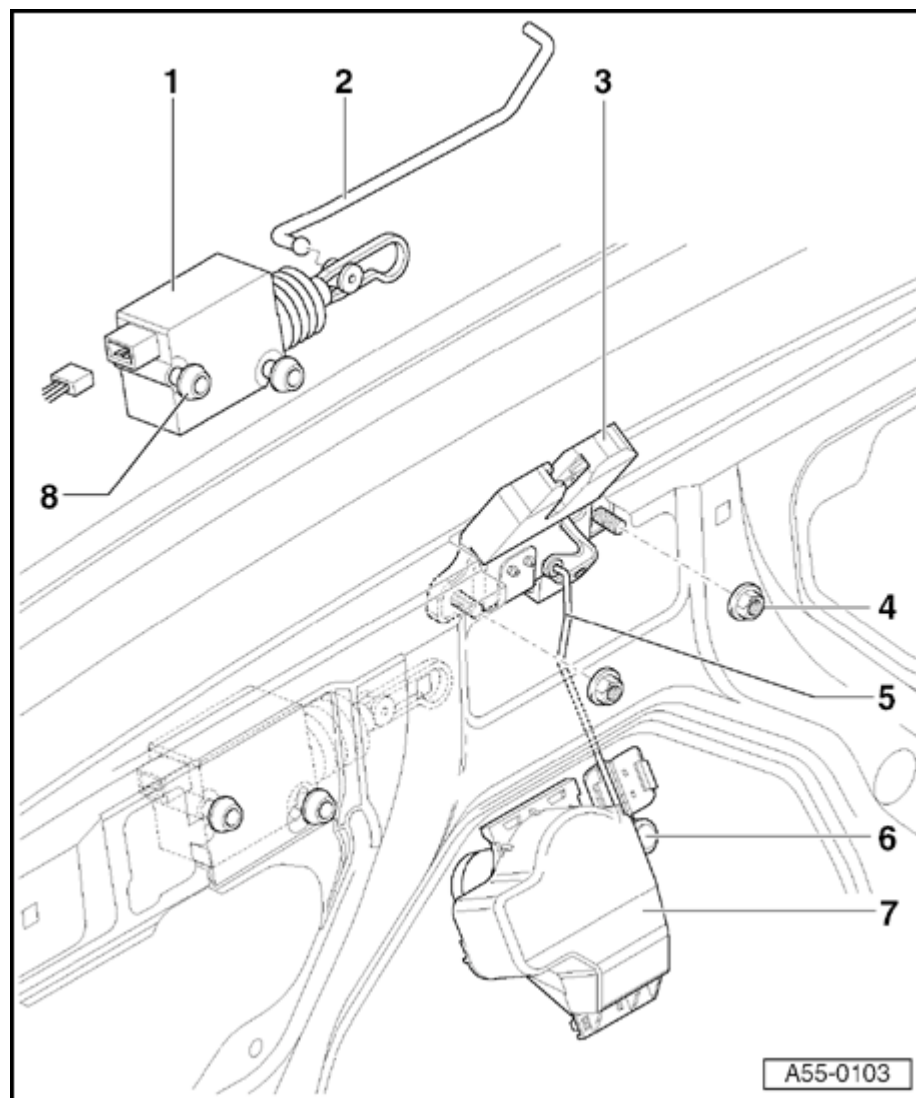
4 - Rear lid microswitch

- Disconnect electrical connectors.
- Remove grip piece.
- Release locking mechanism (arrow) and remove microswitch.

5 - Seal

- ◆ Adhesion surface must be free of dust and grease
- ◆ Self adhesive; remove protective foil before application and press seal on in center

55-27



Tailgate lock, removing and installing

1 - Rear lid lock actuator

- ◆ Before removing, first disengage operating rod -2- from rear lid lock ⇒ [Fig. 6](#)
 - Disconnect electrical harness connector.
 - Remove Torx bolts -8-.

2 - Operating rod

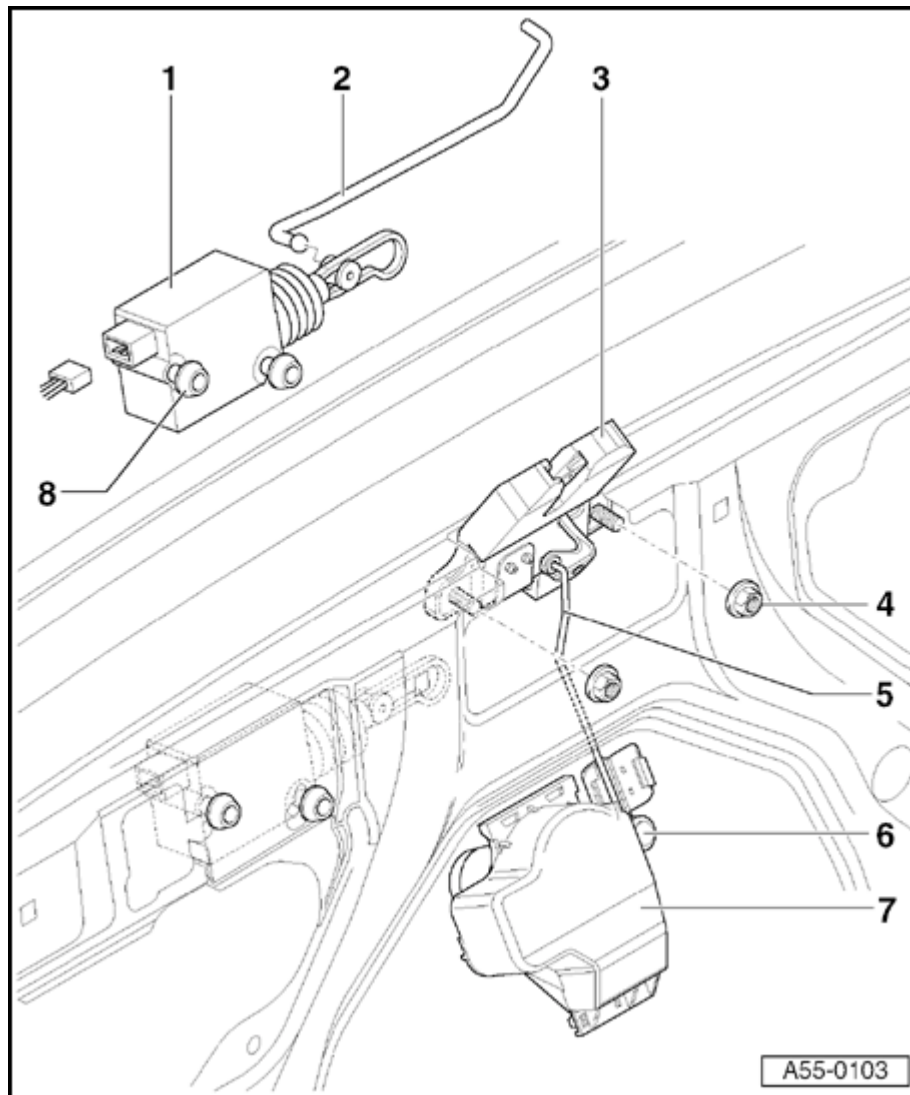
- ◆ Disengage and engage in rear lid lock ⇒ [Fig. 6](#)

3 - Tailgate lock

Removing:

- Disengage operating rod -2- and connecting rod -5- from rear lid lock.
- Disconnect electrical harness connector.
- Remove hex nuts -4- and take out rear lid lock.

55-28

**4 - Hex nut**

◆ 8 Nm

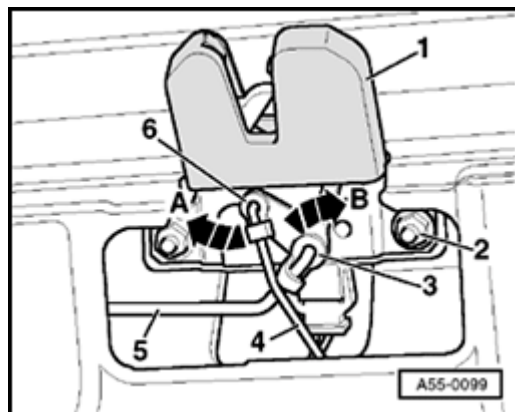
5 - Operating rod◆ Unclip and clip in rear lid lock ⇒ [Fig. 6](#)**6 - Hex nut**

◆ 8 Nm

7 - Lock mechanism◆ Removing ⇒ [page 55-30](#)**8 - Torx screw**

◆ 2.5 Nm

55-29



A

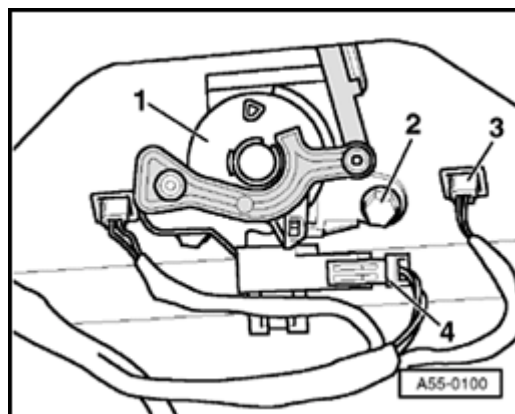
Fig. 6 Disengaging and engaging operating and connecting rods

- Swing hinge arm -6- in direction of arrow -A- and pull out connecting rod -4-.
- Swing hinge arm -3- in direction of arrow -B- and pull out connecting rod -5-.
- To remove rear lid lock -1- remove hex bolts -2-.

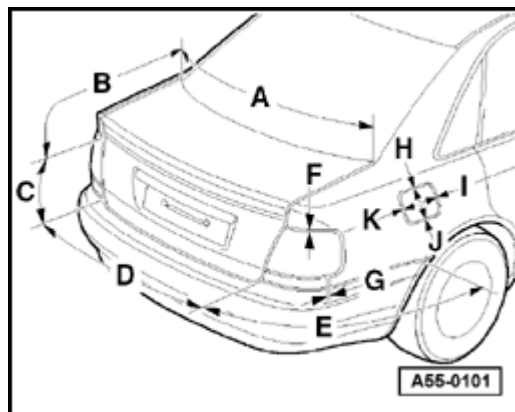
55-30

Tailgate lock system, removing and installing

- Remove tailgate trim.
- Disengage connecting rod to rear lid lock.
- Disconnect harness connectors -3- from microswitch and -4- from locking system.
- Remove hex bolts -2- and locking system -1- from rear lid.



55-31



4 Tailgate gap, dimensions

Letter	Actual gap dimension (mm)	Parrallelism (mm)
A	$4.7 + 1.5$	
B	$2.9 + 1$	1
C	$3.3 + 1$	
D	$4.9 + 1$	1
E	$3.5 + 1$	0.5
F	$2.5 + 0.5$	0.5
G	$1.5 + 0.5$	0.2
H	2.5 ± 0.1	
I	3.3 ± 0.1	
J	3.3 ± 0.2	
K	3.0 ± 0.4	

55-32

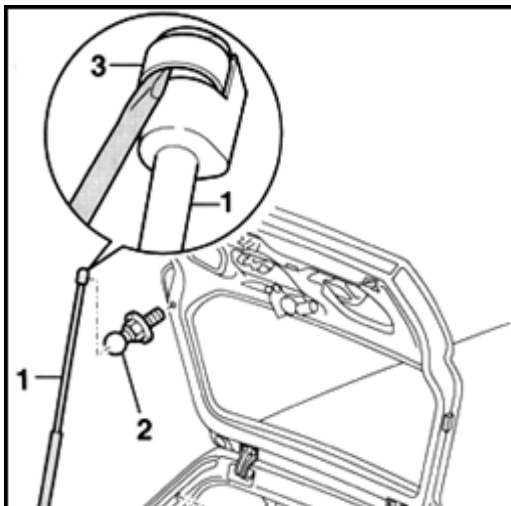
Tailgate (Avant), (► m.y. 1999 VIN 8D XA 200 000)

Tailgate, removing and installing

- Remove tailgate trim.

⇒ [Repair Manual, Body-Interior, Repair Group 70](#)

- Disconnect or remove harness connectors and hoses (i.e. for central locking and rear window washer system).
- Prop up and secure tailgate in open position.
- Using screwdriver, lift retaining spring -3- as shown and remove gas-filled strut -1- from upper ball stud -2-.



Note:

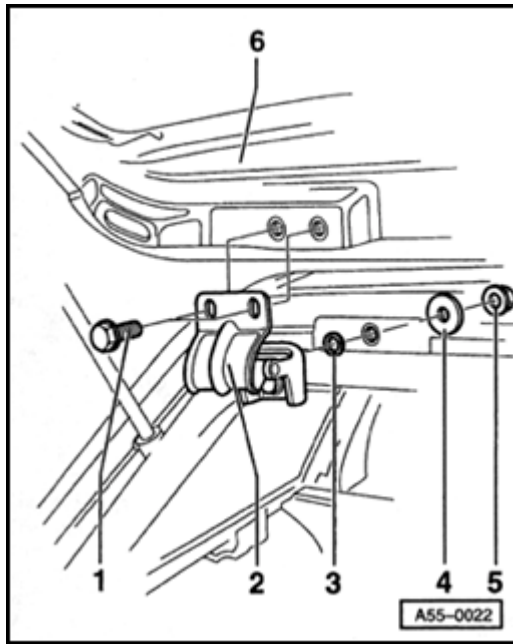
Following complete removal of gas-filled strut, check for correct positioning during installation.

Sound insulation components must be installed on the body side.

- To install, press gas-filled strut onto ball studs so that it engages in position.

Ball stud tightening torque: 15 Nm -1 Nm

55-33



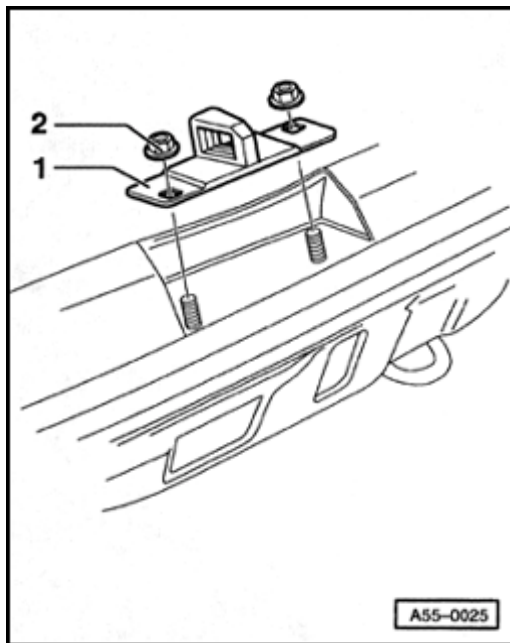
- Remove hex bolt -1- (2x) from tailgate -6-.
- Tightening torque: 21 Nm (15 ft lb)

55-34

Tailgate, adjusting

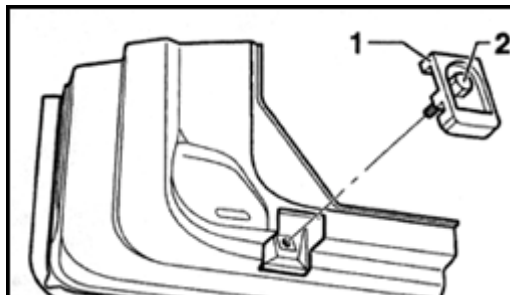
Note:

Before installing a new tailgate the gas-filled struts must be installed.



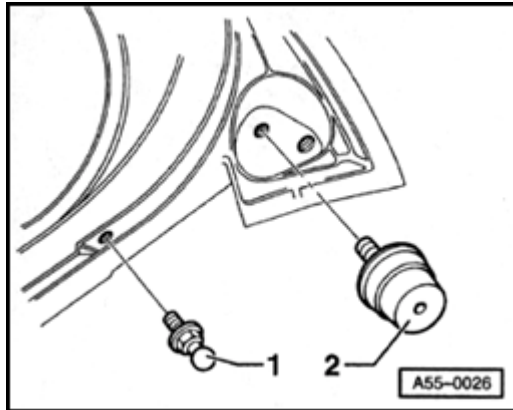
A

- Loosely attach striker -1- with nuts -2-.



A

- Loosely attach lower stop -1- (on trim of rear hatch) using hex bolt -2-.



A

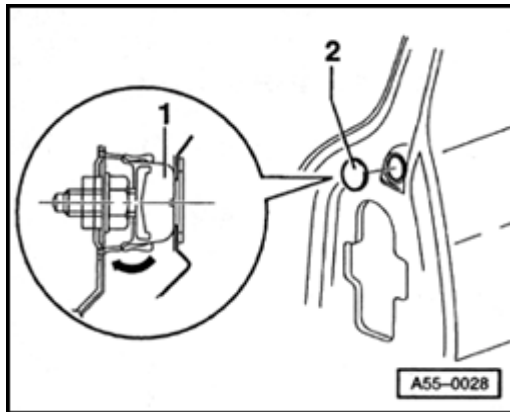
- Screw upper stop -2- in fully.
- Close rear hatch to appropriate position (flush).
Rear lock and striker must engage.
- Open rear hatch and tighten mounting nut for striker to 8 Nm (71 in. lb).
- Install clay onto upper stop.
- Close and open tailgate.
- Determine thickness of clay and adjust stop accordingly.
- Unscrew stop another 1.5 to 2 rotations.

Note:

Two (2) rotations represent a preload of 2.5 mm and a vertical shift of 0.8 mm at point -C- ⇒ [page 55-41](#) .

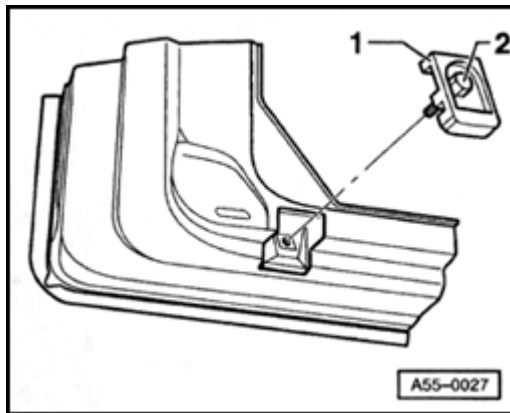
- Check shutting comfort and gap dimensions.

55-36



A

- Screw stop -1- into lock nut.
Tightening torque: 21 Nm (15 ft lb)
- Push cover on stop up toward tailgate surface (arrow).
- 2 - Protective cap

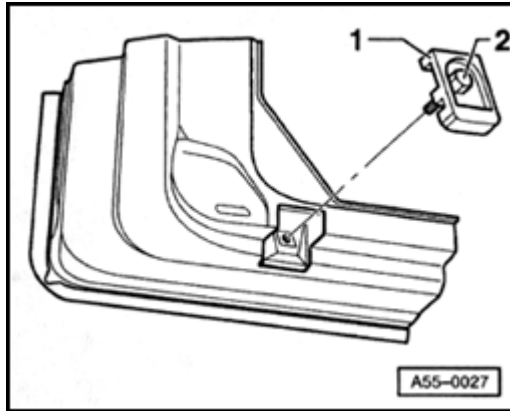


A

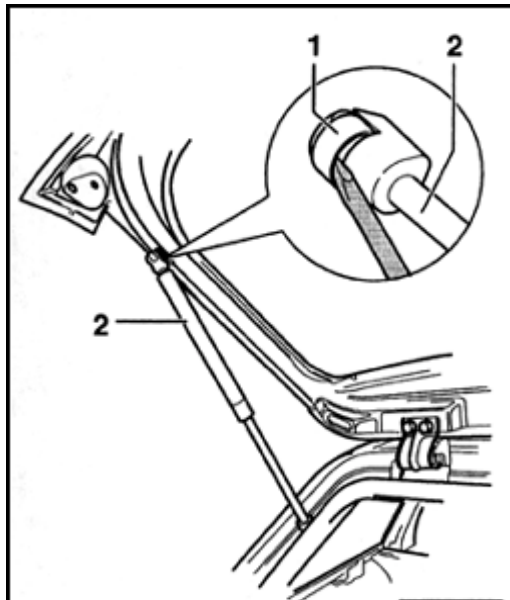
- Loosen hex bolt -2- and pull lower stop -1- out slightly.
- Tighten hex bolt -2- slightly and close rear hatch.
- Using sensor gauge, set stop -1- from inside at 1 mm clearance to tailgate trim.

CAUTION!

Stop buffers must not make contact with rear lid trim when rear lid is closed.

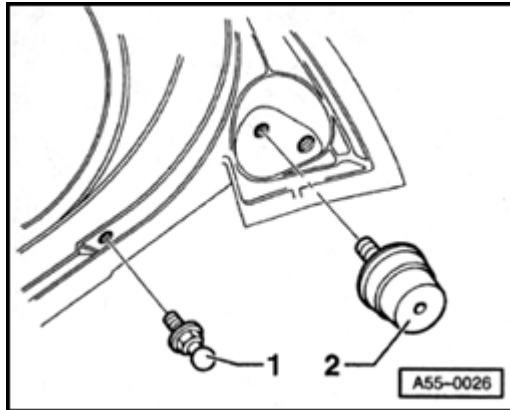


- Open hatch and tighten hex bolt -2- for stop to 8 Nm (71 in. lb).
- Check gap dimensions ⇒ [page 55-41](#) .

**Removing and installing gas-filled strut**

- Lift retaining spring on gas-filled strut -1- and remove strut from ball stud.
- To install, press gas-filled strut onto ball stud.

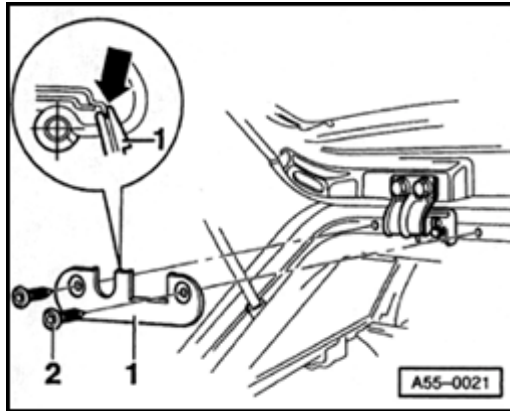
55-38

**Removing and installing ball stud**

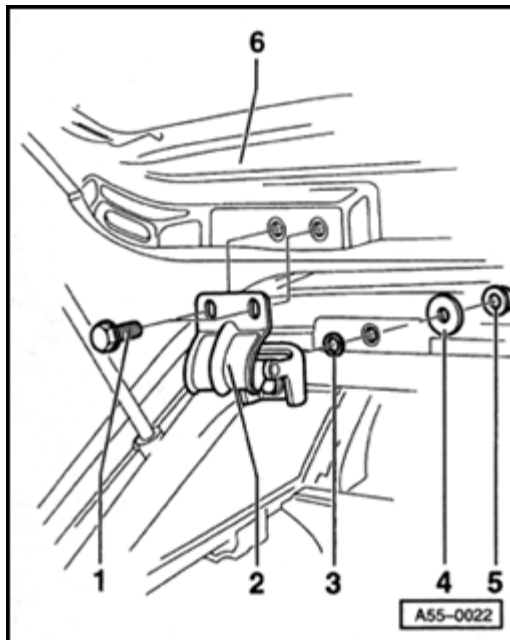
- Unscrew ball stud -1- and remove with seal.
- For installation, tighten to 14 Nm (10 ft lb).

55-39

Rear lid hinge, removing and installing

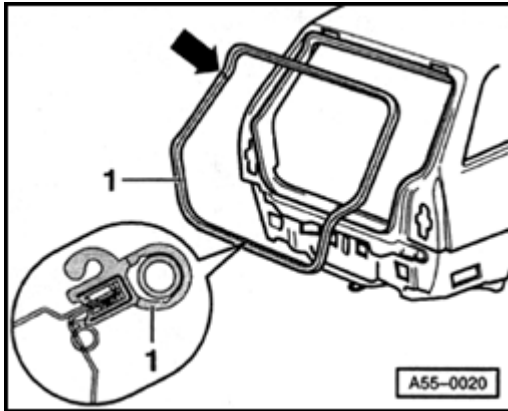


- Remove screws -2- and cover -1- for hinge.
- To install, first center cover -1- in notches (arrow) in roof flange and then tighten screws -2- to 2.5 Nm (22 in. lb).



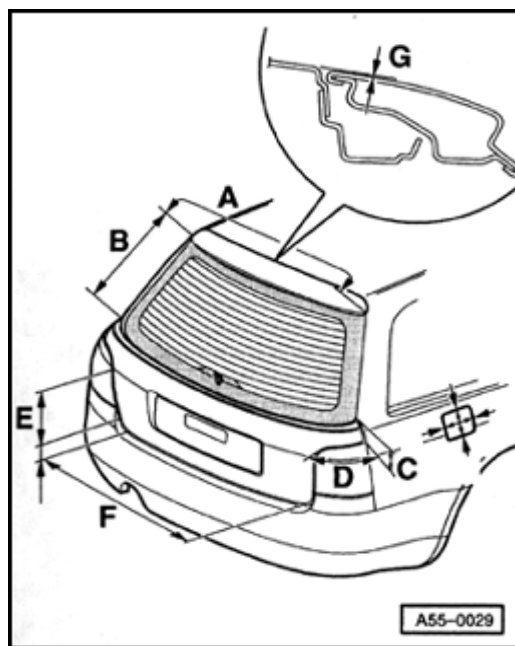
- Remove rear roof molding trim.
- ⇒ [Repair Manual, Body-Interior, Repair Group 70](#)
- Remove hex bolt -5-.
 - Remove hex bolt -1-.
 - Replace seal -3- during installation.
 - Tighten hex bolt and bolt to 21 Nm (15 ft lb).

Tailgate seal, removing and installing



- Open tailgate and remove seal.
- When installing, vulcanized butt joint (arrows) must be placed on body side at height of ball stud.
- Press seal -1- onto body as shown.

