



Repair Manual

Golf 2013 ➤

e-Golf 2014 ➤

Body Exterior

Edition 05.2015





List of Workshop Manual Repair Groups

Repair Group

- 50 - Body Front
- 55 - Hood, Lids
- 57 - Front Doors, Central Locking System
- 58 - Rear Doors
- 60 - Sunroof
- 63 - Bumpers
- 64 - Glass, Window Regulators
- 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

(Edition 05.2015)

⇒ [“1.1 Overview - Lock Carrier”, page 1](#)

⇒ [“1.2 Lock Carrier, Removing and Installing”, page 3](#)

⇒ [“1.3 Service Position, Performing and Resetting”, page 7](#)

⇒ [“1.4 Lock Carrier, Servicing”, page 10](#)

1.1 Overview - Lock Carrier

⇒ [“1.1.2 Overview - Lock Carrier”, page 3](#)

1.1.1 Overview - Lock Carrier

Volkswagen R GmbH “R-Line” and “R” optional equipment

1 - Lock Carrier with Attachments

- ☐ For the allocation. Refer to the Parts Catalog.
- ☐ Removing and installing. Refer to
⇒ [“1.2 Lock Carrier, Removing and Installing”, page 3](#)
- ☐ Service Position, Performing and Resetting. Refer to
⇒ [“1.3 Service Position, Performing and Resetting”, page 7](#)

2 - Carrier Piece

- ☐ Left

3 - Bolt

- ☐ 8.0 Nm
- ☐ Quantity: 1 on each side

4 - Bolt

- ☐ 8.0 Nm
- ☐ Quantity: 2 on each side

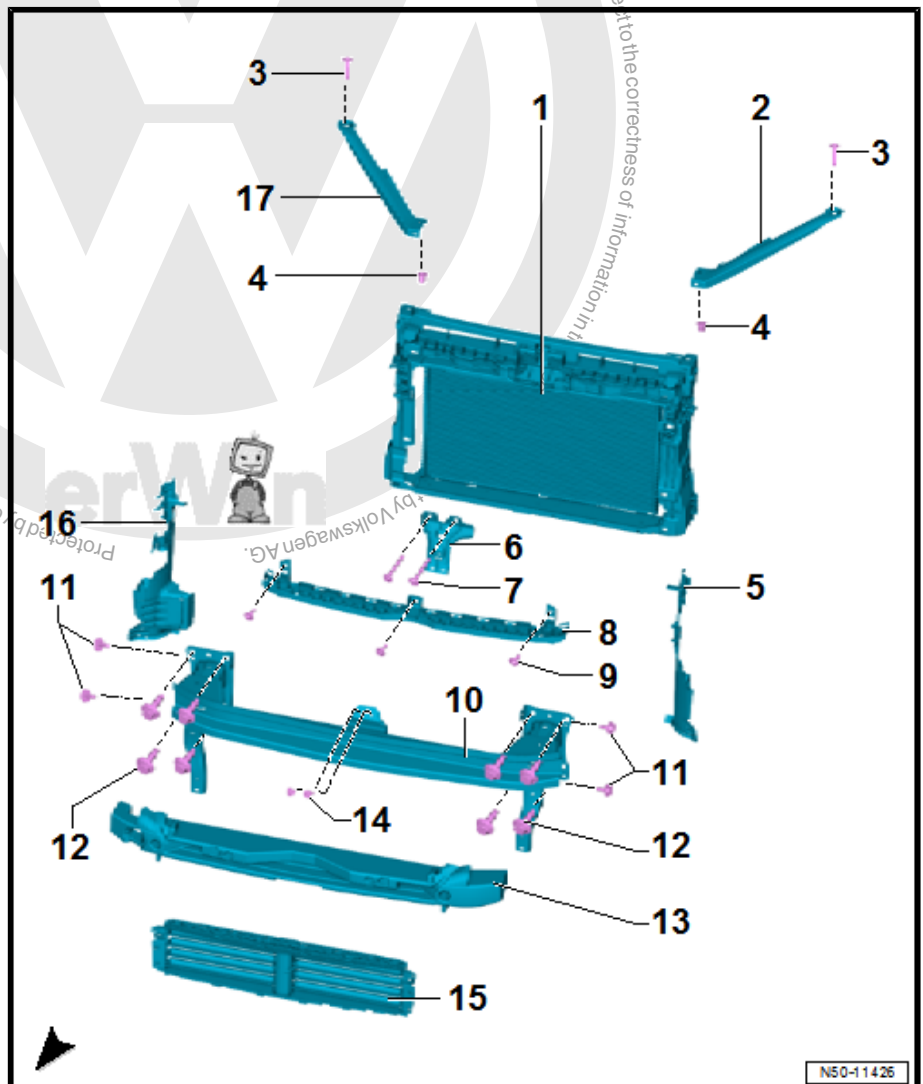
5 - Air Guide

- ☐ Left
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

6 - Support, Lock Carrier

7 - Bolt

- ☐ 12 Nm
- ☐ Quantity: 2 on each side



N50-11426



8 - Center Guide

9 - Bolt

- ☐ 8.0 Nm
- ☐ 3 or 4 depending on the model

10 - Bumper Carrier

11 - Bolt

- ☐ 8.0 Nm
- ☐ Quantity: 2 on each side

12 - Bolt

- ☐ 55 Nm
- ☐ Quantity: 4 on each side

13 - Foam Piece

- ☐ For the allocation. Refer to the Parts Catalog.

14 - Bolt

- ☐ 12 Nm
- ☐ Quantity: 2

15 - Adjustable Air Guide

- ☐ For the allocation. Refer to the Parts Catalog.

16 - Air Guide

- ☐ Right
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

17 - Carrier Piece

- ☐ Right





1.1.2 Overview - Lock Carrier

1 - Lock Carrier with Attachments

- ☐ Removing and installing. Refer to
⇒ ["1.2 Lock Carrier, Removing and Installing", page 3](#).
- ☐ Service Position, Performing and Resetting. Refer to
⇒ ["1.3 Service Position, Performing and Resetting", page 7](#).

2 - Carrier Piece

- ☐ Left and right

3 - Air Guide

- ☐ Left and right

4 - Support, Lock Carrier

5 - Hex Nut

- ☐ 12 Nm
- ☐ Quantity: 2

6 - Center Guide

7 - Bolt

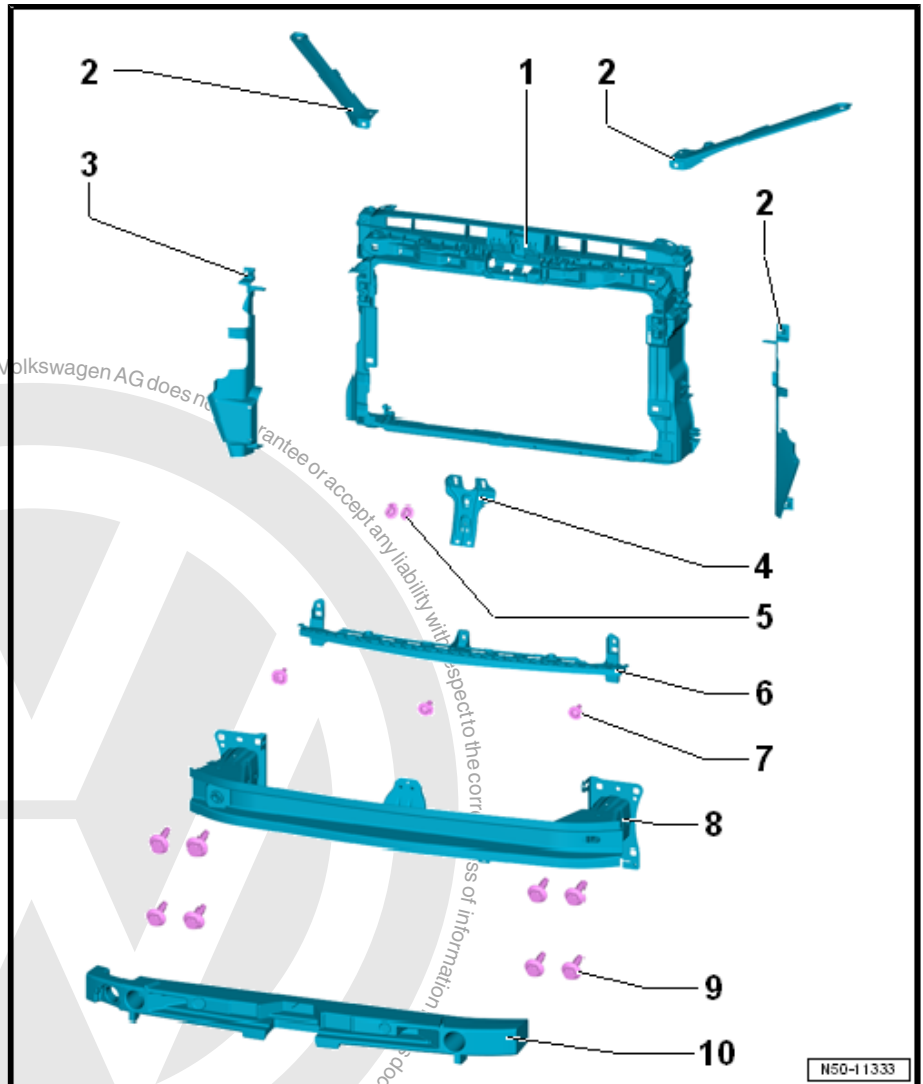
- ☐ 8.0 Nm
- ☐ Quantity: 3

8 - Bumper Carrier

9 - Bolt

- ☐ 55 Nm
- ☐ Quantity: 4 on each side

10 - Foam Piece



1.2 Lock Carrier, Removing and Installing

⇒ ["1.2.1 Lock Carrier, Removing and Installing, Gasoline/Diesel", page 4](#)

⇒ ["1.2.2 Lock Carrier, Removing and Installing - e-Golf", page 5](#)

Special tools and workshop equipment required

- ◆ Guide Pins - T10093-
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-
- ◆ Torque Wrench 1332 40-200Nm - VAG1332-

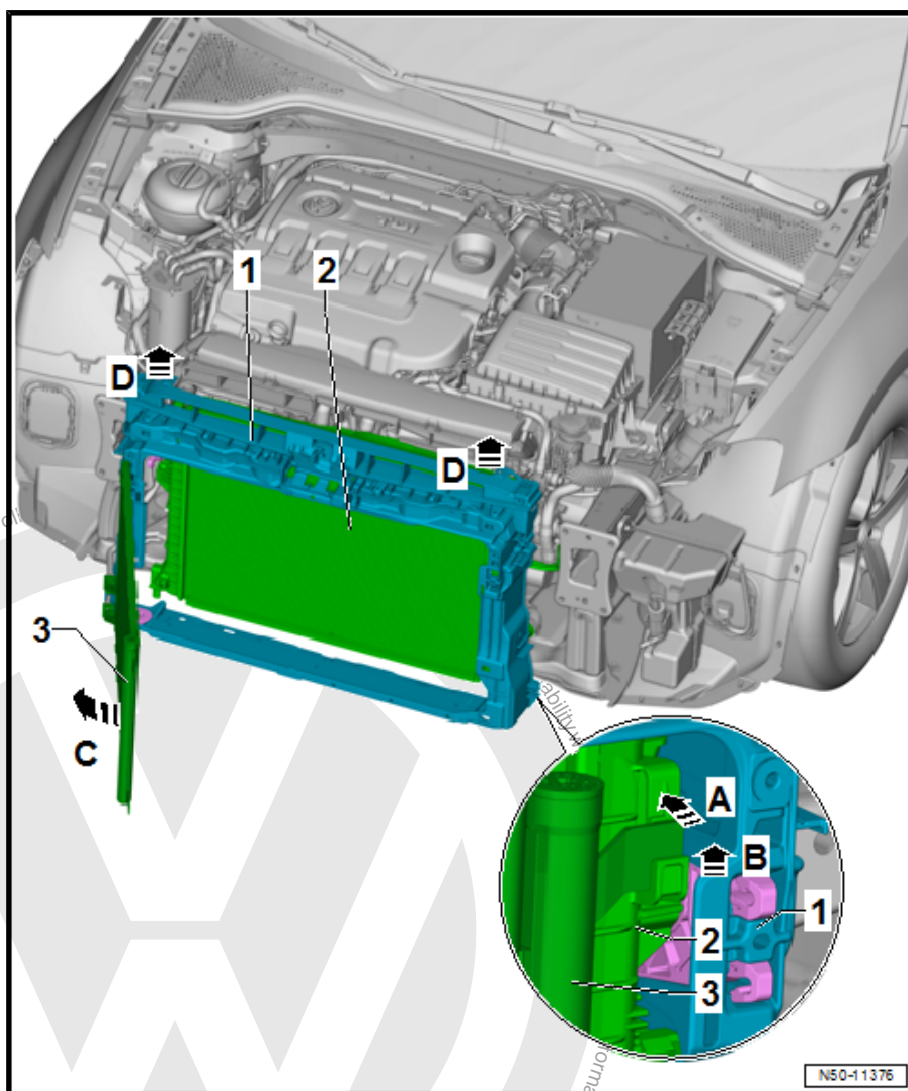


1.2.1 Lock Carrier, Removing and Installing, Gasoline/Diesel



Note

- ◆ The lock carrier is a safety-relevant component. For this reason the lock carrier can only be serviced in the specified positions.
- ◆ Replace the lock carrier if it is damaged.
- ◆ For vehicles with the Distance Regulation Control Module - J428- for each removal and installation or, replacing of the lock carrier the Distance Regulation Control Module - J428- must be newly aligned.
- ◆ For notes and work procedures for the Distance Regulation Control Module - J428- . Refer to ➔ Electrical Equipment; Rep. Gr. 27 ; Adaptive Cruise Control .



Removing

- Only perform the service position with Guide Pins - T10093- . Refer to ["1.3 Service Position, Performing and Resetting", page 7](#) .
- Together with a second technician, remove the Guide Pins T10093- on the left and right longitudinal member. Support the



lock carrier with the attachments -1-. For example on the Scissor Lift Table - VAS6131 A- .

- Remove the bumper carrier and support. Refer to ➔ ["1.1.1 Overview - Lock Carrier", page 1](#)
- Loosen the radiator from the lock carrier -arrow a-, but do not remove. Refer to ➔ Engine Mechanical; Fuel Injection and Ignition; Rep. Gr. 19 ; Radiator/Radiator Fan .
- Pry up the condenser -3- from the radiator -2- -arrow b- and pivot slightly out of the lock carrier -arrow c-, but do not remove.
- Remove the lock carrier -1- between the radiator and condenser upward -d arrows-.



Note

- ◆ *Never hang the condenser and the hydraulic fluid cooler on the lines.*
- ◆ *Lines for condenser and hydraulics must not be kinked.*

Installing

Install in reverse order of removal. Note the following:



Note

- ◆ *Always install the lock carrier on the attaching point in as far forward as possible in the oblong hole. Only then can the lock carrier slide in the event of a crash.*
- ◆ *For vehicles with the Distance Regulation Control Module - J428- for each loosening, removal and installation or, replacing of the lock carrier the Distance Regulation Control Module - J428- must be newly aligned.*
- ◆ *For notes and work procedures for the Distance Regulation Control Module - J428- . Refer to ➔ Electrical Equipment; Rep. Gr. 27 ; Adaptive Cruise Control .*

Tightening Specifications

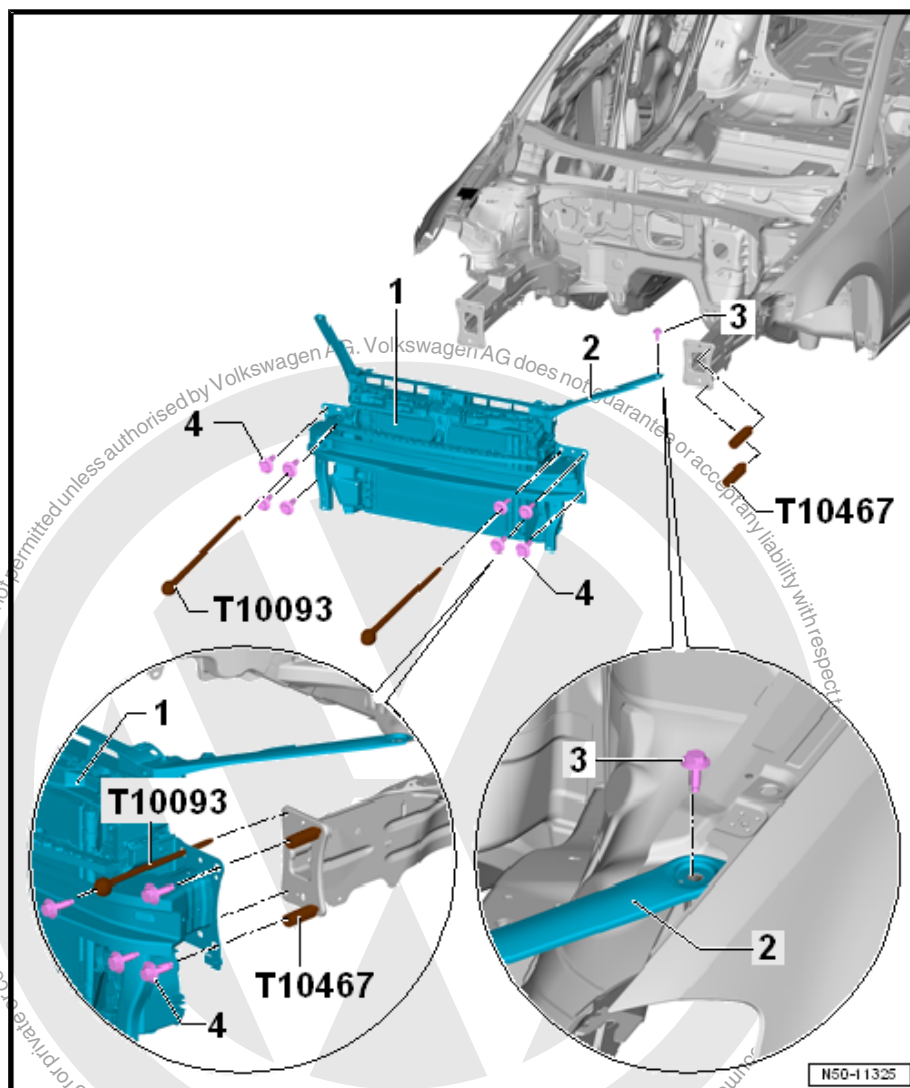
- ◆ Lock Carrier. Refer to ➔ ["1.1 Overview - Lock Carrier", page 1](#) .

1.2.2 Lock Carrier, Removing and Installing - e-Golf



Note

- ◆ *The lock carrier is a safety-relevant component. For this reason the lock carrier can only be serviced in the specified positions.*
- ◆ *Replace the lock carrier if it is damaged.*
- ◆ *For vehicles with the Distance Regulation Control Module - J428- for each removal and installation or, replacing of the lock carrier the Distance Regulation Control Module - J428- must be newly aligned.*
- ◆ *For notes and work procedures for the Distance Regulation Control Module - J428- . Refer to ➔ Electrical Equipment; Rep. Gr. 27 ; Adaptive Cruise Control .*



Removing

- Only perform the service position with Guide Pins - T10093- .
Refer to
⇒ [“1.3 Service Position, Performing and Resetting”](#),
[page 7](#) .
- Disconnect any connectors.
- Drain the coolant and disconnect the coolant lines. Refer to ⇒
Rep. Gr. 19 ; Coolant System/Coolant; Coolant, Draining and
Filling .
- Disconnect the refrigerant lines for the condenser. Refer to ⇒
Heating, Ventilation and Air Conditioning; Rep. Gr. 87 ; Re-
frigerant Circuit; Condenser, Removing and Installing .
- Remove the bolt and the special tool Guide Pins - T10093- .
- Together with a second technician, remove the Guide Pins -
T10093- on the left and right longitudinal member.
- Pry out the lock carrier with the attachments -1-.



WARNING

Do not start the engine whenever the A/C system or coolant lines are disconnected.



Note

- ◆ *Never hang the condenser and the hydraulic fluid cooler on the lines.*
- ◆ *Lines for condenser and hydraulics must not be kinked.*

Installing

Install in reverse order of removal. Note the following:



Note

- ◆ *Always install the lock carrier on the attaching point in as far forward as possible in the oblong hole. Only then can the lock carrier slide in the event of a crash.*
- ◆ *For vehicles with the Distance Regulation Control Module - J428- for each loosening, removal and installation or, replacing of the lock carrier the Distance Regulation Control Module - J428- must be newly aligned.*
- ◆ *For notes and work procedures for the Distance Regulation Control Module - J428- . Refer to ⇒ Electrical Equipment; Rep. Gr. 27 ; Adaptive Cruise Control .*

Tightening Specifications

- ◆ Lock Carrier. Refer to
⇒ ["1.1 Overview - Lock Carrier", page 1](#) .

1.3 Service Position, Performing and Resetting

Special tools and workshop equipment required

- ◆ Guide Pins - T10093-
- ◆ Adapters For Service Position - T10467-
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-
- ◆ Torque Wrench 1332 40-200Nm - VAG1332-

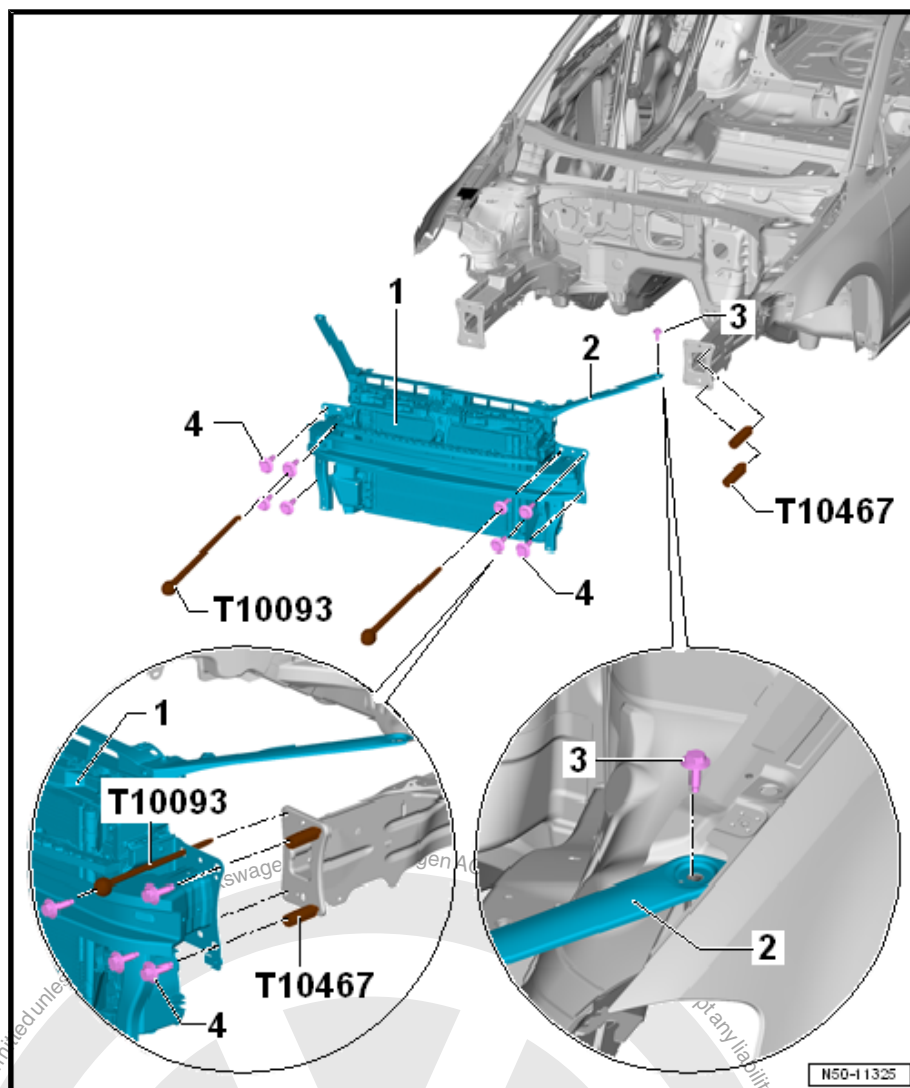


Service Position, Implementing



Note

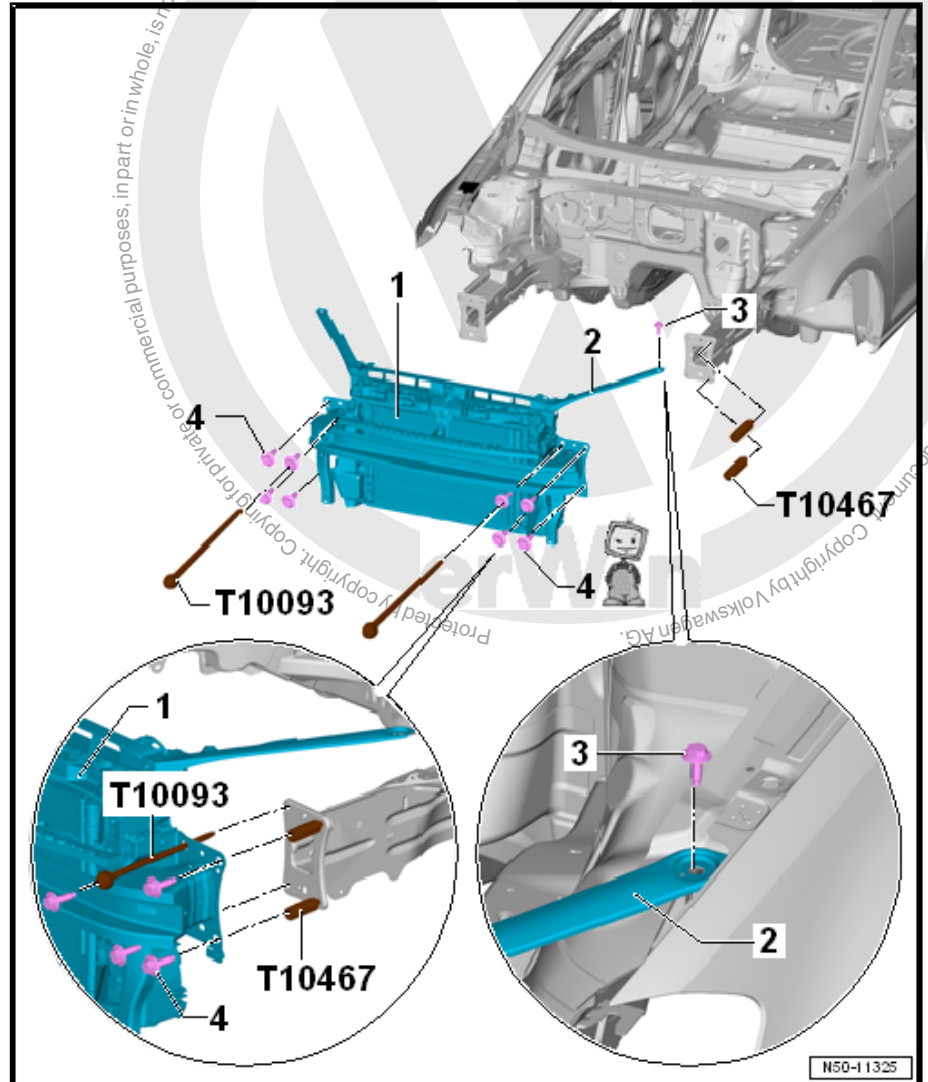
- ◆ *The lock carrier is a safety-relevant component. For this reason it cannot be serviced.*
- ◆ *Replace the lock carrier if it is damaged.*
- ◆ *For vehicles with the Distance Regulation Control Module - J428- for each removal and installation or, replacing of the lock carrier the Distance Regulation Control Module - J428- must be newly aligned.*
- ◆ *For notes and work procedures for the Distance Regulation Control Module - J428- . Refer to ⇒ Electrical Equipment; Rep. Gr. 27 ; Adaptive Cruise Control .*



- Remove the front bumper cover. Refer to
⇒ [“1.4 Bumper Cover, Removing and Installing”, page 248](#) .
- Remove the headlamps. Refer to ⇒ Electrical Equipment;
Rep. Gr. 94 ; Headlamp; Headlamp, Removing and Installing .
- Remove the cable from the trunk lid actuation bracket. Refer
to
⇒ [“1.12 Release Cable, Removing and Installing”,
page 50](#) .
- Disengage the washer fluid reservoir filler tube from the sup-
port -2-. Refer to ⇒ Electrical Equipment; Rep. Gr. 92 ;
Windshield Washer System; Windshield Washer Fluid Reser-
voir, Removing and Installing .
- Remove only one bolt -3- from the left and right longitudinal
members.
- Install a Guide Pins - T10093- into the holes in the left and right
longitudinal member where the bolts were.
- Remove the remaining bolts -3- in the left and right longitudinal
members.
- Pull the lock carrier and attachments -1- forward approximate-
ly 10 cm on the Guide Pins - T10093- . Be careful of the wires
on the lock carrier. Disconnect the connectors if necessary.

- Install the Adapters For Service Position - T10467- (two on each side) on the left and right side between the bumper carrier and the longitudinal member.

Service Position, Resetting



- Remove the Adapters For Service Position - T10467- on the left and right side between the bumper carrier and longitudinal member.
- Push the lock carrier and its attachments -1- onto the Guide Pins - T10093- on the longitudinal member.
- Install the left and right bolts -3-.
- Remove the left and right Guide Pins - T10093- .
- Align the lock carrier and its attachments -1- on the longitudinal members and between the fenders. Refer to ➔ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .



Note

- ◆ *Always install the lock carrier on the attaching point in as far forward as possible in the oblong hole. Only then can the lock carrier slide in the event of a crash.*
- ◆ *For vehicles with the Distance Regulation Control Module - J428- for each loosening, removal and installation or, replacing of the lock carrier the Distance Regulation Control Module - J428- must be newly aligned.*
- ◆ *For notes and work procedures for the Distance Regulation Control Module - J428- . Refer to ⇒ Electrical Equipment; Rep. Gr. 27 ; Adaptive Cruise Control .*

Continue to install in the reverse of removal. Note the following:



Note

- ◆ *Make sure the charge air cooler pressure hoses are secure*
- ◆ *Hoses and lines must not be pinched.*
- Adjust the headlamp. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; Headlamp; Headlamp, Adjusting .

Tightening Specifications

1.4 Lock Carrier, Servicing

⇒ ["1.4.1 Left Headlamp Mount", page 10](#)

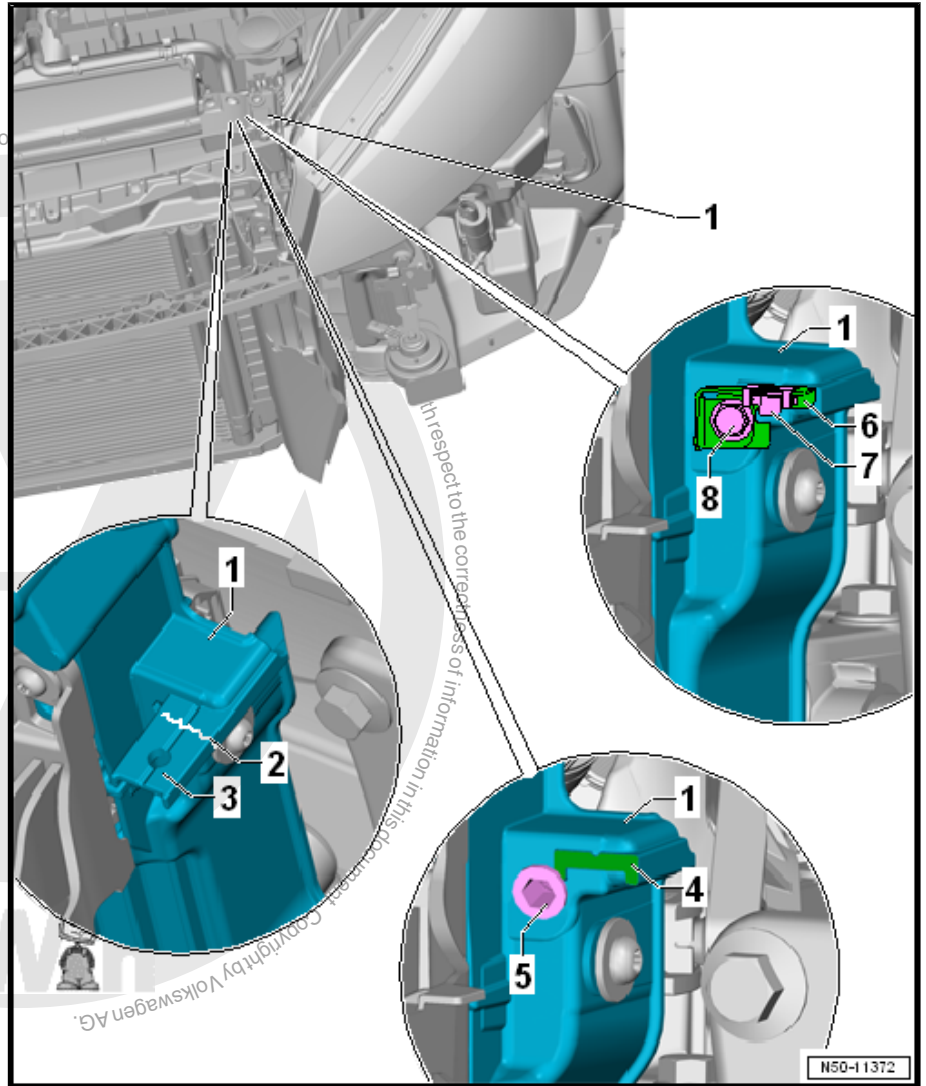
⇒ ["1.4.2 Right Headlamp Mount", page 12](#)

1.4.1 Left Headlamp Mount



Note

The line -2- shows a possible crack.



- Remove the front bumper cover. Refer to
⇒ ["1.4 Bumper Cover, Removing and Installing", page 248](#) .
- Remove the headlamps. Refer to ⇒ Electrical Equipment;
Rep. Gr. 94 ; Headlamp; Headlamp, Removing and Installing .
- Cut or saw the headlamp mount -4- flat off the lock carrier
-1-.
- Place the rivets -5-.
- Install the new bracket -6- with spring nut -7-.
- Tighten the bolt -8-.

Tightening Specifications

Component	Tightening specification
Bolt	5 Nm

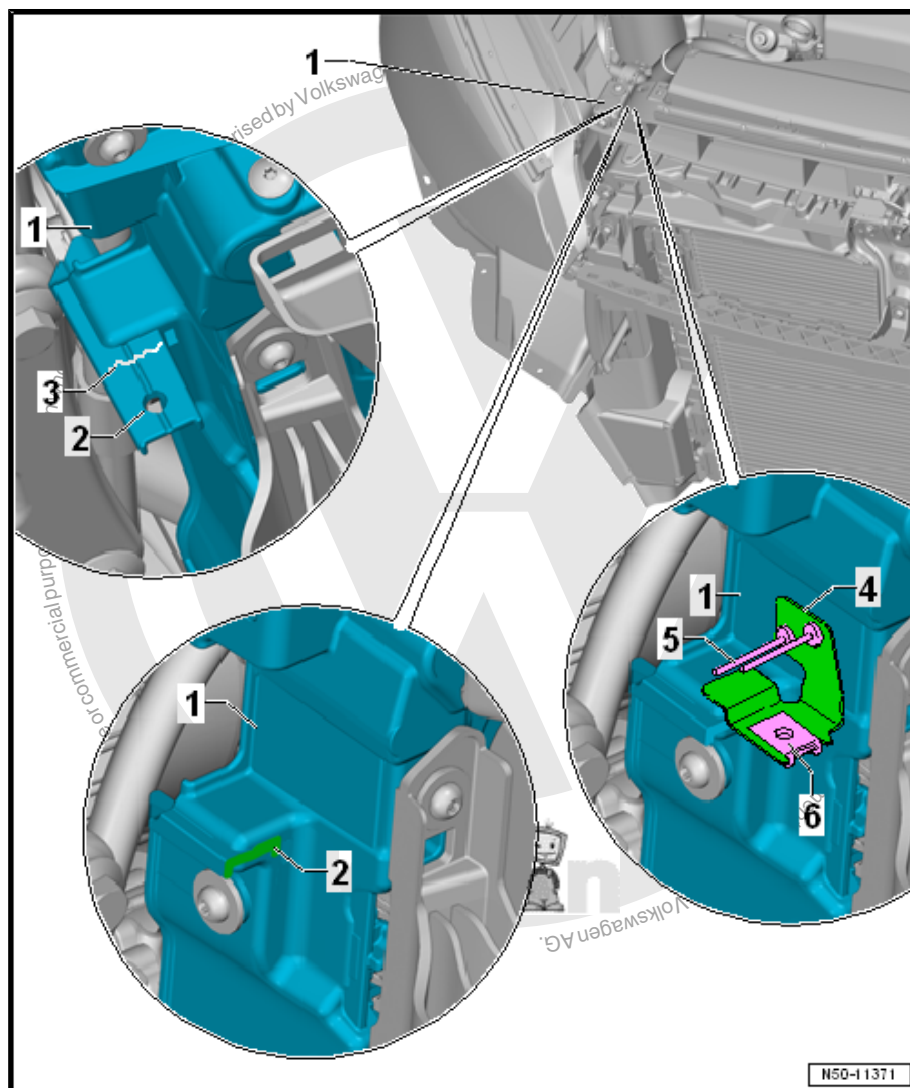


1.4.2 Right Headlamp Mount



Note

The line -3- shows a possible crack.



- Remove the front bumper cover. Refer to [⇒ "1.4 Bumper Cover, Removing and Installing", page 248](#).
- Remove the headlamps. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; Headlamp; Headlamp, Removing and Installing .
- Cut or saw the headlamp mount -2- flat off the lock carrier -1-.
- Install the new bracket -4- with spring nut -6-.
- Place the blind rivet -5-.



2 Fender

⇒ ["2.1 Overview - Fender", page 13](#)

⇒ ["2.2 Overview - Deformation Element", page 14](#)

⇒ ["2.3 Fender, Removing and Installing", page 14](#)

⇒ ["2.4 Fender Brace, Removing and Installing", page 17](#)

2.1 Overview - Fender

Volkswagen R GmbH "R-Line" and "R" optional equipment



Note

The illustration shows the left side. The right side is identical.

1 - Fender

- ☐ Removing and installing. Refer to
⇒ ["2.3 Fender, Removing and Installing", page 14](#).

2 - Bolt

- ☐ 6.0 Nm
- ☐ A-pillar, quantity: 2

3 - Bolt

- ☐ 6.0 Nm
- ☐ Sill panel, quantity: 2

4 - Noise Insulation

- ☐ Installed between the fender and A-pillar

5 - Fender Noise Insulation

- ☐ Inserted between the fender and the wheel housing longitudinal member

6 - Hex Nut

- ☐ 2.0 Nm
- ☐ Quantity: 2

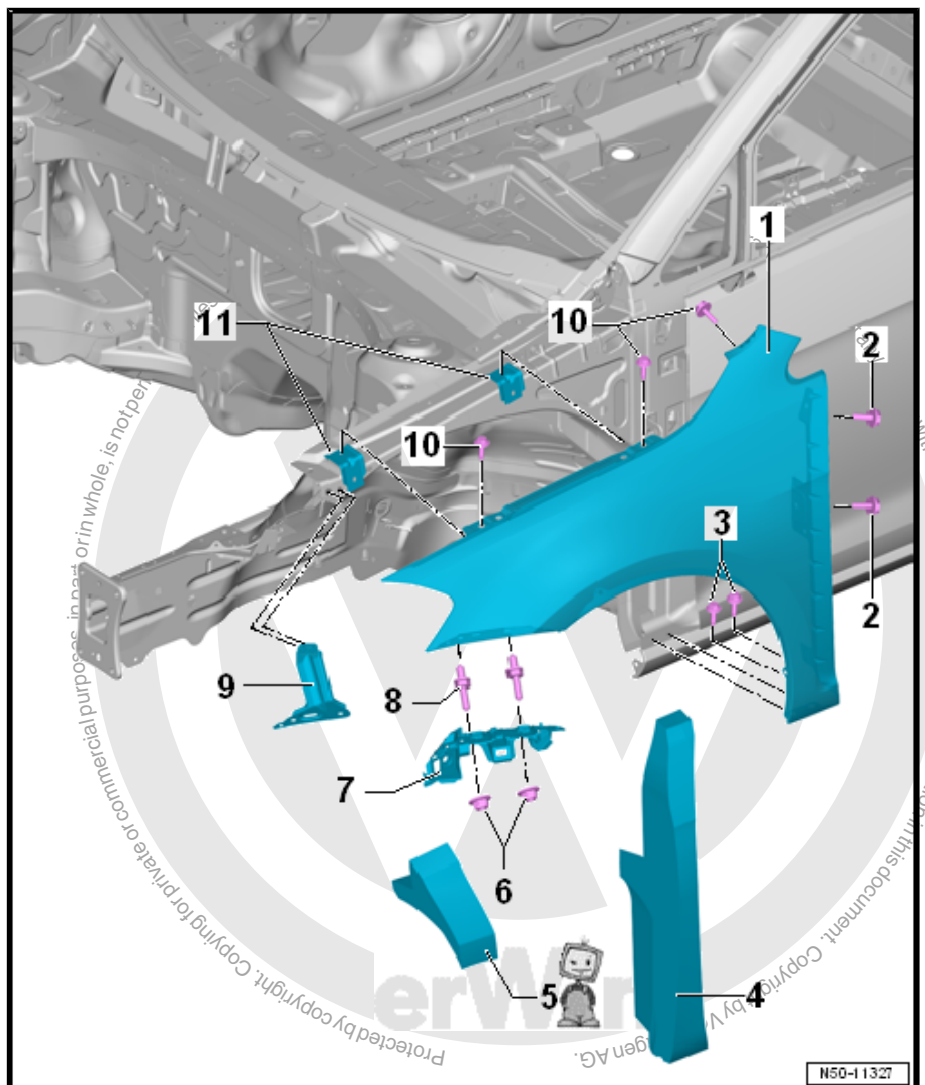
7 - Guide

- ☐ Removing:
- ☐ Remove the front bumper cover. Refer to
⇒ ["1.4 Bumper Cover, Removing and Installing", page 248](#).
- ☐ Remove the hex nut -6-.

- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

8 - Double Bolt

- ☐ 6.0 Nm
- ☐ Quantity 2; fender brace



N50-11327



9 - Fender Brace

- ❑ Removing and installing. Refer to ➤ [“2.4 Fender Brace, Removing and Installing”, page 17](#) .

10 - Bolt

- ❑ 6.0 Nm
- ❑ Fender connecting piece, quantity: 3

11 - Deformation Element

- ❑ Front and rear. Refer to ➤ [“2.2 Overview - Deformation Element”, page 14](#) .

2.2 Overview - Deformation Element

1 - Front Deformation Element

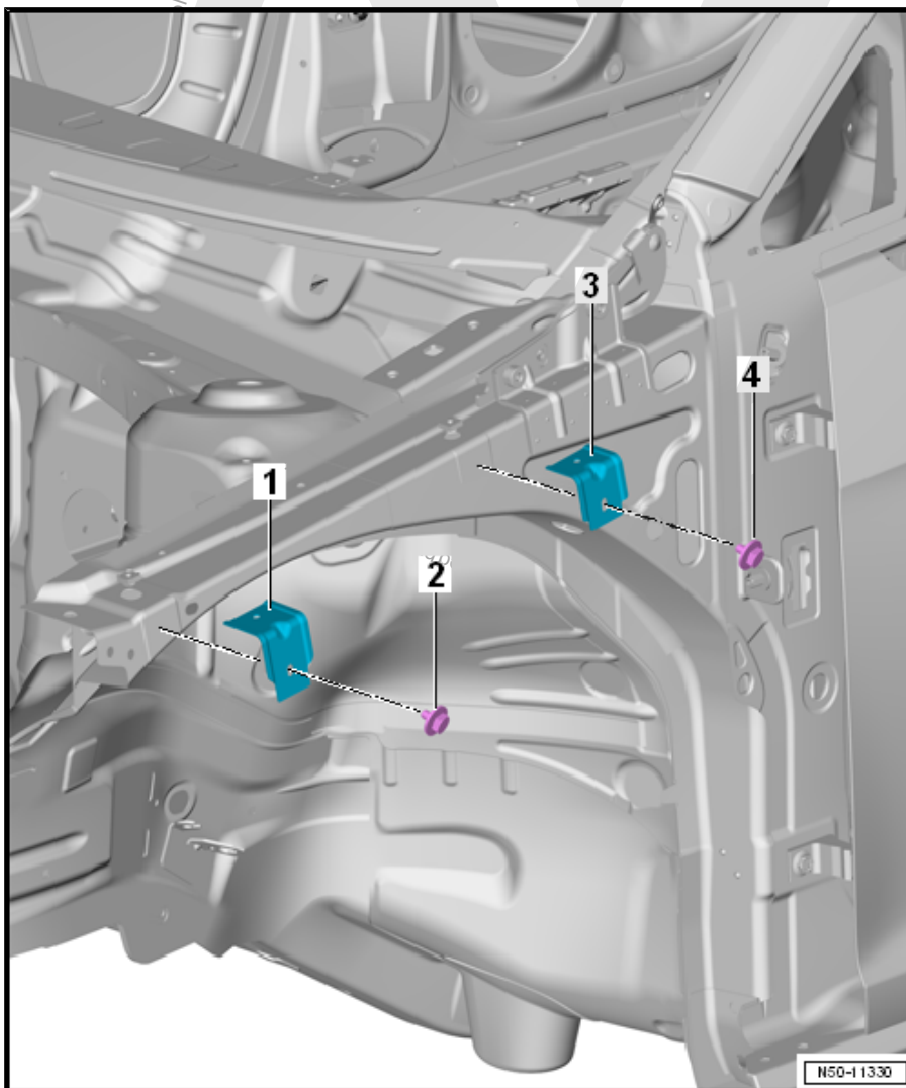
2 - Bolt

- ❑ 6.0 Nm

3 - Rear Deformation Element

4 - Bolt

- ❑ 6.0 Nm



2.3 Fender, Removing and Installing

Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-

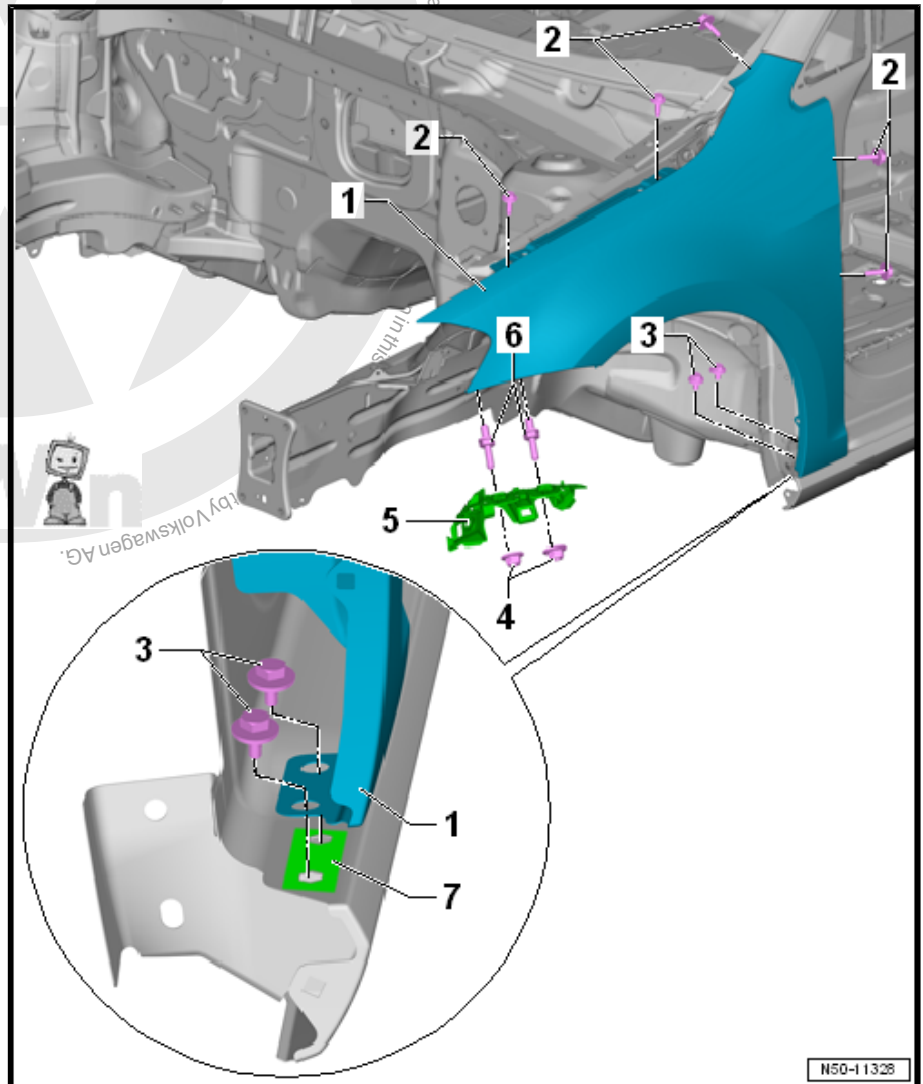


Removing



Note

The following describes removing and installing the left fender. Removing and installing the right fender is identical.



- Remove the front wheel housing liner. Refer to
⇒ ["7.3 Front Wheel Housing Liner, Removing and Installing", page 382](#).
- Remove the front bumper cover. Refer to
⇒ ["1.4 Bumper Cover, Removing and Installing", page 248](#).
- Remove the headlamps. Refer to ⇒ Electrical Equipment;
Rep. Gr. 94 ; Headlamp; Headlamp, Removing and Installing.
- Remove the left plenum chamber cover. Refer to
⇒ ["3.4 Plenum Chamber Cover, Removing and Installing", page 22](#).
- Remove the drip rail. Refer to
⇒ ["3.4 Drip Rail, Removing and Installing", page 336](#).
- Remove the hex nut -4- and guide -5-.



- Fender noise insulation. Refer to -item 5-
⇒ [Item 5 \(page 13\)](#) .
- Remove the brace noise insulation. Refer to -item 4-
⇒ [Item 4 \(page 13\)](#) .
- Remove the double bolt -6-.
- Remove the bolts -2- and -3-.
- Remove the fender -1-.



Note

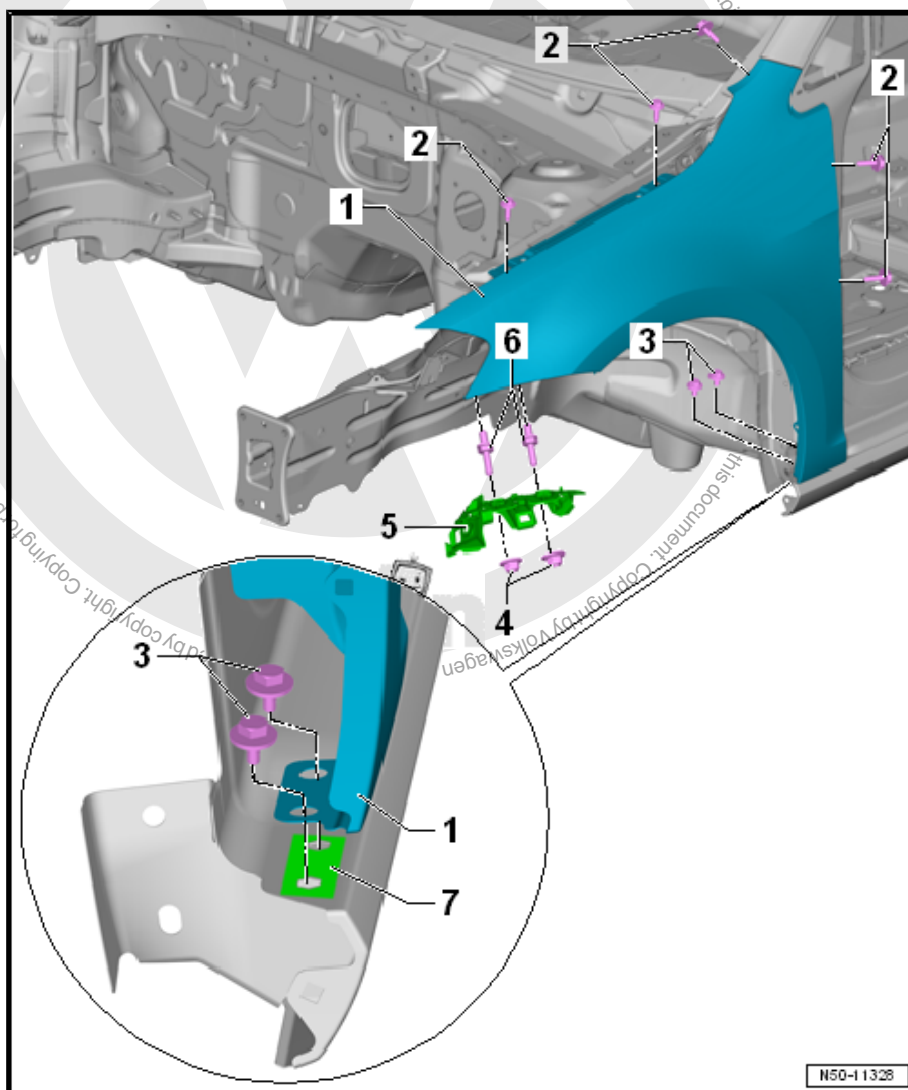
The Zinc Spacer - AKL 381 035 50- -7- (if present) will be damaged during the removal.

Installing



Note

Install the fender -1- so that it is free of tension.



Install in reverse order of removal. Note the following:



- With the fender brace loosened align the fender free of tension. Refer to
⇒ ["2.4 Fender Brace, Removing and Installing", page 17](#) .
- Insert Zinc Spacer - AKL 381 035 50- -7- between the fender and the sill panel.
- Pay attention to the parallel alignment and the gap dimensions. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions.

Tightening Specifications

2.4 Fender Brace, Removing and Installing

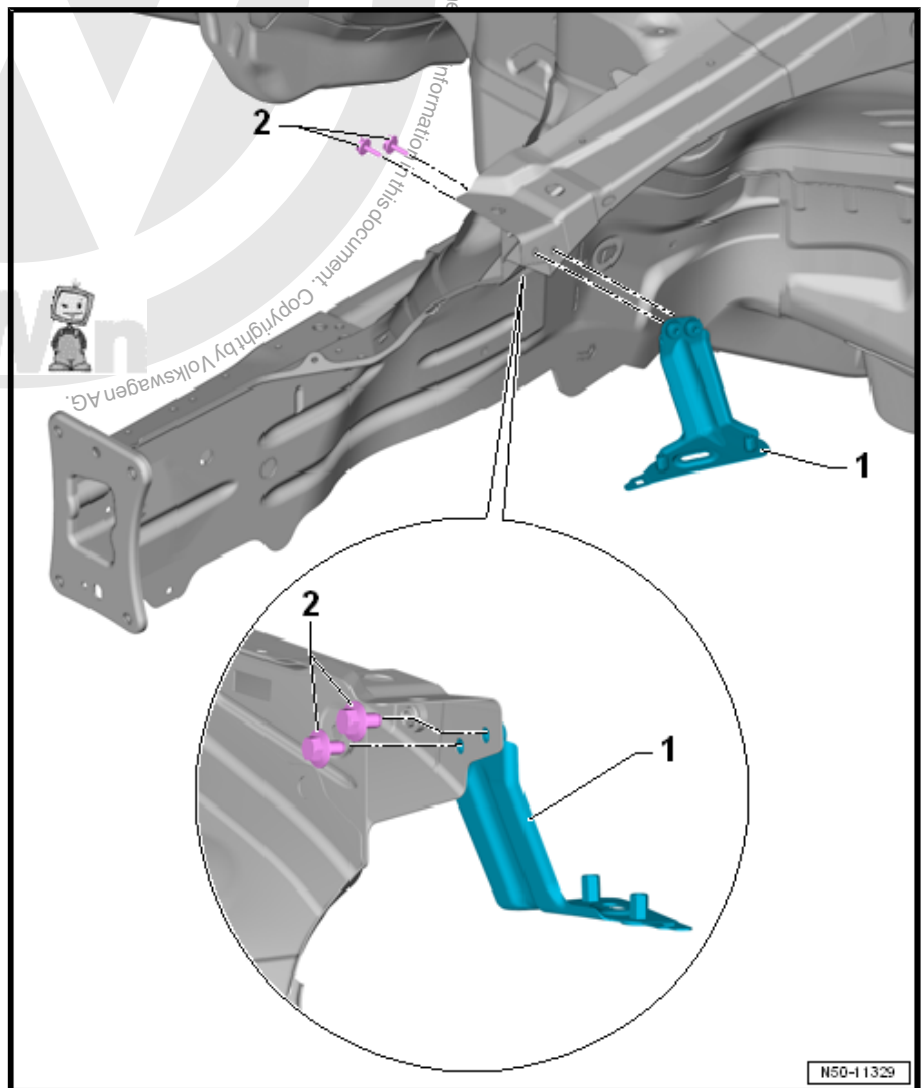
Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

The following describes removing and installing the left fender brace. Removing and installing the right fender brace is identical.





Removing

- Remove the front bumper cover. Refer to
⇒ [“1.4 Bumper Cover, Removing and Installing”, page 248](#) .
- Remove the headlamps. Refer to ⇒ Electrical Equipment;
Rep. Gr. 94 ; Headlamp; Headlamp, Removing and Installing .
- Remove the guide from the front bumper cover. Refer to
-item 7- ⇒ [Item 7 \(page 13\)](#) .
- Remove the double bolt. Refer to -item 8-
⇒ [Item 8 \(page 13\)](#) .
- Remove the bolts -2- and the fender brace -1-.

Installing

Install in reverse order of removal. Note the following:

- Align the fender brace and the fender to the hood and bumper.
Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .

Tightening Specifications

Component	Tightening Specifications
Fender Brace	6.0 Nm



3 Bulkhead

⇒ [“3.1 Overview - Bulkhead”, page 19](#)

⇒ [“3.2 Overview - Plenum Chamber Cover”, page 20](#)

⇒ [“3.3 Bulkhead, Removing and Installing”, page 20](#)

⇒ [“3.4 Plenum Chamber Cover, Removing and Installing”, page 22](#)

3.1 Overview - Bulkhead

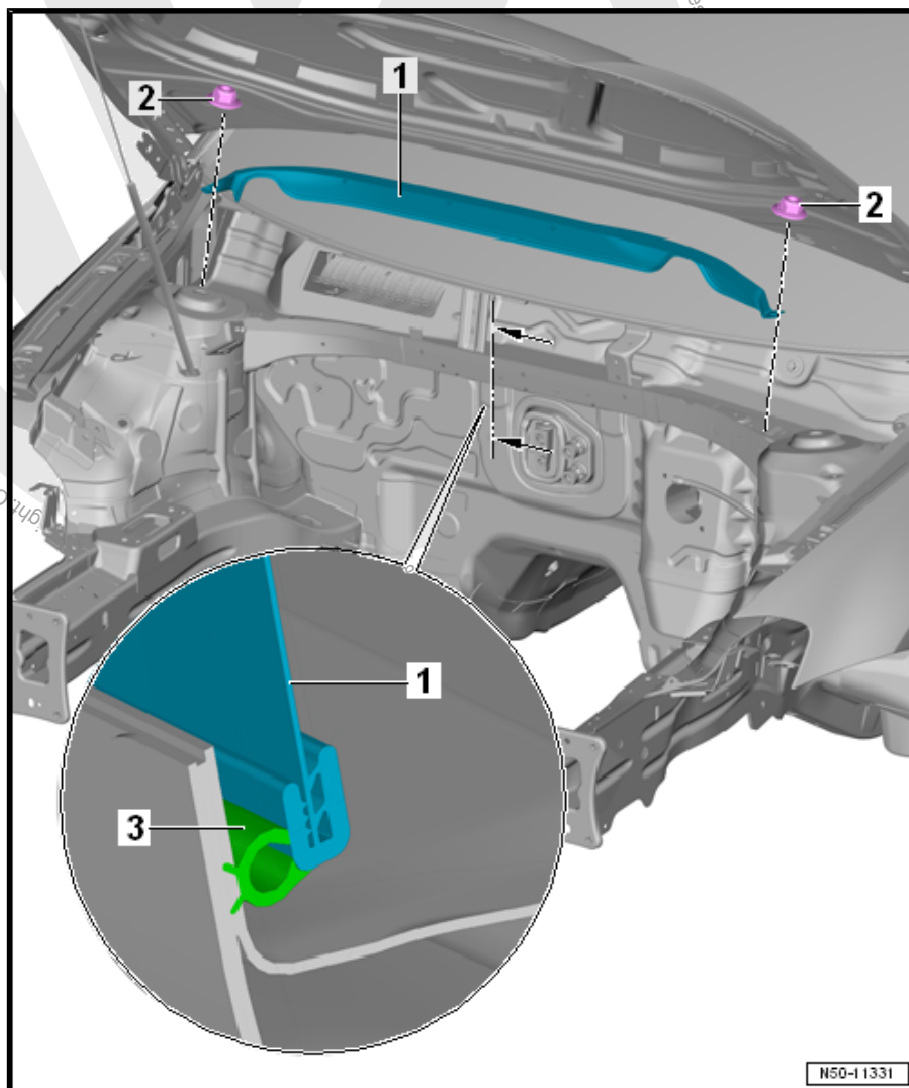
1 - Bulkhead

- ❑ Removing and installing. Refer to
⇒ [“3.3 Bulkhead, Removing and Installing”, page 20](#).

2 - Hex Nut

- ❑ 8.0 Nm
- ❑ Quantity: 2

3 - Seal, Bulkhead





3.2 Overview - Plenum Chamber Cover

1 - Plenum Chamber Cover

- ❑ Right side
- ❑ Removing and installing. Refer to
⇒ ["3.4 Plenum Chamber Cover, Removing and Installing", page 22](#) .

2 - Plenum Chamber Cover

- ❑ Left side
- ❑ Removing and installing. Refer to
⇒ ["3.4 Plenum Chamber Cover, Removing and Installing", page 22](#) .

3 - Clip

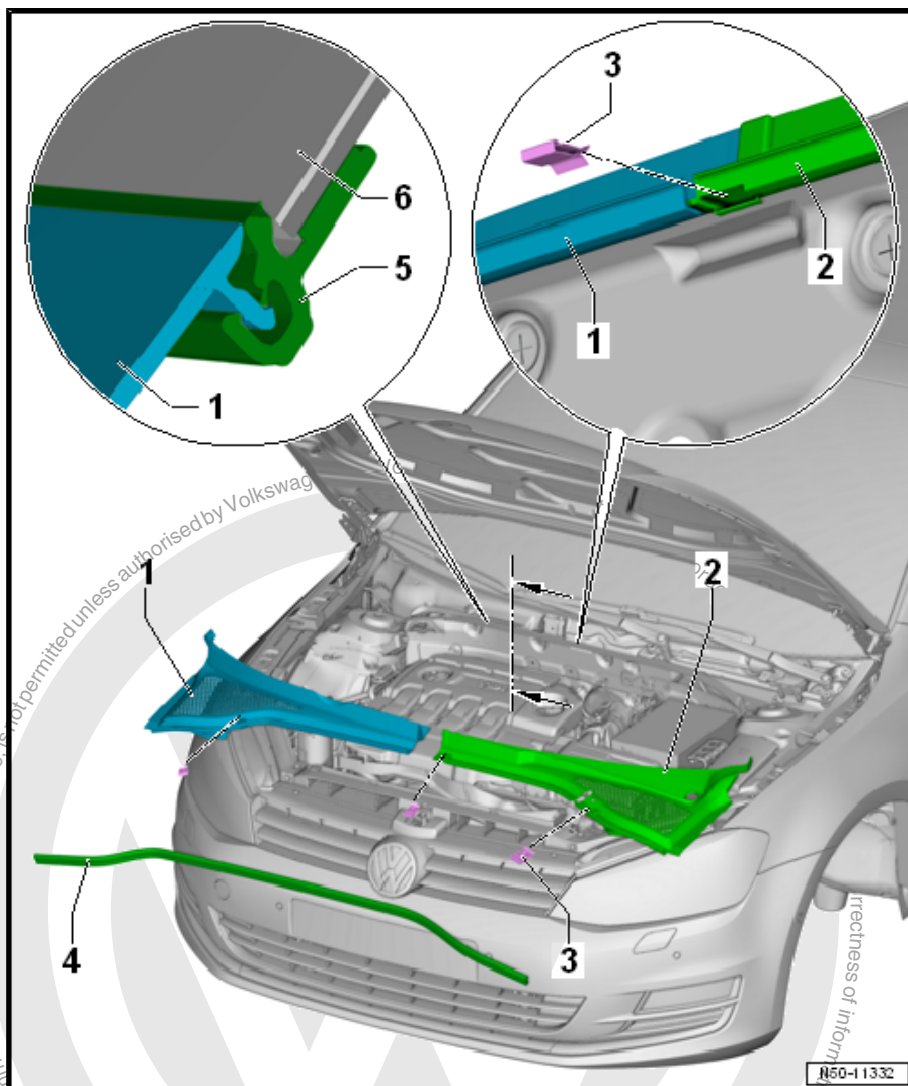
- ❑ Quantity: 3

4 - Seal

5 - Retainer

- ❑ Part of the windshield

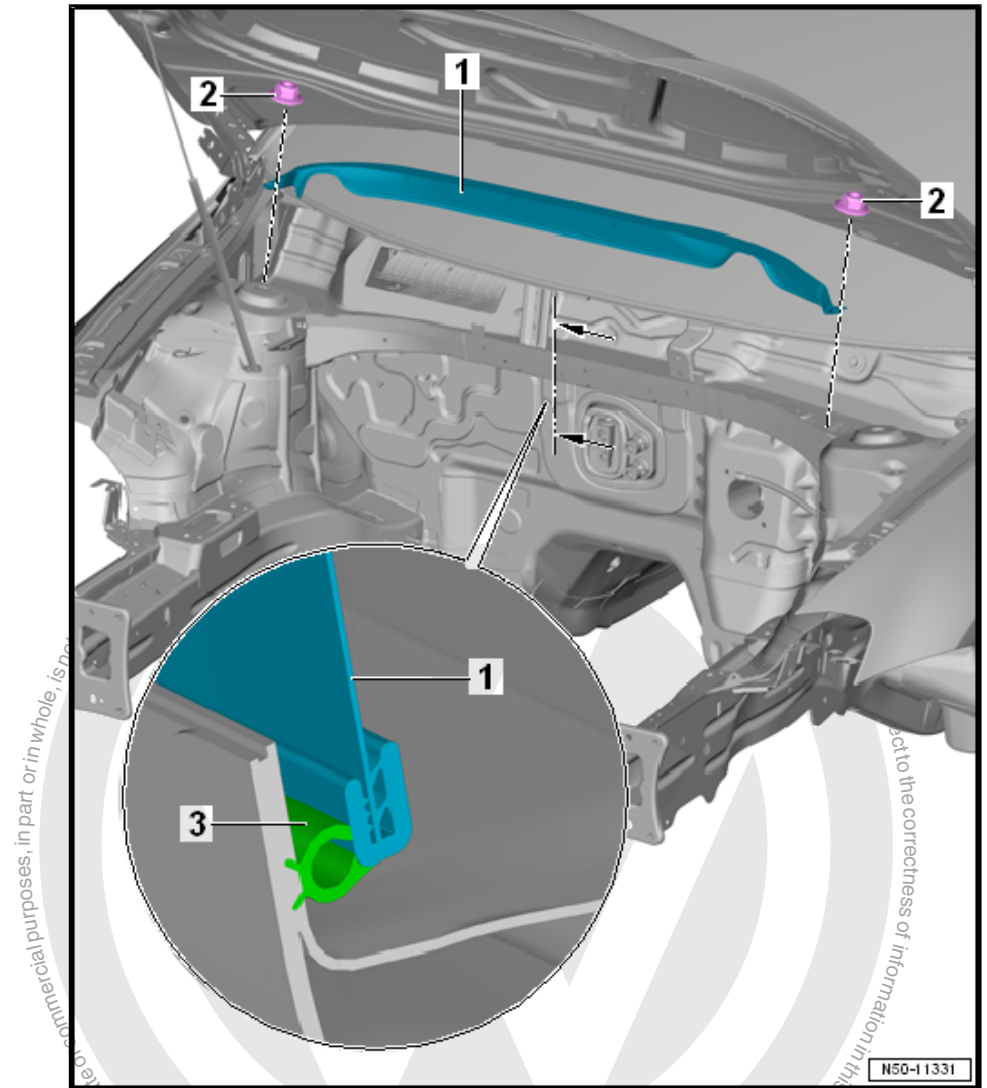
6 - Windshield



3.3 Bulkhead, Removing and Installing

Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Removing

- Remove the plenum chamber cover. Refer to [⇒ "3.2 Overview - Plenum Chamber Cover" page 20](#).
- Remove the hex nut -2- and bulkhead -1-.

Installing

Install in reverse order of removal. Note the following:

Tightening Specifications

Hex nut. Refer to -item 2- [⇒ Item 2 \(page 19\)](#)



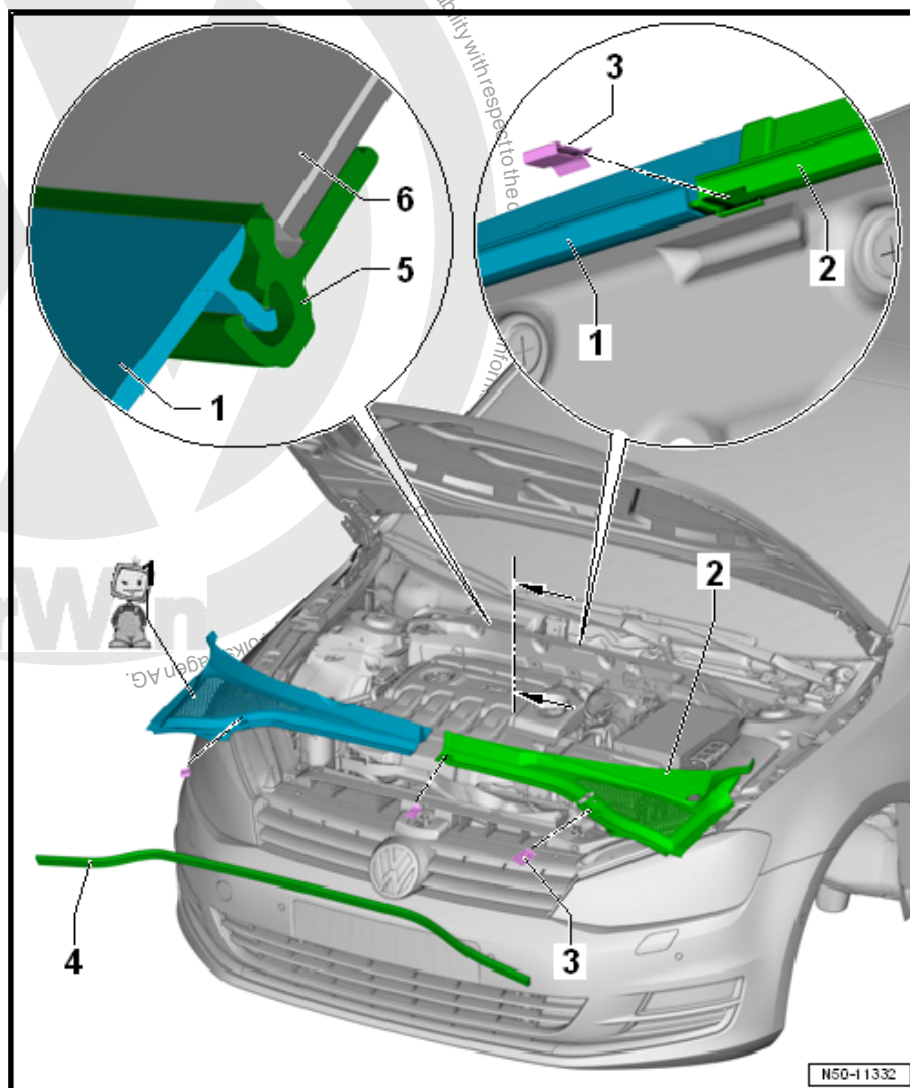
3.4 Plenum Chamber Cover, Removing and Installing

Removing



Note

Removing and installing the plenum chamber cover may slightly differ depending on the model.



- Remove the wiper arms. Refer to ⇒ Electrical Equipment; Rep. Gr. 92 ; Windshield Wiper System; Windshield Wiper Arms, Removing and Installing .
- Remove the seal -4- from the plenum chamber covers -1- and -2-.



Caution

The windshield -6- could break. The plenum chamber cover must not be pried off using a levering tool (screwdriver, wedge). The windshield will be damaged and could crack later.

- Unclip the clamp -3- (quantity 3).



- Starting in the center remove the plenum chamber covers -2- upward out of the binding profile -5-.
- Remove the plenum chamber covers -2- toward the front from the fender.
- Then starting in the center remove the plenum chamber covers -1- upward out of the binding profile -5-.
- Remove the plenum chamber covers -1- toward the front from the fender.

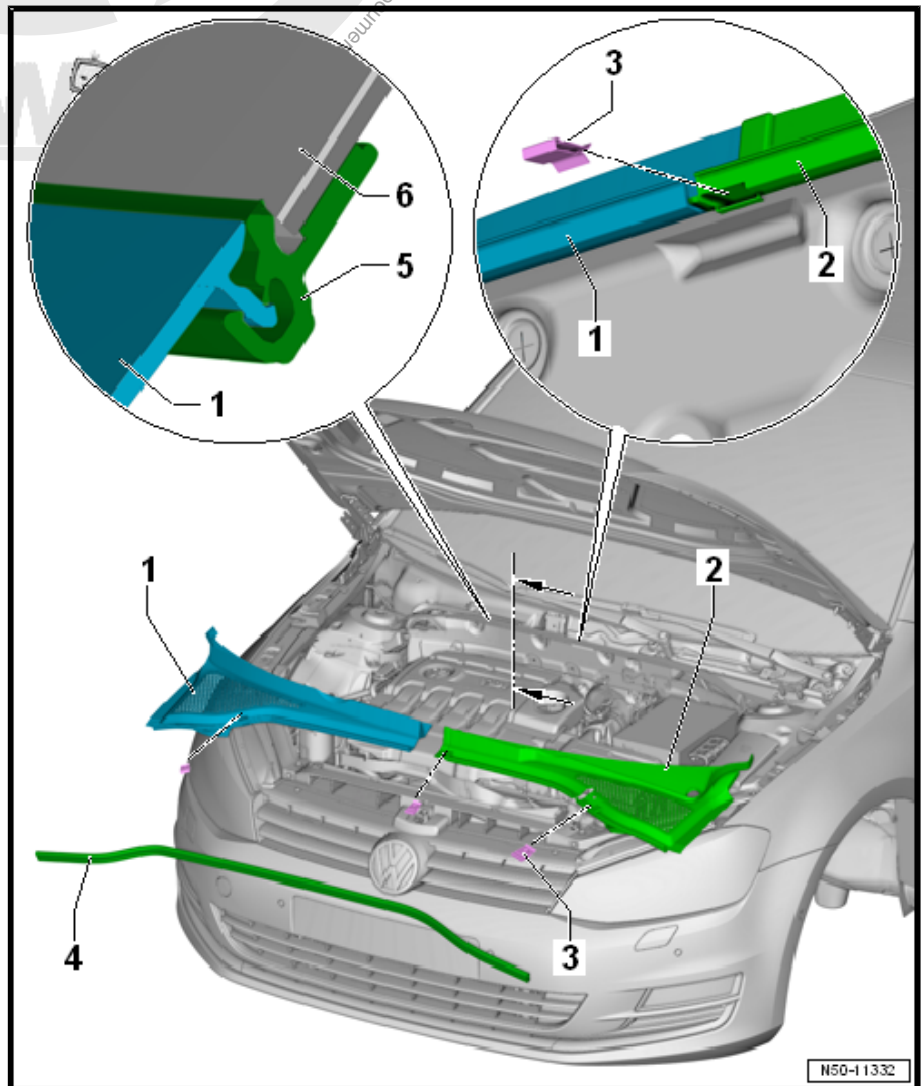
Installing



Caution

The windshield -6- could break.

Using a hammer to install the plenum chamber cover into the retainer on the windshield can cause the windshield to crack.





Note

- ◆ *New windshields have an insert in the retainer. Remove the insert before installing the plenum chamber cover.*
- ◆ *Press the plenum chamber cover into the retainer lightly by hand. Do not strike it or press on it with a tool.*
- Spray the retainer -5- with soapy water to make it easier to install the plenum chamber covers -1- and -2-.
- Push the plenum chamber covers -1- in the fender.
- Place the plenum chamber covers -1- on the binding profile -5-. With a light push, beginning from the outside push in the binding profile -5-.
- Push the plenum chamber covers -2- in the fender.
- Place the plenum chamber covers -2- on the binding profile -5-. With a light push, beginning from the outside push in the binding profile -5-.
- Clip in the clamp -3- (quantity 3).
- Place the seal -4- on the plenum chamber covers -1- and -2-.
- Install the wiper arms. Refer to ➤ Electrical Equipment; Rep. Gr. 92 ; Windshield Wiper System; Windshield Wiper Arms, Removing and Installing .





4 Special Tools

Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm - VAG1331-

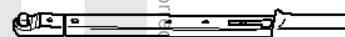
V.A.G 1331



W00-0427

- ◆ Torque Wrench 1332 40-200Nm - VAG1332-

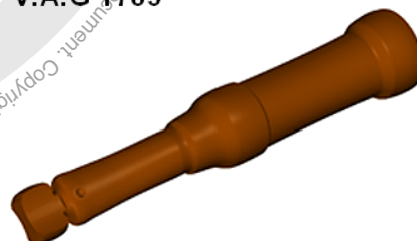
V.A.G 1332



W00-0428

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-

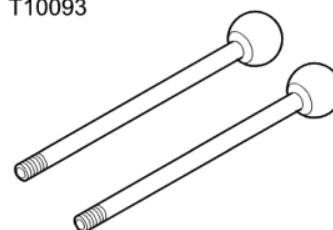
V.A.G 1783



W00-11189

- ◆ Guide Pins - T10093-

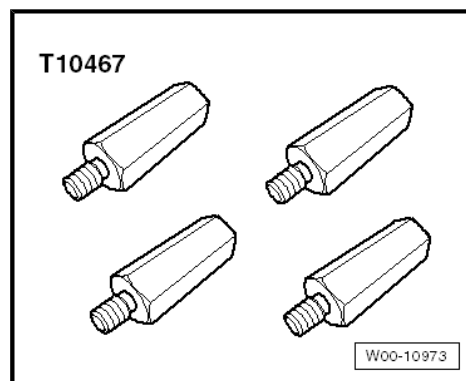
T10093



W00-1117



◆ Adapters For Service Position - T10467-





55 – Hood, Lids

1 Hood

- ⇒ [“1.1 Overview - Hood”, page 27](#)
- ⇒ [“1.2 Overview - Release Cable”, page 29](#)
- ⇒ [“1.3 Hood, Removing and Installing”, page 29](#)
- ⇒ [“1.4 Hood, Adjusting”, page 31](#)
- ⇒ [“1.5 Hood Latch, Removing and Installing”, page 36](#)
- ⇒ [“1.6 Hood Release Lever, Removing and Installing”, page 41](#)
- ⇒ [“1.7 Catch, Removing and Installing”, page 42](#)
- ⇒ [“1.8 Hinges, Removing and Installing”, page 44](#)
- ⇒ [“1.9 Insulation, Removing and Installing”, page 46](#)
- ⇒ [“1.10 Gas-Filled Strut, Removing and Installing”, page 49](#)
- ⇒ [“1.11 Gas-Filled Strut, Releasing Gas”, page 50](#)
- ⇒ [“1.12 Release Cable, Removing and Installing”, page 50](#)

1.1 Overview - Hood





1 - Hood

- ☐ Removing and installing. Refer to
⇒ ["1.3 Hood, Removing and Installing", page 29](#) .
- ☐ Adjusting. Refer to
⇒ ["1.4 Hood, Adjusting", page 31](#) .

2 - Adjusting Buffer

- ☐ Quantity: 2

3 - Insulation

- ☐ Removing and installing. Refer to
⇒ ["1.9 Insulation, Removing and Installing", page 46](#) .

4 - Center Seal

5 - Catch

- ☐ Removing and installing. Refer to
⇒ ["1.7 Catch, Removing and Installing", page 42](#) .

6 - Bolt

- ☐ 12 Nm
- ☐ Quantity: 2

7 - Side Seal

- ☐ Right and left

8 - Hinge

- ☐ Removing and installing. Refer to
⇒ ["1.8 Hinges, Removing and Installing", page 44](#) .

9 - Hex Nut

- ☐ For attaching the hood
- ☐ Quantity: 2 on each side
- ☐ 22 Nm

10 - Bolt

- ☐ 22 Nm
- ☐ For attaching the hinge
- ☐ Quantity: 2 on each side

11 - Protective Film

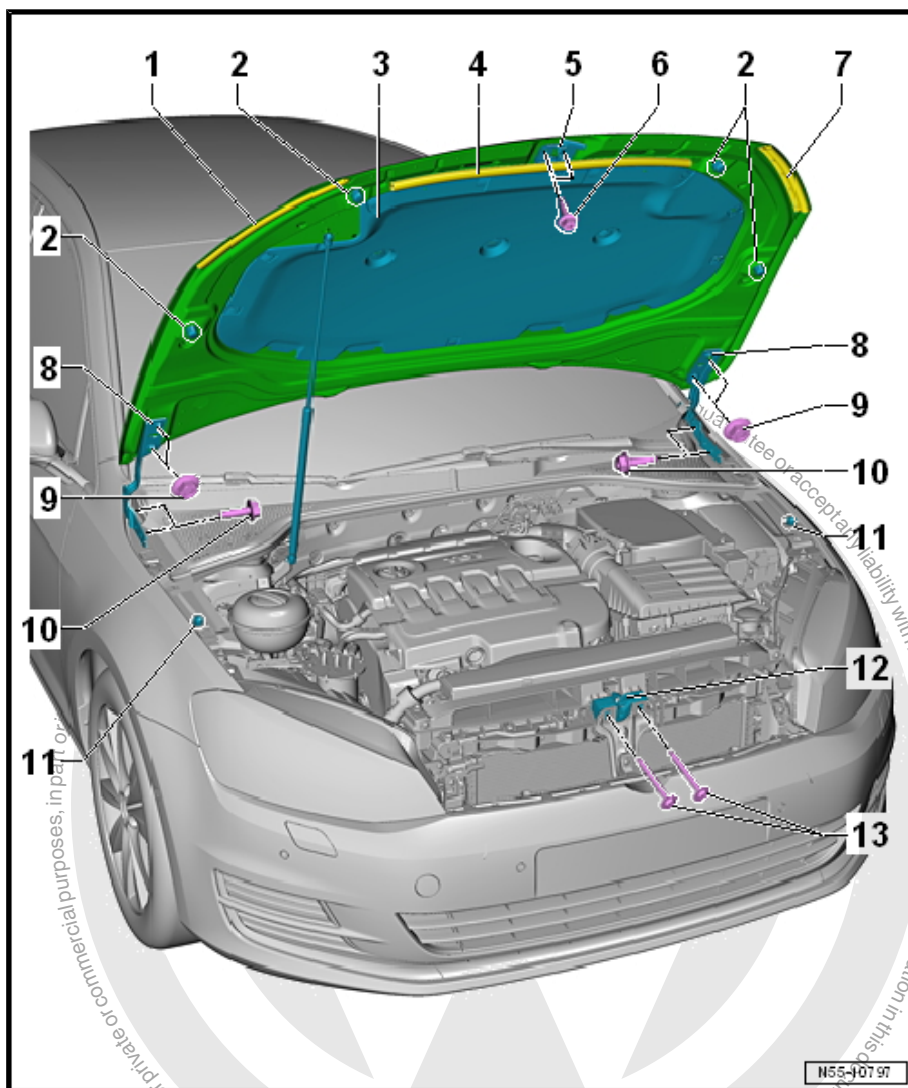
- ☐ For the adjusting buffer

12 - Lid Latch

- ☐ Removing and installing. Refer to ⇒ ["1.5 Hood Latch, Removing and Installing", page 36](#) .

13 - Bolt

- ☐ 12 Nm
- ☐ Quantity: 2





1.2 Overview - Release Cable

1 - Release Lever

- ❑ Removing and installing. Refer to
⇒ ["1.6 Hood Release Lever, Removing and Installing", page 41](#)

2 - Bolt

- ❑ 1.5 Nm
- ❑ Quantity: 2

3 - Mounting Bracket

4 - Expanding Nut

- ❑ Quantity: 2

5 - Release Cable

- ❑ From the bracket -3- to the coupling -7-

6 - Grommet

7 - Clutch

8 - Release Cable

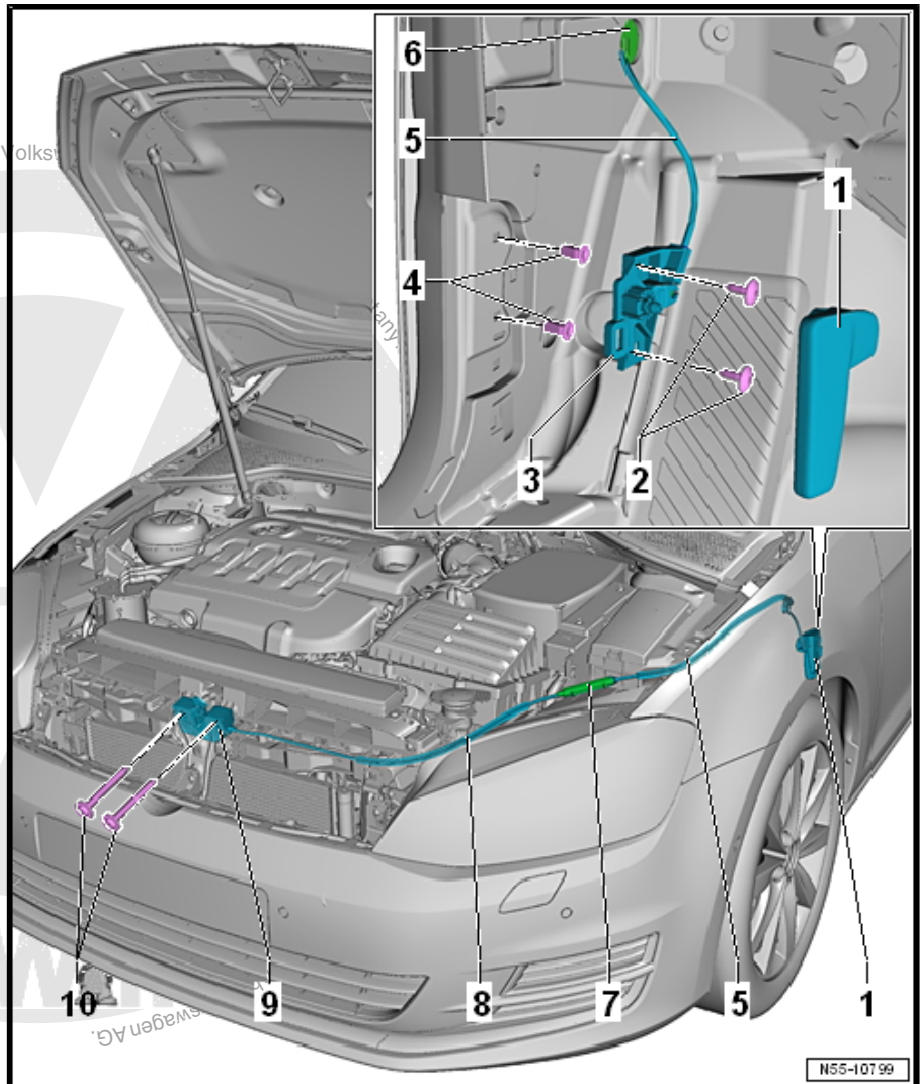
- ❑ From the clutch -7- to the hood latch -9-

9 - Hood Latch

- ❑ Removing and installing. Refer to
⇒ ["1.5 Hood Latch, Removing and Installing", page 36](#)

10 - Bolt

- ❑ 12 Nm
- ❑ Quantity: 2

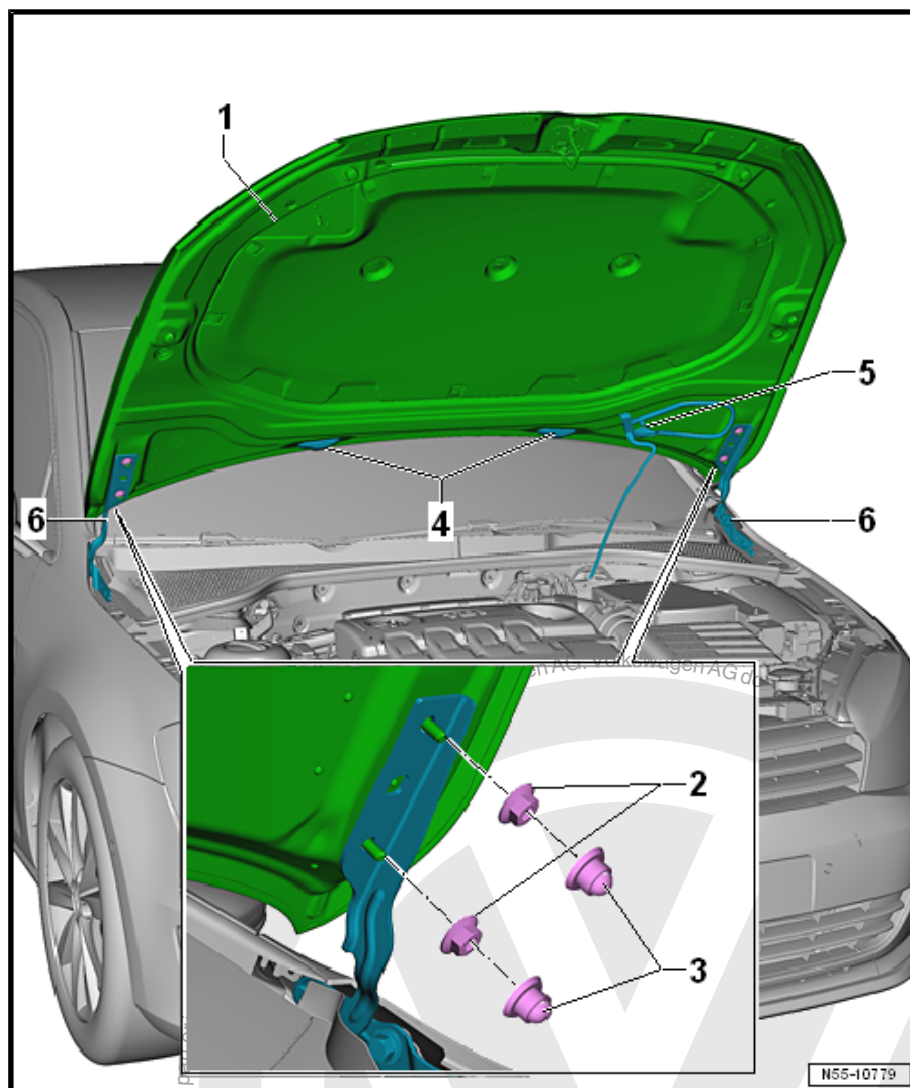


1.3 Hood, Removing and Installing

Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm - VAG1331-

Removing

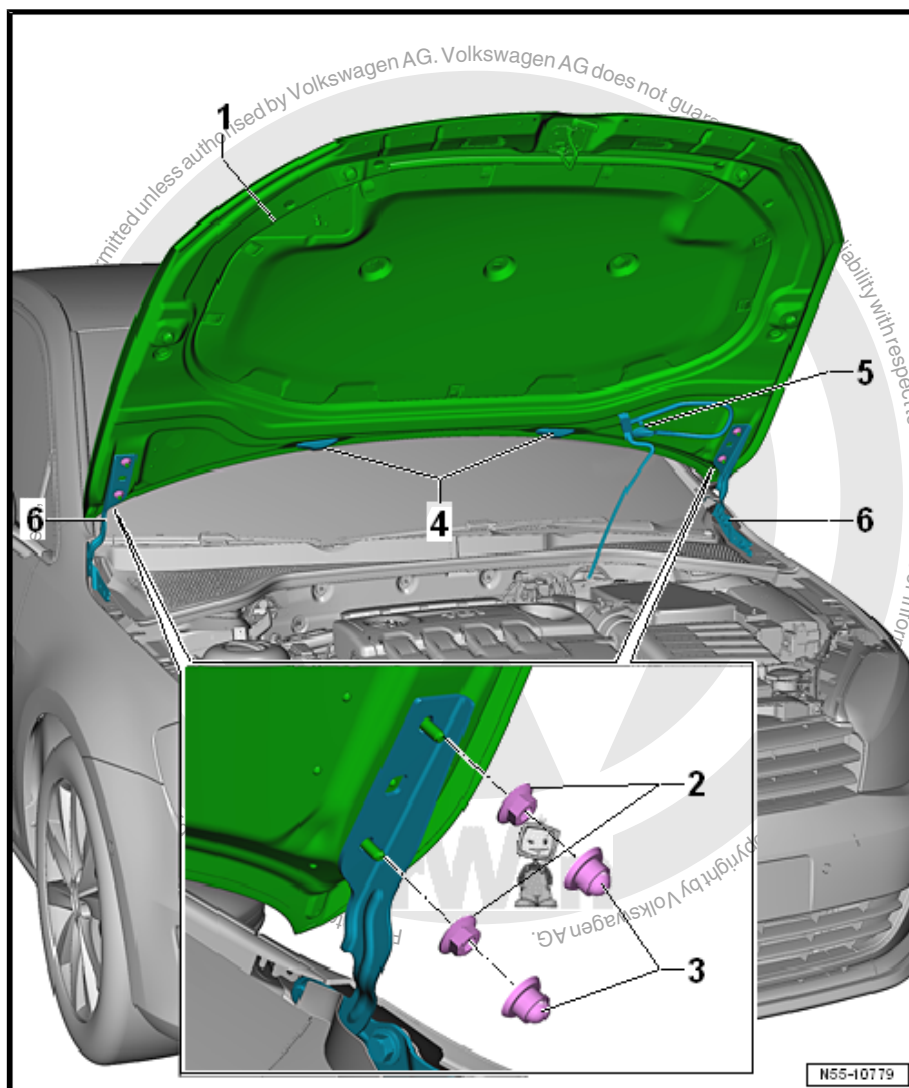


- Remove the spray nozzles -4-. Refer to ➤ Electrical Equipment; Rep. Gr. 92 ; Windshield Washer System; Spray Nozzles, Removing and Installing .
- Remove the washer fluid line -5- from the hood -1-.
- If equipped, remove the caps -3-.
- Loosen the left and right nuts -2- from the hinge -6- (do not remove the nuts).

A second technician is required for the rest of the removal procedure.

- Remove the gas-filled strut.
- Remove the hex nut -6- and the hood -1- from the hinges -2-.

Installing



Install the hood -1- in reverse order of removal.



Note

Route the washer fluid line -5- in one bow. If the washer fluid line is installed twisted, it will kink.

- Adjust the hood -1-. Refer to
⇒ ["1.4 Hood, Adjusting", page 31](#) .

Tightening Specifications

1.4 Hood, Adjusting

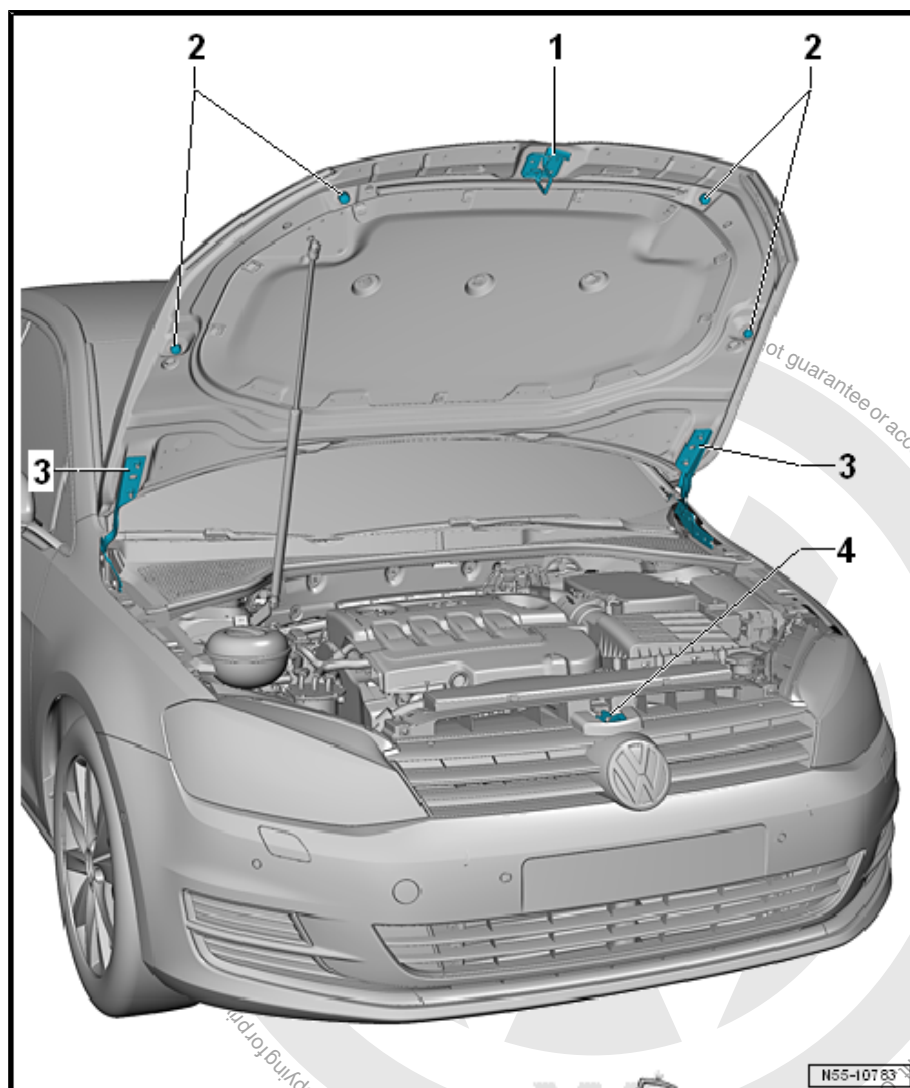
Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm - VAG1331-



Note

- ◆ The vehicle must be on the ground when adjusting the hood.
- ◆ The left and right buffers -2- are not meant for adjusting. They stabilize or cushion the hood.
- ◆ The hood is properly adjusted when there is an overall even gap dimension when closed. The hood cannot be positioned too far inward or outward. The contours must align.
- ◆ The hood must latch without much force into the hood latch.



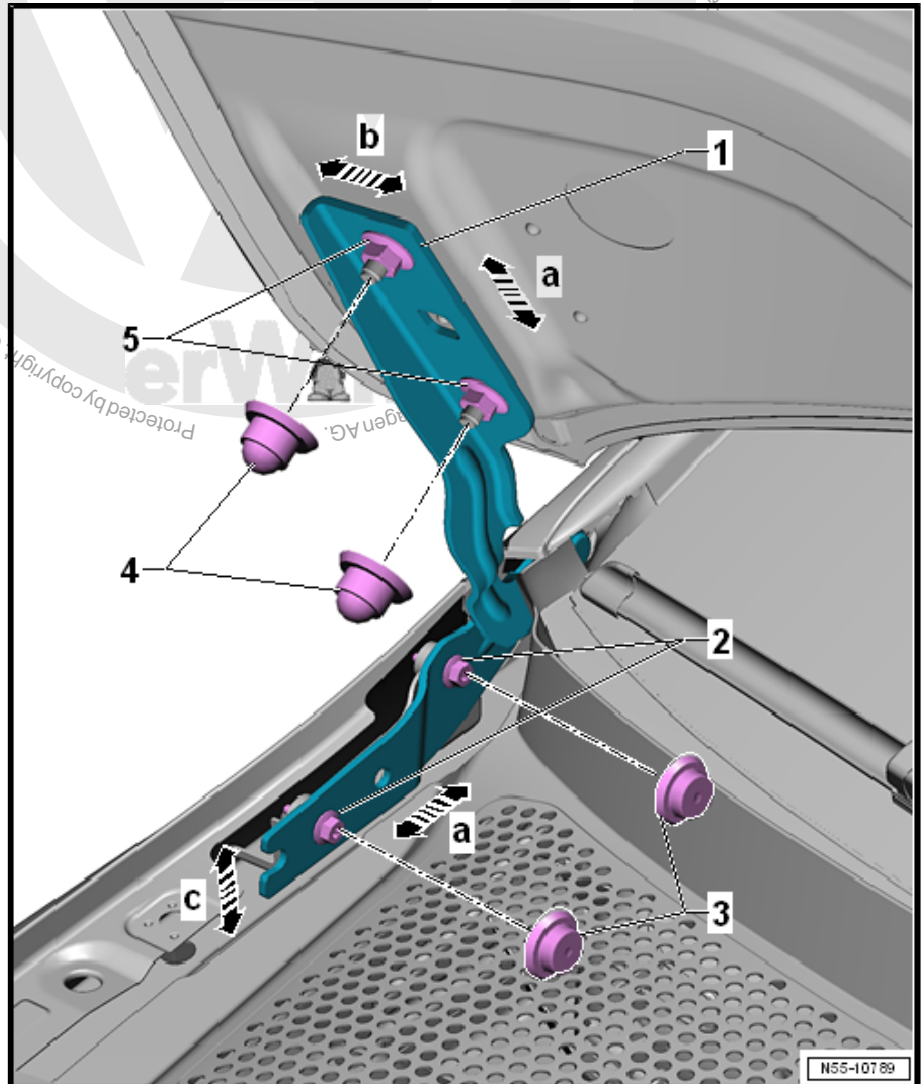
- Remove the hood catch -1-. Refer to [⇒ "1.7 Catch, Removing and Installing", page 42](#) .
- The height of the front of the hood can be adjusted in relation to the fenders using the adjusting buffers -4-. Refer to [⇒ "1.4 Hood, Adjusting", page 31](#) .
- Install and adjust the catch -1- after adjusting the hood. Refer to [⇒ page 34](#)

Tightening Specifications Hinges, Adjusting



Note

Do not remove the bolts -5-. Only loosen them.



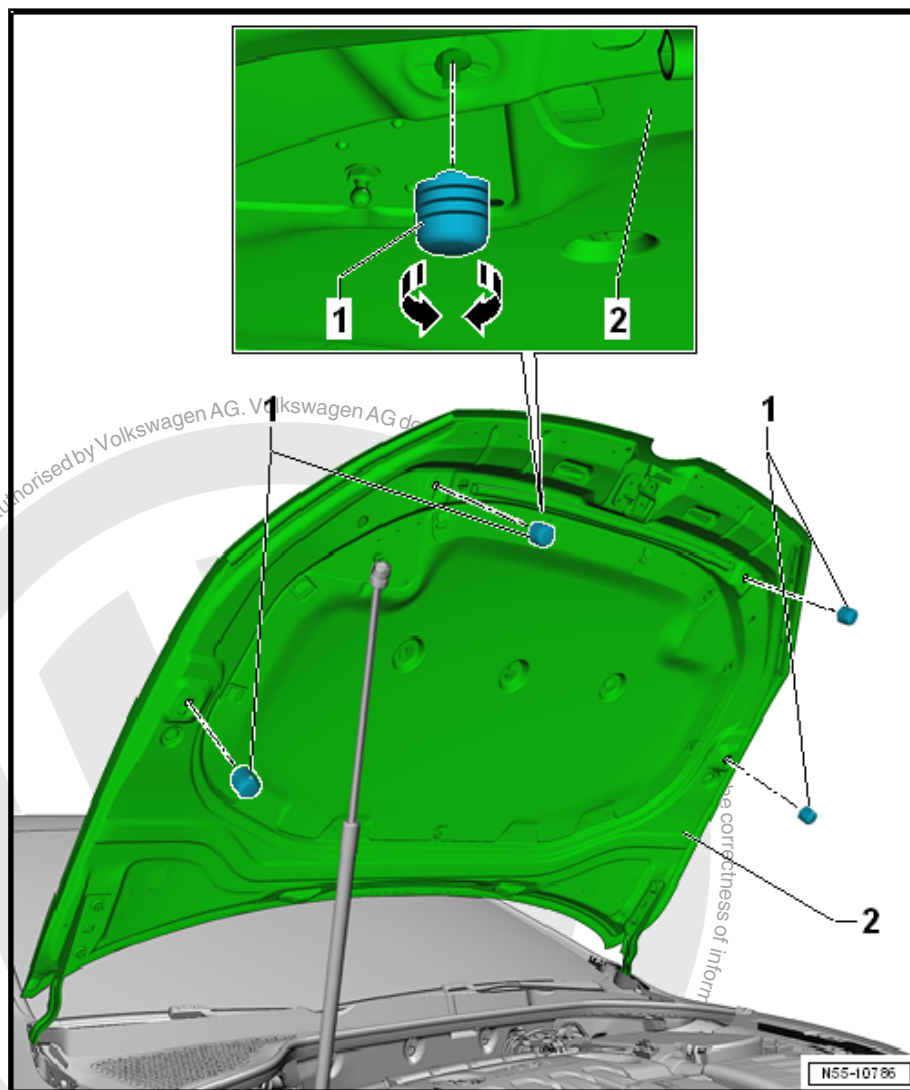
- If equipped, remove the caps -3 or 4-.
- By loosening left and right hex nuts -5- on the hood hinge -1- the hood can be adjusted laterally -b arrows- and in height -a arrows- between the fenders.
- By loosening left and right bolts -2- on the hood hinge -1- the hood can be adjusted in height -c arrows- and laterally -a arrows- between the fenders.
- Make sure the gap dimensions are even. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions
- Tightening specification of the hex nut -5- and the bolts -2-: 22 Nm



- After adjusting apply corrosion protection to the hood hinge -1-, the hex nuts -5- and the bolts -2-.
- If necessary adjust the adjusting buffers.

Tightening Specifications

Adjusting the adjusting buffer:

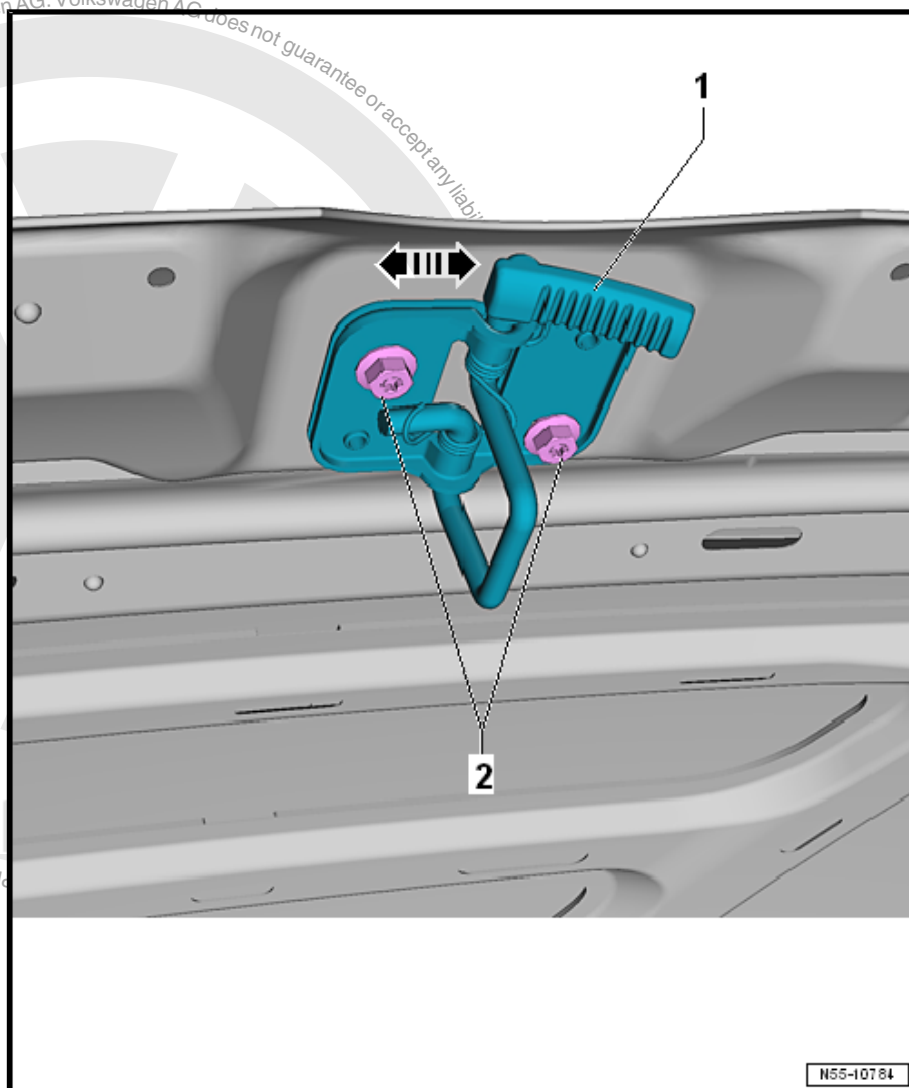


- Turn the adjusting buffer -1- -arrows- to adjust.
 - Install and adjust the hood catch after adjusting the hood -2-.
- Refer to ➤ [page 34](#) .

Catch, Adjusting

Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm - VAG1331-



- Loosen the bolts -2-.
- Adjust the hood catch -1- on the hood -2- sideways inside the oblong hole.

Tightening Specifications

Hood Latch, Adjusting

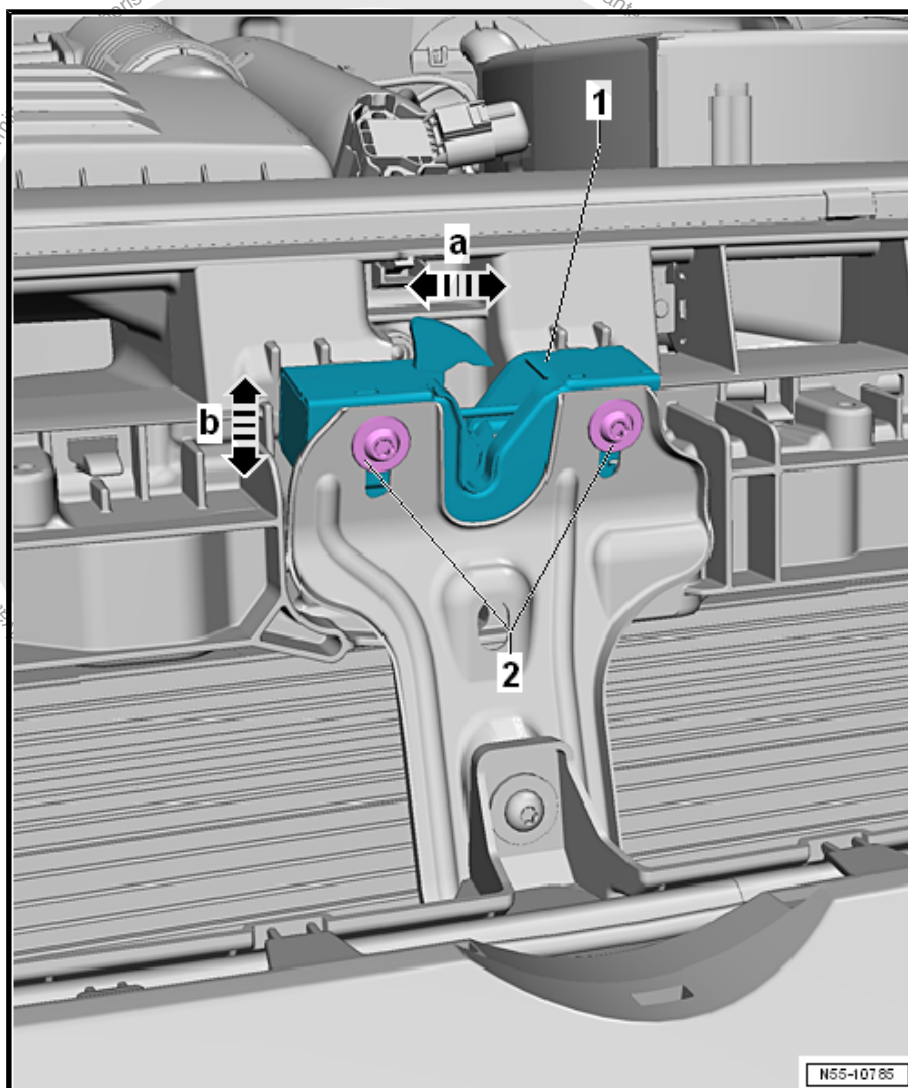
Special tools and workshop equipment required

- ◆ Gauge - Gap Adjustment - 3371-
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-



Note

Use new bolts to adjust the hood latch.



- If the bolts -2- are loosened, the hood latch -1- can be adjusted from side to side -arrow a- and in height -b arrows-. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .

Tightening Specifications

1.5 Hood Latch, Removing and Installing

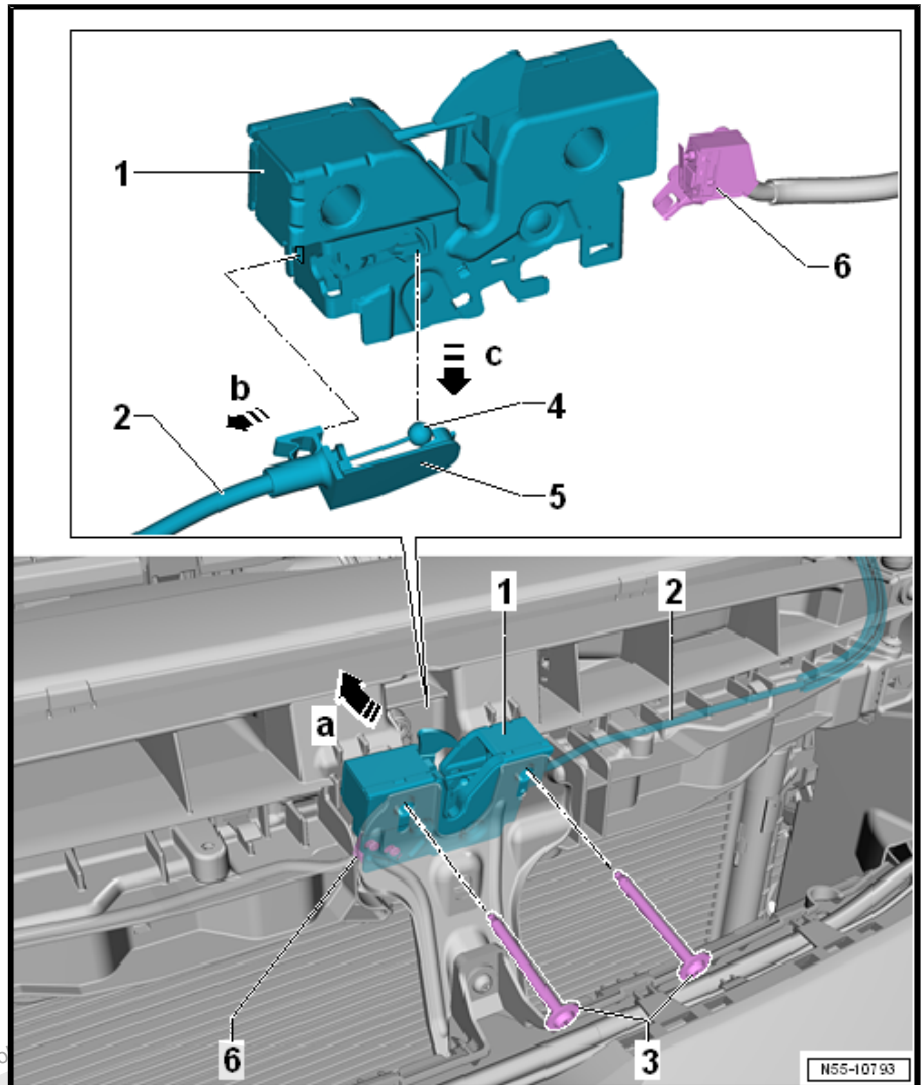
⇒ **“1.5.1 Hood Latch, Removing and Installing”, page 36**

1.5.1 Hood Latch, Removing and Installing

Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm - VAG1331-

Removing



- Open the hood.
- Remove the release cable from the bracket. Refer to ["1.12 Release Cable, Removing and Installing", page 50](#).
- Disconnect the connector for the hood contact switch.

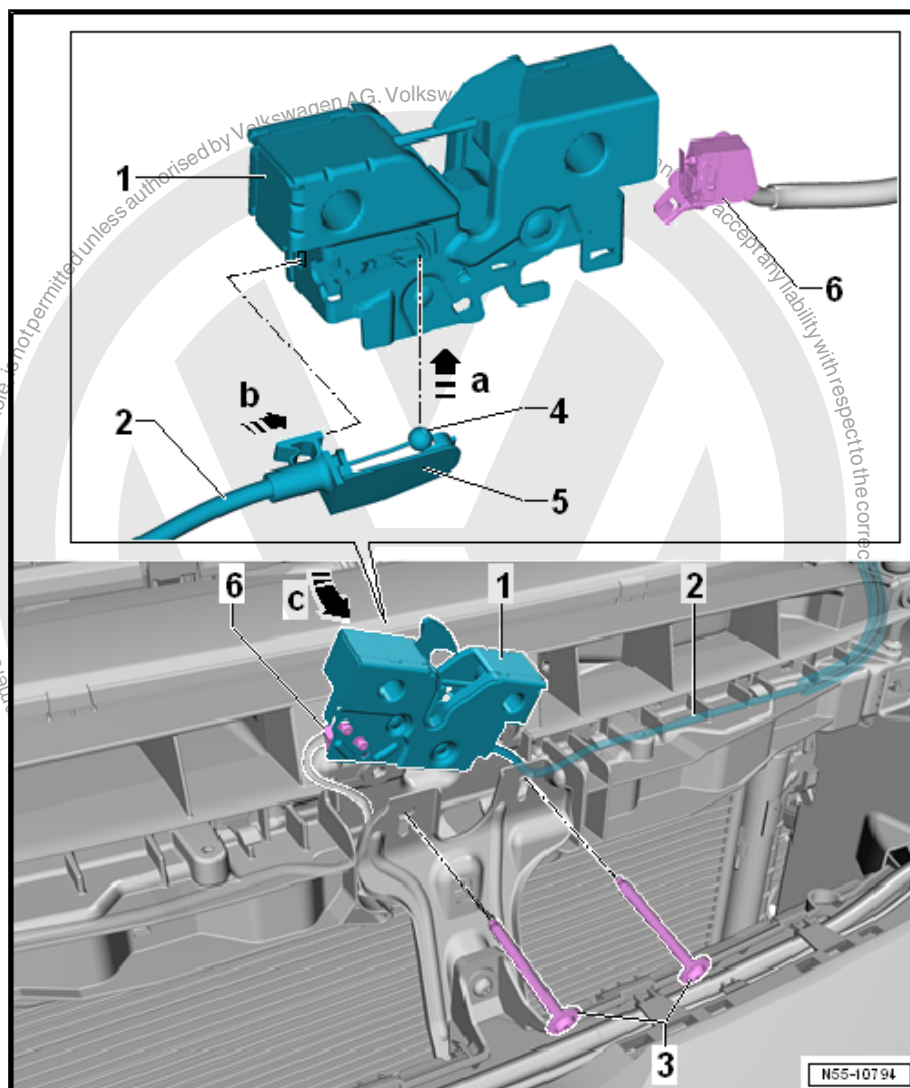


Note

Harness connector is secured near the right headlamp.

- Remove the bolts -3- from the lock carrier and the hood latch -1- -arrow a-.
- Unclip the bracket -5- from the latch.
- Slightly remove the bracket -5- from the latch -1- -arrow b- and disengage the cable -4- -arrow c-.
- Remove the microswitch -6- from the latch.

Installing



- Engage the cable -4- -arrow a- and bracket -5- in the latch -1- -arrow b-.
- Install the microswitch -6- in the latch.
- Install the hood latch -1- in the lock carrier -arrow c-.
- Install the bolts -3-.
- Connect the connector for the hood contact switch -6-.
- Install the release cable in the bracket. Refer to [⇒ "1.6 Hood Release Lever, Removing and Installing", page 41](#).
- Adjust the hood latch. Refer to [⇒ "1.4 Hood, Adjusting", page 31](#).
- Before closing the hood, make sure the hood release lever and the cable are working correctly.

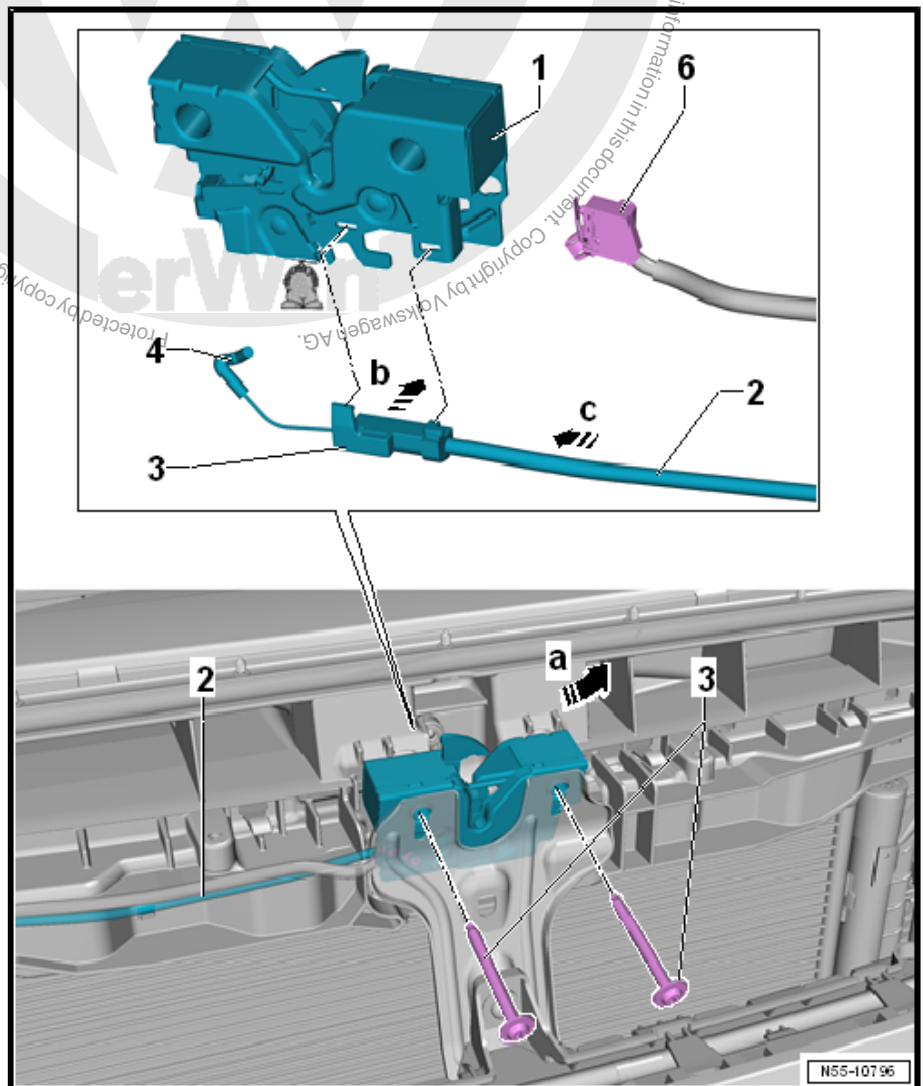
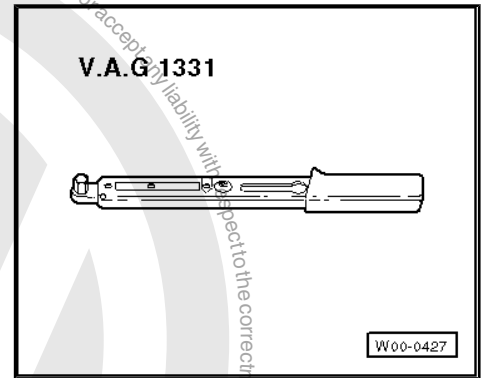
Tightening Specifications

1.5.2 Hood Latch, Removing and Installing, RHD

Special tools and workshop equipment required



- ◆ Torque Wrench 1331 5-50Nm - VAG1331-



- Open the hood.
- Remove the release cable from the bracket. Refer to
⇒ ["1.12 Release Cable, Removing and Installing",
page 50](#) .
- Disconnect the connector for the hood contact switch.

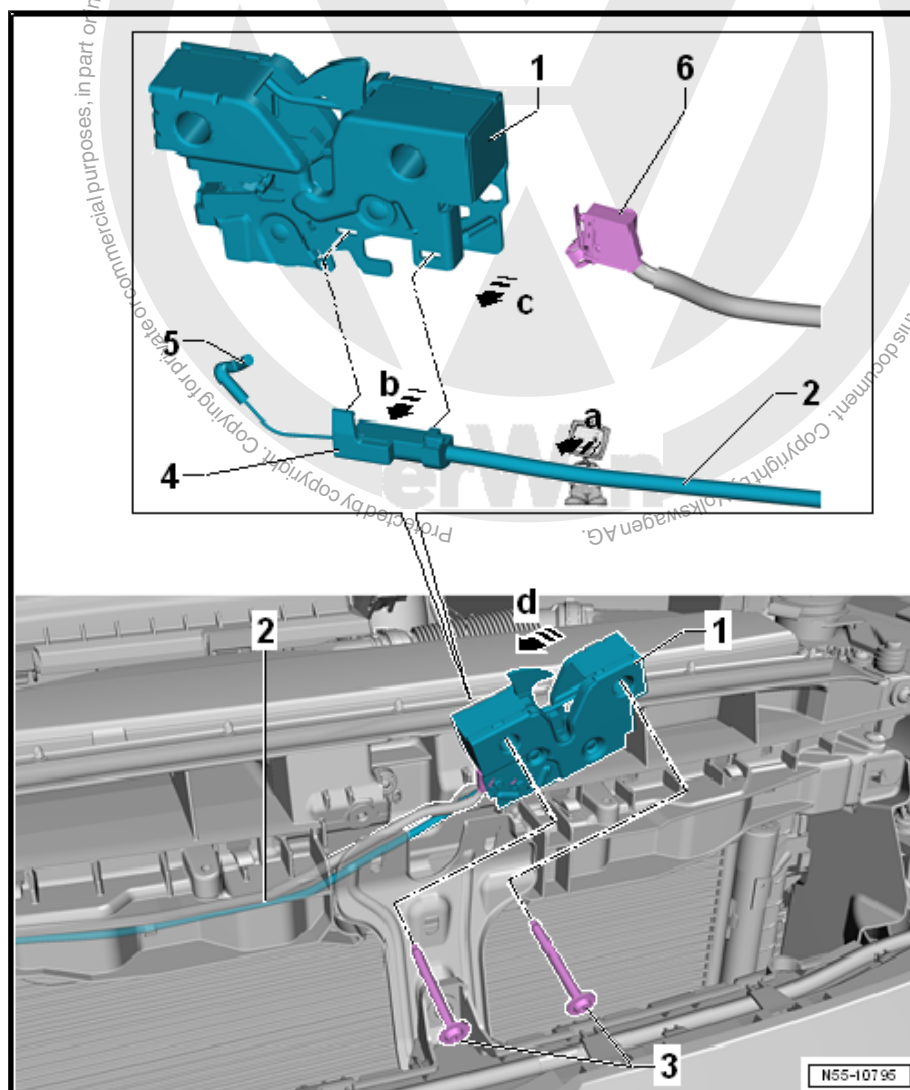


Note

Harness connector is secured near the right headlamp.

- Remove the bolts -3- from the lock carrier and the hood latch -1- -arrow a-.
- Unclip the bracket -5- from the latch.
- Slightly remove the bracket -5- from the latch -1- -arrow b- and disengage the cable -4- -arrow c-.
- Remove the microswitch -6- from the latch.

Installing



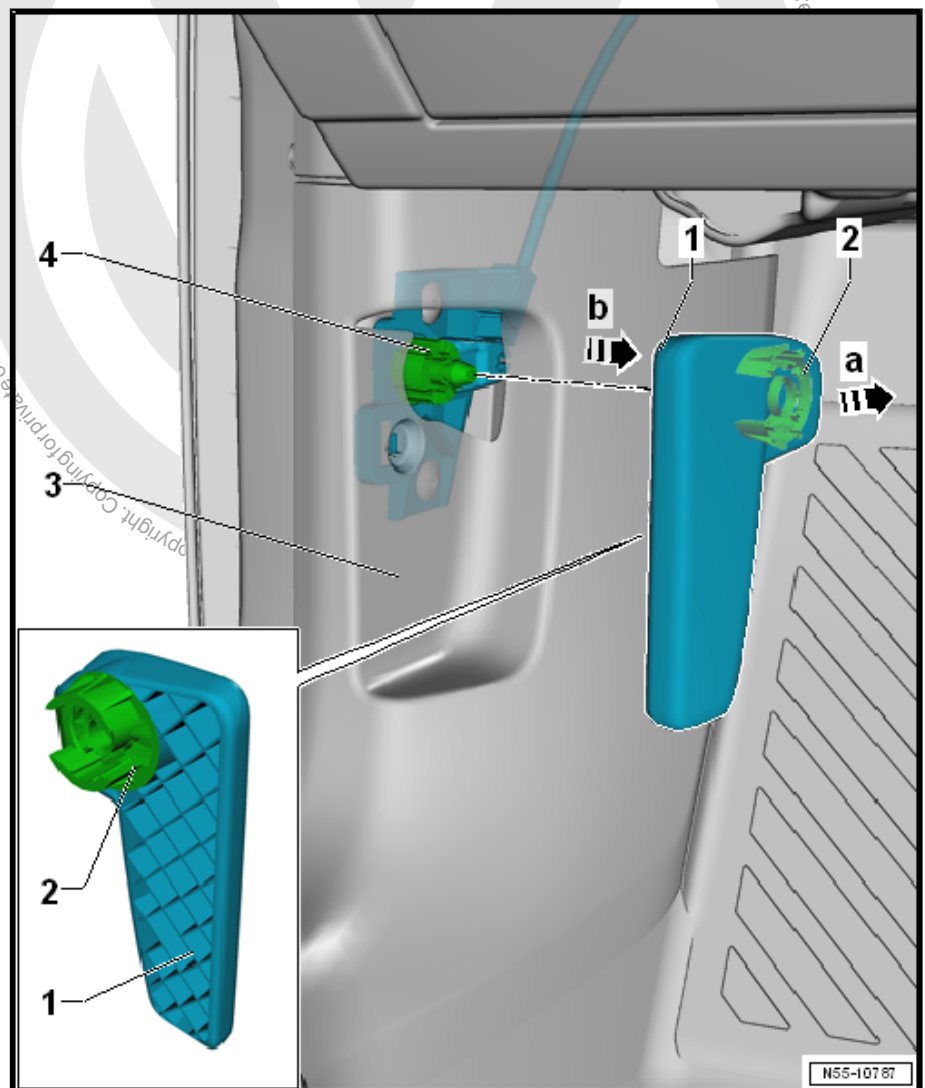
- Engage the cable -5- -arrow a- and bracket -4- in the latch -1- -arrow b-.
- Install the microswitch -6- in the latch -arrow c-.
- Install the hood latch -1- in the lock carrier -arrow d-.
- Install the bolts -3-.
- Connect the connector for the hood contact switch -6-.

- Install the release cable in the bracket. Refer to
⇒ [“1.6 Hood Release Lever, Removing and Installing”,
page 41](#) .
- Adjust the hood latch. Refer to
⇒ [“1.4 Hood, Adjusting”, page 31](#) .
- Before closing the hood, make sure the hood release lever and
the cable are working correctly.

Tightening Specifications

1.6 Hood Release Lever, Removing and Installing

Removing



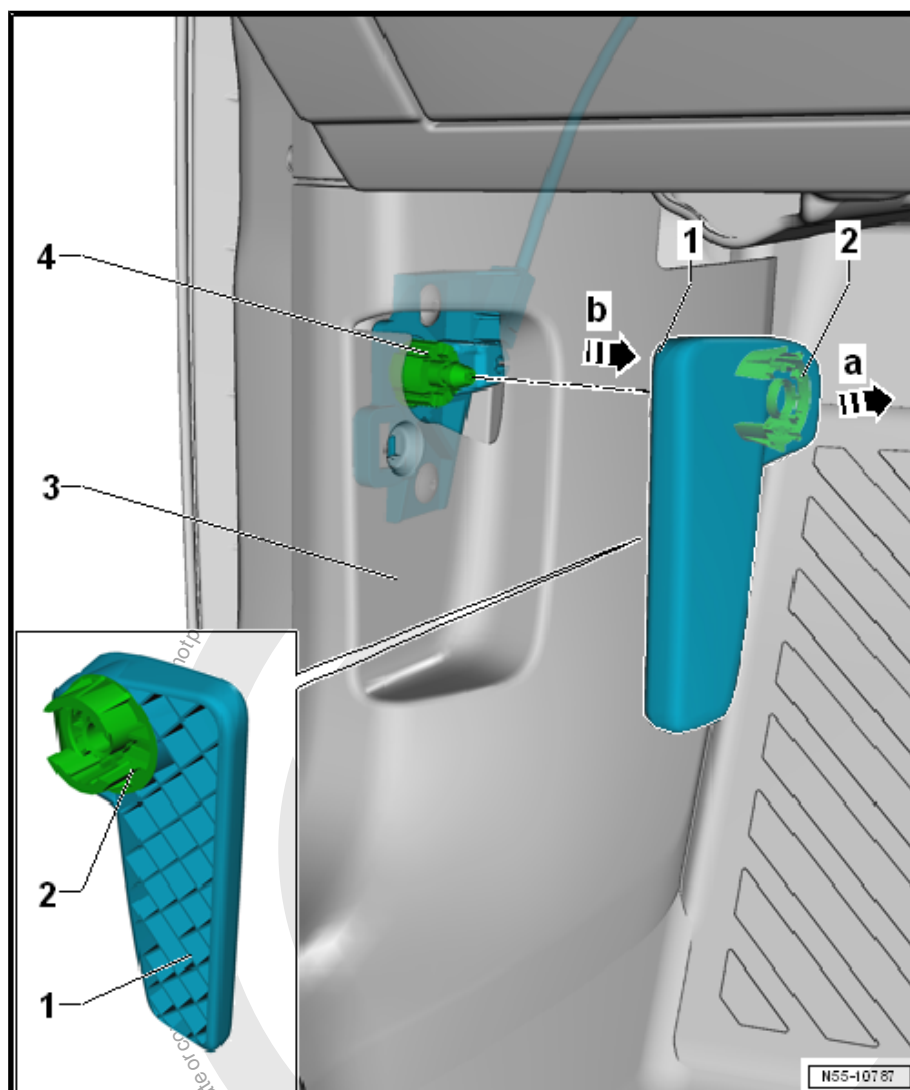
- Pull the hood release lever -1- and release the hood.
- Insert a small screwdriver into the gap between the hood release lever -1- and the clip -2-.
- Pry the clip -2- out of the hood release lever -1- -arrow b- and then remove the hood release lever from the bracket -3- -arrow a-.

It is necessary to remove the A-pillar lower trim -4- to continue working on the bracket -3-. Refer to ⇒ Body Interior; Rep. Gr.



70 ; Passenger Compartment Trim; A-Pillar Trim Panel, Removing and Installing .

Installing



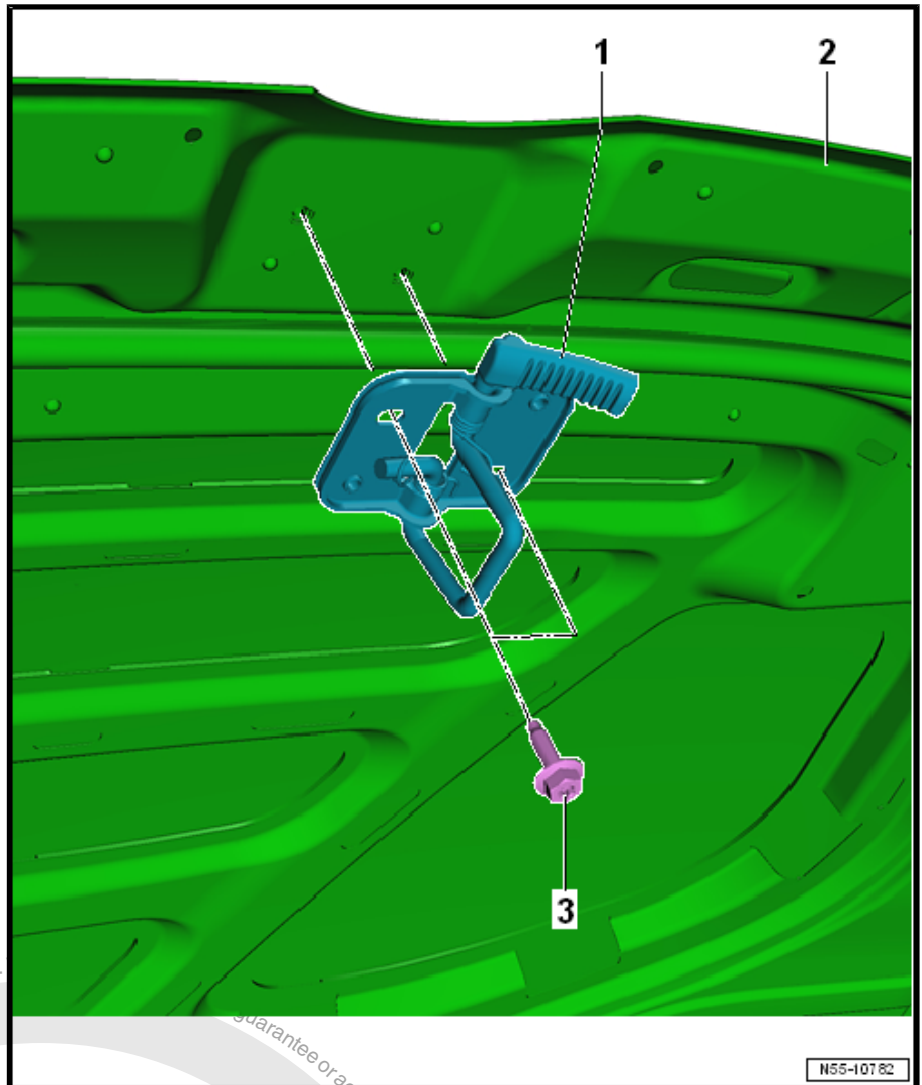
- Install the clip -2- in the hood release lever -1-.
- Install the hood release lever -1- on the bracket -4-.
- Before closing the hood, make sure the hood release lever and the cable are working correctly.

1.7 Catch, Removing and Installing

Special tools and workshop equipment required

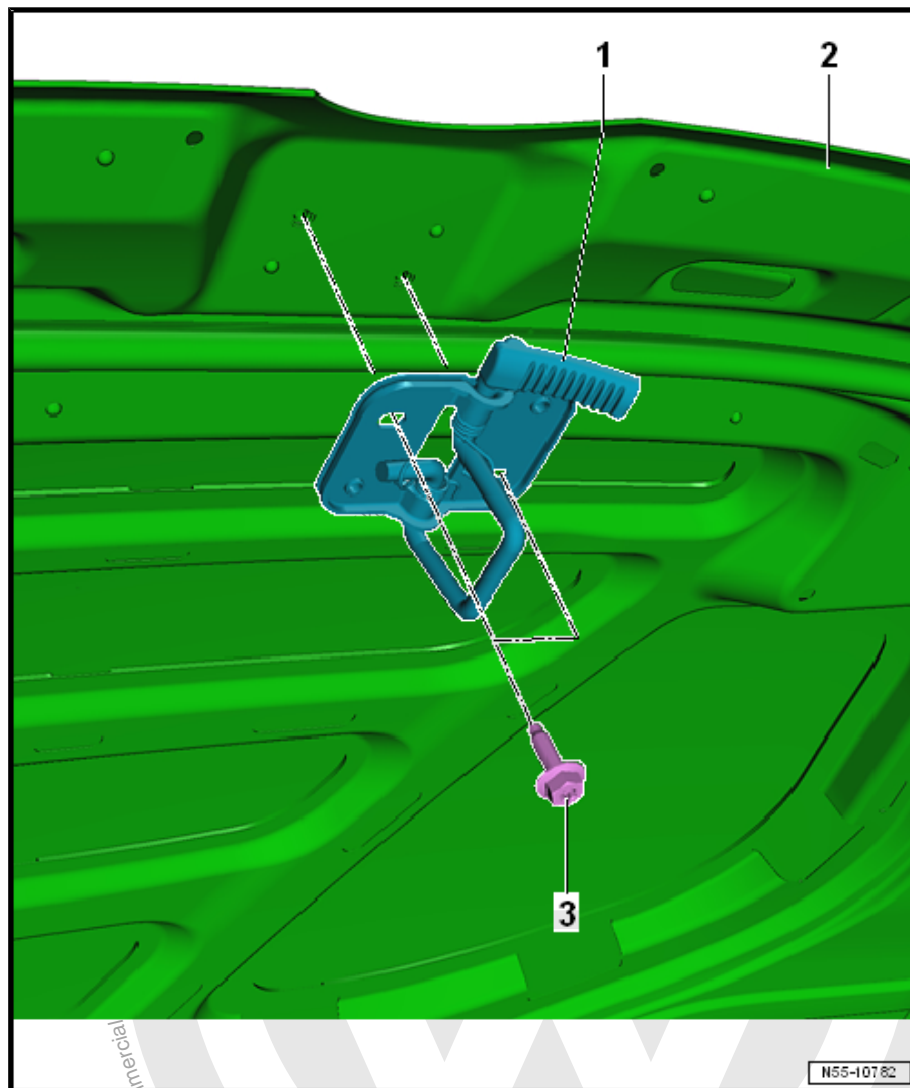
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-

Removing



- Open the hood -2-.
- Remove the bolts -3-.
- Remove the hood catch -1- from the hood -2-.

Installing



Install the hood catch -1- in reverse order of removal.

- Adjust the catch ⇒ [“1.4 Hood, Adjusting”, page 31](#) .

Tightening Specifications

1.8 Hinges, Removing and Installing

Special tools and workshop equipment required

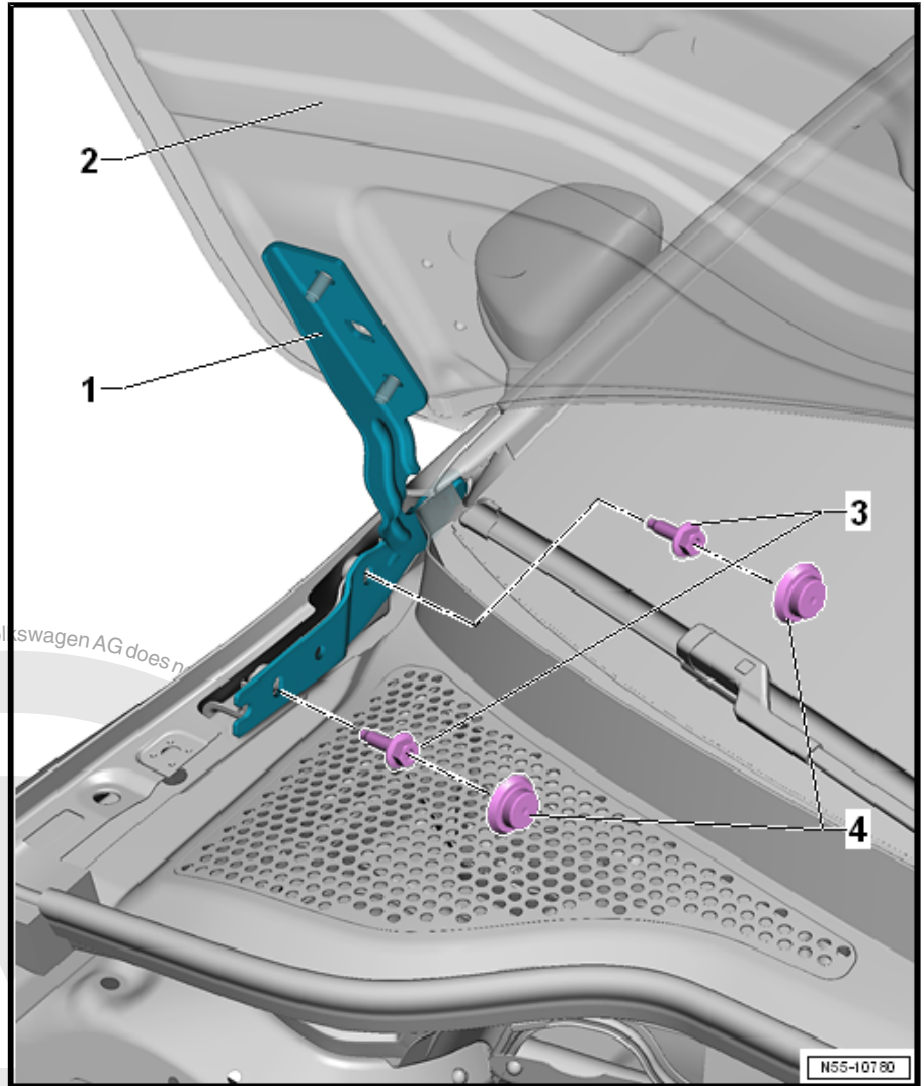
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-



Note

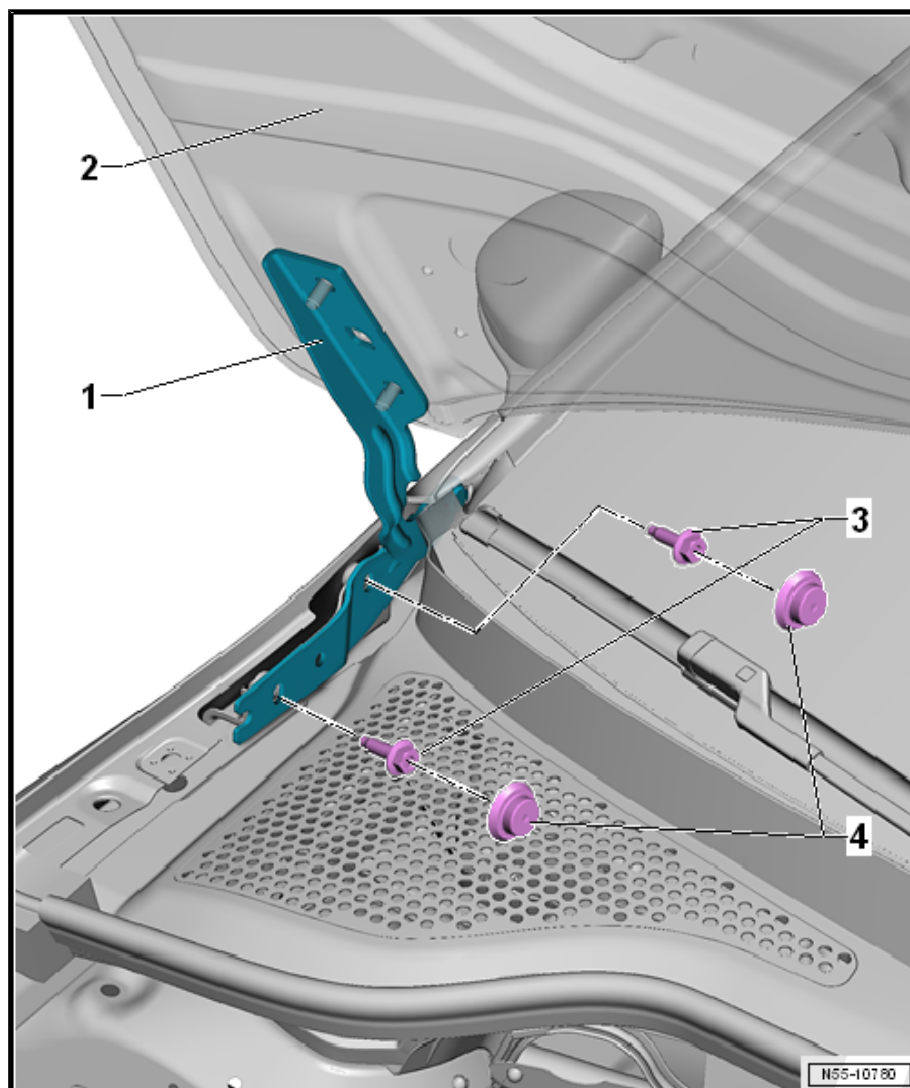
*The following describes removing and installing the right hinge.
Removing and installing the left hinge is identical.*

Removing



- Hood -2- Removing. Refer to
⇒ ["1.3 Hood, Removing and Installing", page 29](#)
- If equipped, remove the caps -4-.
- Remove the bolts -3-.
- Remove the hinge -1-.

Installing



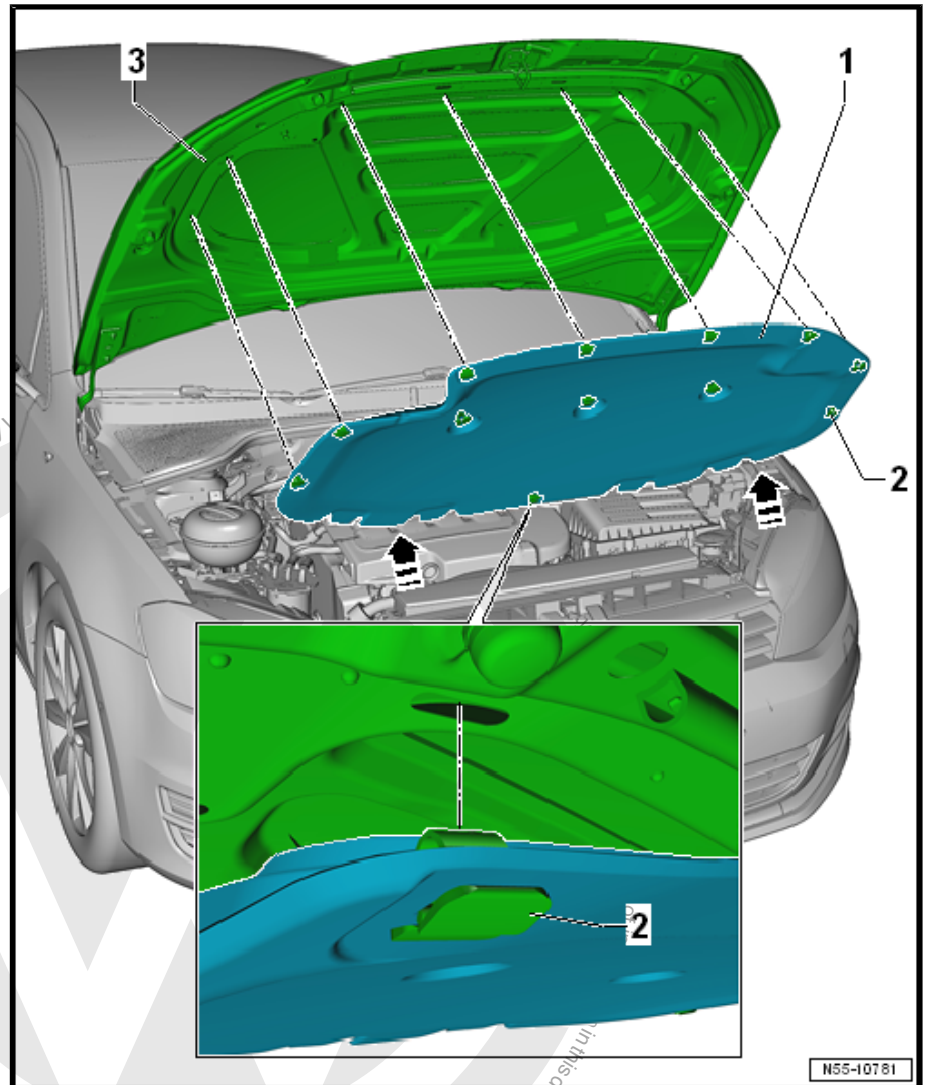
Install the hinge -1- in reverse order of removal.

- Install the hood -2-. Refer to
⇒ [“1.3 Hood, Removing and Installing”, page 29](#).

Tightening Specifications

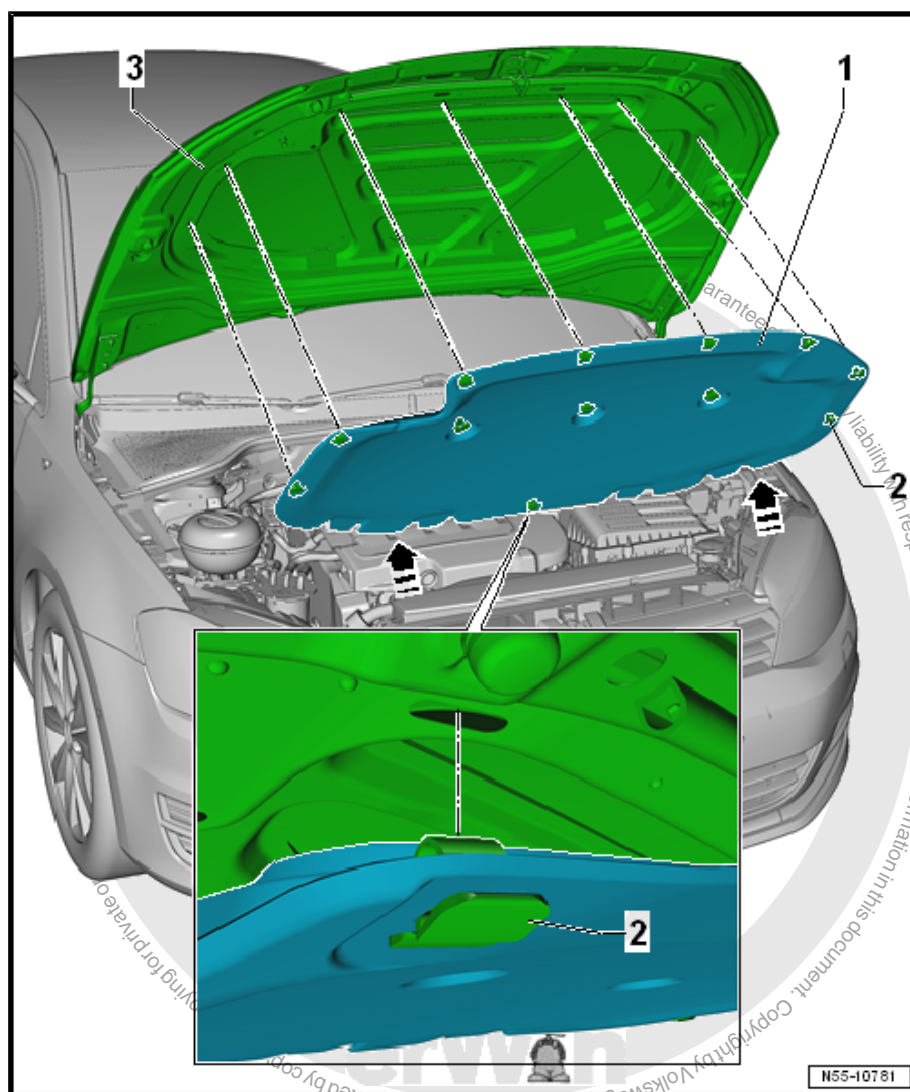
1.9 Insulation, Removing and Installing

Removing



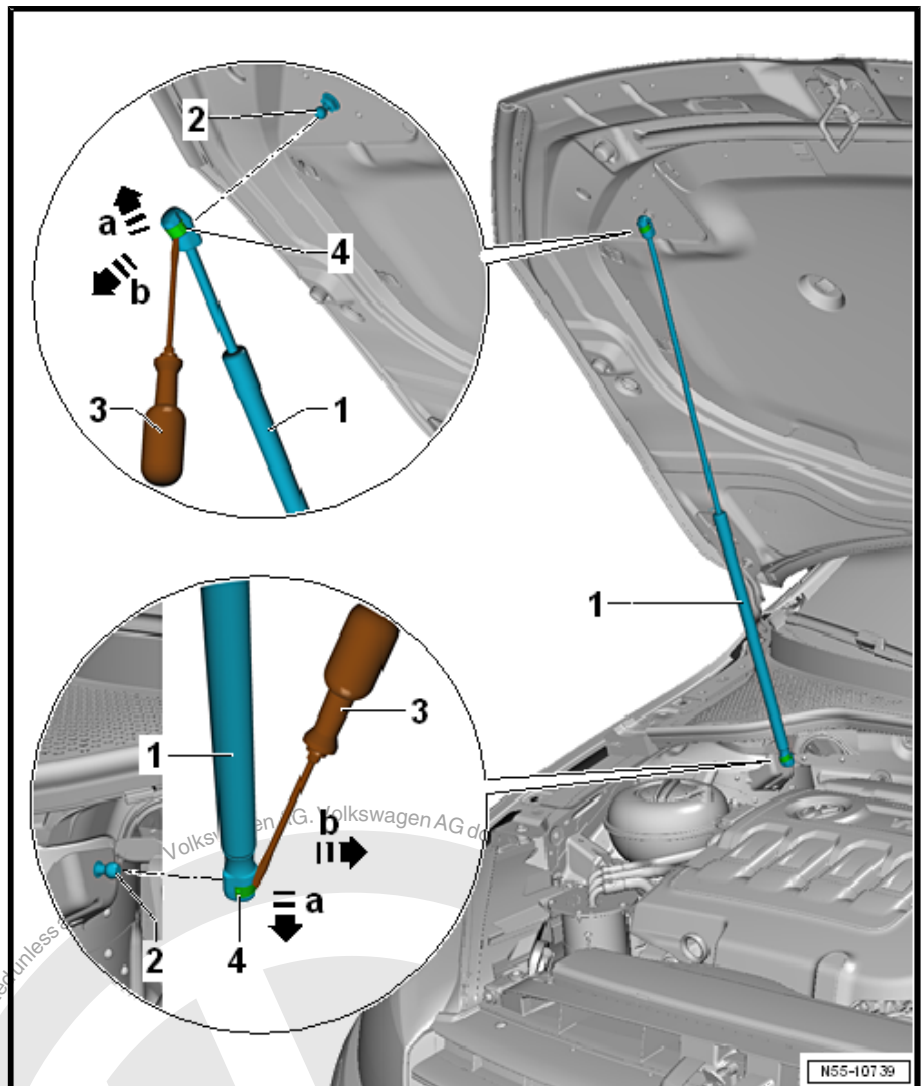
- Remove the retaining clips -2- from the hood -3- with the Pry Lever - 80 - -200- .
- Remove the insulation -1- from the elongated holes -arrows-.

Installing



- Slide the insulation -1- with the mounting tabs -arrows- into the elongated holes.
- Lock all the clips -2- into the hood -3-.

1.10 Gas-Filled Strut, Removing and Installing



Removing

- Open and support the hood.



WARNING

Proceed carefully when re-using gas-filled strut. Do not pry the spring clips completely out of the ball socket or they will be damaged. The gas-filled strut will jump out of the mount and be damaged or injure the technician.

- Insert a small screwdriver -3- under the spring clip -4-.
- Lift the spring clip -4- just far enough to make it possible to slide them over the ball socket -arrow a-.
- Remove the gas-filled strut -1- from the ball stud -2- -arrow b-.

After removing gas-filled strut -1-, immediately slide back spring clips -4- again.



- The gas inside the gas-filled strut must be removed for disposing. Refer to
⇒ ["1.11 Gas-Filled Strut, Releasing Gas", page 50](#).

Installing

- Push the gas-filled strut -1- on the ball stud -2-.

Component	Tightening Specifications
Ball Stud	20 Nm

1.11 Gas-Filled Strut, Releasing Gas

- Clamp area -x- of the gas strut in the vise, area -x- = 50 mm.

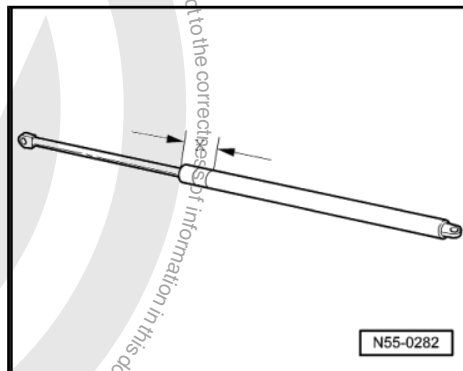


WARNING

Protective eyewear must be worn during the cutting process.

Cover the area of the saw cut with a clean rag.

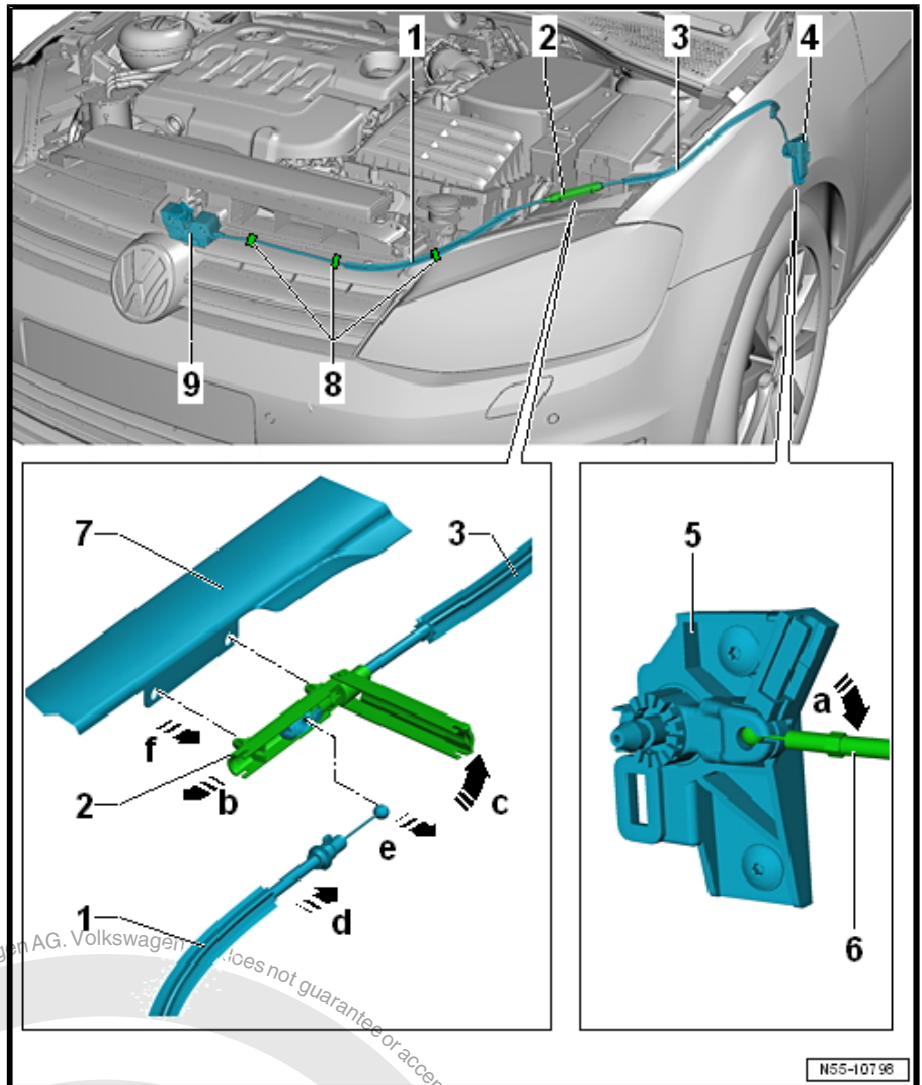
Dispose of the oil and rag properly.



- Saw into the cylindrical part of gas-filled strut in the first third of the total cylinder length, determined starting from the edge of the cover on the side with the piston rod.

1.12 Release Cable, Removing and Installing

Removing



- Open the hood.
- Remove the hood release lever. Refer to ["1.6 Hood Release Lever, Removing and Installing", page 41](#).
- Remove the release cable -3- from the bracket -5- -arrow a-.
- Remove the release cable coupling -2- from the support -7- -arrow e-.
- Slightly remove the release cable -1- -arrow a-.
- Open the cap of the release cable coupling -arrow b-.
- Release the release cable -1- -arrow c- and remove from the release cable coupling -2-.



Note

To remove and install the release cable -3- the support -7- is removed. Refer to ["1.1 Overview - Lock Carrier", page 1](#).

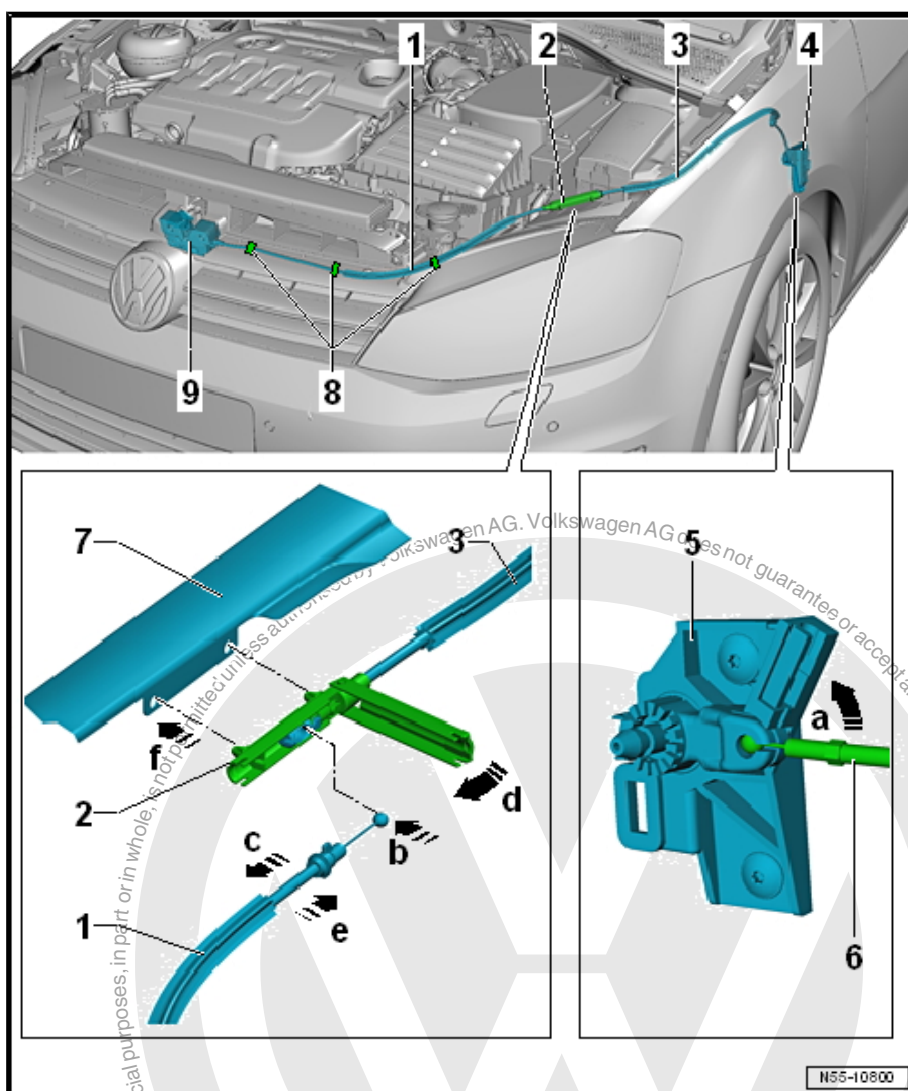


Installing



Note

- ◆ When the release cable -3- is not removed from the bracket, the release cable -1- disengages further when installing the release cable coupling -2-.
- ◆ The hood then cannot be opened.



- Engage the release cable -1- in the release cable coupling -2- -arrow a-.
- Remove the release cable from the release cable coupling -arrow b-.
- Close the release cable coupling -arrow c-.
- Push the release cable -1- in the release cable coupling -arrow d-.
- Secure the release cable coupling -2- on the lock carrier -4- -arrow e-.
- Install the release cable -3- in the bracket -5- -arrow a-.



- Install the operating lever. Refer to
[⇒ "1.6 Hood Release Lever, Removing and Installing",
page 41](#) .
- Before closing the hood, test the function of the control lever
and release cable.





2 Rear Lid

⇒ [“2.1 Overview - Rear Lid”, page 54](#)

⇒ [“2.2 Rear Lid, Removing and Installing”, page 55](#)

⇒ [“2.3 Rear Lid, Adjusting”, page 57](#)

⇒ [“2.4 Hood Latch, Removing and Installing”, page 62](#)

⇒ [“2.5 Actuator, Removing and Installing”, page 64](#)

⇒ [“2.6 Hinges, Removing and Installing”, page 68](#)

⇒ [“2.7 Catch, Removing and Installing”, page 70](#)

⇒ [“2.8 Rear Lid Seal, Removing and Installing”, page 71](#)

⇒ [“2.9 Gas-Filled Strut, Removing and Installing”, page 73](#)

⇒ [“2.10 Gas-Filled Strut, Releasing Gas”, page 75](#)

2.1 Overview - Rear Lid

1 - Rear Lid

- ☐ Removing and installing. Refer to
⇒ [“2.2 Rear Lid, Removing and Installing”, page 55](#).
- ☐ Adjusting. Refer to
⇒ [“2.3 Rear Lid, Adjusting”, page 57](#).

2 - Lid Latch

- ☐ Removing and installing. Refer to
⇒ [“2.4 Hood Latch, Removing and Installing”, page 62](#).

3 - Bolts

- ☐ 20 Nm
- ☐ Quantity: 2

4 - Hinge

- ☐ Left and right
- ☐ Removing and installing. Refer to
⇒ [“2.6 Hinges, Removing and Installing”, page 68](#).

5 - Adjusting Buffer

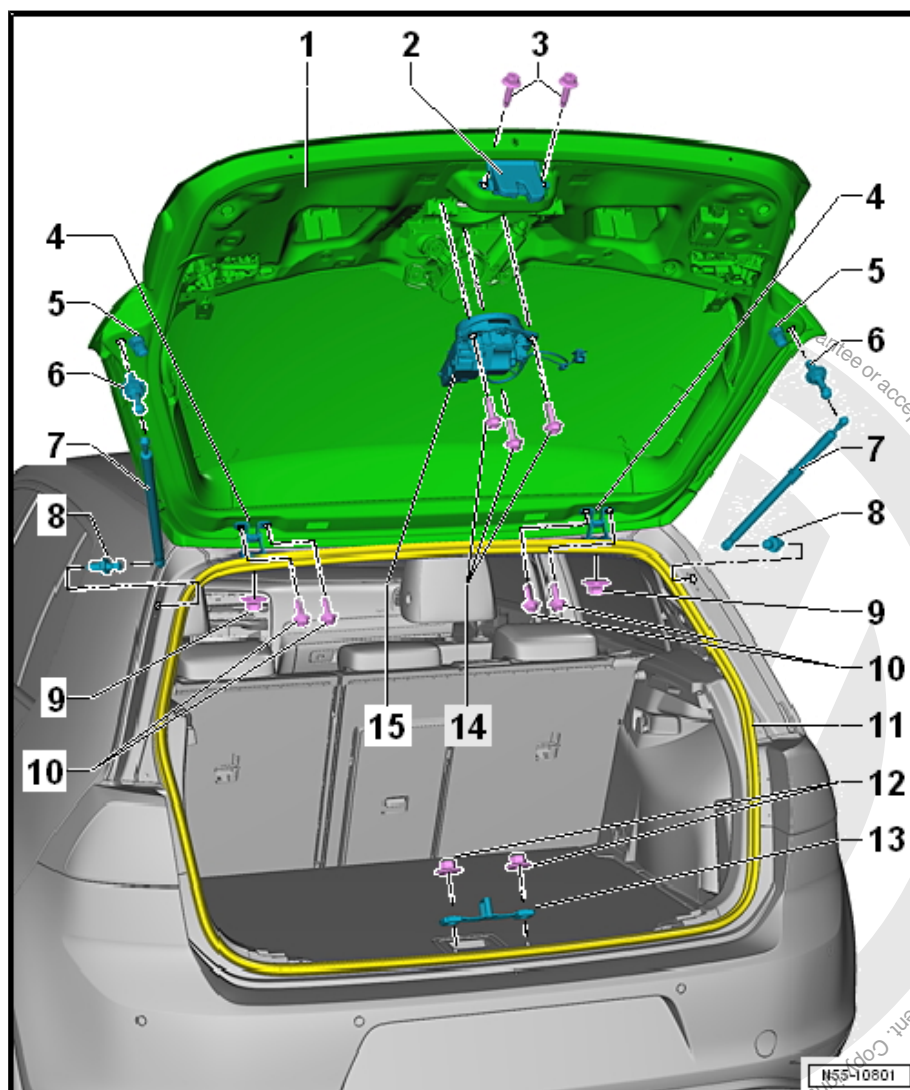
- ☐ Left and right
- ☐ Adjusting. Refer to
⇒ [“2.3 Rear Lid, Adjusting”, page 57](#).