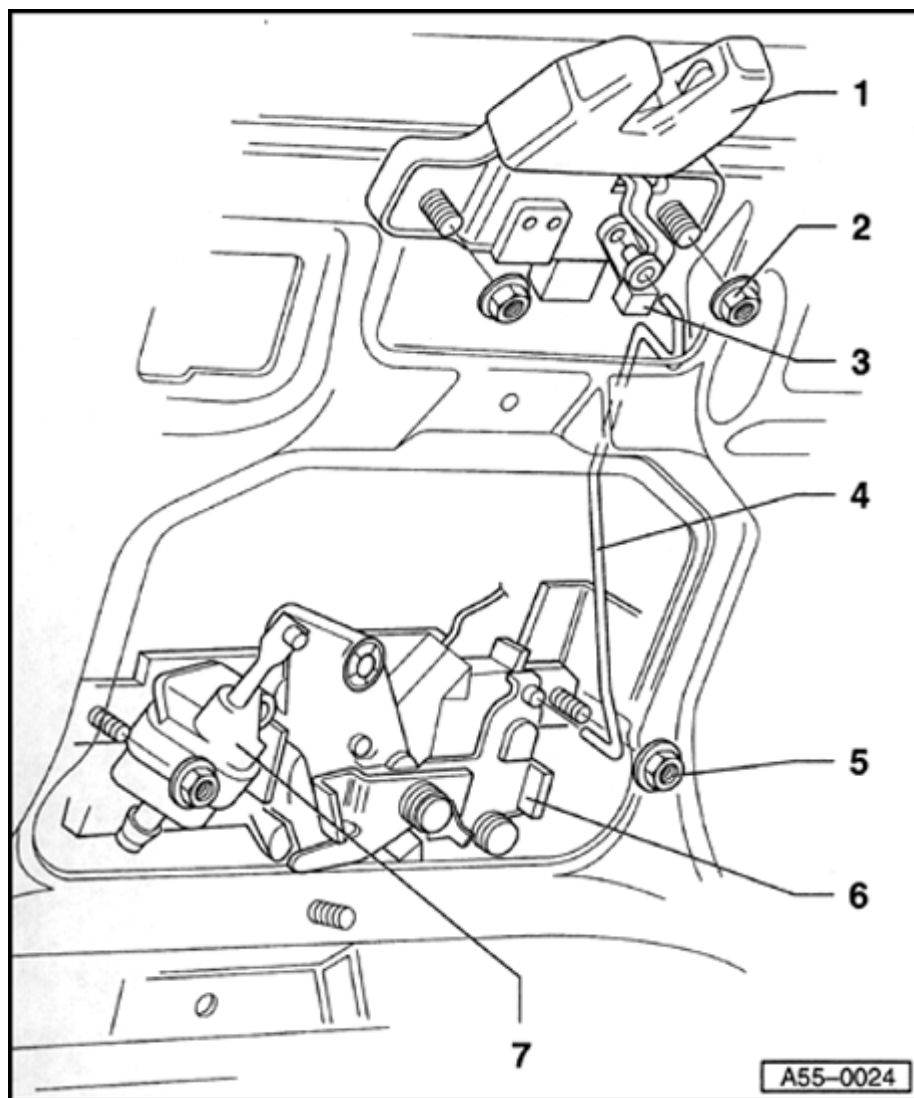
55-41



Gap dimensions, tailgate

Letter	Actual gap dimension (mm)	Parrallelism (mm)
-A-	4.0 +1	0.5
-B-	5.0 +1	1
-C-	4.0 +1	0.5
-D-	3.4 +1	0.5
-E-	3.4 +1	0.5
-F-	5.0+1	
-G-	1.0	
-H-	2.5 ± 0.1	
-I-	3.3 ± 0.1	
-J-	3.3 ± 0.2	
-K-	3.0 ± 0.4	

55-42



Tailgate lock, removing and installing

1 - Tailgate lock

- To remove, swing out hinge arm -3- from operating rod -4- and unhook operating rod from tailgate lock.
- Remove hex bolts -2- and tailgate lock.

2 - Hex nut

- ◆ 8 Nm (71 in. lb)

3 - Hinge arm

- ◆ Must be swung over operating rod -4-

4 - Operating rod

- To remove, first disengage from lock system -6-.

5 - Hex nut

- ◆ 8 Nm (71 in. lb)

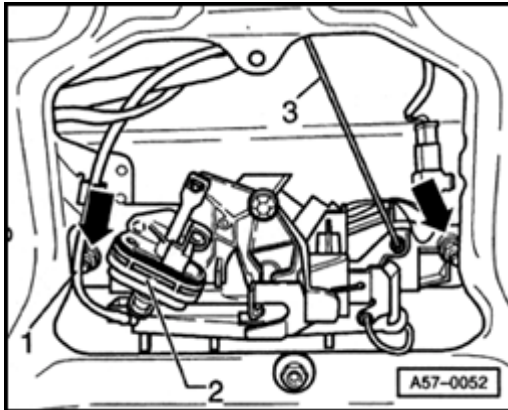
6 - Lock system

- ◆ Removing ⇒ [page 55-43](#)

7 - Tailgate lock actuator

- ◆ Removing ⇒ [page 55-44](#)

Tailgate lock system, removing and installing

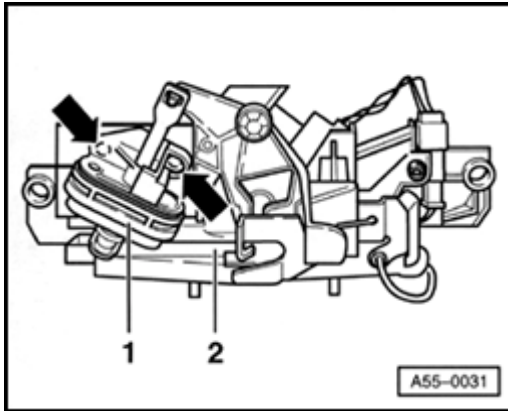
**A**

- Remove tailgate trim.

⇒ [Repair Manual, Body-Interior, Repair Group 70](#)

- Disengage lock system at plug for vacuum line -1- and remove from lock actuator -2-.
- Unclip operating rod -3-.
- Disengage locating hooks on release handle and remove ⇒ [page 55-47](#).
- Remove hex bolts (arrow) and remove lock system from tailgate.
Hex bolt tightening torque: 8 Nm (71 in. lb)

Lock actuator, removing and installing

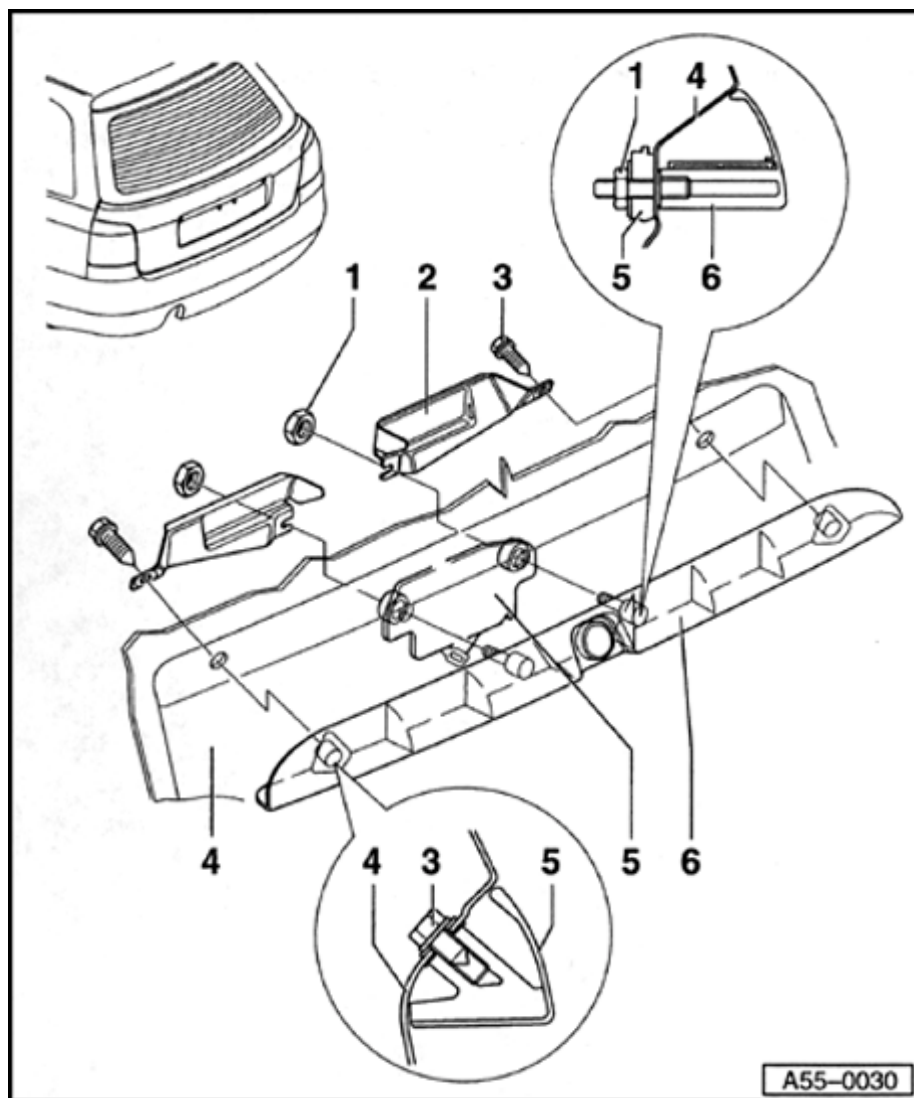


- Push out clamping pins (arrow) and remove lock actuator -1- from lock -2-.
- Clamping pins must be snapped into expanding clips again during installation.
- Pry out using screwdriver if necessary.

Note:

Illustration shows component after removal.

55-45



Grip piece, removing and installing

1 - Hex nut

◆ 8 Nm (71 in. lb)

2 - Bracket

- To remove, remove hex bolts -1- and bolts -3-.

Note:

Part was discontinued shortly following series launch.

3 - Hex bolt

◆ 8 Nm (71 in. lb)

4 - Tailgate

◆ Removing and installing ⇒ [page 55-32](#)

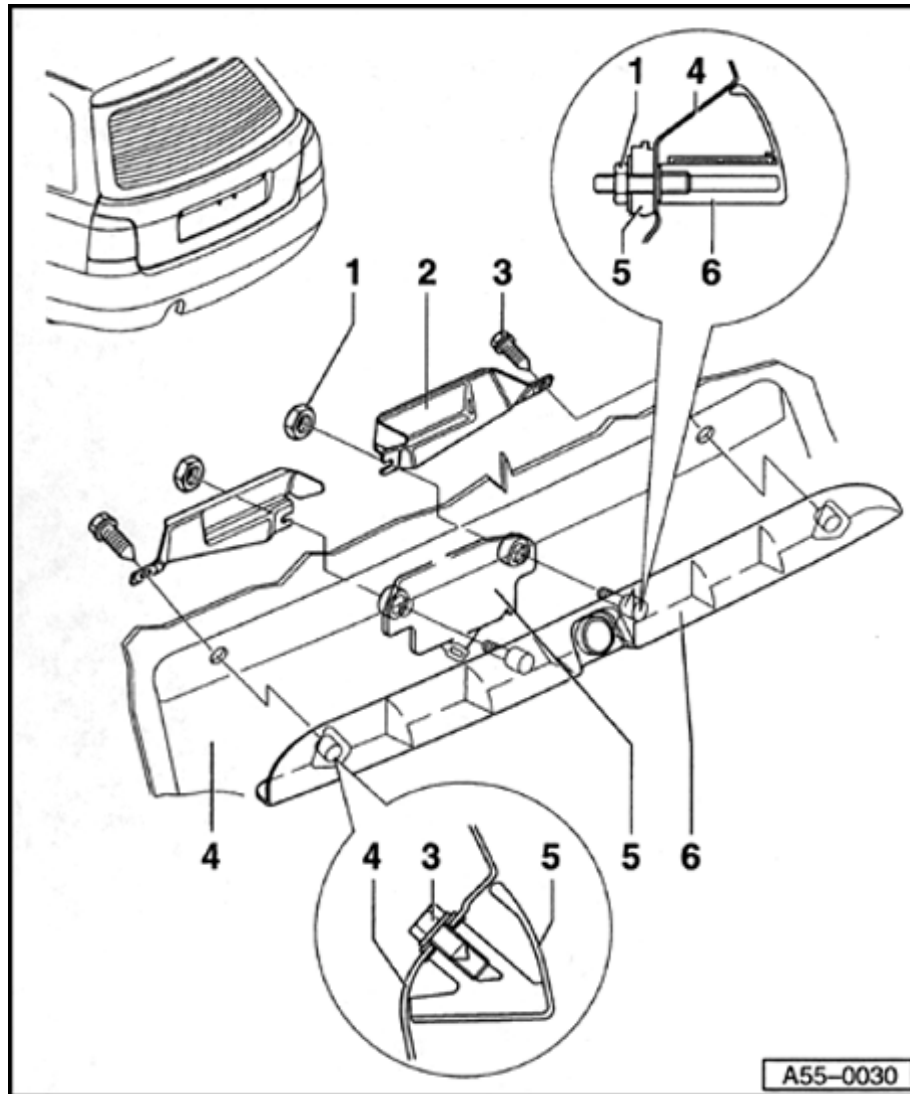
5 - Lock mechanism

- To remove, remove hex bolts -1-.

- Disengage locating hooks on release handle (⇒ [Fig. 1](#)) and remove.

- Remove lock mechanism.

55-46



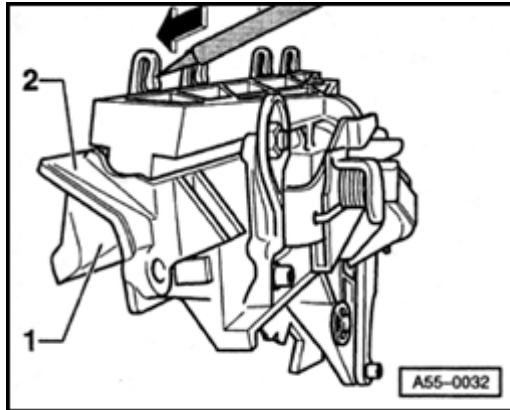
6 - Grip piece

- Before removal, remove tailgate trim.

⇒ [Repair Manual, Body-Interior, Repair Group 70](#)

- To remove, remove hex nuts -1- and bolts -3-.
- Pull grip piece slightly out of tailgate and disconnect harness connectors for license plate lights.
- To install, insert grip piece into tailgate holes.
- Thread bracket -2- at lock mechanism and attach to grip piece using external securing screws.

55-47



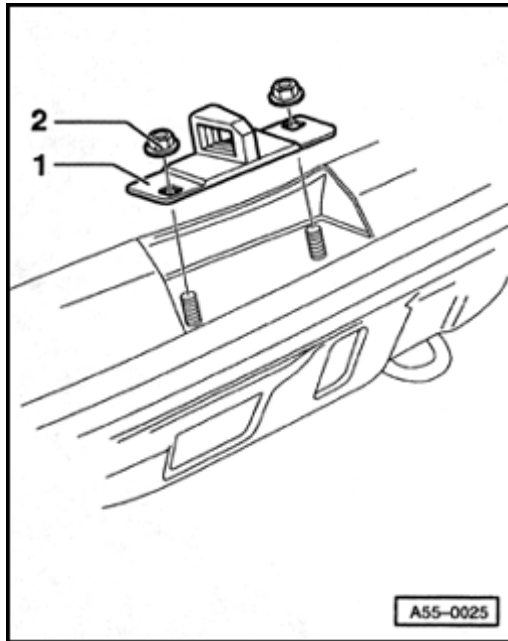
A

Fig. 1 Removing and installing lock unit

- Using screwdriver, press in and disengage securing hooks (arrow) on inside of tailgate.
- Pull release handle -1- down and out of lock system -2- under grip piece.

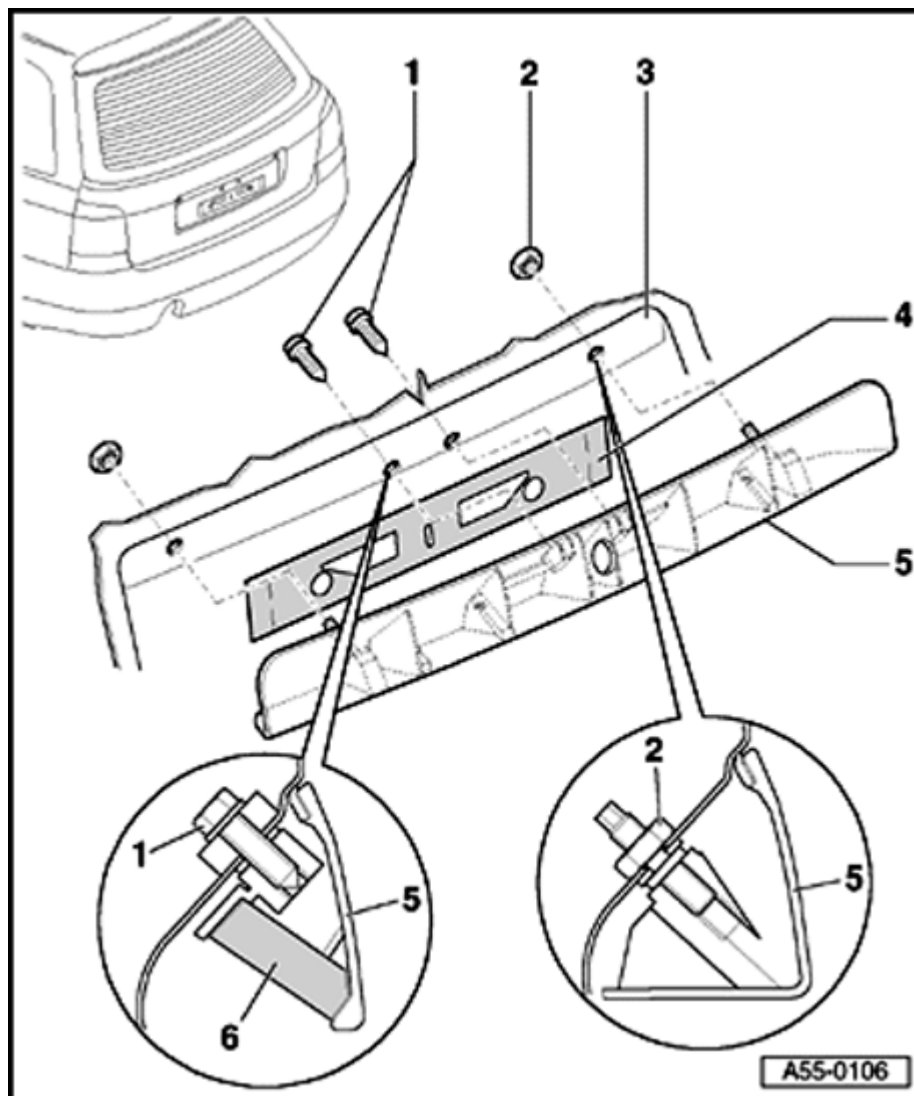
Tailgate striker, removing and installing

- Before removing striker, mark its position using soft pencil.

**A**

- To remove, unscrew hex nuts -2- and remove striker -1-.
- Position new striker according to markings and tighten hex nuts finger-tight.
- Close tailgate until lock engages and tailgate is in flush position.
- Open tailgate and tighten hex nuts to 8 Nm (71 in. lb).
- Check for flushness and shutting comfort; adjust if necessary.

55-49



Tailgate (Avant) (m.y. 1999 VIN 8D XA 200 001 ➤)

Grip piece, removing and installing

1 - Hex bolt

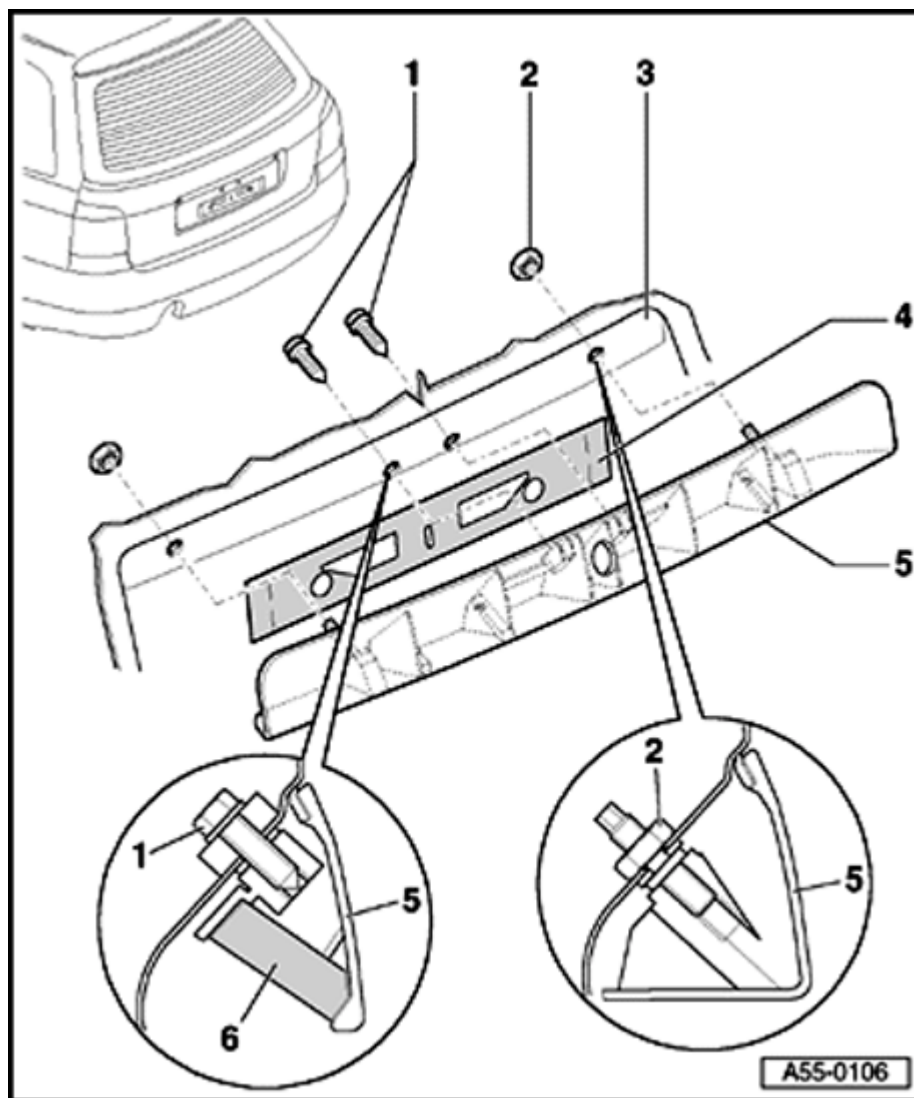
◆ 8 Nm

2 - Hex nut

◆ 8 Nm

3 - Tailgate

4 - Seal



5 - Grip piece

Removing:

- Before removing, remove tailgate trim.

⇒ [Repair Manual, Body-Interior, Repair Group 70](#)

- Disconnect electrical harness connector for license plate lights and switch for rear lid release.
- Remove hex bolts -1- and hex nuts -3-.
- Locking system is removed via interior of luggage compartment.
- Pull grip piece out of rear lid.

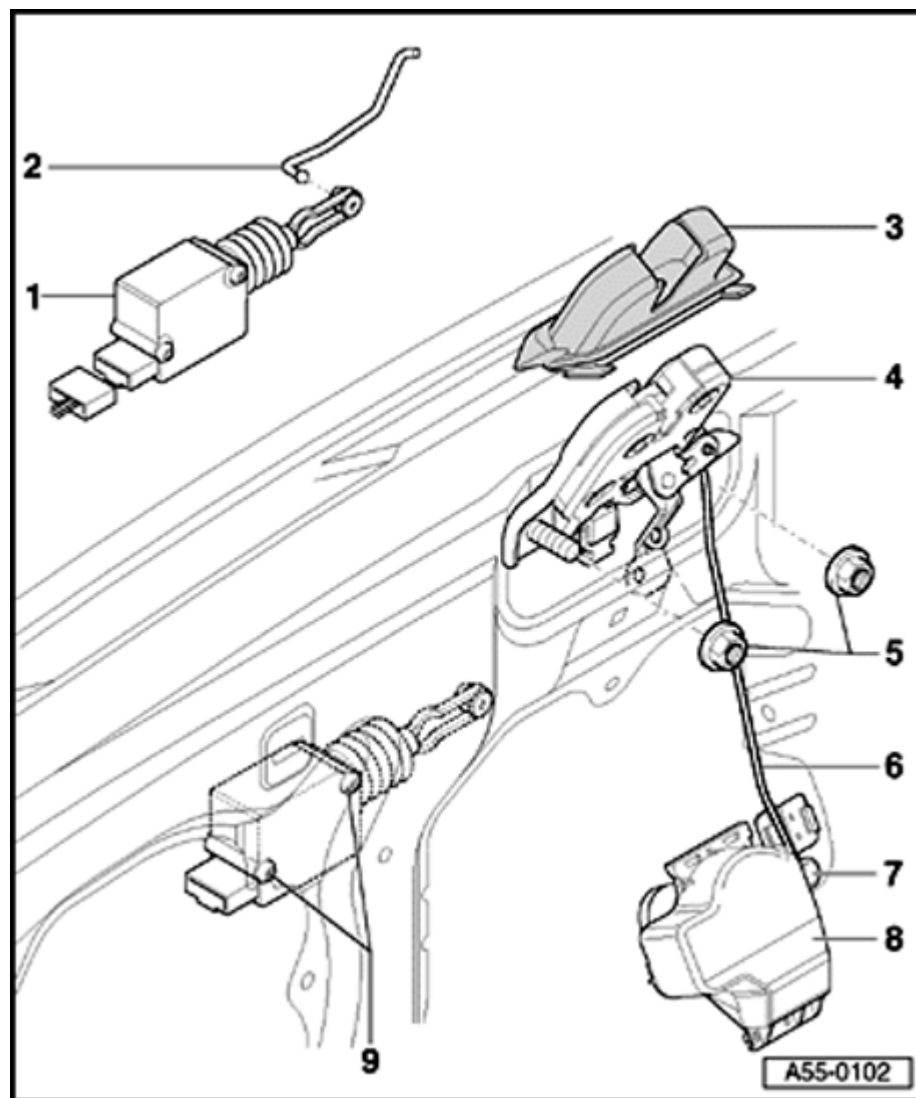
Installing:

- Install grip piece on rear lid via rear lid bore holes.
- First tighten both hex nuts -2- to 8 Nm.
- Then secure locking system using hex bolts -1- and tighten bolts to 8 Nm.