6 - Ball Stud

- ☐ 20 Nm + 45°
- ☐ On the rear lid

7 - Gas-Filled Strut

- ☐ Removing and installing. Refer to ⇒ [“2.9 Gas-Filled Strut, Removing and Installing”, page 73](#).
- ☐ Releasing the gas. Refer to ⇒ [“2.10 Gas-Filled Strut, Releasing Gas”, page 75](#).





8 - Ball Stud

- ☐ 20 Nm + 45°
- ☐ On side panel

9 - Hex Nut

- ☐ 20 Nm + 45°
- ☐ 1 per hinge

10 - Bolts

- ☐ 10 Nm
- ☐ 2 per hinge

11 - Seal

- ☐ Removing and installing. Refer to ➤ [“2.8 Rear Lid Seal, Removing and Installing”, page 71](#) .

12 - Hex Nut

- ☐ 20 Nm
- ☐ Quantity: 2

13 - Catch

- ☐ Removing and installing. Refer to ➤ [“2.7 Catch, Removing and Installing”, page 70](#) .
- ☐ Adjusting. Refer to ➤ [“2.3 Rear Lid, Adjusting”, page 57](#) .

14 - Bolts

- ☐ 5 Nm
- ☐ Quantity: 3

15 - Actuator

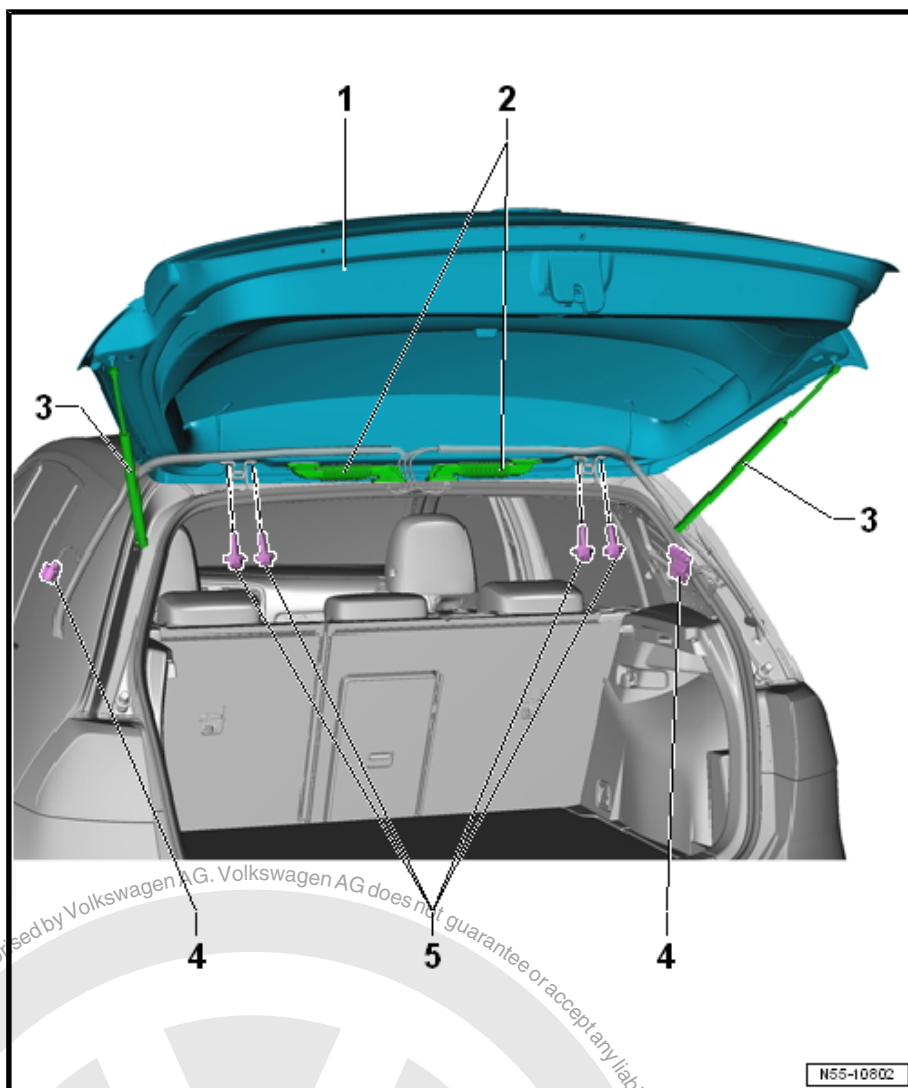
- ☐ The badge can be exchanged individually. Refer to ➤ [“8.4 Rear Emblem, Removing and Installing”, page 398](#) .
- ☐ Removing and installing. Refer to ➤ [“2.5 Actuator, Removing and Installing”, page 64](#) .

2.2 Rear Lid, Removing and Installing

Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm - VAG1331-

Removing



- Remove the rear lid upper trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Upper Rear Lid Trim Panel, Removing and Installing .
- Remove the rear lid lower trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Lower Rear Lid Trim Panel, Removing and Installing .
- Remove the high-mounted brake lamp. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; High-Mounted Brake Lamp; High-Mounted Brake Lamp, Removing and Installing .
- Disconnect the connectors from any electrical components.
- Remove the electric wires with the rubber grommet -2- out of the rear lid.



Note

The connectors -4- for the wire -2- is located on the C-pillars.

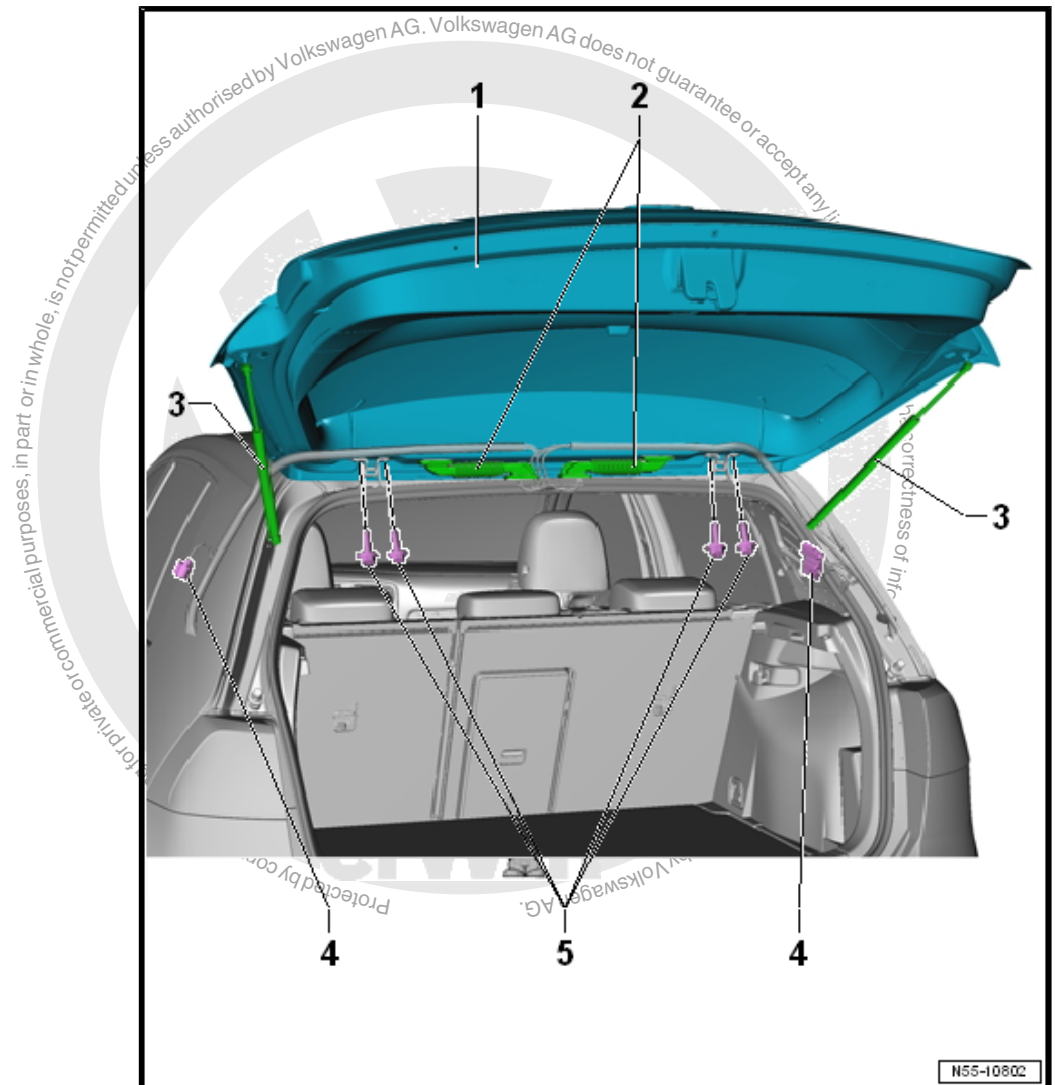
- Loosen, but do not remove, the bolts -5-, on the left and right hinges.

A second technician is required for the rest of the removal procedure.



- Remove the gas-filled strut -3-. Refer to
⇒ [“2.9 Gas-Filled Strut, Removing and Installing”, page 73](#) .
- Remove the bolts -5- and the rear lid -1-.

Installing



- Install the rear lid -1- with a second technician.
- Install the gas-filled strut -3-. Refer to
⇒ [“2.9 Gas-Filled Strut, Removing and Installing”, page 73](#) .
- Guide the electric wires -2- into the rear lid and install the rubber grommet.
- Connect the connectors from any electrical components.

Install in reverse order of removal.

- Perform a function test on the unlocking components before closing the rear lid.
- Adjust the rear lid. Refer to
⇒ [“2.3 Rear Lid, Adjusting”, page 57](#) .

2.3 Rear Lid, Adjusting

Special tools and workshop equipment required

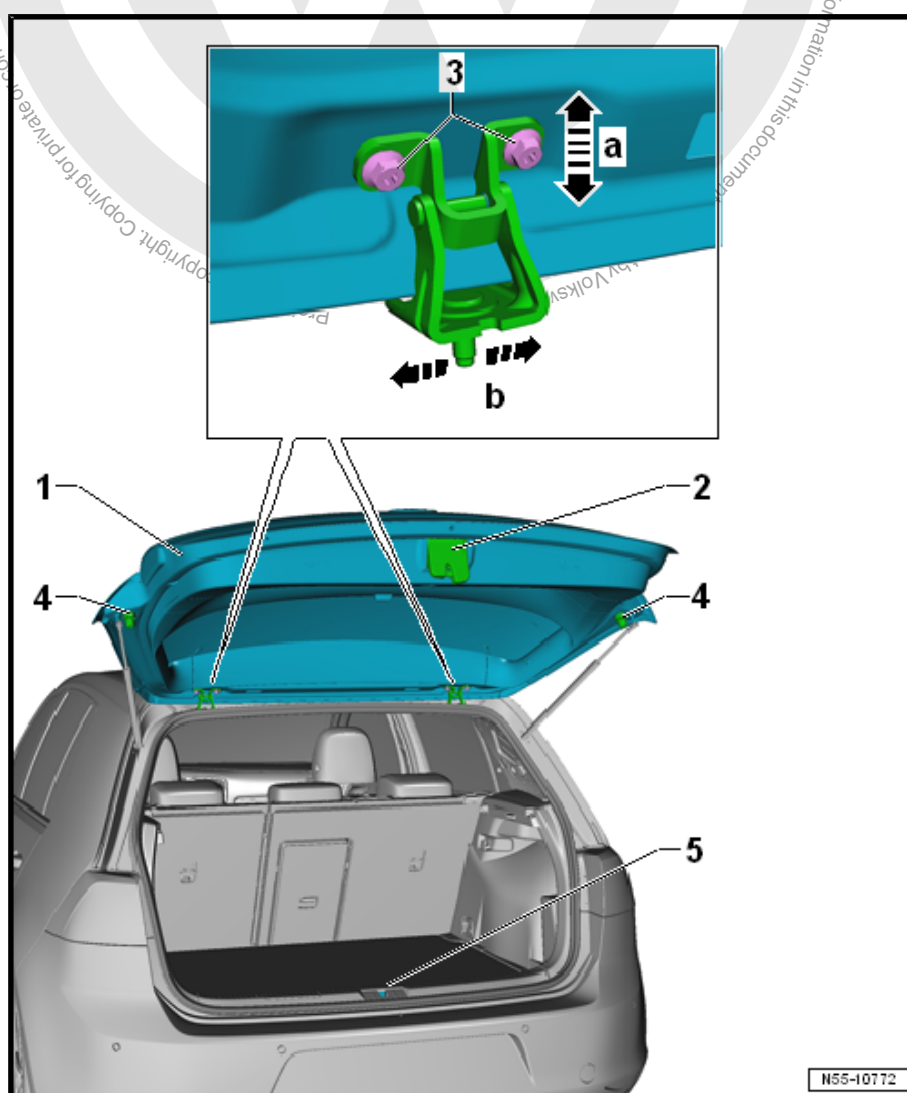


- ◆ Torque Wrench 1331 5-50Nm - VAG1331-
- ◆ Gauge - Gap Adjustment - 3371-



Note

- ◆ *The vehicle must be on the ground when adjusting the rear lid.*
- ◆ *The rear lid latch -2- is bolted directly to the rear lid -1-. The latch cannot be adjusted.*
- ◆ *The left and right buffers -4- are not meant for adjusting. They stabilize or cushion the rear lid.*
- ◆ *The hood is properly adjusted when there is an overall even gap dimension when closed. It is not too far inward or outward and contours align. The contours line up.*
- ◆ *Rear lid must engage in striker pin without great force.*



To adjust or control gap dimensions use the Gauge - Gap Adjustment - 3371- ➔ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .

- Loosen the striker pin -5- and after applying corrosion protection, adjust on the hinge and the adjusting buffer. Refer to ➔ [page 61](#) .



- Loosen the left and right bolts -3- and adjust the rear lid -1- in the oversized holes on the hinge -arrows a- and -arrows b-.
- After adjusting, apply a corrosion protection to the hinge and bolts -3-.
- Adjust the adjusting buffer.

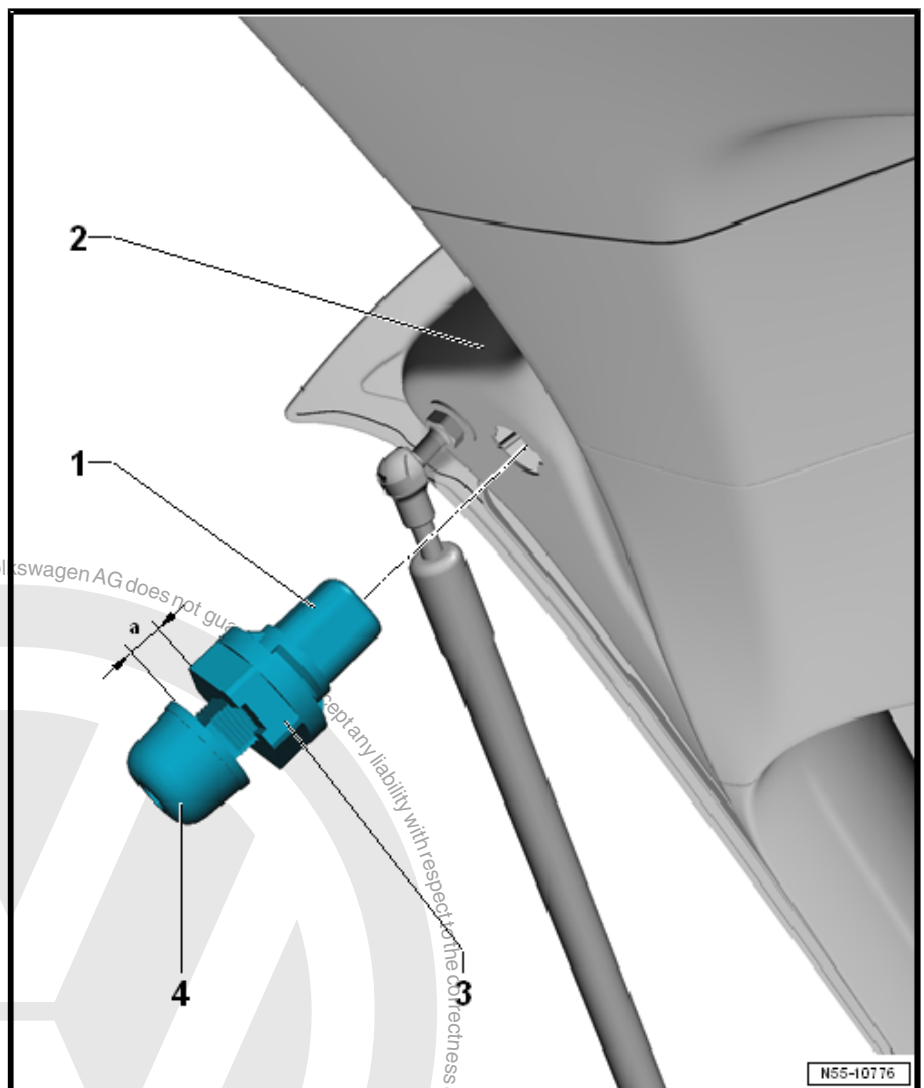
Tightening Specifications

Adjustment Buffer, Adjusting



Note

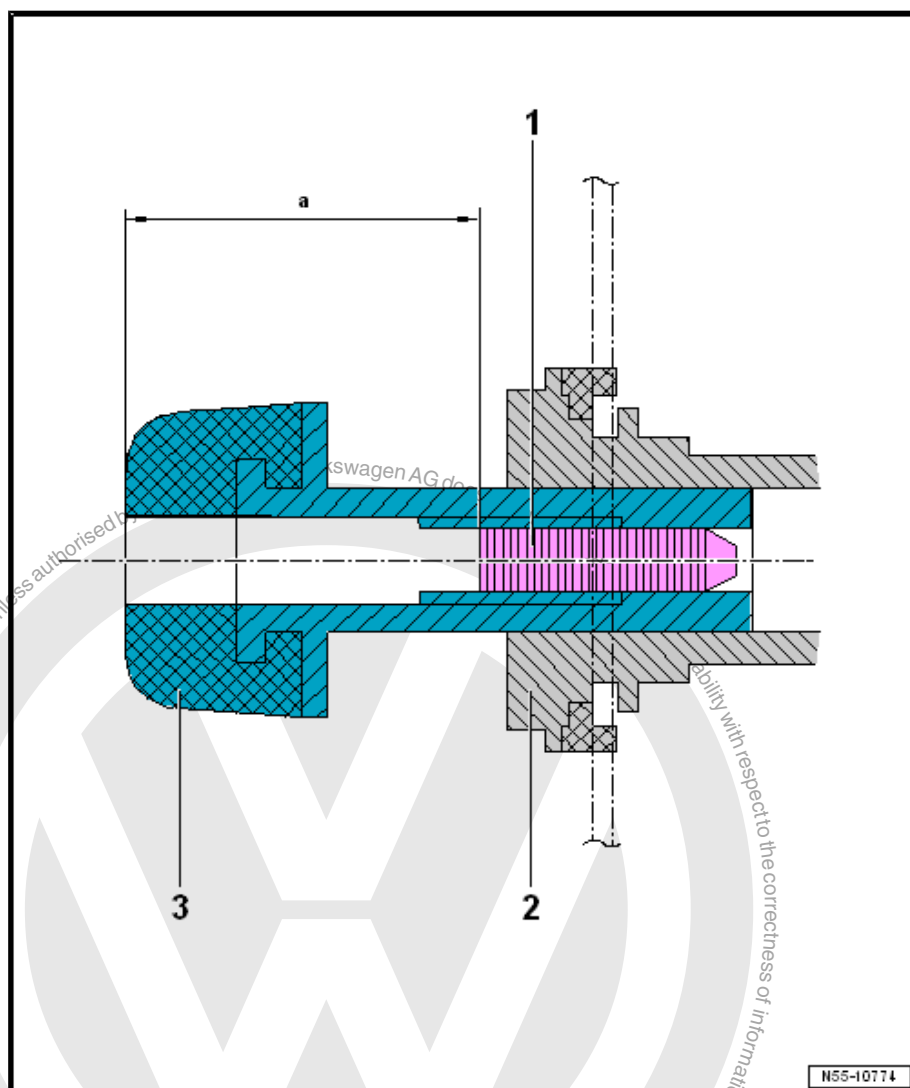
If necessary replace the adjusting buffer. Refer to [⇒ page 60](#).



- Loosen the clamping screw -4- until it is visible in the rubber buffer.
- Pull the locking retainer -3- out of the adjustment buffer -1-.
- Set notched slider to dimension -a- = 12.5 mm.
- Close the rear lid in the initial locking position using light pressure over the center.

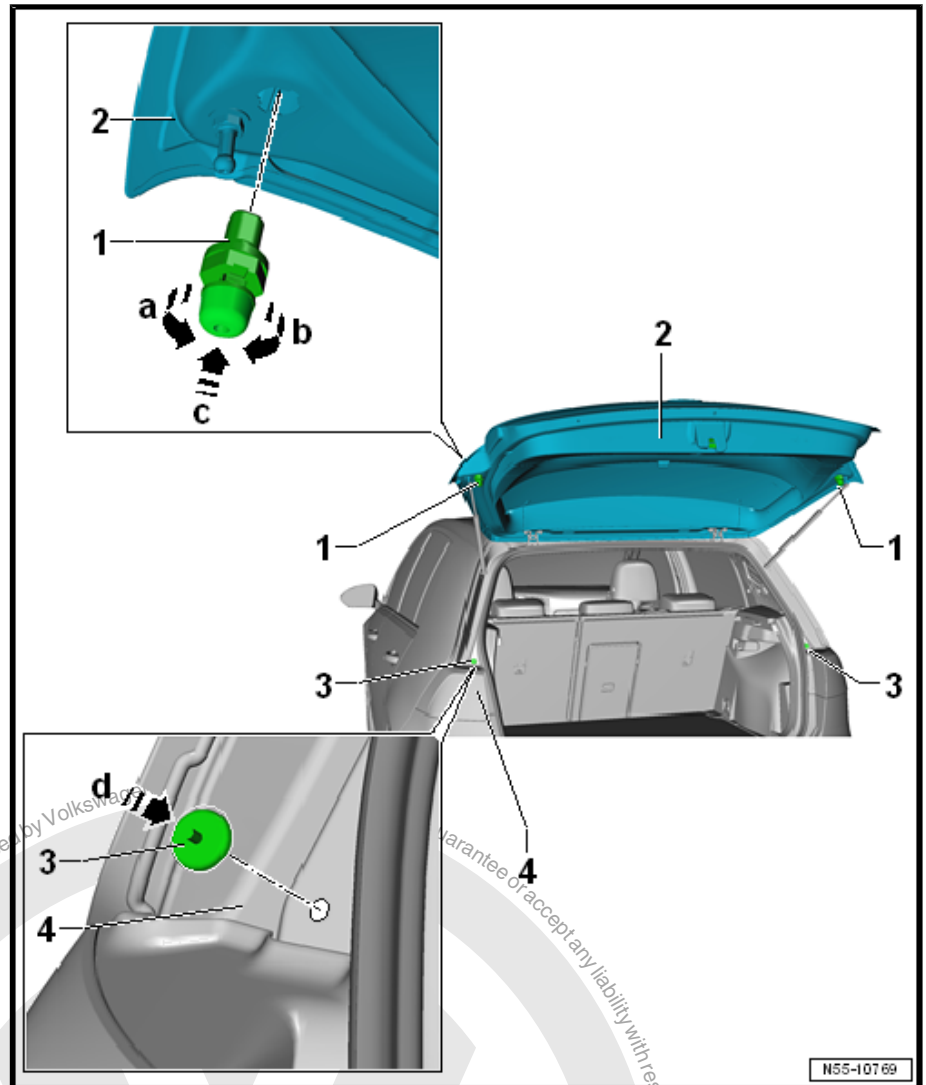


- Open the rear lid again.



- Screw in the clamping screw -1- of the adjustment buffer -2- to a depth of -a- = 20 mm.
- Check the adjustment.

Replacing the Adjusting Buffer



Removing

- Turn the buffer -1- 90° -arrow a- to remove the adjusting buffer.
- Remove the buffer from the rear lid -3-.

Installing

- Check the stop -3- for proper seating in the side panel -4-.
- For installation, insert the entire buffer -1- in the right bracket in the rear lid -arrow c-.
- Turn the buffer -1- 90° -arrow b-.
- Adjust the adjusting buffer -1-. Refer to [page 59](#) .

Catch, Adjusting

Special tools and workshop equipment required

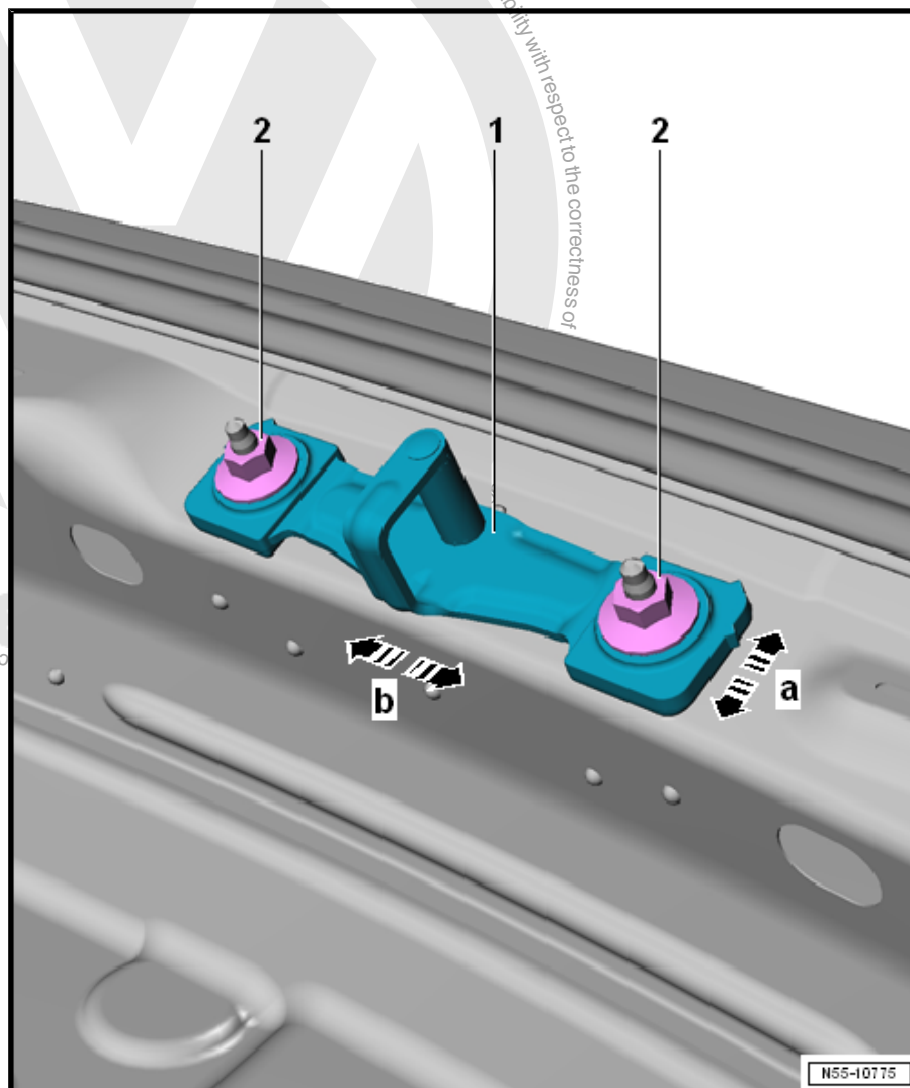
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-





Note

- ◆ Loosen the hex nuts -2- and move the striker pin -1- inside the oversized holes -arrow a- and -arrow b-.
- ◆ Adjust the striker pin -1- so that the rear lid lock recess with the rotary latch engages with the center of the striker pin -1-.



- Remove the rear lid lock trim. Refer to ⇒ Body Interior; Rep. Gr. 70 .
- Loosen the hex nuts -2-.
- Move the rear lid catch -1- into the upper position and tighten the hex nuts -2-.
- Close the rear lid and check the adjustment.

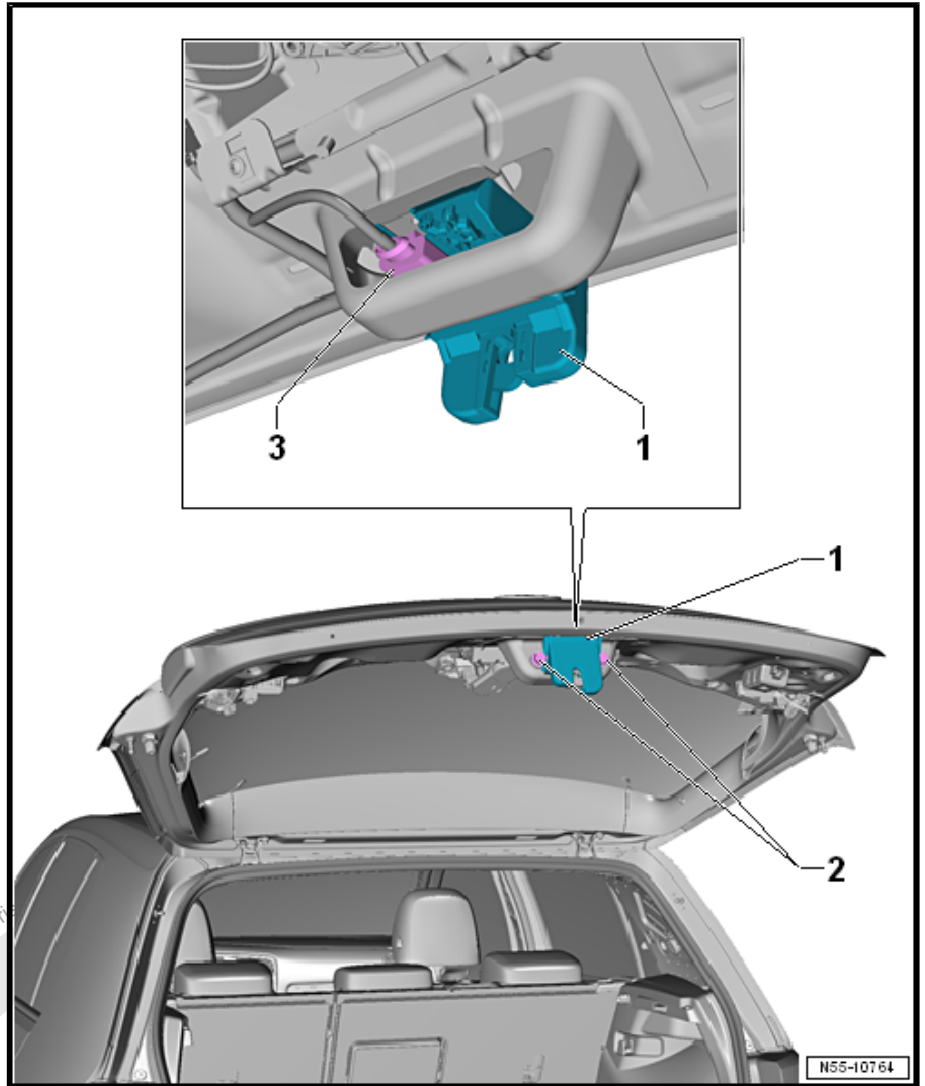
Tightening Specifications

2.4 Hood Latch, Removing and Installing

Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm - VAG1331-

Removing

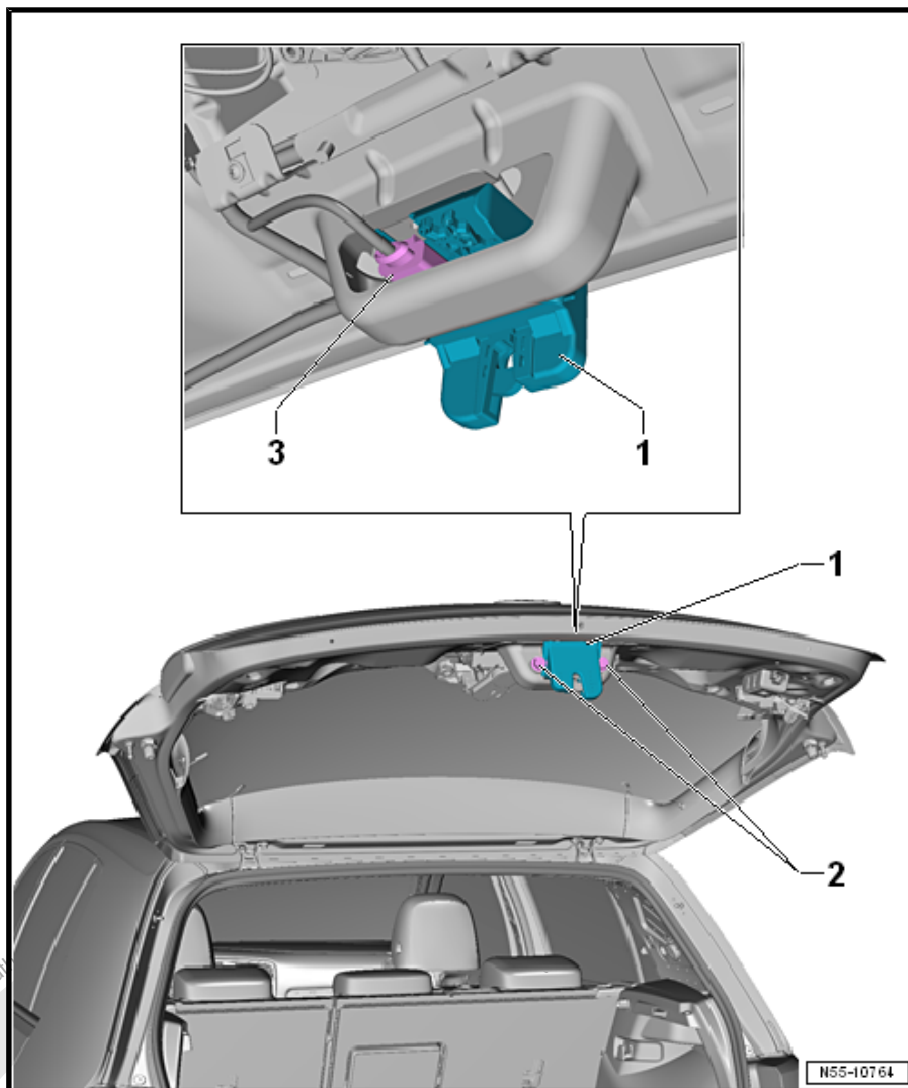


Note

If the rear lid does not open, use the emergency release inside the rear lid trim panel to open it manually. Refer to the Owner's Manual.

- Remove the rear lid trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Lower Rear Lid Trim Panel, Removing and Installing .
- Disconnect the connector -3- from the rear lid lock -1-.
- Remove the bolts -2- and latch -1- from the rear lid.

Installing



- Install the latch -1- in the rear lid and tighten the bolts -2-.
- Connect the connector -3- to the rear lid latch -1-.

Tightening Specifications

2.5 Actuator, Removing and Installing

⇒ ["2.5.1 Actuator, Removing and Installing, without Rearview Camera", page 64](#)

⇒ ["2.5.2 Actuator, Removing and Installing, with Rearview Camera", page 66](#)

2.5.1 Actuator, Removing and Installing, without Rearview Camera

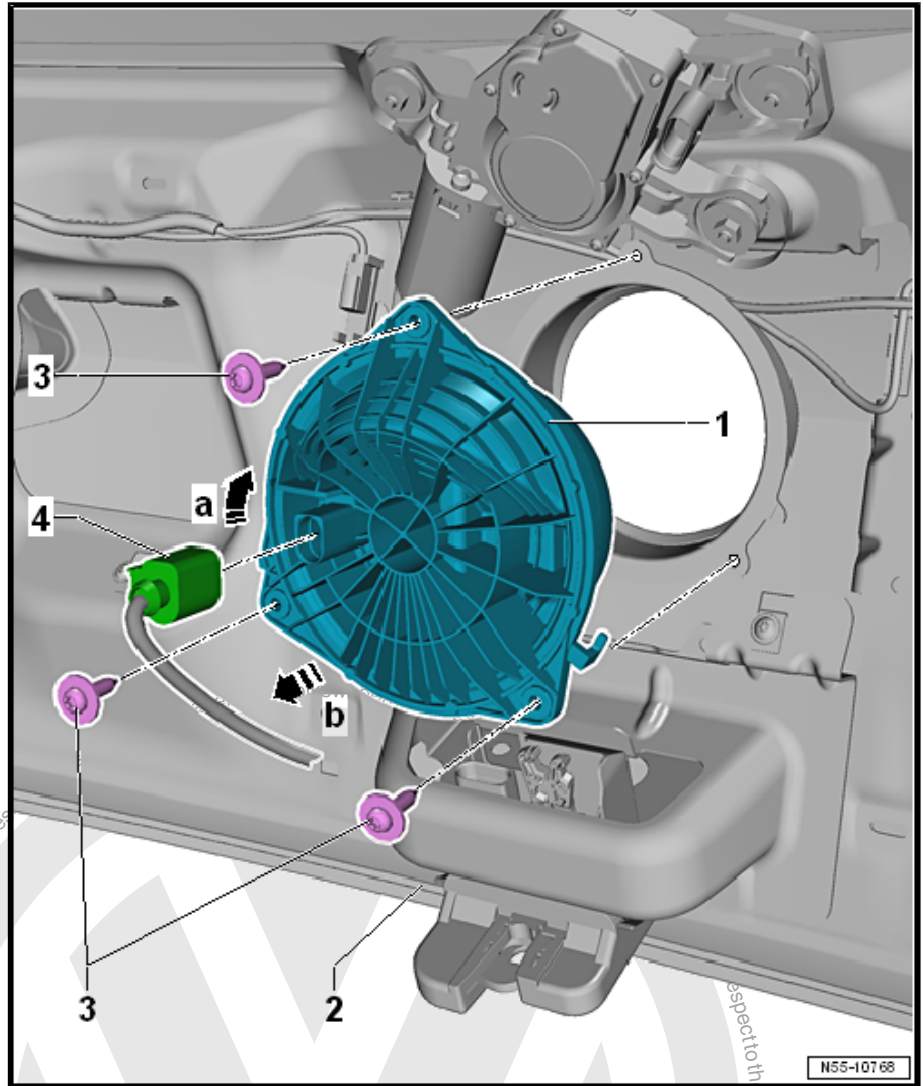
Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm - VAG1331-



Note

The badge can be exchanged individually. Refer to
⇒ ["8.4 Rear Emblem, Removing and Installing", page 398](#) .

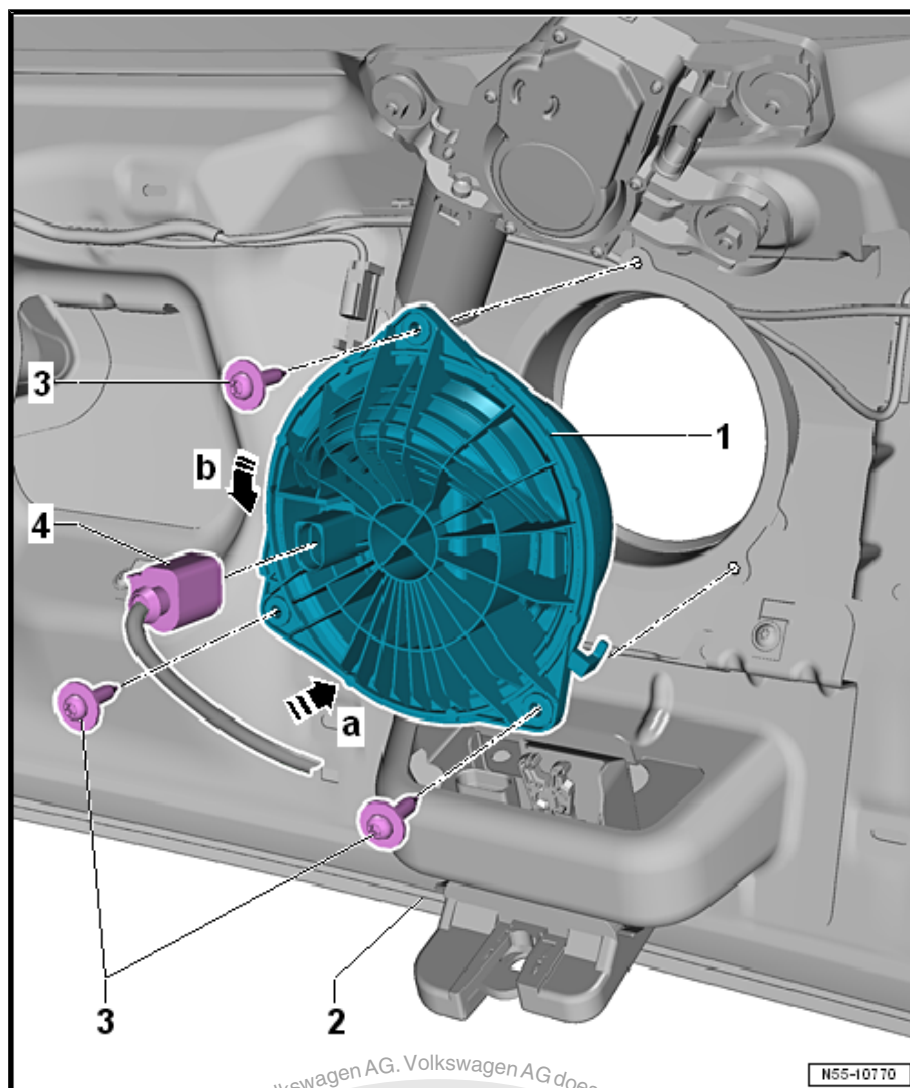


Removing

- Remove the rear lid trim panel. Refer to ➤ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Lower Rear Lid Trim Panel, Removing and Installing .
- Disconnect the connector -4- from the actuator connection -1-.
- Remove the bolts -3-.
- Turn the actuator -1- slightly -arrow a- and remove from the rear lid -arrow b-.

It is not possible to open the rear lid using the emergency release if there is an electric malfunction. There is an opening in the rear lid trim panel to reach the emergency release.

Installing



- Install the actuator -1- in the rear lid -arrow a- and turn slightly -arrow b-.

- Secure the connector -4- on the actuator.

Tightening Specifications

2.5.2 Actuator, Removing and Installing, with Rearview Camera

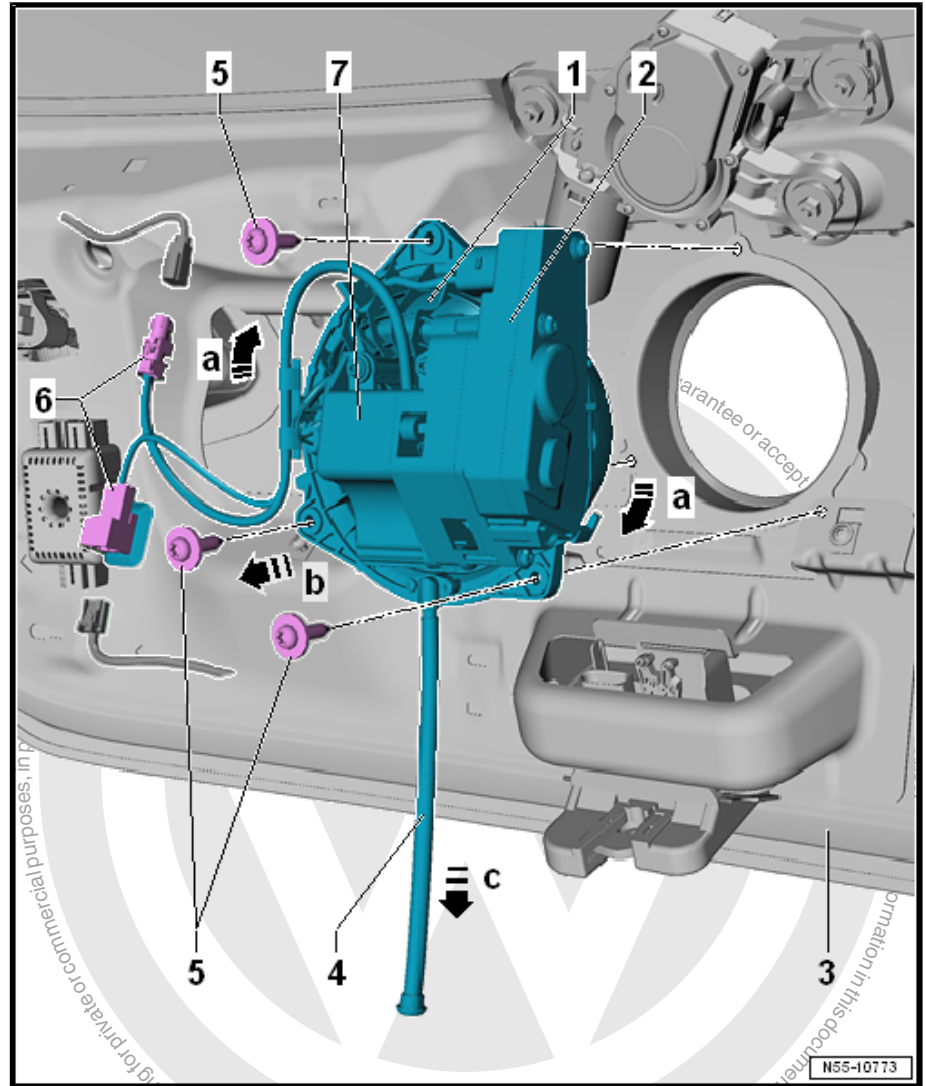
Special tools and workshop equipment required

- ♦ Torque Wrench 1331 5-50Nm - VAG1331-



Note

The badge can be exchanged individually. Refer to
⇒ ["8.4 Rear Emblem, Removing and Installing", page 398](#).



Removing

- Remove the rear lid trim panel. Refer to ➔ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Lower Rear Lid Trim Panel, Removing and Installing .
- Disconnect the connectors -6-.
- Remove the bolts -5-.
- Turn the actuator -1- slightly -arrow a- and remove from the rear lid -arrow b-.
- Remove the water drain hose -4- from the actuator -arrow c-.

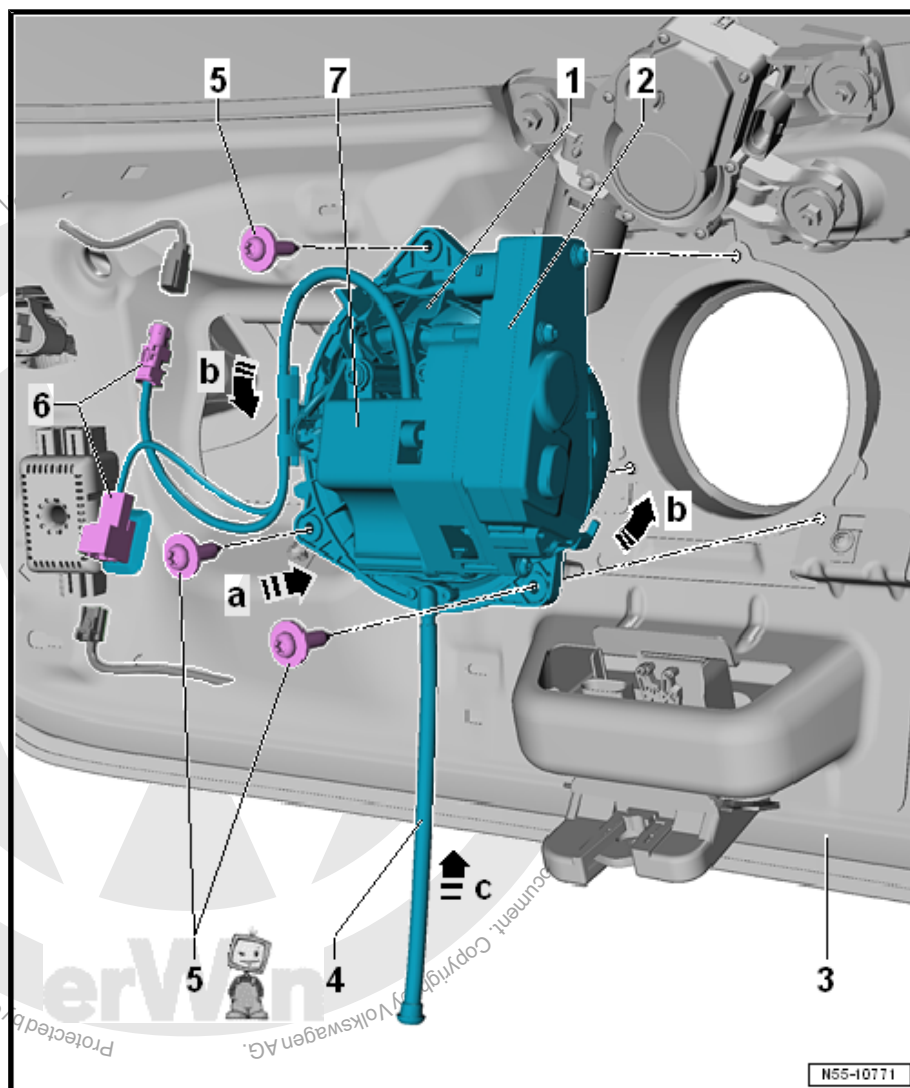
It is not possible to open the rear lid using the emergency release if there is an electric malfunction. There is an opening in the rear lid trim panel to reach the emergency release.

Notes and information on the rearview Camera -7- and the transmission -2- ➔ Communication; Rep. Gr. 91 ; Rearview Camera System .

Installing



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- Install the actuator -1- in the rear lid -arrow a- and turn slightly -arrow b-.
- Secure the water drain hose -4- on the actuator -arrow c-.
- Secure the harness connectors -6-.

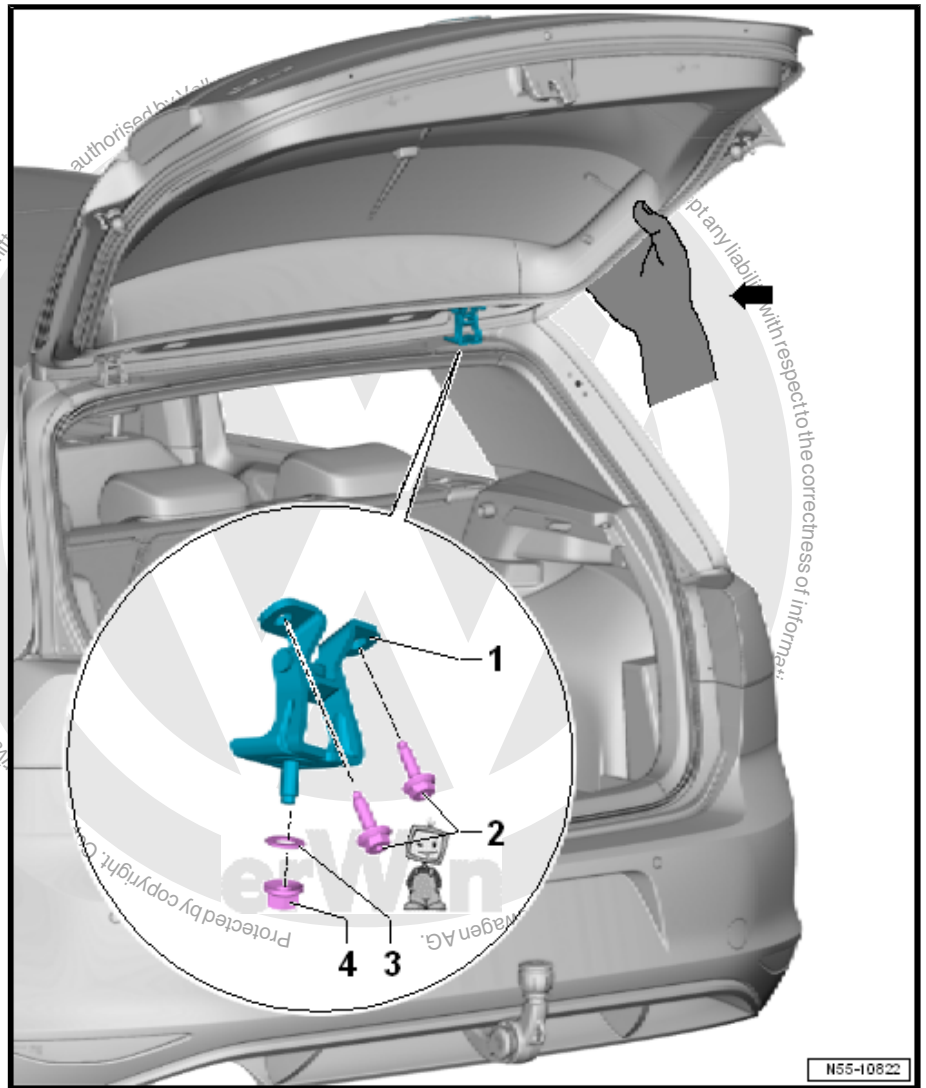
Tightening Specifications

2.6 Hinges, Removing and Installing

Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm - VAG1331-

Removing



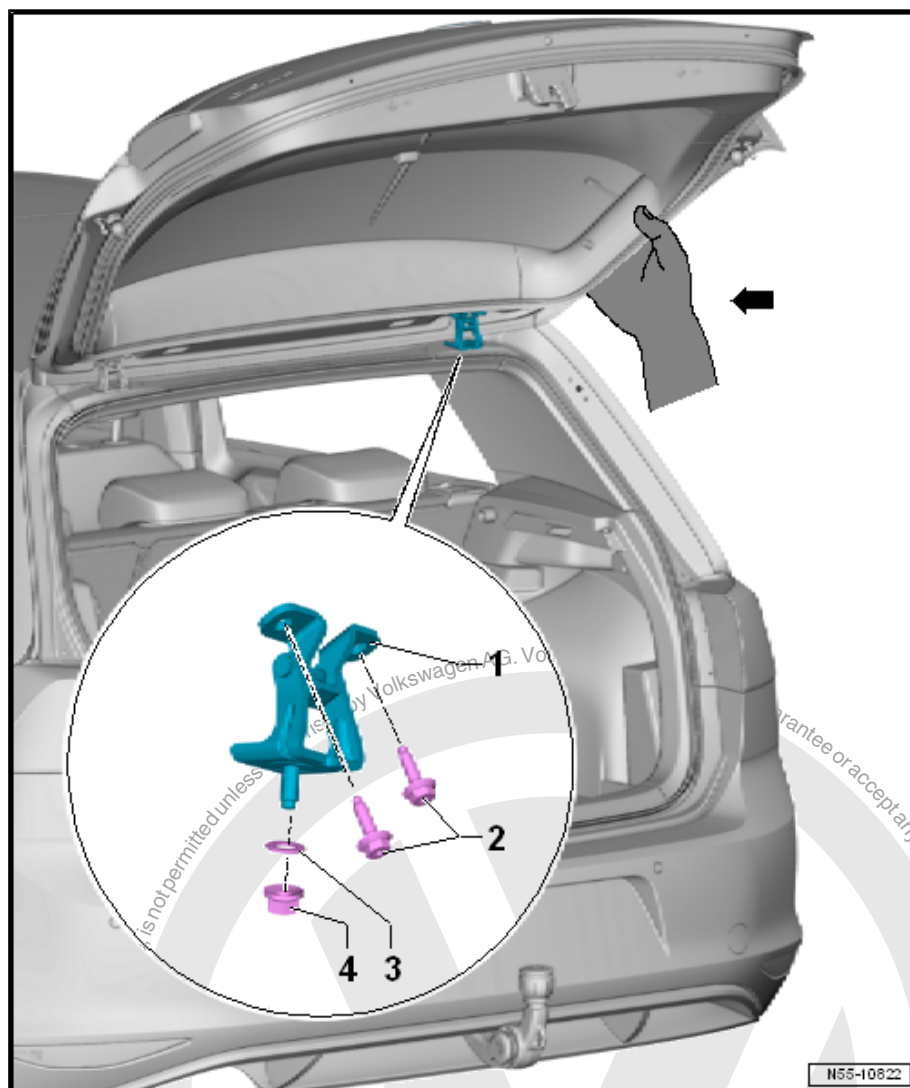
- Lower the headliner near the hinge mount. Refer to ➤ Body Interior; Rep. Gr. 70 ; Roof Trim Panels; Headliner, Removing and Installing .
- The headliner can now be lowered far enough so that hex nut -4- can be removed without damaging headliner.
- Loosen the hex nuts -4- and bolts -2-, do not remove.



Note

- ◆ *The roof edge and the upper edge of the rear lid are to be taped off, to prevent paint damage.*
- ◆ *For the following work a second technician must hold the rear lid in at the bottom -arrow-.*
- ◆ *The gas-filled strut remains installed.*
- Remove the hex nut -4- and bolts -2-.
- Remove the hinge -1-.

Installing



Install the hinge -1- in reverse order of removal.



Note

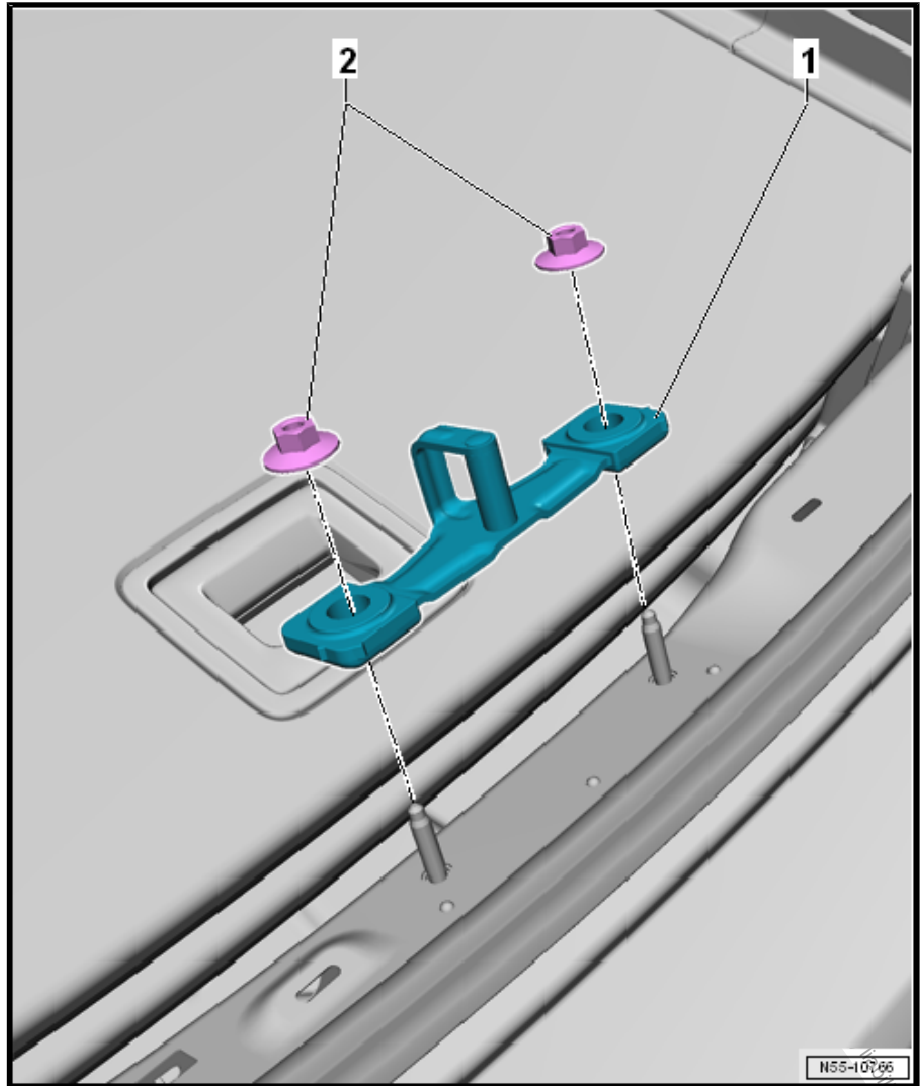
- ♦ Pay attention that the washer -3- is seated correctly.
- ♦ Re-create the sealing procedures.

Tightening Specifications

2.7 Catch, Removing and Installing

Special tools and workshop equipment required

- ♦ Torque Wrench 1331 5-50Nm - VAG1331-



Removing

- Remove the rear lid lock trim. Refer to ➤ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels .
- Remove the hex nuts -2- and remove the striker pin -1- from the lock carrier.

Installing

- Remove the striker pin -1- with the hex nuts -2- from the lock carrier.
- Adjust the catch ➤ [“2.3 Rear Lid, Adjusting”, page 57](#) .

Tightening Specifications

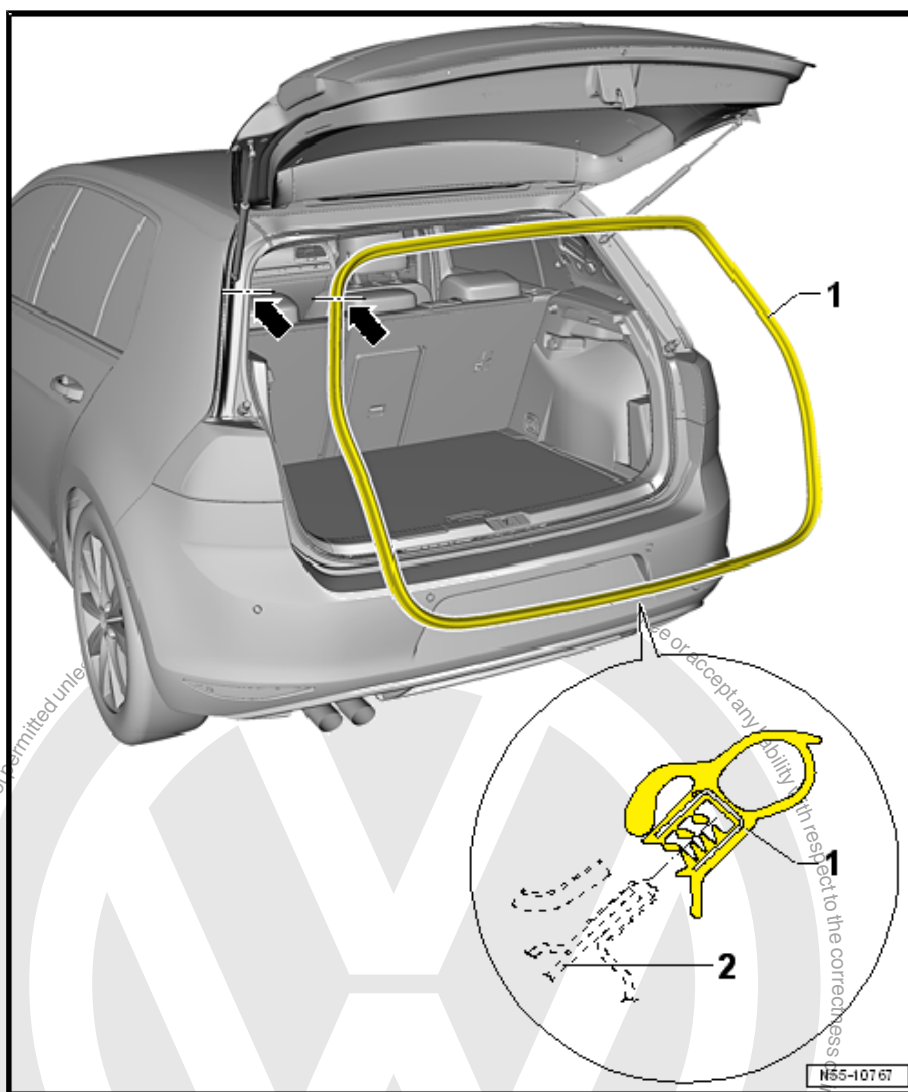
2.8 Rear Lid Seal, Removing and Installing

The seal on the rear lid is equipped at the factory with a sealant, applied to body flange and then rolled on.



Note

- ◆ *When the seal is removed the sealant spreads on the inner side of the seal and the sides bend up slightly. If the seal is being installed again, the sealing performance and proper seating are no longer guaranteed.*
- ◆ *For this reason, every seal, that has been removed completely, must be replaced with a "hammer-stroke seal".*
- ◆ *For partially removed seals, seal flanks must be pressed together before installation.*



Removing

- Remove the seal -1- from the body flange -2-.

Installing

- Align the seal -1- with the vulcanized point to the gas-filled strut assembly -arrows-.
- Press in the seal -1- by hand evenly on the body flange.



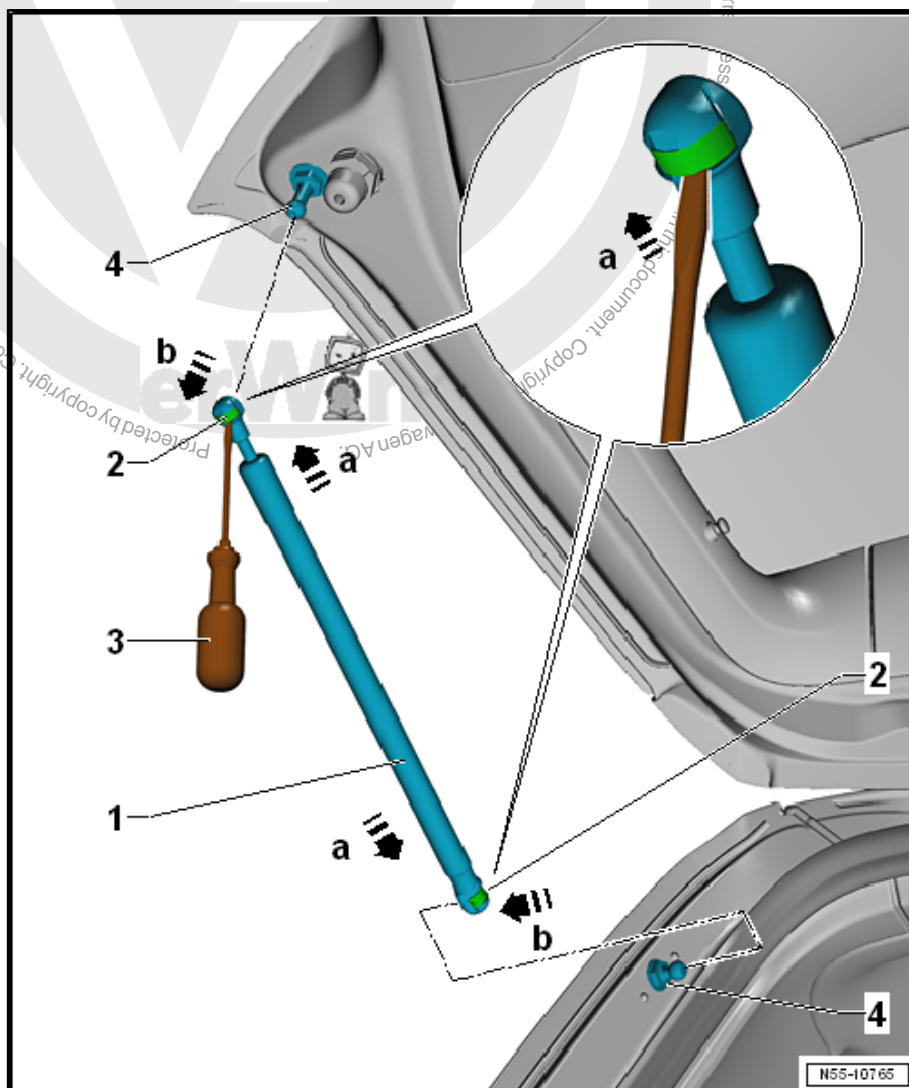
2.9 Gas-Filled Strut, Removing and Installing

Removing



Note

The rear lid must be supported when removing a gas-filled strut. One gas-filled strut alone cannot hold the rear lid open.



- Open the rear lid and support it.



WARNING

Proceed carefully when re-using gas-filled strut. Spring clips must not be pried completely out of ball socket, otherwise they will be damaged. The gas strut will jump out of the mount and be damaged or injure the technician.

- Insert a small screwdriver -3- under the spring clips -2-.

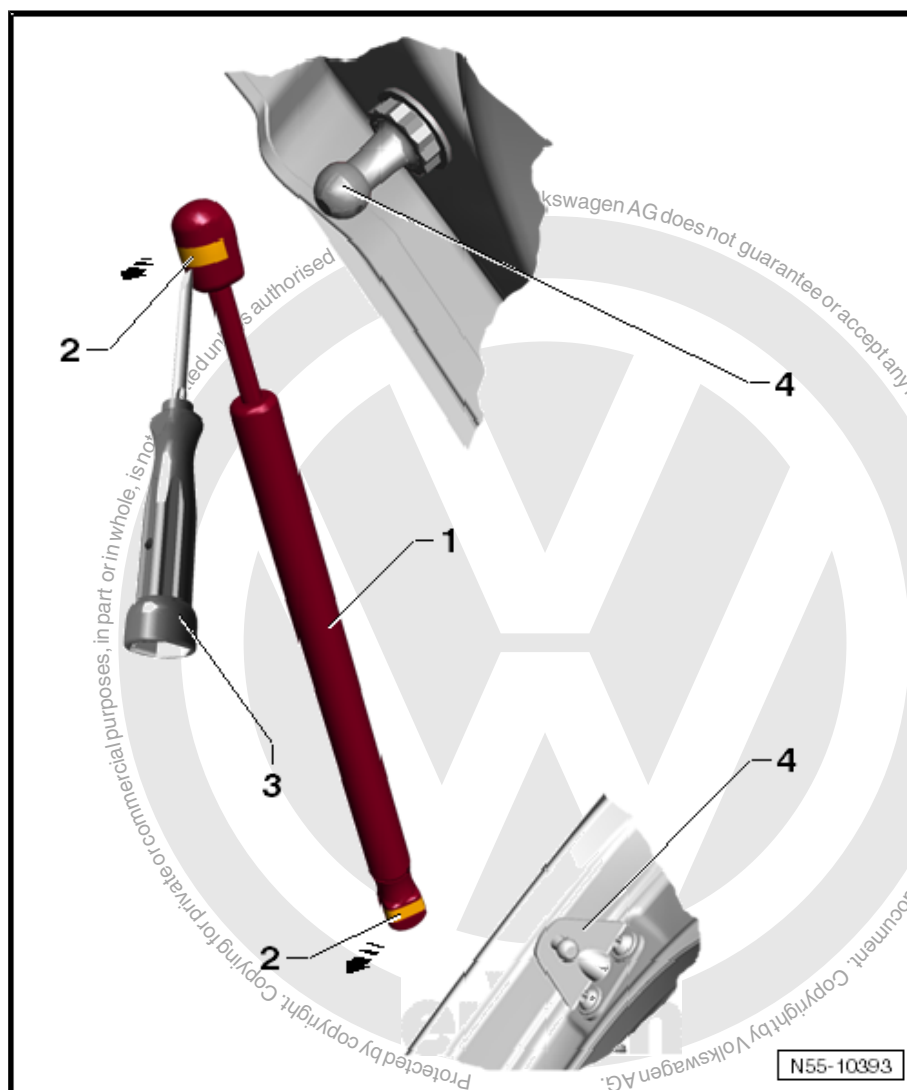


- Lift the spring clips -2- just far enough -a arrows- to make it possible to slide them over the ball sockets.
- Remove the gas-filled strut -1- from the ball stud -4- -b arrows-.

Slide the spring clips -2- back on immediately after removing the gas-filled strut.

- The gas inside the gas-filled strut must be removed for disposing. Refer to
⇒ ["2.10 Gas-Filled Strut, Releasing Gas", page 75](#) .

Installing



- Push the ball socket -1- onto the ball stud -4- until it clicks.



Tightening Specifications

2.10 Gas-Filled Strut, Releasing Gas

- Clamp area -x- of the gas strut in the vise, area -x- = 50 mm.



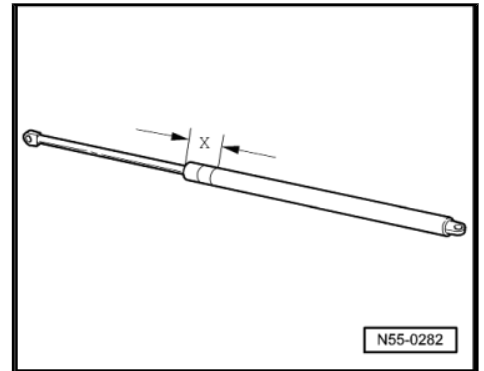
WARNING

Wear protective eyewear when sawing.

Cover the area of the saw cut with a clean rag.

Dispose of oil and cloth via existing disposal channels.

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





3 Fuel Filler Door Unit

⇒ [“3.1 Overview - Fuel Filler Door Unit”, page 76](#)

⇒ [“3.2 Overview - Fuel Filler Door Unit, e-Golf”, page 77](#)

⇒ [“3.3 Fuel Filler Door Unit, Removing and Installing”, page 77](#)

⇒ [“3.4 Fuel Filler Door Unit, Removing and Installing, e-Golf”, page 79](#)

⇒ [“3.5 Fuel Filler Door, Removing and Installing”, page 83](#)

⇒ [“3.6 Adjusting Element, Removing and Installing”, page 84](#)

3.1 Overview - Fuel Filler Door Unit

1 - Fuel Filler Door

- Removing and installing. Refer to
⇒ [“3.3 Fuel Filler Door Unit, Removing and Installing”, page 77](#).

2 - Fuel Filler Door Unit

- Removing and installing. Refer to
⇒ [“3.3 Fuel Filler Door Unit, Removing and Installing”, page 77](#).

3 - Water Drain Hose

- Routed between the wheel housing and the wheel housing liner

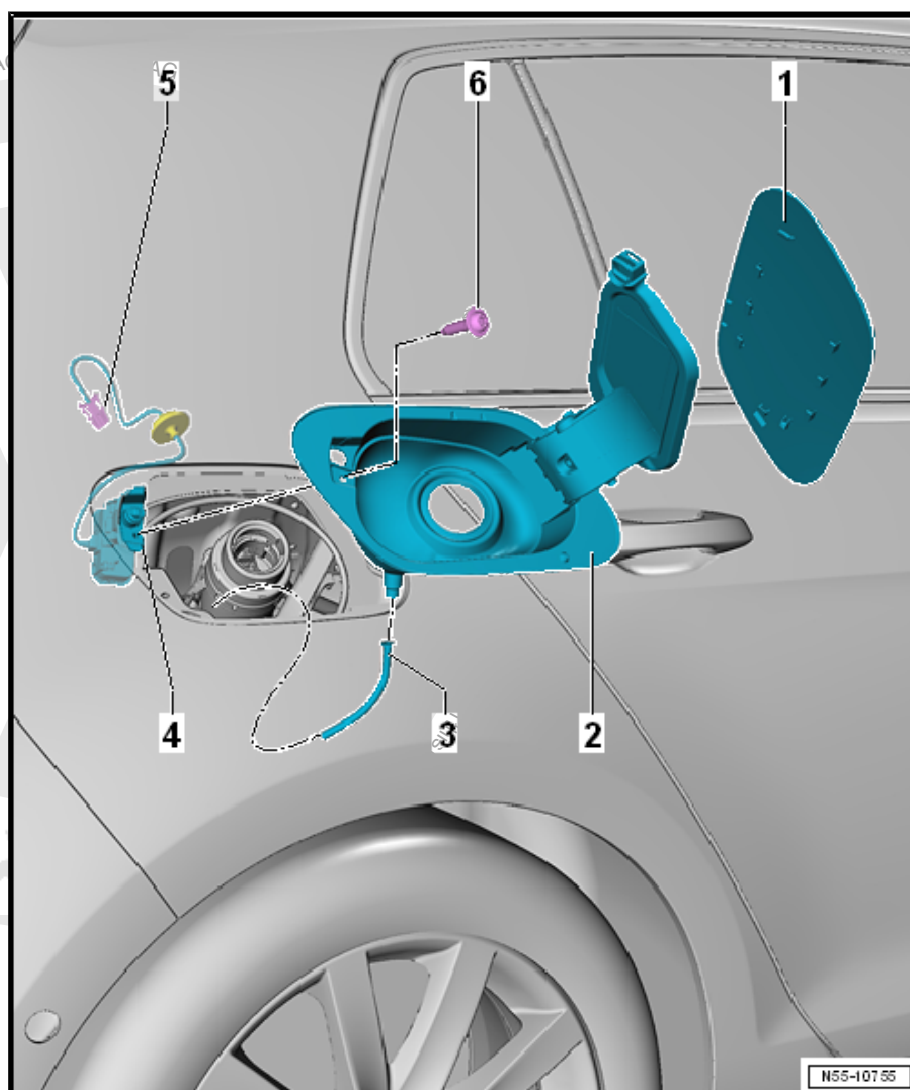
4 - Adjusting Element

- Removing and installing. Refer to
⇒ [“3.6 Adjusting Element, Removing and Installing”, page 84](#).

5 - Connector

6 - Bolt

- 1.5 Nm





3.2 Overview - Fuel Filler Door Unit, e-Golf

1 - Fuel Filler Door

- Removing and installing. Refer to
⇒ [“3.4 Fuel Filler Door Unit, Removing and Installing, e-Golf”, page 79](#) .

2 - Fuel Filler Door Unit

- Removing and installing. Refer to
⇒ [“3.4 Fuel Filler Door Unit, Removing and Installing, e-Golf”, page 79](#)

3 - Bolt

- 1.5 Nm

4 - Immediate Charging Button - E766-

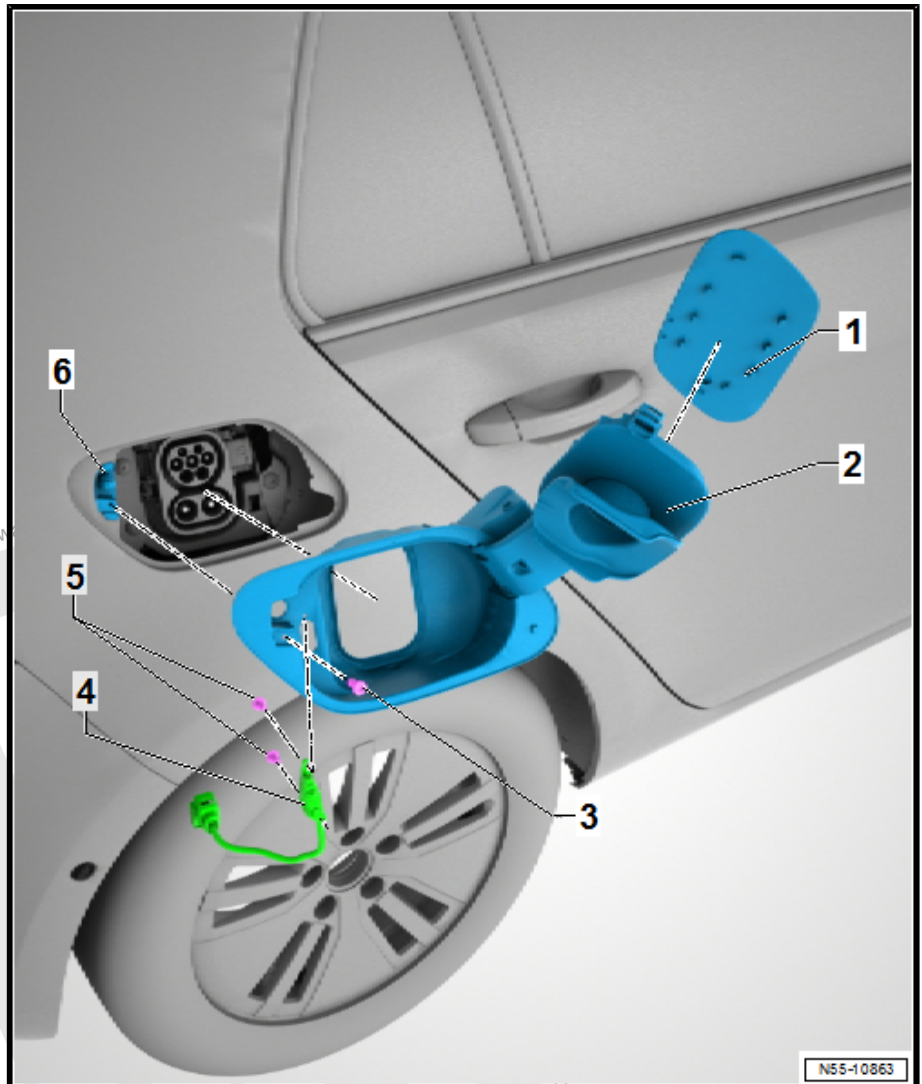
- Removing and installing. Refer to ⇒ Electric Drive; Rep. Gr. 93 ; Charging Socket; Immediate Upload Button E766, Removing and Installing

5 - Bolt

- 1.5 Nm

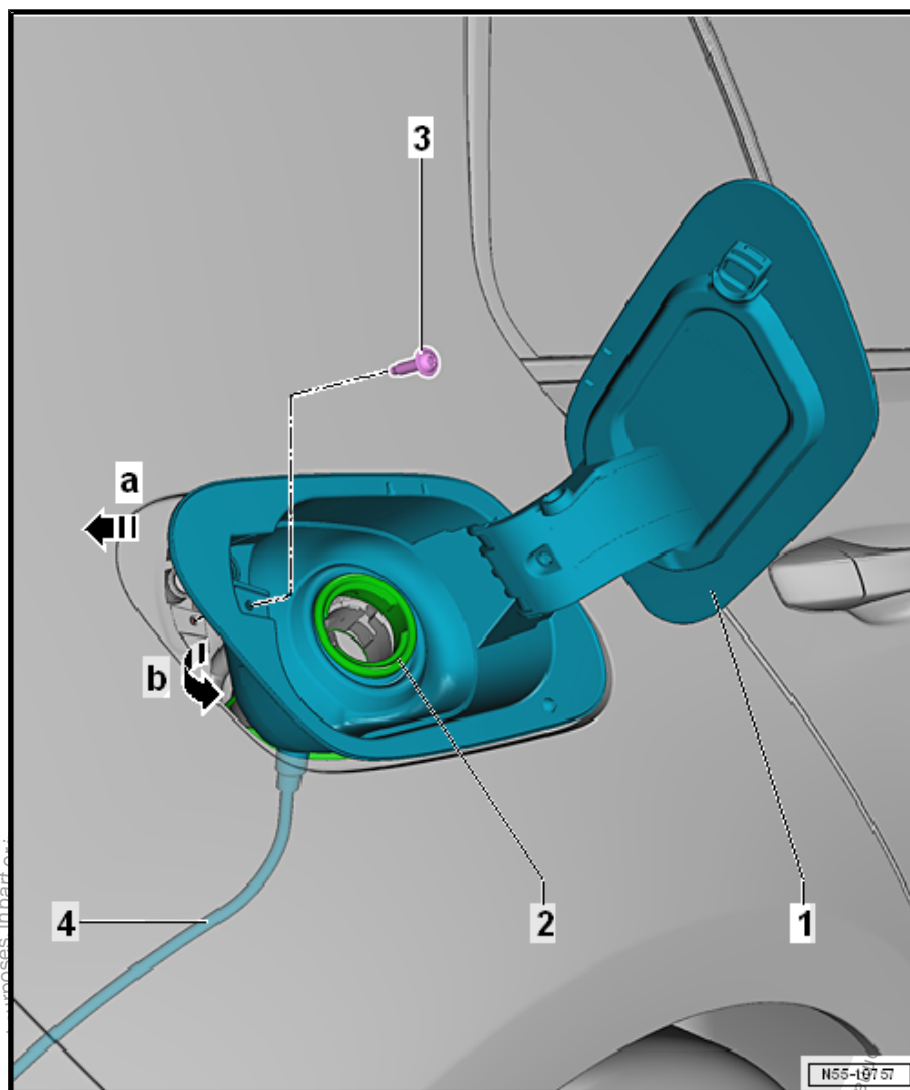
6 - Adjusting Element

- Removing and installing. Refer to
⇒ [“3.6 Adjusting Element, Removing and Installing”, page 84](#) .