6 - Microswitch for rear lid release

♦ Removing ⇒ [page 55-26](#)

55-51



Tailgate lock, removing and installing

1 - Lock actuator for rear lid

- ◆ Before removing, first disengage operating rod -2- from rear lid lock ⇒ [Fig. 1](#)
- ◆ Remove Torx bolts -9- and take out actuator

2 - Operating rod

- ◆ Unclip and clip in rear lid lock ⇒ [Fig. 1](#)

3 - Cap

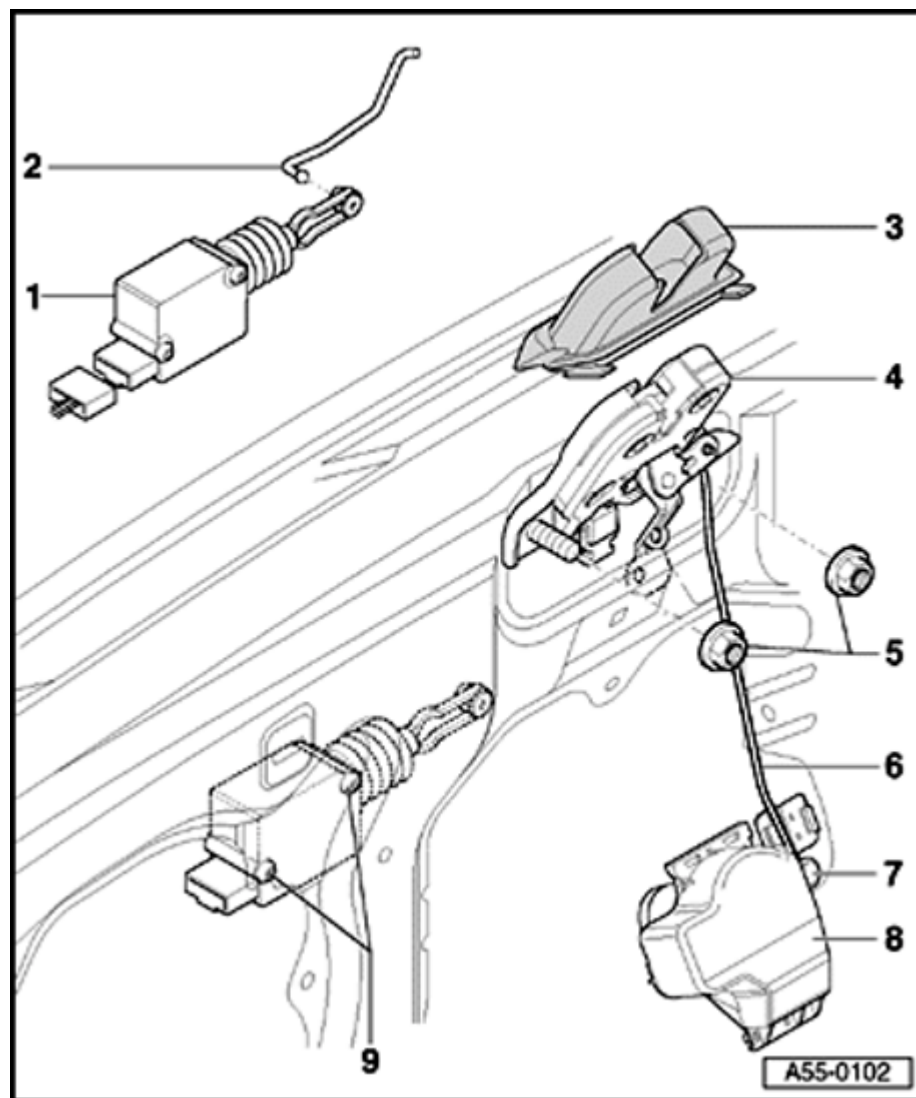
- ◆ To remove, unclip from rear lid lock and remove ⇒ [page 55-54](#) .

4 - Tailgate lock

Removing:

- Disengage operating rod -2- and connecting rod -6- from rear lid lock.
- Remove hex nuts -4- and take out rear lid lock.
- ◆ Locking system is removed from rear lid via interior of luggage compartment.
- Pull grip piece out of rear lid.

55-52



Installing:

- First tighten both hex nuts -2- to 8 Nm.
- Then secure locking system using hex bolts -1- and tighten bolts to 8 Nm.

5 - Hex nut

- ◆ 8 Nm

6 - Operating rod

- ◆ Unclip and clip in rear lid lock ⇒ [Fig. 1](#)

7 - Hex nut

- ◆ 8 Nm

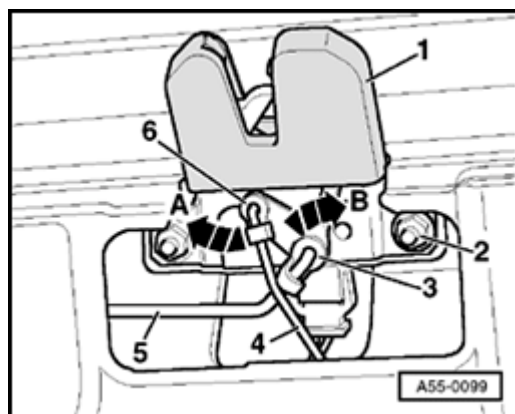
8 - Lock mechanism

- ◆ Removing ⇒ [page 55-55](#)

9 - Torx screw

- ◆ 2.5 Nm

55-53

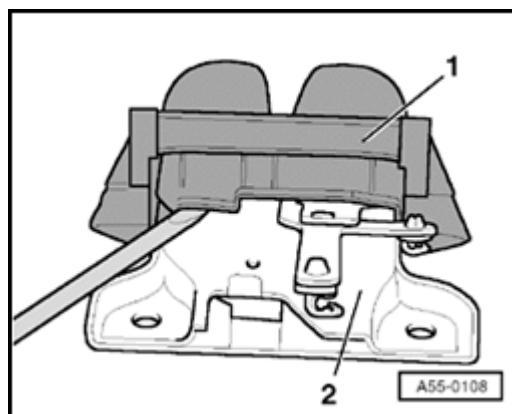


A

Fig. 1 Disengaging and engaging operating and connecting rods

- Swing hinge arm -6- in direction of arrow -A- and pull out connecting rod -4-.
- Swing hinge arm -3- in direction of arrow -B- and pull out connecting rod -5-.
- To remove rear lid lock -1- remove hex nuts -2-.

55-54

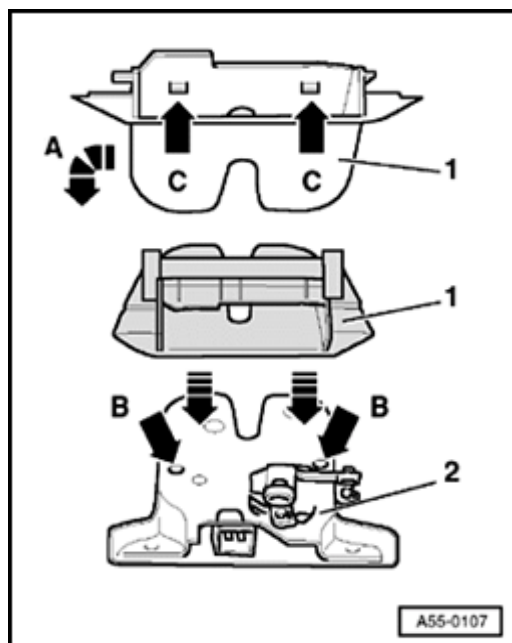


A

Fig. 2 Removing cover for rear lid lock**Note:**

Part is shown in removed condition for the sake of illustration.

- Tailgate trim must be removed before removing cover.
- To remove, disengage locking mechanisms (arrows) using a screwdriver and pull off cover.



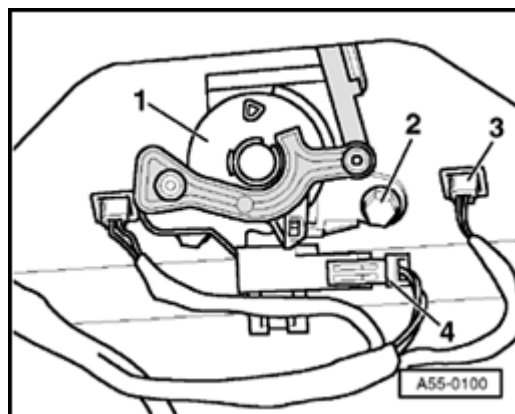
A

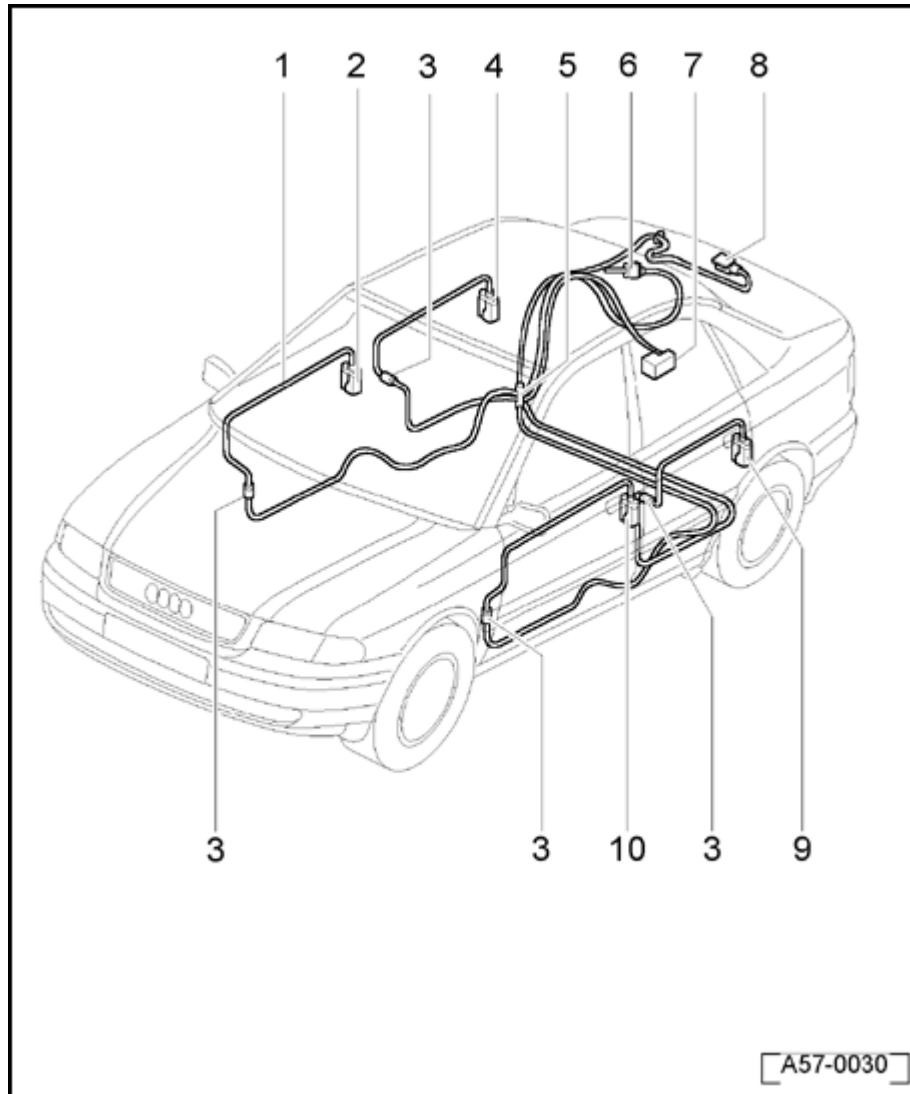
Fig. 3 Installing cover for rear lid lock

- Tilt cover 90° in direction of arrow -A-.
- Slide cover -1- onto rear lid lock -2- until retaining tabs (arrows -C-) engage completely in bore holes (arrows -B-) on both sides.
- Perform a function test for proper closure of rear lid.

Tailgate lock system, removing and installing

- Remove tailgate trim.
- Disengage connecting rod to rear lid lock.
- Disconnect harness connectors -3- from microswitch and -4- from locking system.
- Remove hex bolts -2- and locking system -1- from rear lid.





Central locking system

Assembly overview

1 - Vacuum line

2 - Right-front door lock actuator

- ◆ Removing and installing ⇒ [page 57-12](#)

3 - Vacuum line connectors

- ◆ Disengage harness connectors ⇒ [page 57-42](#)
- ◆ Additional vacuum line connectors are located at bottom of A-pillar and in boot at B-pillar

4 - Right-rear door lock actuator

- ◆ Removing and installing ⇒ [page 58-14](#)

5 - Fuel filler flap lock actuator

- ◆ Removing and installing ⇒ [page 57-46](#)

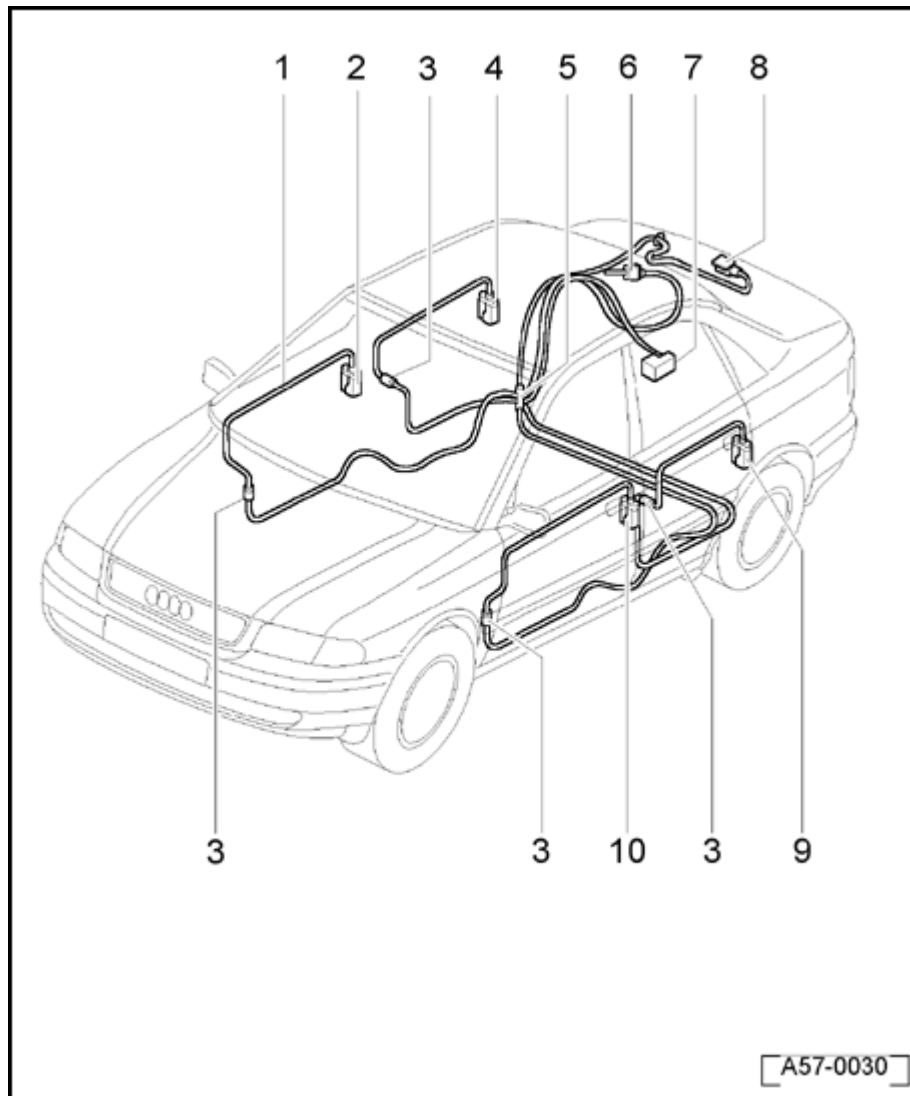
6 - Central locking system pump

- ◆ Removing and installing ⇒ [page 57-49](#)

7 - Distribution box

- ◆ Connected with all other wires excluding wire for rear lid

57-40

**8 - Left-front door lock actuator**

- ◆ Removing and installing same as for right door

9 - Rear lid lock actuator

- ◆ Removing and installing ⇒ [page 57-47](#)

10 - Left-rear door lock actuator

- ◆ Removing and installing same as for right door

Repairing central locking system

For additional information ⇒ Electrical Wiring Diagrams, Troubleshooting & Component Locations binder.

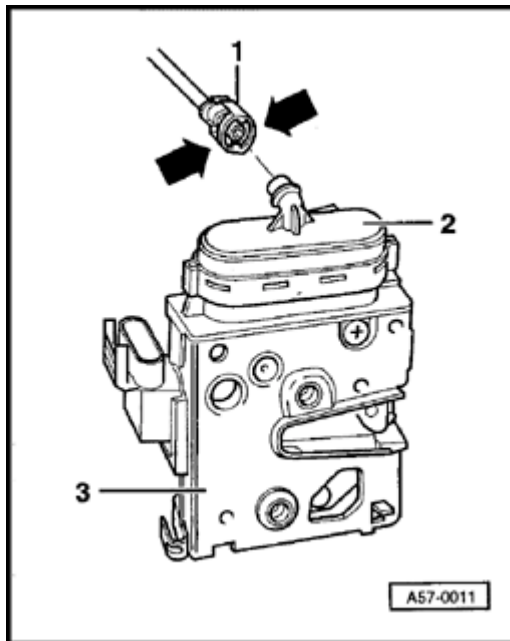
Notes:

- ◆ *After the car has been parked for a lengthy time and/or after replacing the central locking system pump, the central locking system will not function properly until prompted repeatedly.*
- ◆ *When the system is operating correctly, all locks will close within 2 seconds.*
- ◆ *If the pump operates for longer than 5 seconds, there is a leak in the system.*
- ◆ *When there is a leak in the system, the pump must not run for more than 30 seconds. The pump's control unit must shut it off at this point.*
- ◆ *All the lock actuators are equipped with special vacuum line connectors that must lock when plugged in.*

Vacuum line connectors, disengaging

Note:

Do not simply pull on the lock actuators to disconnect; the locking mechanism installed on the harness connector must first be disengaged.



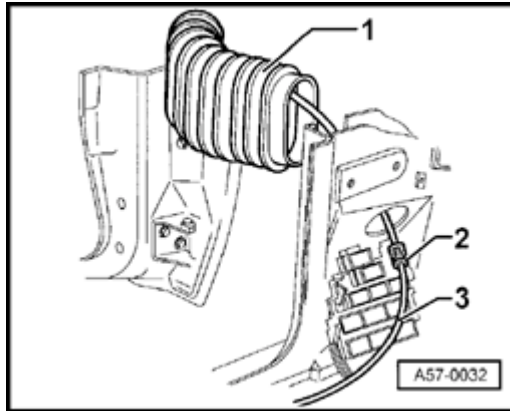
- To disengage lock, squeeze harness connector on locking mechanism at arrows.
- Disconnect harness connector.

Damaged vacuum line, repairing

- Remove damaged area using knife.
- Cut connecting line e.g. ET-Nr 533 862 225 to proper length and push onto vacuum line.

57-44

A-pillar vacuum line connector



A

- After removing lower A-pillar cover, vacuum line connector -2- becomes accessible at bottom of A-pillar.

1 - Boot

3 - Line to distribution box

57-45

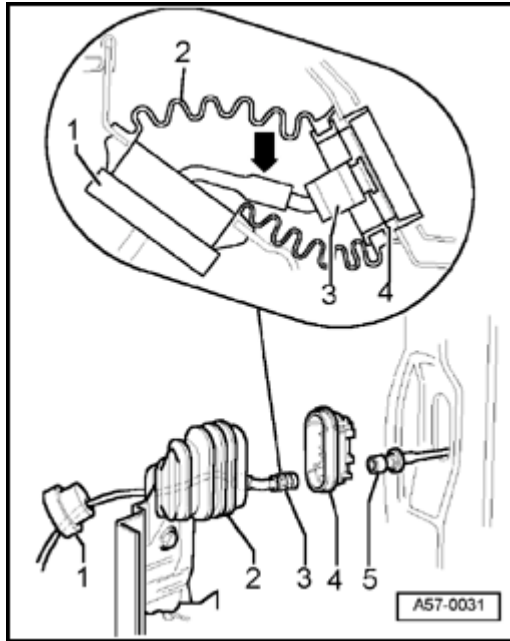
B-pillar vacuum line connector

4

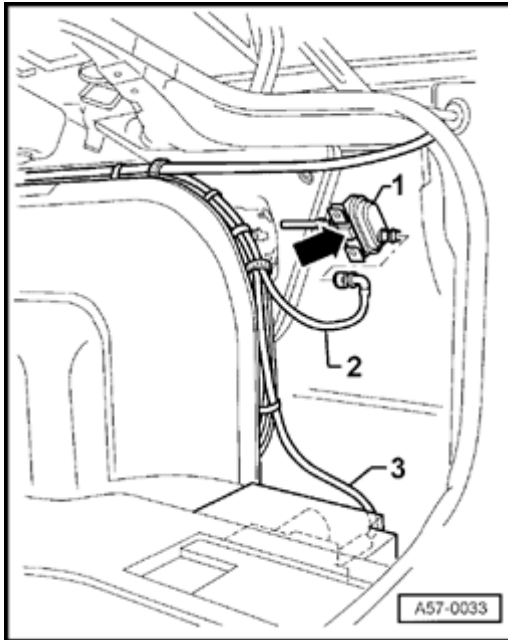
- Assemble seal -1- with cable slot at bottom.
- After removing boot -2-, vacuum line connector -3- can be removed by disengaging locking mechanism from line -5-.

Note:

The 45° plug (arrow) must point toward front of vehicle.



Lock actuator for fuel filling flap, removing and installing

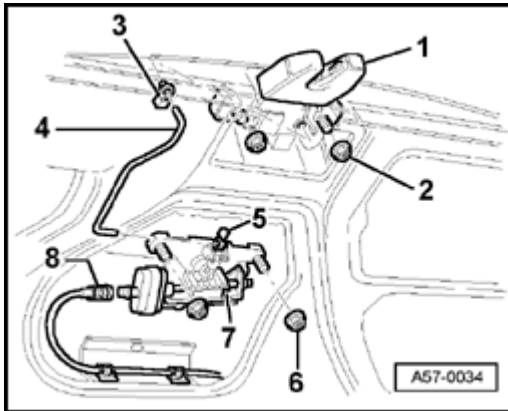
**A**

- Disengage locking mechanism from angled plug and detach vacuum line -2-.
 - To remove, press in locking lug arrow and pull lock actuator -1- rearward and out.
- 3 - Vacuum line to the pump for central locking system

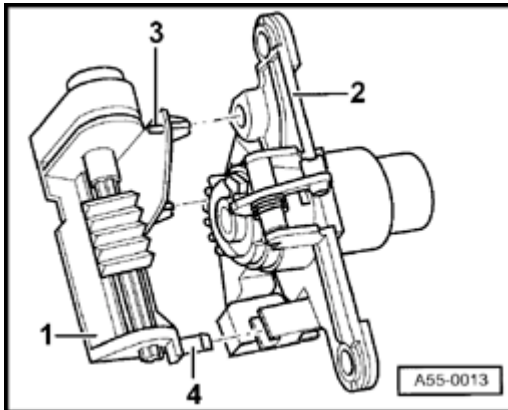
57-47

Rear lid lock actuator, removing and installing

Removing



- Separate harness connector and detach vacuum line.
- Disengage operating rod -4- from clip -3-.
- Remove hex nuts -6- and remove lock actuator -7- from rear lid lock.

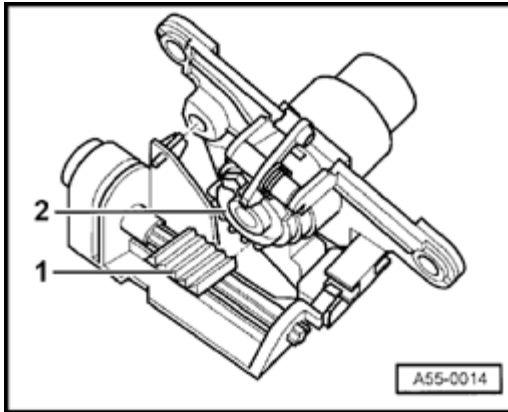


- Push out retaining pin -3- (2x) remove expanding clip.
- Push clip -4- back and disconnect.
- Remove lock actuator -1- from rear lid lock.

57-48

Installing

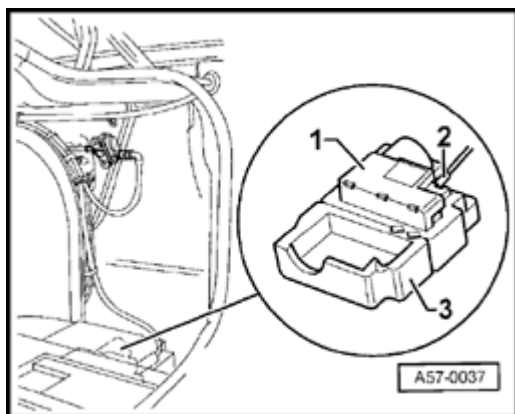
- Set lock cylinders in "open" position.

**A**

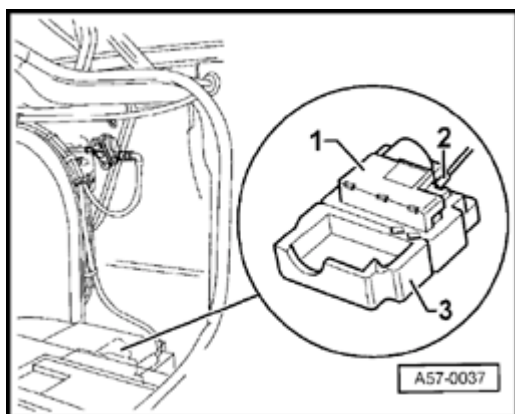
- Push ridged plate -1- to left. The first ridge of the plate -1- must snap into the first groove on the grooved segment -2-.

Central locking system pump, removing and installing

The pump for the central locking system is located in the right-rear of the luggage compartment under the luggage compartment trim.



- Fold back luggage compartment trim and remove insulation -3- with pump for central locking system -1-.
- Disengage connecting line -2-.