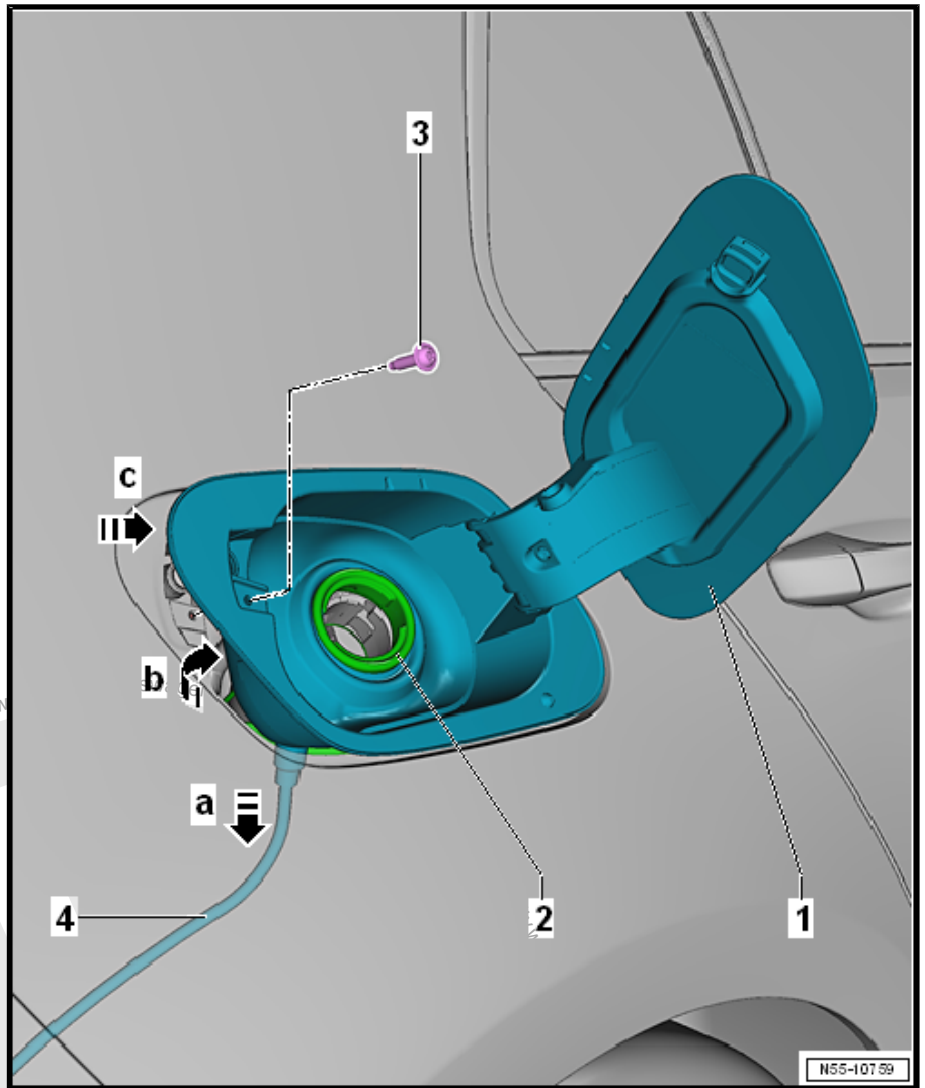
3.3 Fuel Filler Door Unit, Removing and Installing

Removing



- Remove the fuel cap.
- Remove the bolt -3-.
- Remove the fuel filler door unit slightly rearward -arrow a- from the catches.
- Tilt the fuel filler door unit -1- out of the side panel -arrow b-.
- At the same time guide out the water drain hose -4- out of the side panel.

Installing

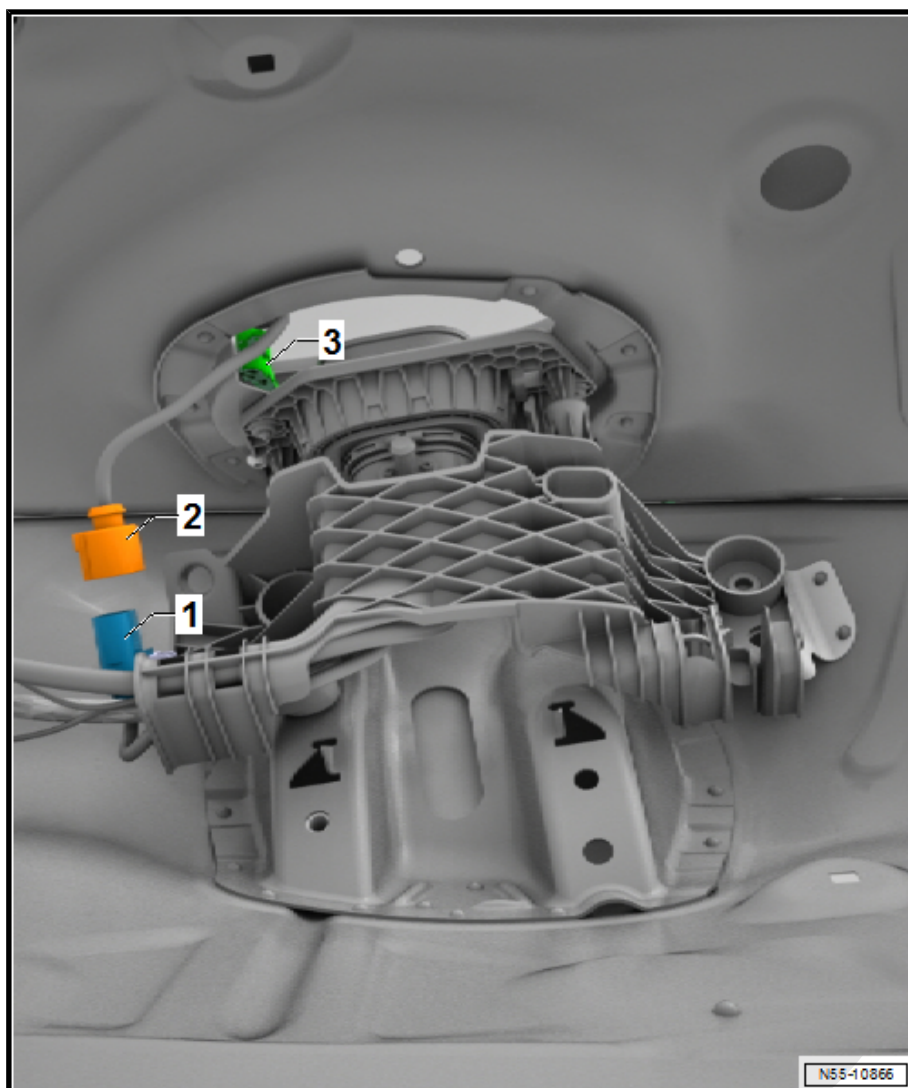


- Insert the water drain hose -4- through the opening in the fuel filler door unit -1- and then pull it all the way through.
- Push the water drain hose -4- in the side panel -arrow a-.
- Pivot the fuel filler door unit -1- in the side panel -arrow b- and pull the boot over the filler neck -2-.
- Push the fuel filler door unit completely in the side panel -arrow c-.

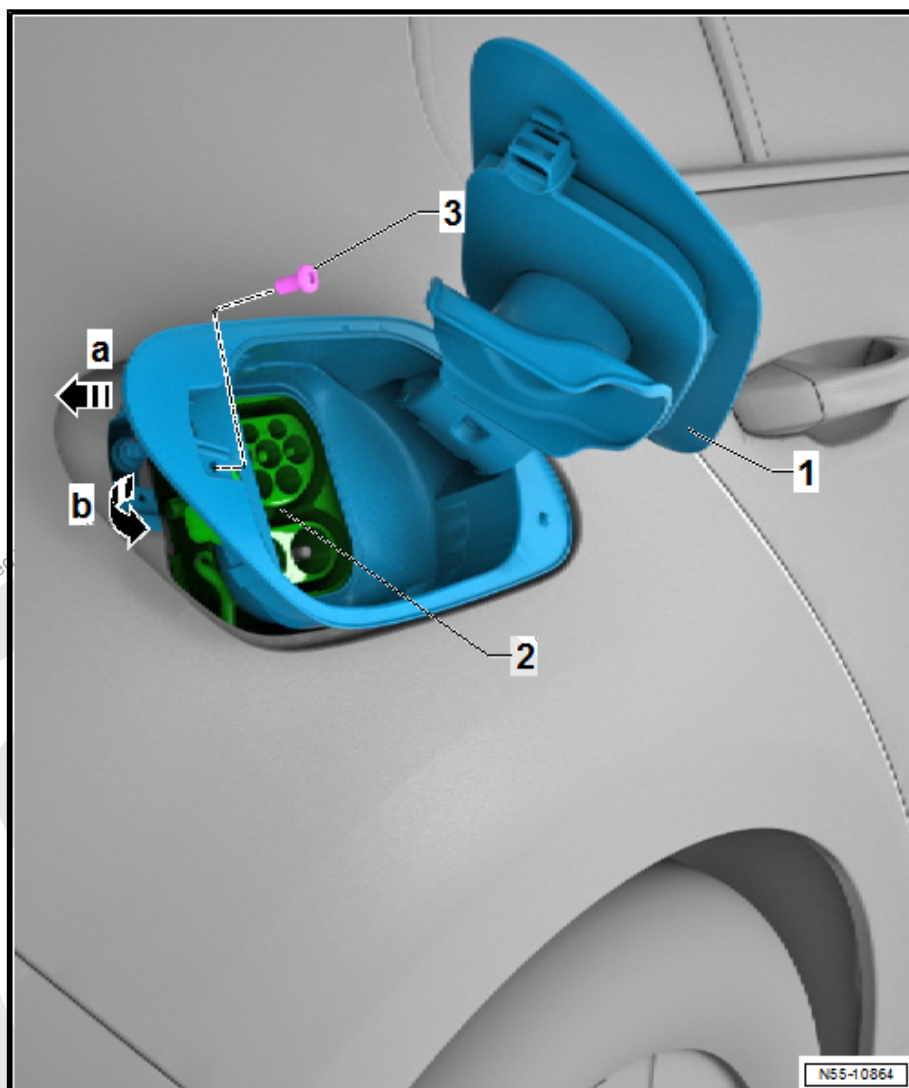
Tightening Specifications

3.4 Fuel Filler Door Unit, Removing and Installing, e-Golf

Removing

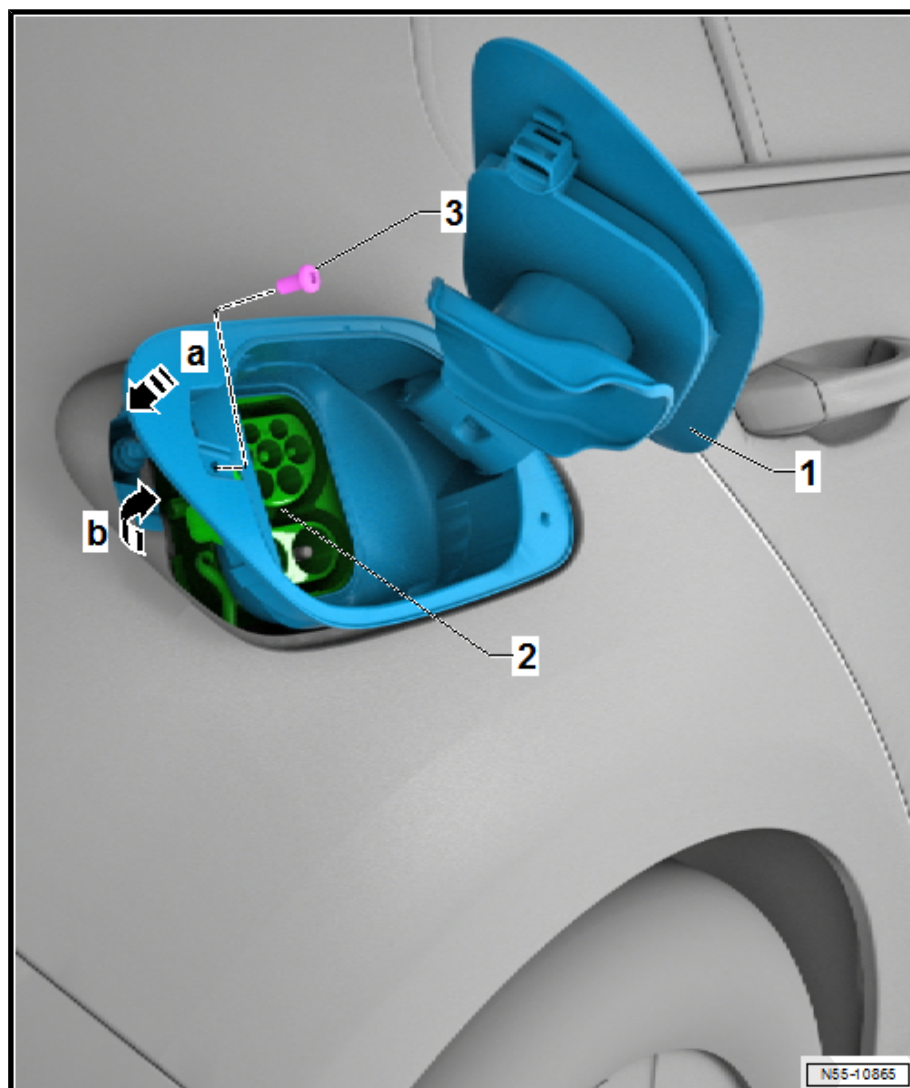


- Remove the wheel housing liner. Refer to
⇒ [“7.4 Rear Wheel Housing Liner, Removing and Installing”,
page 384](#) .
- Disconnect the connector -2- for the switch -3-.



- Remove the bolt -3-.
- Remove the fuel filler door unit slightly rearward -arrow a- from the catches.
- Tilt the fuel filler door unit -1- out of the side panel -arrow b-.

Installing

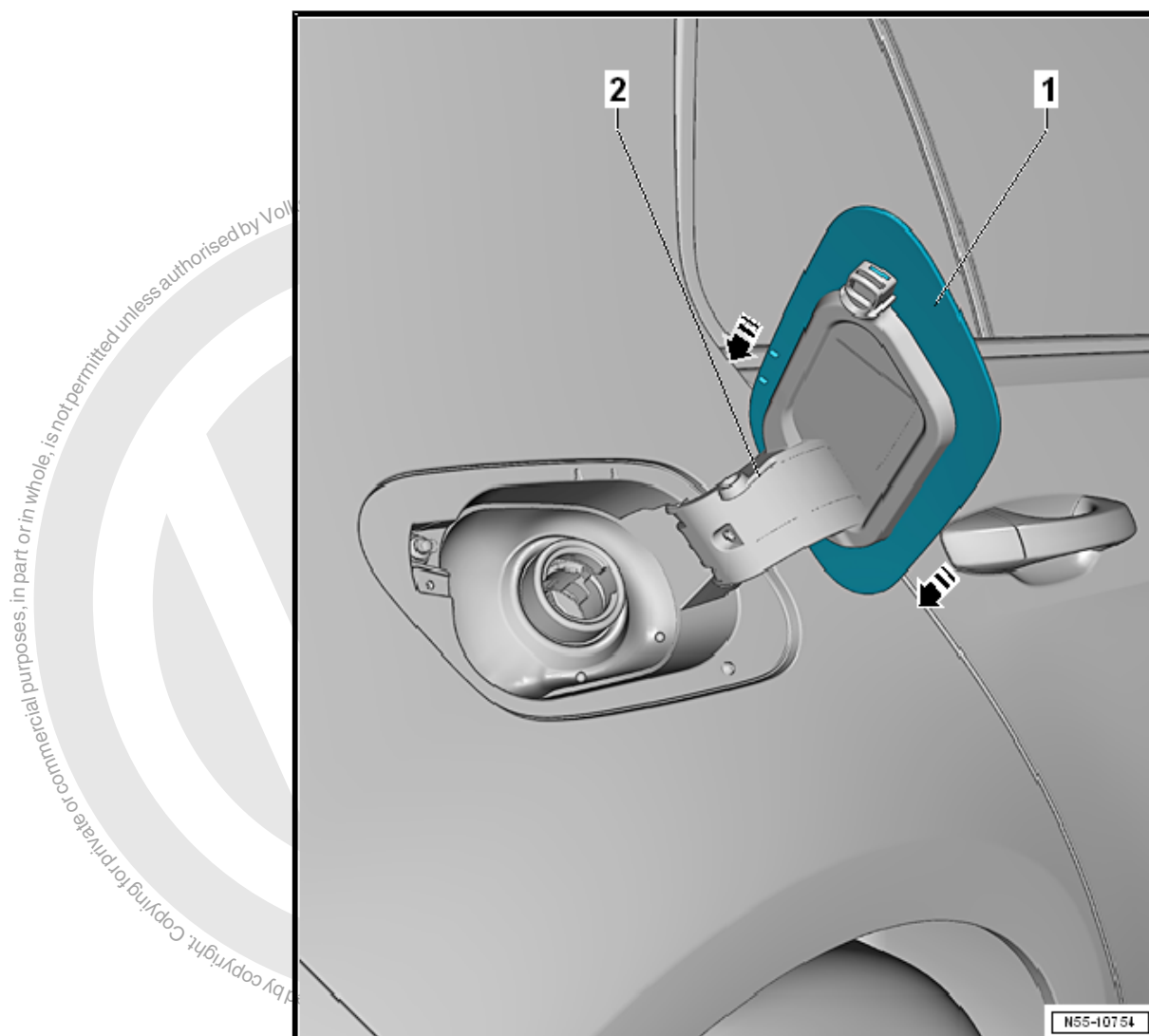


- Push the switch wire in the side panel and connect.
- Pivot the fuel filler door unit -1- in the side panel -arrow b-.
- Push the fuel filler door unit completely in the side panel -arrow a-.
- Tighten the bolt.



Tightening Specifications

3.5 Fuel Filler Door, Removing and Installing



Removing

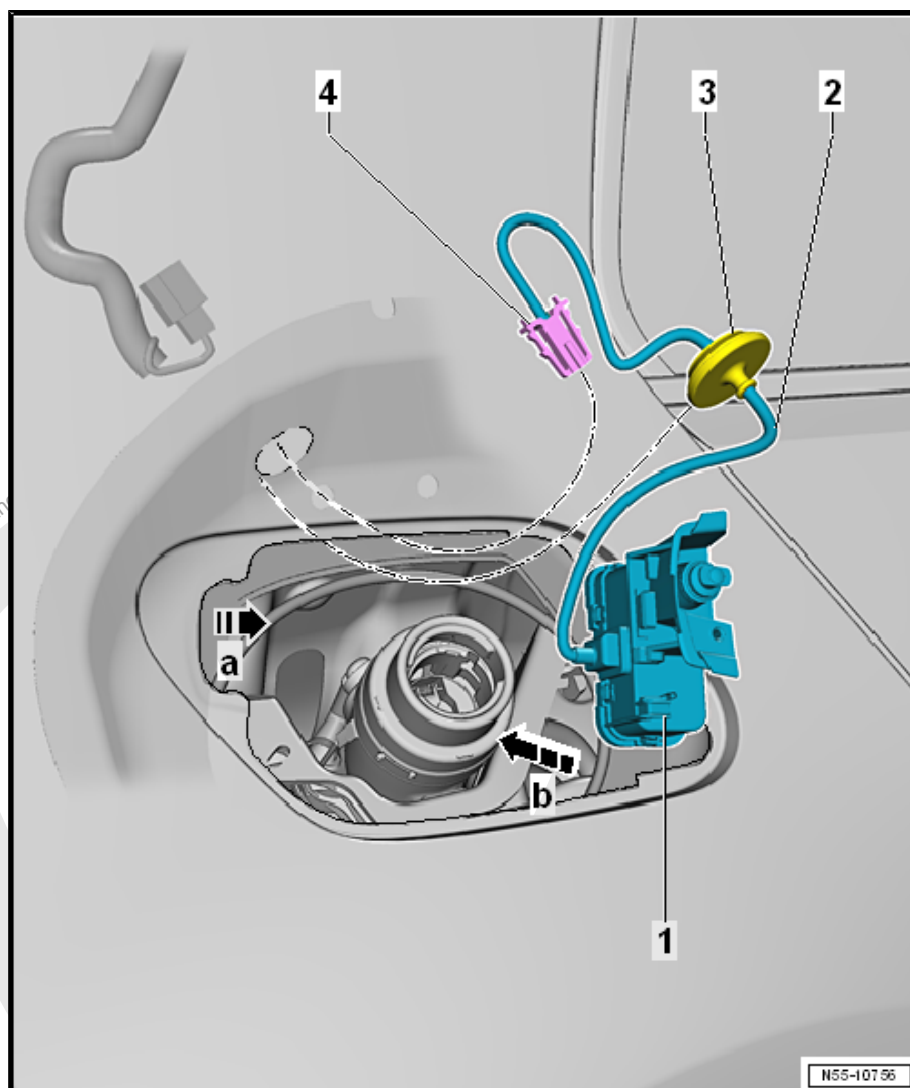
- Push the fuel filler door -1- from the fuel filler door unit -2- catches -arrows-.
- Remove the fuel filler door.

Installing

- Place the fuel filler door -1- on the fuel filler door unit -2-.
- Push the fuel filler door in the fuel filler door unit catches.



3.6 Adjusting Element, Removing and Installing



Removing

- Remove the fuel filler door unit. Refer to ➔ [“3.3 Fuel Filler Door Unit, Removing and Installing”, page 77](#).
- To reach the connector remove the right luggage compartment side trim panel. Refer to ➔ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Luggage Compartment Side Trim Panel, Removing and Installing .
- Disconnect the connector -4-.
- Pull the adjusting element -1- from the side panel -arrow a-.

Installing

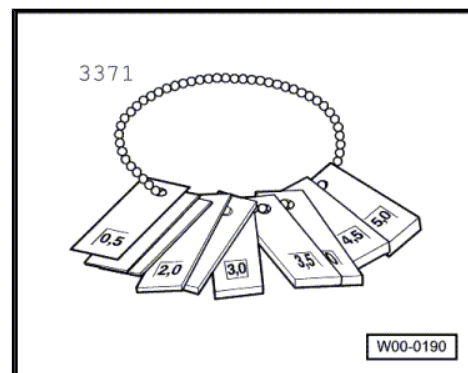
- Assemble the connector -4-.
- Install the grommet -3- in the side panel.
- Push the adjusting element -1- in the side panel -arrow b-.



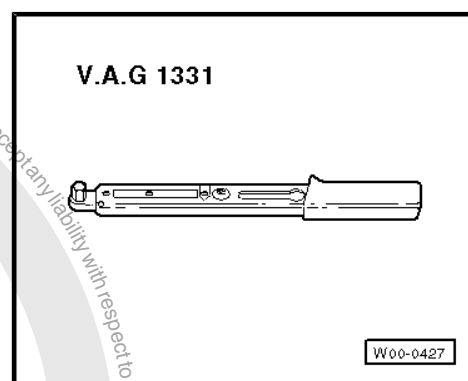
4 Special Tools

Special tools and workshop equipment required

- ◆ Gauge - Gap Adjustment - 3371-



- ◆ Torque Wrench 1331 5-50Nm - VAG1331-





57 – Front Doors, Central Locking System

1 Door

⇒ [“1.1 Overview - Door”, page 86](#)

⇒ [“1.2 Inner Door Seal, Removing and Installing”, page 89](#)

⇒ [“1.3 Outer Door Seal, Removing and Installing”, page 92](#)

⇒ [“1.4 Door, Removing and Installing”, page 93](#)

⇒ [“1.5 Door, Adjusting”, page 96](#)

⇒ [“1.6 Catch, Adjusting”, page 98](#)

⇒ [“1.7 Door Arrester, Removing and Installing”, page 100](#)

1.1 Overview - Door



Note

- ◆ *The illustration shows the left side. The right side is identical.*
- ◆ *After replacing the A-pillar the bolts -2 and 5- as well as -14 and 17- are to be tightened to another tightening specification.*





1 - Front Door

- ☐ Removing and installing. Refer to
⇒ "1.4 Door, Removing and Installing",
page 93 .
- ☐ Adjusting. Refer to
⇒ "1.5 Door, Adjusting",
page 96 .

2 - Bolt

- ☐ 50 Nm
- ☐ Loosening one time to adjust the door is permissible, after further loosening replace.



Note

- ◆ After replacing the A-pillar, the other tightening specification must be observed.
- ◆ Tightening specification after replacing the A-pillars: 90°

3 - Door Hinge

- ☐ Hinge is divided The upper and lower section can be replaced separately if necessary.
- ☐ A bolt -8- attaches the lower section to the upper section.

4 - Cap

- ☐ For the bolt -8-
- ☐ Is not installed in all markets.

5 - Bolt

- ☐ 50 Nm
- ☐ Installed from the inside of the vehicle
- ☐ Loosening one time to adjust the door is permissible, after further loosening replace.
- ☐ The instrument panel is not removed for loosening and tightening.
- ☐ The instrument panel must be removed. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Instrument Panel; Instrument Panel, Removing and Installing .

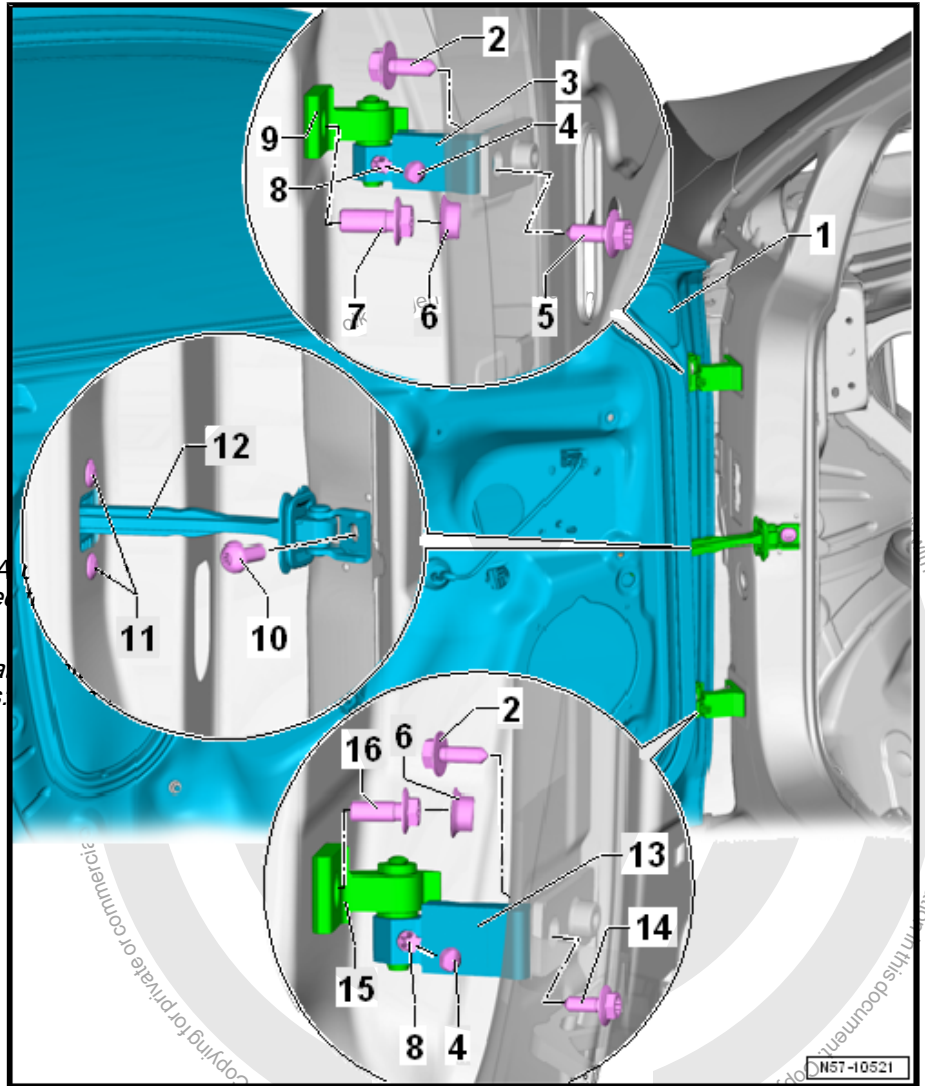


Note

- ◆ After replacing the A-pillar, the other tightening specification must be observed.
- ◆ Tightening specification after replacing the A-pillars: 20 Nm + 90°

6 - Cap

- ☐ For bolts -7 and 16-
- ☐ Is not installed in all markets.





7 - Bolt

- ☐ 50 Nm
- ☐ Loosening one time to adjust the door is permissible, after further loosening replace.

8 - Bolt

- ☐ 23 Nm
- ☐ Attaches the upper section -3- to the lower section -6-

9 - Door Hinge

- ☐ The hinge has two sections. The upper and lower section can be replaced separately if necessary.
- ☐ A bolt -5- attaches the upper section to the lower section.

10 - Bolt

- ☐ 30 Nm

11 - Bolt

- ☐ 9 Nm
- ☐ Quantity: 2

12 - Door Arrester

- ☐ Removing and installing. Refer to ⇒ ["1.7 Door Arrester, Removing and Installing", page 100](#) .

13 - Door Hinge

- ☐ The hinge has two sections. The upper and lower section can be replaced separately if necessary.
- ☐ A bolt -8- attaches the lower section to the upper section.

14 - Bolt

- ☐ 50 Nm
- ☐ Installed from the inside of the vehicle
- ☐ Loosening one time to adjust the door is permissible, after further loosening replace.
- ☐ It is necessary to remove the A-pillar lower trim. Refer to ⇒ Body Interior; Rep. Gr. 70; Passenger Compartment Trim; A-Pillar Gap Cover, Removing and Installing .



Note

- ◆ *After replacing the A-pillar, the other tightening specification must be observed.*
- ◆ *Tightening specification after replacing the A-pillars: 20 Nm + 90°*

15 - Door Hinge

- ☐ The hinge has two sections. The upper and lower section can be replaced separately if necessary.
- ☐ A bolt -16- attaches the upper section to the lower section.

16 - Bolt

- ☐ 50 Nm
- ☐ Loosening one time to adjust the door is permissible, after further loosening replace.

17 - Bolt

- ☐ 50 Nm
- ☐ Loosening one time to adjust the door is permissible, after further loosening replace.



Note

- ◆ *After replacing the A-pillar, the other tightening specification must be observed.*



- ◆ *Tightening specification after replacing the A-pillars: 20 Nm + 90°*

1.2 Inner Door Seal, Removing and Installing

The inner door seals are equipped at the factory with sealant, applied to the door flange and then rolled on.

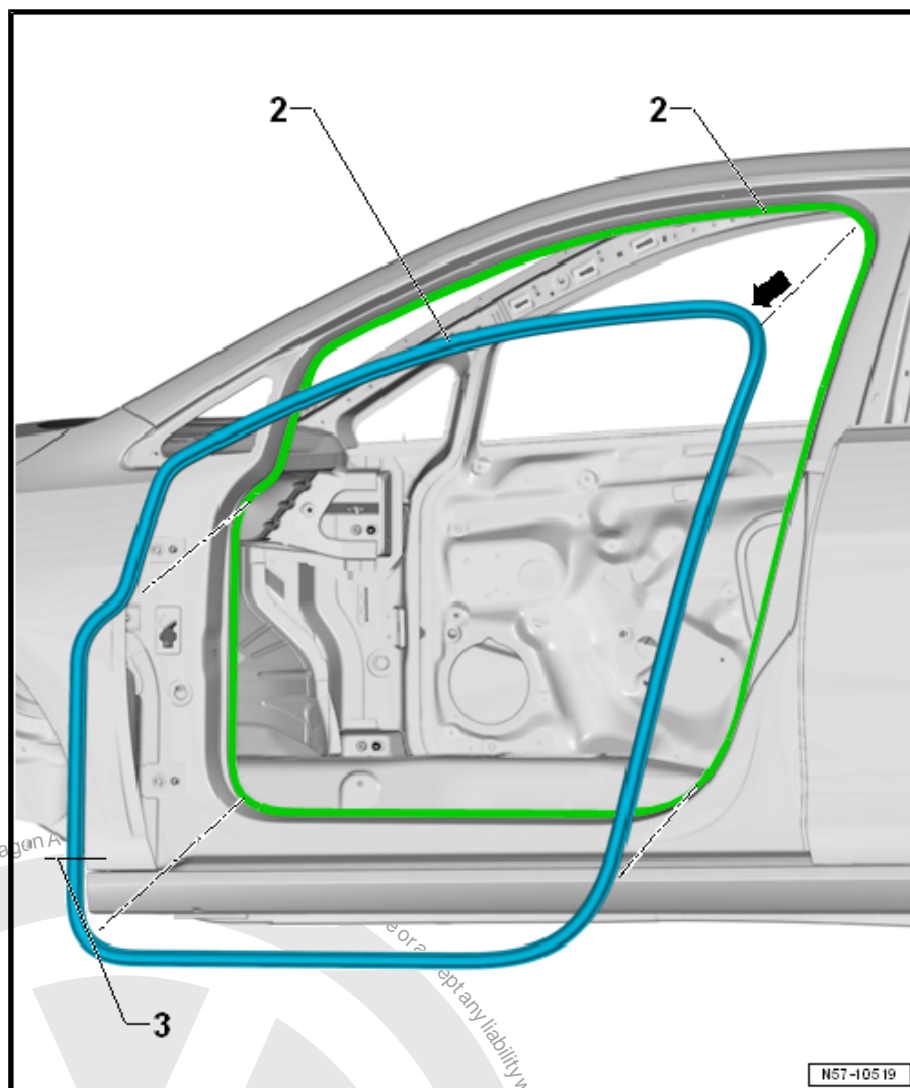


Note

- ◆ *The sealant on the inside will spread when the seal is removed. The sides will bend up slightly. If the seal is being installed again, the sealing performance and proper seating are no longer guaranteed.*
- ◆ *For this reason, every seal that has been removed completely must be replaced with a "hammer-stroke seal".*
- ◆ *For partially removed seals, seal flanks must be pressed together before installation.*
- ◆ *Removing and installing is described only for the left inner door seal. The right side is identical.*
- ◆ *The front door is not shown.*

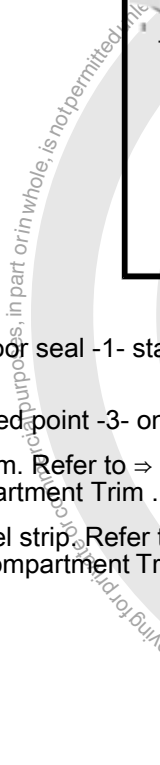
Removing





- Remove the sill panel strip. Refer to ➤ Body Interior; Rep. Gr. 70 ; Passenger Compartment Trim; Sill Panel Strip, Removing and Installing .
- It is necessary to remove the necessary pillar trim in order to remove the inner door seal. Refer to ➤ Body Interior; Rep. Gr. 70 ; Passenger Compartment Trim; Component Location Overview - Passenger Compartment Trim .
- Remove the inner door seal -1- from the flange -2-.

Installing



- 

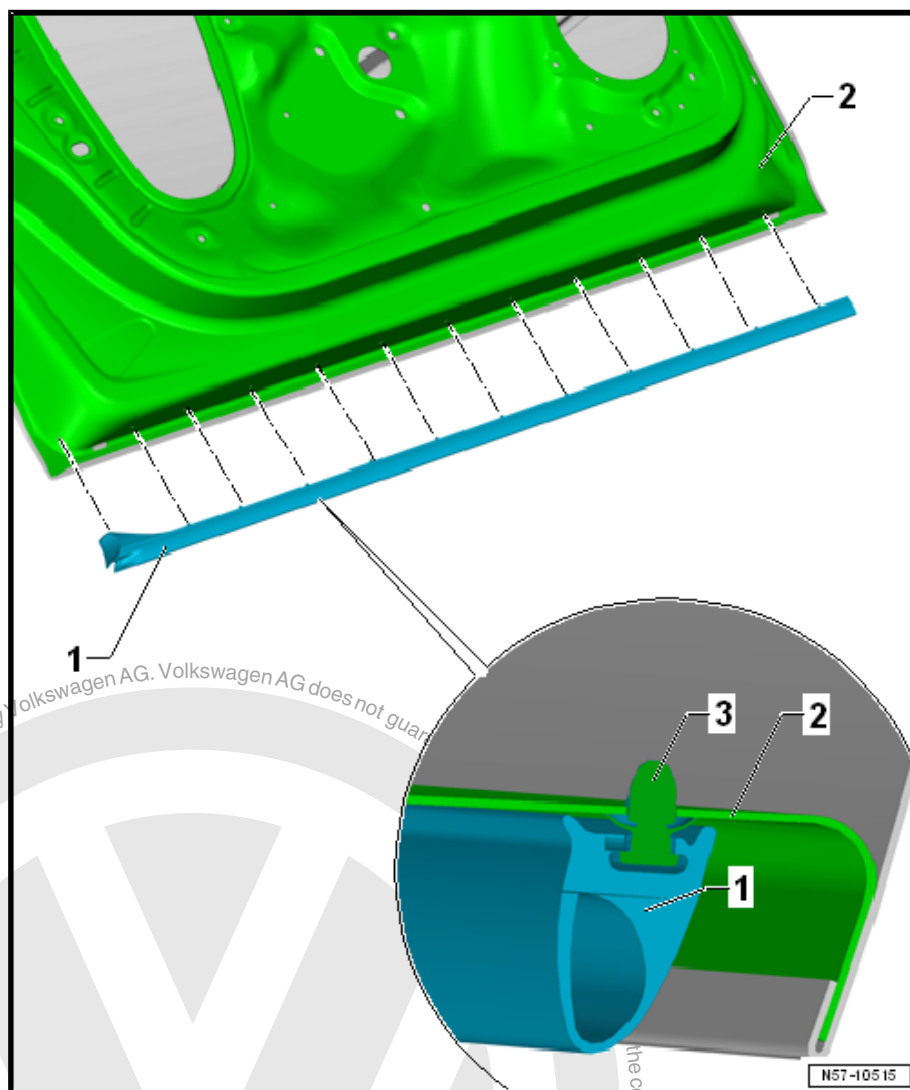


1.3 Outer Door Seal, Removing and Installing

⇒ ["1.3.1 Outer Door Seal, Removing and Installing, 4-Door Vehicle", page 92](#)

⇒ ["1.3.2 Outer Door Seal, Removing and Installing, 2-Door Vehicle", page 93](#)

1.3.1 Outer Door Seal, Removing and Installing, 4-Door Vehicle



Removing

- Remove the door seal -1- and clips -3- from the door -2-.

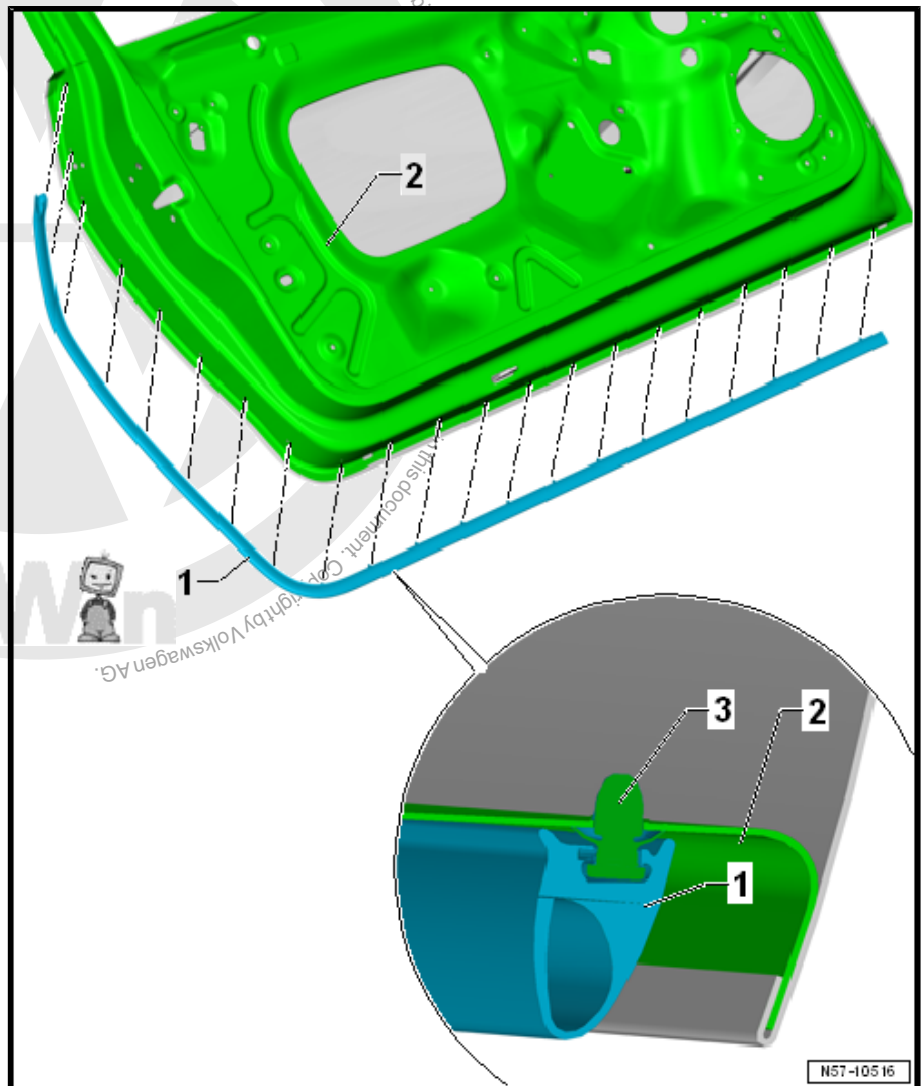
Installing

- Check the clips -3- for damage and if necessary replace.
- Press in the door seal -1- with the clips -3- on the door -2-.

The clips -2- must be pushed in until it stop.



1.3.2 Outer Door Seal, Removing and Installing, 2-Door Vehicle



Removing

- Remove the door seal -1- and clips -3- from the door -2-.

Installing

- Check the clips -3- for damage and if necessary replace.
- Press in the door seal -1- with the clips -3- on the door -2-.

The clips -2- must be pushed in until it stop.

1.4 Door, Removing and Installing

Special tools and workshop equipment required

- ◆ Wrench - Door Adjusting - 3320-
- ◆ Joint for 3320 Tool - 3320/1-
- ◆ Wrench - Door Adjusting - Box Wrench - 3320/2-
- ◆ Wrench - Door Adjusting - Box Wrench - 3320/3-
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-
- ◆ Cylinder Head Bolt Socket - 3410-



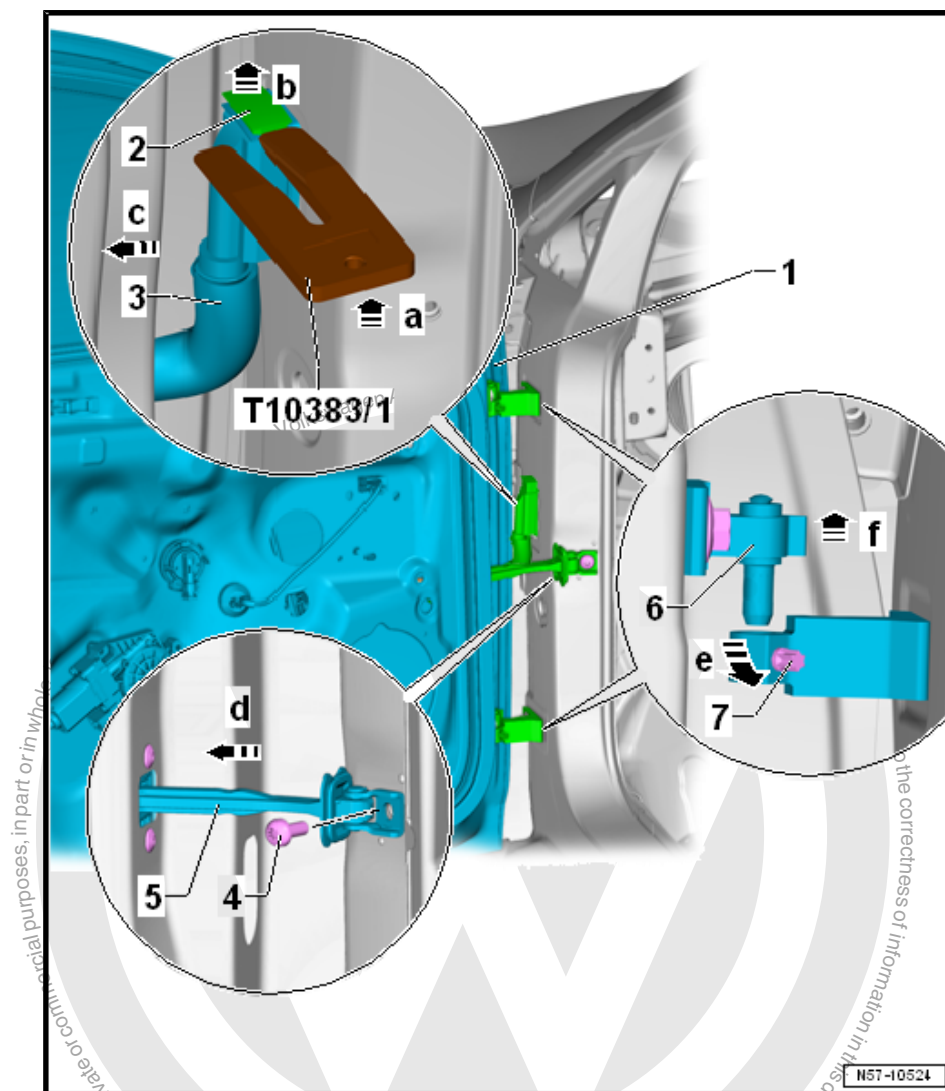
- ◆ Gauge - Gap Adjustment - 3371-
- ◆ Trim Removal Wedge - 3409-



Note

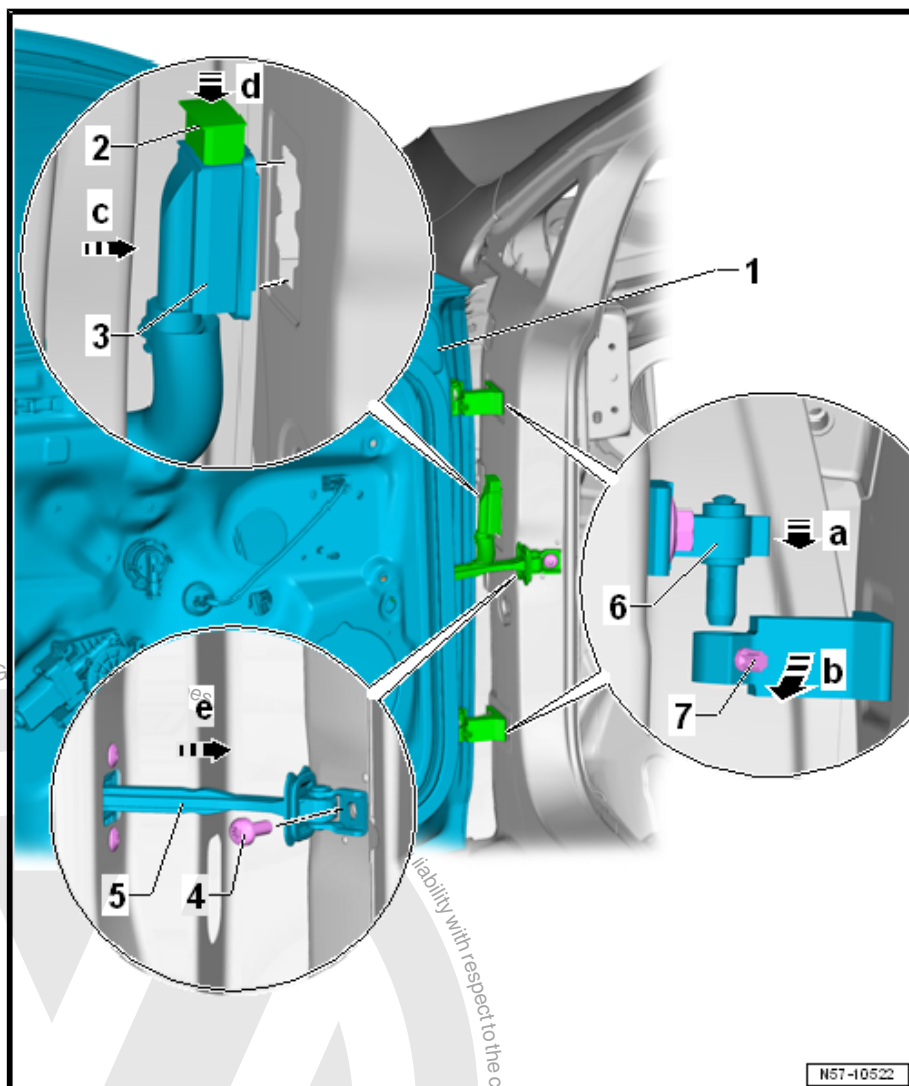
The following describes removing and installing the left front door only. Removing and installing the right front door is identical.

Removing



- Push the Wedge Set - T10383/1- between the boot -3- and the locking mechanism -arrow a-.
- Push the locking mechanism -2- with the Wedge Set - T10383/1- upward -arrow b- and disconnect the connector -3- from the connector station -arrow c-.
- Loosen the bolts -7- on the hinges.
- Remove the bolt -4- from the door strap -5-.
- Push the door arrester -6- inward -arrow d-.
- Lift the front door -1- with the hinges -6- upward -arrow f- out of the hinges -7-.

Installing



Install in reverse order of removal. While doing so pay attention to the following:



Caution

The door strap bracket must be folded in toward the inside of the vehicle (to prevent damaging the paint) before installing the front door.



Note

The hinge arms must be flush with each other after installing the front door.

- Adjust the front door -1-. Refer to [⇒ "1.5 Door, Adjusting", page 96](#).
- Pay attention the gap dimensions for the front door -1-. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .



Tightening Specifications

Door arrester and hinge. Refer to
⇒ ["1.1 Overview - Door", page 86](#) .

1.5 Door, Adjusting

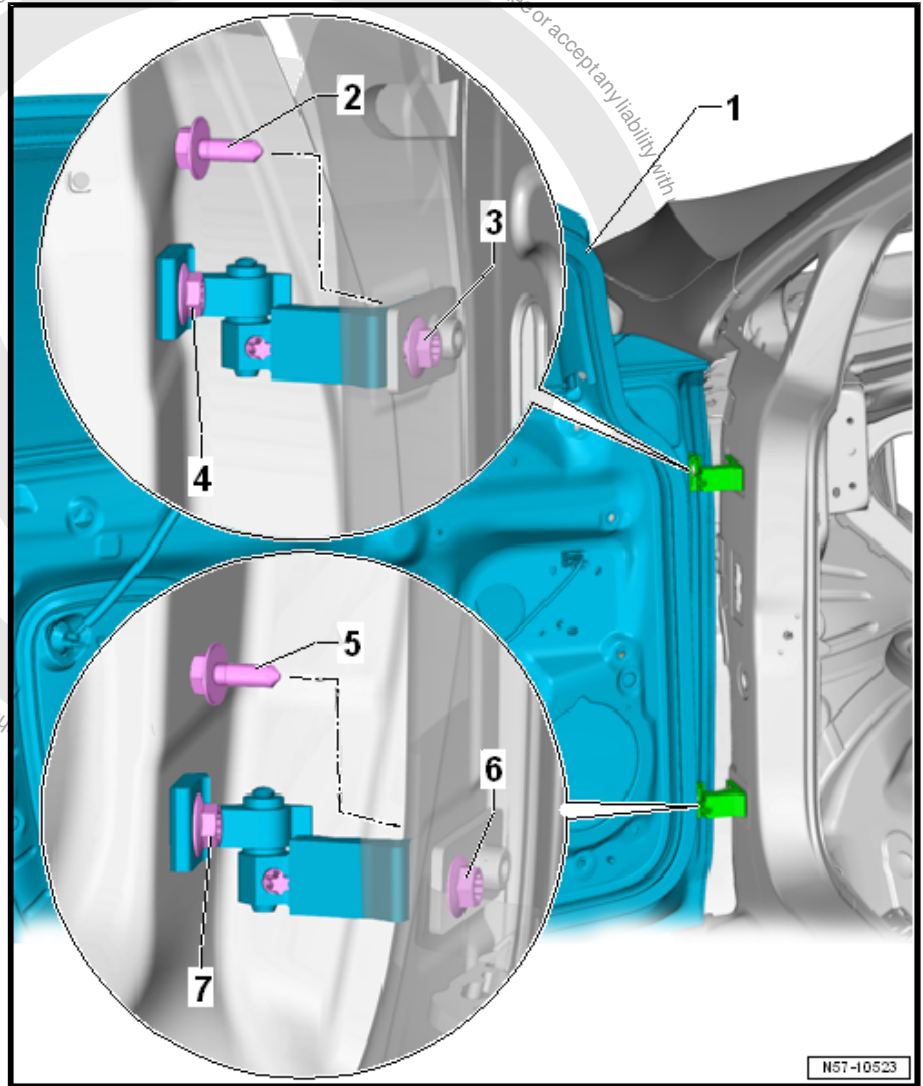
Special tools and workshop equipment required

- ◆ Wrench - Door Adjusting - 3320-
- ◆ Joint for 3320 Tool - 3320/1-
- ◆ Wrench - Door Adjusting - Box Wrench - 3320/2-
- ◆ Wrench - Door Adjusting - Box Wrench - 3320/3-
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-
- ◆ Cylinder Head Bolt Socket - 3410-
- ◆ Gauge - Gap Adjustment - 3371-
- ◆ Trim Removal Wedge - 3409-



Note

- ◆ *The adjustment is only for the left front door. The right front door adjustment is similar.*
- ◆ *The vehicle must be standing on its wheels in order to adjust the door.*
- ◆ *The front door is properly adjusted when there is an overall even gap dimension when closed. It is not too far inward or outward and contours align. The contours line up.*
- ◆ *Checking the gap dimensions. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .*
- ◆ *Apply corrosion protection to the hinges and bolts after assembling or adjusting.*



Adjusting the Gap Dimensions

For correct gap dimension adjustment, screws -2-, -3-, -6-, and -7- at the A-pillar must be loosened.

- For the bolt -3- loosen and lower the driver side fuse box. Refer to ⇒ Electrical Equipment; Rep. Gr. 97 ; Relay Carriers, Fuse Panels and E-Boxes; Relay and Fuse Panels Behind Instrument Panel, Removing and Installing .
- For the screw -3-, the glove compartment on the front passenger side must be removed. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Storage Compartments and Covers; Glove Compartment, Removing and Installing .
- Remove the A-pillar lower trim to access the bolt -6-. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Passenger Compartment Trim; A-Pillar Gap Cover, Removing and Installing .

Flush Adjustment

The bolts-5- and -9- must be loosened in order to correctly adjust the flush dimension.

For this, the Wrench - Door Adjusting - 3320- with the bit insert must be used.



Note

Other measures, such as aligning the door upward, are not effective. Pressure later will cause the front door to sag again.

Adjust the catch. Refer to [⇒ "1.6 Catch, Adjusting", page 98](#) .



Note

After replacing the A-pillar, the other tightening specification must be observed. Refer to [⇒ "1.1 Overview - Door", page 86](#) .

Tightening Specifications

Hinges. Refer to [⇒ "1.1 Overview - Door", page 86](#) .

1.6 Catch, Adjusting

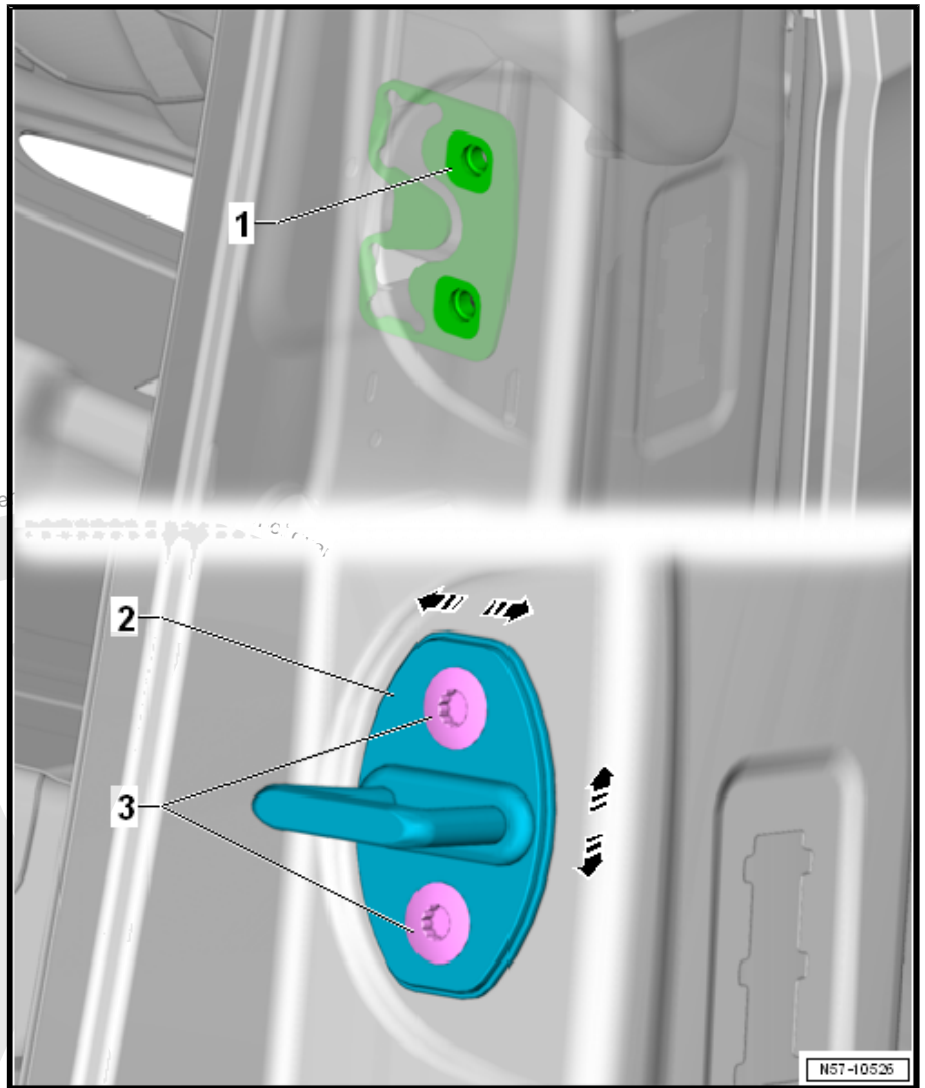
Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm - VAG1331-



Note

- ◆ *The threaded plate -1- of the striker pin in the column is secured differently than previously.*
- ◆ *The arch outside the threaded plate is welded to the column. The bars to the threaded plate are deformable.*
- ◆ *More force is needed to move the striker pin -2- when the bolts -3- are loose.*



Note

- ◆ The adjustment is only for the left front door. The right front door adjustment is similar.
- ◆ When closing, the front door must latch completely without having to press it and it must not have any play.
- ◆ The door must not be pushed up or down when adjusting the striker pin.

With the striker pin the alignment of the front door to the side panel or to the rear door can be adjusted -arrow a- and -arrow b- (wind noise).

- Loosen the bolts -3- on the B-pillar and loosen the striker pin -2-.



Note

More force is needed to move the striker pin -2- when the bolts -3- are loose.

- Tighten the bolts -3- on the striker pin -2-.



Tightening Specifications

Component	Tightening Specifications
Catch	20 Nm

1.7 Door Arrester, Removing and Installing

Special tools and workshop equipment required

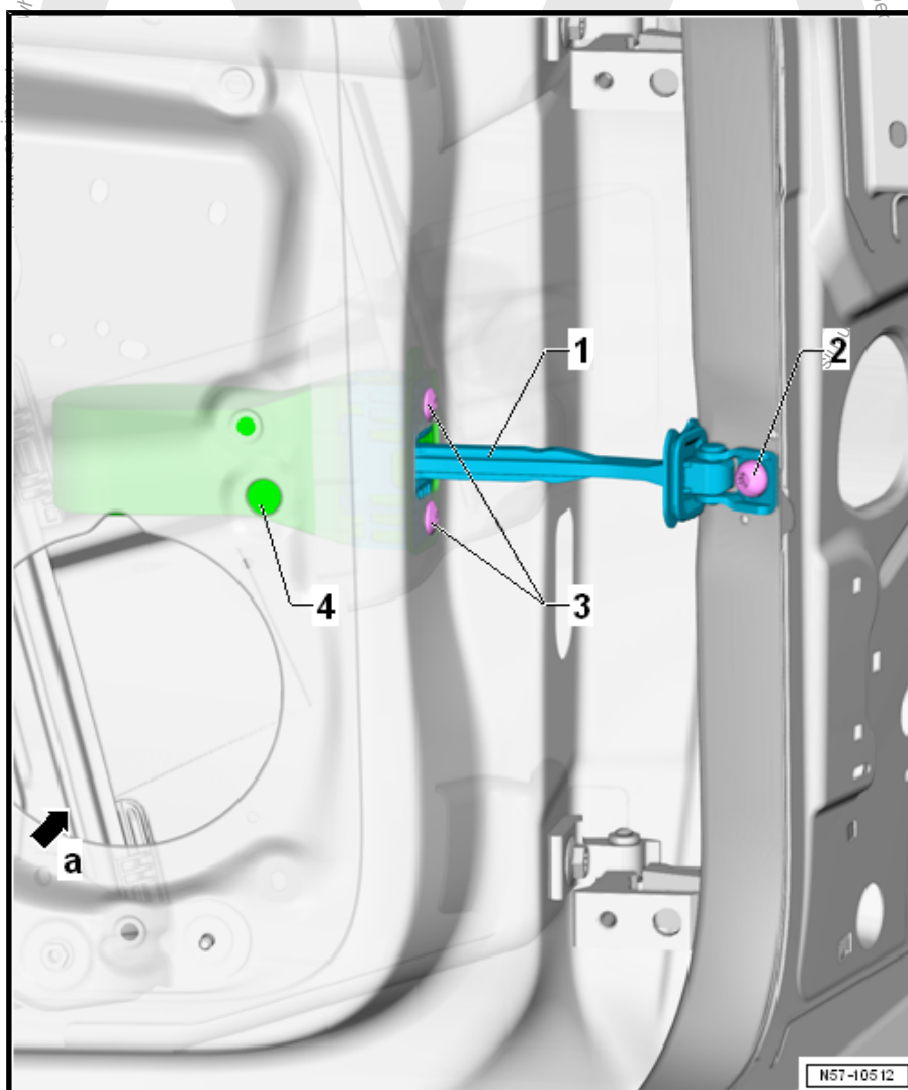
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-



Note

*The following describes removing and installing the door arrester.
The right side is identical.*

Removing

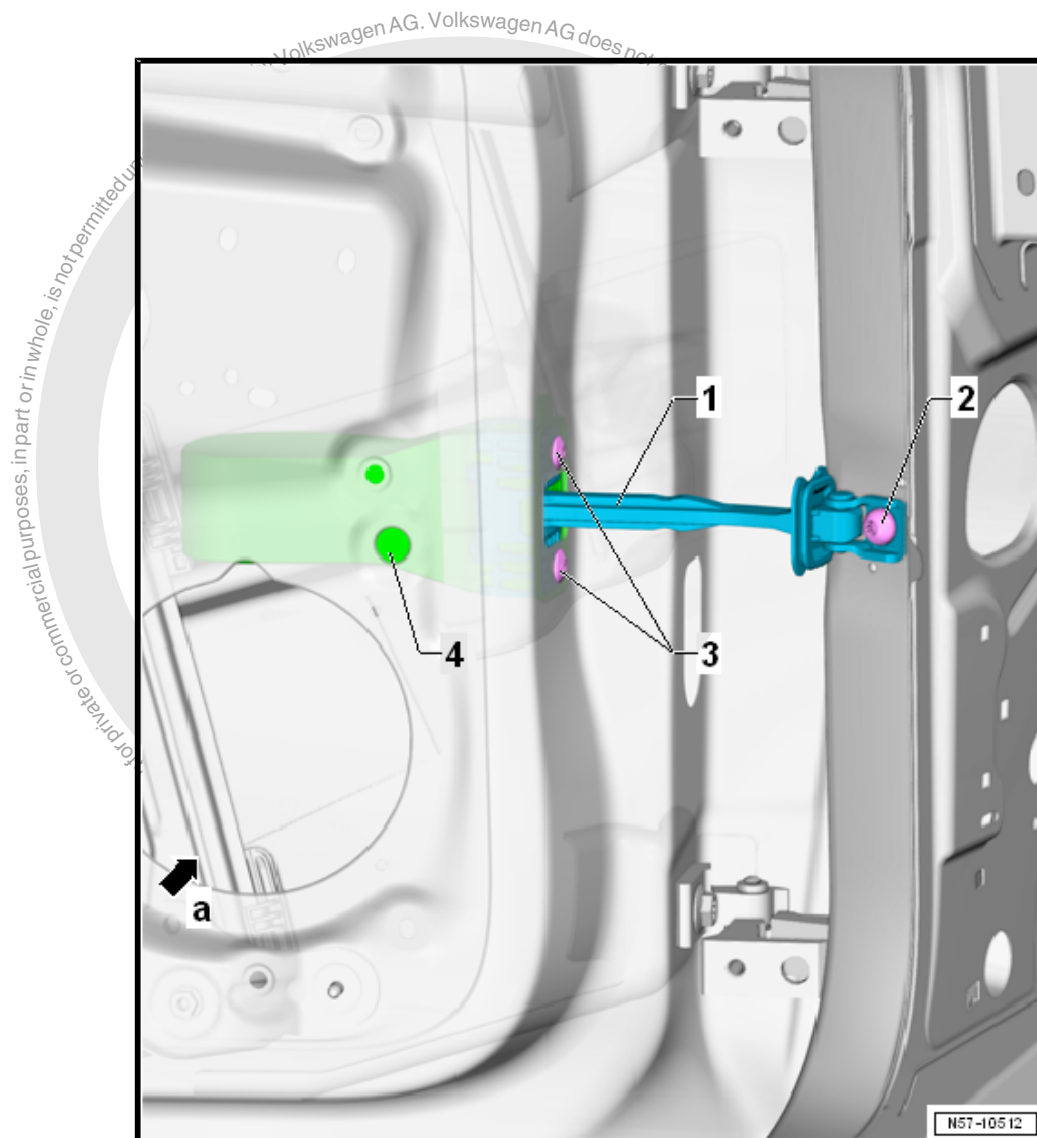


- Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Front Door Trim Panels; Front Door Trim Panel, Removing and Installing .



- Remove the self-adhesive cover, or front speaker. Refer to ⇒ Communication; Rep. Gr. 91 ; Sound System; Component Location Overview - Sound Systems .
- Remove the bolt -2- from the A-pillar.
- Remove the bolts -3- and door arrester -1- through the speaker opening -arrow a-.

Installing



Install in reverse order of removal.

Tightening Specifications

Door Arrester. Refer to ⇒ [“1.1 Overview - Door”, page 86](#) .



2 Door Components

- ⇒ [“2.1 Overview - Door Components”, page 102](#)
- ⇒ [“2.2 Overview - Window Regulator”, page 104](#)
- ⇒ [“2.3 Overview - Door Handle and Door Lock”, page 105](#)
- ⇒ [“2.4 Left and Right Window Regulator Motor V14 / V15 , Removing and Installing”, page 106](#)
- ⇒ [“2.5 Window Regulator, Removing and Installing”, page 108](#)
- ⇒ [“2.6 Door Inner Cover, Removing and Installing”, page 111](#)
- ⇒ [“2.7 Catch, Removing and Installing”, page 113](#)
- ⇒ [“2.8 Cap, Removing and Installing, for the Lock Cylinder”, page 113](#)
- ⇒ [“2.9 Cap, Removing and Installing, without the Lock Cylinder”, page 115](#)
- ⇒ [“2.10 Lock Cylinder, Removing and Installing”, page 119](#)
- ⇒ [“2.11 Door Handle, Removing and Installing”, page 121](#)
- ⇒ [“2.12 Bracket, Removing and Installing”, page 123](#)
- ⇒ [“2.13 Door Lock, Removing and Installing”, page 126](#)
- ⇒ [“2.14 Window Guide, Removing and Installing”, page 130](#)
- ⇒ [“2.15 Outer Window Shaft Strip, Removing and Installing”, page 133](#)
- ⇒ [“2.16 Inner Window Shaft Strip, Removing and Installing”, page 135](#)

2.1 Overview - Door Components



Note

The illustration shows the left side. The right side is identical.



1 - Front Door

- ☐ Removing and installing. Refer to
⇒ ["1.4 Door, Removing and Installing", page 93](#) .
- ☐ Adjusting. Refer to
⇒ ["1.5 Door, Adjusting", page 96](#) .

2 - Sticker

- ☐ Diameter 28 mm
- ☐ Use electrical tape if needed

3 - Insulation

- ☐ Self-adhesive
- ☐ Installing:
 - Cut to size if necessary, 200 mm x 100 mm. Position as shown in the illustration.
 - Warm using the Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A- and then press firmly onto the outer door panel.

4 - Door Inner Cover

- ☐ Removing and installing. Refer to
⇒ ["2.6 Door Inner Cover, Removing and Installing", page 111](#) .

5 - Outer Door Seal

- ☐ For 4 door
- ☐ Removing and installing. Refer to ⇒ ["1.3 Outer Door Seal, Removing and Installing", page 92](#) .

6 - Outer Door Seal

- ☐ For 2 door
- ☐ Removing and installing. Refer to ⇒ ["1.3 Outer Door Seal, Removing and Installing", page 92](#) .

7 - Sticker

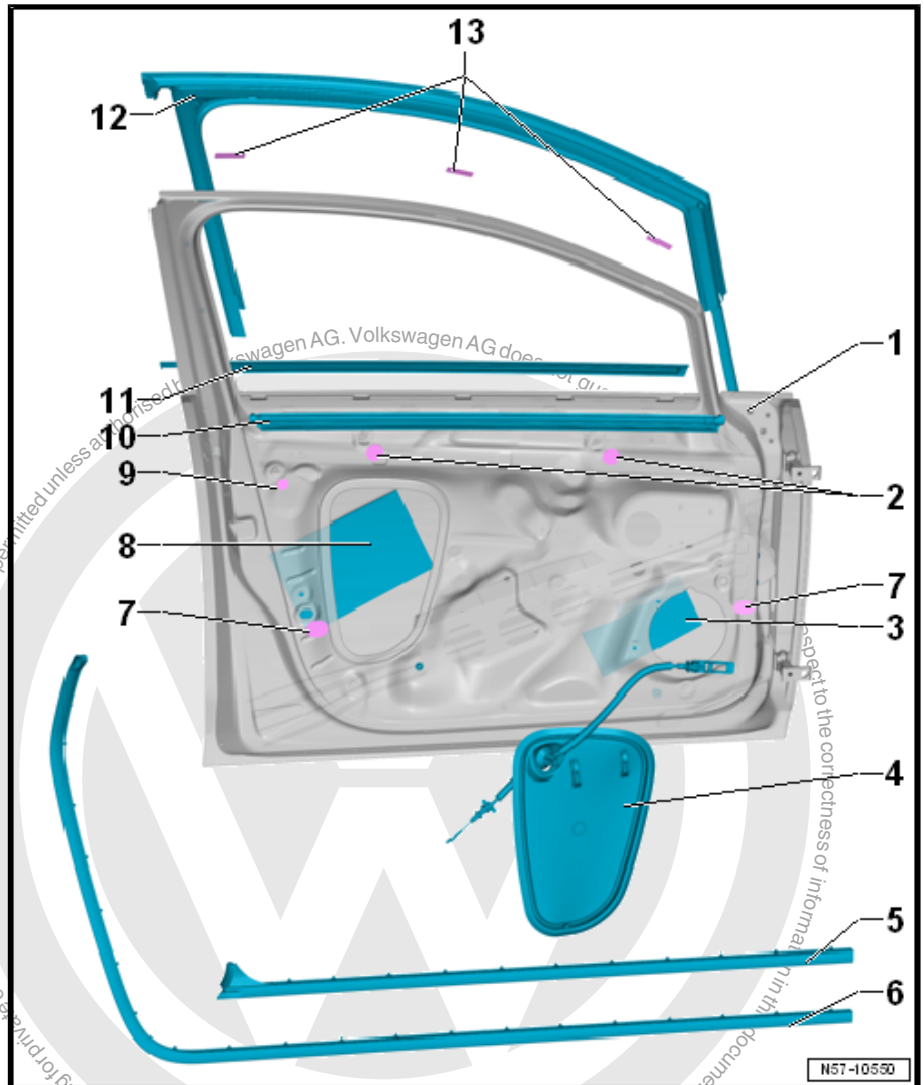
- ☐ Diameter 32 mm
- ☐ Use electrical tape if needed

8 - Insulation

- ☐ Self-adhesive
- ☐ Installing:
 - Cut to size if necessary, 250 mm x 160 mm. Position as shown in the illustration.
 - Warm using the Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A- and then press firmly onto the outer door panel.

9 - Sticker

- ☐ Diameter 19 mm
- ☐ Use electrical tape if needed





10 - Inner Window Shaft Strip

- ❑ Removing and installing. Refer to
⇒ ["2.16 Inner Window Shaft Strip, Removing and Installing", page 135](#) .

11 - Outer Window Shaft Strip

- ❑ Removing and installing. Refer to
⇒ ["2.15 Outer Window Shaft Strip, Removing and Installing", page 133](#) .

12 - Window Guide

- ❑ Removing and installing. Refer to ⇒ ["2.14 Window Guide, Removing and Installing", page 130](#) .

13 - Sticker

- ❑ Quantity 3 for 4-door
- ❑ Quantity 4 for 2-door
- ❑ 15 mm x 50 mm
- ❑ Use electrical tape if needed

2.2 Overview - Window Regulator

1 - Front Door

2 - Hex Nut

- ❑ 6 Nm
- ❑ Quantity: 5

3 - Window Regulator

- ❑ Removing and installing. Refer to
⇒ ["2.5 Window Regulator, Removing and Installing", page 108](#) .

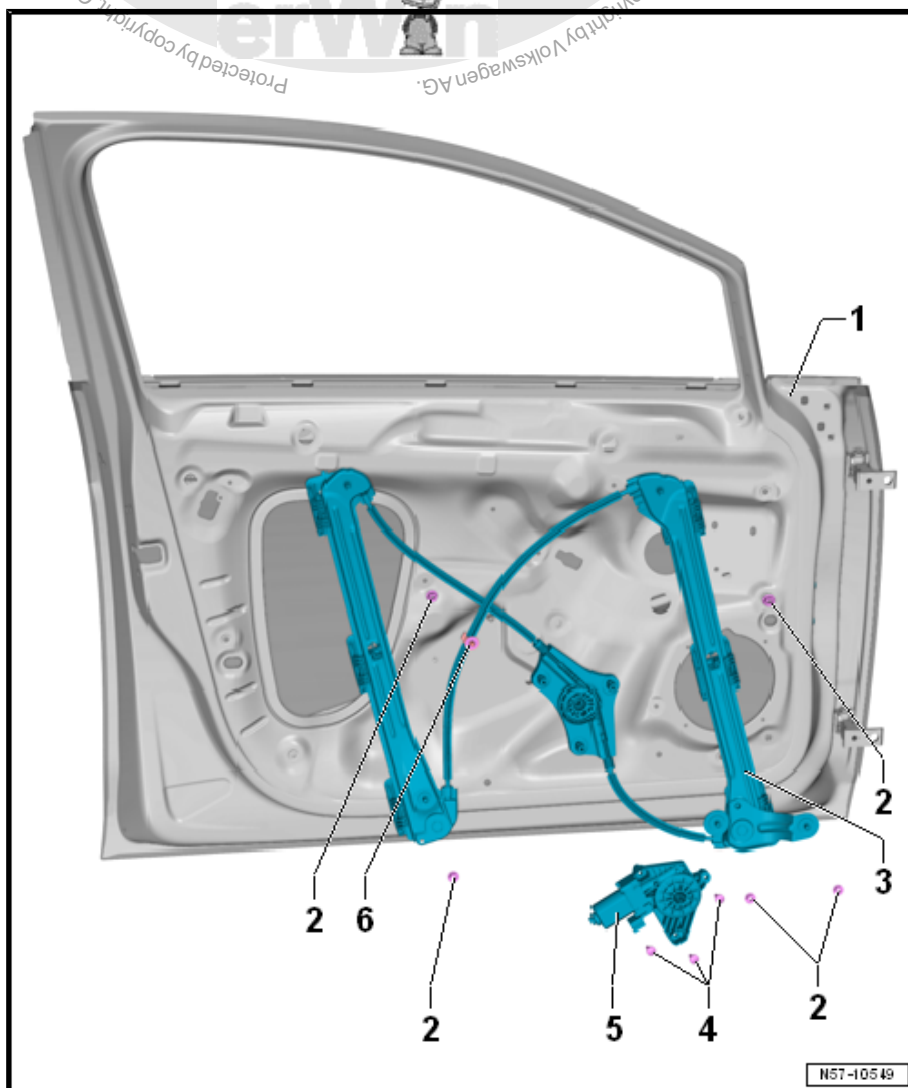
4 - Bolt

- ❑ 3 Nm
- ❑ Quantity: 3

5 - Left and Right Window Regulator Motor - V14/V15-

- ❑ Removing and installing. Refer to
⇒ ["2.4 Left and Right Window Regulator Motor V14 / V15 , Removing and Installing", page 106](#) .

6 - Clip





2.3 Overview - Door Handle and Door Lock

Note

The illustration shows the left side. The right side is identical.

1 - Door Lock

- ☐ Removing and installing. Refer to
⇒ [“2.13 Door Lock, Removing and Installing”, page 126](#) .

2 - Bolt

- ☐ 3 Nm
- ☐ For lock cylinder.

3 - Bracket

- ☐ Removing and installing. Refer to
⇒ [“2.12 Bracket, Removing and Installing”, page 123](#) .

4 - Install the Lock Cylinder

- ☐ Removing and installing. Refer to
⇒ [“2.10 Lock Cylinder, Removing and Installing”, page 119](#) .
- ☐ Is only installed on the driver door.

5 - Backing Plate

6 - Cap

- ☐ For the lock cylinder, removing and installing. Refer to
⇒ [“2.8 Cap, Removing and Installing, for the Lock Cylinder”, page 113](#) .
- ☐ Without lock cylinder, removing and installing
⇒ [“2.9 Cap, Removing and Installing, without the Lock Cylinder”, page 115](#) .

7 - Door Handle

- ☐ Removing and installing. Refer to ⇒ [“2.11 Door Handle, Removing and Installing”, page 121](#) .

8 - Bolt

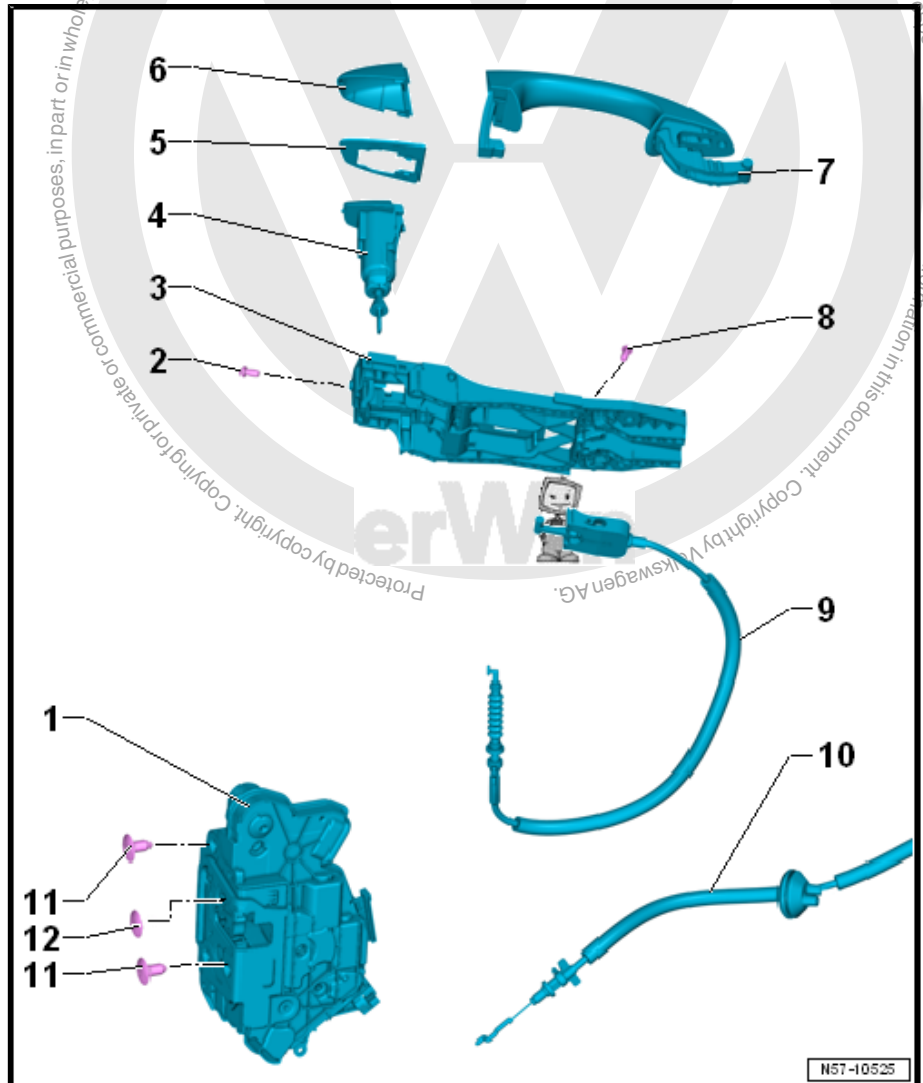
- ☐ 1.5 Nm
- ☐ Mounting bracket is disengaged from door by loosening this bolt.

9 - Cable

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

10 - Cable

- ☐ From the interior door mechanism to the door lock -1-
- ☐ With a grommet on the cover





11 - Bolt

- ☐ 18 Nm
- ☐ Quantity: 2

12 - Cap

2.4 Left and Right Window Regulator Motor -V14- / -V15- , Removing and Installing

Special tools and workshop equipment required

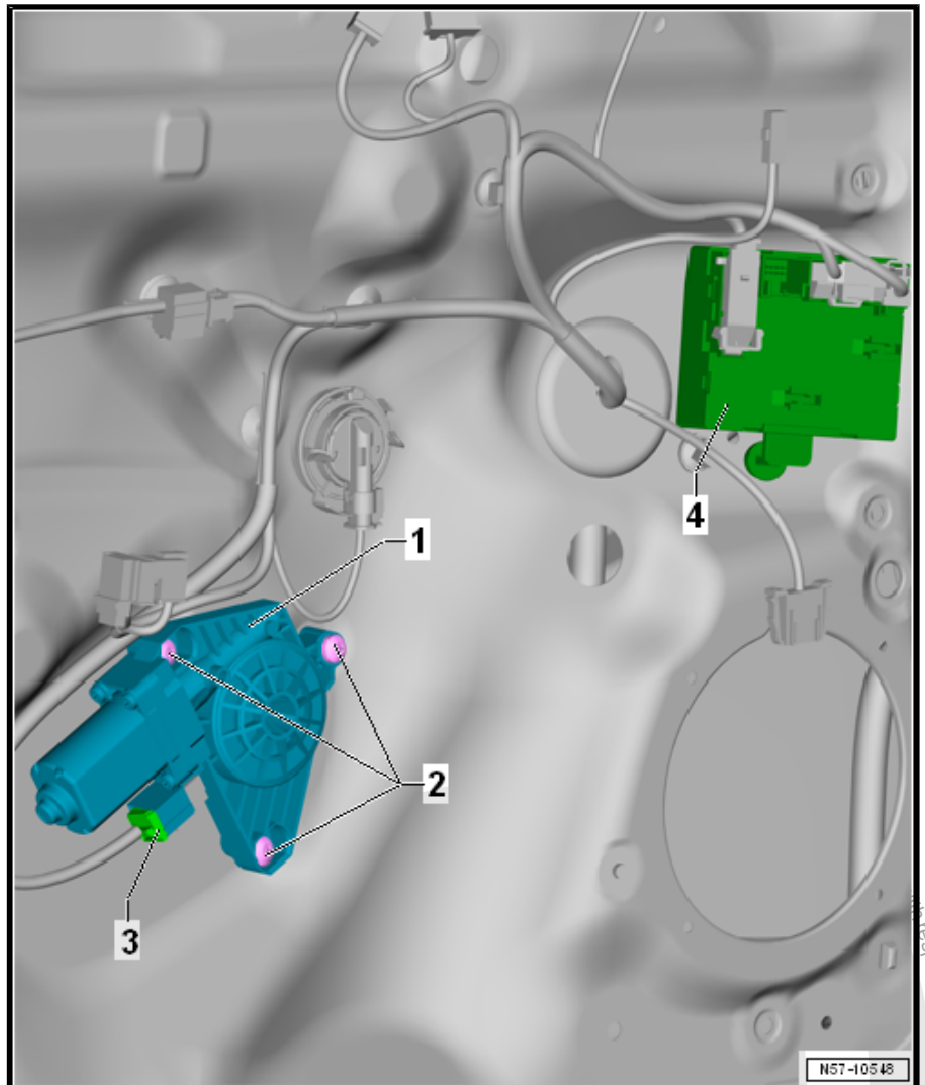
- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

- ◆ *The following describes removing and installing the left power window motor. The removal and installation of the right power window motor is identical.*
- ◆ *The Driver and Front Passenger Door Control Module - J386/ J387- -4- is separated from the Left and Right Window Regulator Motor - V14/V15- -1-.*
- ◆ *The Driver and Front Passenger Door Control Module - J386/ J387- are clipped in the door.*

Removing



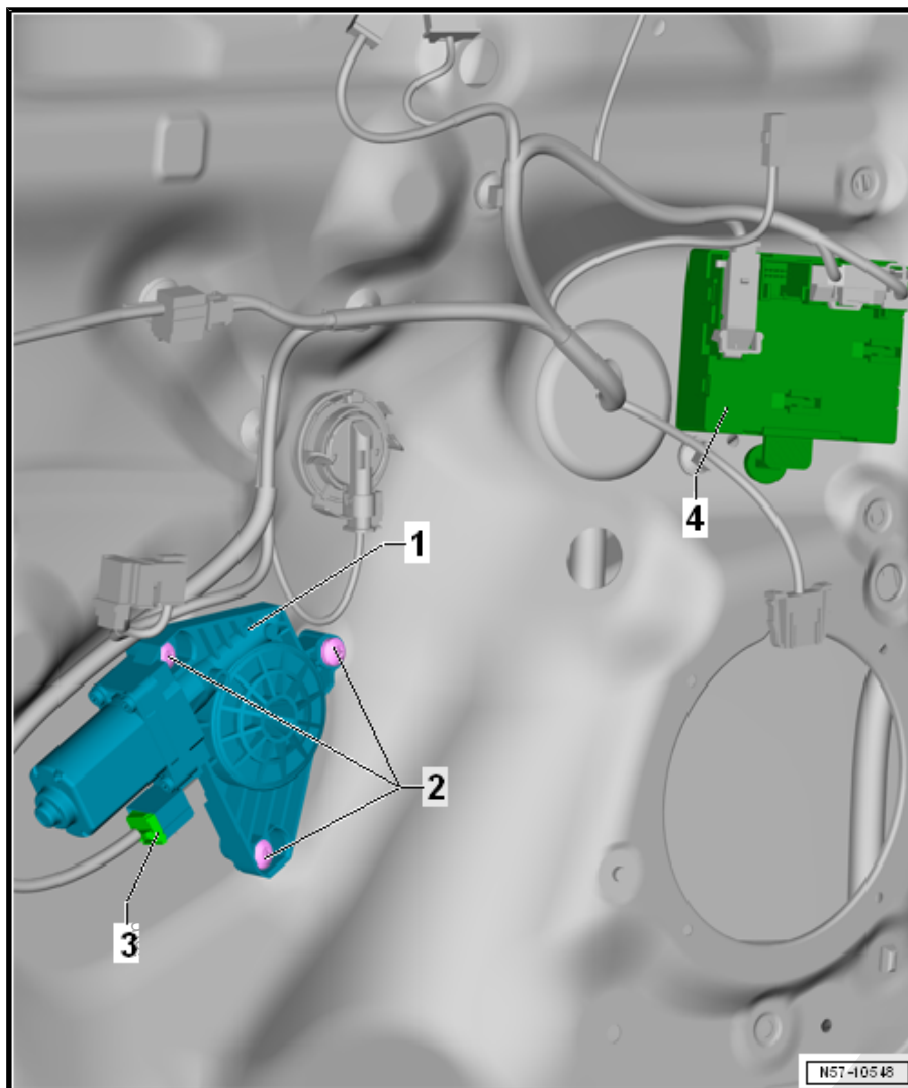
- Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Front Door Trim Panels; Front Door Trim Panel, Removing and Installing .
- Secure the door window with adhesive tape to prevent it from falling down.
- Turn off the ignition and all electrical equipment. Remove the key.
- Disconnect the connector -3-.
- Remove the bolts -2- (quantity: 3).
- Remove the power window motor -1- from the cable reel mount.