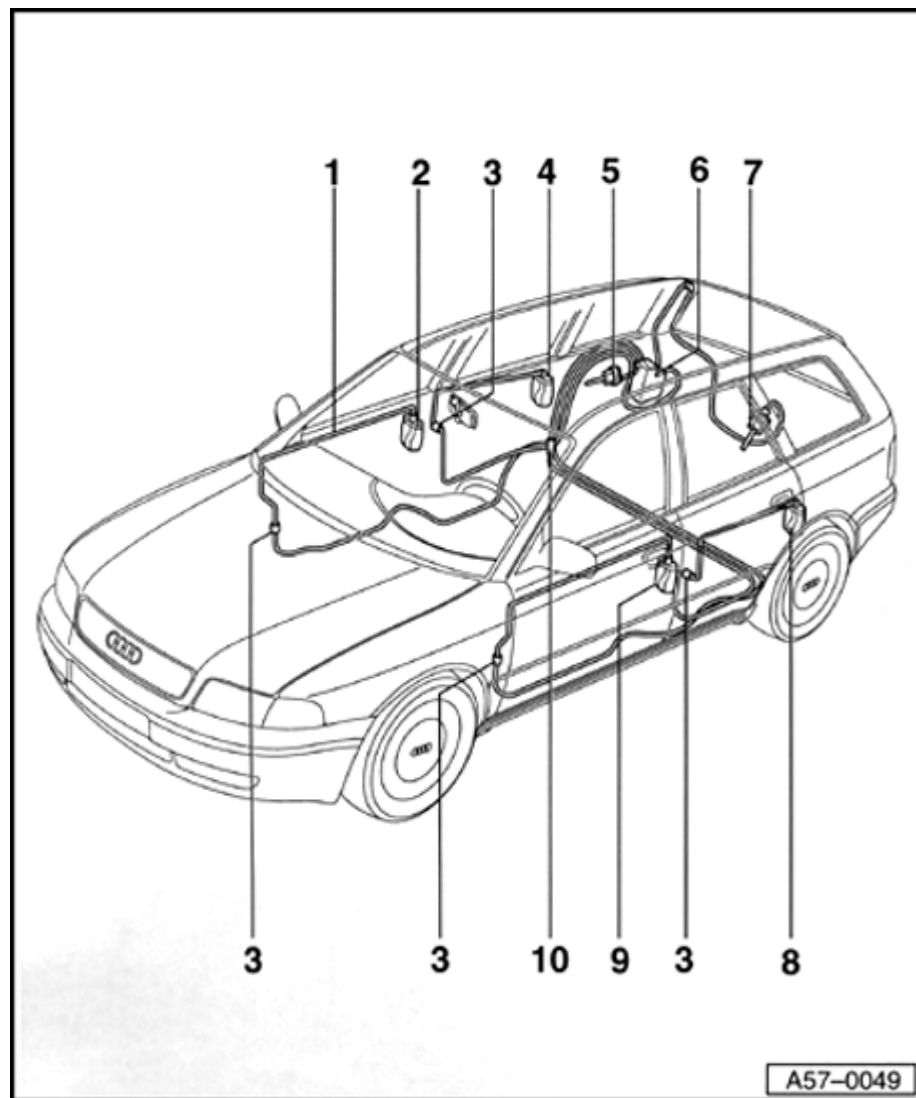


- Open insulation, disengage electrical harness connectors and remove connector -2- for vacuum line.

CAUTION!

After disconnecting all three connectors from the central locking system pump, ensure that the middle 6-pin connector (for power supply) is always plugged in last.

57-50



Central locking system (Avant), repairing

Assembly overview

1 - Pressure and vacuum lines

2 - Right-front door actuator valve

♦ Removing and installing ⇒ [page 57-12](#)

3 - Vacuum line connectors

♦ Disconnect vacuum line connectors ⇒ [page 57-42](#)

4 - Right-rear door actuator valve

♦ Removing and installing ⇒ [page 58-14](#)

5 - Fuel filling flap lock actuator

♦ Removing and installing ⇒ [page 57-52](#)

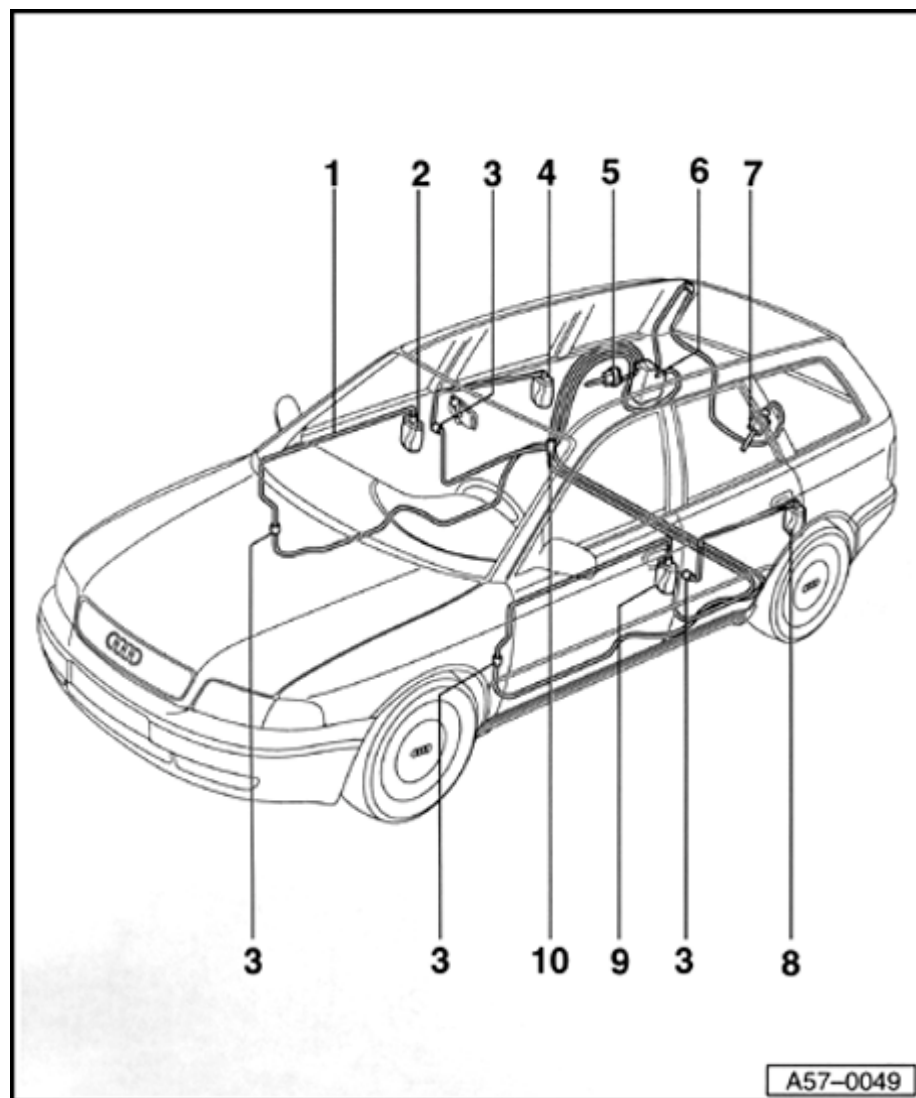
6 - Central locking system pump

♦ Removing and installing ⇒ [page 57-56](#)

7 - Rear lid lock actuator

♦ Removing and installing ⇒ [page 57-53](#)

57-51

**8 - Left-rear door actuator valve**

- ◆ Removing and installing same as for right door

9 - Left-front door lock actuator

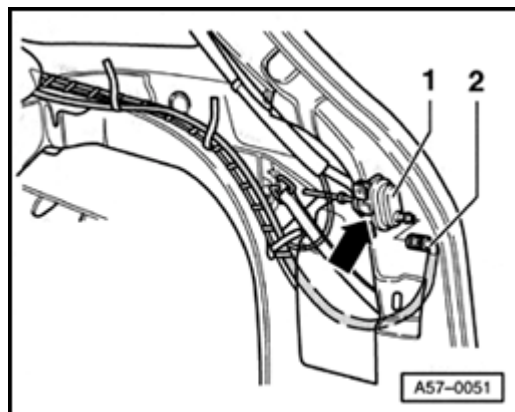
- ◆ Removing and installing same as for right door

10 - Distribution box

- ◆ Connected with all other vacuum lines, excluding lines for rear lid

57-52

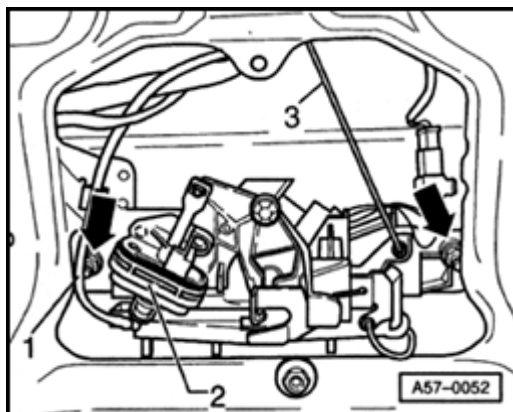
Fuel filling flap lock actuator, removing and installing



A

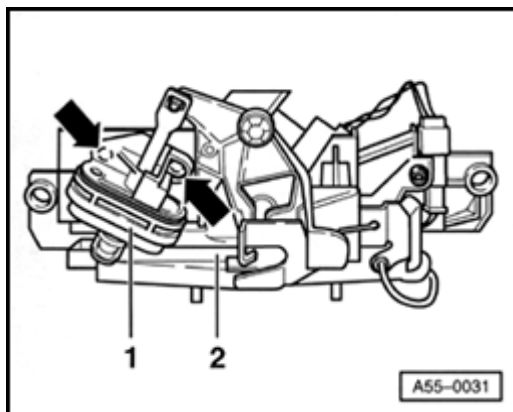
- Disengage locking mechanism from angled plug and detach vacuum line -2- from lock actuator -1-.
- To remove, press in locking lug (arrow) and pull lock actuator -1- rearward and out.
- To install, push into case until snap indicates engagement.

Rear lid lock actuator, removing and installing



A

- Remove tailgate trim ⇒ [page 57-54](#) .
- Disengage lock system at plug for vacuum line -1- and remove from lock actuator -2-.

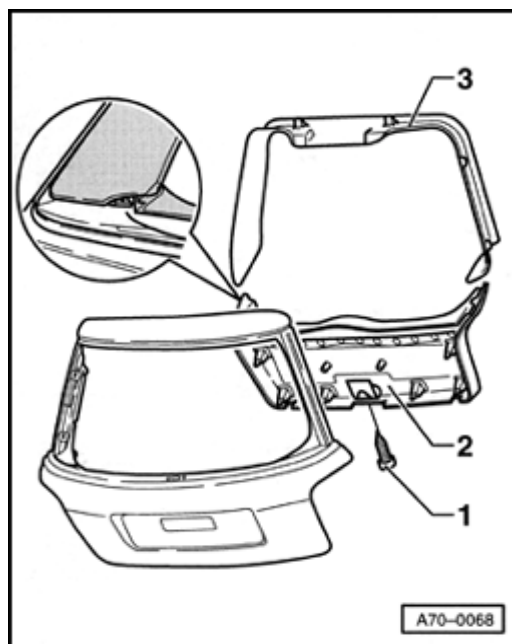


A

- Press clamping pins (arrow) out and remove lock actuator -1- from lock -2-.
- Clamping pins must be snapped back into expanding clips during installation.
- Pry out using screwdriver if necessary.

Note:

Illustration shows component after removal.



A

Fig. 1 Removing and installing tailgate trim

- Remove bolt -1- from handle well.

Torque: 1.5 Nm + 0.5 Nm (13 in. lb + 4 in. lb)

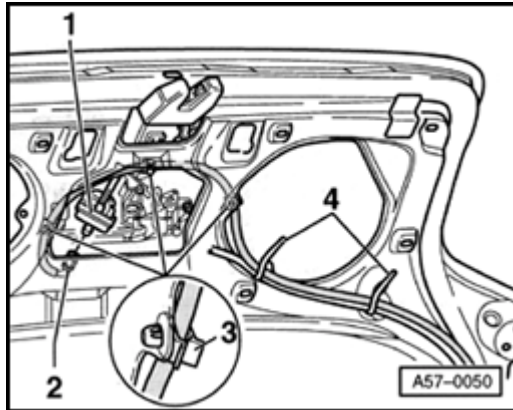
- Unclip lower rear hatch trim -2-.

- Unclip upper rear hatch trim -3-.

Note:

When installing the lower trim, guide bars must be inserted in upper trim.

57-55



A

Fig. 2 Line routing

- Route pressure and vacuum lines through tie wraps -4- as shown in diagram and snap into clips -3-.
- Snap harness connector -2- into lock actuator.

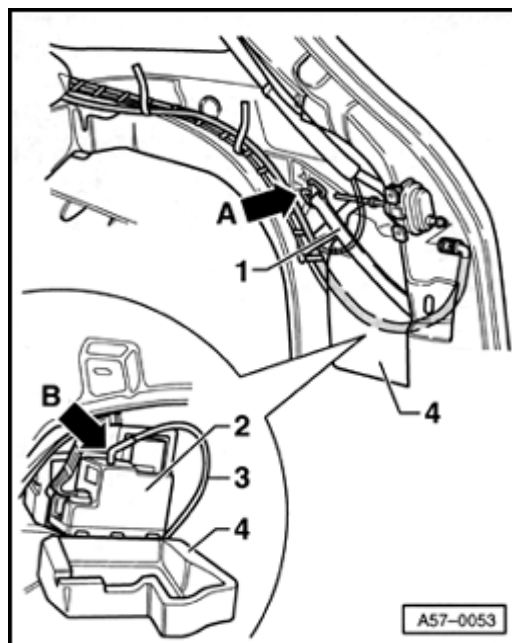
57-56

Central locking system pump, removing and installing

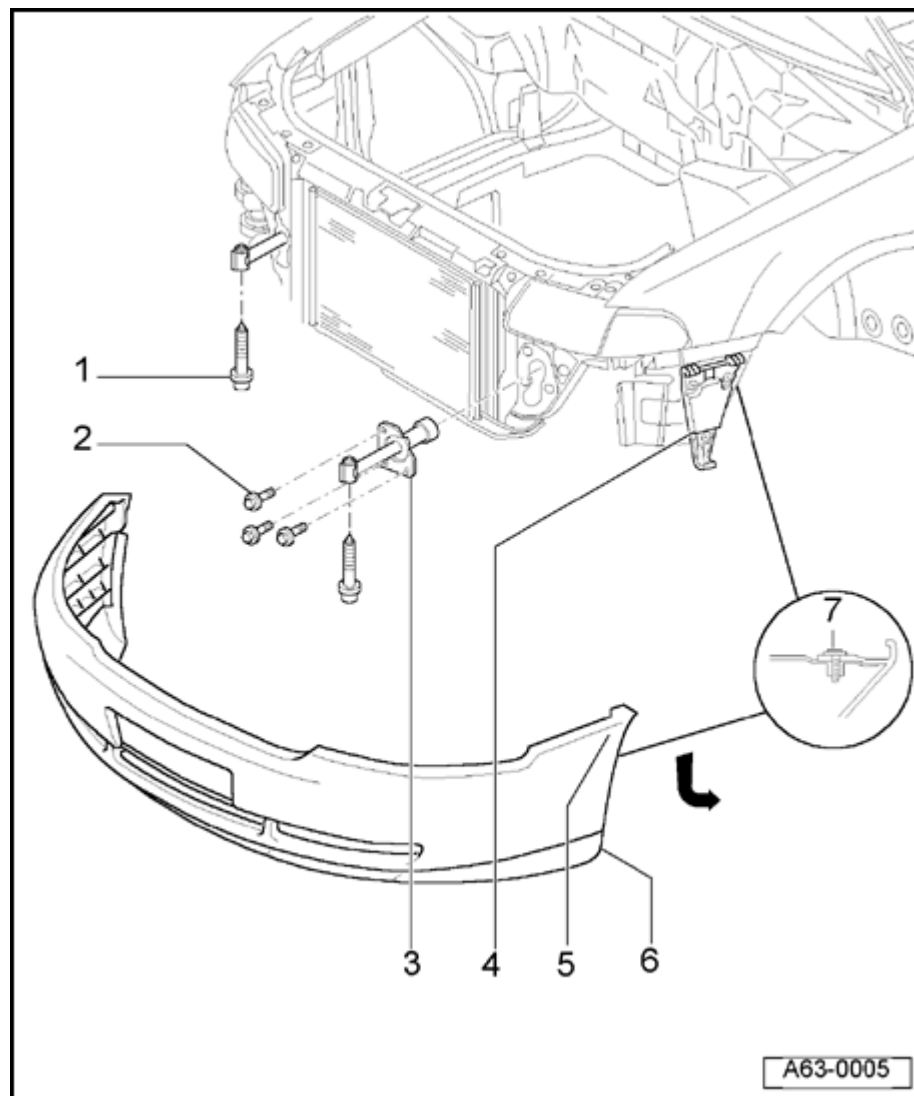
- Remove cover on side trim panel.
- Unhook tension strap -1- at arrow -A-.
- Remove insulation -4- with pump for central locking system -2- from side panel.
- Fold back insulation and remove pump.
- Disengage vacuum line connectors and detach angled plug (arrow B-).

CAUTION!

After disconnecting all three vacuum line connectors from the central locking system pump, ensure that the middle 6-pin harness connector (power supply) is always plugged in last.



63-1



Front bumper

Front bumper, removing, installing and assembly overview (➤ VIN 8D XA 200 000)

1 - Combination bolt

- ◆ 23 Nm (17 ft lb)

2 - Hex bolt

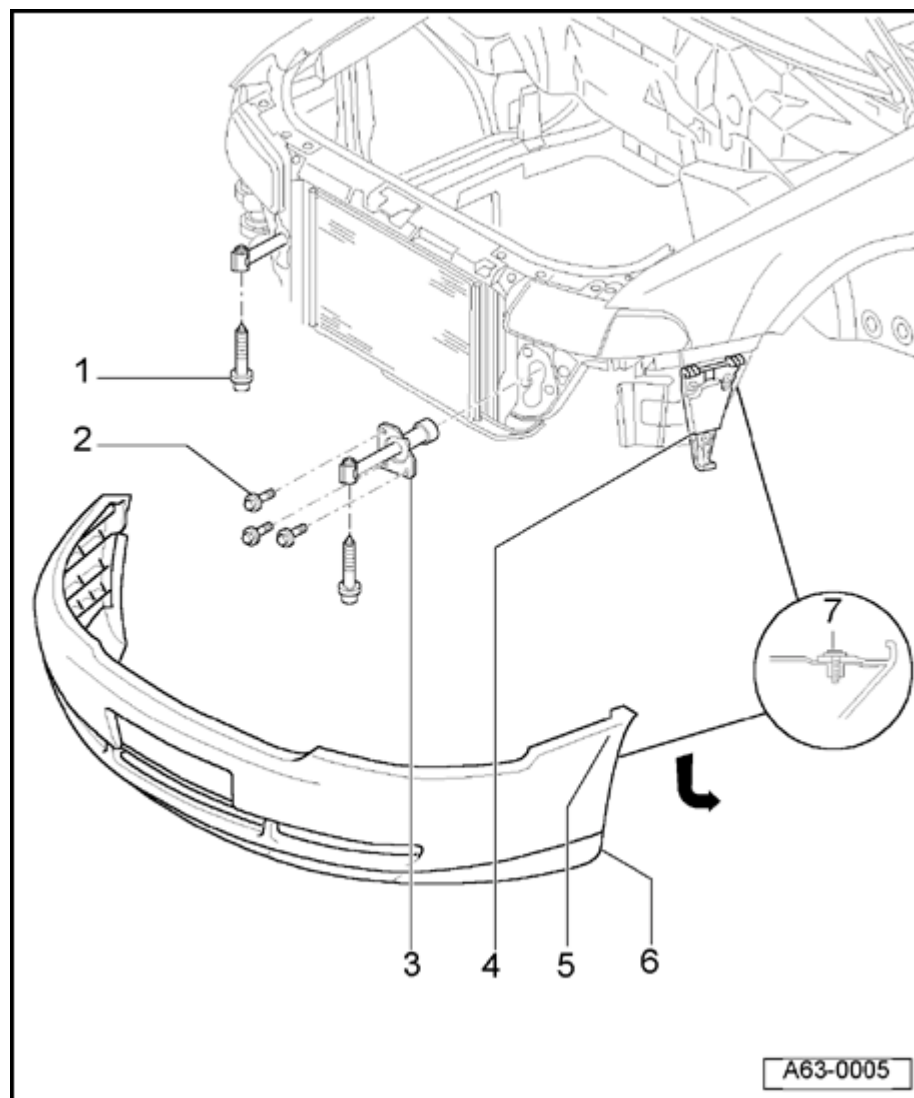
- ◆ 45 Nm (33 ft lb)
- ◆ Impact absorber is secured on right longmember with 4 hex bolts

3 - Impact absorber

- To remove, remove hex bolts and pull impact absorber out front.

4 - Bracket

- ◆ Removing and installing ⇒ [Fig. 2](#)



5 - Bumper

- To remove, remove Torx[®] screws at wheel housing liner.
- Remove air inlet grill at bumper.
- Remove combination bolts -1-.
- When installing, tighten to 23 Nm (17 ft lb).
- Unclip bumper from bracket -4- in direction of arrow and pull off towards front.

6 - Spoiler

- ◆ Removing and installing ⇒ [page 63-10](#)

7 - Torx[®] screw

- ◆ 1 Nm (9 in. lb)

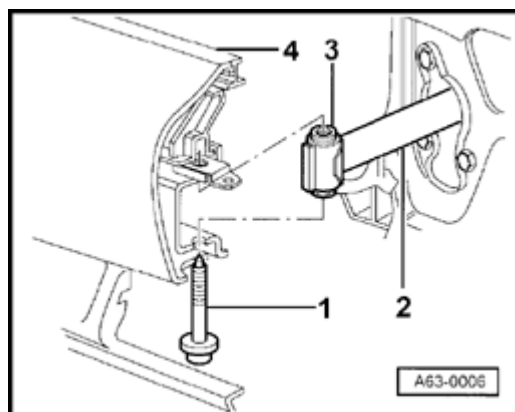


Fig. 1 Bumper height adjustment

- Bumper -4- height is adjusted by shifting threaded sleeve -3- in impact absorber -2-.
- Tighten combination bolt -1- to 23 Nm (17 ft lb).

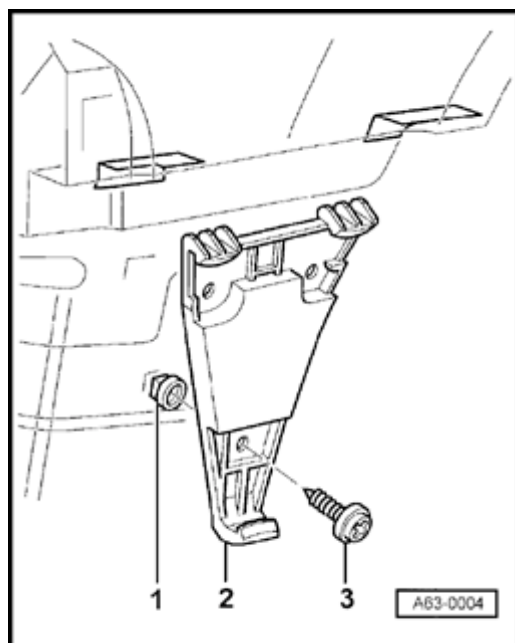


Fig. 2 Bumper bracket

- To remove, remove bolts -3- and take off bracket -2-.
- To assemble, press in clip -1-.

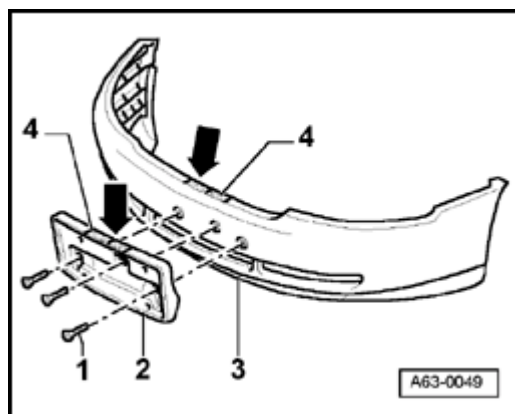


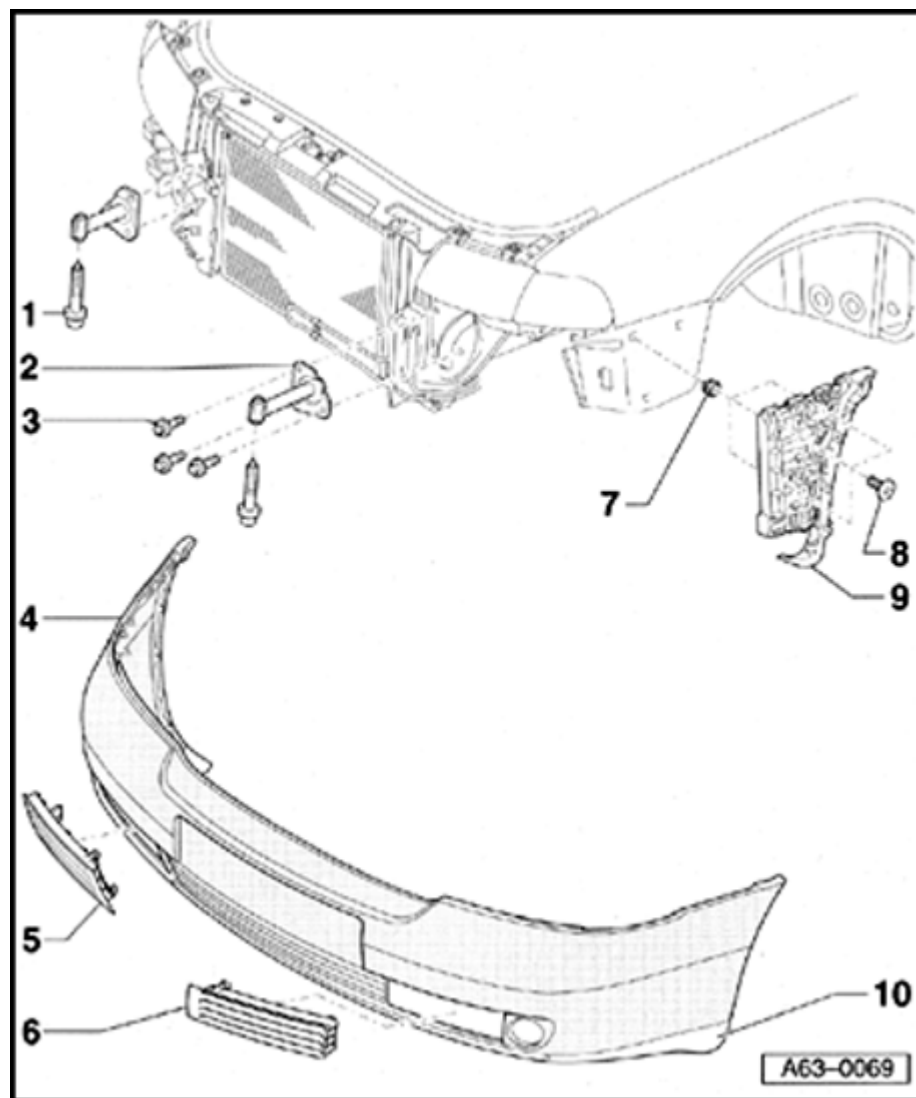
Fig. 3 Installing license plate holder

Note:

Use license plate holder as a drill hole template.

- Open hood.
- Cover area in center of bumper and license plate holder with adhesive tape -4- as shown.
- Mark middle of bumper -3- and license plate holder -2- (arrows) on adhesive tape using fine felt tip pen.
- Slide license plate holder in one continuous motion from bottom to top of bumper in centered position.
- Mark holes on bumper.
- Using drill (8 mm - 10 mm), drill holes centered around marks through bumper cover.
- Secure license plate holder -2- on bumper -3- using bolts -1-.