Installing



WARNING

It is necessary to code the additional functions and pinch protection each time a new window regulator motor (door control module) is installed.



- Install the window regulator motor -1- on the mounts in the cable reel. Gently move the door window up and down so that the splines between the window regulator motor and the cable reel can mesh.
- Connect the connector -3-.
- Code the new window regulator motor using the Vehicle Diagnostic Tester .
- For more information regarding the one-touch up/one-touch down and the pinch protection features. Refer to ⇒ Maintenance ; Booklet 36.1 .

Install in reverse order of removal.

Tightening Specifications

2.5 Window Regulator, Removing and Installing

Special tools and workshop equipment required

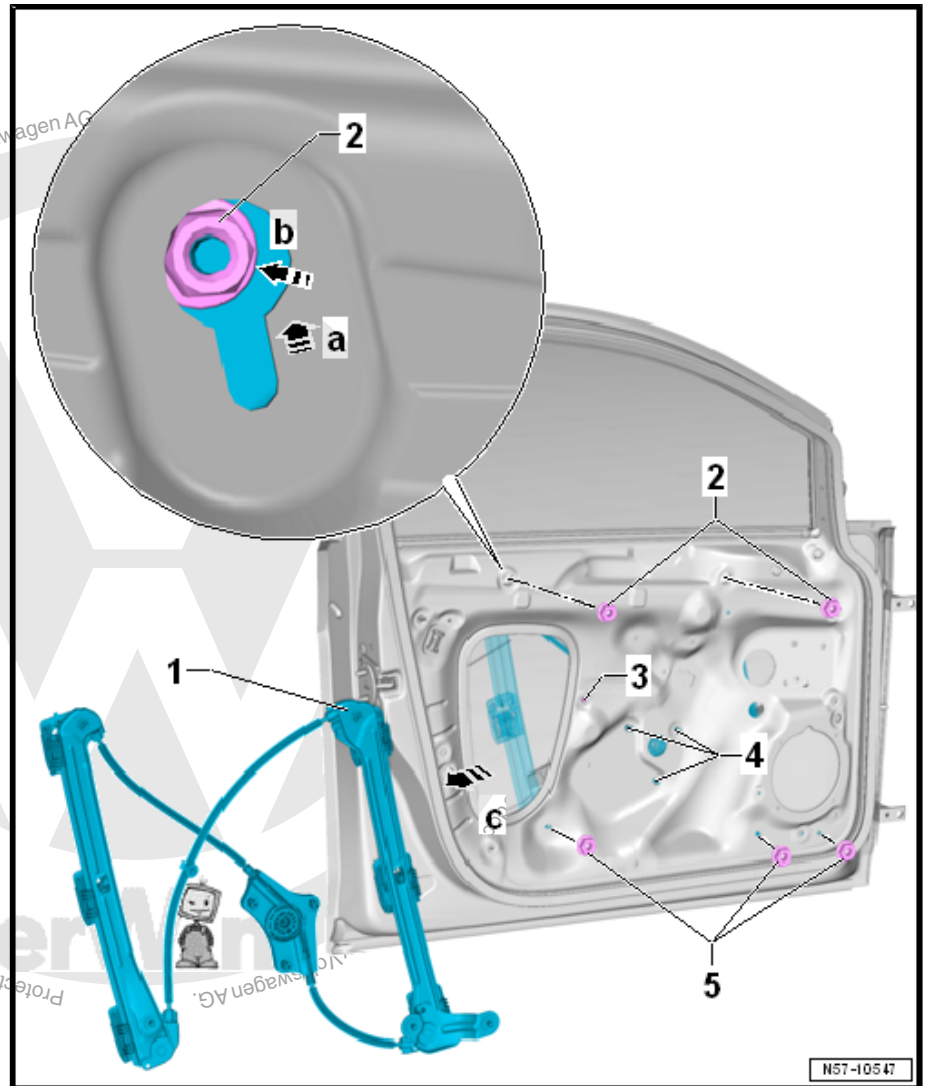
- ♦ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

The following describes removing and installing the left window regulator. Removing and installing right window regulator is identical.

Removing



- Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Front Door Trim Panels; Front Door Trim Panel, Removing and Installing .
- Remove the speaker. Refer to ⇒ Communication; Rep. Gr. 91 ; Sound System; Component Location Overview - Sound Systems .
- Disconnect the cable connection on the window regulator.
- Remove the door window. Refer to ⇒ [“5.4 Front Door Window, Removing and Installing”, page 302](#) .
- Remove the window regulator motor. Refer to ⇒ [“2.4 Left and Right Window Regulator Motor V14 / V15, Removing and Installing”, page 106](#) .

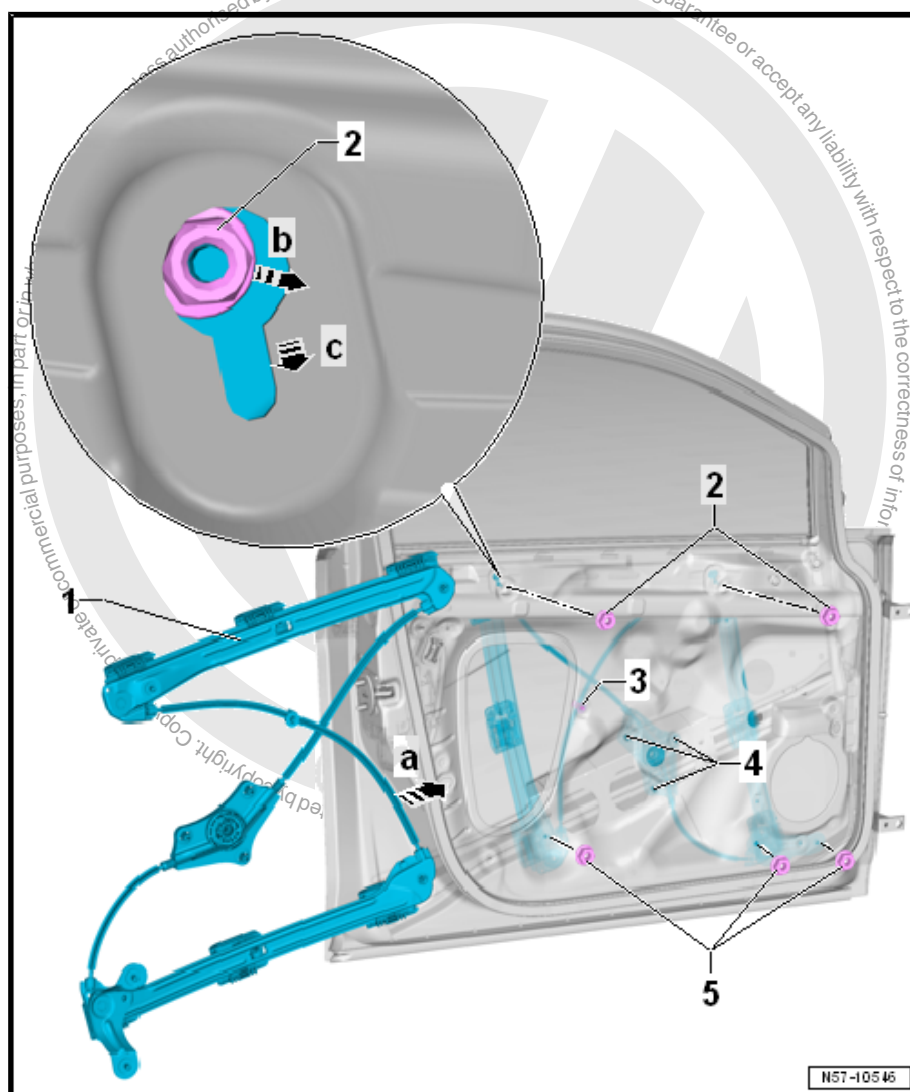


- Release the hooks on the cable reel -4- and slide into the door.
- Remove the hex nuts -5- and push the window regulator threaded pin in the door.
- Loosen the hex nuts -2-, but do not remove.
- Push the window regulator in the door slightly upward -arrow a- and guide in the door -arrow b-.

Window Regulator

- Turn the window regulator -1- 90° and remove through the opening in the door -arrow c-.

Installing



- Guide the window regulator -1- through the opening in the door -arrow a- and bring into the installation position.
- Push the window regulator threaded pin through the inner door panel -arrow b-.
- Push the cable reel against the door inner panel -4- until the hooks engage audibly.
- Secure the cable to the window regulator.



- Install window regulator motor. Refer to
⇒ [“2.4 Left and Right Window Regulator Motor V14 / V15 ,
Removing and Installing”, page 106](#) .
- Install the door window. Refer to
⇒ [“5.4 Front Door Window, Removing and Installing”,
page 302](#) .

Tightening Specifications

2.6 Door Inner Cover, Removing and Installing

Special tools and workshop equipment required

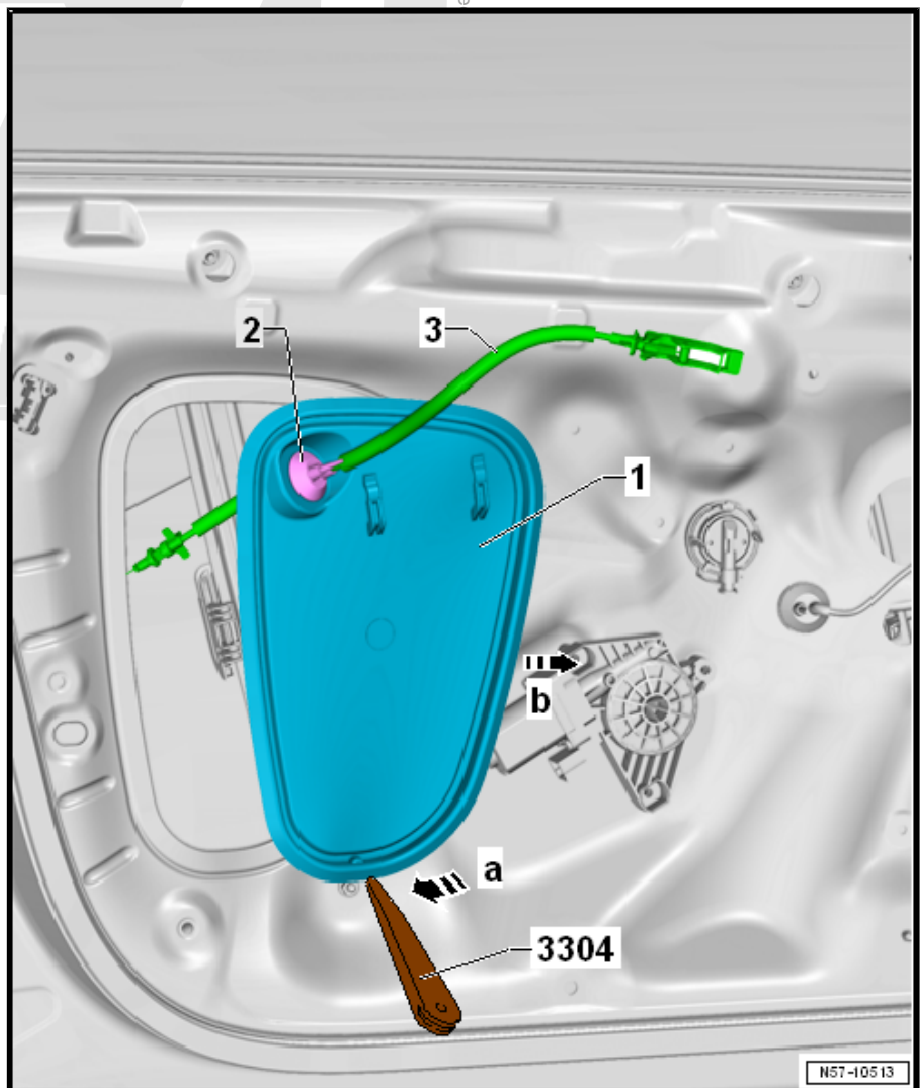
- ◆ Trim Removal Wedge - 3409-



Note

The following describes removing and installing the left cover only. The right side is identical.

Removing





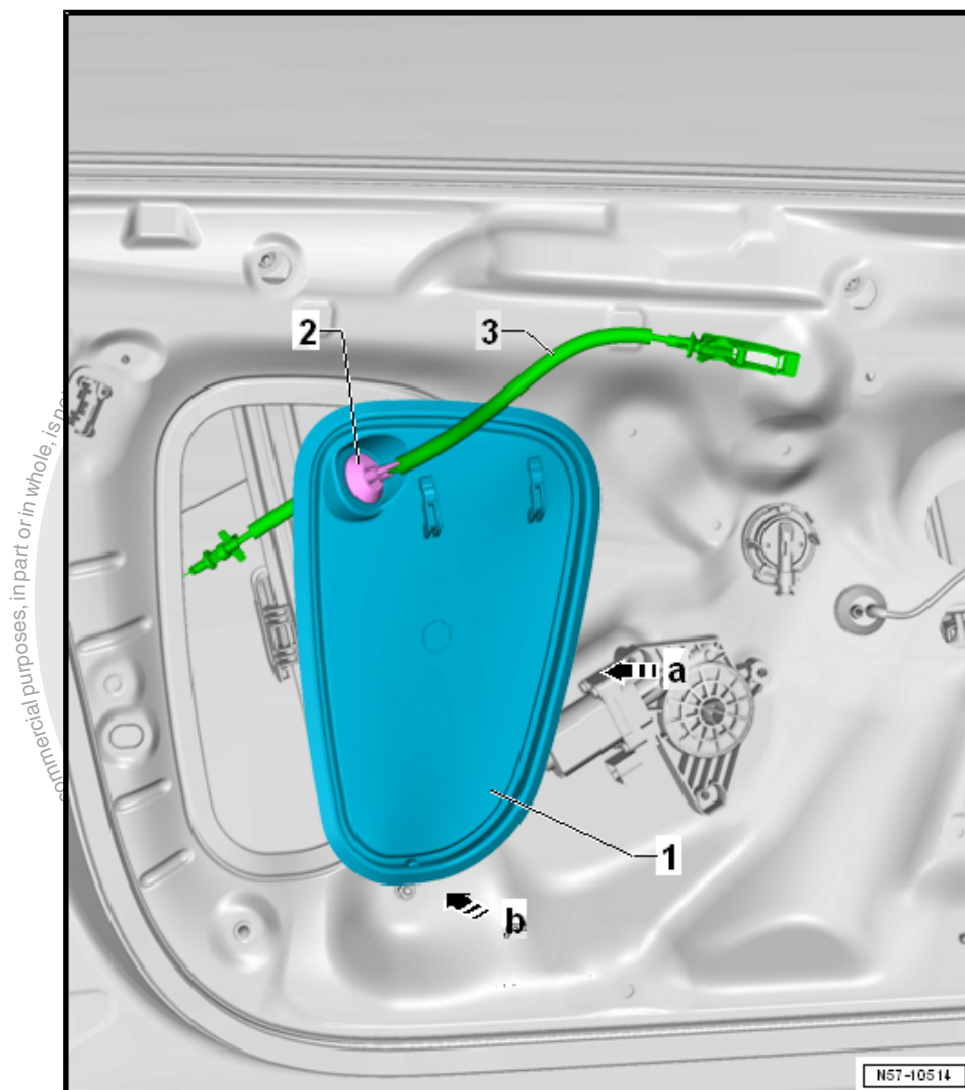
- Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Front Door Trim Panels; Front Door Trim Panel, Removing and Installing .
- Pry up the cover -1- at the bottom -arrow a-.
- Remove the cover -1- forward from the door -arrow b-.



Note

It is necessary to remove the cable -3- and grommet -2- from the cover -1- to perform the following work. Disconnect the connector (if equipped) at the grommet.

Installing



- Guide the cable -3- with the grommet -2- into the cover -1-.
- Install the grommet -2- into the cover -1-.
- Install the cover -1- in the door -2- -arrow a-.
- Engage the cover -1- all around -arrow b-.



i Note

Check the edges of the cover all the way around to make sure it is installed correctly.

2.7 Catch, Removing and Installing

Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm - VAG1331-
- ◆ Cylinder Head Bolt Socket - 3410-

i Note

The following describes removing and installing the right striker pin. The right side is identical.

Removing

- Remove the bolts -2- and the catch -1-.

Installing

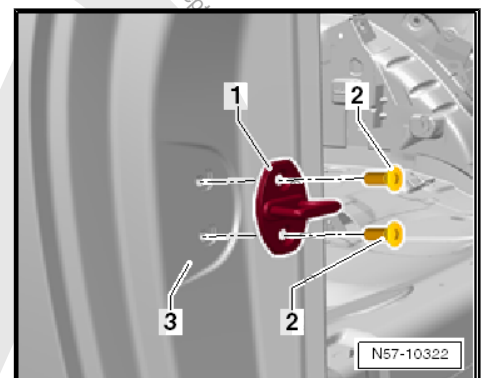
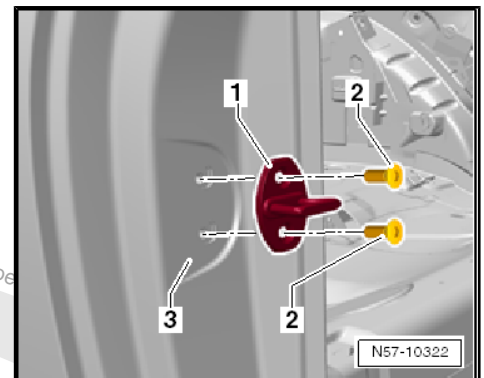
i Note

A striker pin with a curve must be installed.

- Place the striker pin -1- with the curve faces toward the inside on the B-pillar -3-. Tighten the bolts -2-.
- Adjust the striker pin ➔ [“1.6 Catch, Adjusting”, page 98](#) .

Tightening Specifications

Component	Tightening Specifications
Catch	20 Nm

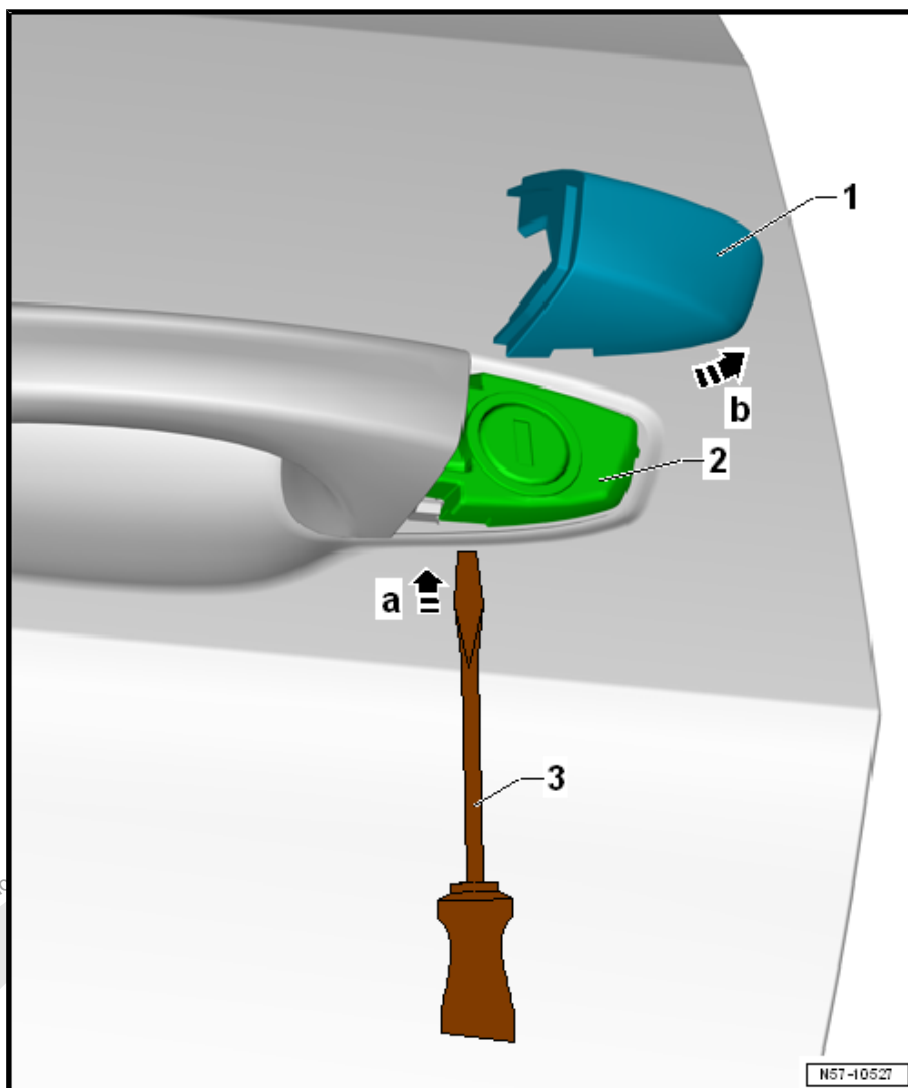


2.8 Cap, Removing and Installing, for the Lock Cylinder

i Note

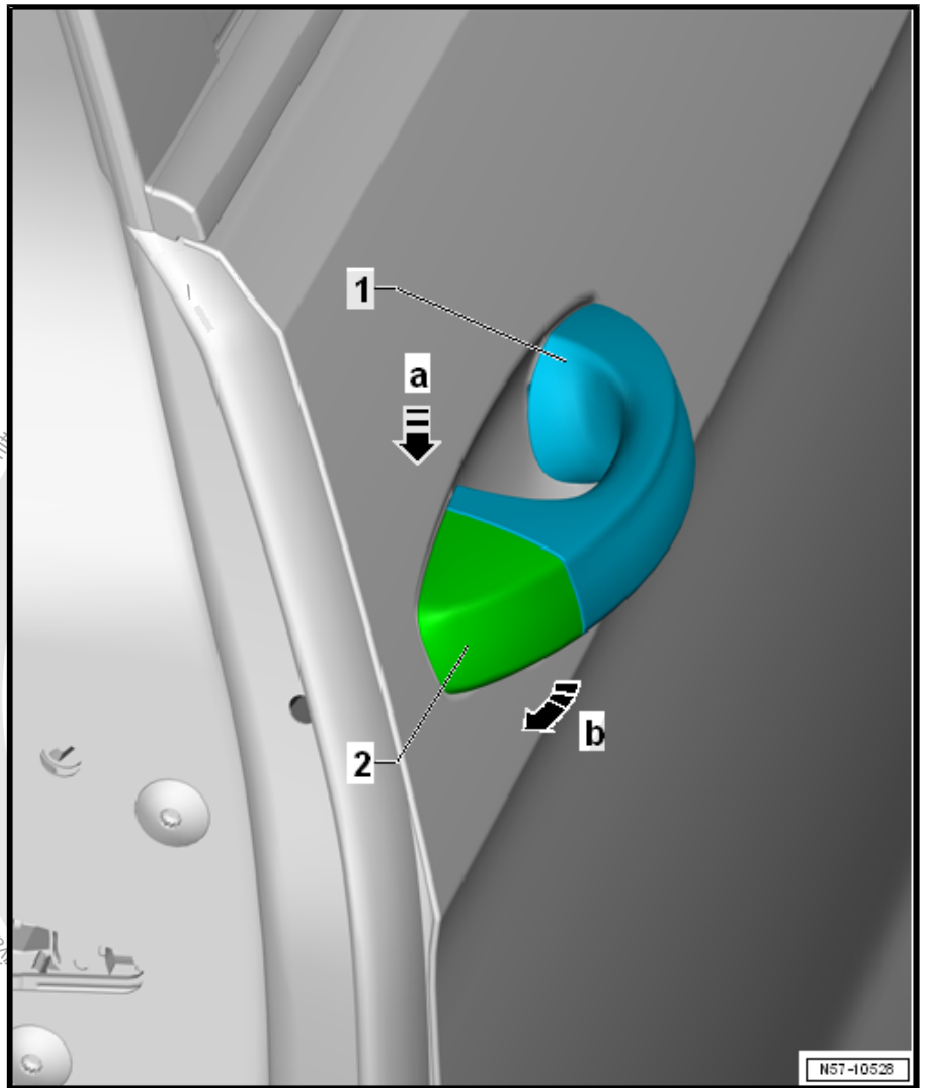
- ◆ *Do not turn the screwdriver to pry off the lock cylinder cap.*
- ◆ *The lock cylinder and lock cylinder cap are installed on the driver side only.*

Removing



- Remove the door handle from the door.
- Gently push a small screwdriver -3- -arrow a- into the opening in the bottom of the lock cylinder cap.
- Remove the lock cylinder cap -1- gently from the door -arrow b-.
- Push the cap off the lock cylinder.

Installing



- Remove the door handle -1- from the door.
- Push the lock cylinder cap -2- gently at an angle from above -arrow a- on the lock cylinder.
- Press in the lock cylinder cap -2- on to door -arrow b- until cover cap engages with lock cylinder.

2.9 Cap, Removing and Installing, without the Lock Cylinder



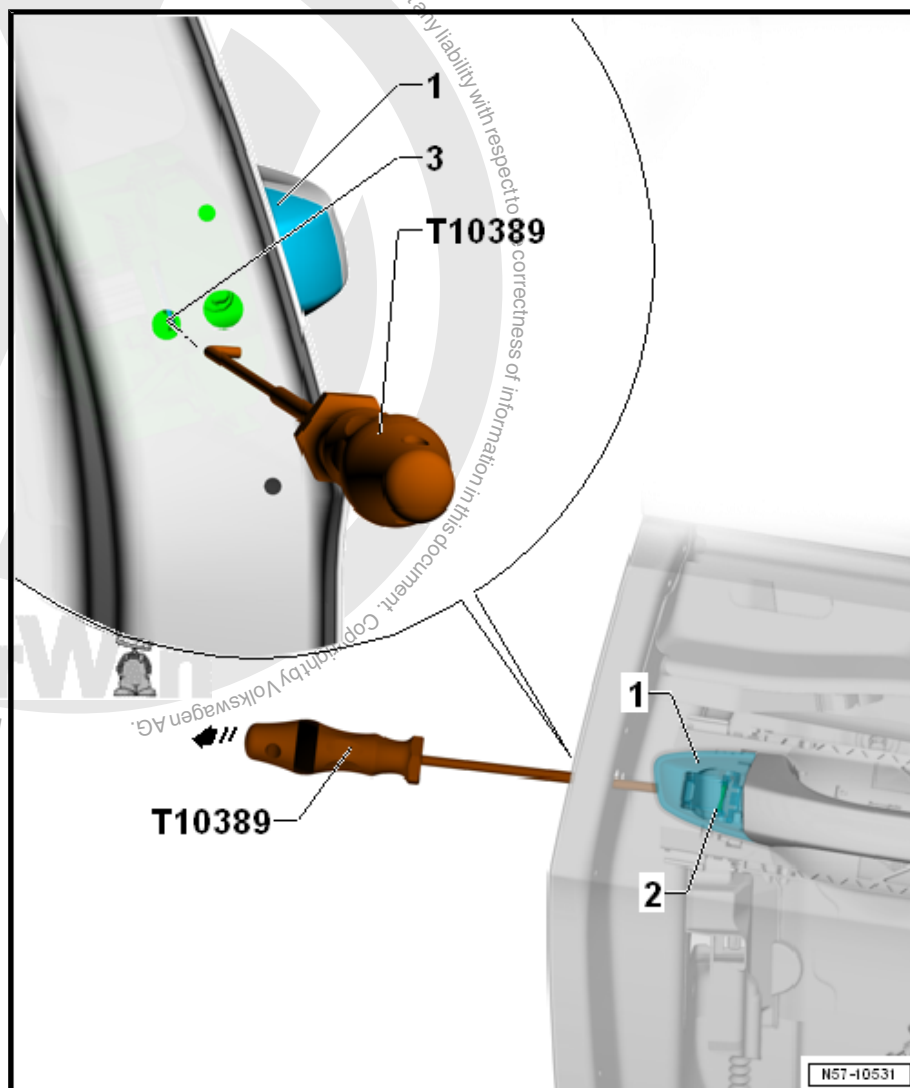
Note

This cap is installed where there is no lock cylinder.

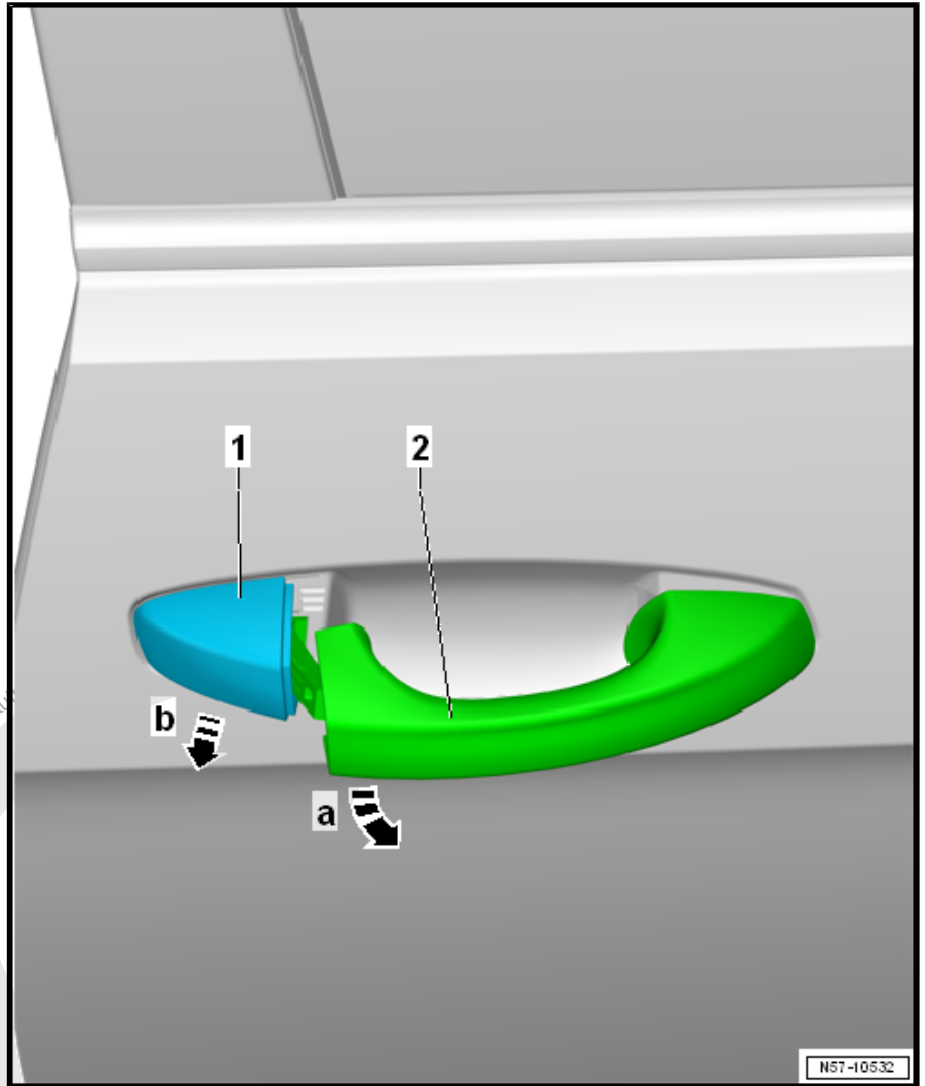
Removing

Special tools and workshop equipment required

- ◆ Lock Cylinder Housing Assembly Tool - T10389-

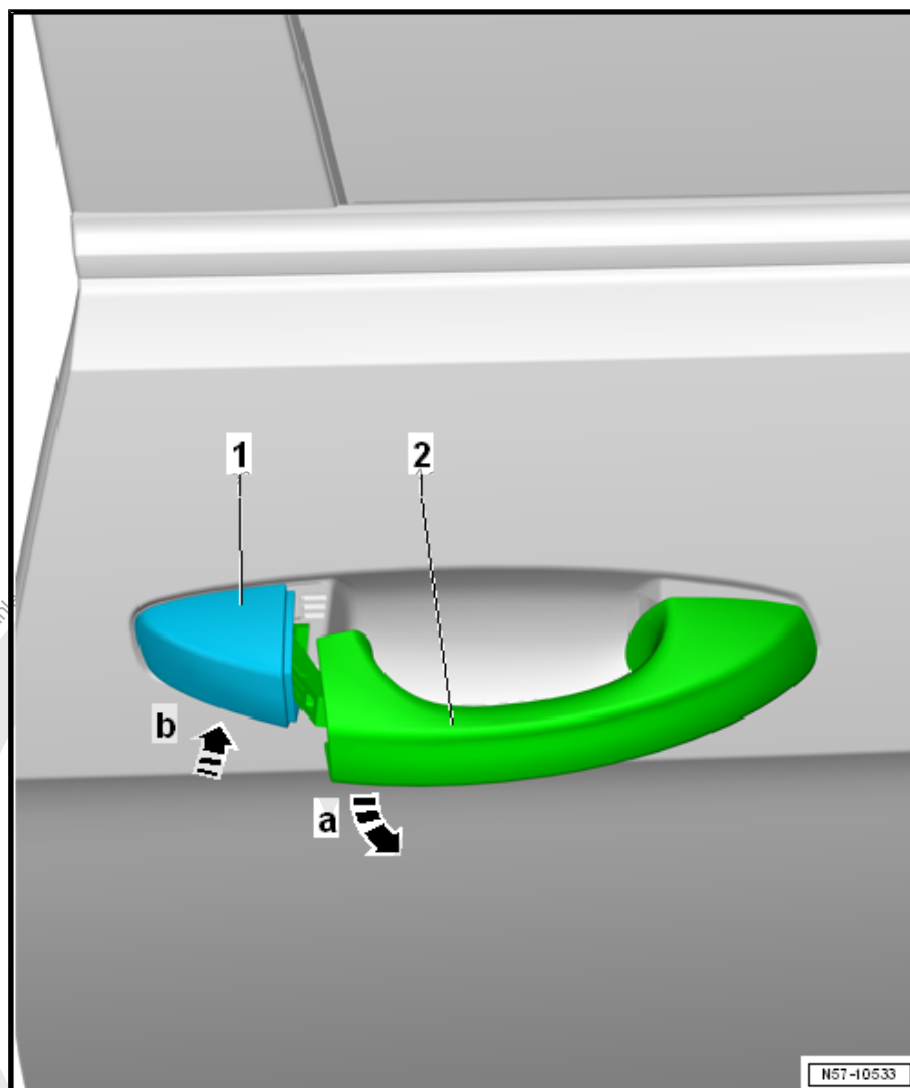


- Remove the plugs -3-.
- Guide the Lock Cylinder Housing Assembly Tool - T10389- approximately 44 mm behind the bracket locking lever -2-.
- Pull the Lock Cylinder Housing Assembly Tool - T10389- approximately 5 mm rearward -arrow- until the hooks release.

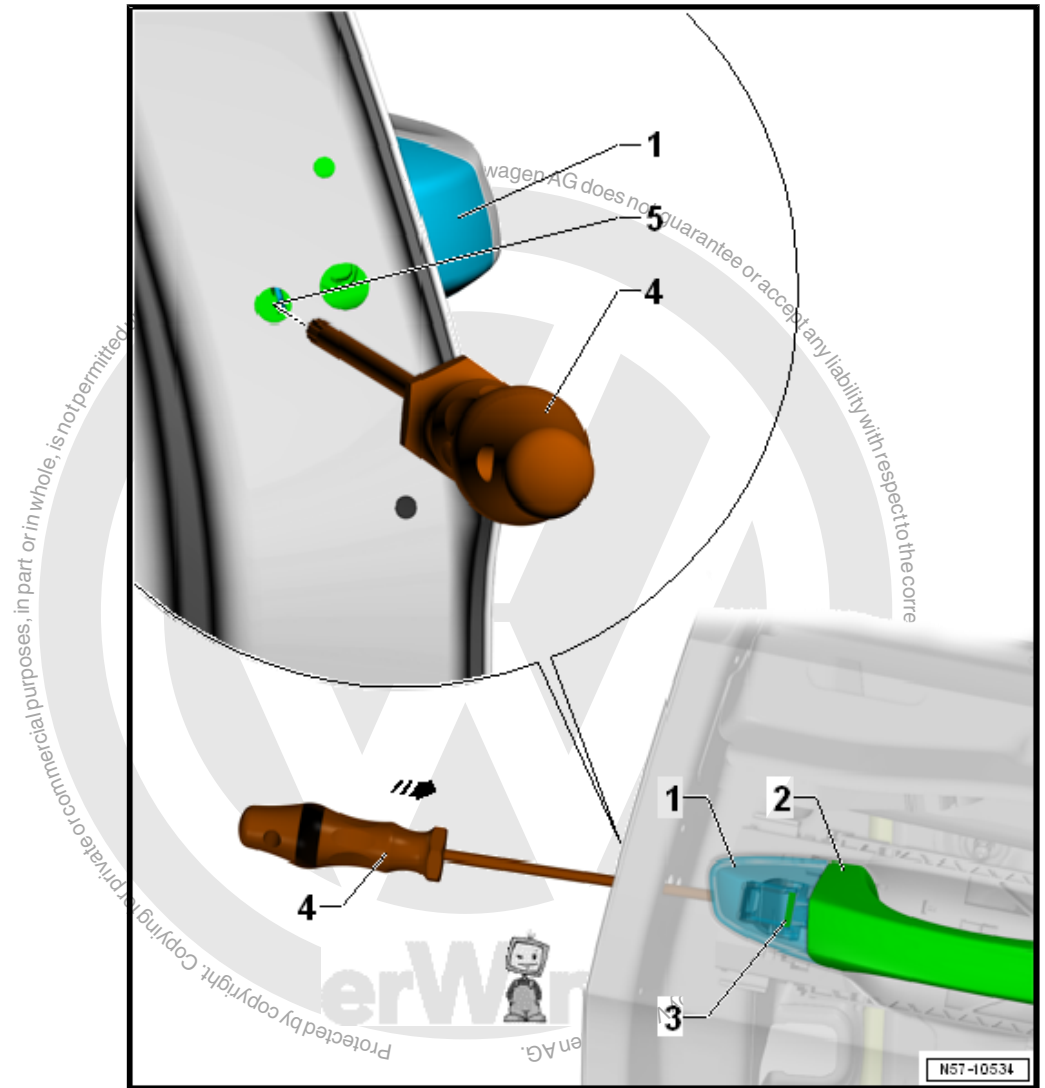


- Remove the door handle -1- from the door -arrow a-.
- Remove the cap -2- from the mounting bracket -arrow b-.

Installing



- Remove the door handle -2- from the door in -direction of arrow a-.
- Insert the cap -1- into the mounting bracket -arrow b-.



- Lightly push the cap -1- in the door.
- Guide a screwdriver with a flat blade -4- approximately 40 mm until the locking lever -3- of the bracket.
- Install the cap -1- in the door.
- Push the screwdriver in approximately 5 mm -arrow-, until the hook -3- locks.
- Secure the plug -5-.

2.10 Lock Cylinder, Removing and Installing

Special tools and workshop equipment required

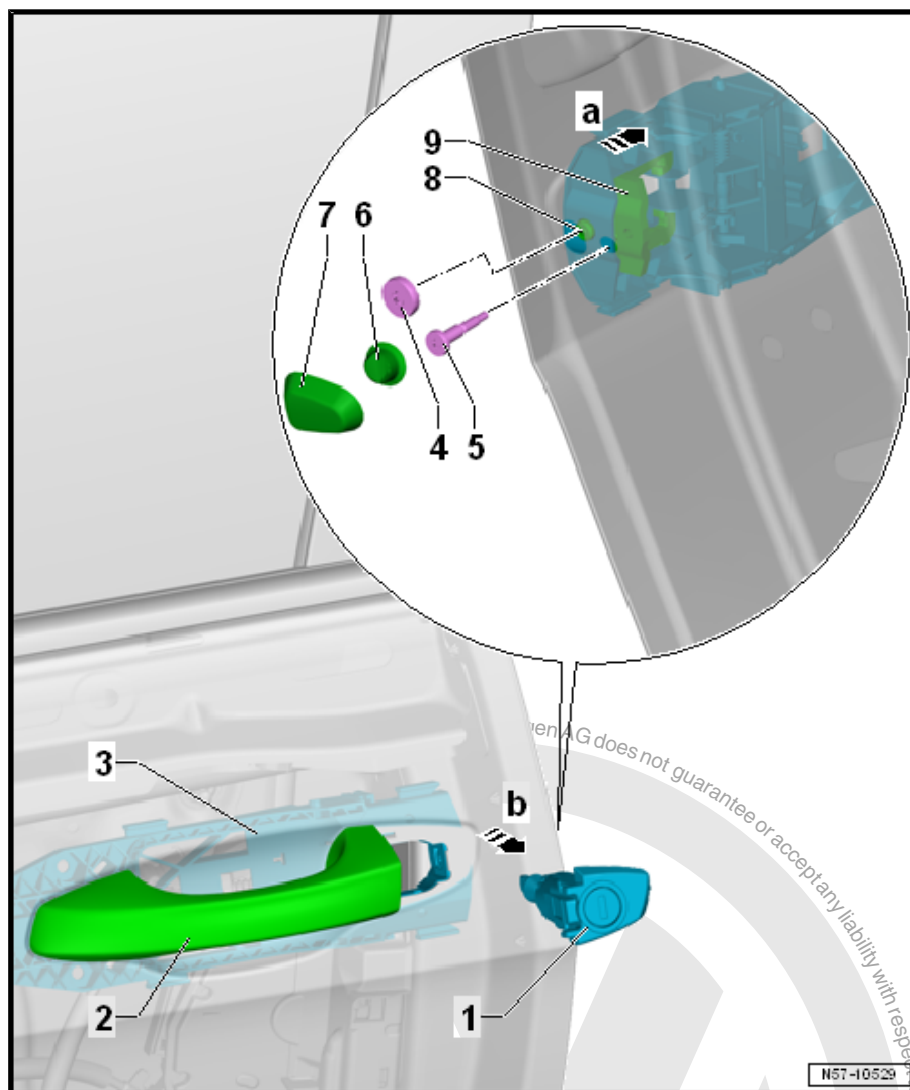
- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

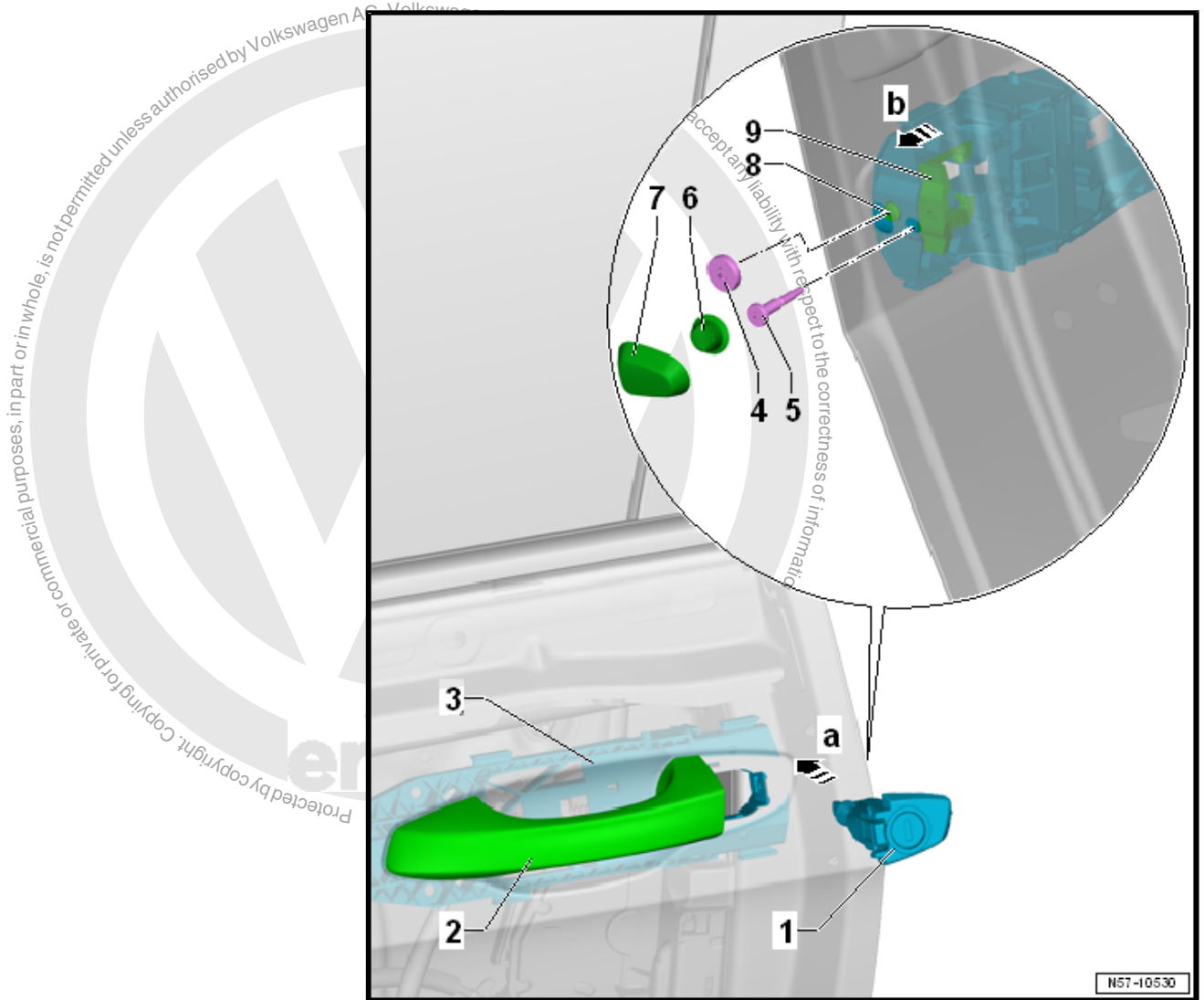
- ◆ *The following describes removing and installing a left lock cylinder. The right side is identical.*
- ◆ *There can be different covers -4-, 6 or 7- installed.*

Removing



- Remove the lock cylinder cap. Refer to [⇒ "2.8 Cap, Removing and Installing, for the Lock Cylinder", page 113](#).
- Pry up the covers -4- and 6- or -7-.
- Remove the bolt -5-.
- Remove the bolt -8- all the way.
- Push in the bolt -8- with the locking mechanism -9- -arrow a.- Then the lock cylinder will be uncovered.
- Remove the door handle -2- from the door.
- Remove the lock cylinder housing -1- from the bracket -3- at a right angle -arrow b- to the door.

Installing



- Remove the door handle -2- from the door.
- Install the lock cylinder housing -1- into the bracket -3- at a right angle -arrow a-.
- Install the bolts -5 and 8- into the mounting bracket. The bolt -8- draws the locking mechanism -9- into position -arrow b-.



Note

The lock cylinder housing must be pressed onto the outer door panel while installing.

Install in reverse order of removal.

Tightening Specifications

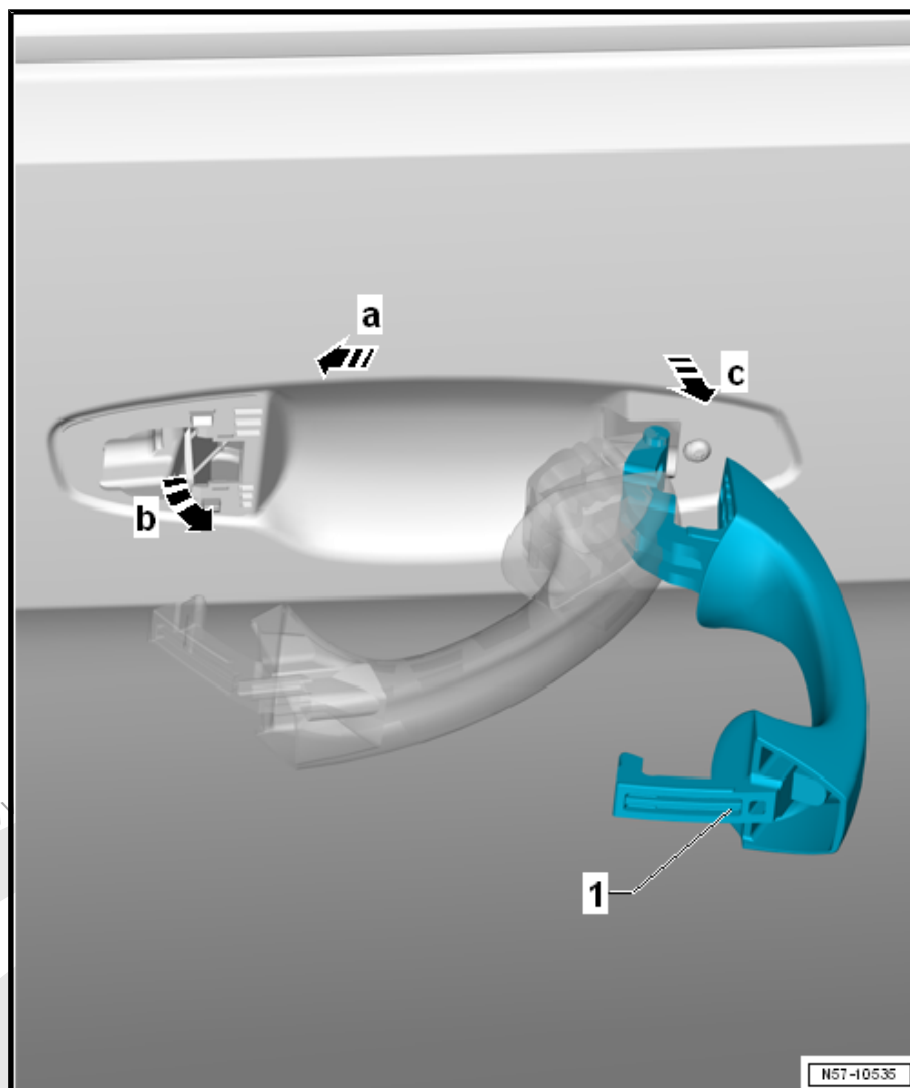
2.11 Door Handle, Removing and Installing

Removing



Note

The following describes removing and installing the right door handle. The left side is identical.

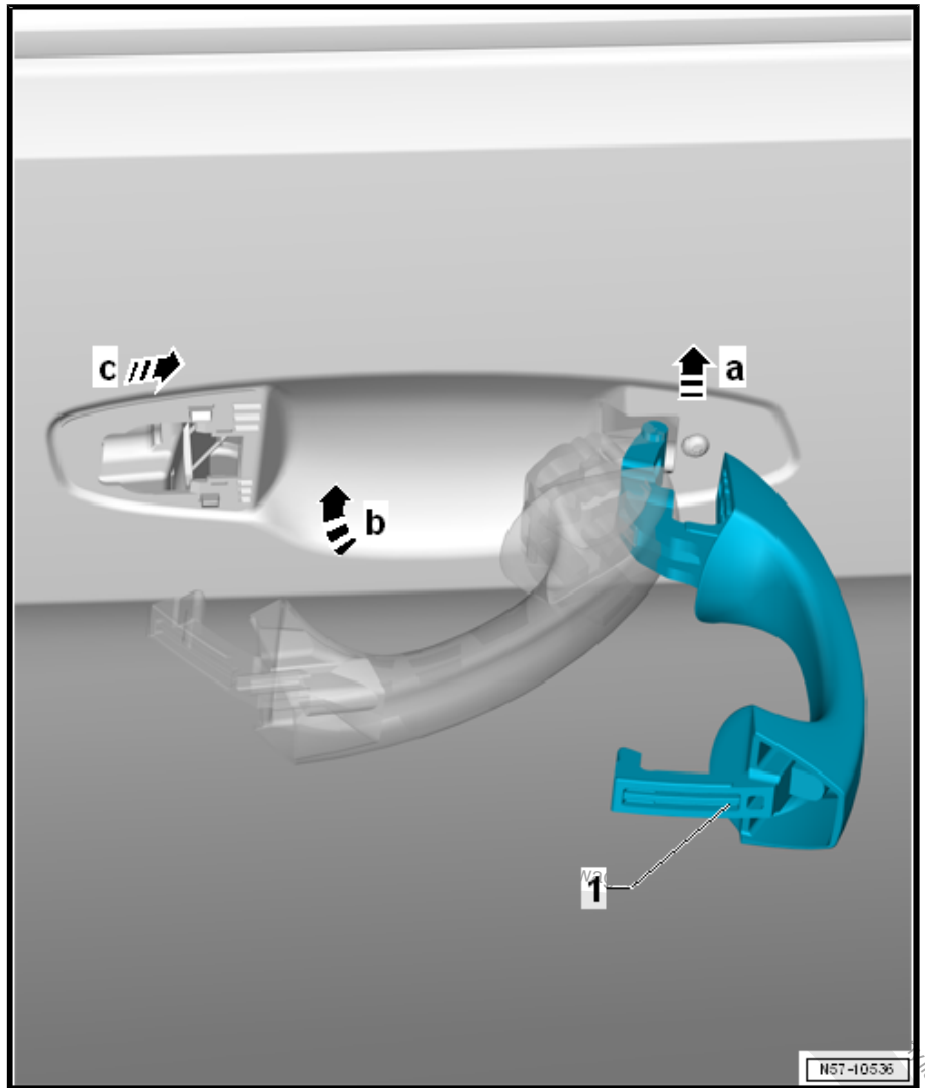


Notes for working on a door handle with keyless access authorization. Refer to ➤ Electrical Equipment; Rep. Gr. 94 ; Access/Start Authorization .

- Depending on the version remove the lock cylinder cap (refer to ➤ [“2.8 Cap, Removing and Installing, for the Lock Cylinder”, page 113 .](#)) and the lock cylinder (refer to ➤ [“2.10 Lock Cylinder, Removing and Installing”, page 119 .](#)).
- Or remove the cap without the lock cylinder. Refer to ➤ [“2.9 Cap, Removing and Installing, without the Lock Cylinder”, page 115 .](#)
- Pull the door handle -1- slightly to the front -arrow a- and out of the mount.
- Move the door handle in the -direction of arrow b-
- Remove the door handle at a right angle -arrow c- from the bracket -2-.

For vehicles with a keyless access authorization the connector is loosened by removing the door handle.

Installing



Notes for working on a door handle with keyless access authorization. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; Access/Start Authorization .

- Install the door handle -1- at a right angle -arrow a-.

For vehicles with a keyless access authorization the connector is brought together when installing the door handle.

- Install the door handle -1- in the door -arrow b-.
- Push the door handle toward front -arrow c- into the mount inside the bracket.
- Always perform a functionality test with the door open.

2.12 Bracket, Removing and Installing

Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-

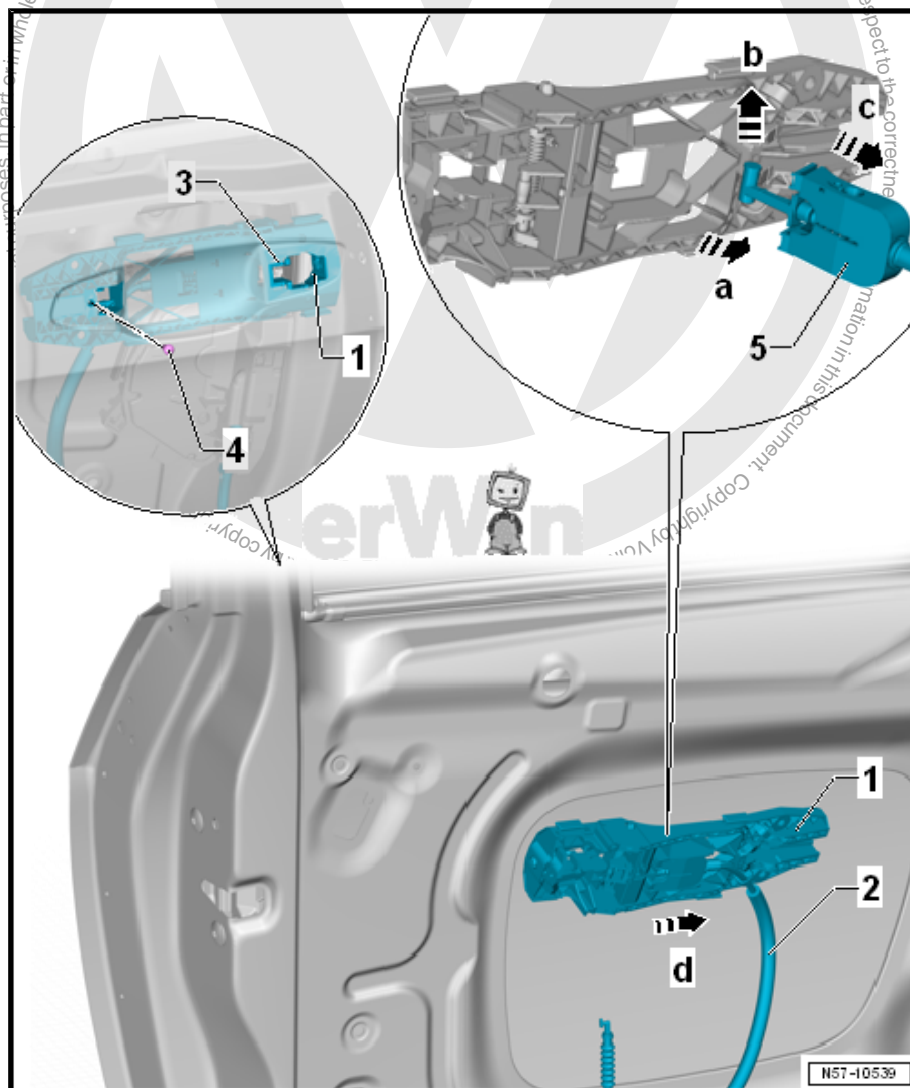


Removing



Note

*The following describes removing and installing the left bracket.
The right side is identical.*



- Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Front Door Trim Panels; Front Door Trim Panel, Removing and Installing .
- Depending on the version remove the lock cylinder cap (refer to ⇒ [“2.8 Cap, Removing and Installing, for the Lock Cylinder”, page 113 .](#)) and the lock cylinder (refer to ⇒ [“2.10 Lock Cylinder, Removing and Installing”, page 119 .](#)).
- Or remove the cap without the lock cylinder. Refer to ⇒ [“2.9 Cap, Removing and Installing, without the Lock Cylinder”, page 115 .](#)
- Remove the door handle. Refer to ⇒ [“2.11 Door Handle, Removing and Installing”, page 121 .](#)

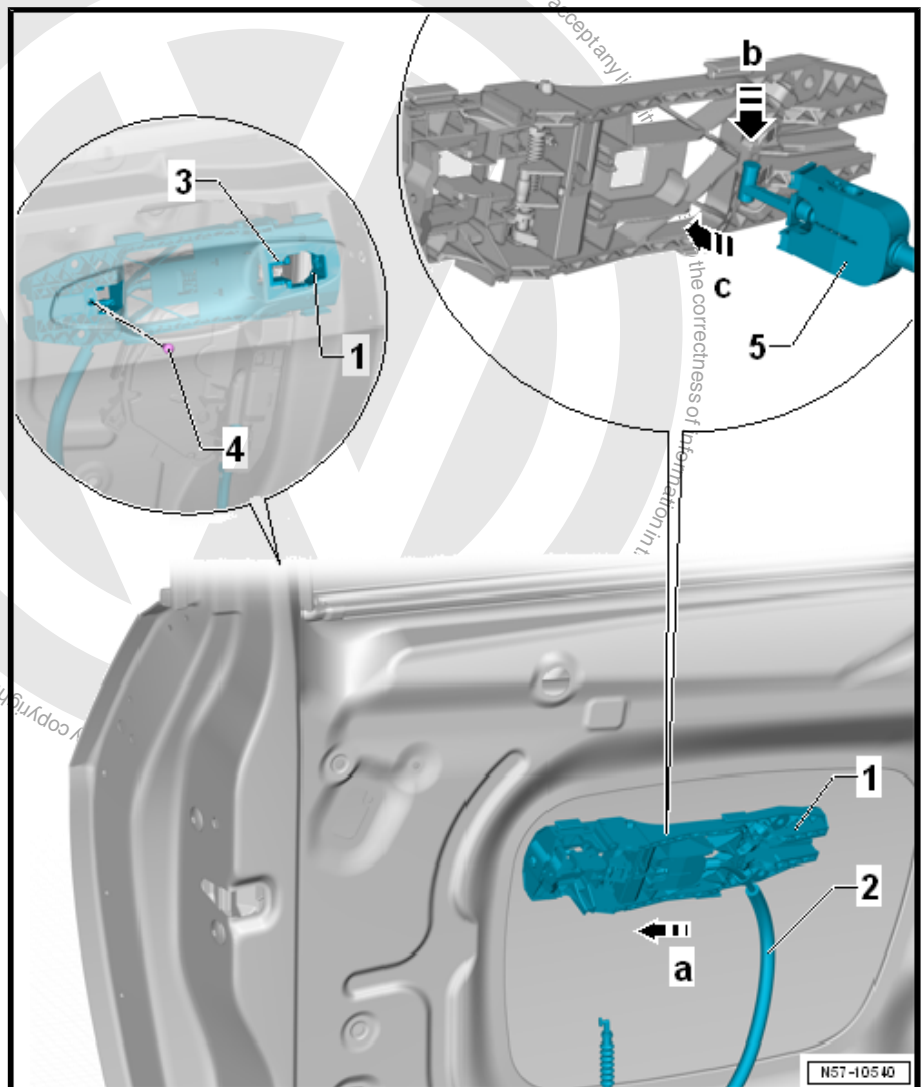


- Remove the door inner cover. Refer to
⇒ [“2.6 Door Inner Cover, Removing and Installing”, page 111](#) .
- Remove the door handle. Refer to
⇒ [“2.11 Door Handle, Removing and Installing”, page 121](#) .
- Remove the bolt -4- and then remove the backing -1-.
- Remove the bracket -1- from the front door -arrow d-.

Loosening the cable

- Release the retainer -5- and swivel it out of the mount -arrow a-.
- Remove the pin for the cable out of the mount -arrow b-.
- Remove the cable -2- from the bracket -1- -arrow c-.

Installing



Mounting the cable

- Guide the cable -2- in the bracket -1-.
- Push the pin for the cable out of the mount -arrow b-.



- Pivot the bracket -5- in the mount in the bracket -arrow c- and engage.
- Guide the bracket -1- in the front door -arrow a-.
- Install the buffer -1- and tighten the bolt -4-.

Tightening Specifications

2.13 Door Lock, Removing and Installing

Special tools and workshop equipment required

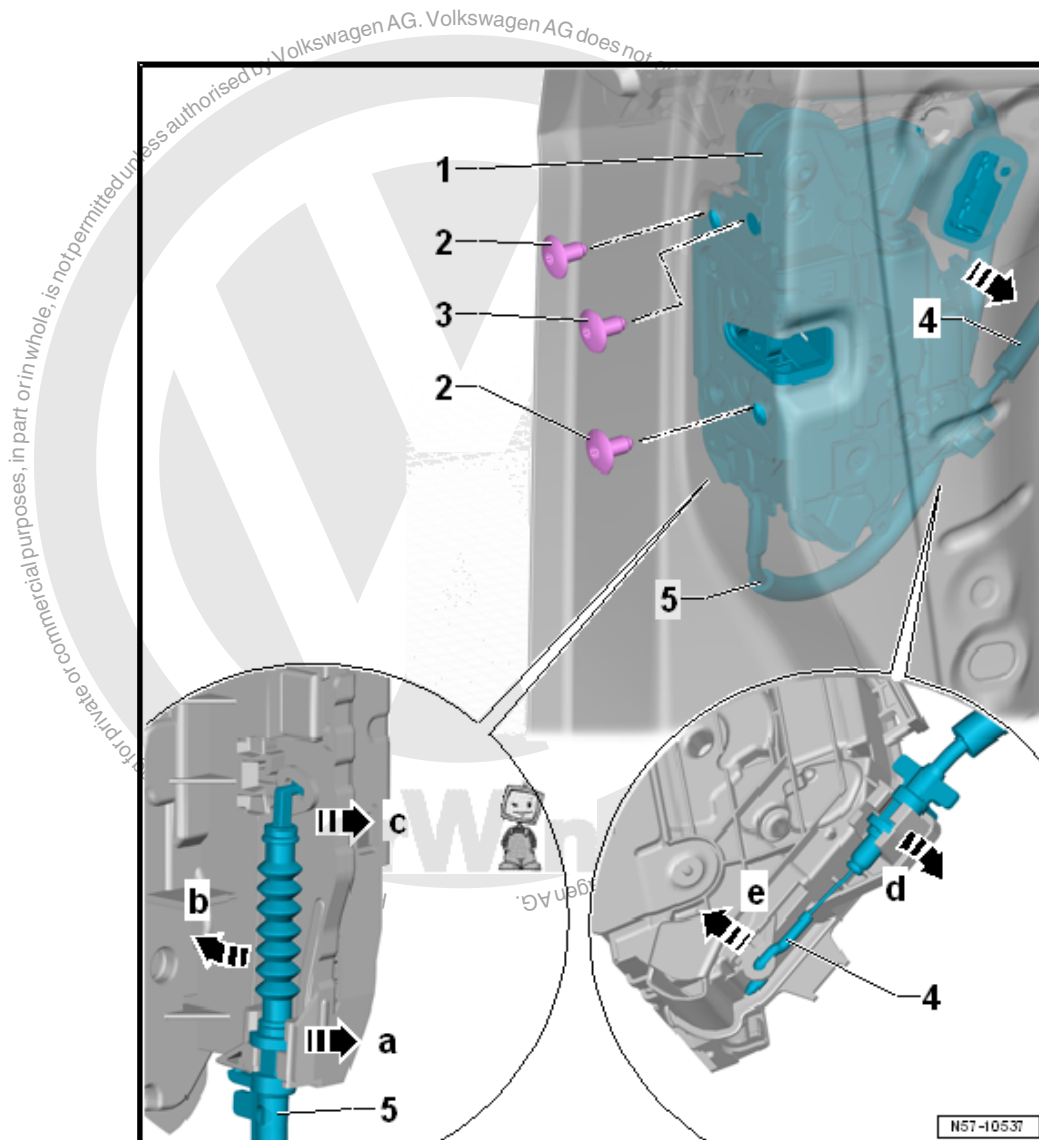
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-
- ◆ Cylinder Head Bolt Socket - 3410-



Note

- ◆ *The following describes removing and installing the left door lock. The right side is identical.*
- ◆ *The door window must be closed for the following work.*

Removing





- Remove the front door trim panel. Refer to ➤ Body Interior; Rep. Gr. 70 ; Front Door Trim Panels; Front Door Trim Panel, Removing and Installing .
- Remove the door inner cover. Refer to ➤ ["2.6 Door Inner Cover, Removing and Installing", page 111](#) .
- Remove the door handle. Refer to ➤ ["2.11 Door Handle, Removing and Installing", page 121](#) .
- If equipped, disconnect the connector.
- Remove the bolts -2-.
- Remove the door lock -1- from the door -arrow-.



Note

If necessary for the following work steps, loosen the cables.

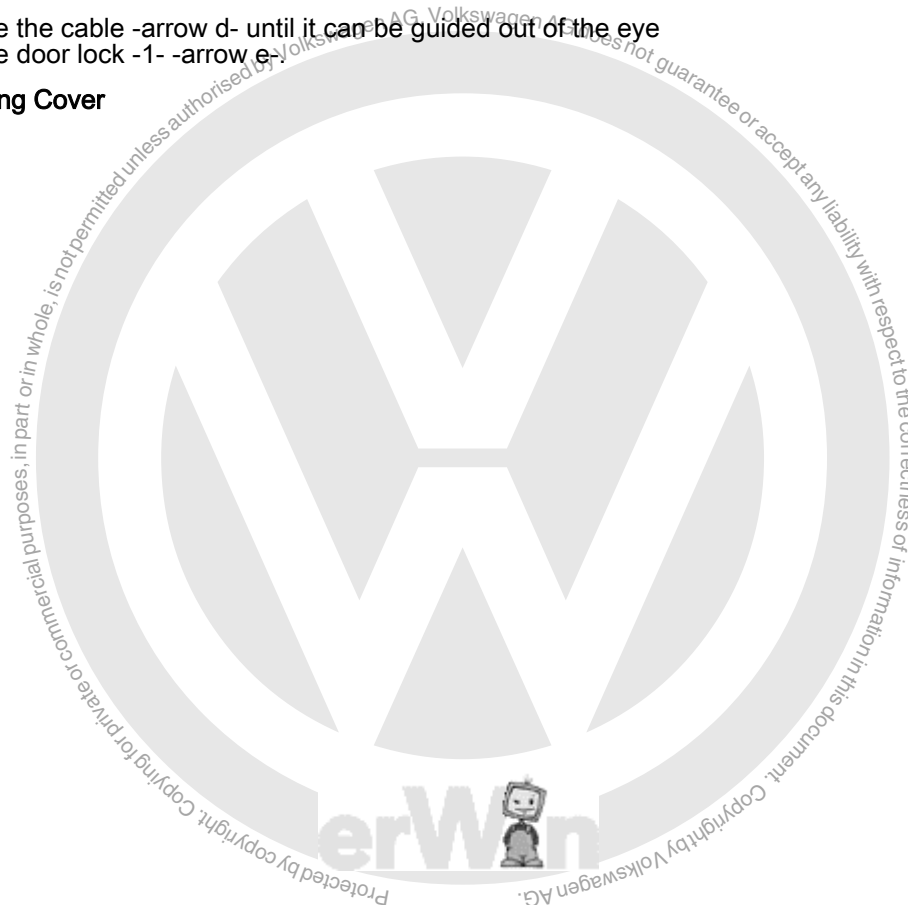
Loosening the Cable for the Bracket

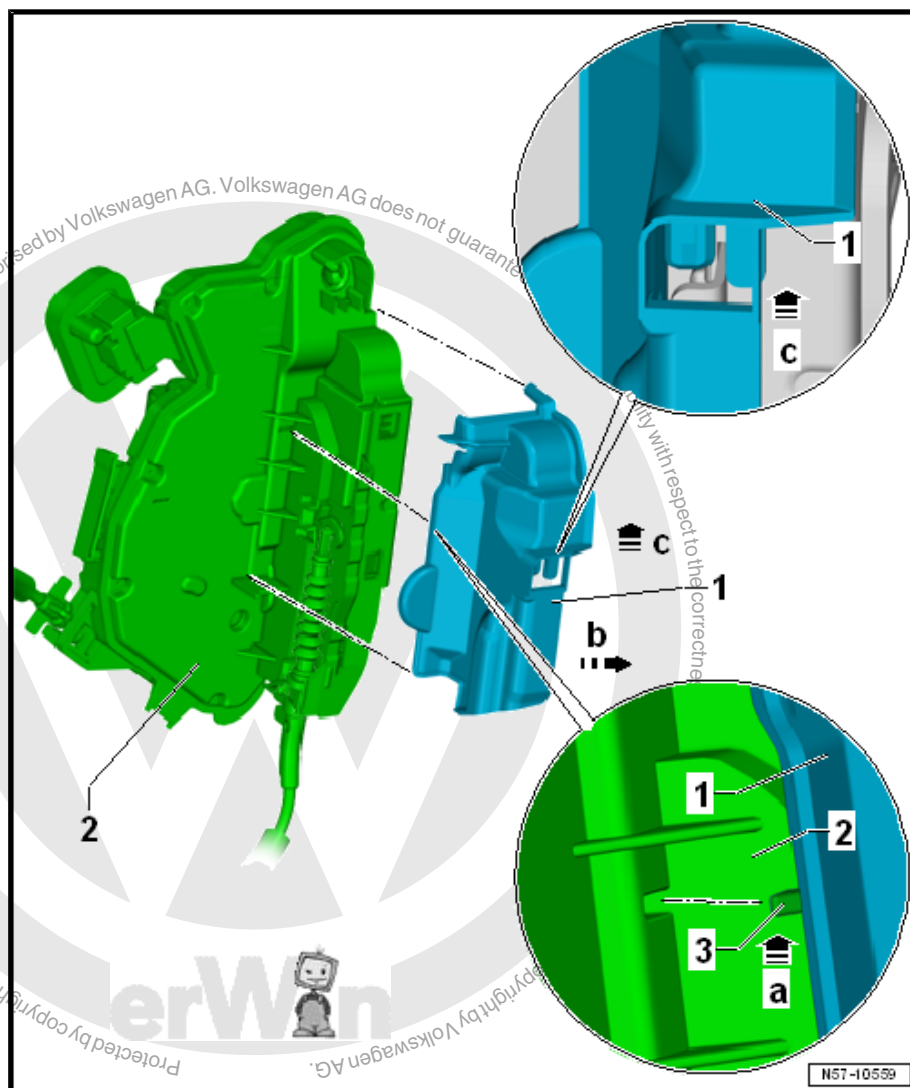
- Remove the cover. Refer to ➤ [page 127](#) .
- Turn the cable -5- 90° -arrow a- and remove it.
- Move the cable upward -arrow b- until it can be guided out of the eye in the door lock -1- -arrow c-.

Loosening the Cable for the Interior Door Mechanism

- Turn the cable -4- 90° and remove it.
- Move the cable -arrow d- until it can be guided out of the eye in the door lock -1- -arrow e-.

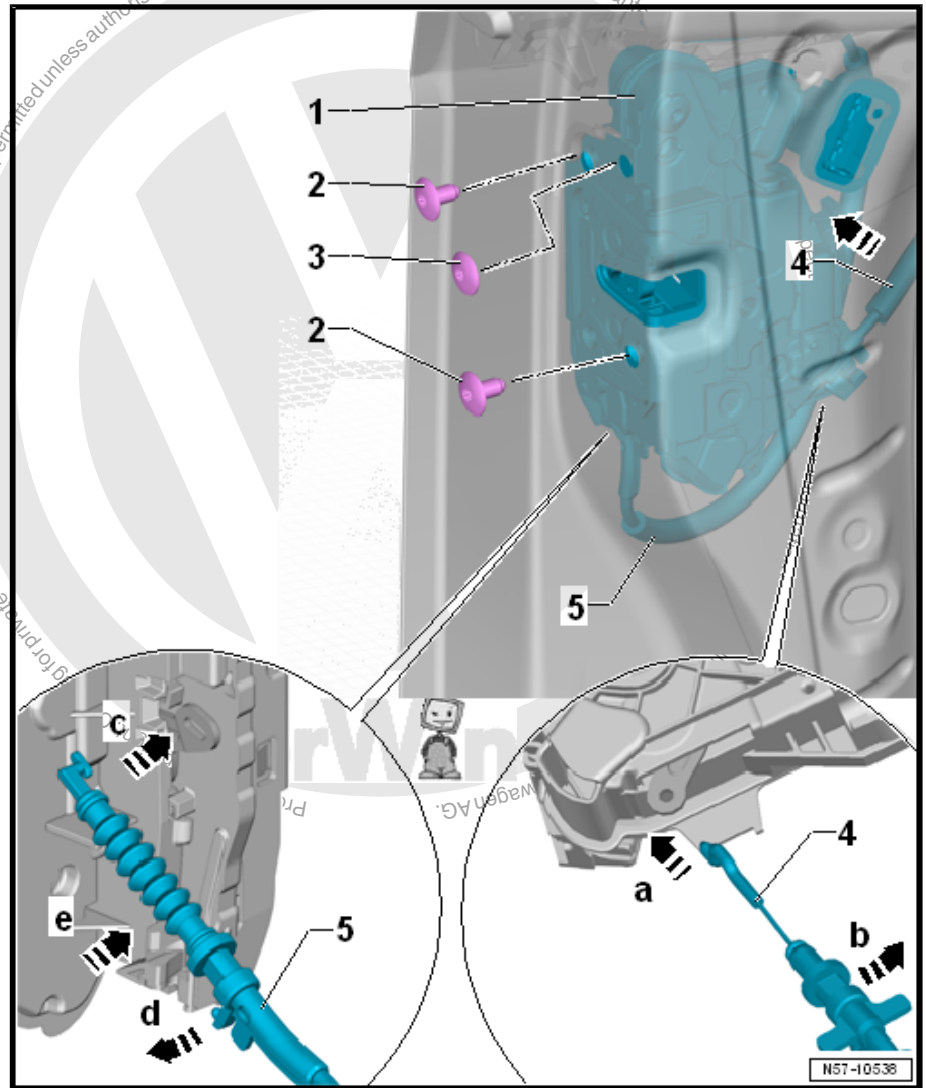
Removing Cover





- Open the hook -3- in direction of -arrow a-.
- Pull the cover -1- with the hook from the door lock -2- -arrow b-.
- Remove the cover -1- upward -arrow c- from the door lock -2-.

Installing



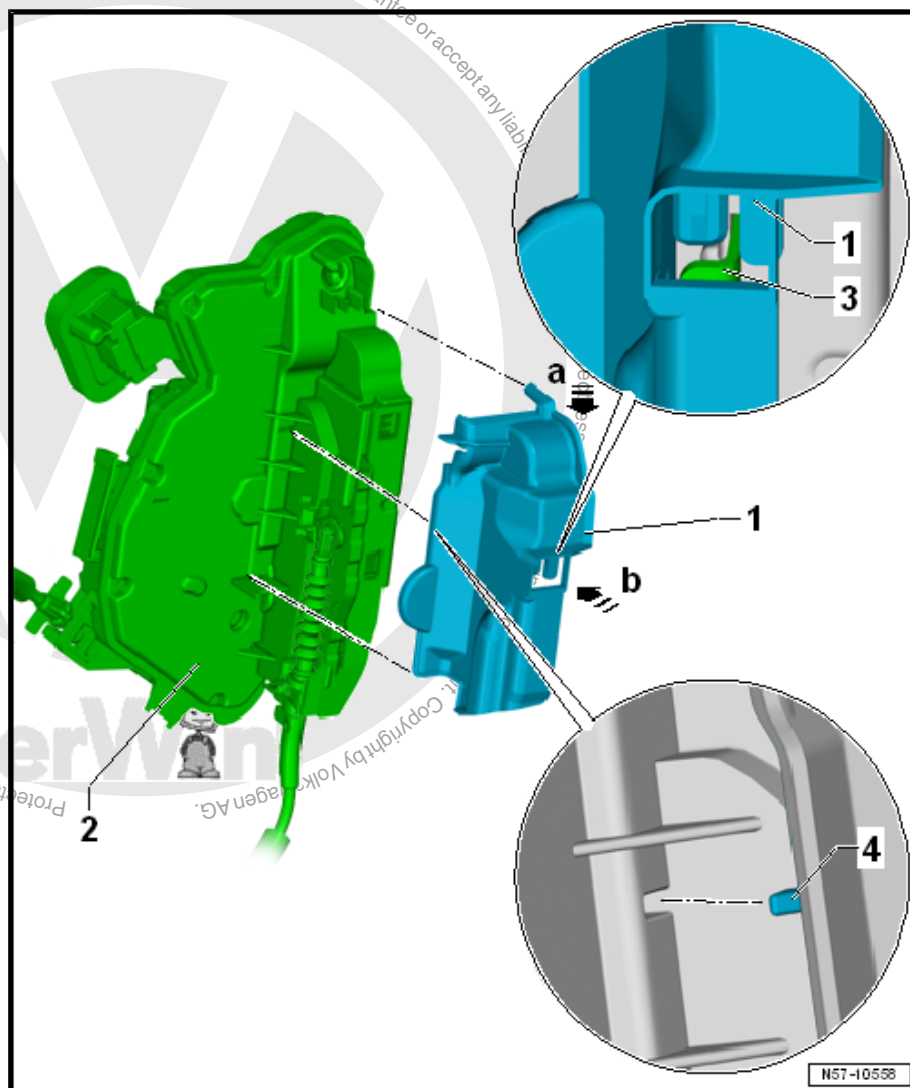
- Install the cables -4- and -5- to the door lock -1-.
- Install the cover. Refer to [⇒ page 129](#) .
- Insert the door lock -1- into the door.
- If equipped, connect the connector.
- Install the bolts -2-.
- Install the cap -3-.

Install in reverse order of removal.

Then a function test must be performed with door opened. The door lock will not unlock if the cables are not adjusted correctly and the door will not open.

Tightening Specifications

Installing the cover



- Push the mount -1- on the bracket -3- on the door lock -2- -arrow a-.
- Engage the catch -4- with the retainer -2- -arrow b-.

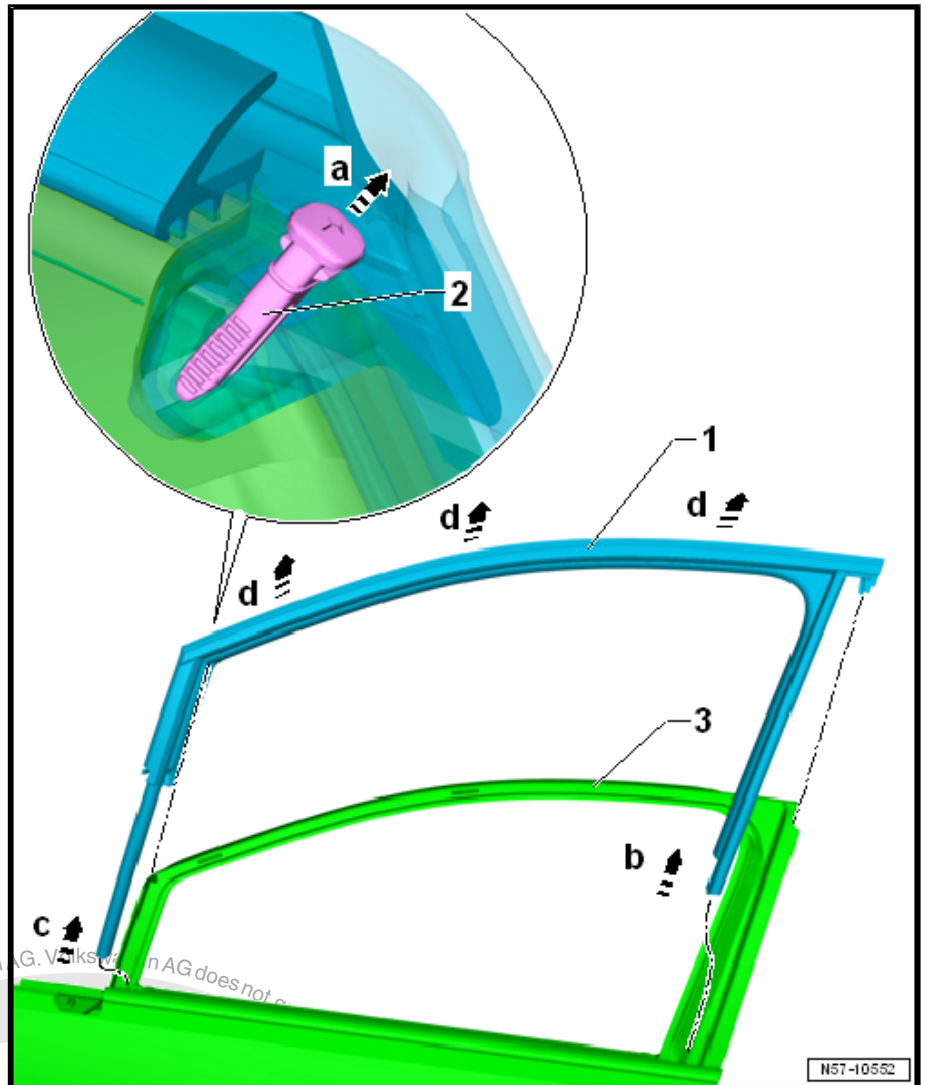
2.14 Window Guide, Removing and Installing



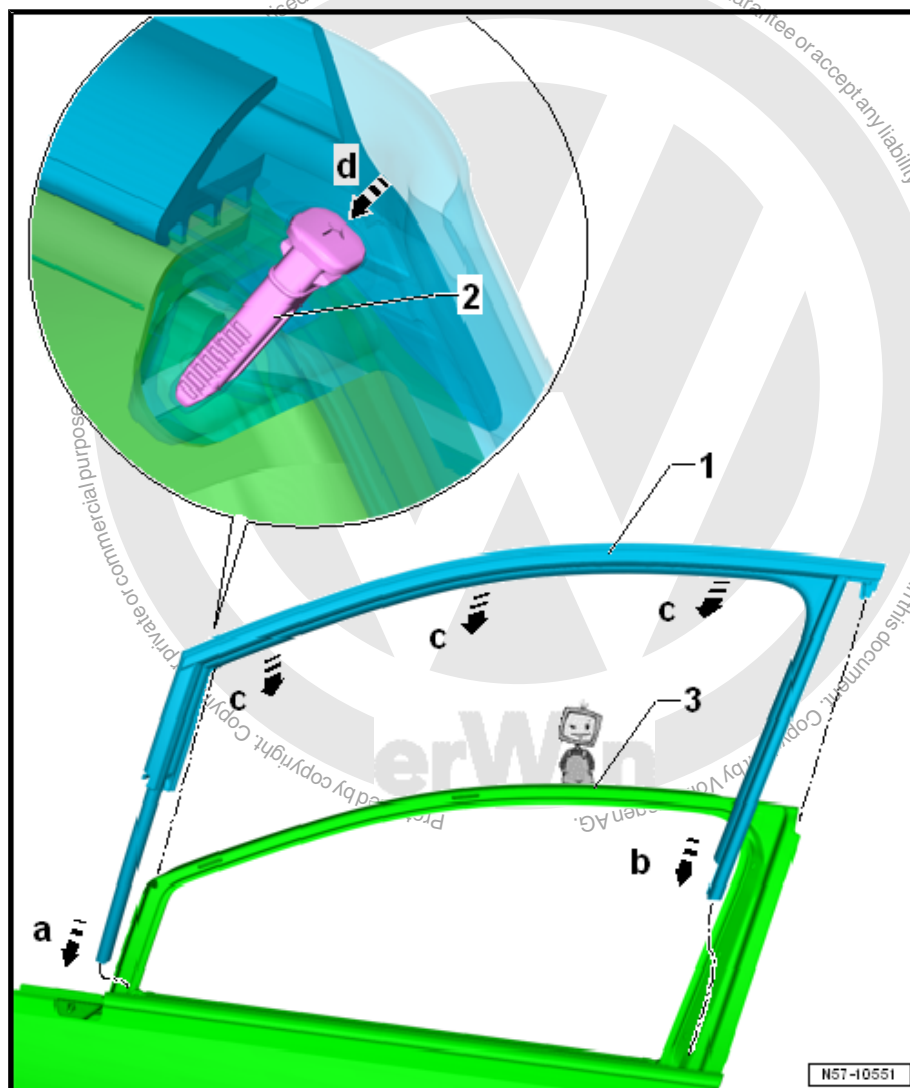
Note

- ♦ *The following describes removing and installing the left window guide. Removing and installing right window guide is identical.*
- ♦ *Do not bend the window guide when removing it.*

Removing



- Remove the inner window shaft strip. Refer to
⇒ ["2.16 Inner Window Shaft Strip, Removing and Installing",
page 135](#) .
- Remove the outer window shaft strip. Refer to
⇒ ["2.15 Outer Window Shaft Strip, Removing and Installing",
page 133](#) .
- Remove B-pillar trim. Refer to
⇒ ["3.6 Front Door B-Pillar Trim, Removing and Installing",
page 348](#)
- Remove the exterior mirror. Refer to
⇒ ["6.2 Exterior Rearview Mirror, Removing and Installing",
page 372](#)
- Remove the securing pin -2- -arrow a-.
- Roll the sealing lip on the window guide -1- off the door flange.
- Remove the window guide -1- from the door mount
-b and c arrows-.
- Remove the window guide -1- -arrows d- from the door flange
-3-.