63-5



Front bumper, removing and installing (VIN 8D XA 200 001 ➤)

1 - Bolt w/washer assembly

- ◆ 23 Nm

2 - Impact absorber

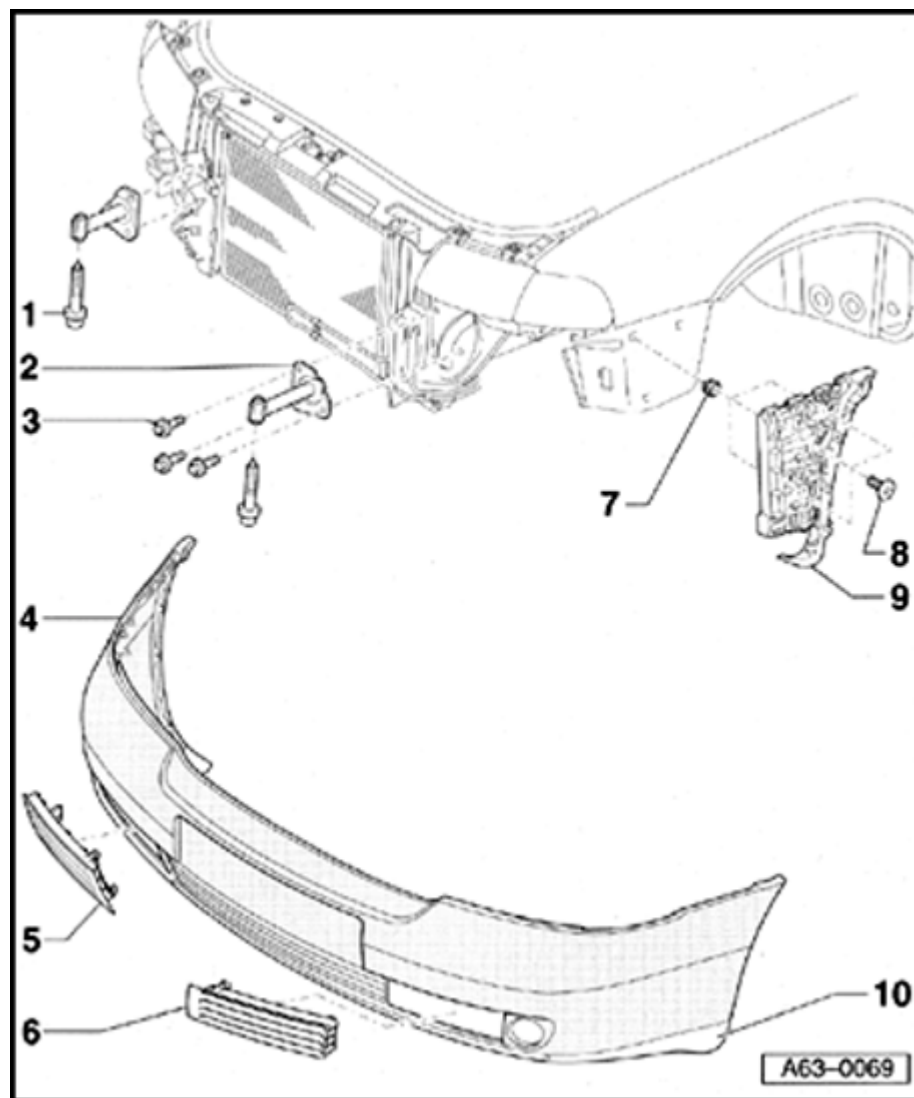
- ◆ To remove, remove hex bolts and pull impact absorber out front.

3 - Hex bolt.

- ◆ 45 Nm
- ◆ Impact absorber is secured on right longmember with 4 hex bolts.

4 - Bumper

- ◆ To remove, remove Torx screws at wheel housing liner.
- ◆ Remove air inlet grill at bumper.
- ◆ Remove bolt w/washer assembly -1-.
- ◆ When installing, tighten to 23 Nm.
- ◆ Unclip bumper from bracket -9- and remove toward front.

**5 - Air inlet grill, right**

- ◆ Removing and installing ⇒ [page 63-7](#) .

6 - Air inlet grill, left

- ◆ Removing and installing same as for air inlet grill, right.

7 - Clip

- ◆ To install, press into fender.

8 - Combination bolt

- ◆ 1.5 Nm.
- ◆ Tighten bolts at top rear, top front, and at bottom in specified sequence when installing bracket.

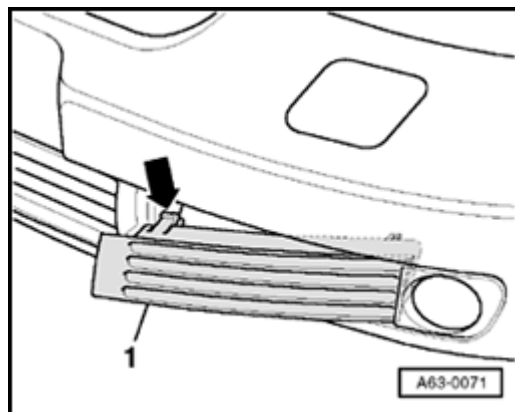
9 - Bracket

- ◆ Removing and installing ⇒ [page 63-8](#) .

10 - Spoiler

- ◆ Removing and installing ⇒ [page 63-10](#) .

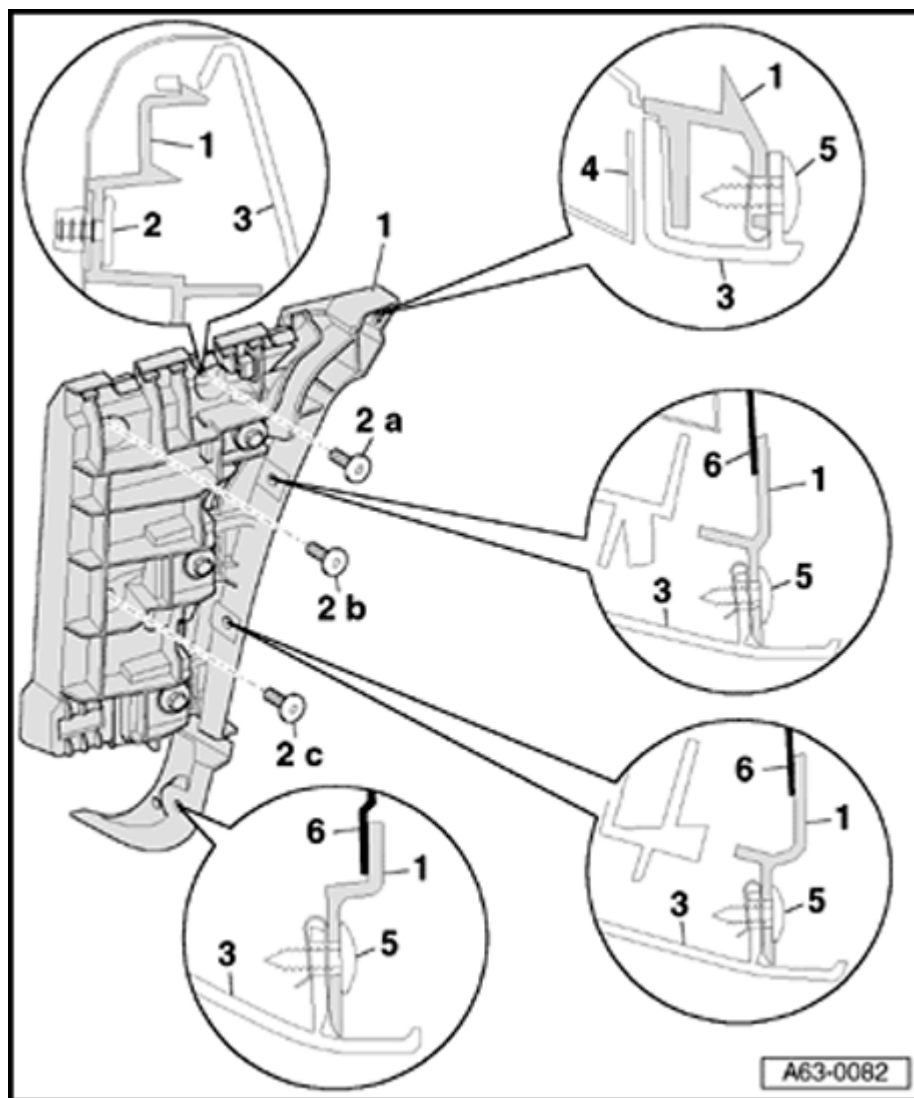
63-7



A

Fig. 1 Removing and installing air inlet grill

- Disengage retaining tabs at top and bottom using screwdriver (arrow).
- Remove inner end of air inlet grill first.



Bracket for front bumper, removing and installing

1 - Bracket for front bumper

- ◆ The bracket has two parts. The rear half can be shifted to adjust the length.

2 - Combination bolts

- ◆ 1.5 Nm
- ◆ Tighten bolts in sequence: -a-, -b- then -c-.

3 - Bumper

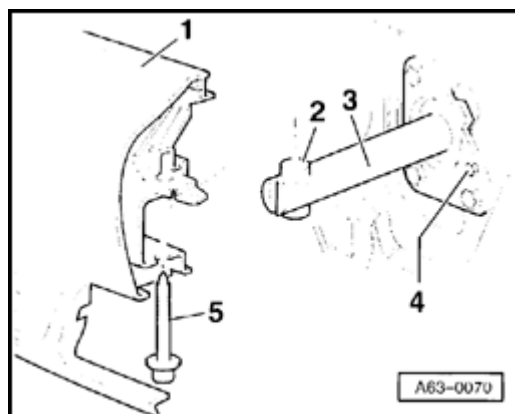
- ◆ Removing and installing ⇒ [page 63-5](#) .

4 - Fender

5 - Metal bolt

- ◆ 1.5 Nm.

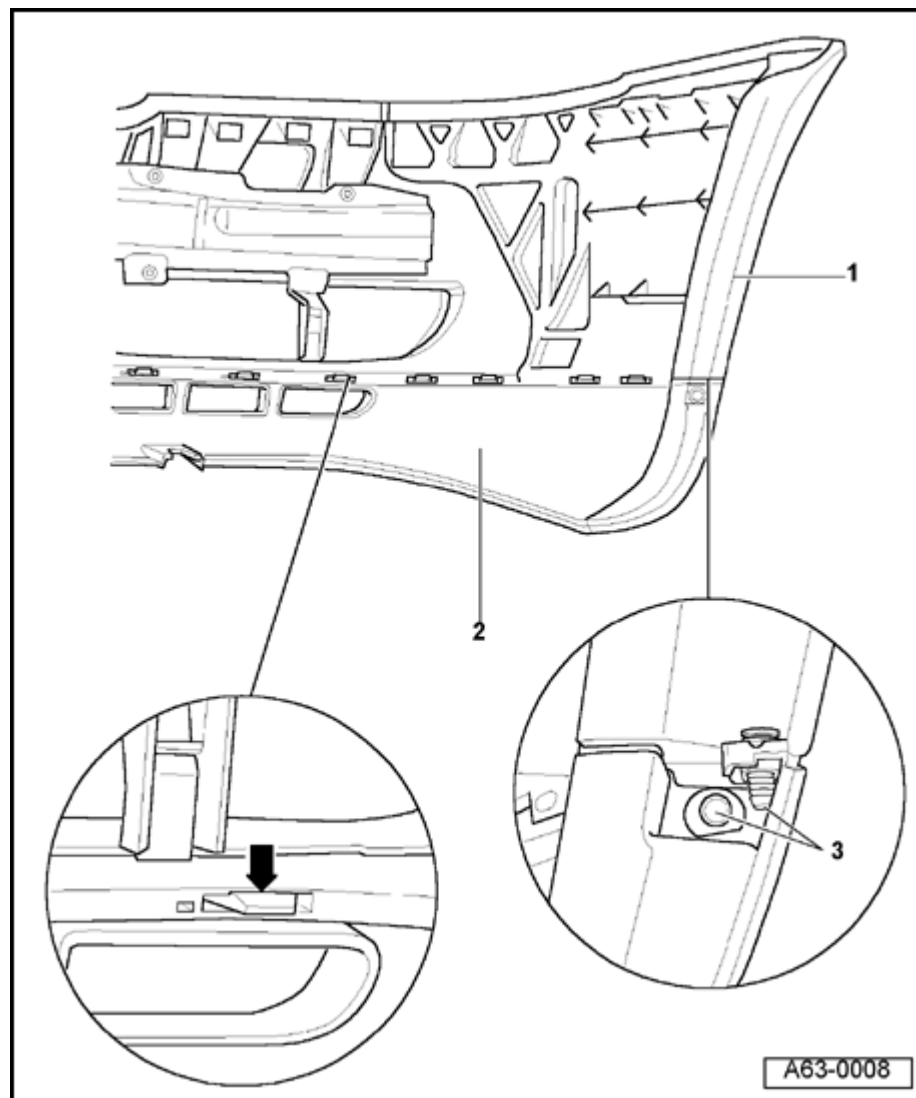
6 - Wheelhousing liner



4

Fig. 1 Front bumper height adjustment

- Bumper -1- height is adjusted by shifting the threaded sleeve -2- in the impact absorber -3-.
- Tighten combination bolt to 23 Nm when installing bumper.
- Bolt -4- is for securing the impact absorber to the lock carrier, e.g. for service position.
- Tightening torque 4 Nm



Spoiler, removing and installing

1 - Bumper

- ◆ Remove before detaching spoiler

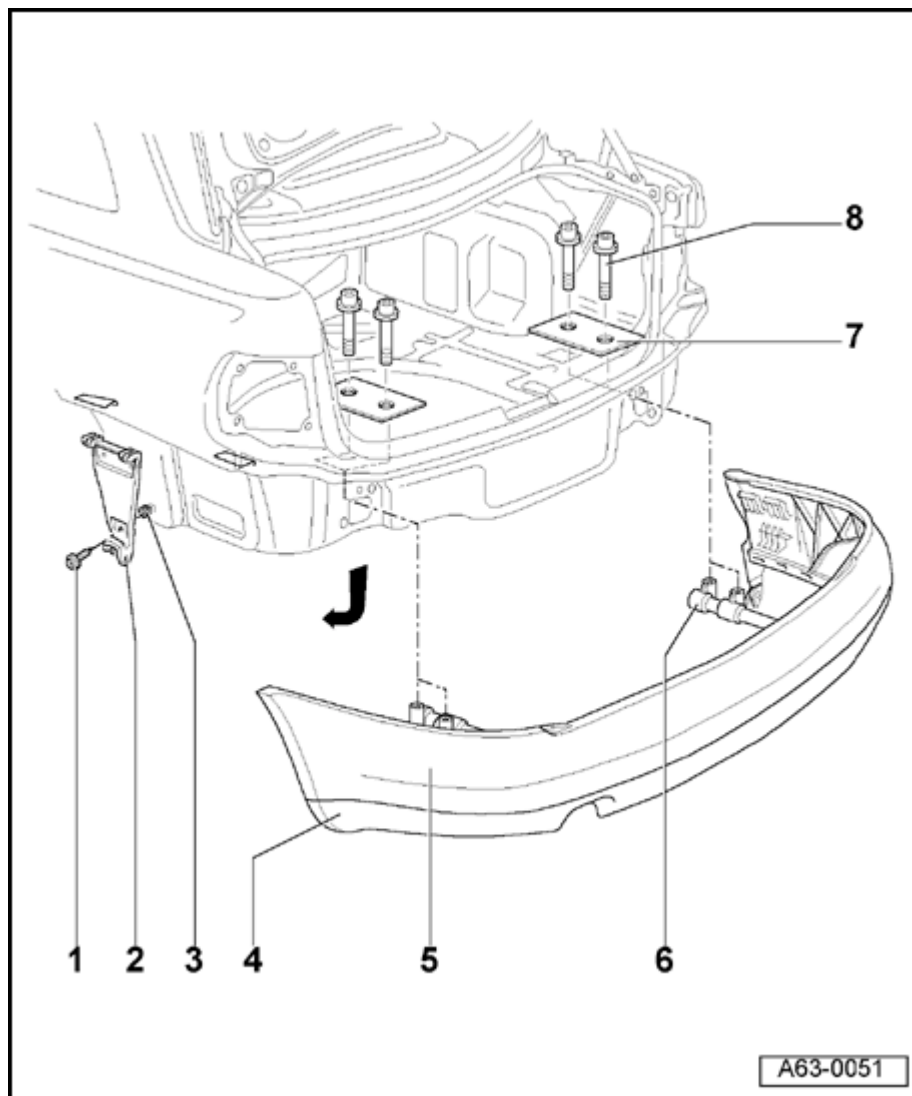
2 - Spoiler

- To remove, take out expanding clips -3- on both sides.
- Unclip retaining tabs (arrow) from spoiler and remove spoiler from bumper.

3 - Expanding clip

- To remove, pull pins out and pry out expanding clips.

63-11



Rear bumper (Sedan)

Rear bumper, removing and installing (➤ VIN 8D XA 200 000)

1 - Metal bolt

2 - Bracket

- To remove, remove metal bolts -1- and take off bracket.

3 - Clip

4 - Spoiler

◆ Removing and installing ⇒ [page 63-10](#)

5 - Bumper

- To remove, unscrew combination bolts -8-.

- Unclip bumper from bracket -2- in direction of arrow and pull off towards rear.

6 - Impact absorber

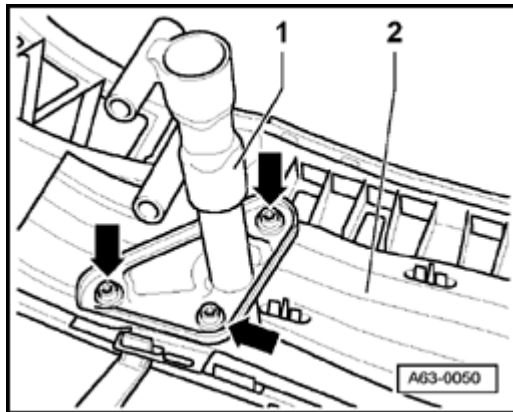
◆ Removing from bumper ⇒ [Fig. 1](#)

7 - Strengthening plate

8 - Combination bolt

◆ 23 Nm (17 ft lb)

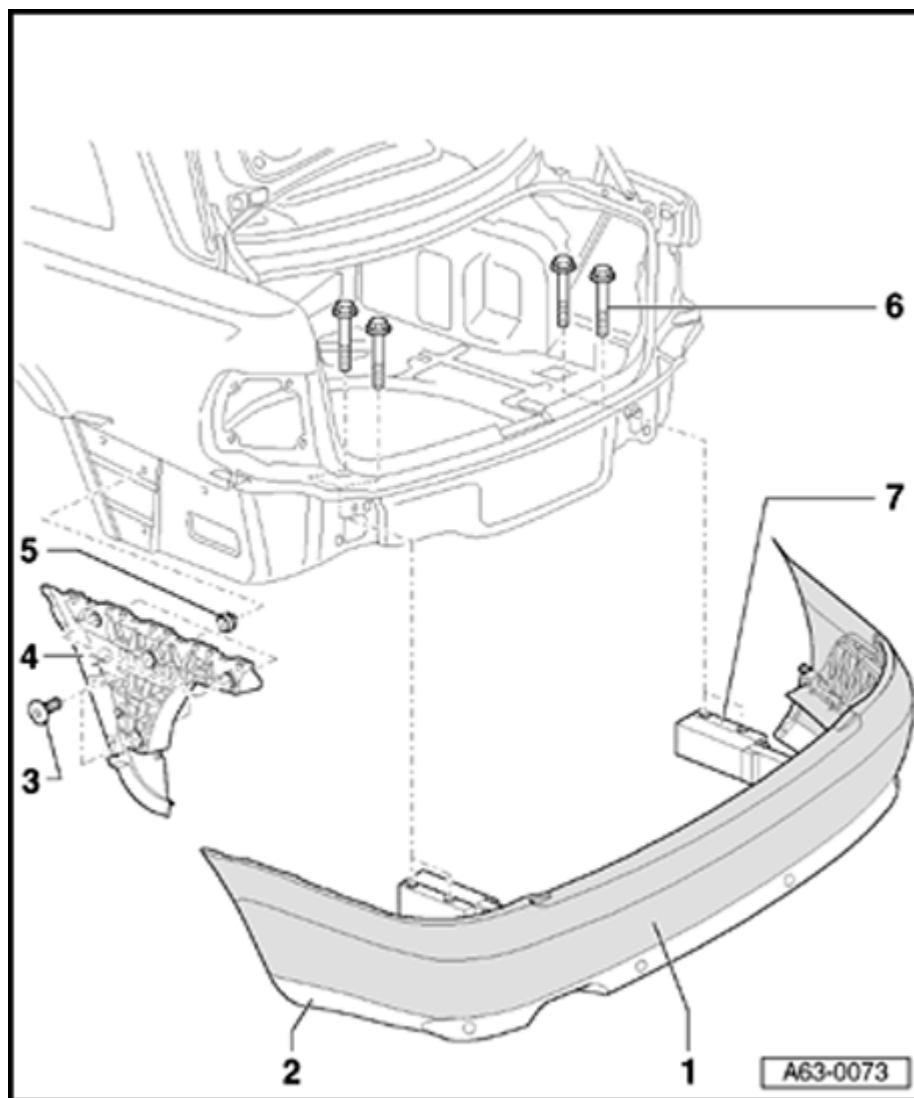
63-12



A

Fig. 1 Removing impact absorber from bumper

- Remove bolts (arrows) and take impact absorber -1- out of bumper -2-.
- When installing, tighten to 23 Nm (17 ft lb).



Rear bumper, removing and installing (VIN 8D XA 200 001 ➤)

1 - Bumper

- ◆ To remove, remove combination bolts -6-.
- ◆ For S4 models, an additional bolt must be installed at the wheelhousing liner ⇒ [Fig. 1](#).
- ◆ Unclip bumper from bracket -4- and remove toward rear.

2 - Spoiler

- ◆ Removing and installing ⇒ [page 63-10](#).

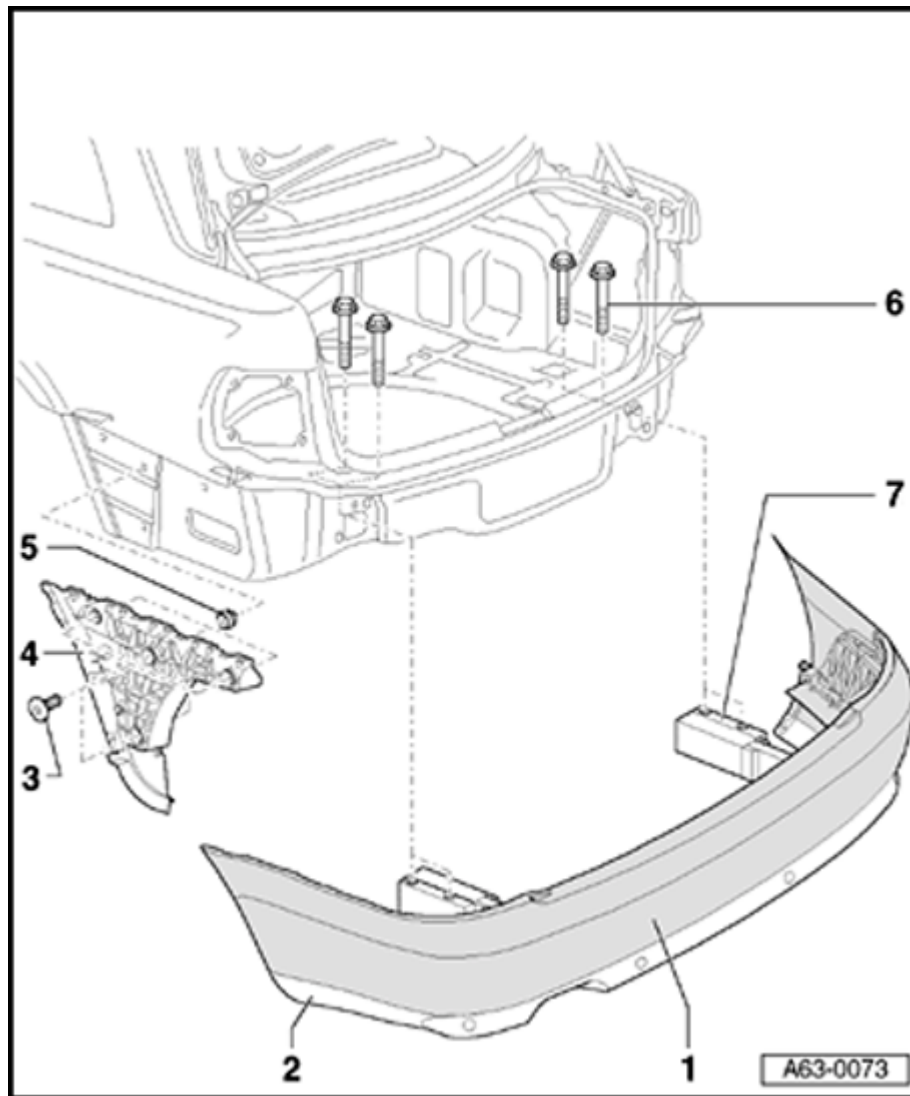
3 - Metal bolt

- ◆ 1.5 Nm.

4 - Bracket for rear bumper

- ◆ The bracket has two parts. The front half can be shifted to adjust the length.

63-14

**5 - Clip**

- ◆ To install, press into fender.

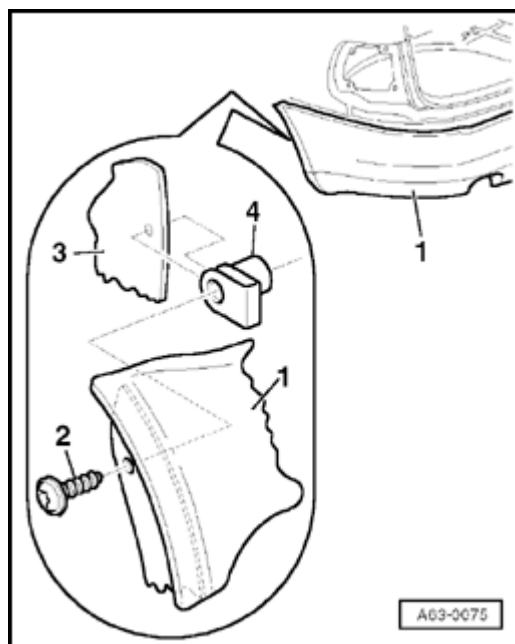
6 - Combination bolt

- ◆ 23 Nm

7 - Impact absorber

- ◆ Removing from bumper ⇒ [Fig. 2](#) .

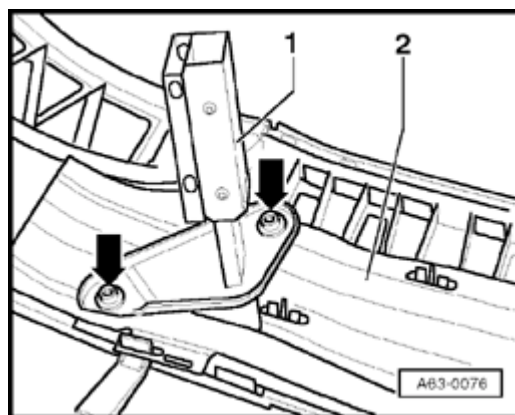
63-15



A

Fig. 1 Additional mount for S4

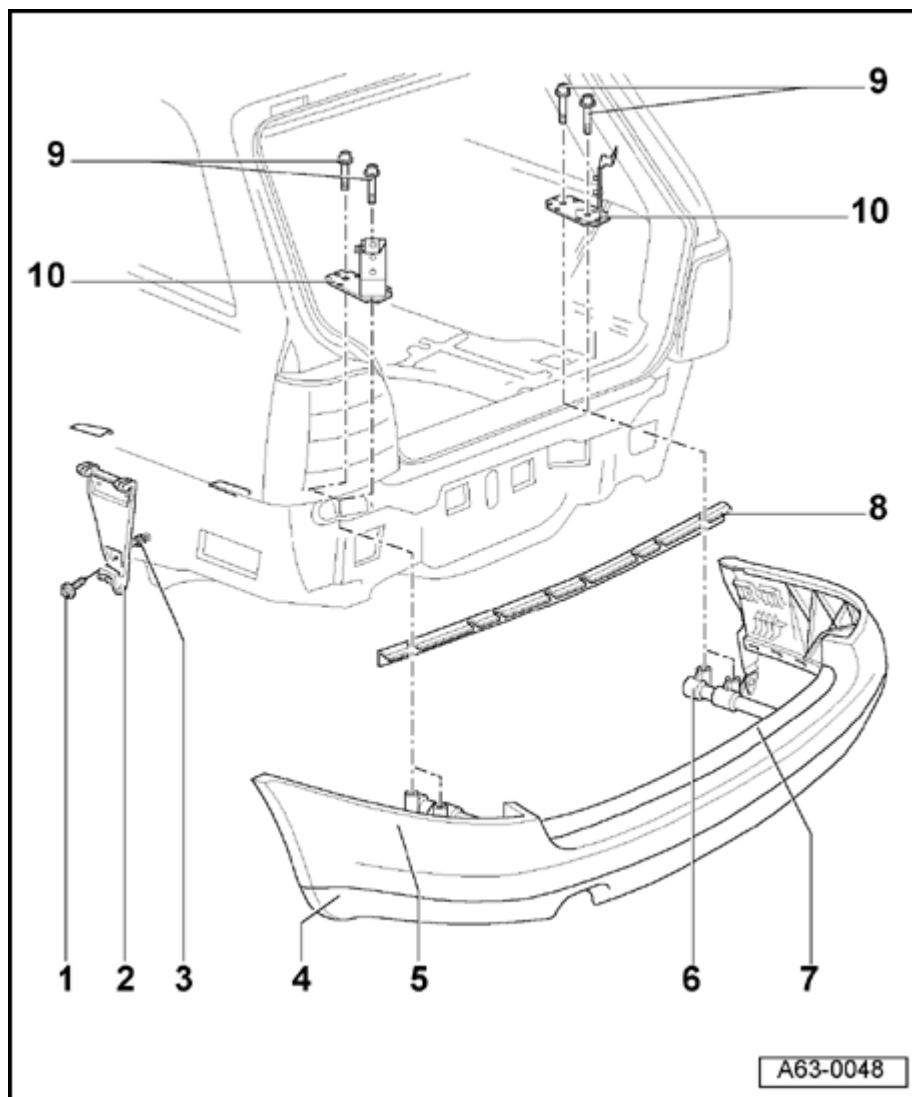
- Remove bolt -2- from wheelhousing liner before disassembling bumper -1-.
- Clip -4- is clipped onto wheelhousing liner -3-.



A

Fig. 2 Removing impact absorber from bumper

- Remove bolts (arrows) and take impact absorber -1- out of bumper -2-.
- When installing, tighten to 23 Nm.



Rear bumper (Avant)

Rear bumper, removing, installing and assembly overview (➤ VIN 8D XA 200 000)

1 - Metal bolt

2 - Bracket

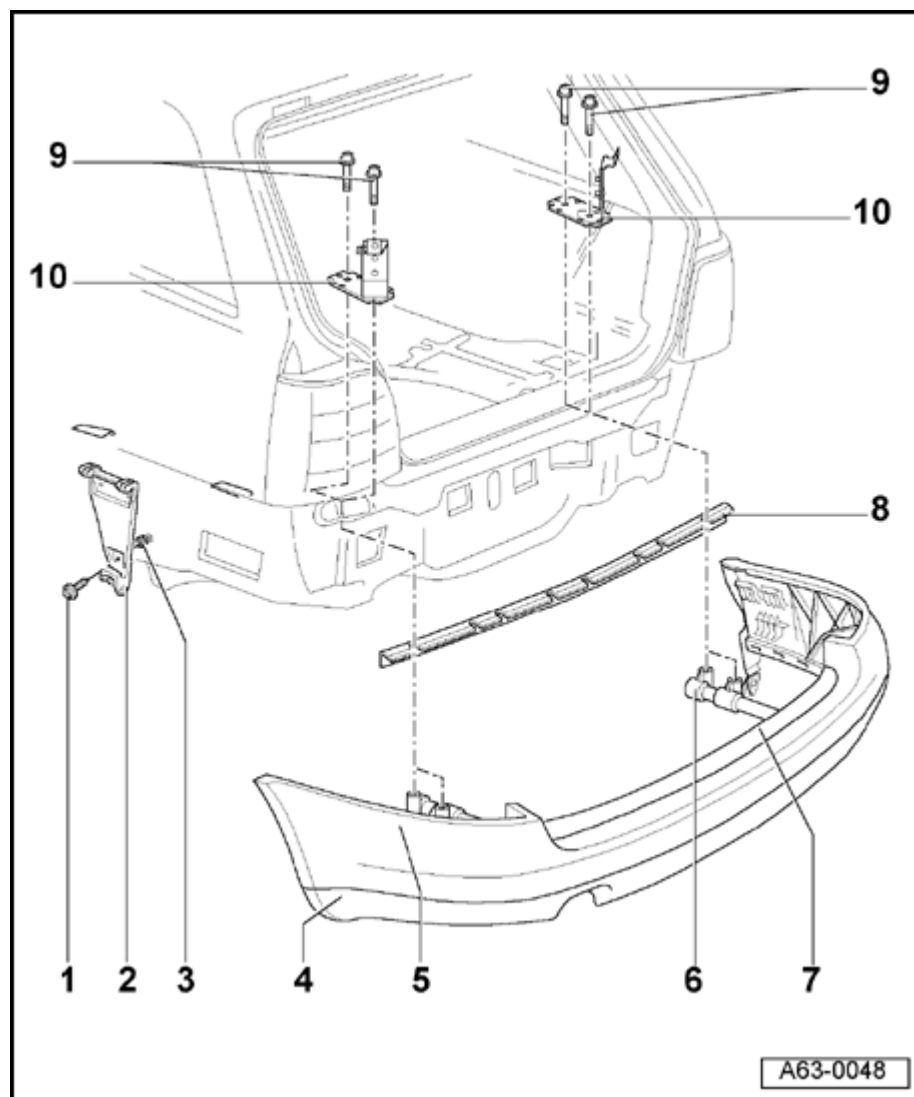
- To remove, remove metal bolts -1- and take off bracket.

3 - Clip

4 - Spoiler

◆ Removing and installing ⇒ [page 63-10](#)

63-17



5 - Bumper

- Before removing, remove rear panel trim.

⇒ [Repair Manual, Body-Interior, Repair Group 70](#)

- Remove tailgate seal in area of loading edge/side panels.
- Fold luggage compartment cover forward.
- Remove tie-downs left and right at side trim and unclip rear side trim.

⇒ [Repair Manual, Body-Interior, Repair Group 70](#)

- Carefully pull side trim at left and right towards vehicle interior.
- Remove combination bolts -9-.
- Unclip bumper from bracket -2- in direction of arrow and pull off towards rear.

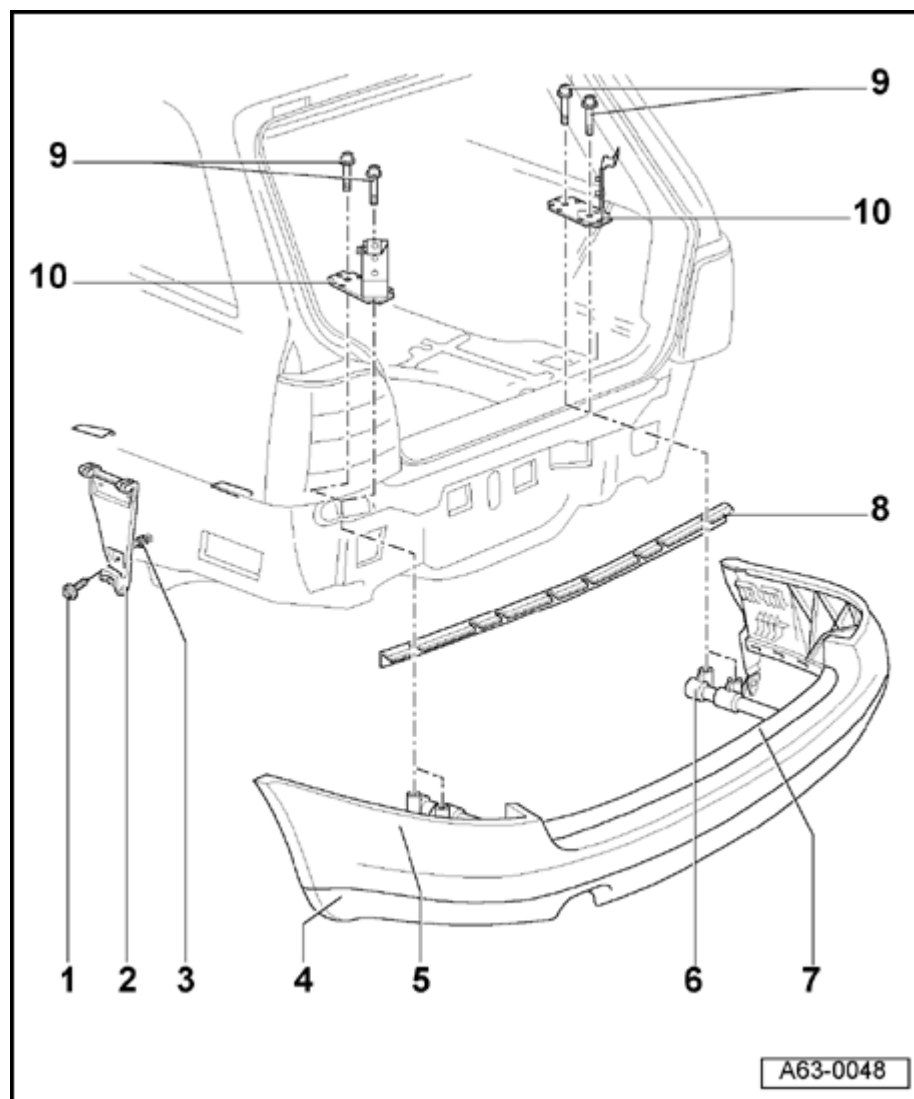
6 - Bracket

- ◆ Removing from bumper ⇒ [page 63-19](#)

7 - Cover strip

- ◆ Removing ⇒ [page 63-19](#)

63-18

**8 - Support**

- To remove, heat body with heat gun to approx. 40 °C (104 °F) and pull off support.

- To attach, heat body in adhesion area with hot air injector to approx. 40 °C (104 °F).

◆ Adhesion surface must be free of dust and grease

- Pull off protective foil and press on support using special tool 3356 (application roller).

9 - Combination bolt

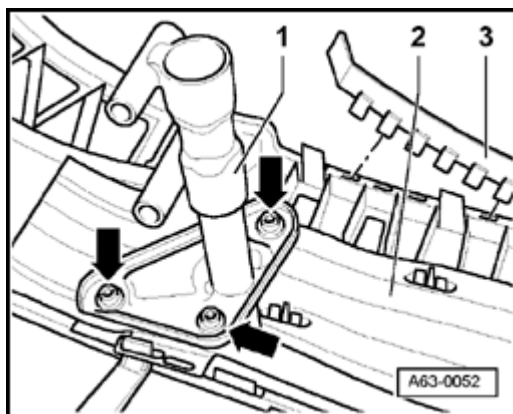
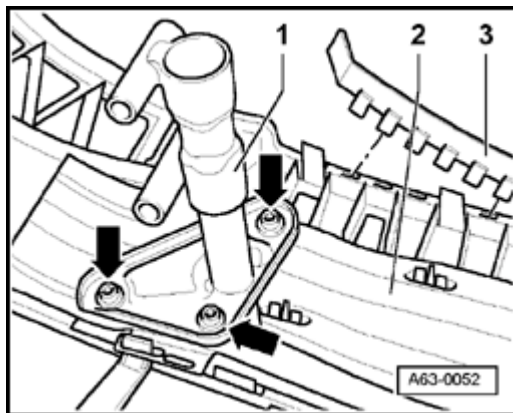
◆ 23 Nm (17 ft lb)

10 - Console

Bumper cover strip, removing

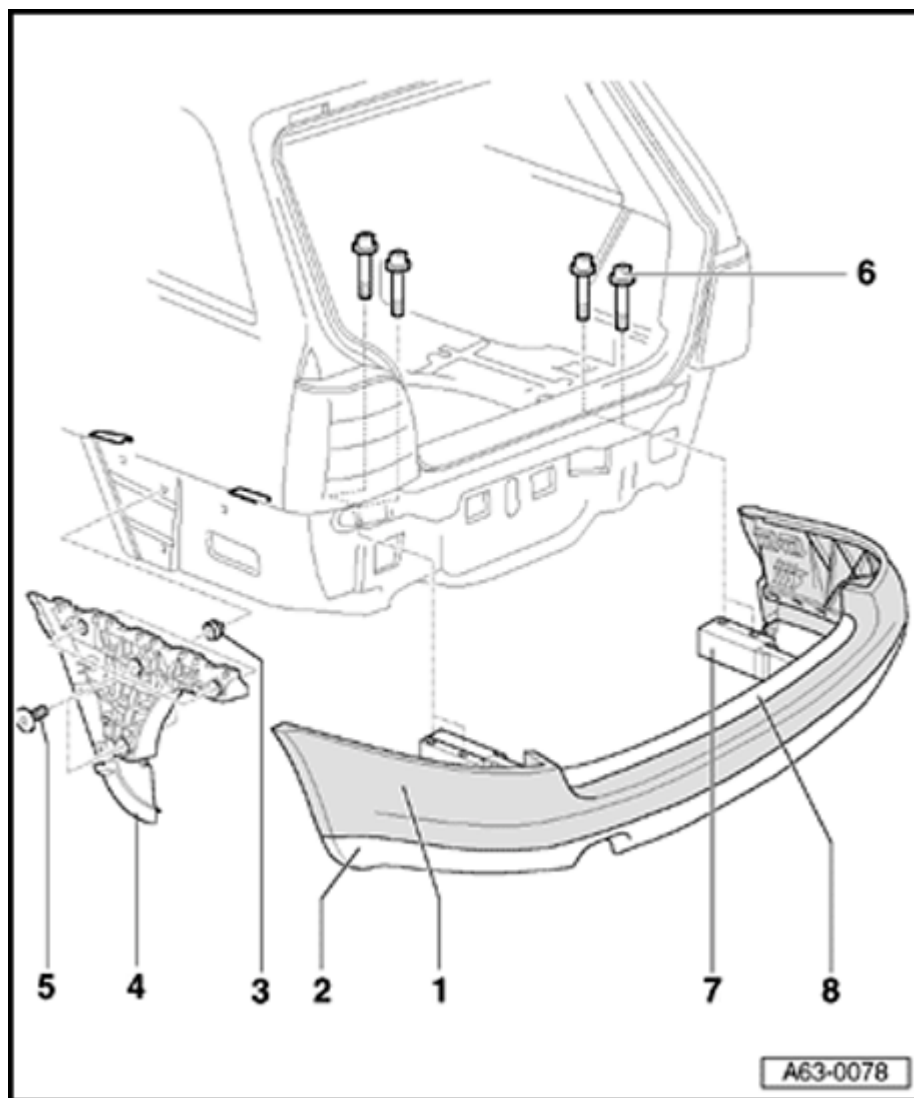
- Remove bumper ⇒ [page 63-1](#) .
- 4 - Release locking mechanism and unclip cover strip -3- from bumper -2-.

Removing bracket from bumper



- 4 - Remove bolts (arrows) and take bracket -1- out of bumper -2-.
- Tightening torque: 23 Nm (17 ft lb)

63-20



Rear bumper, removing and installing (VIN 8D XA 200 001 ➤)

1 - Bumper

- ◆ Before removing, remove rear panel trim.

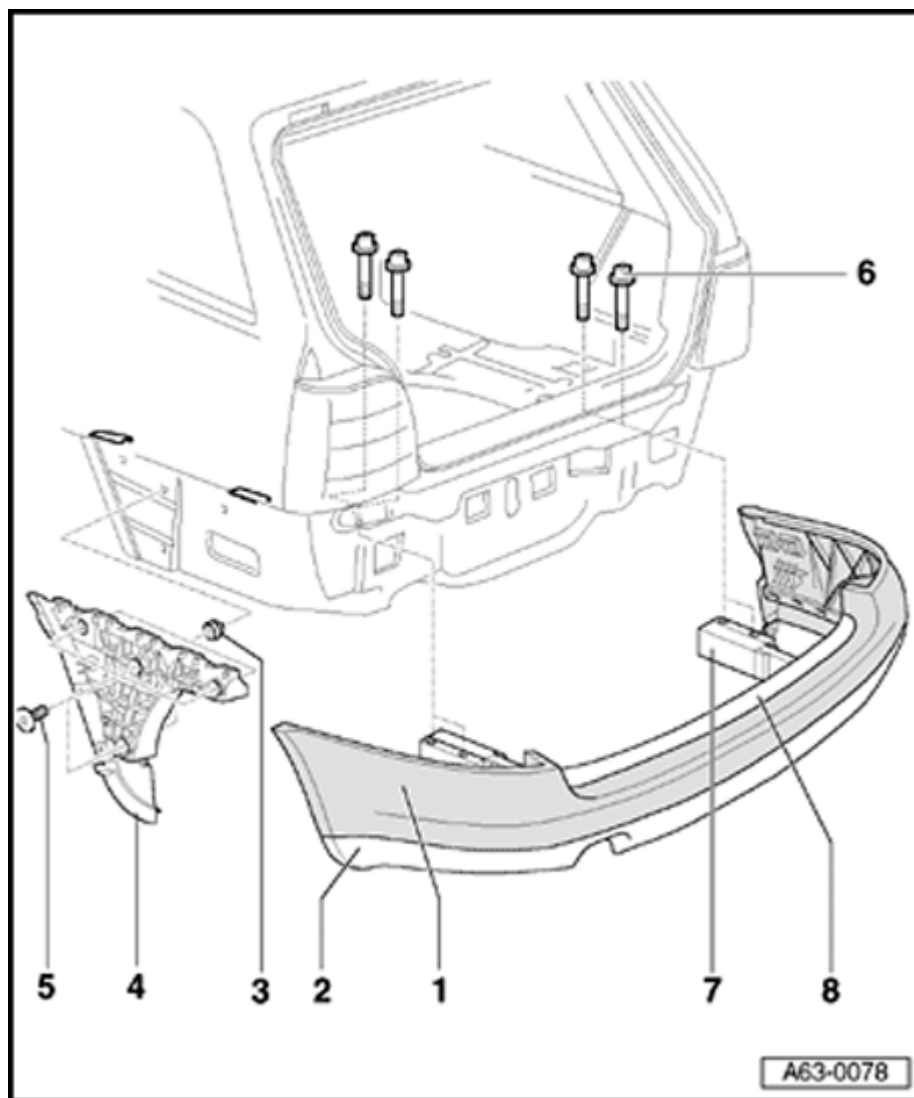
⇒ *Repair Manual, Body-Exterior, Repair Group 70, trim pieces.*

- ◆ Remove rear lid seal around loading edge and sides.
- ◆ Fold luggage compartment cover forward.
- ◆ Remove tie-downs left and right at side trim and unclip rear side trim.

⇒ *Repair Manual, Body-Exterior, Repair Group 70, trim pieces.*

- ◆ Carefully pull side trim at left and right toward vehicle interior.
- ◆ Remove screw w/washer assembly -6-.
- ◆ Unclip bumper from bracket -4- and remove toward rear.

63-21

**2 - Spoiler**

◆ Removing and installing ⇒ [page 63-10](#) .

3 - Clip**4 - Bracket**

◆ To remove, remove metal bolts -5- and remove bracket -2-.

5 - Metal bolt**6 - Screw w/washer assembly**

◆ 23 Nm

7 - Bracket

◆ Removing from bumper ⇒ [page 63-22](#) .

8 - Cover strip

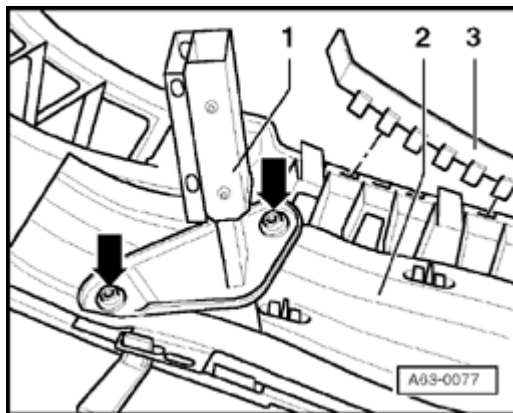
◆ Removing ⇒ [page 63-22](#) .

Bumper cover strip, removing

- Remove rear bumper ⇒ [page 63-20](#) .

4

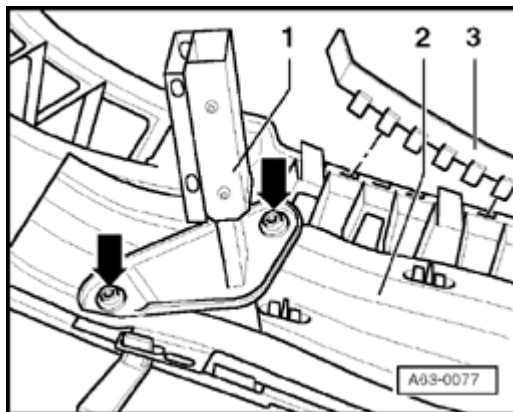
- Release locking mechanism and unclip cover strip -3- from bumper -2-.
- for removing impact absorber.

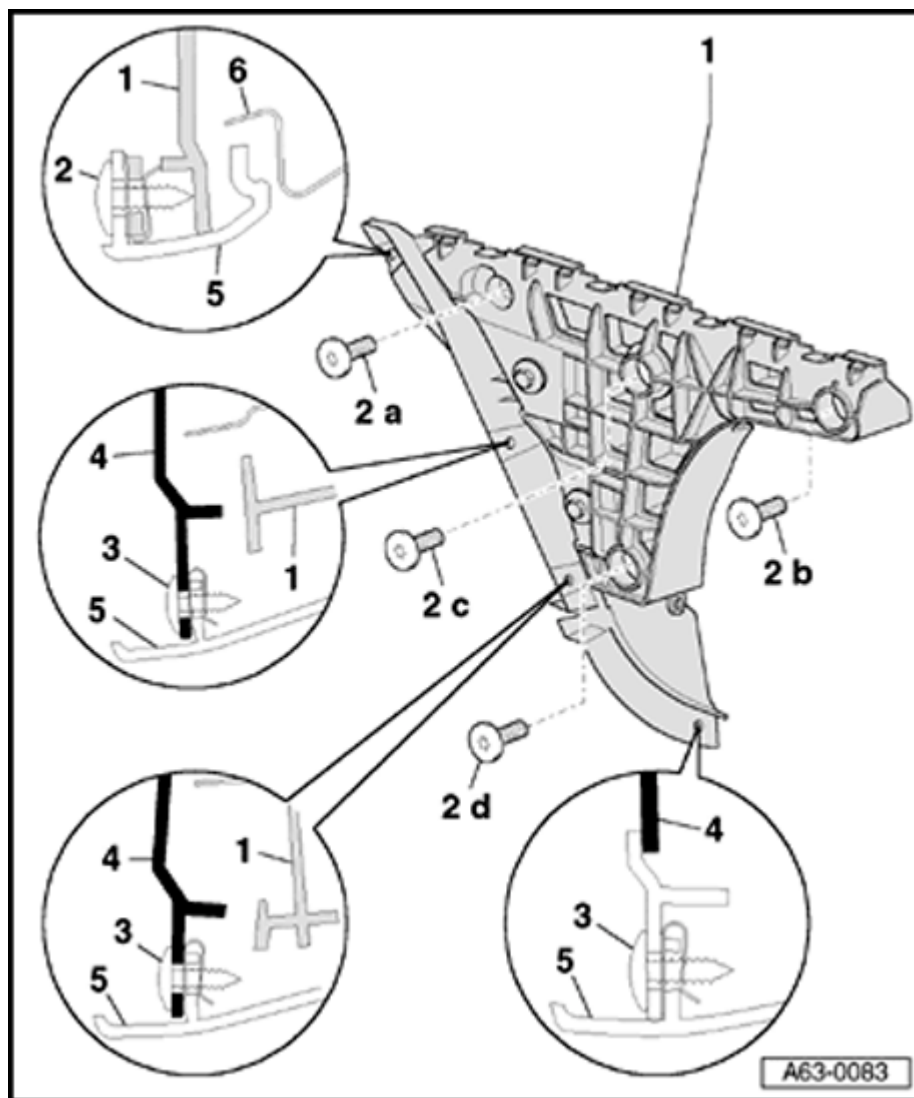


4

Fig. 1 Removing bracket from bumper

- Remove bolts (arrows) and take bracket -1- out of bumper -2-.
- Installation tightening torque 23 Nm.





Bracket for rear bumper, removing and installing

1 - Bracket for rear bumper

- ◆ The bracket has two parts. The front half can be shifted to adjust the length.

2 - Combination bolts

- ◆ 1.5 Nm.
- ◆ Tighten bolts in sequence -a-, -b-, -c- then -d-.

3 - Metal bolt

- ◆ 1.5 Nm.