- Spray the window guide with soapy water to make it easier to install.
- Push the window guide -1- in the door mount -a and b arrows-.
- Install the window guide -1- forward moving along the door flange -c arrows-.
- Pull the sealing lip on the window guide onto the door flange.
- Push in the securing pin -2- -arrow d-.



Note

Make sure the window guide -1- fits evenly when installing it (wind noises).

Install in reverse order of removal.



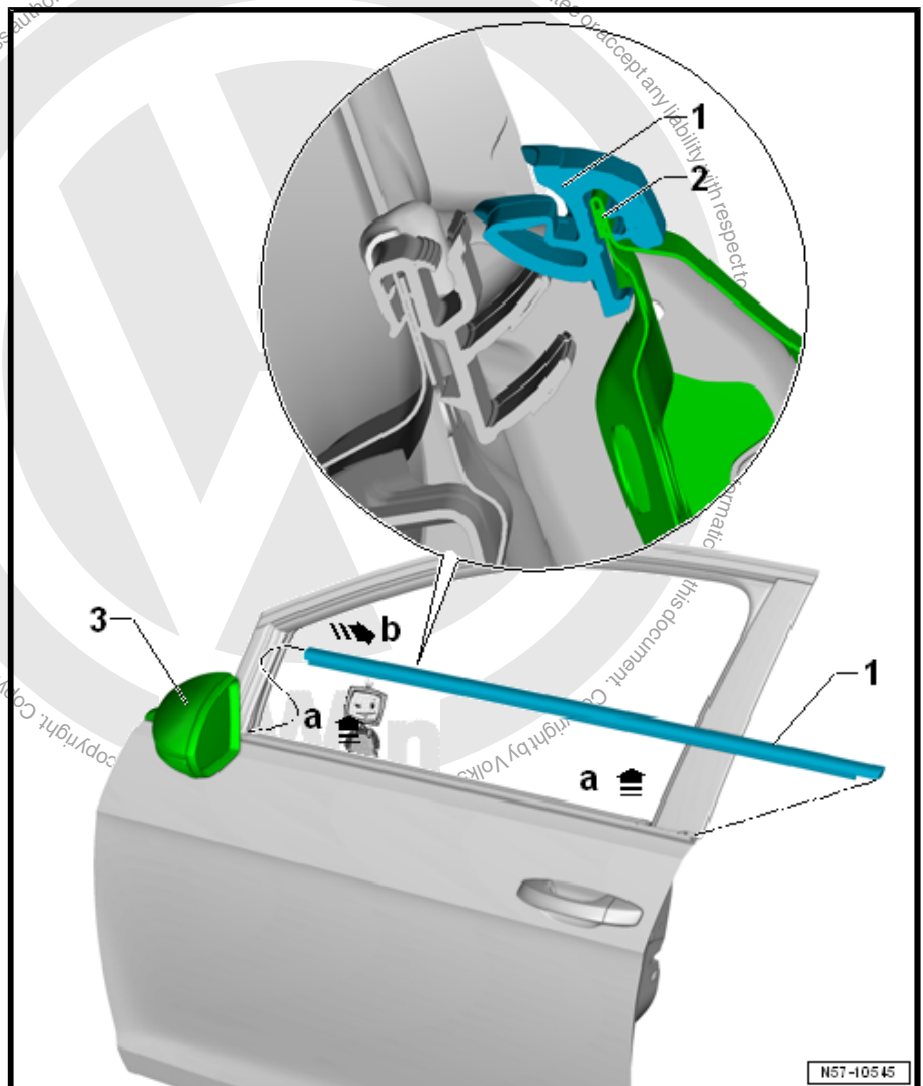
2.15 Outer Window Shaft Strip, Removing and Installing

Removing



Note

- ◆ The outer window shaft strip has a metal insert in the center.
- ◆ If it gets bent, it will not be possible to straighten it out again. It will remain "wavy".
- ◆ This is why the outer window shaft strip must be removed evenly without bending it.
- ◆ The following describes removing and installing the left outer window shaft strip. Removing and installing right window shaft strip is identical.

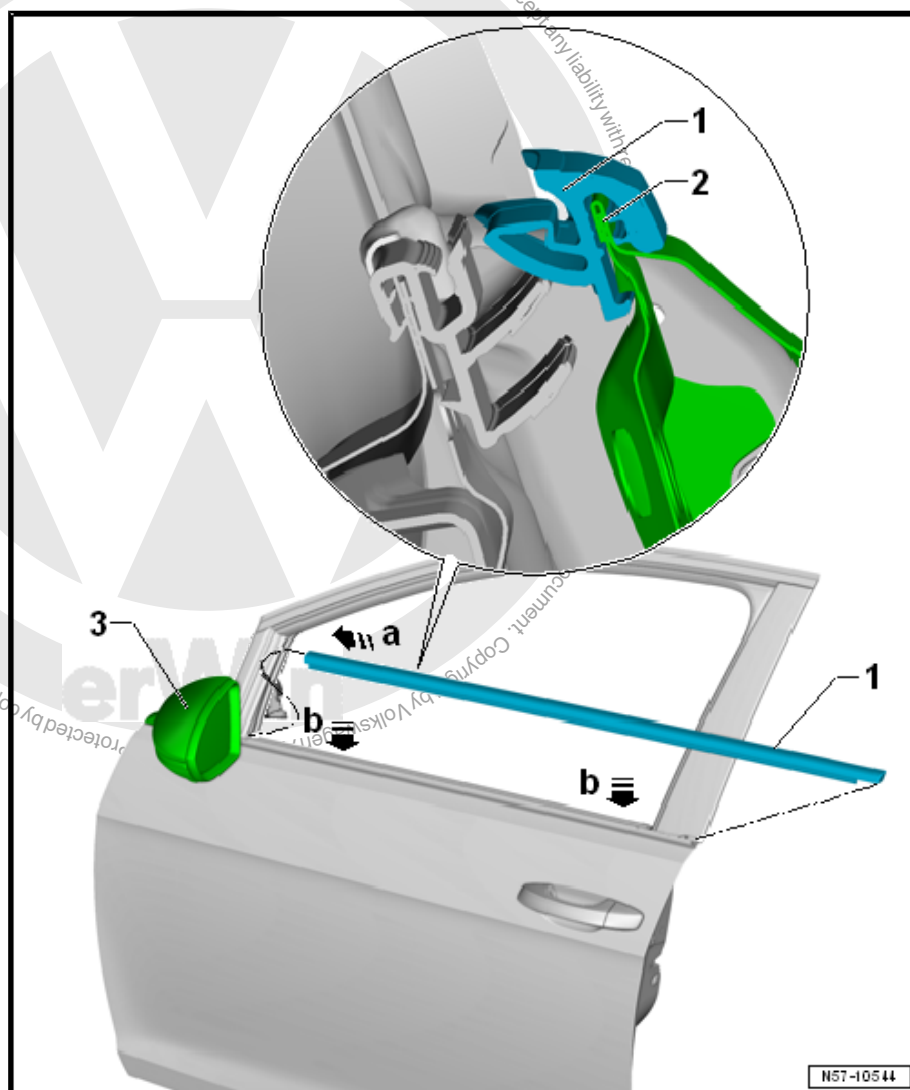


- Slightly remove the outer window shaft strip -1- evenly from the door flange -2- -a arrows-. Do not bend the strip while doing so.



- Pull forward the outer window shaft strip -1- under the exterior rearview mirror -3- -arrow b-

Installing



Note

- ♦ It is permissible to use assembly aids.
- ♦ Do not use any impact tools to install the outer window shaft strip.
- Push the window shaft strip -1- under the exterior rearview mirror -3- -arrow a-
- Align the outer window shaft strip -1- on the B-pillar and at the same time push on the door flange -2- -b arrows-

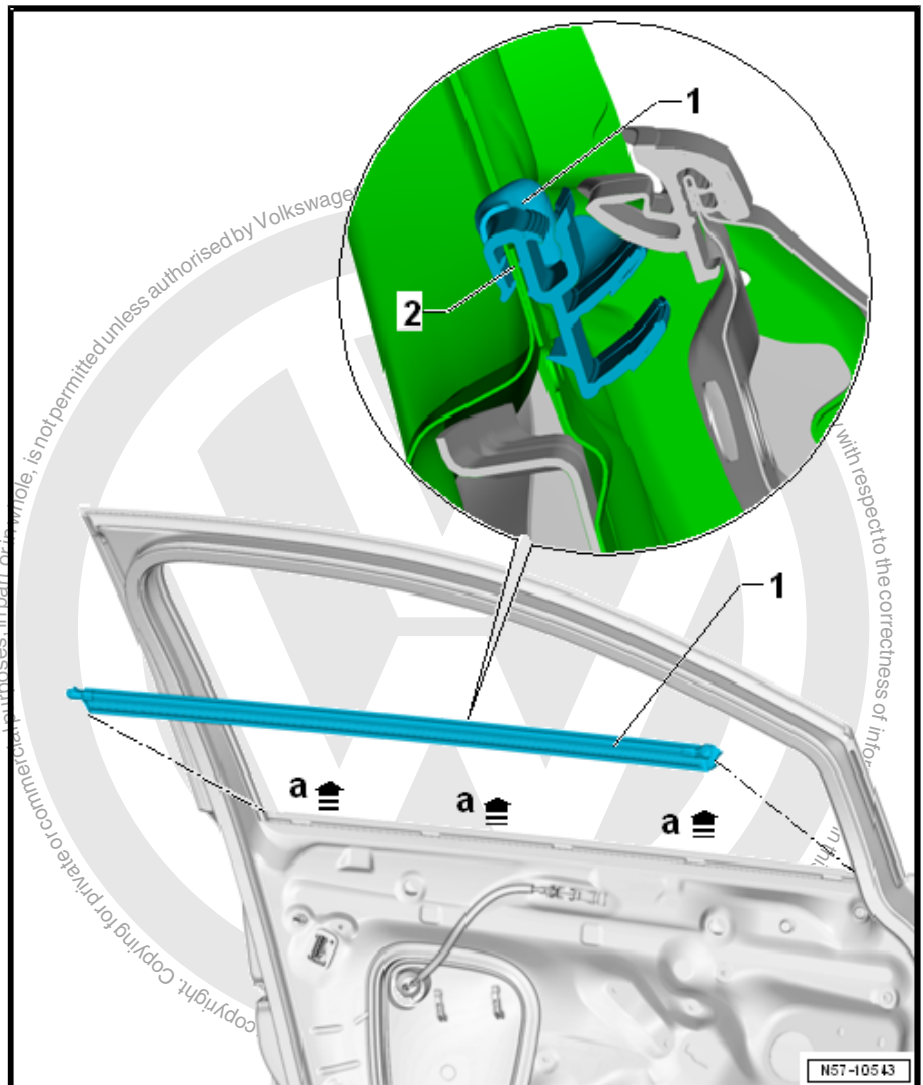


2.16 Inner Window Shaft Strip, Removing and Installing



Note

The following describes removing and installing the left inner window shaft strip. Removing and installing right window shaft strip is identical.



Removing

- Remove the front door trim panel. Refer to ➤ Body Interior; Rep. Gr. 70 ; Front Door Trim Panels; Front Door Trim Panel, Removing and Installing .
- Pry the inner window shaft strip -1- evenly and without bending from the flange -2-.

Installing

- Center the inner window shaft strip -1- and push on the front door flange -2- evenly -a arrows- by hand.



3 Central Locking

⇒ [“3.1 Component Location Overview - Central Locking”, page 136](#)

⇒ [“3.2 Vehicle Key Battery, Removing and Installing”, page 138](#)

⇒ [“3.3 Ignition Key Cap, Removing and Installing”, page 140](#)

3.1 Component Location Overview - Central Locking

1 - Connector Station

- ❑ Installed location: right A-pillar
- ❑ Loosen the boot on the pillar to disconnect the connector

2 - Vehicle Electrical System Control Module - J519-

- ❑ Installed location: under the instrument panel on the driver side
- ❑ Removing. Refer to ⇒ [Electrical Equipment; Rep. Gr. 97](#) ; Control Modules; Component Location Overview - Control Modules .

3 - Front Passenger Door Control Module - J387-

- ❑ Installed separate from the window regulator motor in the door.

4 - Right Front Door Lock

- ❑ The door lock is attached to the door inner panel.
- ❑ The power central locking system is integrated in door lock.
- ❑ Removing. Refer to ⇒ [“2.13 Door Lock, Removing and Installing”, page 126](#) .

5 - Connector Station

- ❑ Installed location: right B-pillar
- ❑ Loosen the boot on the pillar to disconnect the connector

6 - Driver Door Control Module - J386-

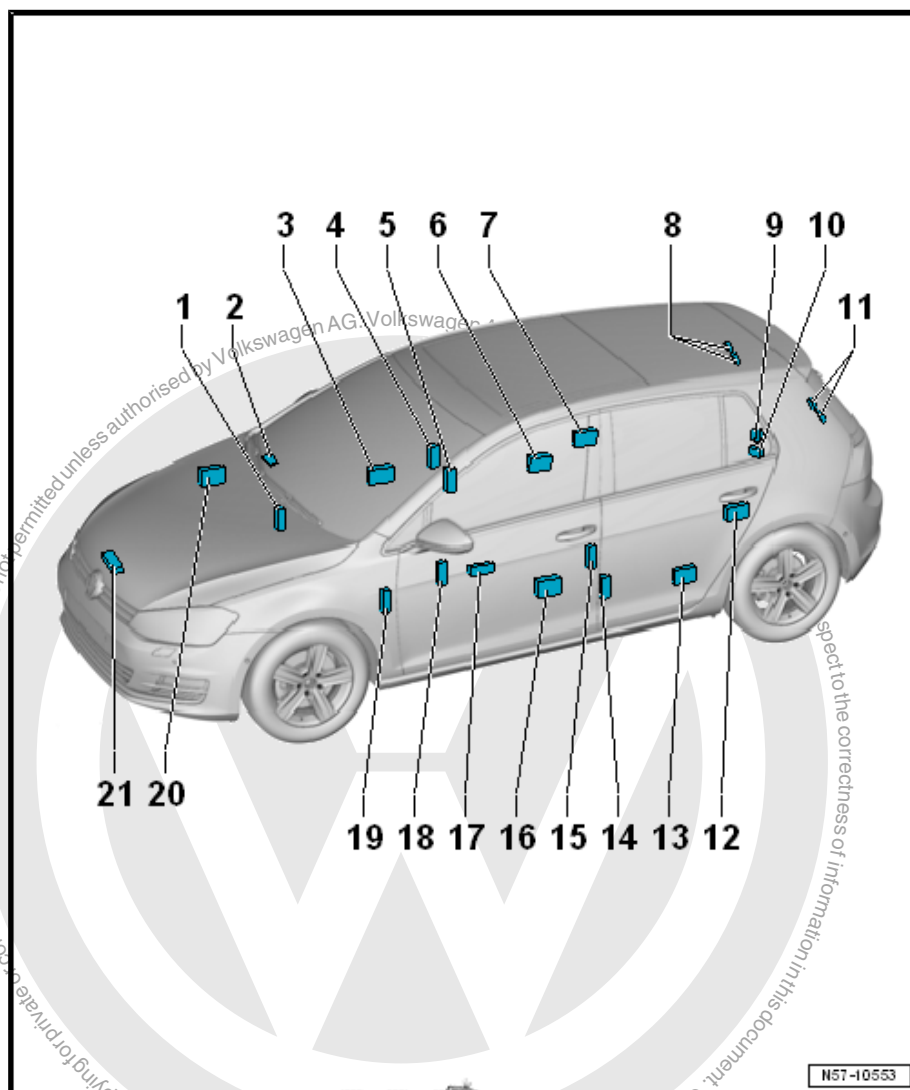
- ❑ Installed separate from the window regulator motor in the door.

7 - Right Rear Door Lock

- ❑ The door lock is attached to the door inner panel.
- ❑ The power central locking system is integrated in door lock.
- ❑ Removing. Refer to ⇒ [“2.12 Door Lock, Removing and Installing”, page 175](#) .

8 - Right Rear Lid Connector Station

- ❑ Installed location: Behind the C-pillar trim





- ☐ Removing and installing. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Passenger Compartment Trim; C-Pillar Trim Panel, Removing and Installing .

9 - Unlocking Element with Button

- ☐ Installed location: Bolted into the rear lid
- ☐ Removing. Refer to ⇒ [“2.5 Actuator, Removing and Installing”, page 64](#) .

10 - Rear Lid Latch

- ☐ Installed location: attached to the rear lid
- ☐ Removing. Refer to ⇒ [“2.4 Hood Latch, Removing and Installing”, page 62](#) .

11 - Left Rear Lid Connector Station

- ☐ Installed location: Behind the C-pillar trim
- ☐ Removing and installing. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Passenger Compartment Trim; C-Pillar Trim Panel, Removing and Installing .

12 - Left Rear Door Lock

- ☐ The door lock is attached to the door inner panel.
- ☐ The power central locking system is integrated in door lock.
- ☐ Removing. Refer to ⇒ [“2.12 Door Lock, Removing and Installing”, page 175](#) .

13 - Left Rear Door Control Module - J388-

- ☐ Installed separate from the window regulator motor in the door.

14 - Connector Station

- ☐ Installed location: left B-pillar
- ☐ Loosen the boot on the pillar to disconnect the connector

15 - Left Front Door Lock

- ☐ The door lock is attached to the door inner panel.
- ☐ The power central locking system is integrated in door lock.
- ☐ Removing. Refer to ⇒ [“2.13 Door Lock, Removing and Installing”, page 126](#) .

16 - Driver Door Control Module - J386-

- ☐ Installed separate from the window regulator motor in the door.

17 - Central Switch for Window Regulator

- ☐ Installed location: inside the door trim panel
- ☐ Window regulator central switch removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 96 ; Controls; Component Location Overview - Front Door Controls .

18 - Central Locking Button

- ☐ Installed location: inside the door trim panel
- ☐ Removing and installing the central locking button. Refer to ⇒ Electrical Equipment; Rep. Gr. 96 ; Controls; Component Location Overview - Front Door Controls .

19 - Connector Station

- ☐ Installed location: left A-pillar
- ☐ Loosen the boot on the pillar to disconnect the connector

20 - Alarm Horn - H12-

- ☐ Removing. Refer to ⇒ Electrical Equipment; Rep. Gr. 96 ; Anti-theft Alarm System; Alarm Horn H12, Removing and Installing .

21 - Engine Hood Contact Switch - F266-

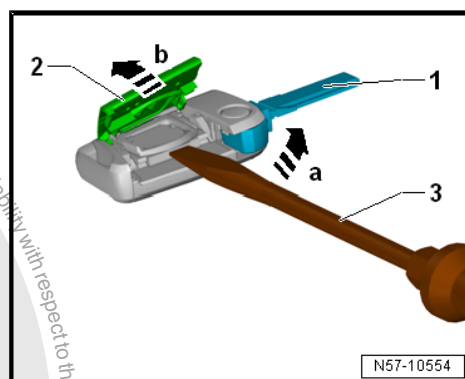
- ☐ Anti-theft warning system contact switch
- ☐ Installed location: on the latch
- ☐ Removing. Refer to ⇒ [“1.5 Hood Latch, Removing and Installing”, page 36](#) .



3.2 Vehicle Key Battery, Removing and Installing

Removing

- Found out the key -1- -arrow a-.
- Pry up the battery compartment cover -2- using a small screwdriver -3- -arrow b-.



- With a small screwdriver -3- pry up the battery -1- from the battery compartment -2- -arrow-.

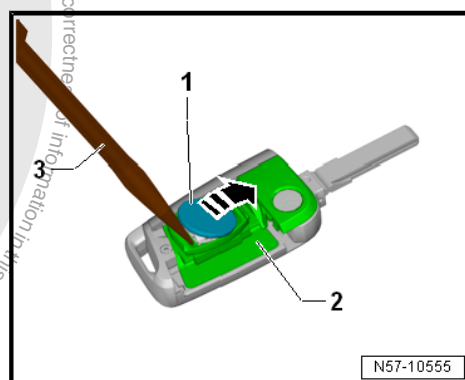
Installing



Note

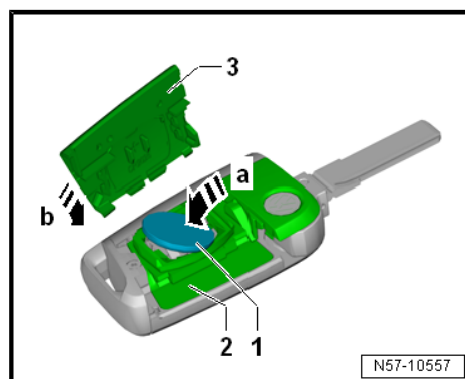
- ◆ Before installing the battery, one of the buttons must be pushed.
- ◆ The container now recognizes the new battery.

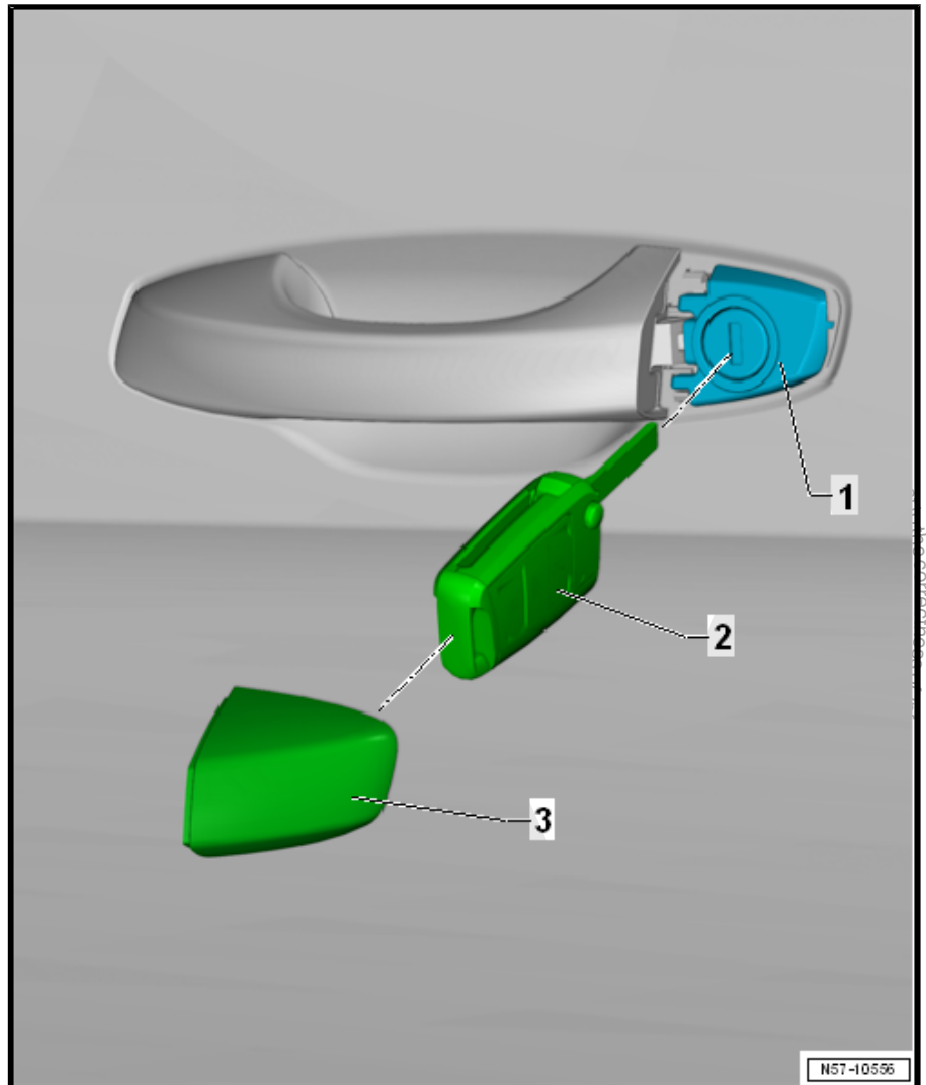
Note polarity and installation position of battery when installing.
The positive terminal is marked.



- Press the battery -1- lightly -arrow a- in the battery compartment -2-.
- Push together the battery compartment -3- and the radio-frequency unit -arrow b-.
- The ignition key must now be synchronized. Refer to [⇒ page 138](#).

Ignition Key Synchronizing

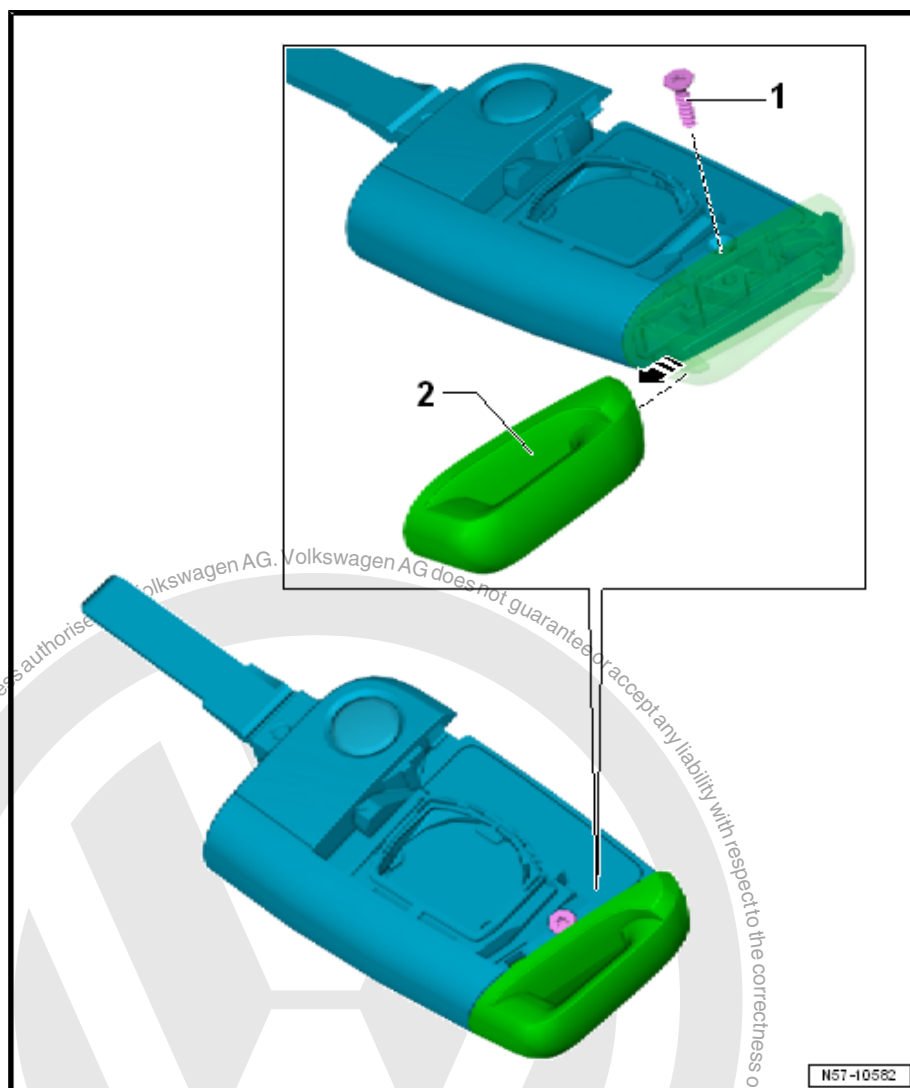




- Remove the lock cylinder cap -3-. Refer to ["2.8 Cap, Removing and Installing, for the Lock Cylinder", page 113](#).
- Hold the ignition key -2- at the lock cylinder -1- and push the "open" button.
- Within one minute lock the vehicle with the ignition key -2- using the lock cylinder -1-.



3.3 Ignition Key Cap, Removing and Installing



Removing

- Pry up the battery compartment cover. Refer to [⇒ "3.2 Vehicle Key Battery, Removing and Installing", page 138](#).
- Remove the bolt -1-.
- Remove the cap -2- at the side from the ignition key -arrow-.

Installing



Note

The threads for the new cap are cut in by the bolt -1-.

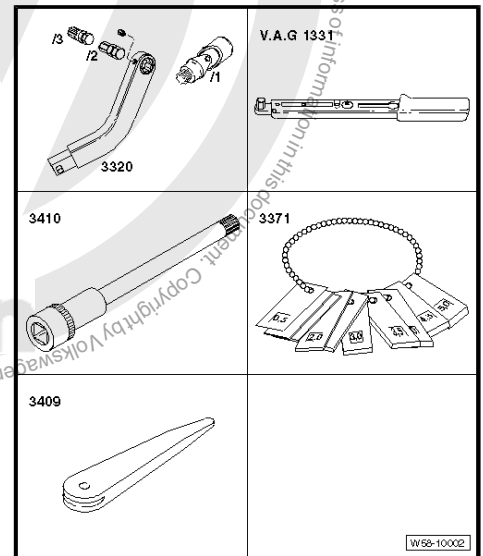
- Push the cap -2- sideways on the ignition key.
- Install the bolt -1-.
- Push on the battery compartment cover.



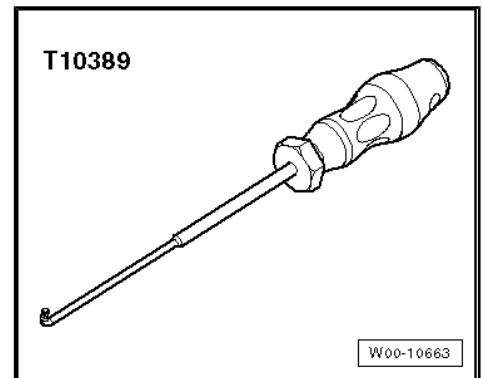
4 Special Tools

Special tools and workshop equipment required

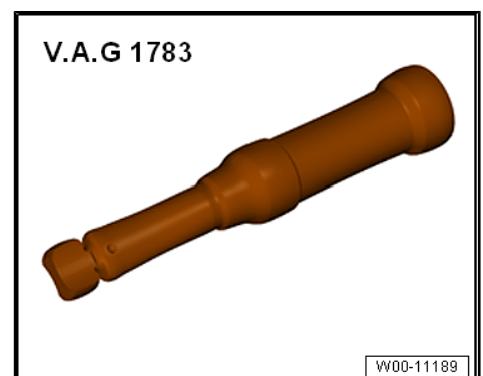
- ◆ Wrench - Door Adjusting - 3320-
- ◆ Joint for 3320 Tool - 3320/1-
- ◆ Wrench - Door Adjusting - Box Wrench - 3320/2-
- ◆ Wrench - Door Adjusting - Box Wrench - 3320/3-
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-
- ◆ Cylinder Head Bolt Socket - 3410-
- ◆ Gauge - Gap Adjustment - 3371-
- ◆ Trim Removal Wedge - 3409-



- ◆ Lock Cylinder Housing Assembly Tool - T10389-



- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-





58 – Rear Doors

1 Door

⇒ ["1.1 Overview - Door", page 142](#)

⇒ ["1.2 Door, Removing and Installing", page 144](#)

⇒ ["1.3 Door, Adjusting", page 147](#)

⇒ ["1.4 Catch, Adjusting", page 149](#)

⇒ ["1.5 Door Arrester, Removing and Installing", page 150](#)

⇒ ["1.6 Inner Door Seal, Removing and Installing", page 152](#)

1.1 Overview - Door



Note

- ◆ The illustration shows the left side. The right side is identical.
- ◆ After replacing the B-pillar the bolts -2 and 5- as well as -14 and 17- are to be tightened to another tightening specification.

1 - Rear Door

- ❑ Removing and installing. Refer to
⇒ ["1.2 Door, Removing and Installing", page 144](#).
- ❑ Adjusting. Refer to
⇒ ["1.3 Door, Adjusting", page 147](#).

2 - Bolt

- ❑ 50 Nm
- ❑ Loosening one time to adjust the door is permissible, after further loosening replace.
- ❑ Installed from the inside of the vehicle
- ❑ For removing and installing the B-pillar lower trim panel must be removed.

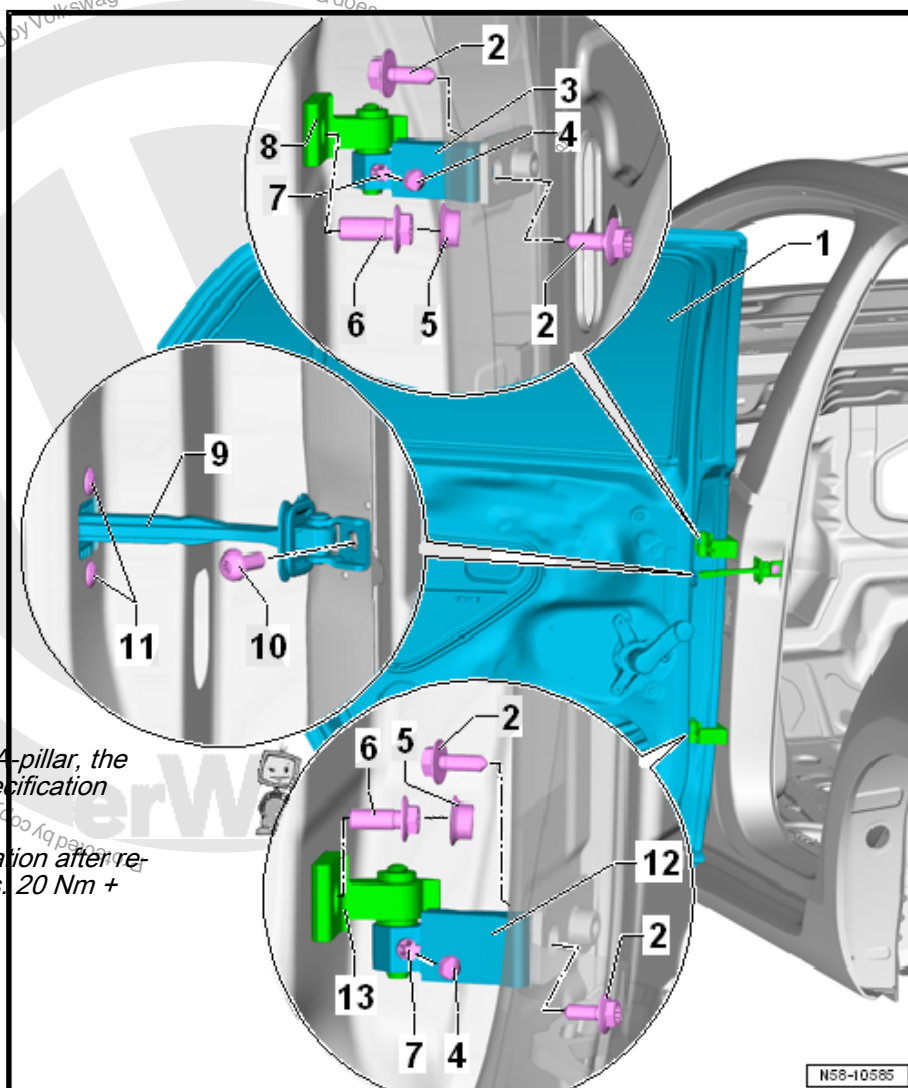


Note

- ◆ After replacing the A-pillar, the other tightening specification must be observed.
- ◆ Tightening specification after replacing the A-pillars: 20 Nm + 90°

3 - Door Hinge

- ❑ Hinge is divided
- ❑ A bolt -8- attaches the lower section to the up-



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per section.

4 - Cap

- ☐ For the bolt -8-

5 - Bolt

- ☐ 50 Nm
- ☐ Loosening one time to adjust the door is permissible, after further loosening replace.
- ☐ Installed from the inside of the vehicle
- ☐ For removing and Installing the B-pillar lower trim panel must be removed.



Note

- ◆ *After replacing the A-pillar, the other tightening specification must be observed.*
- ◆ *Tightening specification after replacing the A-pillars: 20 Nm + 90°*

6 - Cap

- ☐ For the bolt -7-

7 - Bolt

- ☐ 50 Nm
- ☐ Always replace, loosening one time to adjust the door is permissible

8 - Bolt

- ☐ 23 Nm
- ☐ Connects the upper section of the hinge to the lower section of the hinge

9 - Door Hinge

- ☐ The hinge has two sections.
- ☐ A bolt -8- attaches the upper section to the lower section.

10 - Bolt

- ☐ 30 Nm

11 - Bolt

- ☐ 9 Nm
- ☐ Quantity: 2

12 - Door Arrester

- ☐ Removing and installing. Refer to ➤ ["1.5 Door Arrester, Removing and Installing", page 150](#) .

13 - Door Hinge

- ☐ Hinge is divided
- ☐ A bolt -8- attaches the lower section to the upper section.

14 - Bolt

- ☐ 50 Nm
- ☐ Loosening one time to adjust the door is permissible, after further loosening replace.
- ☐ Installed from the inside of the vehicle
- ☐ For removing and Installing the B-pillar lower trim panel must be removed.



Note

- ◆ *After replacing the A-pillar, the other tightening specification must be observed.*



- ◆ *Tightening specification after replacing the A-pillars: 20 Nm + 90°*

15 - Door Hinge

- ☐ The hinge has two sections.
- ☐ A bolt -8- attaches the upper section to the lower section.

16 - Bolt

- ☐ 50 Nm
- ☐ Always replace, loosening one time to adjust the door is permissible

17 - Bolt

- ☐ 50 Nm
- ☐ Loosening one time to adjust the door is permissible, after further loosening replace.
- ☐ Installed from the inside of the vehicle
- ☐ For removing and installing the B-pillar lower trim panel must be removed.



Note

- ◆ *After replacing the A-pillar, the other tightening specification must be observed.*
- ◆ *Tightening specification after replacing the A-pillars: 20 Nm + 90°*

1.2 Door, Removing and Installing

Special tools and workshop equipment required

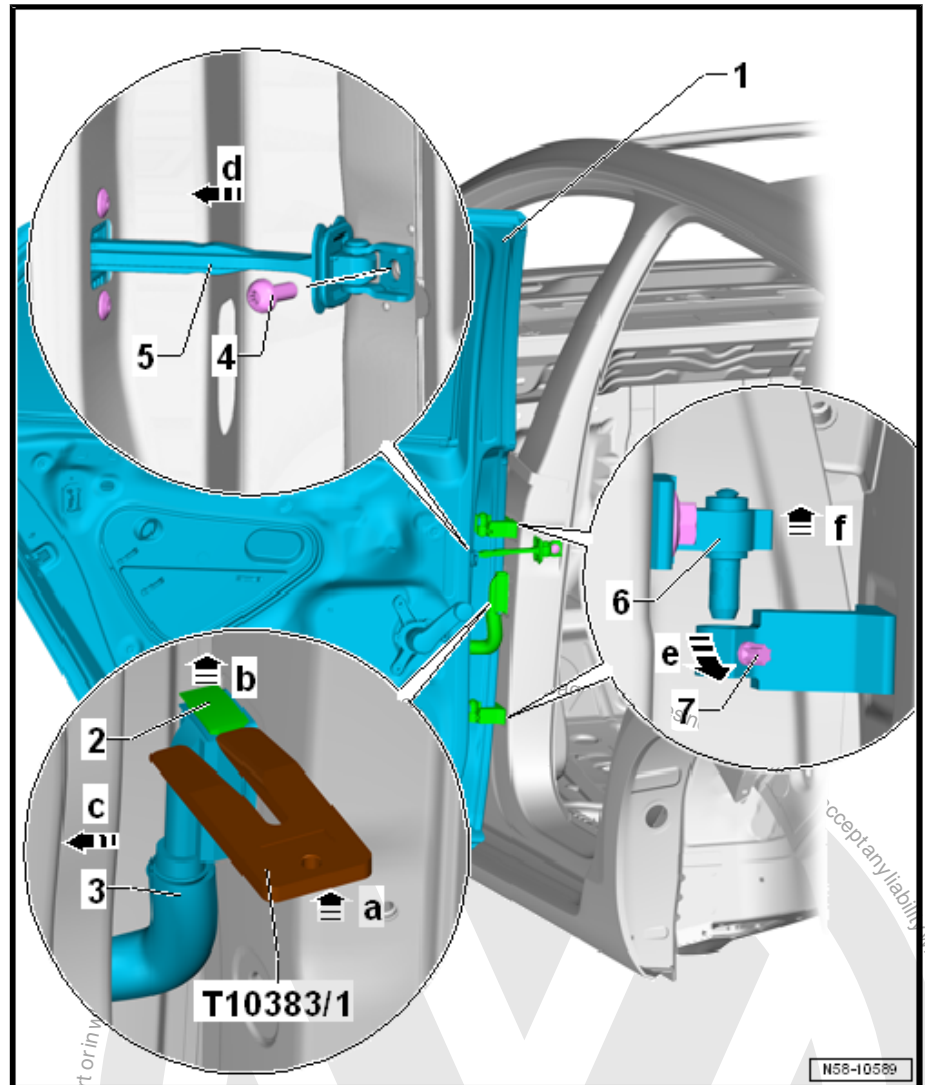
- ◆ Wrench - Door Adjusting - 3320-
- ◆ Joint for 3320 Tool - 3320/1-
- ◆ Wrench - Door Adjusting - Box Wrench - 3320/2-
- ◆ Wrench - Door Adjusting - Box Wrench - 3320/3-
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-
- ◆ Cylinder Head Bolt Socket - 3410-
- ◆ Gauge - Gap Adjustment - 3371-
- ◆ Trim Removal Wedge - 3409-



Note

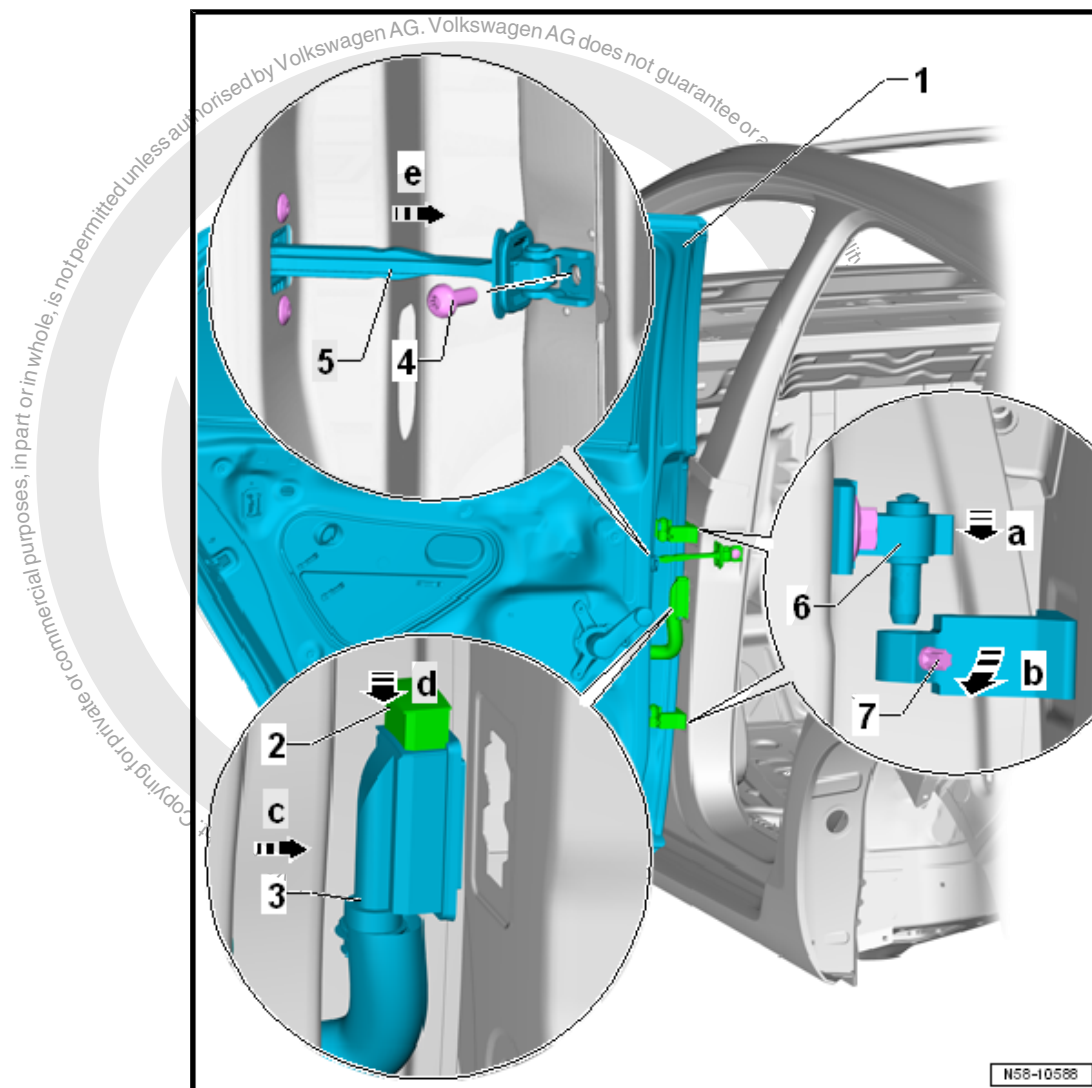
*The following describes removing and installing the left rear door.
Removing and installing the right rear door is identical.*

Removing



- Push the Wedge Set - 1 - T10383/1- between the bellow -3- and the locking mechanism -2- -arrow a-.
- Push the locking mechanism -2- with the Wedge Set - T10383/1- upward -arrow b- and disconnect the connector -3- from the connector station -arrow c-.
- If equipped, pry up the bolt cover -7-.
- Loosen the bolts -7- on the hinges -arrow e-, but do not remove.
- Remove the bolt -4- from the door strap -6-.
- Push the door strap -6- toward the inside -arrow d-.
- Lift the door -1- together the upper parts of the hinge -6- upward -arrow f- from the lower hinge parts.

Installing



Install in reverse order of removal. While doing so pay attention to the following:



Caution

The door strap bracket must be folded in toward the inside of the vehicle (to prevent damaging the paint) before installing the rear door.



Note

The hinge arms must be flush with each other after installing the rear door.

- Adjust the rear door -1-. Refer to [⇒ "1.3 Door, Adjusting", page 147](#).
- Pay attention the gap dimensions for the front door -1-. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .



Tightening Specifications

1.3 Door, Adjusting

Special tools and workshop equipment required

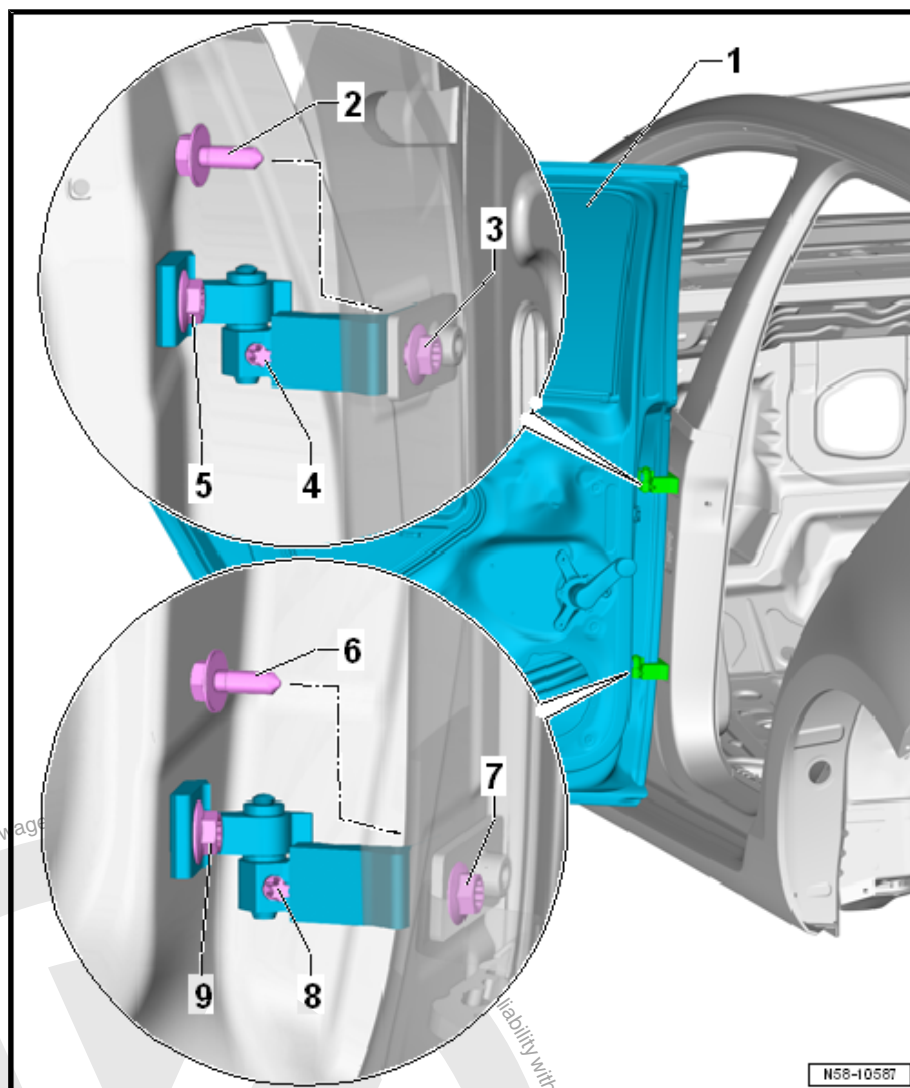
- ◆ Wrench - Door Adjusting - 3320-
- ◆ Joint for 3320 Tool - 3320/1-
- ◆ Wrench - Door Adjusting - Box Wrench - 3320/2-
- ◆ Wrench - Door Adjusting - Box Wrench - 3320/3-
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-
- ◆ Cylinder Head Bolt Socket - 3410-
- ◆ Gauge - Gap Adjustment - 3371-
- ◆ Trim Removal Wedge - 3409-



Note

- ◆ *The following describes adjusting the left rear door. Adjusting the right rear door is identical.*
- ◆ *The vehicle must be standing on its wheels in order to adjust the door.*
- ◆ *The rear door is properly adjusted when there is an overall even gap dimension when closed. It is not too far inward or outward and contours align. The contours line up.*
- ◆ *Checking the gap dimensions. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .*
- ◆ *Apply corrosion protection to the hinges and bolts after assembling or adjusting.*





Adjusting the gap dimensions

For correct gap dimension adjustment, screws -2-, -3-, -6- and -7- at B-pillar must be loosened.

- For the bolts -3 and 7-, the B-pillar lower trim panel must be removed.

Flush adjustment

The bolts -5- and -9- must be loosened in order to correctly adjust the flush dimension.

For this, the Wrench - Door Adjusting - 3320- with the bit insert must be used.



Note

Other measures, such as aligning the rear door upward, are not effective. Pressure later will cause the rear door to sag again.

- Adjust the catch. Refer to
⇒ [“1.4 Catch, Adjusting”, page 149](#) .



Tightening Specifications

1.4 Catch, Adjusting

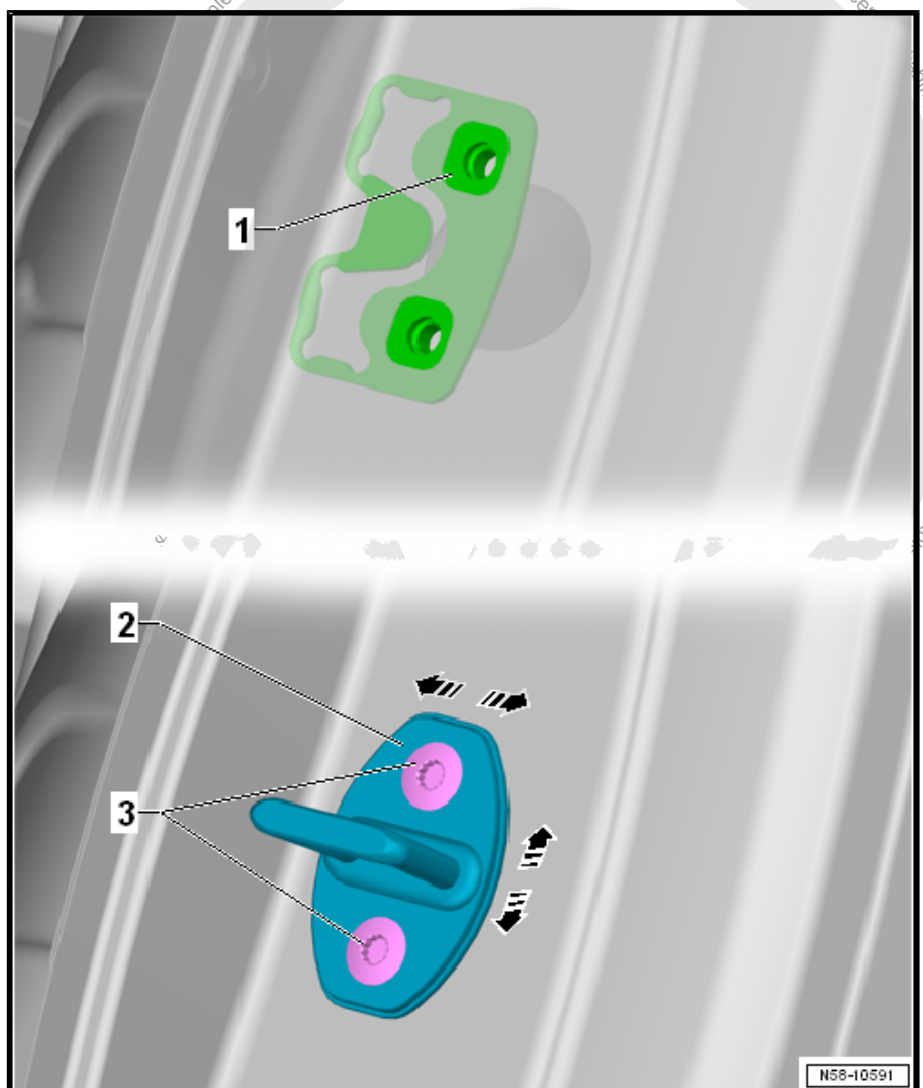
Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm - VAG1331-
- ◆ Cylinder Head Bolt Socket - 3410-



Note

- ◆ The threaded plate -1- of the striker pin in the column is secured differently than previously.
- ◆ The arch outside the threaded plate is welded to the column. The bars to the threaded plate are deformable.
- ◆ More force is needed to move the striker pin -2- when the bolts -3- are loose.





Note

- ♦ The following describes adjusting the left rear door. Adjusting the right rear door is identical.
- ♦ When closing, the rear door must latch completely without having to press it and it must not have any play.
- ♦ The door must not be pushed up or down when adjusting the striker pin.

The alignment of the rear door to the side panel can be adjusted using the striker pin -arrows- (wind noises).

- Loosen the bolts -3- on the C-pillar and loosen the striker pin -2-.



Note

More force is needed to move the striker pin -2- when the bolts -3- are loose.

- Tighten the bolts -23- on the striker pin -2-.

Component	Tightening Specifications
Catch	20 Nm

1.5 Door Arrester, Removing and Installing

Special tools and workshop equipment required

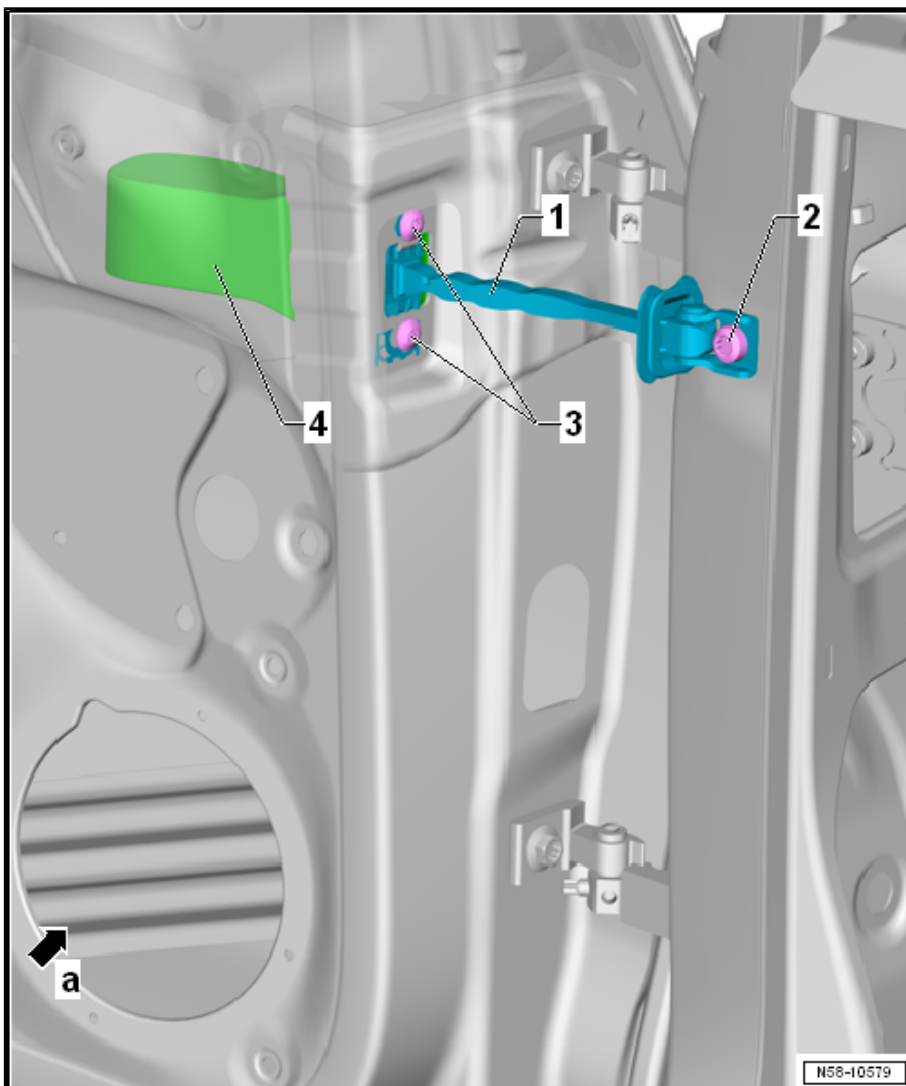
- ♦ Torque Wrench 1331 5-50Nm - VAG1331-



Note

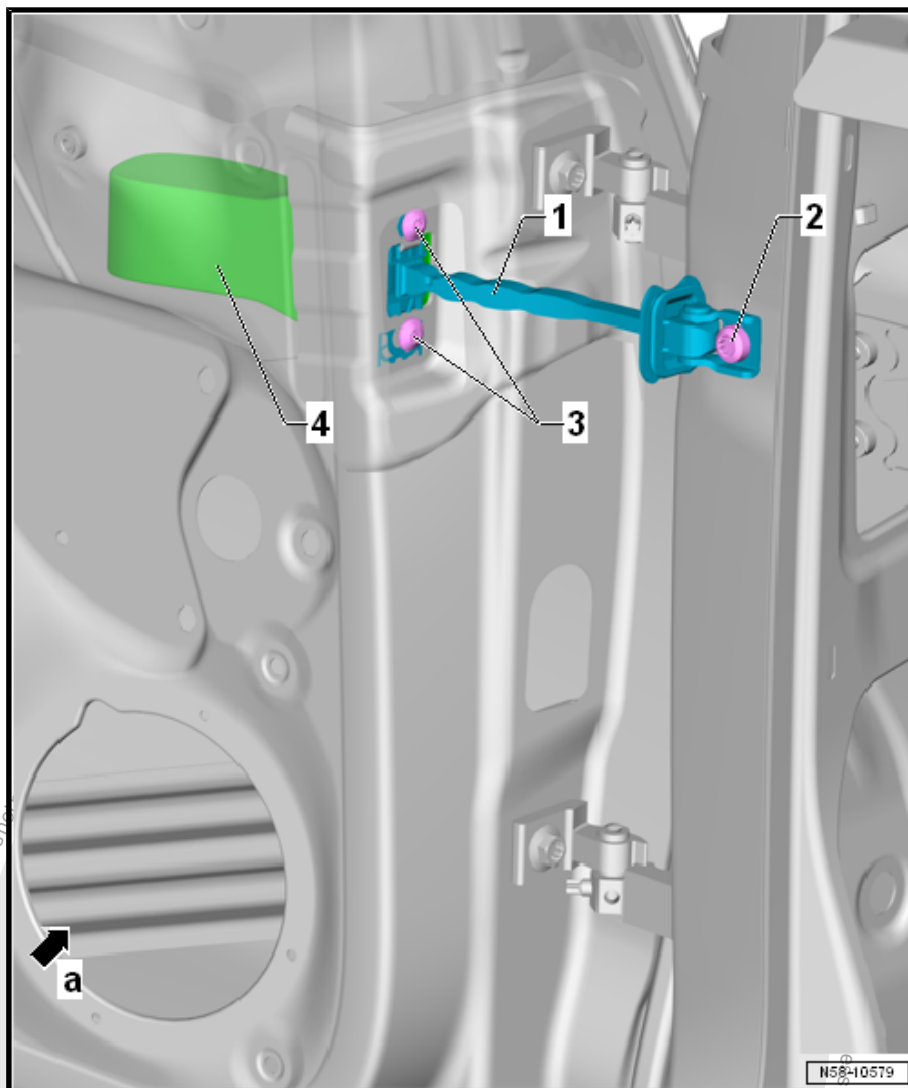
The following describes removing and installing the left door strap. The right side is identical.

Removing



- Remove the rear door trim panel. Refer to ➤ Body Interior; Rep. Gr. 70 ; Rear Door Trim Panels; Rear Door Trim Panel, Removing and Installing .
- Remove the self-adhesive cover.
- Remove the bolt -2- from the B-pillar.
- Remove the bolts -3- and the door strap -1-.

Installing



Install in reverse order of removal.

Tightening Specifications

1.6 Inner Door Seal, Removing and Installing

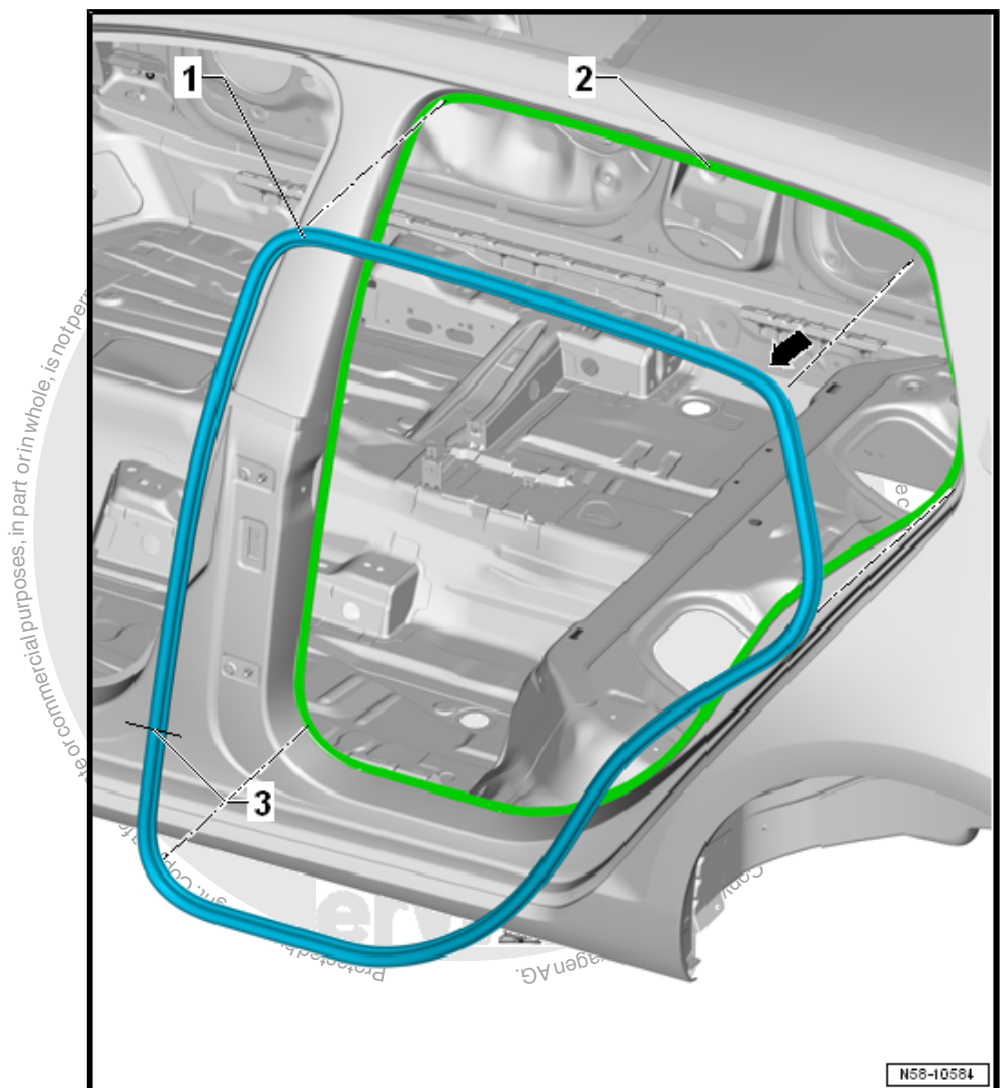
The inner door seals are equipped at the factory with sealant, applied to the door flange and then rolled on.



Note

- ◆ *The sealant on the inside will spread when the seal is removed. The sides will bend up slightly. If the seal is being installed again, the sealing performance and proper seating are no longer guaranteed.*
- ◆ *For this reason, every seal that has been removed completely must be replaced with a "hammer-stroke seal".*
- ◆ *For partially removed seals, seal flanks must be pressed together before installation.*
- ◆ *Removing and installing is described only for the left inner door seal. The right side is identical.*
- ◆ *For better illustration the rear door is not shown.*

Removing



- Remove the sill panel strip. Refer to ➤ Body Interior; Rep. Gr. 70 ; Passenger Compartment Trim; Sill Panel Strip, Removing and Installing .
- It is necessary to remove the necessary pillar trim in order to remove the inner door seal. Refer to ➤ Body Interior; Rep. Gr.



70 ; Passenger Compartment Trim; Component Location
Overview - Passenger Compartment Trim .

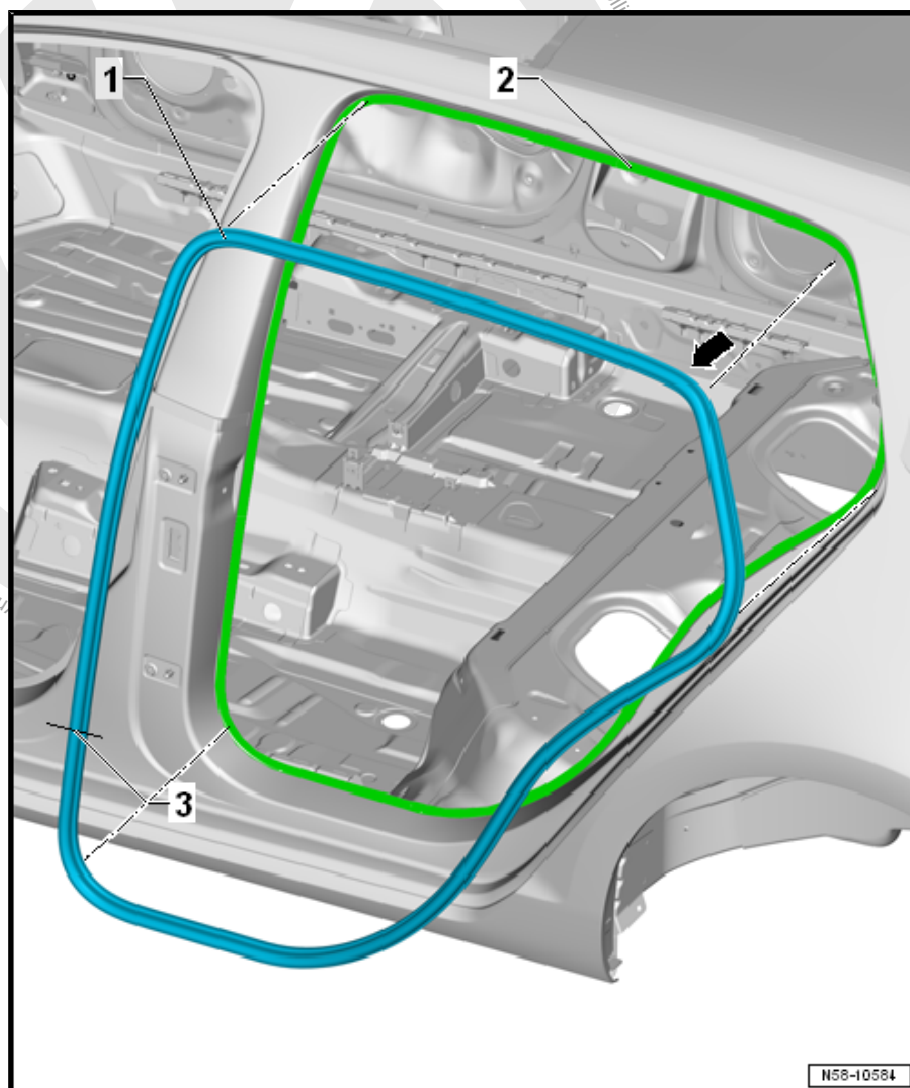
- Remove the inner door seal -1- from the flange -2-.

Installing



Note

Do not kink the vulcanized point -2-.



- Install the inner door seal -1- starting at the top of the door opening -arrow-.
- Align the vulcanized point -3- between the hinges.
- Install the pillar trim. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Passenger Compartment Trim .
- Install the sill panel strip. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Passenger Compartment Trim; Sill Panel Strip, Removing and Installing .



2 Door Components

⇒ [“2.1 Overview - Door Components”, page 155](#)

⇒ [“2.3 Overview - Door Handle and Door Lock”, page 158](#)

⇒ [“2.4 Left and Right Rear Window Regulator Motor V26 / V27 , Removing and Installing”, page 159](#)

⇒ [“2.5 Window Regulator, Removing and Installing”, page 161](#)

⇒ [“2.6 Window Crank, Removing and Installing”, page 164](#)

⇒ [“2.7 Door Inner Cover, Removing and Installing”, page 166](#)

⇒ [“2.8 Catch, Removing and Installing”, page 168](#)

⇒ [“2.9 Cap, Removing and Installing”, page 169](#)

⇒ [“2.10 Door Handle, Removing and Installing”, page 171](#)

⇒ [“2.11 Bracket, Removing and Installing”, page 173](#)

⇒ [“2.12 Door Lock, Removing and Installing”, page 175](#)

⇒ [“2.13 Window Guide, Removing and Installing”, page 179](#)

⇒ [“2.14 Outer Window Shaft Strip, Removing and Installing”, page 182](#)

⇒ [“2.15 Inner Window Shaft Strip, Removing and Installing”, page 183](#)

2.1 Overview - Door Components



Note

The illustration shows the left side. The right side is identical.



1 - Rear Door

- ☐ Removing and installing. Refer to ➤ ["1.4 Door, Removing and Installing", page 93](#).
- ☐ Adjusting. Refer to ➤ ["1.5 Door, Adjusting", page 96](#).

2 - Sticker

- ☐ Quantity: 3
- ☐ Diameter 28 mm
- ☐ Use electrical tape if needed

3 - Sticker

- ☐ Quantity: 2
- ☐ Diameter 32 mm
- ☐ Use electrical tape if needed

4 - Insulation

- ☐ Self-adhesive
- ☐ Installing:
 - Cut to size if necessary, 200 mm x 100 mm. Position as shown in the illustration.
 - Warm using the Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A- and then press firmly onto the outer door panel.

5 - Release Cable

6 - Door Inner Cover

- ☐ Removing and installing. Refer to ➤ ["2.7 Door Inner Cover, Removing and Installing", page 166](#).

7 - Outer Door Seal

- ☐ Secured with clips in the door

8 - Bracket

- ☐ Part of the outer door seal

9 - Sticker

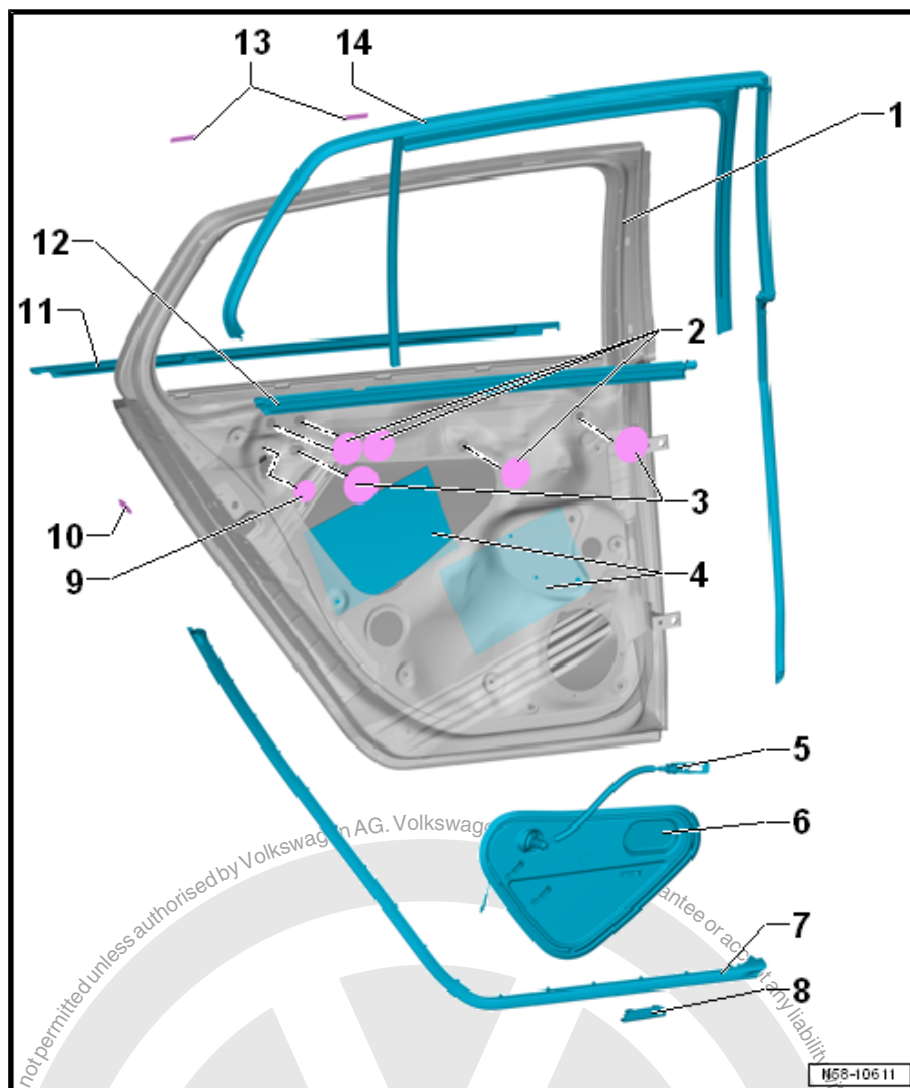
- ☐ Quantity: 1
- ☐ Diameter 19 mm
- ☐ Use electrical tape if needed

10 - Sticker

- ☐ Quantity: 1
- ☐ Diameter 15 mm
- ☐ Use electrical tape if needed

11 - Outer Window Shaft Strip

- ☐ Removing and installing. Refer to ➤ ["2.14 Outer Window Shaft Strip, Removing and Installing", page 182](#).





12 - Inner Window Shaft Strip

- ☐ Removing and installing. Refer to
⇒ ["2.15 Inner Window Shaft Strip, Removing and Installing", page 183](#) .

13 - Sticker

- ☐ Quantity: 2
- ☐ 15 mm x 50 mm
- ☐ Use electrical tape if needed

14 - Window Guide

- ☐ Removing and installing. Refer to ⇒ ["2.13 Window Guide, Removing and Installing", page 179](#) .

2.2 Overview - Window Regulator

1 - Front Door

2 - Left and Right Rear Window Regulator Motor - V26/V27-

- ☐ The door control module is installed separately from the window regulator motor in the door.
- ☐ Removing and installing. Refer to
⇒ ["2.4 Left and Right Rear Window Regulator Motor V26 / V27 , Removing and Installing", page 159](#) .

3 - Hex Nut

- ☐ Quantity: 2
- ☐ 6 Nm

4 - Window Regulator

- ☐ Removing and installing. Refer to
⇒ ["2.5 Window Regulator, Removing and Installing", page 161](#) .

5 - Bolt

- ☐ 3 Nm
- ☐ Quantity 3 for the window regulator motor

6 - Window Crank

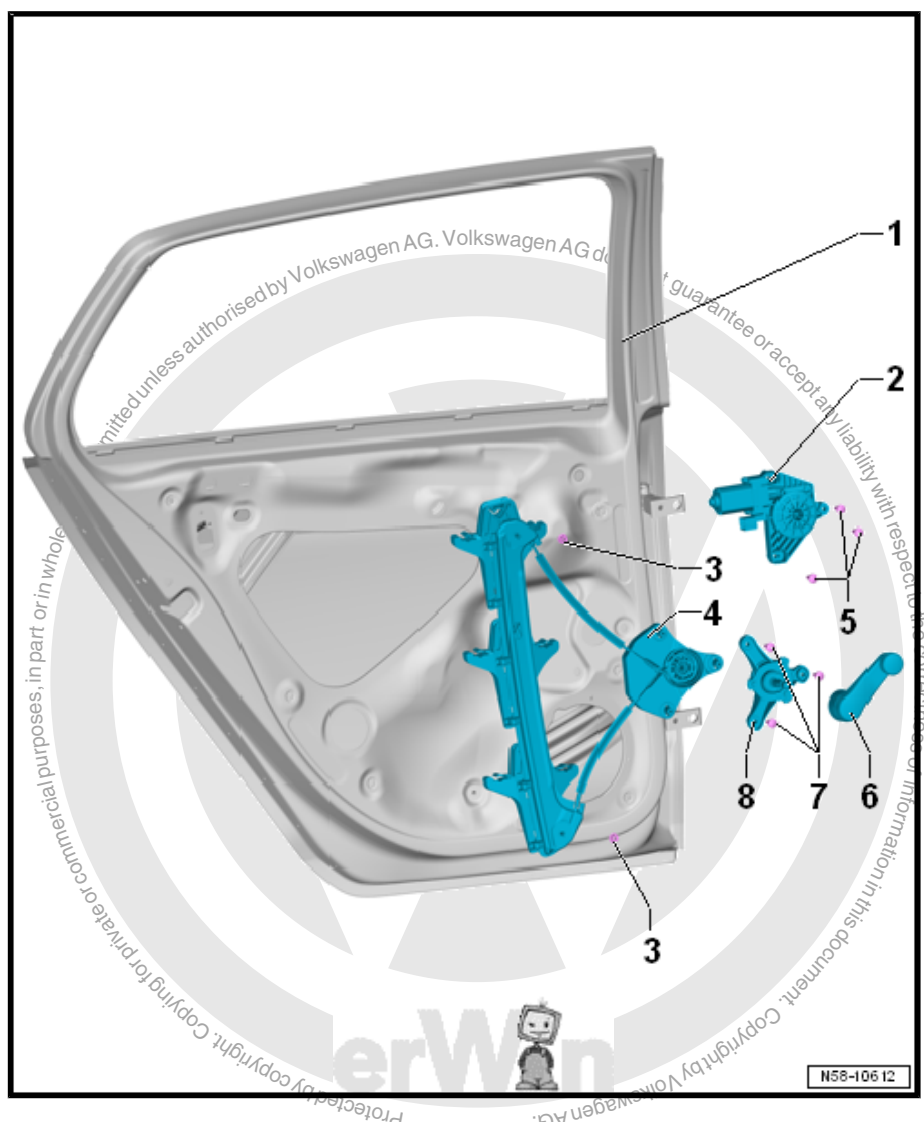
- ☐ Removing and installing. Refer to
⇒ ["2.6 Window Crank, Removing and Installing", page 164](#) .

7 - Bolt

- ☐ Quantity 3 for the window crank mechanism
- ☐ 3 Nm

8 - Window Crank Mechanism

- ☐ Removing and installing. Refer to ⇒ [page 165](#) .





2.3 Overview - Door Handle and Door Lock



Note

The illustration shows the left side. The right side is identical.

1 - Door Lock

- ❑ Removing and installing. Refer to
⇒ ["2.12 Door Lock, Removing and Installing"](#),
page 175 .

2 - Bolt

- ❑ 1.5 Nm
- ❑ For the locking bushing
in the bracket

3 - Bracket

- ❑ Removing and installing. Refer to
⇒ ["2.11 Bracket, Removing and Installing"](#),
page 173 .

4 - Backing Plate

5 - Cap

- ❑ Removing and installing. Refer to
⇒ ["2.9 Cap, Removing and Installing"](#),
page 169 .

6 - Door Handle

- ❑ Removing and installing. Refer to
⇒ ["2.10 Door Handle, Removing and Installing"](#),
page 171 .

7 - Bolt

- ❑ 1.5 Nm
- ❑ Mounting bracket is dis-
engaged from door by
loosening this bolt.