4 - Wheelhousing liner, rear

5 - Rear bumper

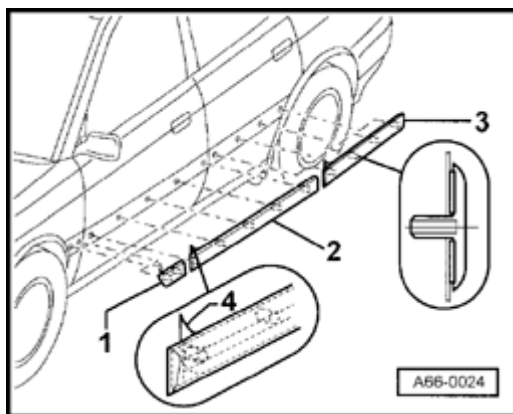
- ◆ Removing and installing ⇒ [page 63-20](#) .

Protective trim moldings

Protective trim moldings, removing and installing

Note:

Protective trim moldings cannot be removed without destroying them.



- Make sure all bonding surfaces are free of dust and grease.

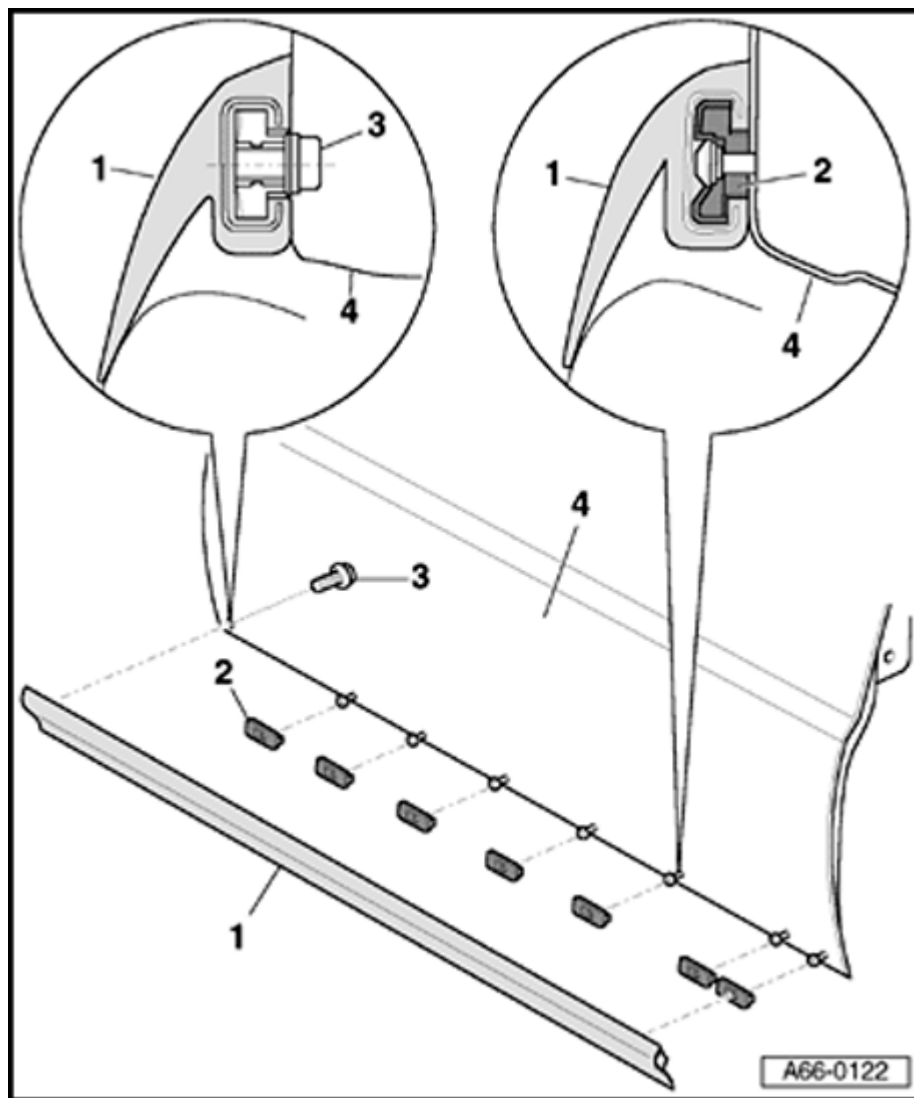
Protective trim moldings must only be installed at room temperature. Vehicle and protective trim molding (to be installed) must be left at room temperature for at least 2 hours before treating.

- Pull off backing sheet -4- shortly before installing.

Protective trim molding must be installed within 90 minutes after backing sheet has been removed.

- Position protective trim moldings -1-, -2-, or -3- at front with guide stud and bond toward rear.
- Apply pressure of 100 N/cm to protective trim moldings by pressing against or using roller.
- Vehicle must remain at room temperature for 4 hours (minimum) after installing moldings.

66-2



Lower trim strip for front door

Lower trim strip, removing and installing

1 - Lower trim strip

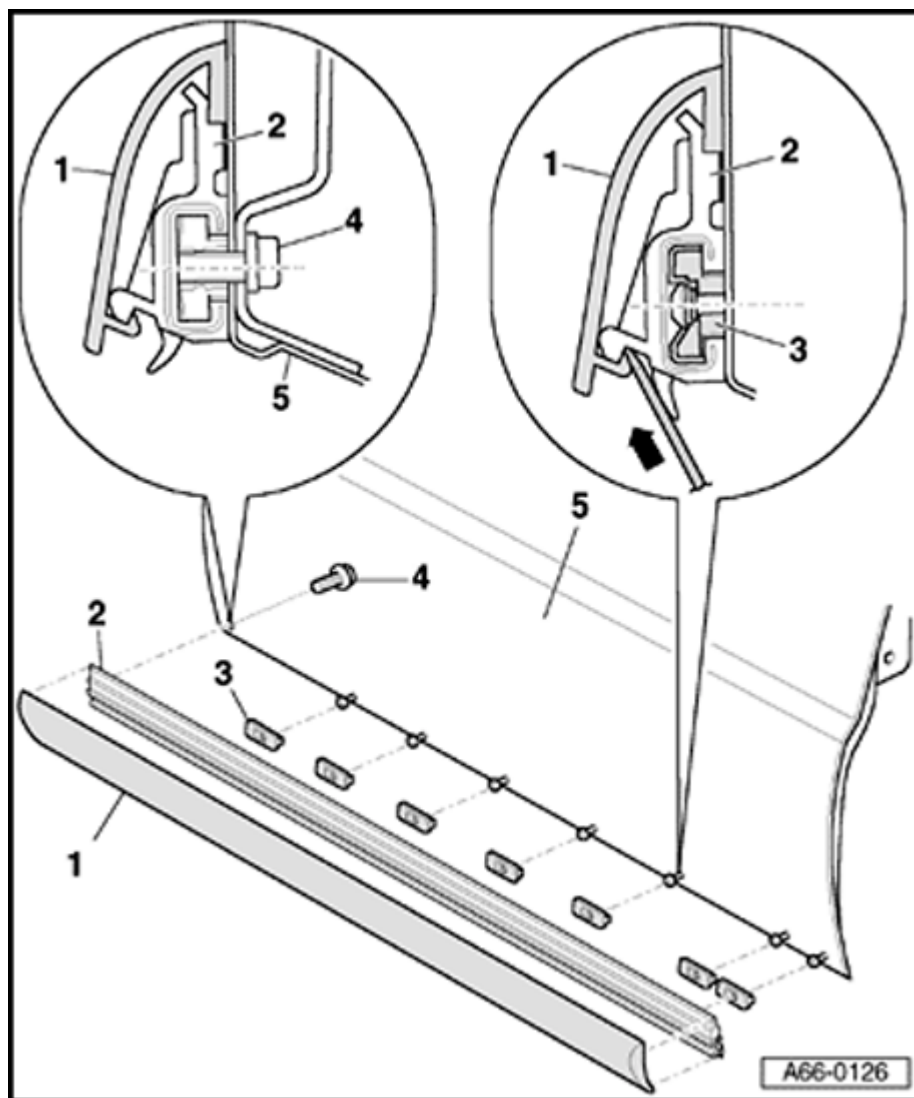
- ◆ Remove combination bolt -3- and slide trim strip toward rear out of retaining clips -2-.
- ◆ Remove trim strip laterally from door.
- ◆ Installation is the reverse of removal.

2 - Retaining clip

3 - Combination bolt

- ◆ 1 Nm

4 - Front door



Lower trim strip, removing and installing (S4)

1 - Lower trim strip

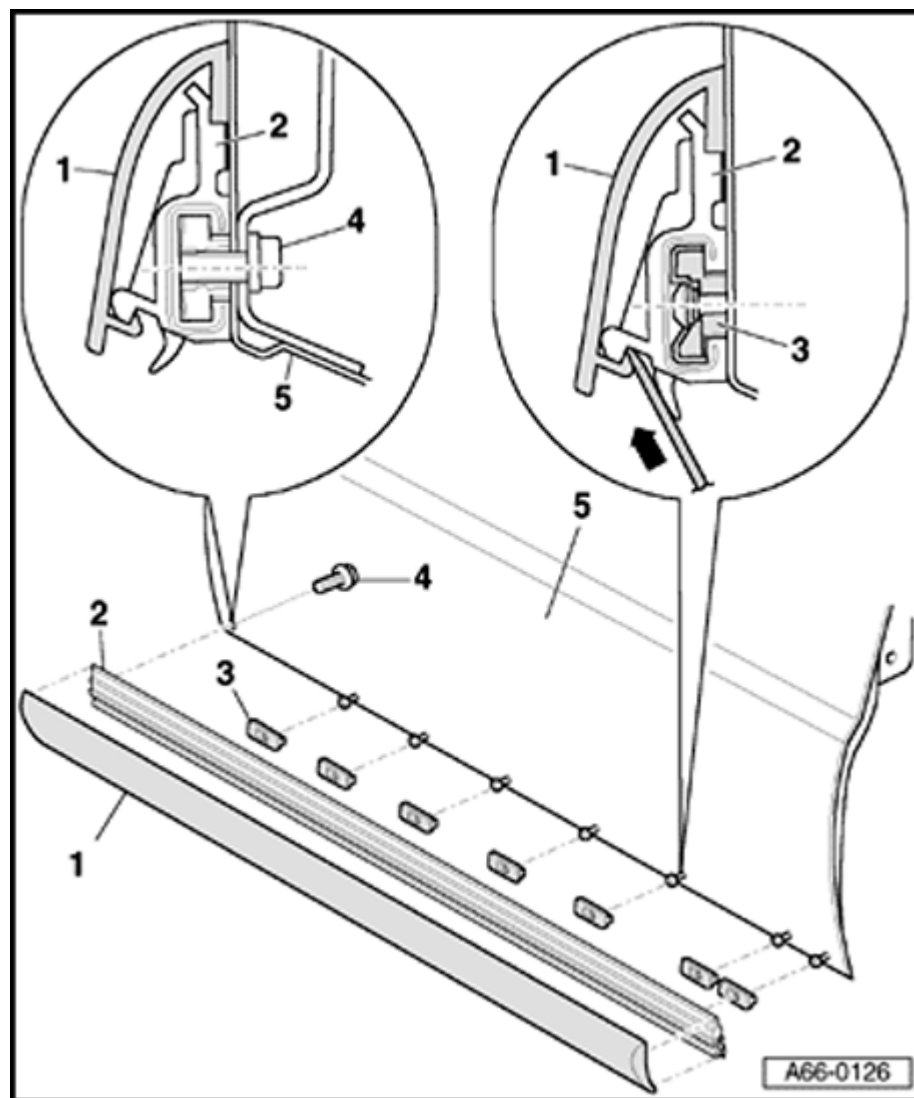
◆ Removing:

- Use screwdriver to gradually press tab on retaining strip upward and out of trim strip in direction of arrow.
- Pull trim strip to side out of retaining strip during this process.

◆ Installing:

- Align trim strip and place onto retaining strip from top to bottom.
- Press lower trim strip onto retaining strip from side.

66-4



2 - Retaining strip

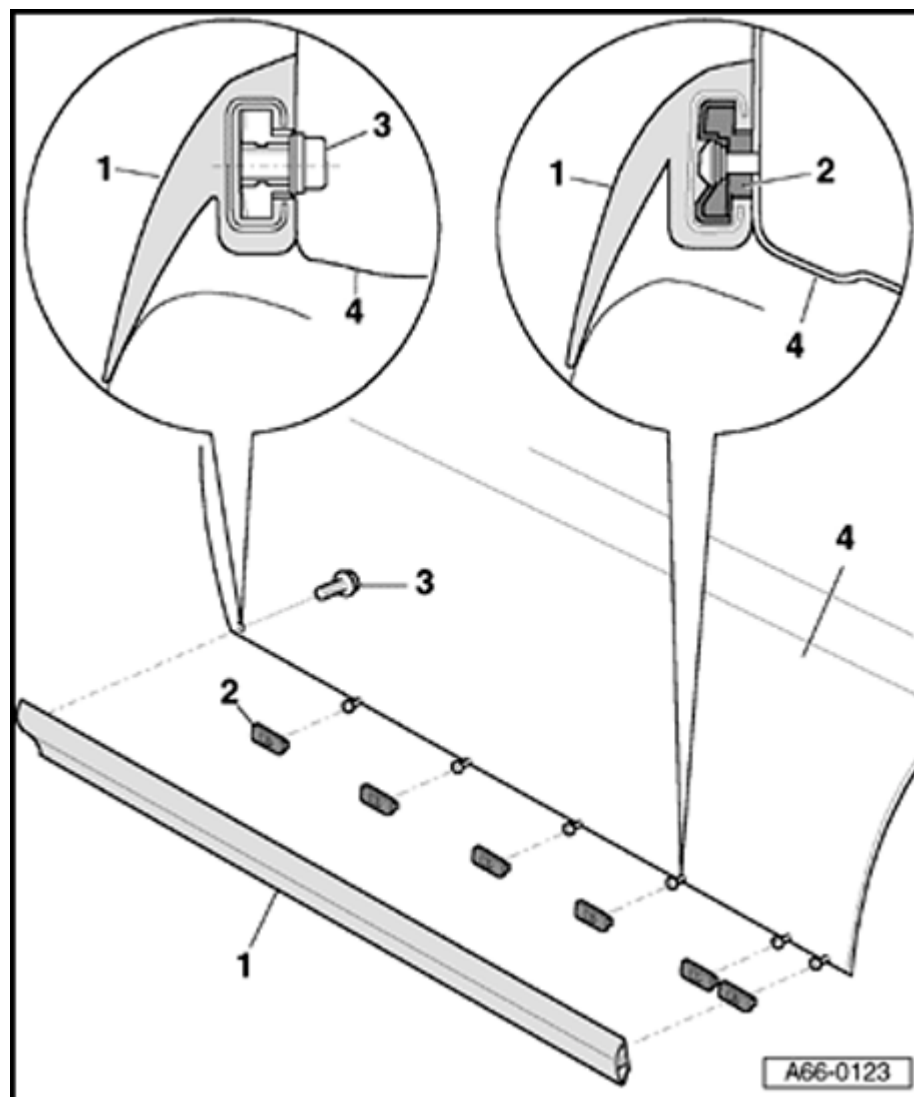
3 - Retaining clip

4 - Combination bolt

◆ 1 Nm

5 - Front door

66-5



Lower trim strip for rear door

Lower trim strip, removing and installing

1 - Lower trim strip

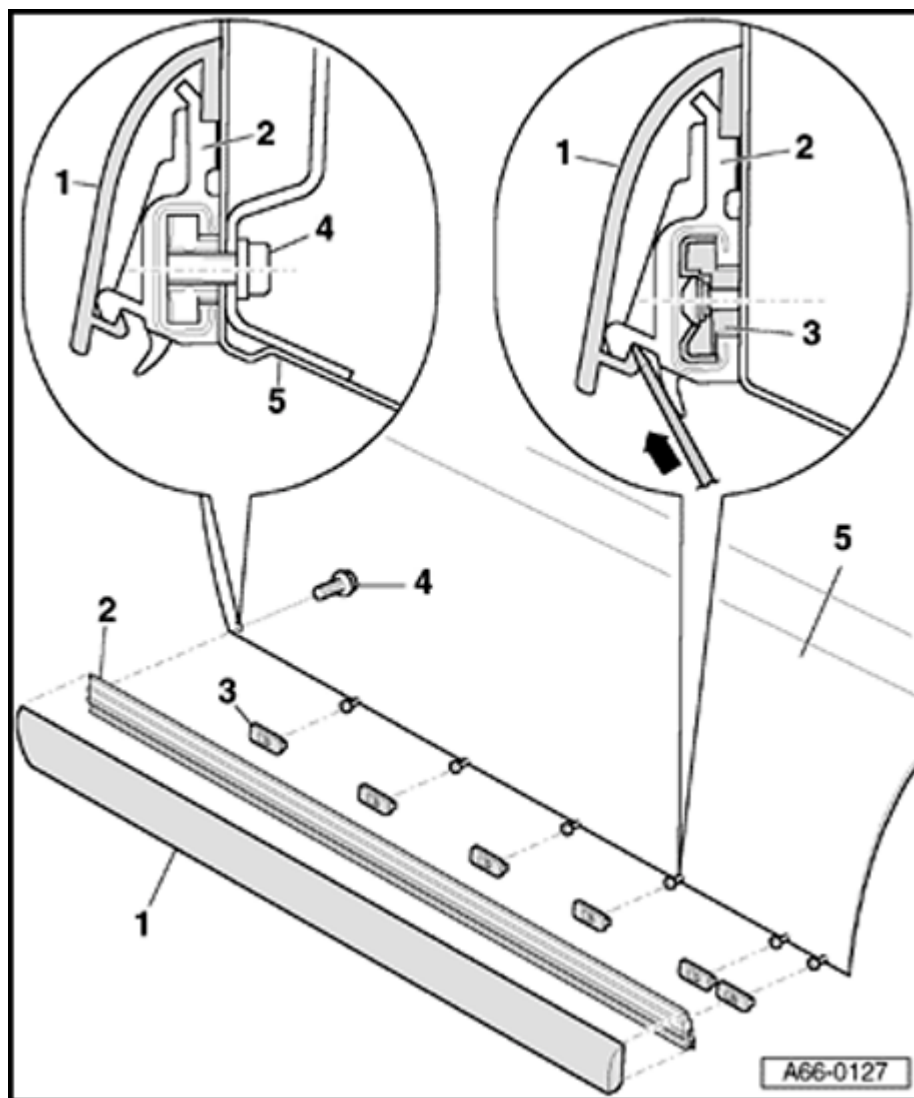
- ◆ Remove combination bolts -3- and slide trim strip out of retaining clips -2- toward rear.
- ◆ Remove trim strip from toward side of door.
- ◆ Installation is the reverse of removal.

2 - Retaining clip

3 - Combination bolt

- ◆ 1 Nm

4 - Rear doors



Lower trim strip, removing and installing (S4)

1 - Lower trim strip

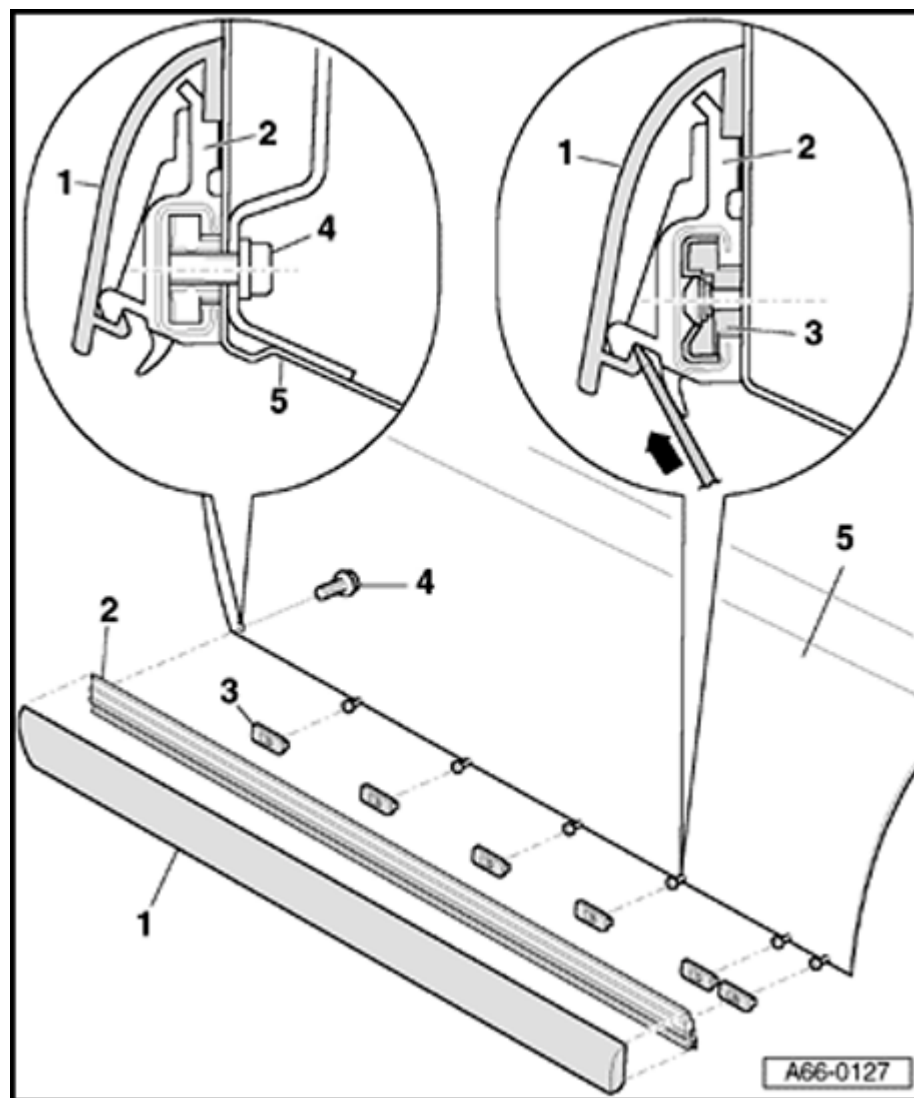
◆ Removing:

- To remove, gradually press tab on retaining strip upward and out of trim strip (arrow).
- Pull trim strip to side out of retaining strip during this process.

◆ Installing:

- Align trim strip and place onto retaining strip from top to bottom.
- Press lower trim strip onto retaining strip from side.

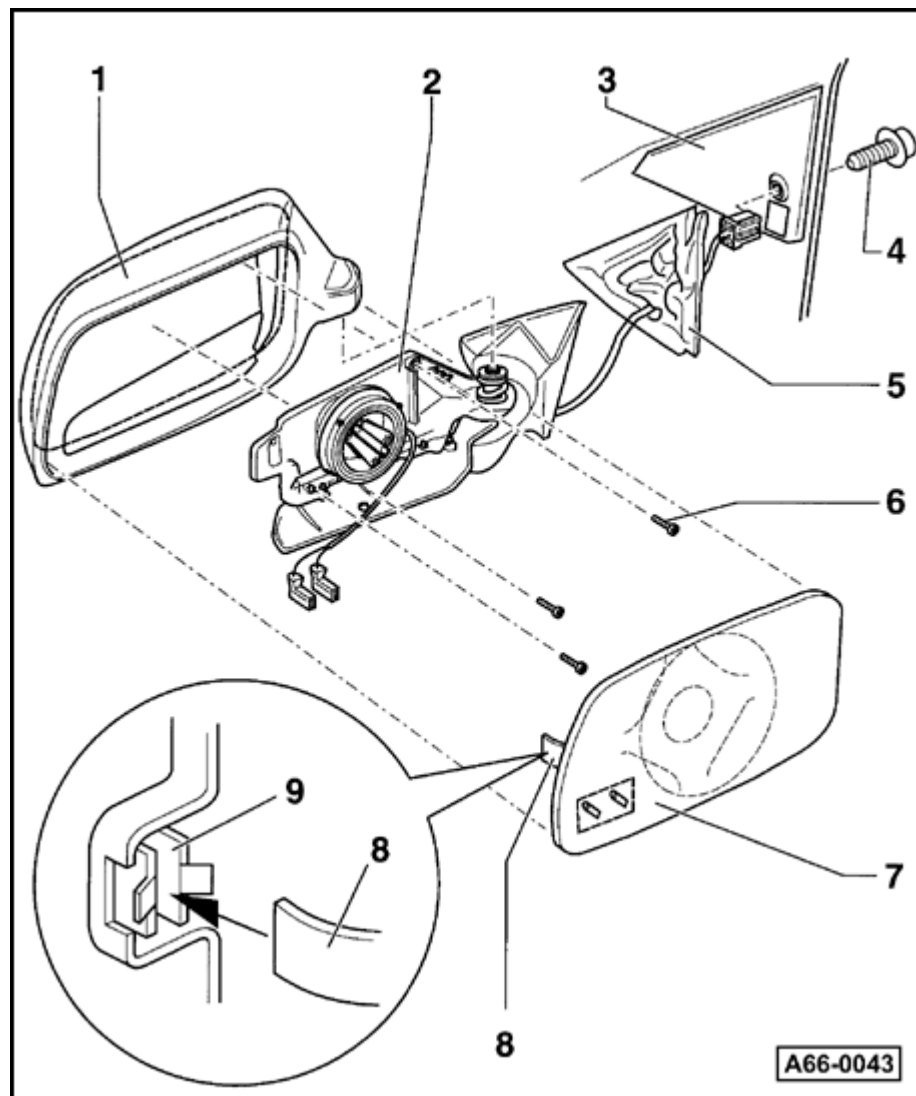
66-7

**2 - Retaining strip****3 - Retaining clip****4 - Combination bolt**

◆ 1 Nm

5 - Rear doors

66-14



Door mirrors

Door mirrors, removing and installing

1 - Mirror housing

- ◆ Can be removed from door without removing mirror completely ⇒ [page 66-16](#)

2 - Mirror adjuster

- ◆ Before removing, remove mirror from door
 - To remove, pry off mirror glass, disconnect harness connectors for mirror heating, remove phillips head screws -6- and take mirror adjuster -1- out of mirror housing.

Note:

On vehicles with seat memory, door trim must be removed before removing mirror adjuster.

3 - Door component carrier

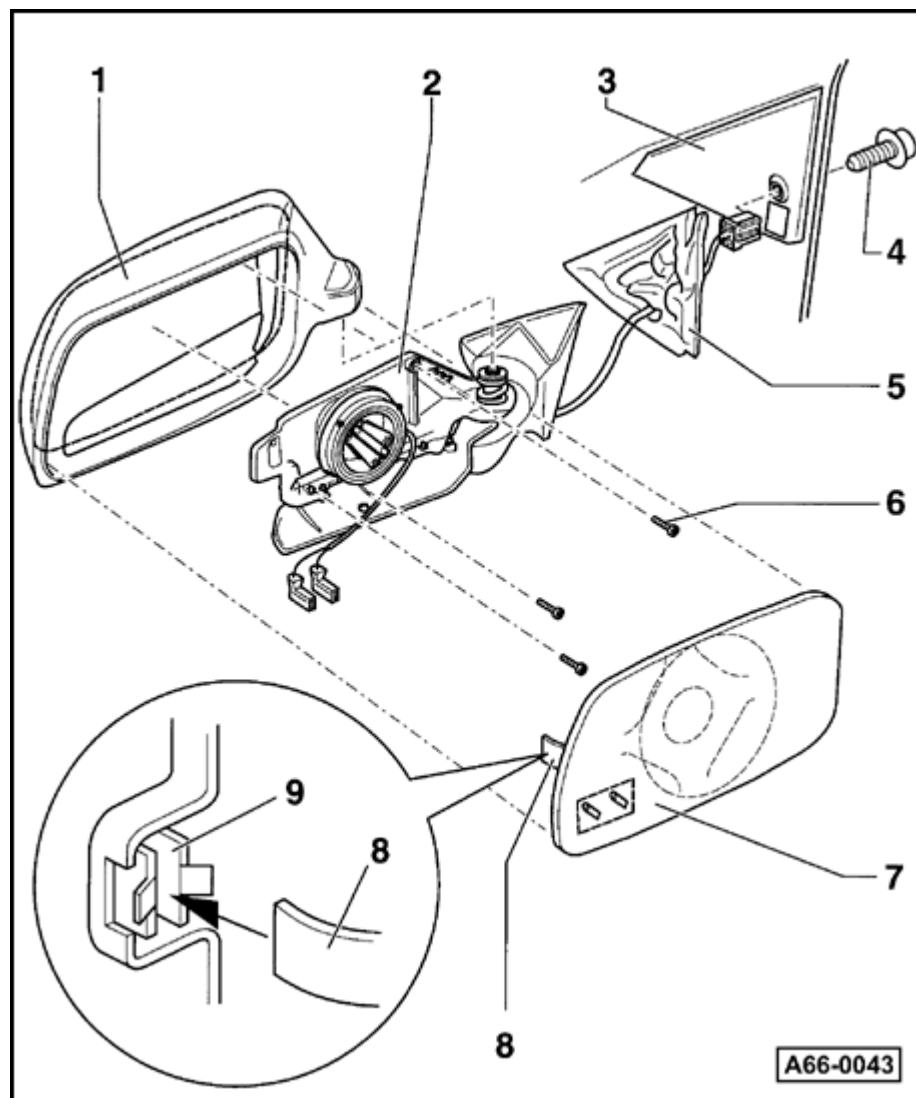
4 - Socket head screw

- ◆ 12 Nm (9 ft lb)

5 - Seal

- ◆ Check for correct fit during installation.

66-15

**6 - Phillips head screw**

- ◆ 1 Nm (9 in. lb)

7 - Mirror glass

- To remove, use special tool 80-200 (assembly lever).
- ◆ Use fabric reinforced adhesive tape at top and bottom to protect mirror housing from paint damage
- Pry mirror out at bottom first, then top.
- To install, first insert mirror lens into guide stud and friction finger in friction spring, then press on.
- ◆ Apply pressure only to center of lens; always wear protective gloves

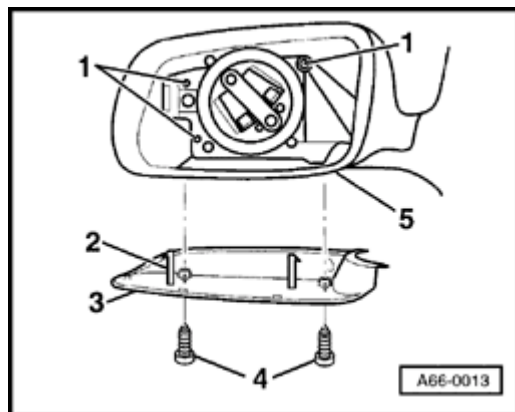
8 - Friction finger

- ◆ Friction finger -8- must be pushed into friction spring -9- when inserting mirror glass in housing

9 - Friction spring

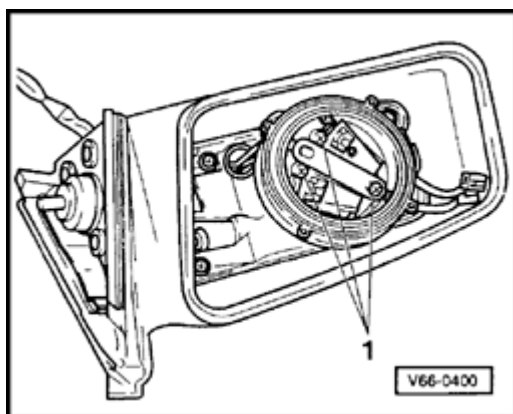
Door mirror housing, replacing

- Remove mirror glass.
- Remove screws -4- (2x).
- Press back retainers -2- and take off cover -3- downward.
- Remove screws -1- at mirror adjusting unit (3x).
- Lift up housing -5- and remove.



Power mirror adjuster, replacing

- Disconnect battery.
- Remove mirror glass.

**A**

- Remove screws -1- (3x)
Tightening torque: 1 Nm (9 in. lb)
- For mirror adjusting units with harness connectors, these should be removed before disassembly.

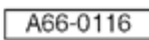
Note:

For mirror adjusting units with soldered wires, these should be separated individually directly at the housing.

- Install wiring into connector housing enclosed with replacement unit.

Note:

Transfer wire routing from old power mirror adjuster using correct wiring diagram.

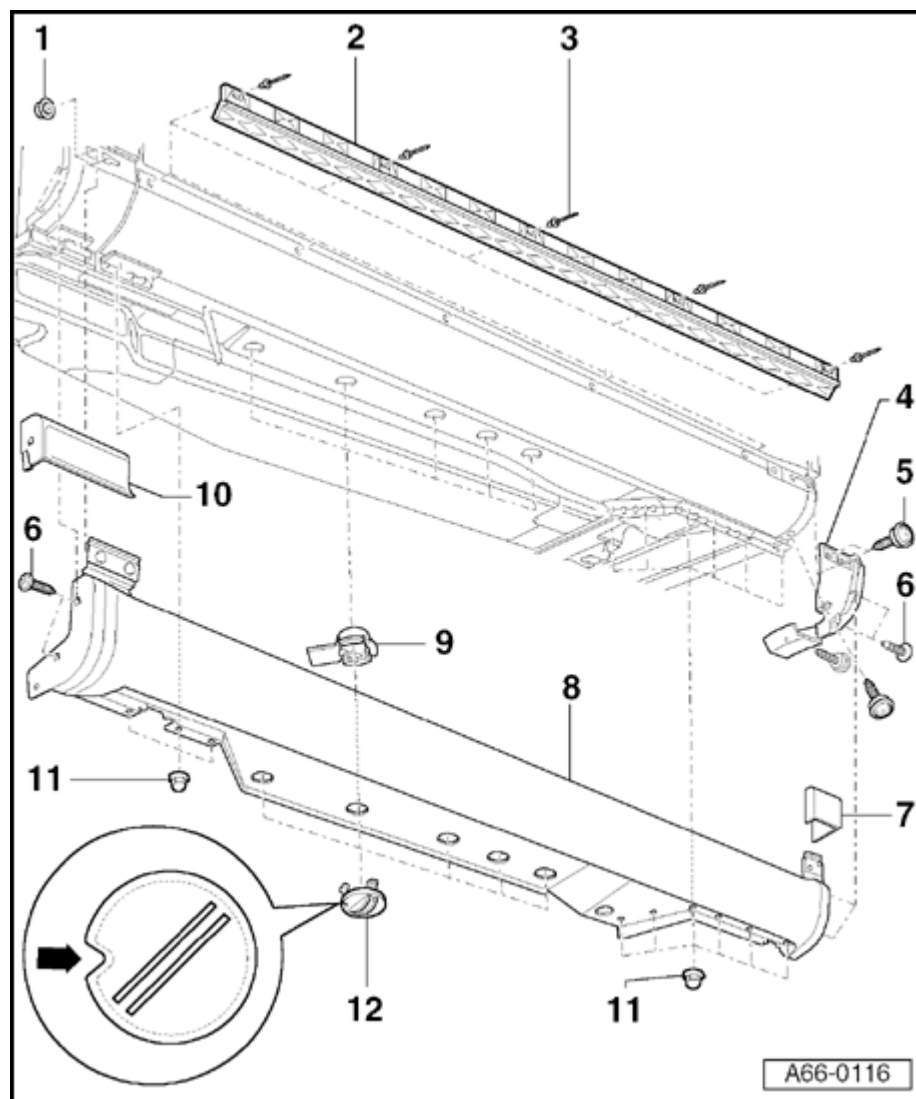


1 - Hex nut

2 - Retaining strip

- ◆ Adhesive surfaces must be free of dust and grease before pressing on retaining strip.
- ◆ Self-adhesive, remove protective foil just prior to assembly.
- Use hot air gun to warm retaining strip to approx. 40 ° C (max 50 ° C) before assembly.
- Center retaining strip using one hollow rivet at the front and one at the rear.
- Press complete surface of retaining strip securely into adhesive areas at sill.
- Rivet retaining strip to sill, starting at front and moving toward rear.

66-23

**3 - Hollow rivet**

◆ 5x.

4 - Bracket**5 - Collar screw**

◆ 1.5 Nm.

6 - Phillips-head screw

◆ 1.5 Nm.

7 - Rear trim piece◆ Removing ⇒ [Fig. 2](#) .**8 - Rocker panel cover for sill**◆ Before removing, remove rear trim piece - 7- ⇒ [Fig. 2](#) .

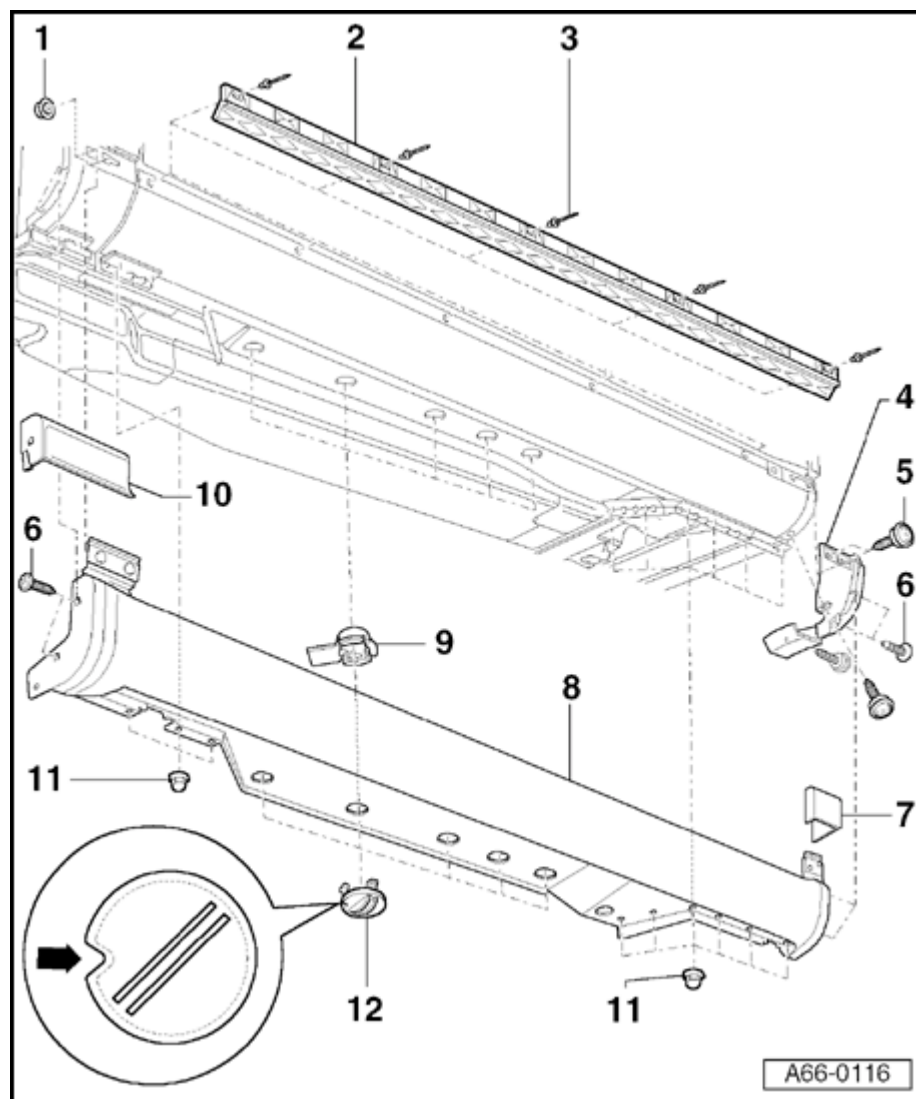
◆ Remove front end piece -10-.

- Remove Phillips-head screws -6- at front and rear.

- Disengage twist locks -12- and remove.

- Remove cap nuts -11-.

66-24

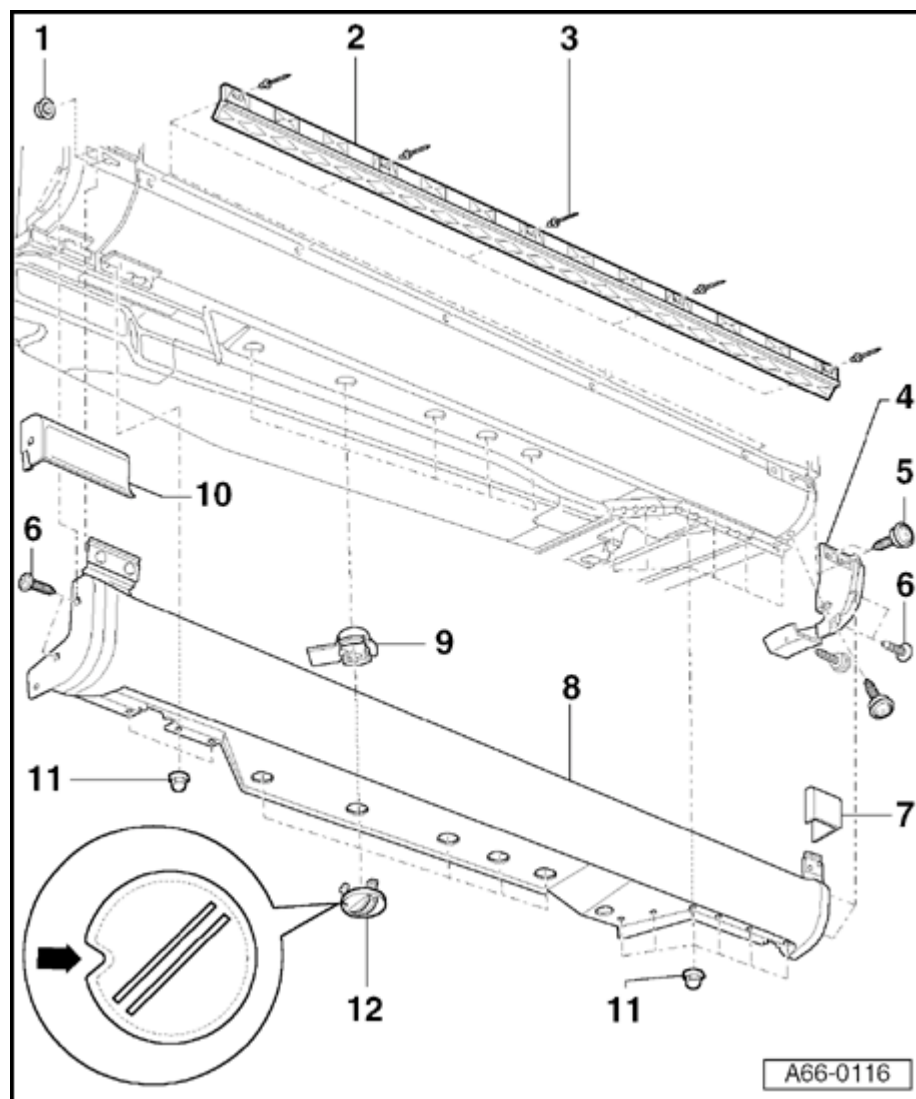


- Remove bolts for securing wheelhousing liner near hex nuts -1-.
- Press wheelhousing liner to side and remove hex nuts -1-.
- Bolts for securing the EVAP canister must also be removed on right-hand side.
- Pull rocker arm cover slightly forward out of bracket -4- and remove from sill.

9 - Mount for twist lock

- ◆ Tab on mount must face vehicle interior.

66-25

**10 - Front end piece**

◆ Removing ⇒ [Fig. 1](#) .

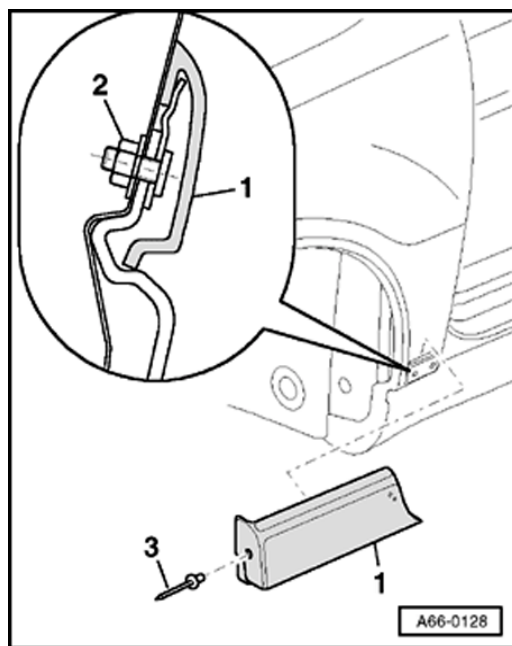
11 - Cap nut

◆ 1.5 Nm.

12 - Twist lock

◆ Notch (arrow) must face front of vehicle.

66-26

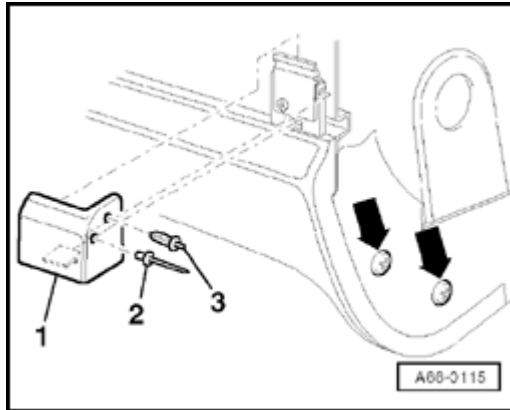


4

Fig. 1 Removing and installing front end piece

- Remove front wheel.
- Drill rivet heads off hollow rivets -3- and knock rivet shaft through.
- Remove wheelhousing liner bolts around front end piece.
- Press wheelhousing liner to side and remove hex nut -2-.
- Remove front end piece -1- from fender toward side.

66-27

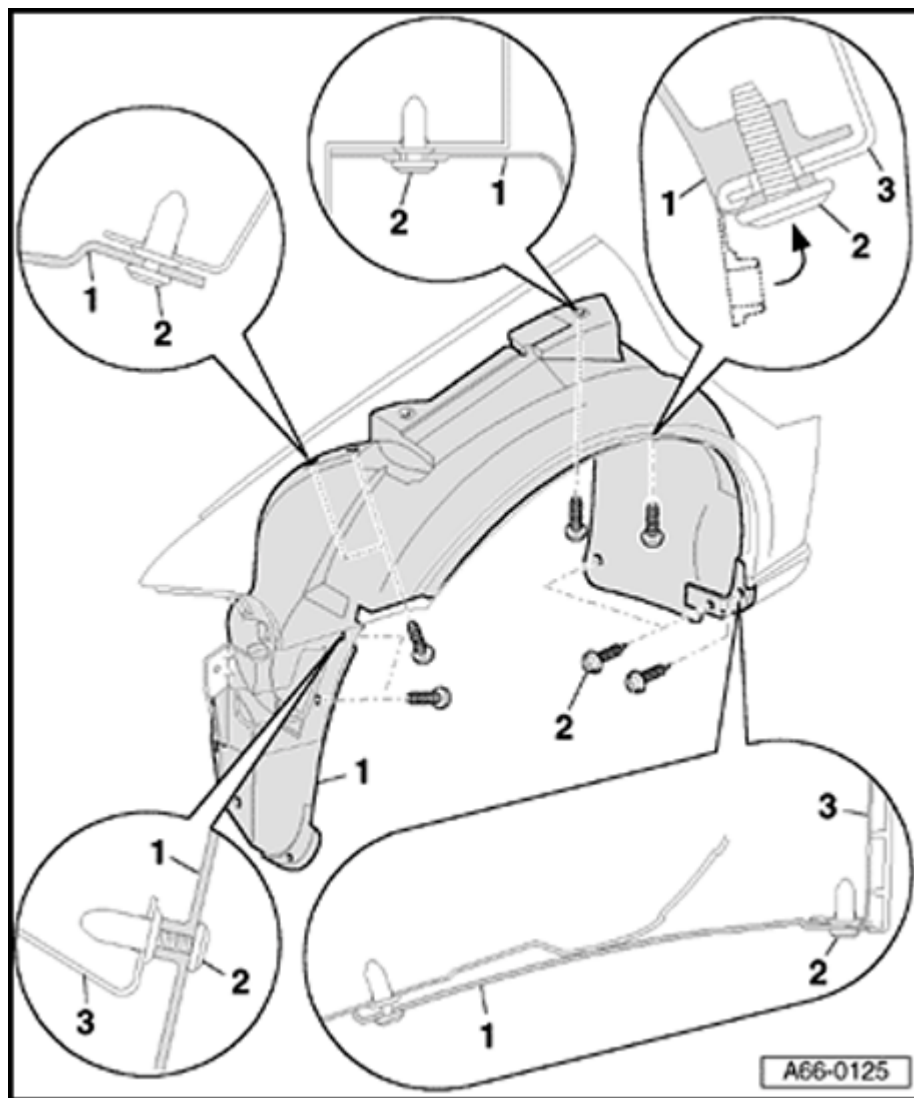


A

Fig. 2 Removing and installing rear trim piece

- Drill rivet head off hollow rivet -2- an knock rivet shaft through.
- Push pin through expanding clip and remove expanding clip from trim piece.
- Pin is required when reinstalling expanding clip.
- Pull trim piece up and out of bracket first and then remove.
- For further removal of rocker panel cover, remove Phillips-head screws (arrows).

66-31



Front wheelhousing liner, removing and installing

1 - Front wheelhousing liner

◆ Front wheel removed.

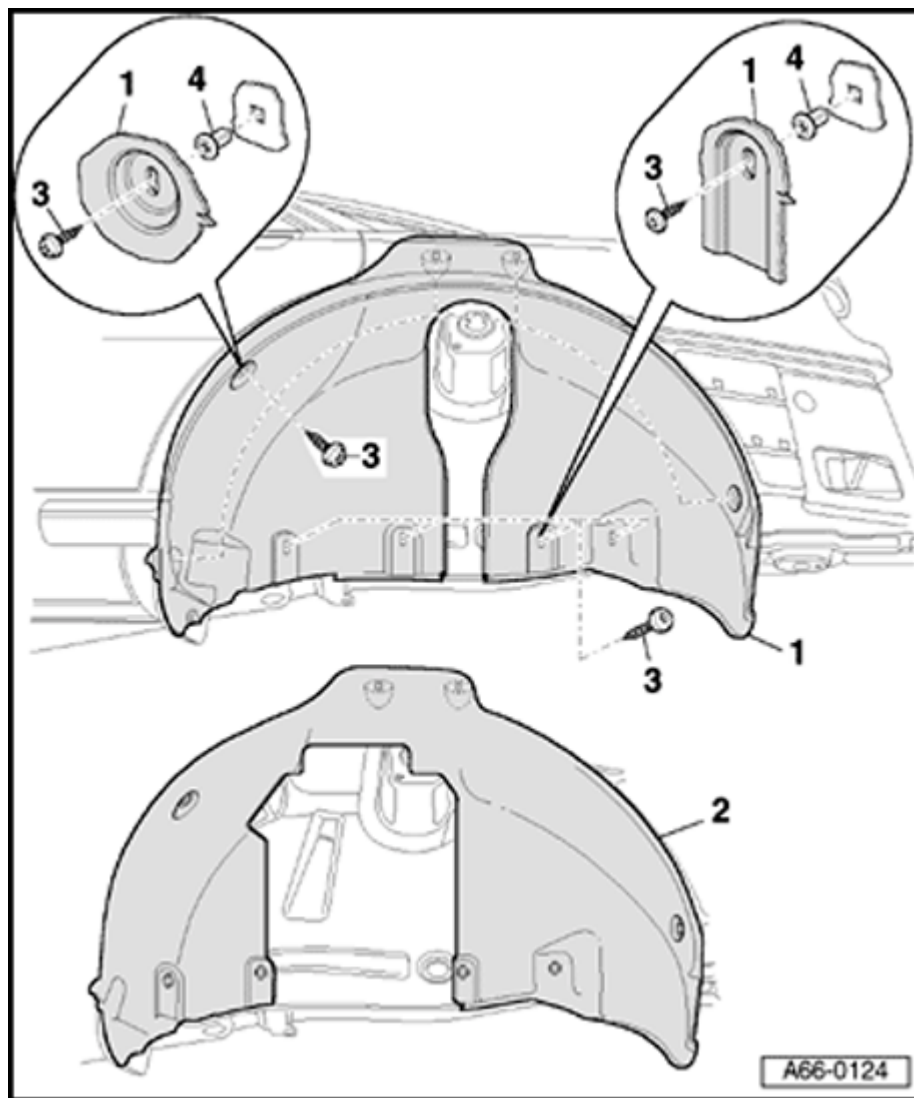
- To remove, remove bolts -2- (10x) and remove wheelhousing liner below fender.
- When installing, press plastic tabs (dotted line in illustration) in direction of arrow into the holes on fender and then install Phillips-head screws.

2 - Phillips-head screws

◆ 2.5 Nm

3 - Fender

66-32



Rear wheelhousing liner, removing and installing

1 - Rear wheelhousing liner (Front Wheel Drive vehicles)

◆ Rear wheel removed.

- Remove Phillips-head screws -3- at top (5x) and bottom (4x).
- Remove wheelhousing liner from side panel above suspension strut mount.

2 - Rear wheelhousing liner (Quattro)

◆ Removing and installing same as for Front Wheel Drive.

3 - Phillips-head screw

◆ 2.5 Nm

4 - Clip