8 - Cable

- ❑ From the door lock -1- to the bracket -3-

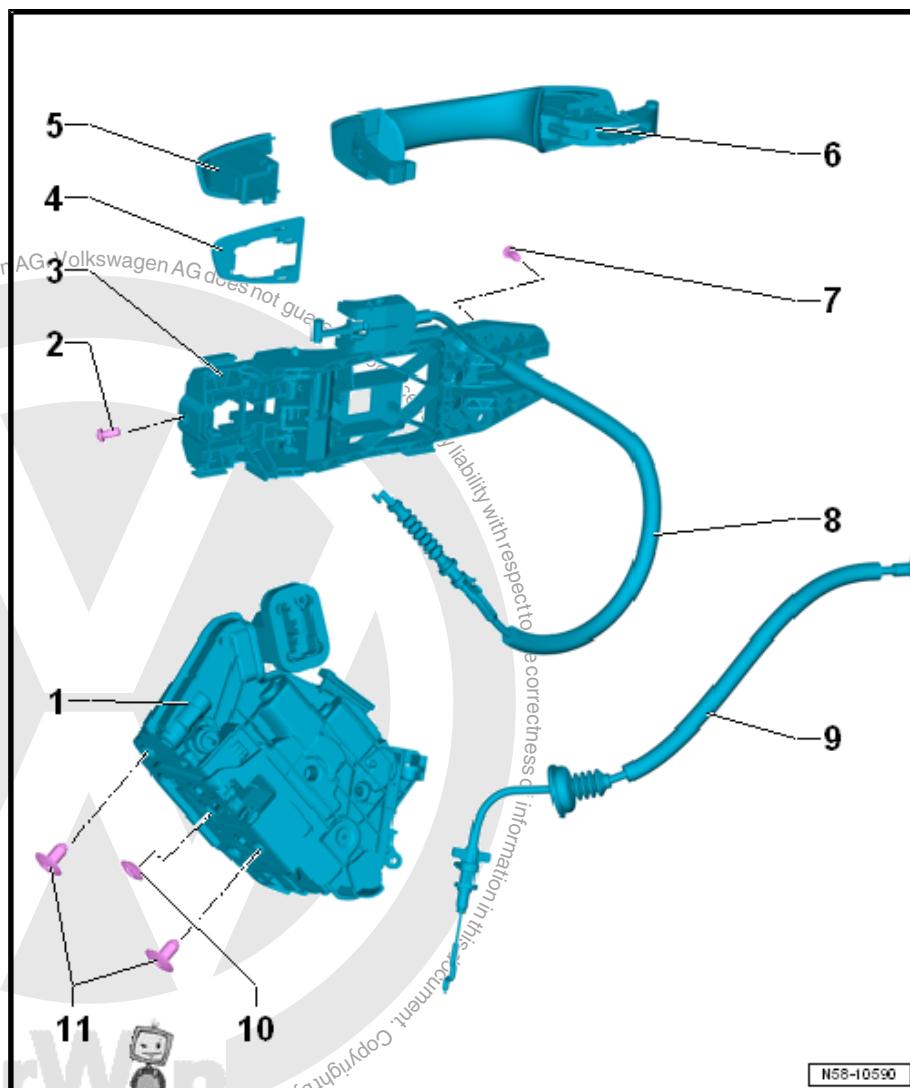
9 - Cable

- ❑ From the interior door mechanism to the door lock -1-
- ❑ With a grommet on the cover

10 - Cap

11 - Bolt

- ❑ 18 Nm
- ❑ Quantity: 2



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2.4 Left and Right Rear Window Regulator Motor -V26- / -V27- , Removing and Installing

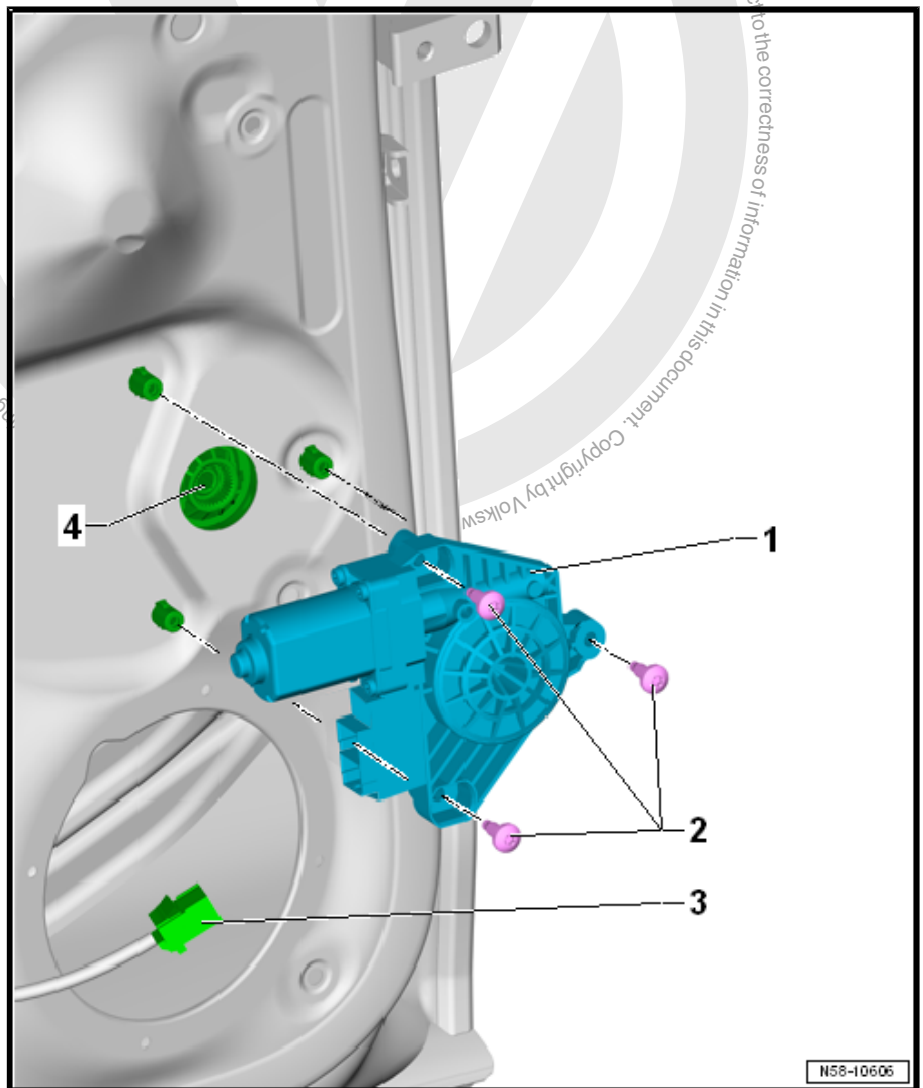
Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-

Note

- ◆ *The following describes removing and installing the left window regulator motor. Removing and installing right window regulator motor is identical.*
- ◆ *The door control module is clipped in separately from the window regulator motor in the door.*

Removing



- Remove the rear door trim panel. Refer to ➤ Body Interior; Rep. Gr. 70 ; Rear Door Trim Panels; Rear Door Trim Panel, Removing and Installing .



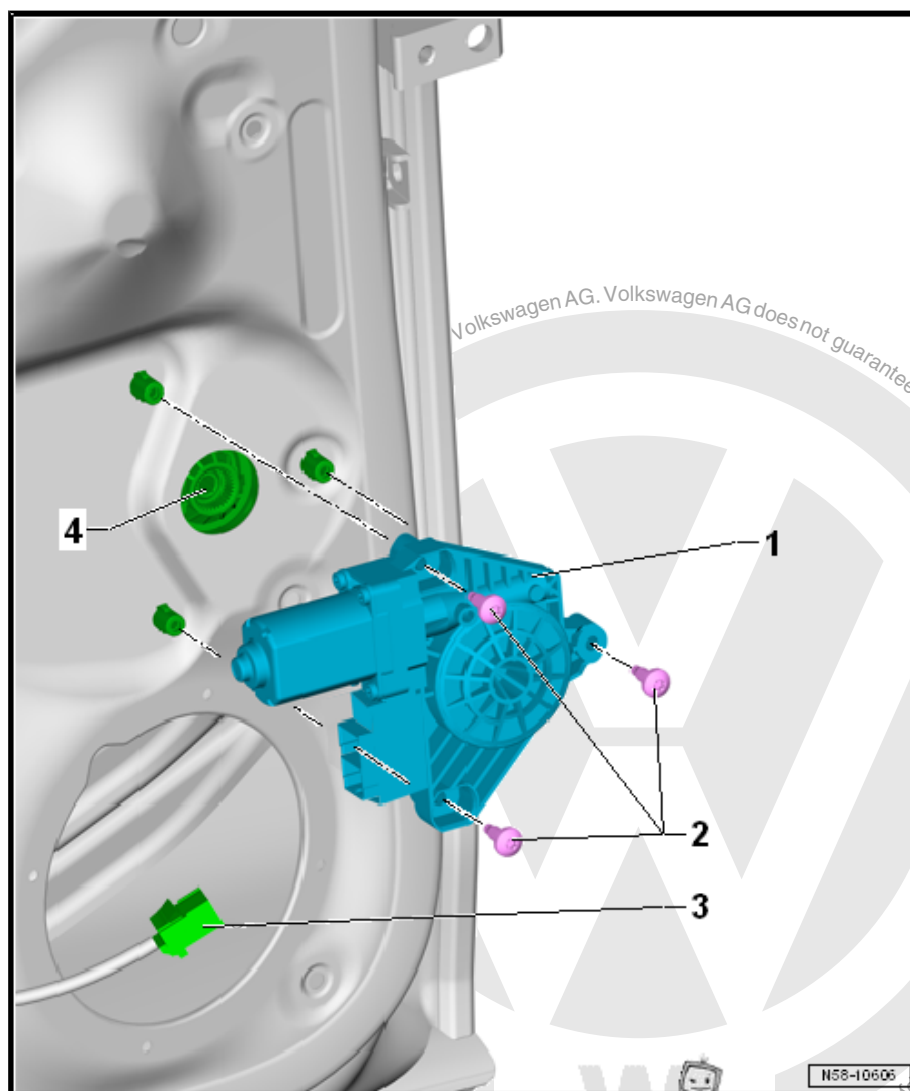
- Secure the door window with adhesive tape to prevent it from falling down.
- Turn off the ignition and all electrical equipment. Remove the key.
- Disconnect the connector -3-.
- Remove the bolts -2- (quantity: 3).
- Remove the window regulator motor -1- from the mounts of the cable reel -4-.

Installing



WARNING

It is necessary to code the additional functions and pinch protection each time a new window regulator motor (door control module) is installed.



- Install the window regulator motor -1- on the mounts in the cable reel -4-. Gently move the door window up and down so that the splines between the window regulator motor and the cable reel can mesh.



- Tighten the screws -2-.
- Connect the connector -3-.
- Code the new window regulator motor using the Vehicle Diagnostic Tester .
- For more information regarding the one-touch up/one-touch down and the pinch protection features. Refer to ⇒ Maintenance ; Booklet 36.1 .

Install in reverse order of removal.

Tightening Specifications

2.5 Window Regulator, Removing and Installing

Special tools and workshop equipment required

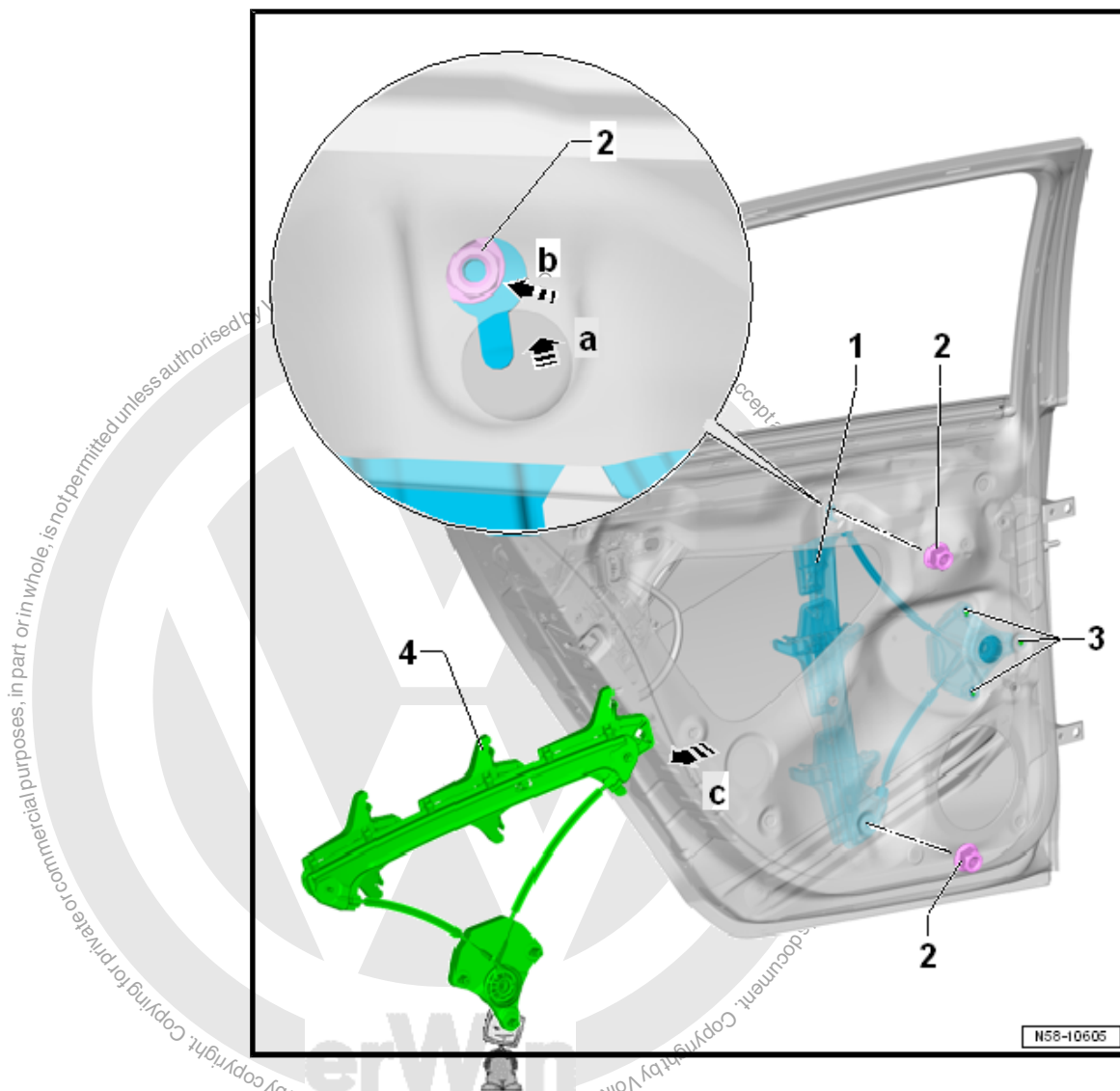
- ◆ Torque Wrench 1783 -2-10Nm - VAG1783-



Note

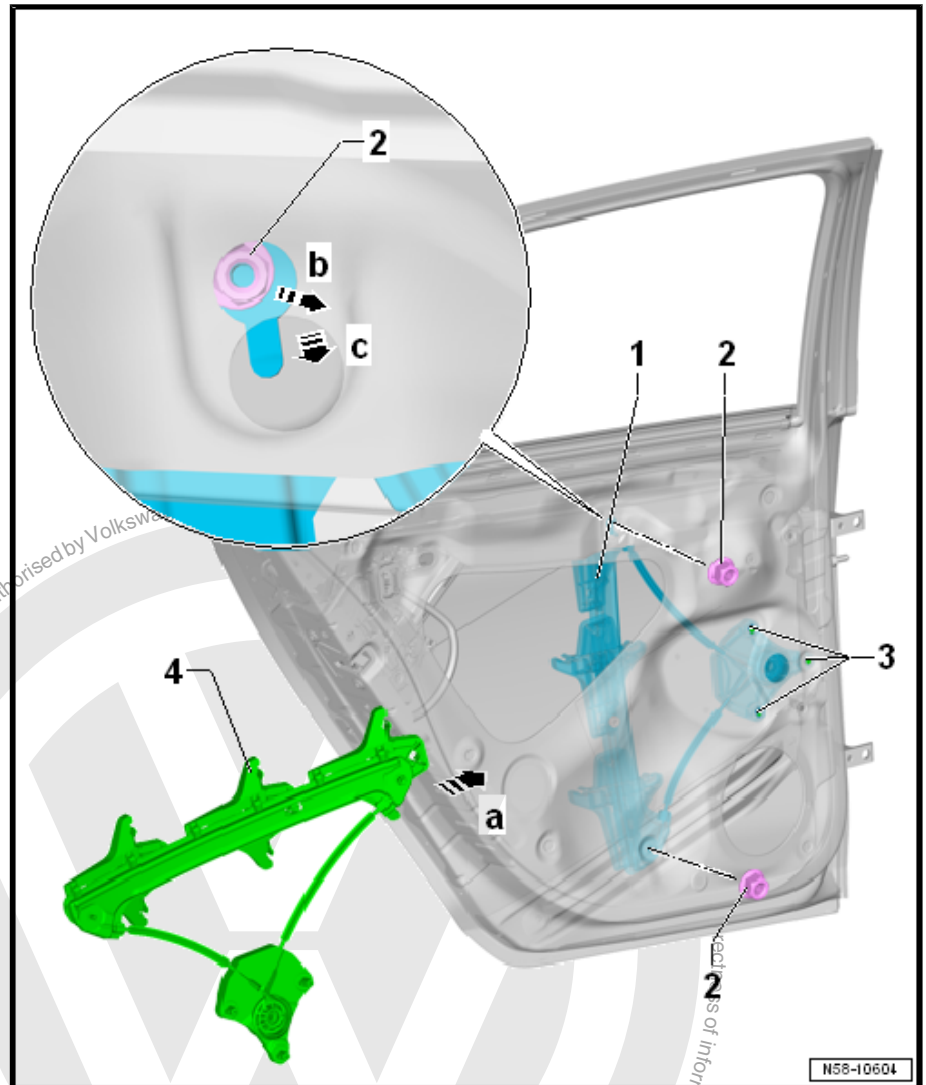
The following describes removing and installing the left window regulator. Removing and installing right window regulator is identical.

Removing



- Remove the rear door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Rear Door Trim Panels; Rear Door Trim Panel, Removing and Installing .
- Loosen the door window from the window regulator, but do not remove. Refer to
⇒ ["5.4 Front Door Window, Removing and Installing", page 302](#) .
- Push the door window upward and secure.
- Remove the window regulator motor. Refer to
⇒ ["2.4 Left and Right Rear Window Regulator Motor V26 / V27 , Removing and Installing", page 159](#) .
- Release the hooks on the cable reel -3- and slide into the door.
- Remove the lower hex nut -2- and push the window regulator threaded pin in the door.
- Loosen the upper hex nuts -2-, but do not remove.
- Push the window regulator in the door slightly upward -arrow a- and guide in the door -arrow b-.
- Turn the window regulator -4- 90° and remove through the opening in the door -arrow c-.

Installing

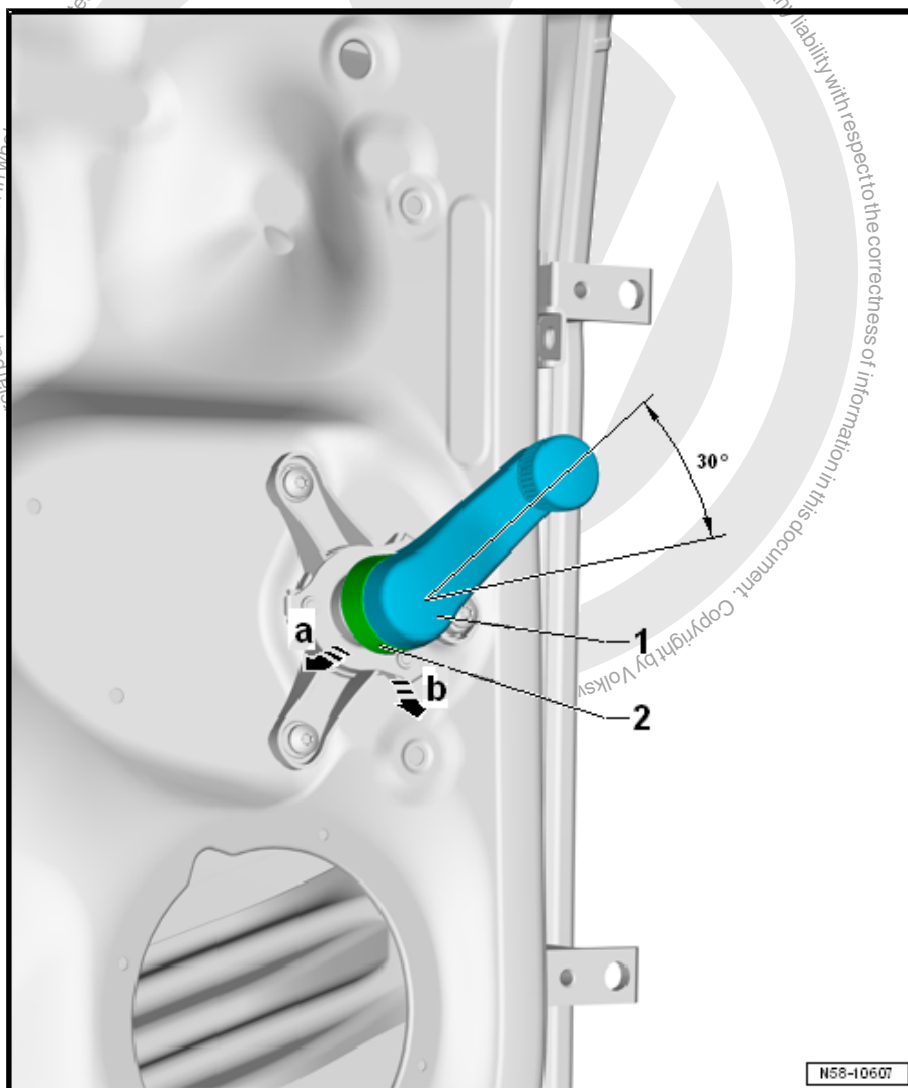


- Guide the window regulator -4- through the opening in the door -arrow a- and bring into the installation position.
- Push the window regulator threaded pin through the inner door panel -arrow b-.
- Tighten the hex nuts -2-.
- Push the cable reel against the door inner panel -3- until the hooks engage audibly.
- Install window regulator motor. Refer to
⇒ ["2.4 Left and Right Rear Window Regulator Motor V26 / V27 , Removing and Installing", page 159](#) .
- Install the door window. Refer to
⇒ ["5.4 Front Door Window, Removing and Installing", page 302](#) .



Tightening Specifications

2.6 Window Crank, Removing and Installing



Removing

- Push the spacer ring -2- in the direction of the -arrow a- and remove the window crank from the mechanism -arrow b-.

Installing

- Push in the spacer ring and push the window crank on the mechanism.

The installation position of the window crank -1- runs horizontally and upward when the crank wheel is closed.

Deviation of window cranks to each other must be 6° maximum

Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-

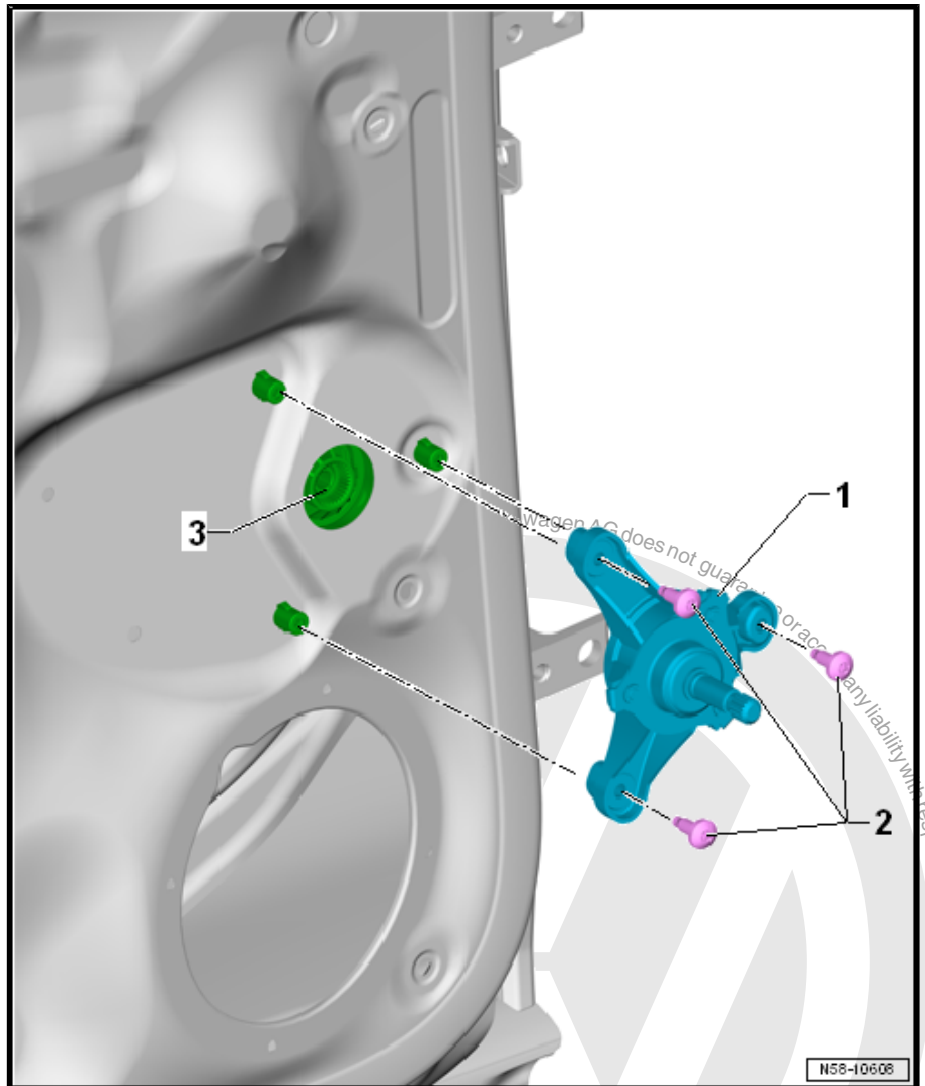


Removing the window crank mechanism



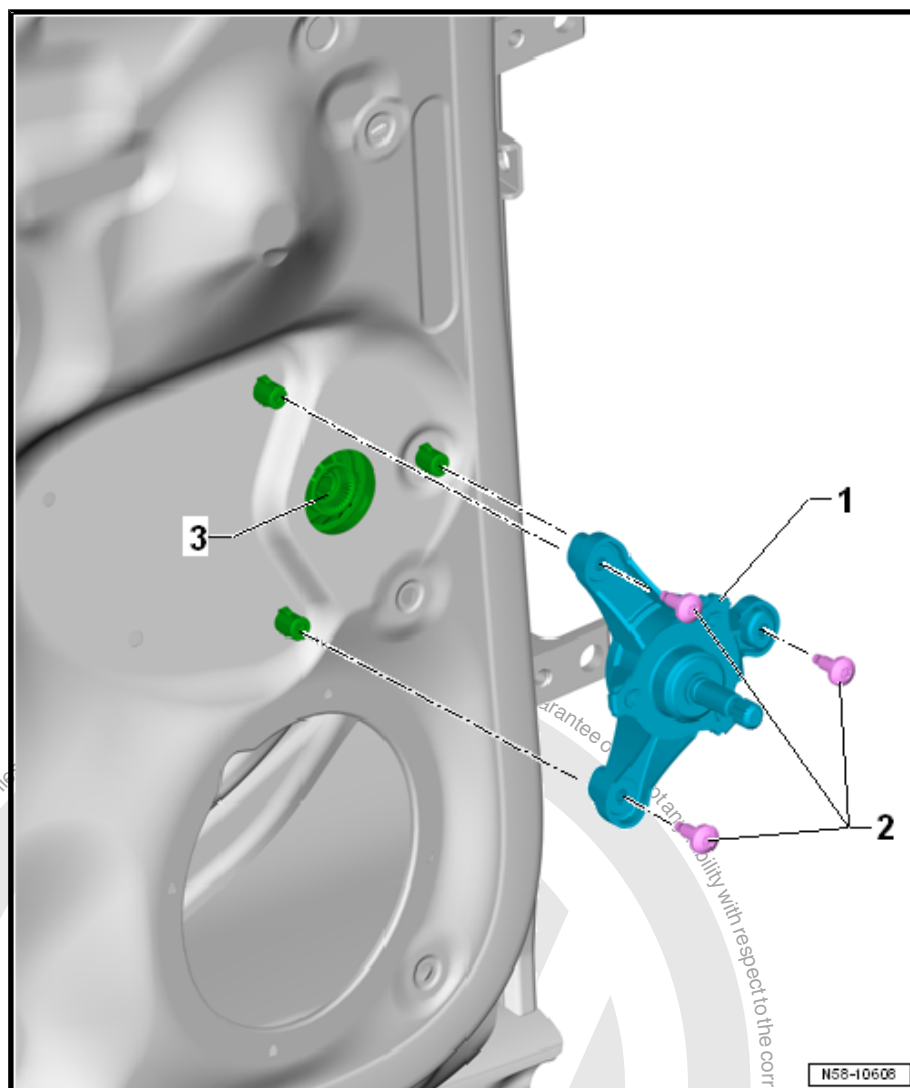
Note

The following describes removing and installing for only the left window crank mechanism. Removing and installing right window crank mechanism is identical.



- Removing window crank
⇒ ["2.6 Window Crank, Removing and Installing", page 164](#)
- Remove the rear door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Rear Door Trim Panels; Rear Door Trim Panel, Removing and Installing .
- Secure the door window with adhesive tape to prevent it from falling down.
- Remove the bolts -2- (quantity: 3).
- Remove the window crank mechanism -1- from the mounts of the cable reel -3-.

Installing the window crank mechanism



- Install the window crank mechanism -1- on the mounts in the cable reel -3-. Gently move the door window up and down so that the splines between the window crank mechanism and the cable reel can mesh.
- Tighten the screws -2-.

Tightening Specifications

2.7 Door Inner Cover, Removing and Installing

Special tools and workshop equipment required

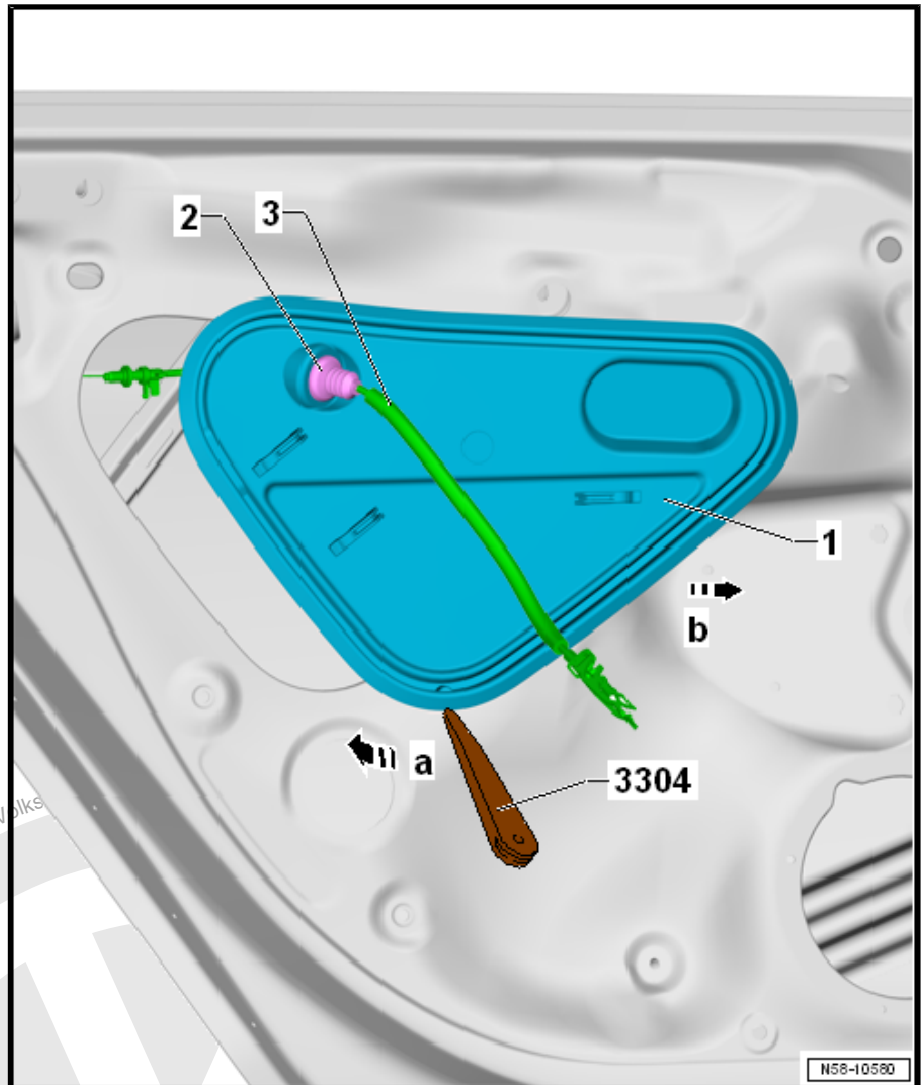
- ◆ Trim Removal Wedge - 3409-



Note

The following describes removing and installing the left cover only. The right side is identical.

Removing



- Remove the rear door trim panel. Refer to ➤ Body Interior; Rep. Gr. 70 ; Rear Door Trim Panels; Rear Door Trim Panel, Removing and Installing .
- Pry up the cover -1- at the bottom -arrow a-.
- Remove the cover -1- forward from the door -arrow b-.

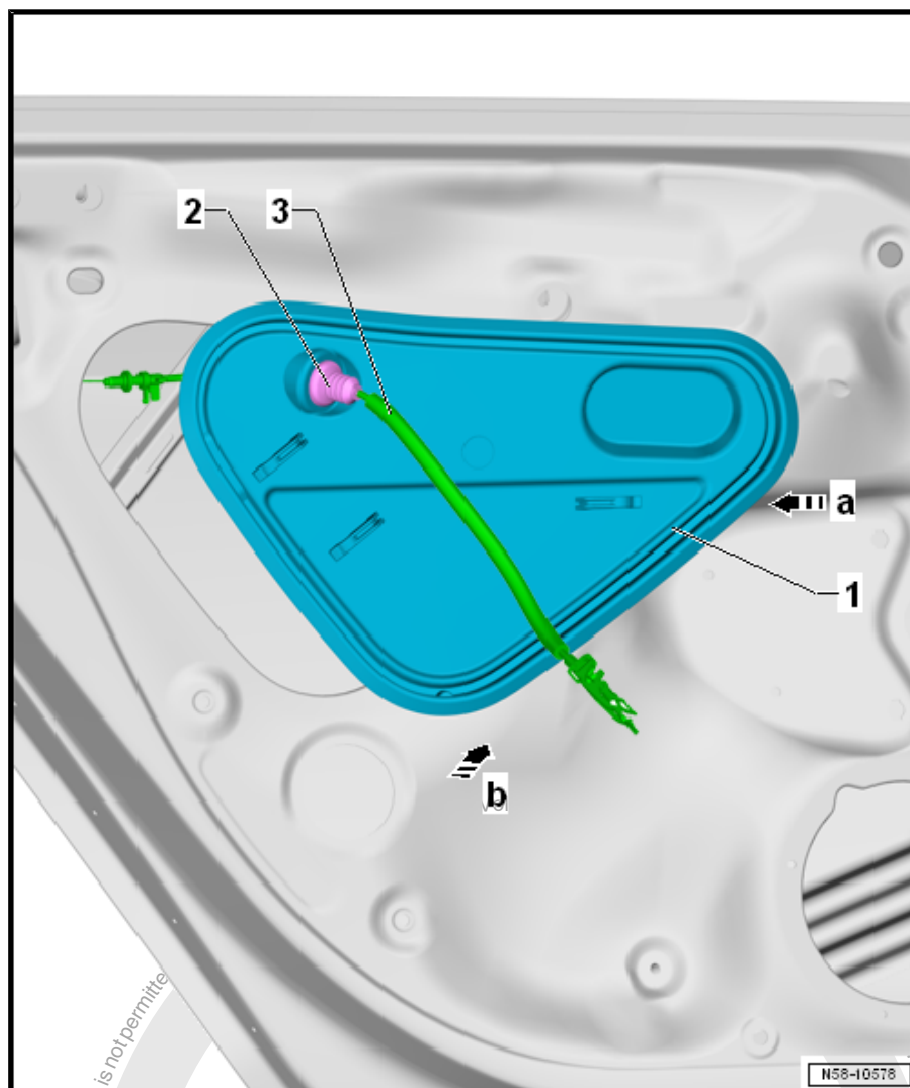


Note

It is necessary to remove the cable -3- and grommet -2- from the cover -1- to perform the following work. Disconnect the connector (if equipped) at the grommet.

Installing





- Guide the cable -3- with the grommet -2- into the cover -1-.
- Install the grommet -2- into the cover -1-.
- Install the cover -1- in the door -2- -arrow a-.
- Engage the cover -1- all around -arrow b-.



Note

Check the edges of the cover all the way around to make sure it is installed correctly.

2.8 Catch, Removing and Installing

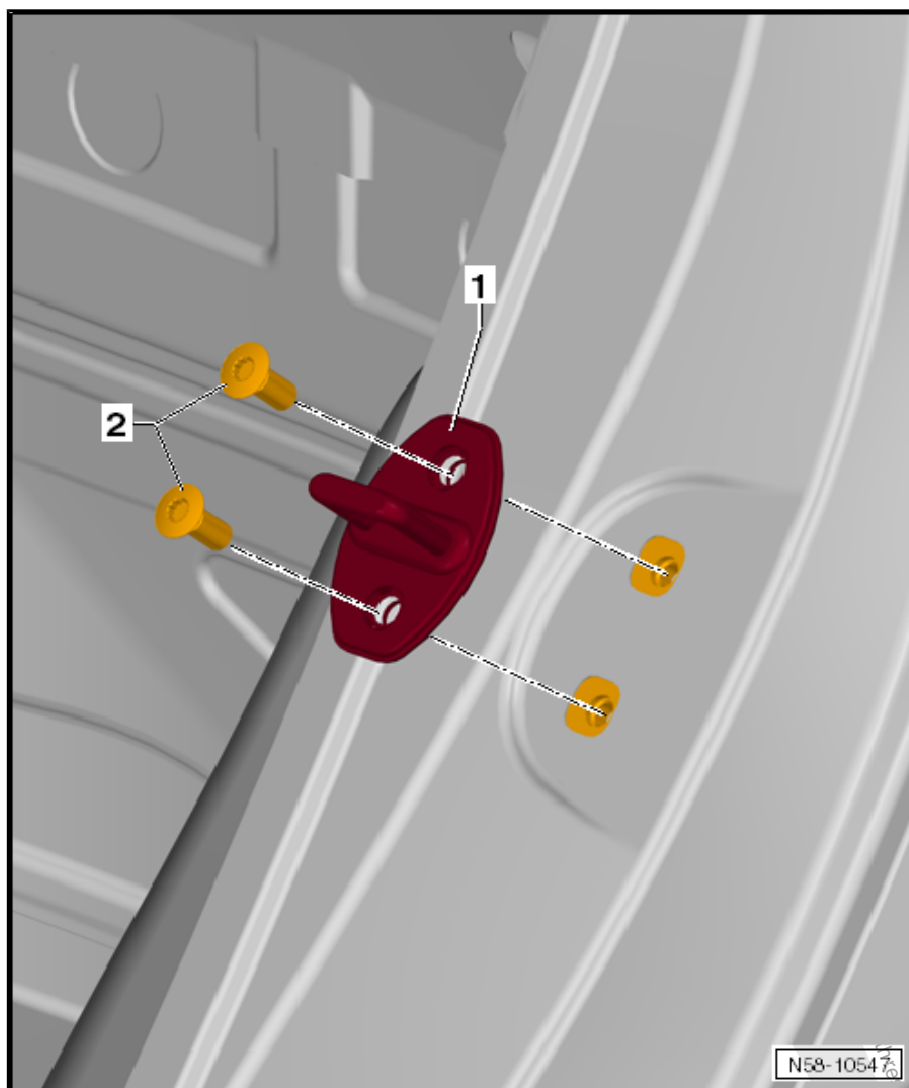
Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm - VAG1331-
- ◆ Cylinder Head Bolt Socket - 3410-



Note

The following describes removing and installing the right striker pin. The right side is identical.



Removing

- Remove the bolts -2- and the catch -1-.

Installing

- Position the striker pin -1- on the B-pillar -3- and tighten the bolts -2-.
- Adjust the striker pin. Refer to ["1.4 Catch, Adjusting", page 149](#).

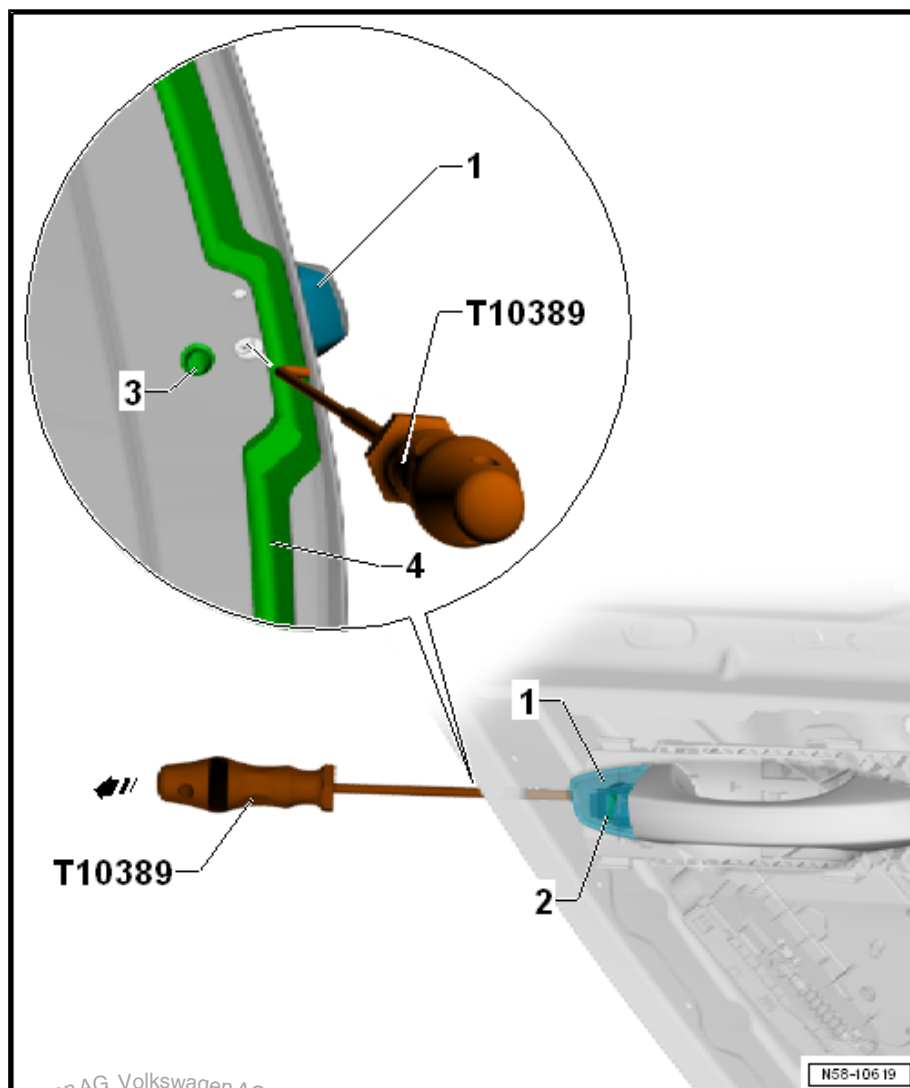
Component	Tightening Specifications
Catch	20 Nm

2.9 Cap, Removing and Installing

Special tools and workshop equipment required

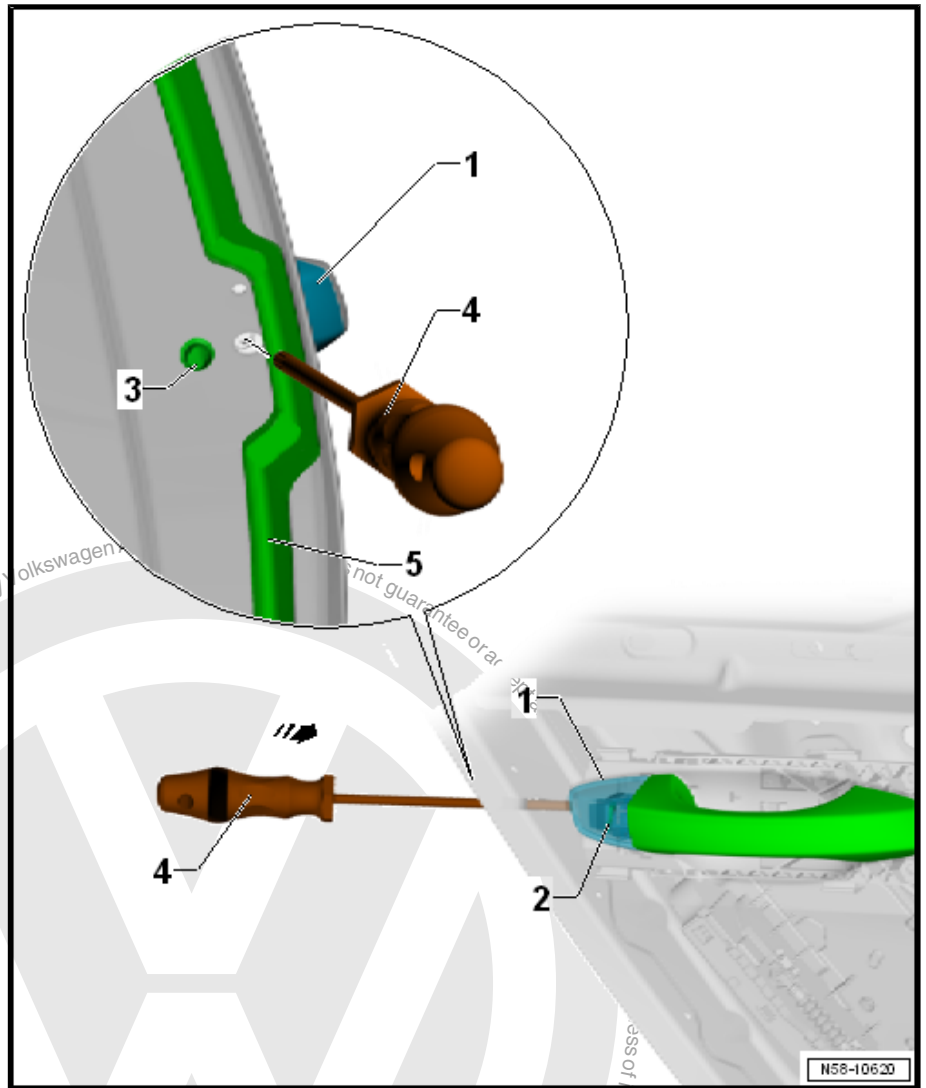
- ◆ Lock Cylinder Housing Assembly Tool - T10389-

Removing



- Remove the plugs 3-.
- Guide the Lock Cylinder Housing Assembly Tool - T10389- approximately 44 mm behind the bracket locking lever -2-.
- Pull the Lock Cylinder Housing Assembly Tool - T10389- approximately 5 mm rearward -arrow- until the hooks release.
- Remove the door handle from the door.
- Remove the cap -1- from the bracket.

Installing



- Remove the door handle -2- from the door.
- Push the cap -1- in the bracket.
- Guide a screwdriver with a flat blade -4- approximately 40 mm until the locking lever -3- of the bracket.
- Install the cap -1- in the door.
- Push the screwdriver in approximately 5 mm -arrow-, until the hook locks.
- Secure the plug -5-.

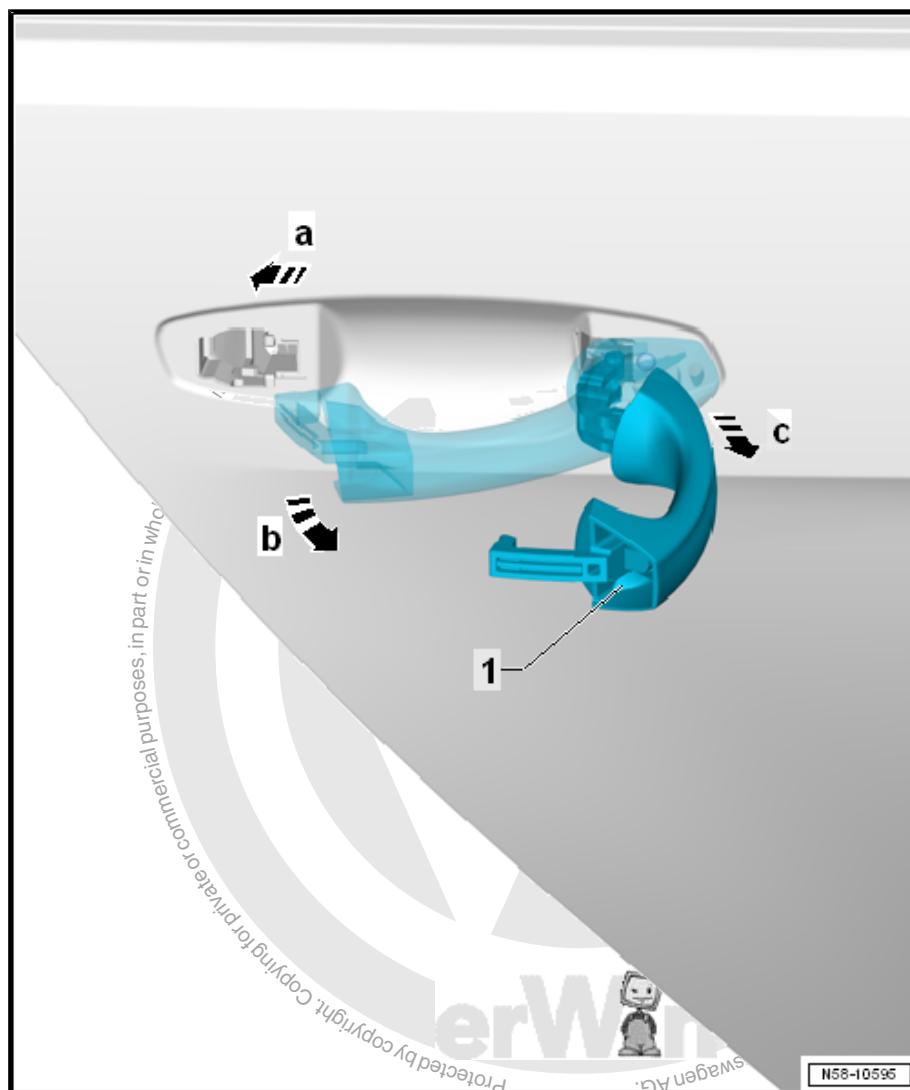
2.10 Door Handle, Removing and Installing



Note

The following describes removing and installing the right door handle. The right side is identical.

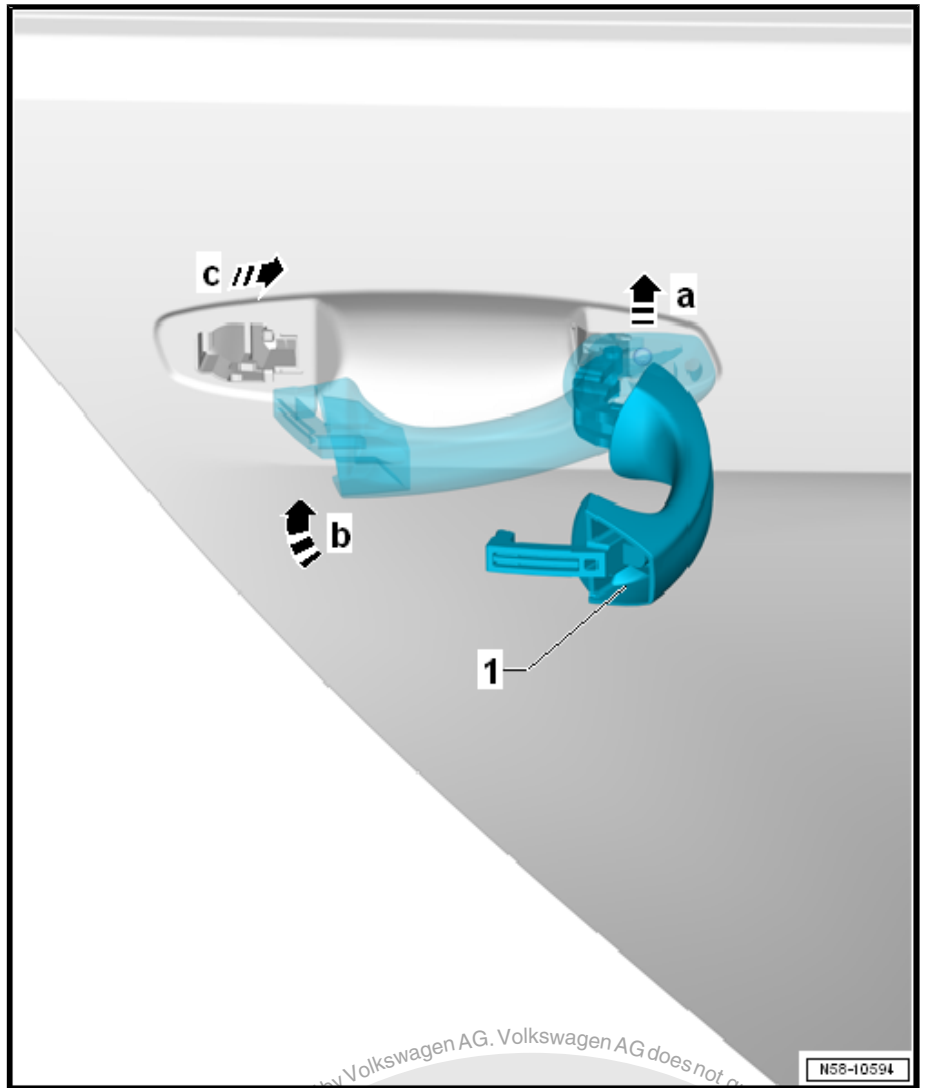
Removing



Notes for working on a door handle with keyless access authorization. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; Access/Start Authorization .

- Pull the door handle -1- slightly to the rear -arrow a- and out of the mount.
- Move the door handle in the direction of -arrow b-.
- Remove the door handle from the bracket -1- -arrow c-.

Installing



Notes for working on a door handle with keyless access authorization. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; Access/Start Authorization .

- Install the door handle -1- at a right angle -arrow a-.
- Install the door handle -1- in the door -arrow b-.
- Push the door handle toward front -arrow c- into the mount inside the bracket.

Install the cap. Refer to
⇒ [“2.10 Door Handle, Removing and Installing”, page 171](#) .

2.11 Bracket, Removing and Installing

Special tools and workshop equipment required

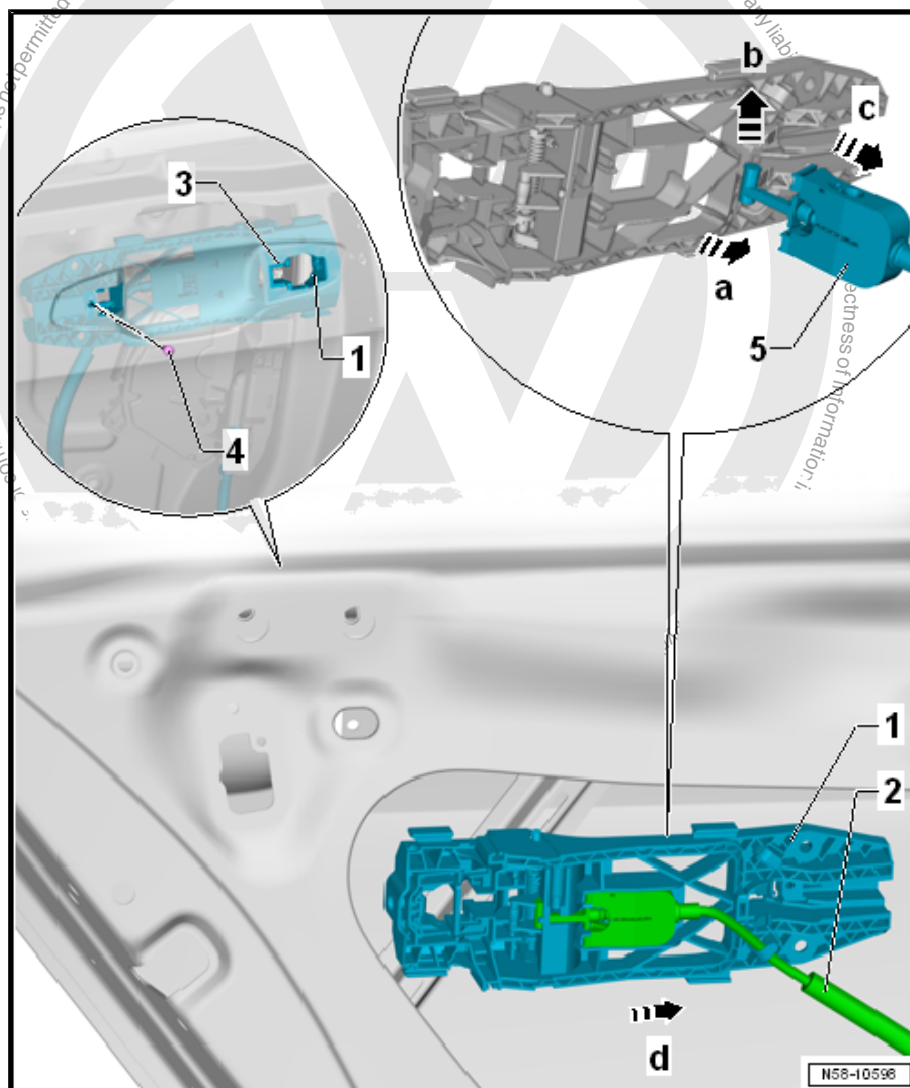
- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

*The following describes removing and installing the right bracket.
The right side is identical.*

Removing

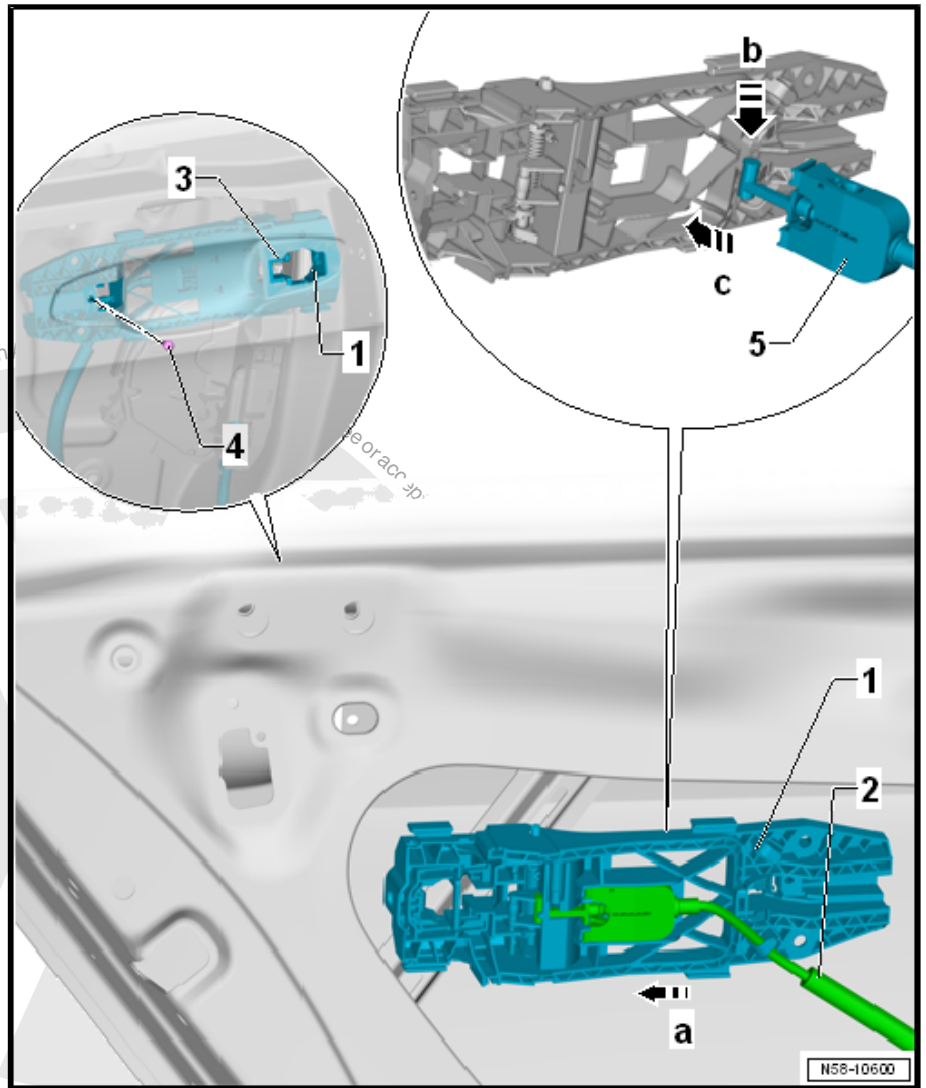


- Remove the rear door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Rear Door Trim Panels; Rear Door Trim Panel, Removing and Installing .
- Remove the door inner cover. Refer to ⇒ [“2.7 Door Inner Cover, Removing and Installing”, page 166](#) .
- Remove the door handle. Refer to ⇒ [“2.10 Door Handle, Removing and Installing”, page 171](#) .
- Remove the bolt -4- and then remove the backing -3-.
- Push the bracket -1- slightly rearward and remove from the door -arrow d-.

Loosening the cable

- Release the retainer -5- and swivel it out of the mount -arrow a-.
- Remove the pin for the cable out of the mount -arrow b-.
- Remove the cable -2- from the bracket -1- -arrow c-.

Installing



Mounting the Cable

- Guide the cable -2- in the bracket -1-.
- Install the cable bolts in the mount -arrow b-.
- Pivot the bracket -5- in the mount in the bracket -arrow c- and engage.
- Guide the bracket -1- in the door -arrow a-.
- Push the bracket slightly forward.
- Install the buffer -3- and tighten the bolt -4-.

Install in reverse order of removal.

Tightening Specifications

2.12 Door Lock, Removing and Installing

Special tools and workshop equipment required

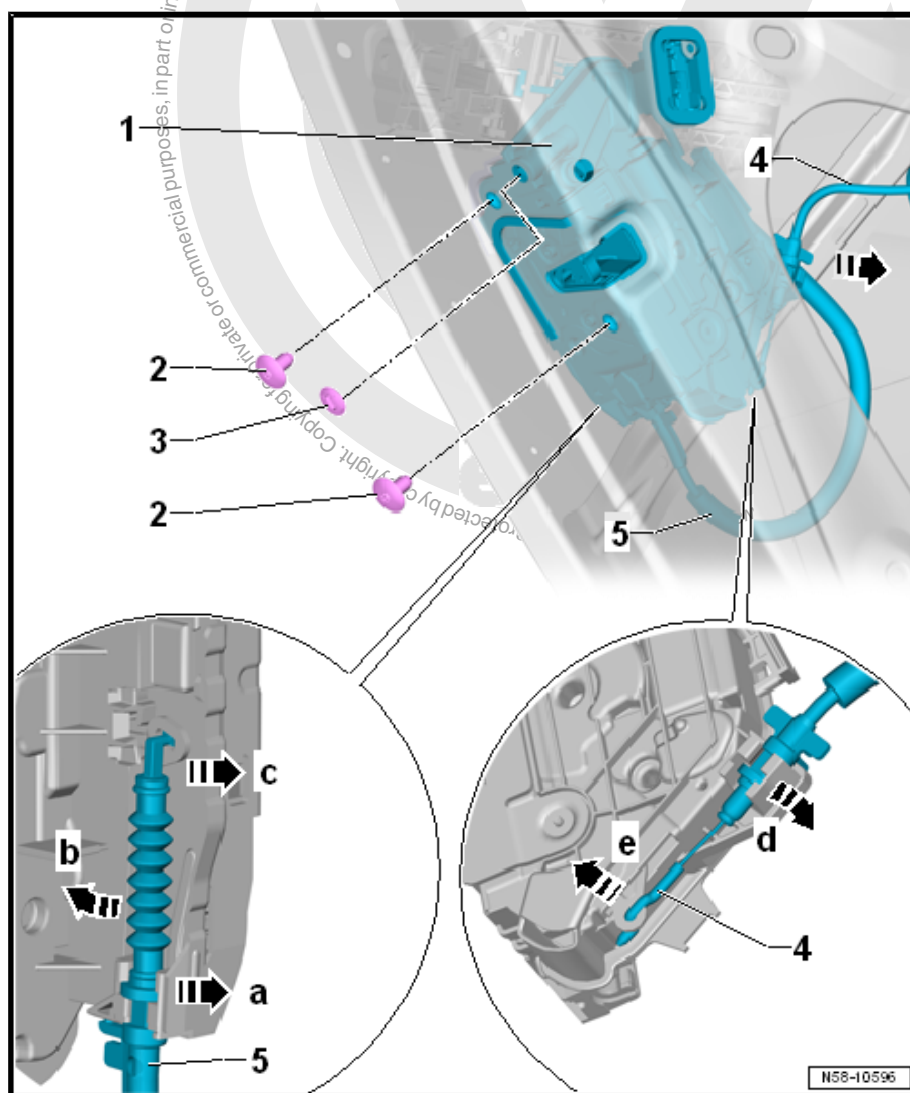
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-
- ◆ Cylinder Head Bolt Socket - 3410-



Note

- ♦ The following describes removing and installing the left door lock. The right side is identical.
- ♦ The door window must be closed for the following work.

Removing



- Remove the rear door trim panel. Refer to ➤ Body Interior; Rep. Gr. 70 ; Rear Door Trim Panels; Rear Door Trim Panel, Removing and Installing .
- Remove the door inner cover. Refer to ➤ [“2.7 Door Inner Cover, Removing and Installing”, page 166](#) .
- If equipped, disconnect the connector.
- Remove the bolts -2-.
- Remove the door lock -1- from the door -arrow-.



Note

If necessary for the following work steps, loosen the cables.

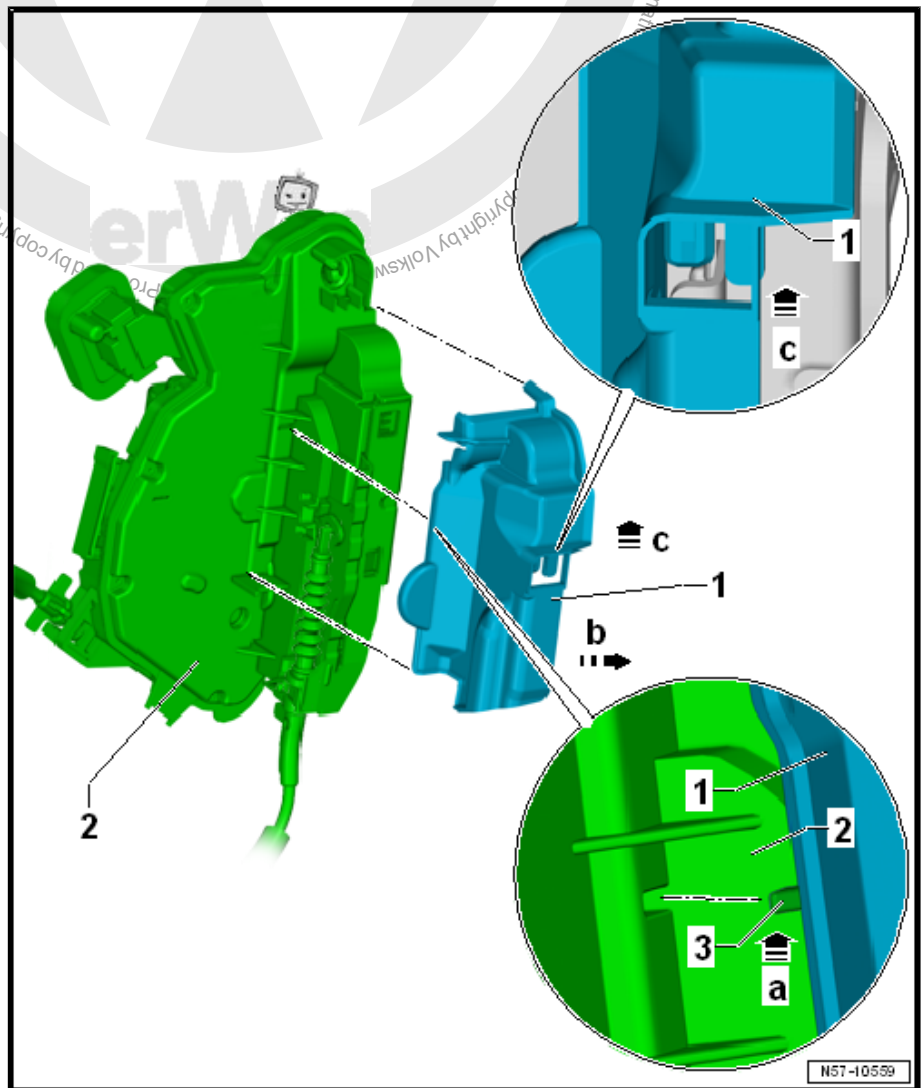
Loosening the Cable for the Bracket

- Remove the cover. Refer to ➤ [page 177](#) .
- Turn the cable -5- 90° and remove it -arrow a-.
- Move the cable -arrow b- until it can be guided out of the eye in the door lock -1- -arrow c-.

Loosening the Cable for the Interior Door Mechanism

- Turn the cable -4- 90° and remove it.
- Move the cable -arrow d- until it can be guided out of the eye in the door lock -1- -arrow e-.

Removing Cover

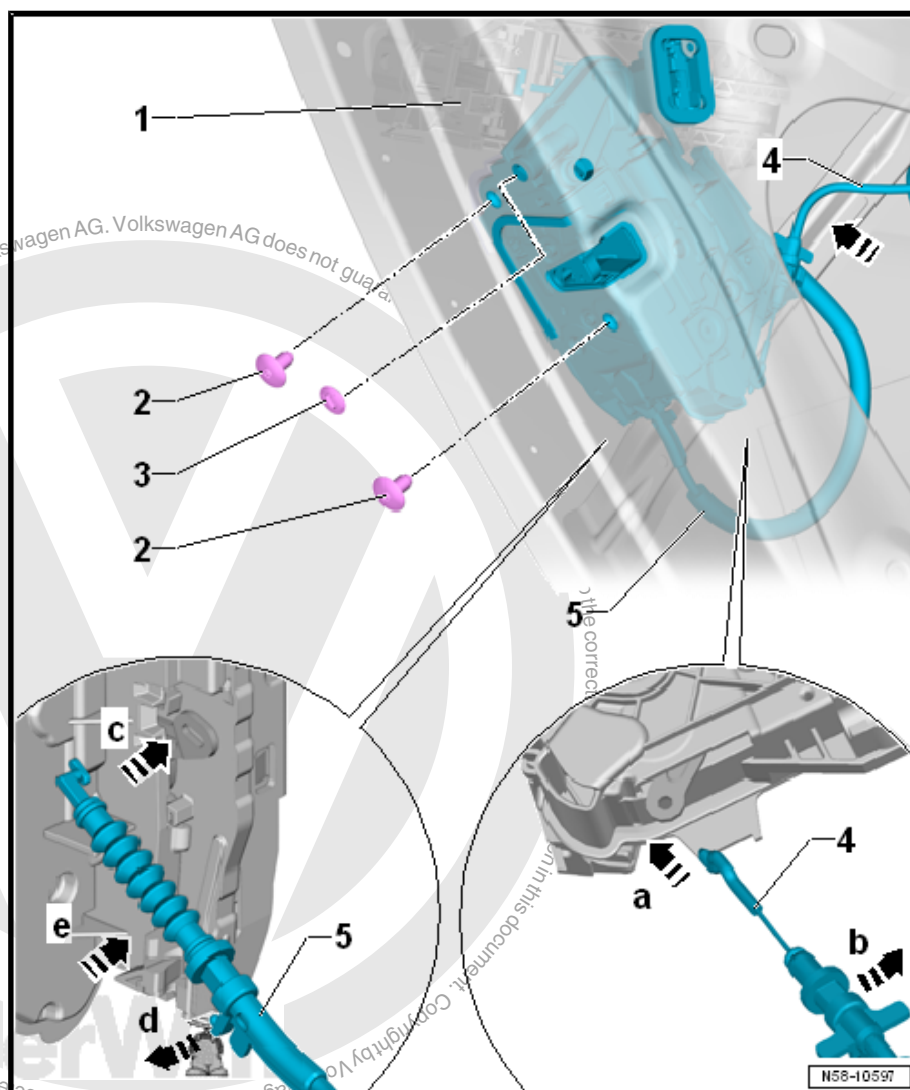


- Open the hook -3- in direction of -arrow a-.
- Pull the cover -1- with the hook from the door lock -2- -arrow b-.



- Remove the cover -1- upward -arrow c- from the door lock -2-.

Installing

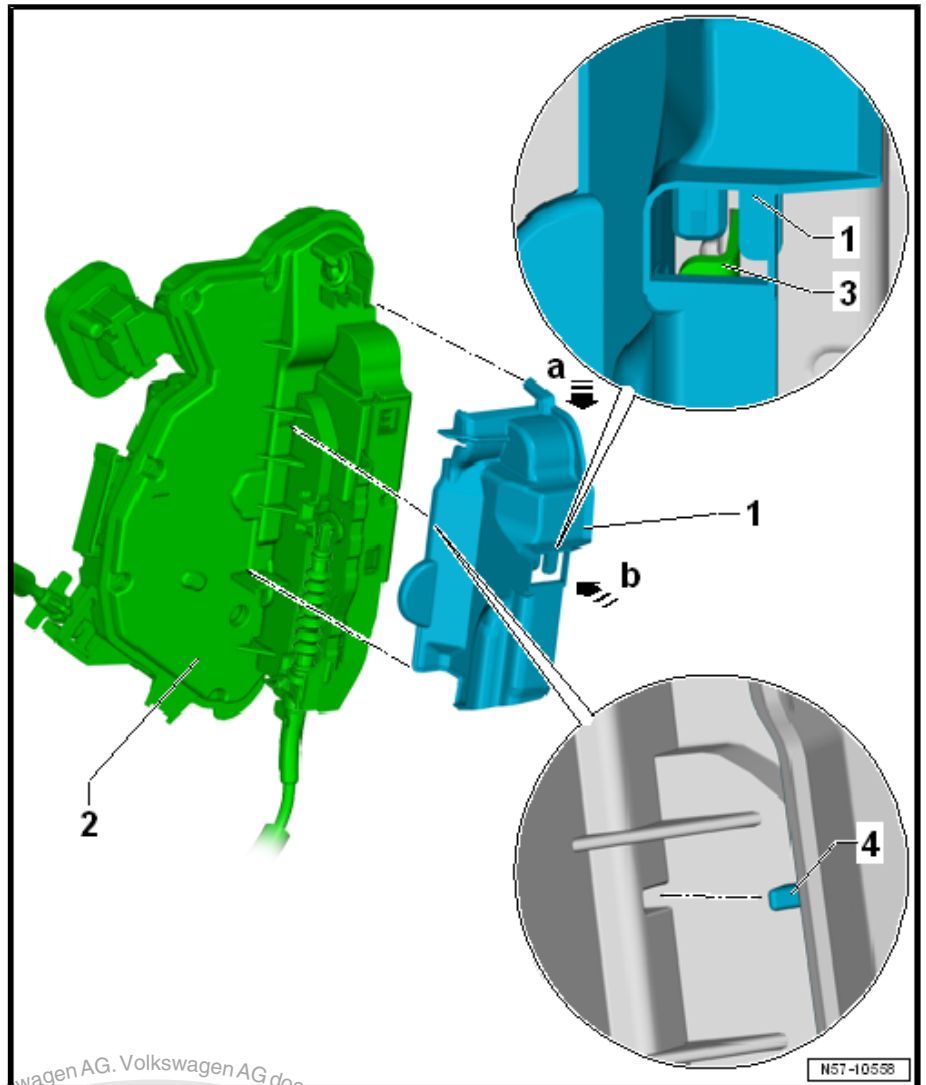


- Install the cables -4- and -5- to the door lock -1-.
- Install the cover. Refer to ➔ [page 178](#) .
- Install the door lock -1- in the door -arrow f-.
- If equipped, connect the connector.
- Install the bolts -2-.
- Install the cap -3-.

Install in reverse order of removal.

Tightening Specifications

Installing the Cover



- Push the mount -1- on the bracket -3- on the door lock -2- -arrow a-.
- Engage the catch -4- with the retainer -2- -arrow b-.

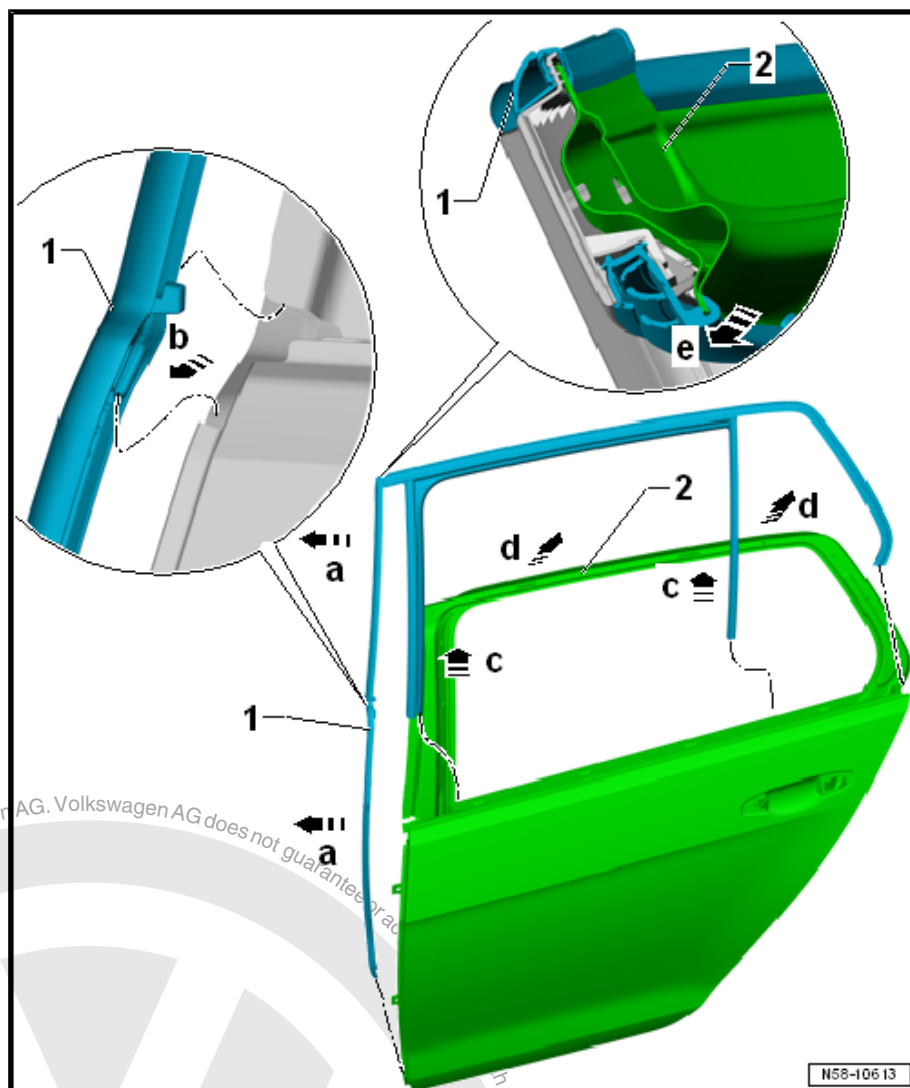
2.13 Window Guide, Removing and Installing



Note

- ◆ The following describes removing and installing the left window guide. Removing and installing right window guide is identical.
- ◆ Do not bend the window guide when removing it.

Removing

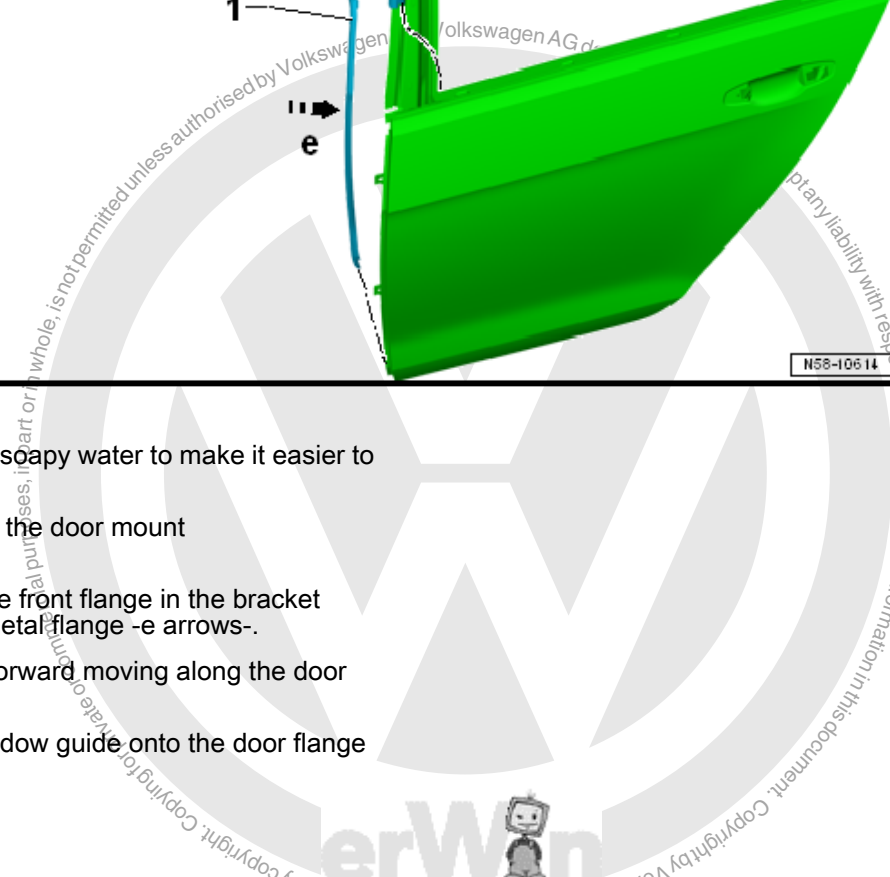


Remove the inner window shaft strip. Refer to
⇒ [“2.15 Inner Window Shaft Strip, Removing and Installing”,
page 183](#) .

Remove the outer window shaft strip. Refer to
⇒ [“2.14 Outer Window Shaft Strip, Removing and Installing”,
page 182](#) .

- Roll the sealing lip on the window guide -1- off the door flange
-2- -arrow e-.
- Remove the window guide -1- from the door mount
-c arrows-.
- Remove the window guide from the front metal flange
-a arrows- and in the transition area from the bracket
-arrow b-.
- Remove the window guide -1- -arrows c- from the door flange
-2-.

Installing



- 

Make sure the window guide -1- fits evenly when installing it (wind noises).



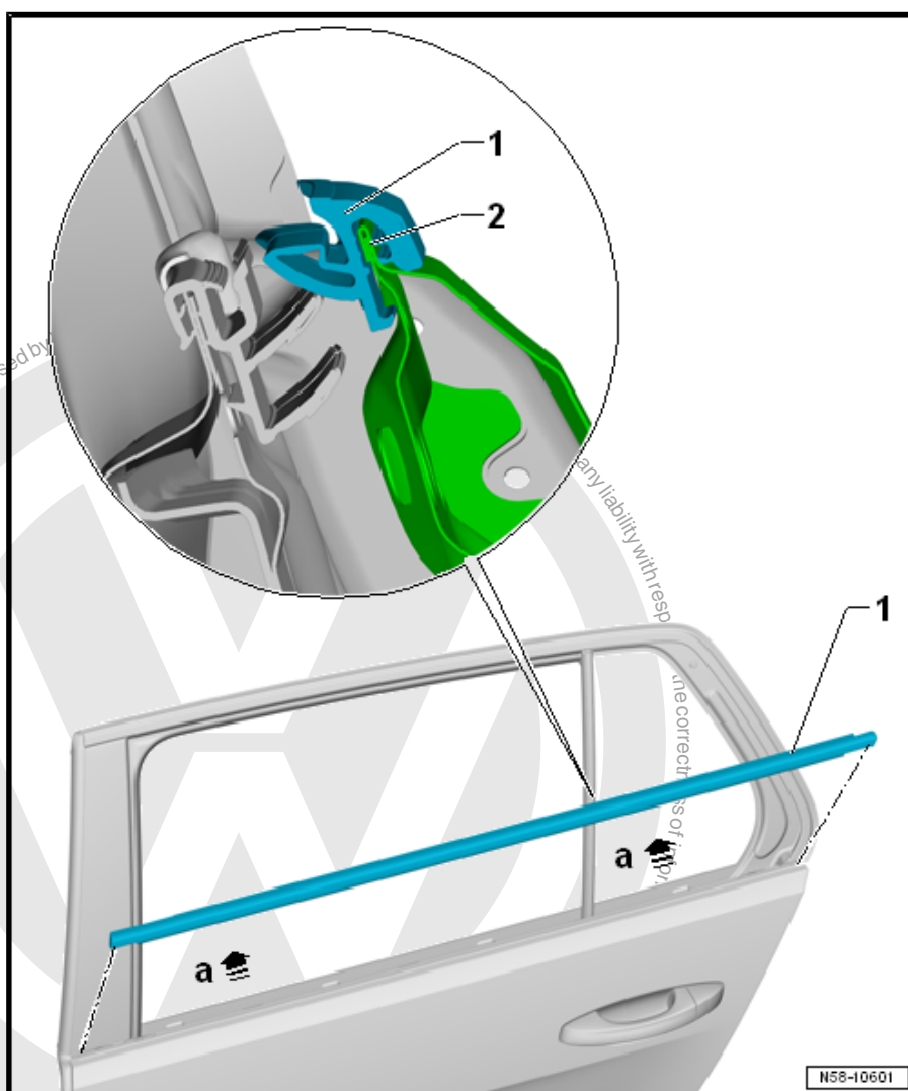


2.14 Outer Window Shaft Strip, Removing and Installing



Note

- ◆ The outer window shaft strip has a metal insert in the center.
- ◆ If it gets bent, it will not be possible to straighten it out again. It will remain "wavy".
- ◆ This is why the outer window shaft strip must be removed evenly without bending it.
- ◆ The following describes removing and installing the left outer window shaft strip. Removing and installing right window shaft strip is identical.



Removing

- Remove the outer window shaft strip -1- evenly from the door flange -2- -a arrows-. Do not bend the strip while doing so.



Installing



Note

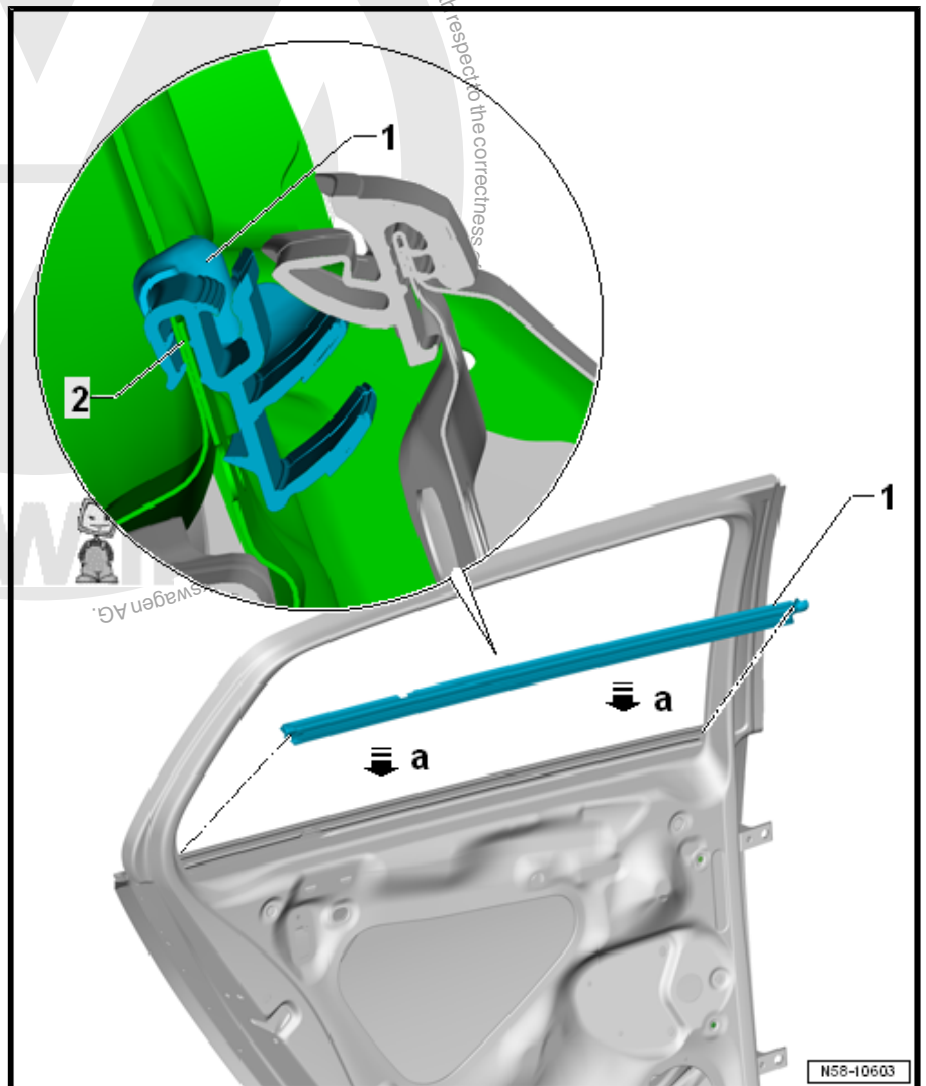
- ◆ It is permissible to use assembly aids.
- ◆ Do not use any impact tools to install the outer window shaft strip.
- Align the outer window shaft strip -1- on the B-pillar and at the same time push on the door flange -2-.

2.15 Inner Window Shaft Strip, Removing and Installing



Note

The following describes removing and installing the left inner window shaft strip. Removing and installing right window shaft strip is identical.





Removing

- Remove the rear door trim panel. Refer to ➤ Body Interior;
Rep. Gr. 70 ; Rear Door Trim Panels; Rear Door Trim Panel,
Removing and Installing .
- Pry the inner window shaft strip -1- evenly and without bending
from the flange -2-.

Installing

- Center the inner window shaft strip -1- and push on the front
door flange -2- evenly -a arrows- by hand.

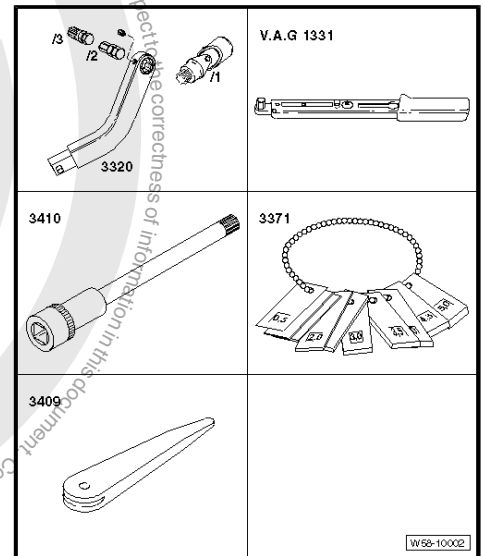




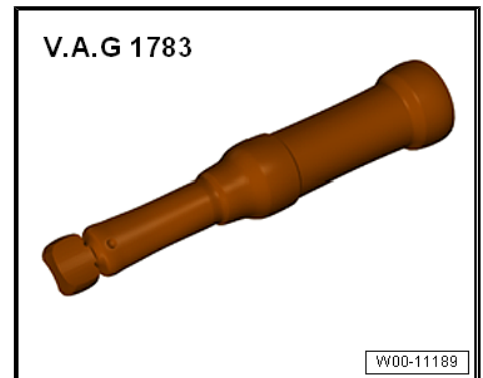
3 Special Tools

Special tools and workshop equipment required

- ◆ Wrench - Door Adjusting - 3320-
- ◆ Joint for 3320 Tool - 3320/1-
- ◆ Wrench - Door Adjusting - Box Wrench - 3320/2-
- ◆ Wrench - Door Adjusting - Box Wrench - 3320/3-
- ◆ Gauge - Gap Adjustment - 3371-
- ◆ Trim Removal Wedge - 3409-
- ◆ Cylinder Head Bolt Socket - 3410-
- ◆ Torque Wrench 1331 5-50Nm - VAG1331-



- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-





60 – Sunroof

1 Sunroof

- ⇒ [“1.1 Overview - Sunroof”, page 186](#)
- ⇒ [“1.2 Overview - Sunroof Shade”, page 189](#)
- ⇒ [“1.3 Sunroof Frame, Removing and Installing”, page 189](#)
- ⇒ [“1.4 Wind Deflector, Removing and Installing”, page 197](#)
- ⇒ [“1.5 Glass Panel, Removing and Installing”, page 199](#)
- ⇒ [“1.6 Glass Panel, Adjusting”, page 204](#)
- ⇒ [“1.7 Slotted Guide Rail Guide, Removing and Installing”, page 206](#)
- ⇒ [“1.8 Sliding Sunroof Front Trim, Removing and Installing”, page 209](#)
- ⇒ [“1.9 Power Sunroof Control Module J245 , Removing and Installing”, page 215](#)
- ⇒ [“1.10 Sunroof, Closing Manually”, page 219](#)
- ⇒ [“1.11 Sunroof Seals, Removing and Installing”, page 221](#)
- ⇒ [“1.12 Sunroof Shade, Removing and Installing”, page 222](#)
- ⇒ [“1.13 Power Sunroof Control Module J245 , Programming”, page 232](#)

1.1 Overview - Sunroof



1 - Panorama Sunroof Glass Panel (One-Piece Safety Glass)

- ☐ Remove the glass panel. Refer to
⇒ ["1.5 Glass Panel, Removing and Installing", page 199](#) .
- ☐ Remove the glass panel if the if the drive motor is defective. Refer to
⇒ ["1.5.2 Glass Panel, Removing, Defective Drive Motor", page 203](#) .
- ☐ Glass Panel, Adjusting. Refer to
⇒ ["1.6 Glass Panel, Adjusting", page 204](#) .

2 - Bolt

- ☐ Screws are microencapsulated and must always be replaced after removing.
- ☐ Quantity: 6
- ☐ 5.5 Nm

3 - Sunroof Frame Seal

- ☐ Removing and installing. Refer to
⇒ ["1.11.1 Sunroof Frame Seal, Removing and Installing", page 221](#) .

4 - Sunroof Shade

- ☐ Removing and installing. Refer to
⇒ ["1.12 Sunroof Shade, Removing and Installing", page 222](#) .

5 - Sunroof Frame

- ☐ Sunroof Frame, Removing and installing. Refer to
⇒ ["1.3 Sunroof Frame, Removing and Installing", page 189](#) .
- ☐ if necessary use special grease G 060 751 A2 exclusively to grease guide channels, otherwise the functions cannot be guaranteed.

6 - Bolt

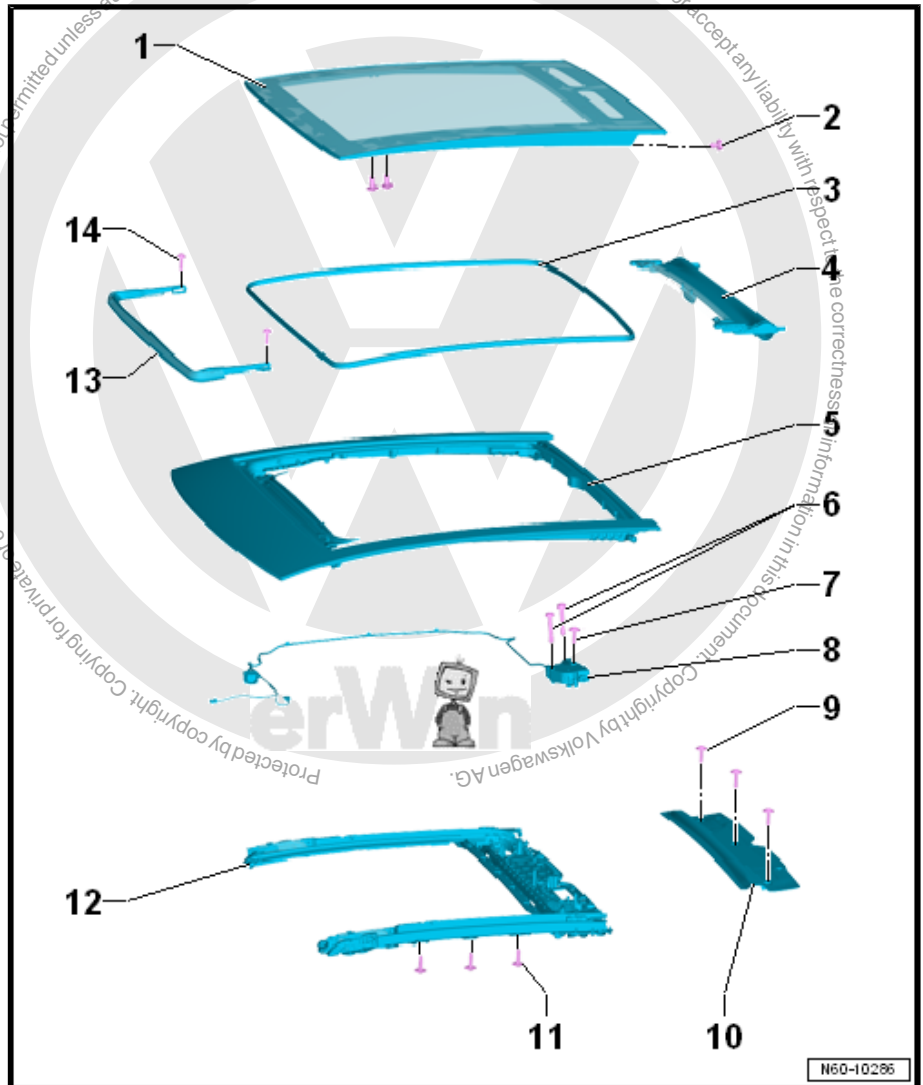
- ☐ 4 Nm
- ☐ For the sunroof motor
- ☐ Quantity: 3

7 - Bolt

- ☐ 4 Nm
- ☐ For the sunroof motor
- ☐ Quantity: 1

8 - Power Sunroof Control Module - J245-

- ☐ Control module, removing and installing
⇒ ["1.9 Power Sunroof Control Module J245 , Removing and Installing", page 215](#)
- ☐ Adapt the control module. Refer to
⇒ ["1.13 Power Sunroof Control Module J245 , Programming", page 232](#) .





9 - Bolt

- ☐ 2.5 Nm
- ☐ For the cover.
- ☐ Quantity: 5

10 - Cover

11 - Bolt

- ☐ 3 Nm
- ☐ Screws are microencapsulated and must always be replaced after removing.
- ☐ Quantity: 13

12 - Slotted Guide Rail Guide

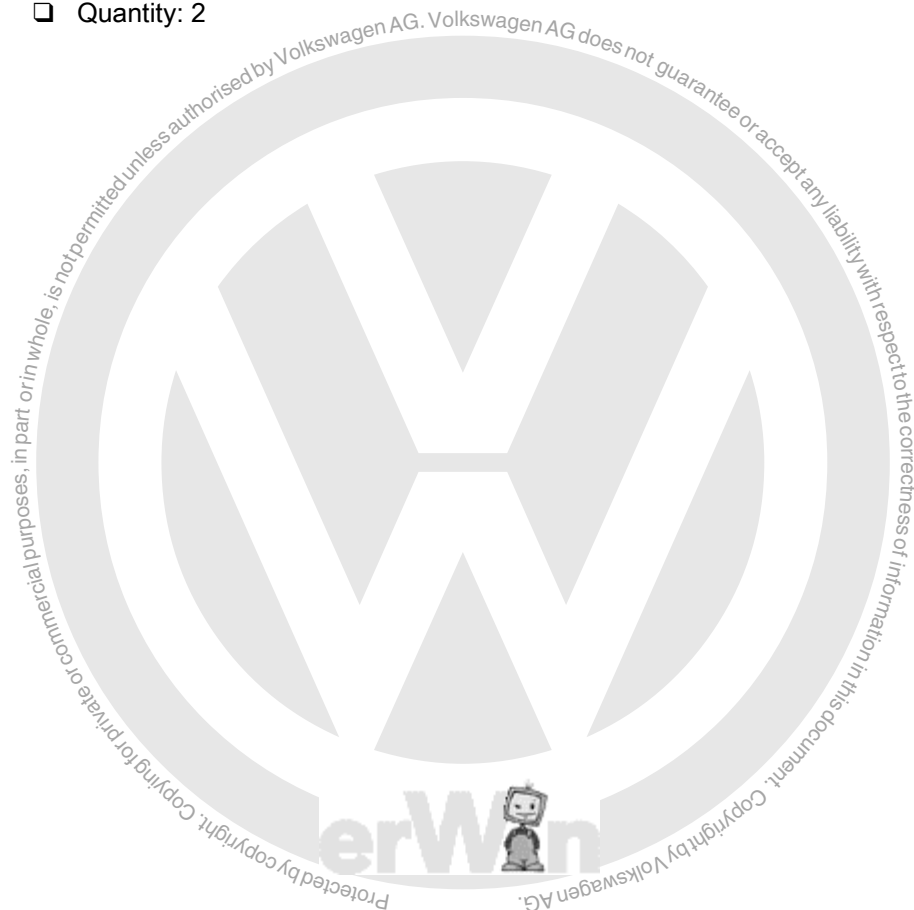
- ☐ With tilting mechanism and cables
- ☐ One component with the carrier, sun shade and control module
- ☐ Removing and installing. Refer to [⇒ "1.7 Slotted Guide Rail Guide, Removing and Installing", page 206](#) .

13 - Wind Deflector

- ☐ Removing and installing. Refer to [⇒ "1.4 Wind Deflector, Removing and Installing", page 197](#) .

14 - Bolt

- ☐ 2 Nm
- ☐ For the wind deflector
- ☐ Quantity: 2





1.2 Overview - Sunroof Shade

1 - Sunroof Shade

- ❑ Removing and installing. Refer to
⇒ ["1.12 Sunroof Shade, Removing and Installing", page 222](#) .

2 - Mount

- ❑ for the sunroof shade fabric

3 - Bolt

- ❑ Quantity: 2
- ❑ 2 Nm

4 - Tension Wire

- ❑ For attaching the material in the side rail

5 - Tappet

6 - Slider

7 - Tension Bow

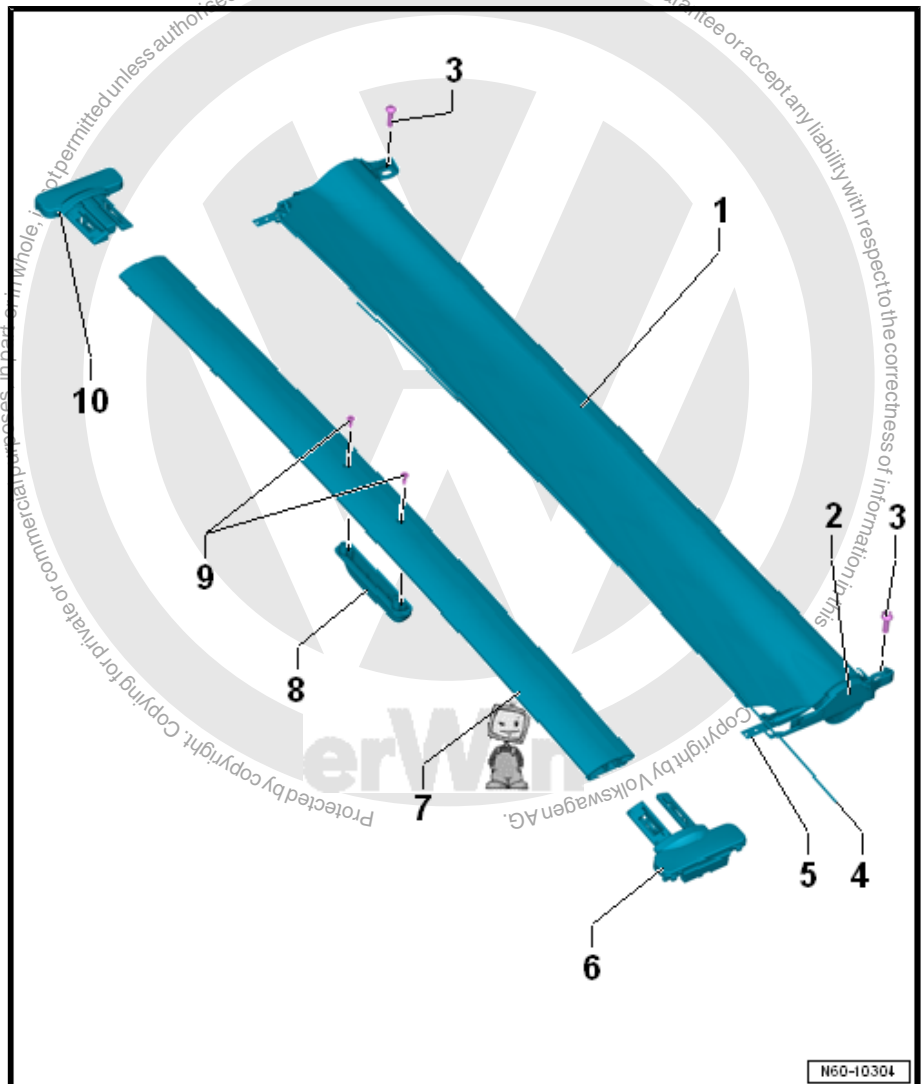
- ❑ Removing and installing. Refer to
⇒ [page 229](#) .

8 - Handle

9 - Bolt

- ❑ 1 Nm
- ❑ For the handle
- ❑ Quantity: 2

10 - Slider



1.3 Sunroof Frame, Removing and Installing

Special tools and workshop equipment required

- ◆ Double Cartridge Gun - VAS5237-
- ◆ Window Cutter - VAG1561A-
- ◆ Blade, L-shaped, 19 mm - VAG1561/21-

Materials

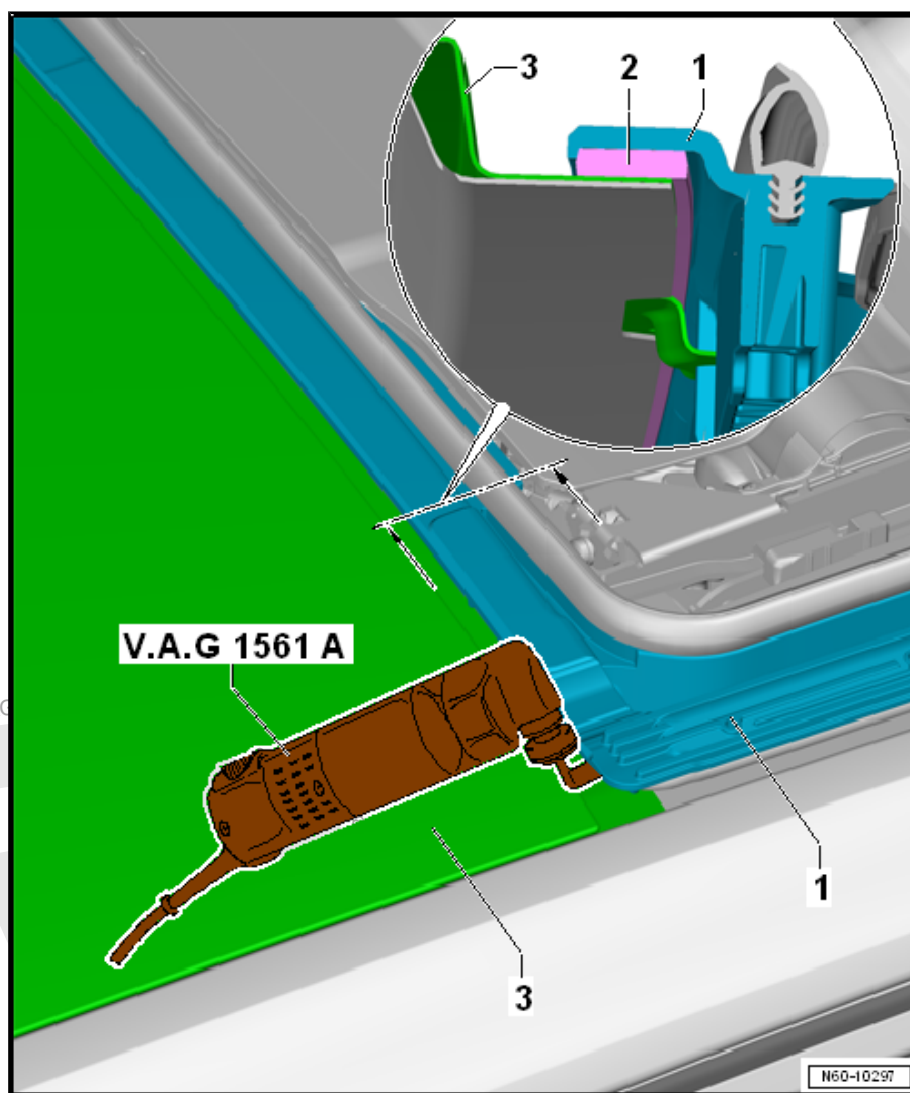
- ◆ 2K window adhesive 1) 1 2) 2 3) 4
- ◆ Activator 1) 1
- ◆ Glass primer/paint primer 1) 1
- ◆ Cleaning Solution 1) 1
- ◆ Applicator 1) 1



- ◆ Adhesive Remover 1) 1
- ◆ Cutting Wire 357 853 999

- 1) Follow the manufacturer instructions supplied in the packaging.
- 2) Observe minimum curing time.
- 3) To apply this material the Double Cartridge Gun - VAS5237- must be used.

Removing



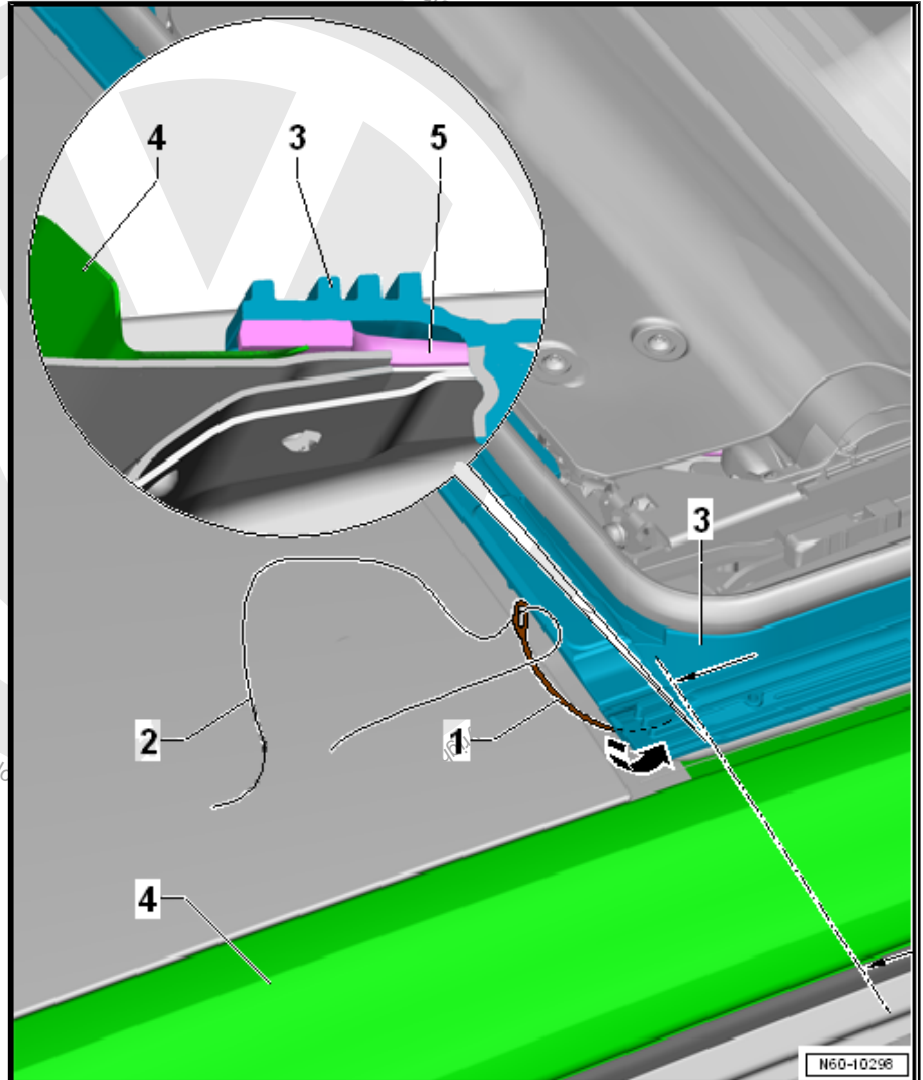
- Remove the glass panel. Refer to
⇒ ["1.5 Glass Panel, Removing and Installing", page 199](#) .
- Remove headliner. Refer to ⇒ Body Interior; Rep. Gr. 70 ;
Roof Trim Panels; Headliner, Removing and Installing .
- Remove the front trim. Refer to
⇒ ["1.8 Sliding Sunroof Front Trim, Removing and Installing",
page 209](#) .
- Tape off the roof pillar and roof edge -3-, to protect the paint
from damage.
- Pierce and cut through the rear adhesive bead -2- using the
Window Cutter - VAG1561A- with the Blade, L-shaped, 19 mm
- VAG1561/21



Note

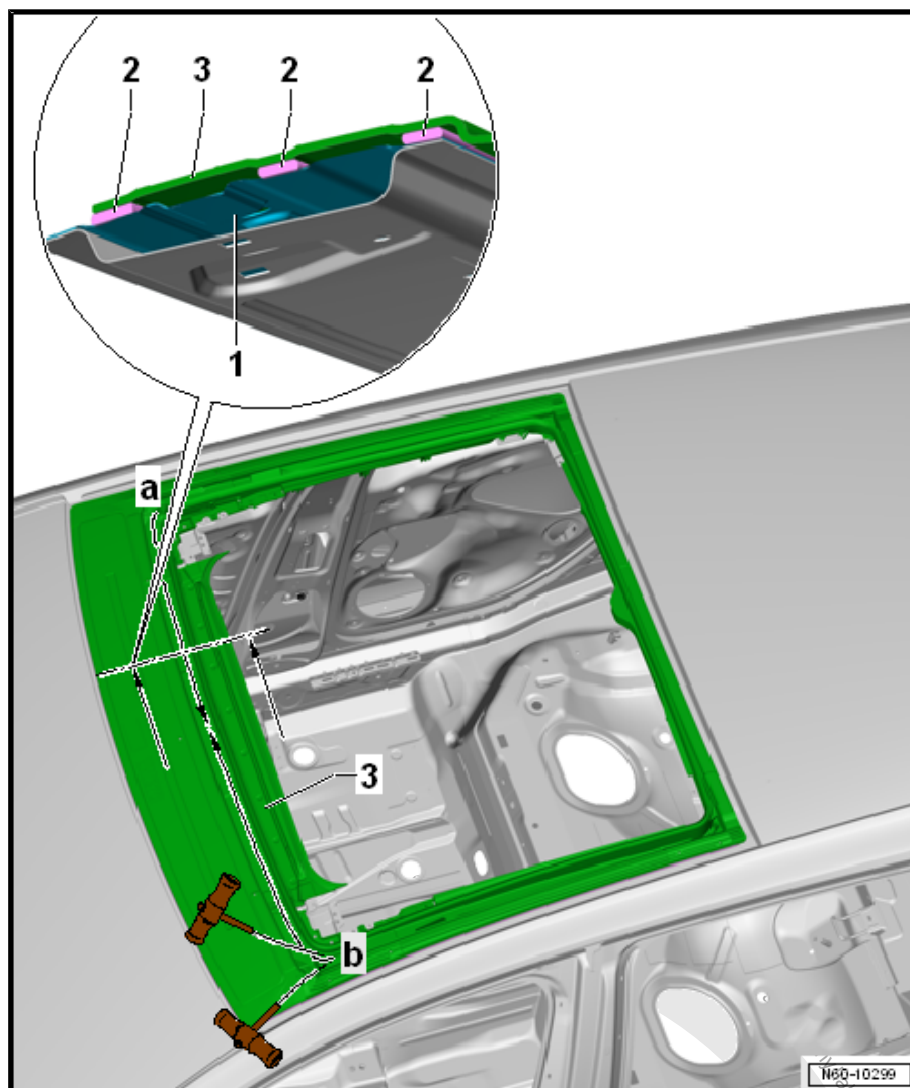
In the rear center there is a plastic alignment pin.

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- Guide the Cord - 357 853 999- -2- under the frame -3-.

The needle -1- from the Window Removing Kit - VAG1755- can be used to help.



- Tighten the cord at each end with a handle from the Window Removing Kit - VAG1755- .

A second technician is required for detaching the adhesive bead -2-.

- One person pulls out and the other pulls inward.



Note

- ◆ *There are three adhesive beads on the front roof crossmember that require more force.*
- ◆ *Guide the cord close to the frame, so that it is not cut by the surrounding edge.*
- Cut the adhesive bead -2- starting at the back -arrow a- until over the center of the front roof crossmember -3-.
- Place the cord on the other side.
- Cut the adhesive bead again starting at the back -arrow b- until the front roof crossmember.
- Remove the frame -3-.



Note

- ◆ The exact location of the adhesive beads is to be transferred from the removed frames to the new frames.
- ◆ Also the location of the adhesive beads on the sheet metal flange is to be transferred if a new roof is installed.

Installing

Minimum Curing Time



WARNING

There are special requirements for replacing bonded frame. This includes, for example, a newly bonded frame is safe for vehicle operation also in case of an accident after a specified minimum curing time.

The vehicle is operationally ready only after the minimum curing time has elapsed.

Observe minimum curing time.

The minimum curing time for the 2K Window Adhesive is two hours.

Curing time means the time from when it is bonded to when the vehicle is put back into use. During this time, the vehicle must be on a level surface at room temperature (at least 15 °C).

Preparing the body flange for adhesion

- Cut back remaining material on the body flange using U-Shape Scraper - VAG1561/3- , do not remove all residue under any circumstance.



Note

The remaining material serves as a base for the new adhesive sealant being applied. Keep adhesive surfaces free of dirt and grease.



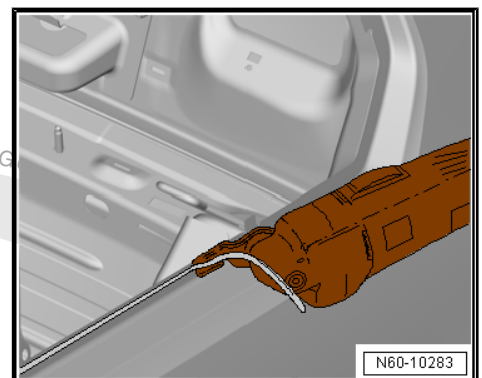
WARNING

The activator must not come into contact with the paint or the paint will be damaged.

Exception: If bonding is not performed immediately after cutting back, the remaining material must be activated using the Activator .

- ◆ If the window flange is being repair or partially replaced, the corresponding area must be clean and primed again before painting.

Installing





- Apply the adhesive sealing material all around the circumference at a right angle to the frame.



WARNING

The frame must be installed within 10 minutes or the adhesive will not bond well.

Do not apply the adhesive bead too thickly and do not press the frame too firmly onto the body flange.

- ◆ Place the frame in the opening, center it, and press it onto the spacer.

Paint Damage, Repairing

If there is paint damage, recreate paint structure according to guidelines in the “Paint” repair manual.

Adhesive Sealant, Removing from Window

- Adhesive Remover is the recommended cleaning solution. Follow all safety precautions.



WARNING

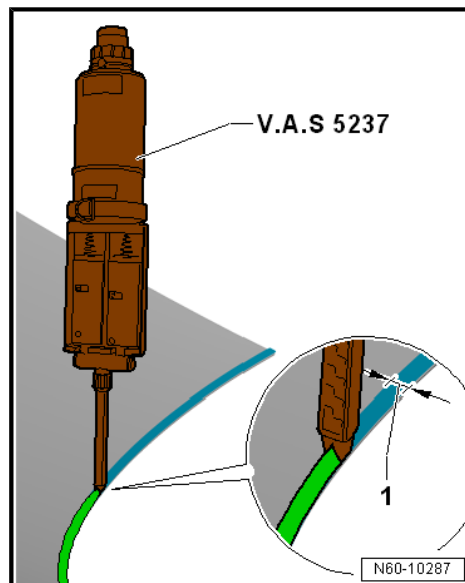
When cleaning from vehicle interior out, the frame that was just installed must not be pressed outward.

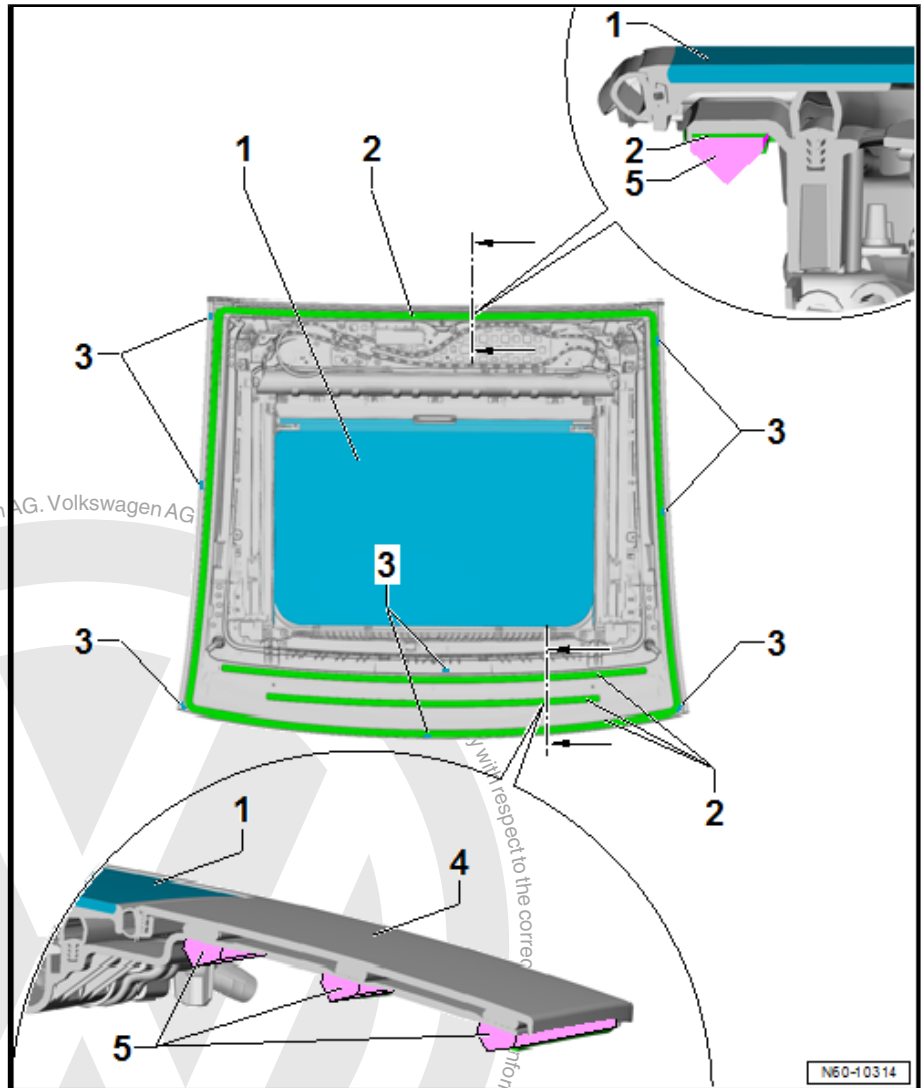
- Wipe the paint surfaces with a clean cloth. Clean any remaining dirt with Adhesive Remover .
- Clean the plastic trim: let the adhesive sealant harden for approximately 1 hour and then peel it off.



Note

- ◆ On the new frame the trim is already attached.
- ◆ For a frame that is being used again, residual material acts as a base for the new adhesive sealing material.
- ◆ Cut back the remaining adhesive sealant to 1 mm shortly before re-adhering, do not damage the primer coating.





WARNING

***Do not prime or use a cleaning solution on the adhesive bead.
Keep the adhesive surface free of dirt and grease.***

Exception: if adhesion is not performed immediately after the adhesive sealing material is cut, the remaining material must be activated using activator D 181 801 A1.

Working on a new frame:

- Lightly sand the adhesive surface with a fine sandpaper.
- Clean around the adhesive surface -2- with the Cleaning Solution .
- Apply Glass/Paint Primer with the applicator evenly in one stroke.
- The drying time for the glass/paint primer is 10 minutes.

Working on all frames:

- Install the glass panel -1- in the frame -4-.
- Check the radial run-out numbers -3-.



- Apply 2K Window Adhesive . Dimensions for adhesive bead -5-: width 12 mm, height 10 mm.



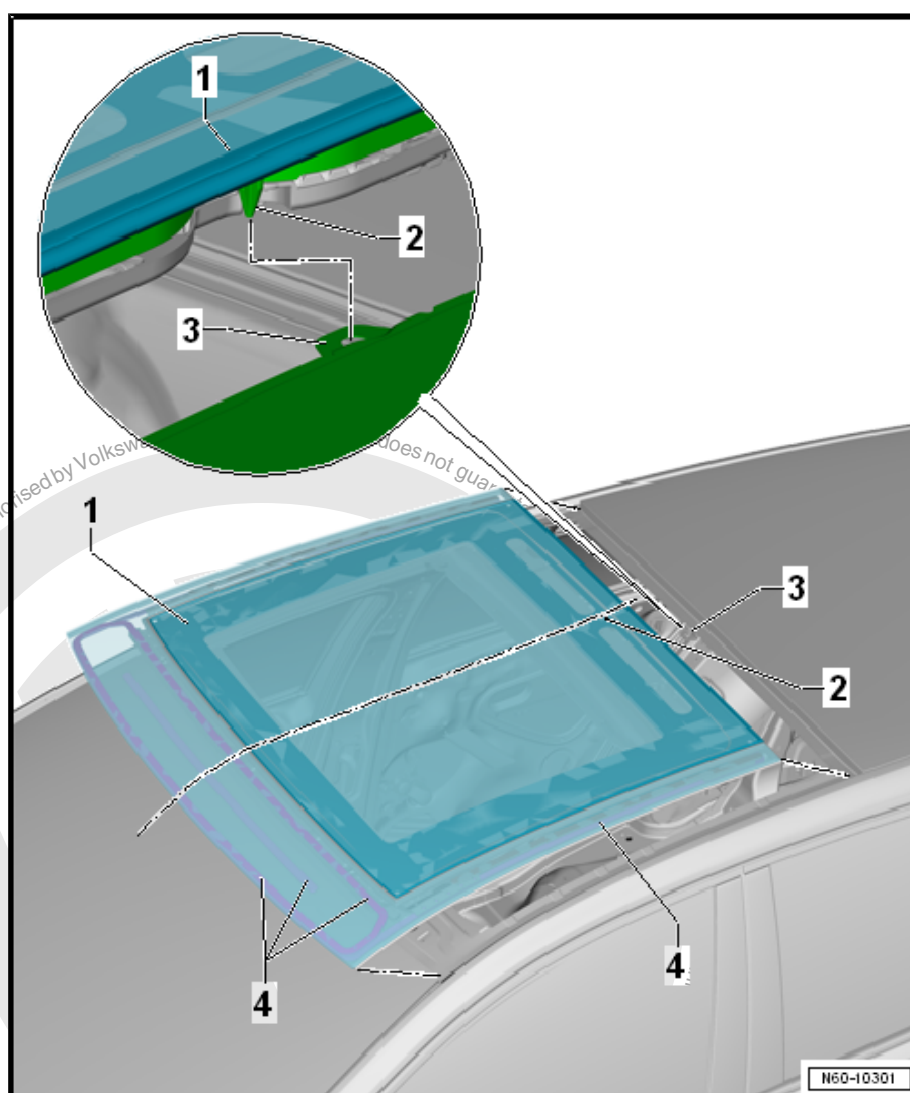
WARNING

The frame must be applied within 10 minutes after applying adhesive otherwise the adhesive sealing material will not adhere properly.



Note

To install the frame, the glass panel -1- must first be installed.



- Install the frame with glass panel in the roof opening.

New frame

- The centering pins -3- center the frame in the opening.
- Press in the frame all the way until it stops. Then check the height adjustment to the roof. Refer to [⇒ "1.6 Glass Panel, Adjusting", page 204](#) .



Existing frame

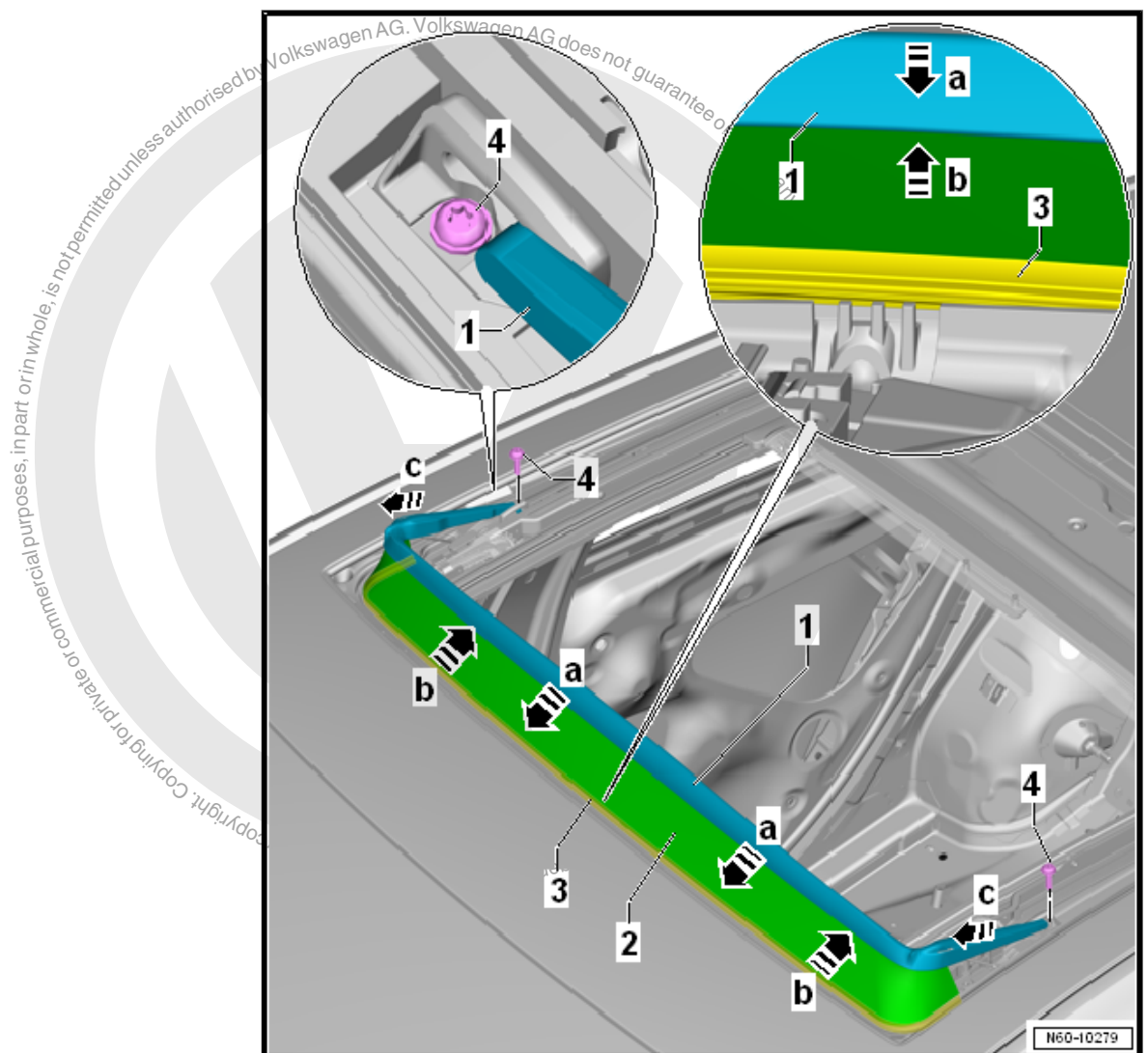
- Since the alignment pin is no longer present, the frame is centered in the roof opening -2-.
- Press in the frame all the way until it stops. Then check the height adjustment to the roof. Refer to [⇒ "1.6 Glass Panel, Adjusting", page 204](#).
- Observe the minimum curing time. Refer to [⇒ page 193](#).

1.4 Wind Deflector, Removing and Installing

Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-

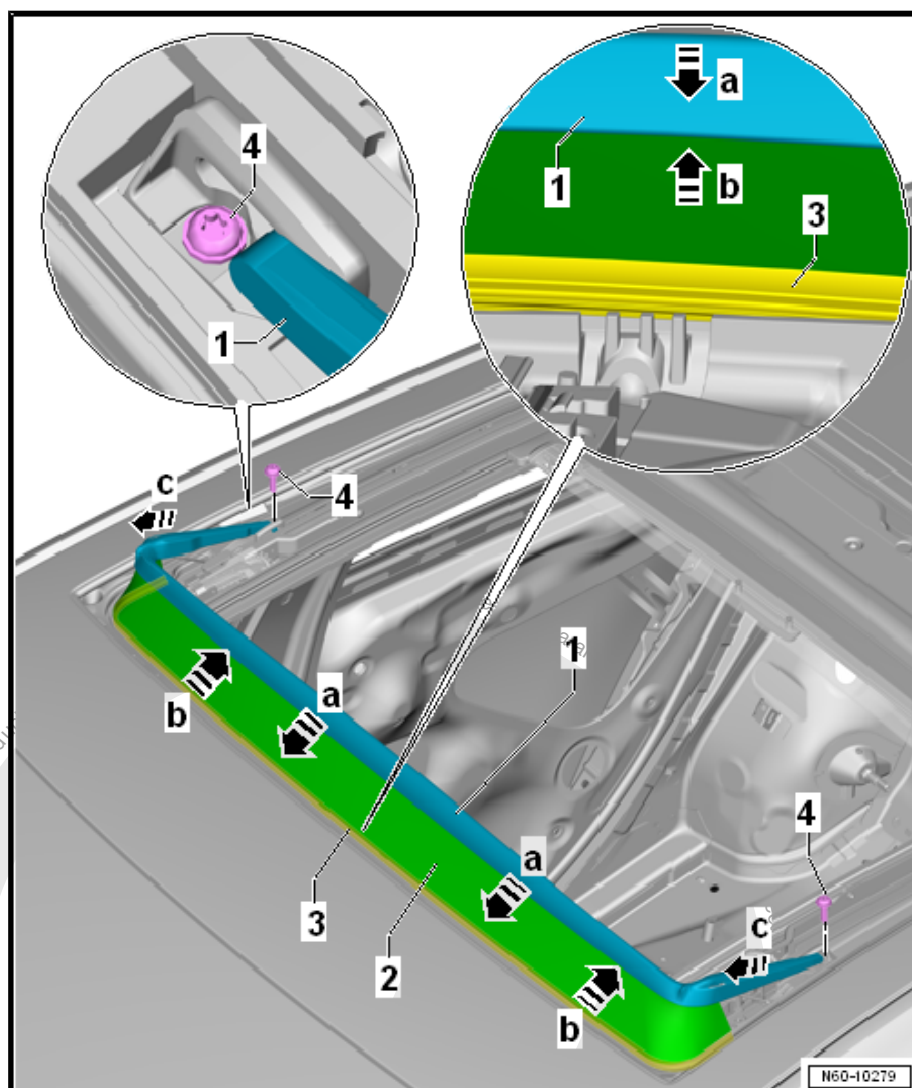
Removing



- Open the glass panel completely.
- Reduce the tension for the wind deflector -2- -arrows a- and keep it pressed.
- Remove the weather strip -3- from the frame -arrow b-.
- Remove the left and right bolts -4-.
- Remove the wind deflector from the frame -arrow c-.



Installing



- Install the wind deflector in the frame.
- Tighten the left and right bolts -4-.
- Reduce the tension for the wind deflector -2- -arrows a- and keep it pressed.
- Install the weather strip -3- in the frame.



Tightening Specifications

1.5 Glass Panel, Removing and Installing

⇒ ["1.5.1 Glass Panel, Removing and Installing", page 199](#)

⇒ ["1.5.2 Glass Panel, Removing, Defective Drive Motor", page 203](#)

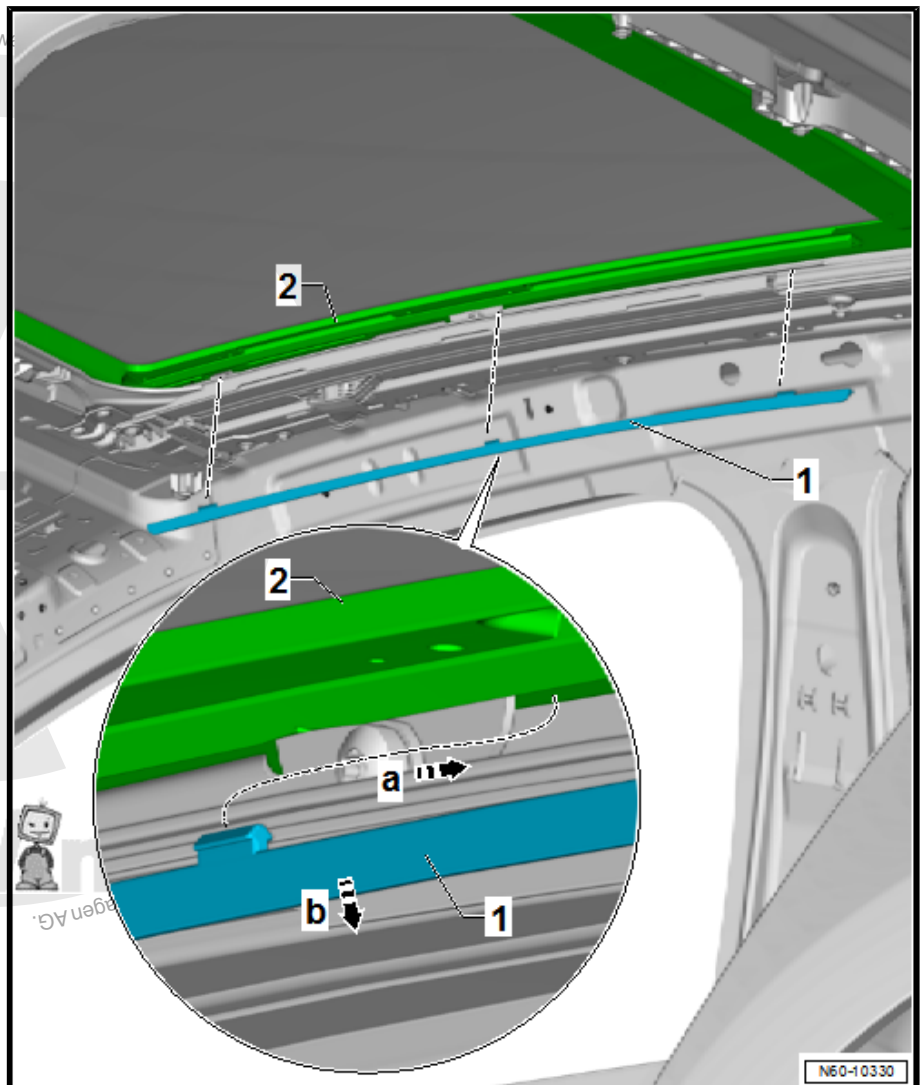
1.5.1 Glass Panel, Removing and Installing

Removing

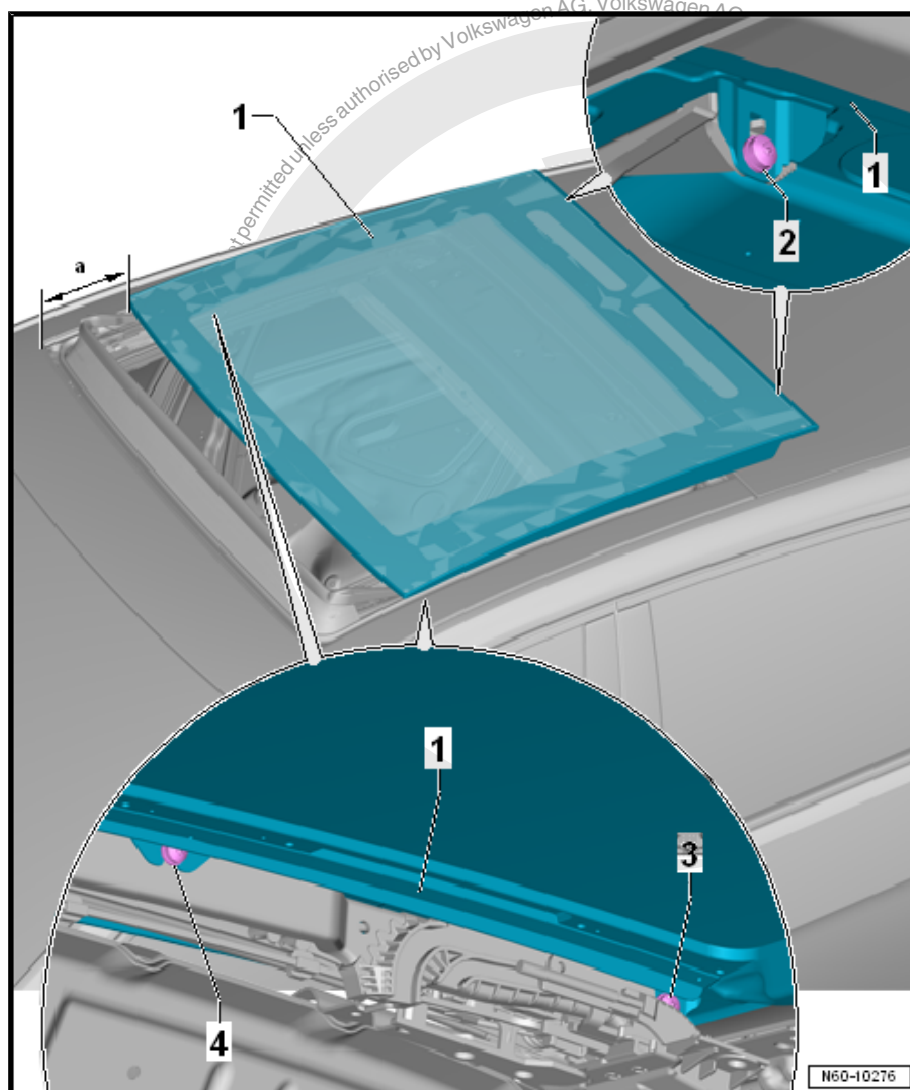


Note

- ◆ The headliner is not shown for better illustration.
- ◆ The headliner is not removed.



- Open the sun shade all the way.
- Slide the trim -1- slightly rearward -arrow a-.
- Remove the trim -1- from the sunroof frame -2- -arrow b-.



- Open the sun shade all the way.
- Open the panorama sunroof glass panel 150 mm -dimension a-
- Do not remove the bolt -2-.
- Loosen the front left and right bolts -4-, but do not remove.
- Remove the left and right rear bolt -3-.
- Lift out the glass panel -1-.



Note

Close the mechanical system with the button in order to avoid damage during further work.

Installing

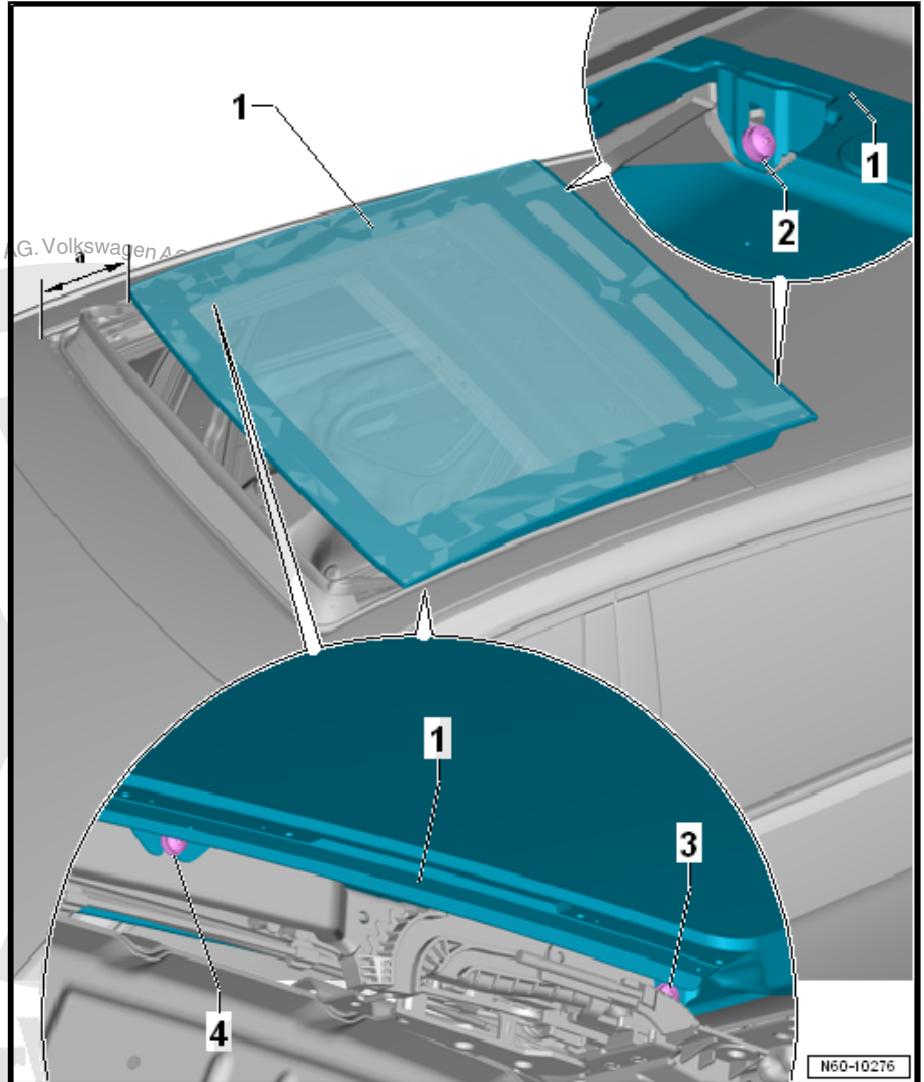
Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

Screws are microencapsulated and must always be replaced after removing.



- Open the mechanical system with the button 150 mm -dimension a-.
- Position the glass panel -1- on the tilting mechanism.
- Only lightly tighten the left and right bolts -2, 3 and 4-.
- Adjust the panorama sunroof glass panel (height adjustment).
Refer to ➔ [“1.6 Glass Panel, Adjusting”, page 204](#) .



Note

Tighten the bolts -2, 3 and 4- after the panel height adjustment.

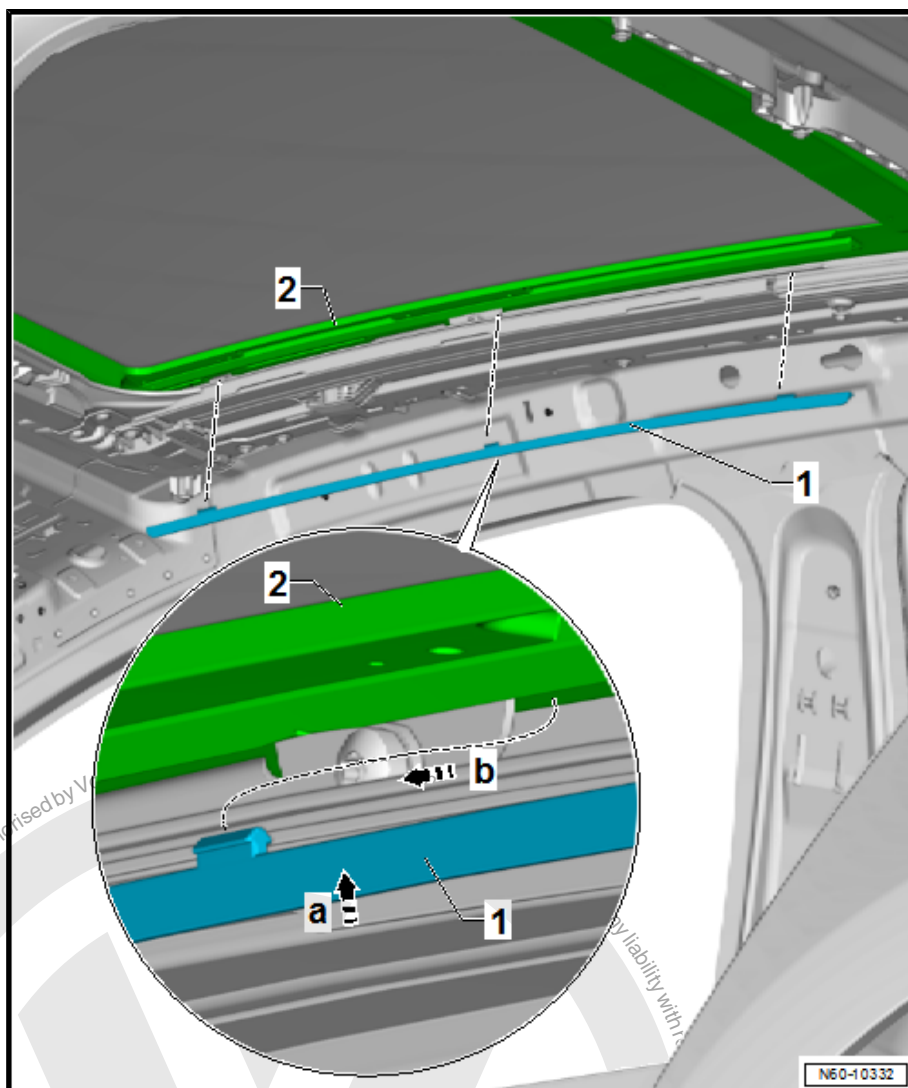


Tightening Specifications



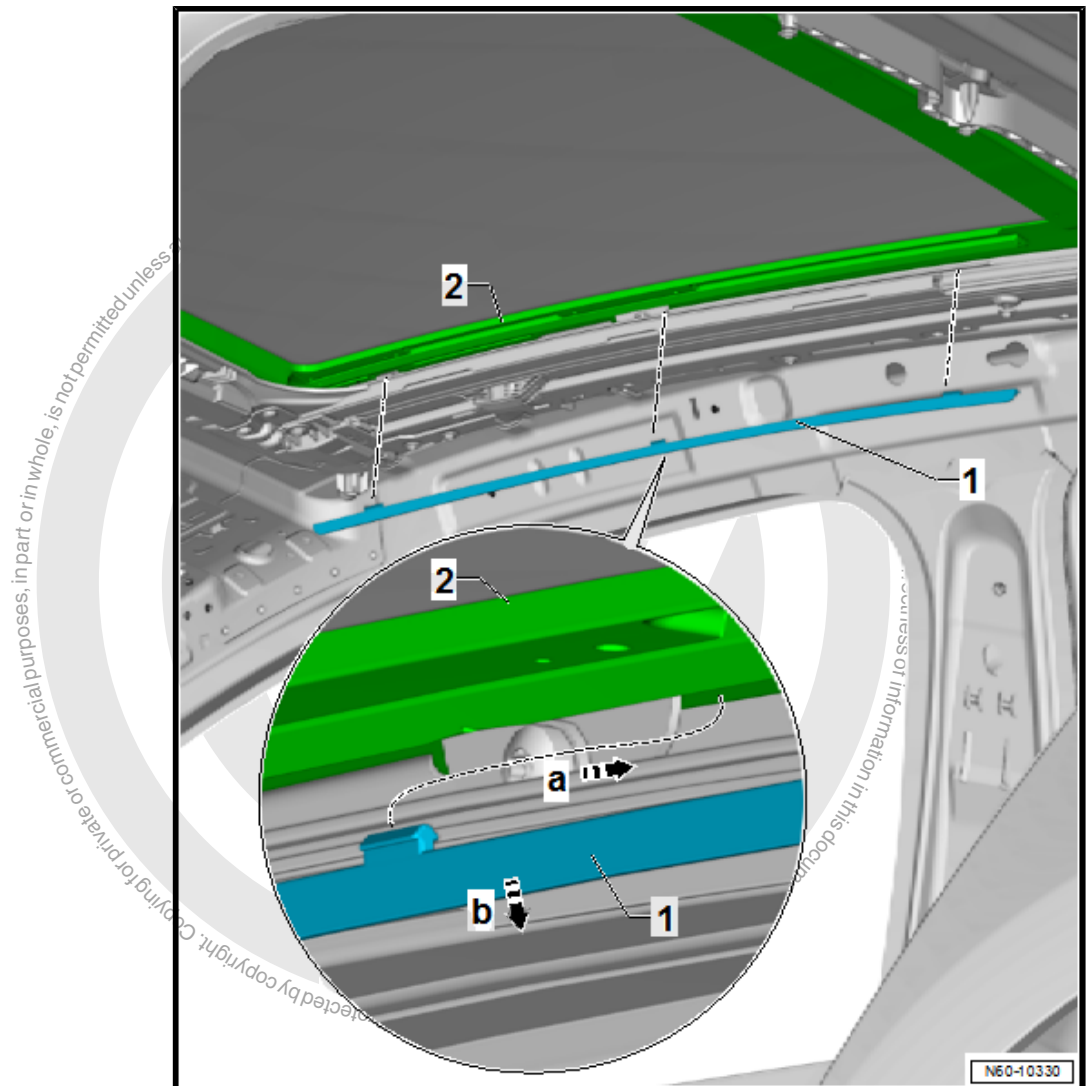
Note

- ♦ The headliner is not shown for better illustration.
- ♦ The headliner is not removed.

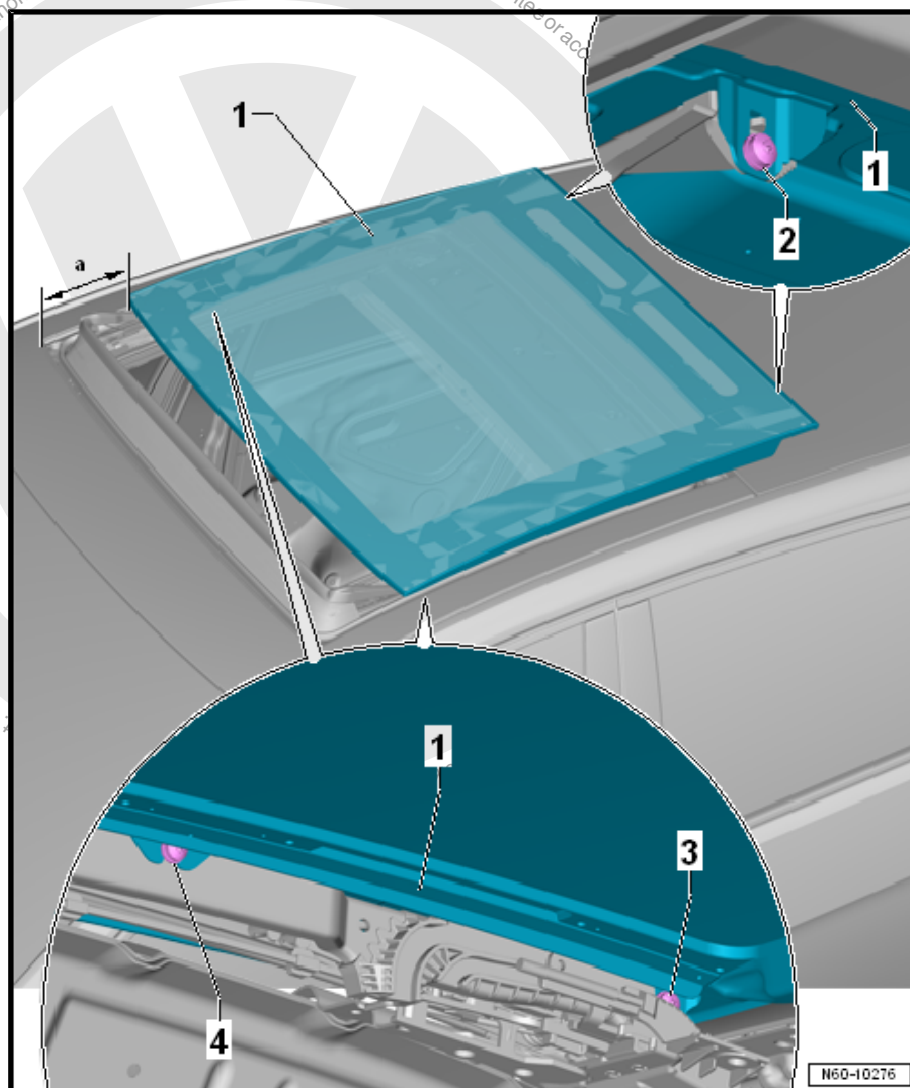


- Install the trim -1- in the sunroof frame -2- -arrow a-.
- Push the trim -1- slightly rearward -arrow b-.

1.5.2 Glass Panel, Removing, Defective Drive Motor



- Open the sun shade all the way.
- Push the trim -1- slightly forward -arrow a-.
- Remove the trim -1- from the sunroof frame -2- -arrow b-.



- Open the sun shade all the way.
- Remove headliner. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Roof Trim Panels; Headliner, Removing and Installing .
- Remove the rear bolts -2- from the vehicle.
- Loosen the front left and right bolts -4-, but do not remove.
- Remove the left and right rear bolt -3-.
- Lift out the glass panel -1-.



Note

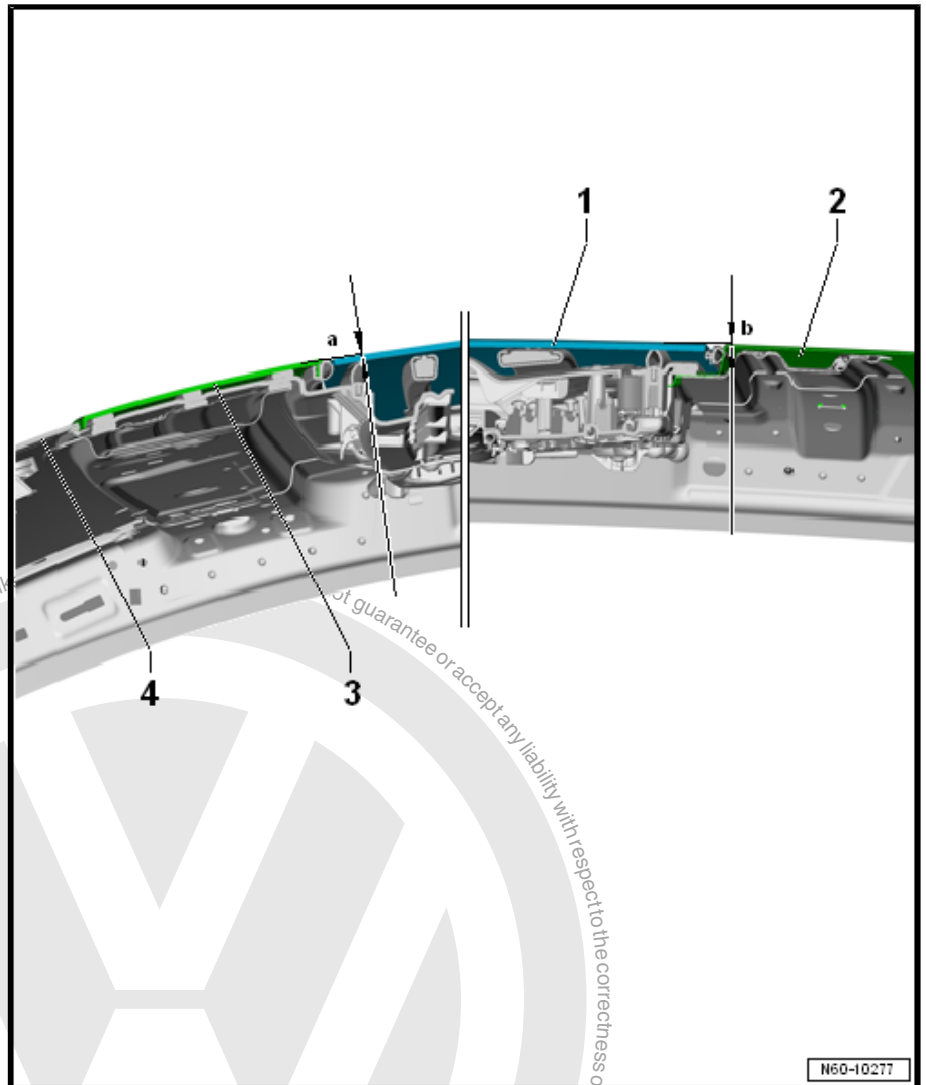
Close the mechanical system with the button in order to avoid damage during further work.

1.6 Glass Panel, Adjusting

Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-

Glass Panel Height Adjustment



- Loosen the bolts for the glass panel.
- Move the glass panel for the panorama sunroof into the "open" position.
- Move the glass panel for the panorama sunroof into the "closed" position.
- Perform glass panel height adjustment at the front and rear on both sides as follows:

Front panel adjustment:

- Dimension a- = 1 mm lower than assembly frame -3-.
- Push the inner seal aside.
- Tighten the front inner bolts.

Rear panel adjustment:

- Dimension b- = 1 mm higher than the roof contour -2-
- Tighten the rear inner bolts.
- Open the cover and tighten the rear bolts.



Note

- ♦ To achieve the best possible exterior optical characteristics, make sure that the adjustment on left and right sides is performed as evenly (symmetrically).
- ♦ Glass panel must not be higher than roof at any point at front or lower than roof at any point at rear.

Tightening Specifications

1.7 Slotted Guide Rail Guide, Removing and Installing

Special tools and workshop equipment required

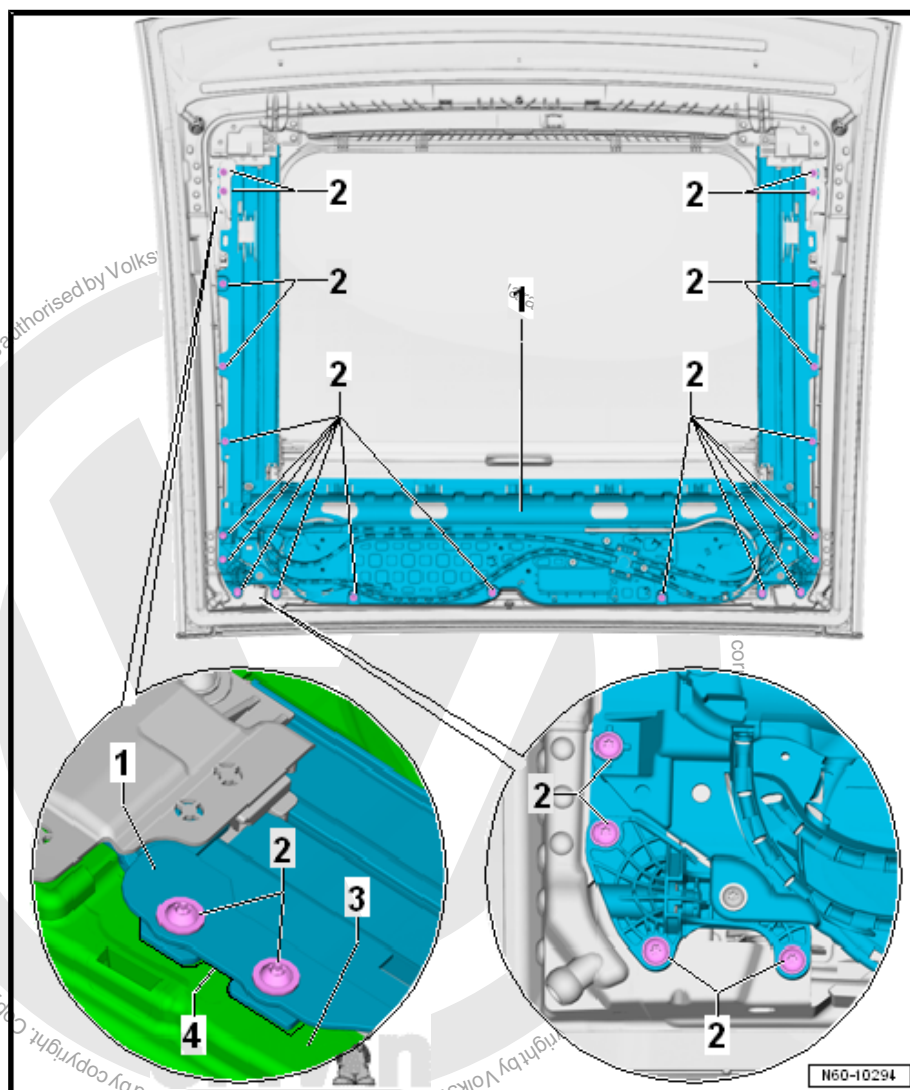
- ♦ Torque Wrench 1783 - 2-10Nm - VAG1783-

Removing



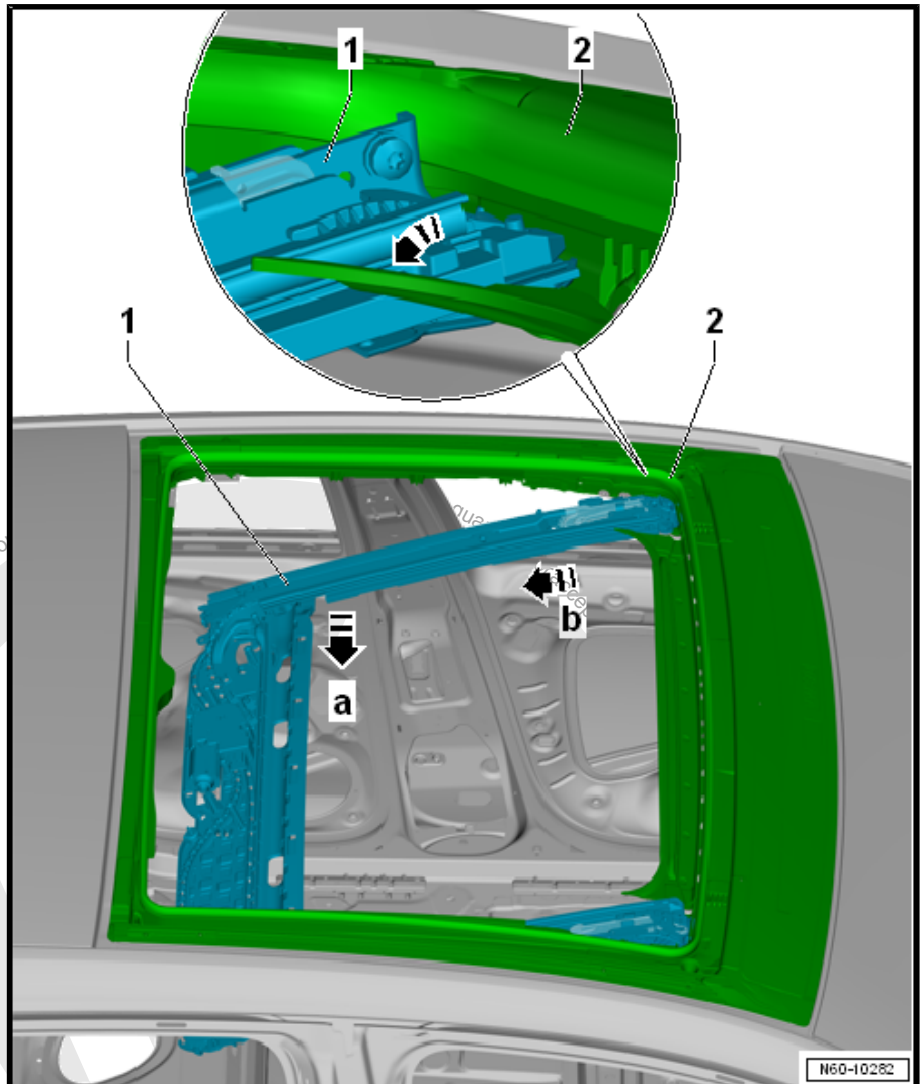
Note

- ♦ The guide rails and the mounting carrier form one unit.
- ♦ The cable and the tilting mechanism are integrated in this component and cannot be replaced individually.





- Remove headliner. Refer to ➔ Body Interior; Rep. Gr. 70 ; Roof Trim Panels; Headliner, Removing and Installing .
- Remove the glass panel. Refer to ➔ ["1.5 Glass Panel, Removing and Installing", page 199](#) .
- Mark the position -4- of the guide rails -1- on the frame -3-.
- Remove the bolts -2-.



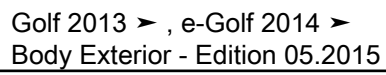
- Lower the rear guide rails -1- -arrow a-.
- Remove the guide rails -1- from the subframe -2- -arrow b-.



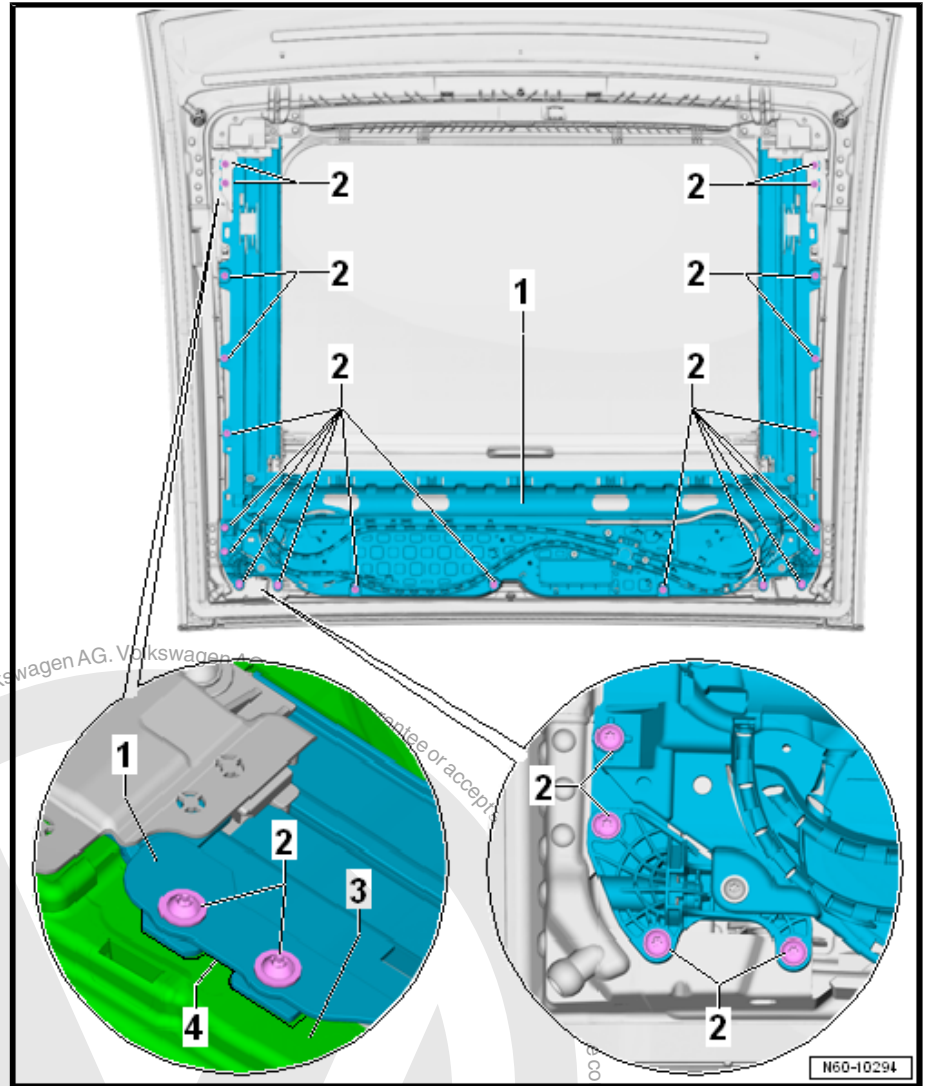
Note

Do not use and bend the guide rails and the mounting carrier as there is no brace installed in the front area.

Installing



- N60-10284



- Install all bolts -2- and tighten lightly.
- Align the guide rails -1- according to the markings -6-.
- Tighten the screws -2-.
- Install in reverse order of removal.

Tightening Specifications

1.8 Sliding Sunroof Front Trim, Removing and Installing

Special tools and workshop equipment required

- ◆ Cartridge Gun - VAG1628-
- ◆ Window Cutter - VAG1561A-
- ◆ Window Cutter - Saw Blade - 63mm - VAG1561/25-
- ◆ Cutting Tool for Bonded Windows - Wire Reel - VAS6452/1-

Materials

- ◆ One-Part Assembly Adhesive Refer to 4). 1 Refer to 5). 2
- ◆ Glass Primer/Paint Primer 4) 1



- ◆ Cleaning Solution 4) 1
- ◆ Applicator 4) 1
- ◆ Adhesive Remover 4) 1
- ◆ Cutting Wire

4) Follow the manufacturer processing instructions supplied in the packaging.

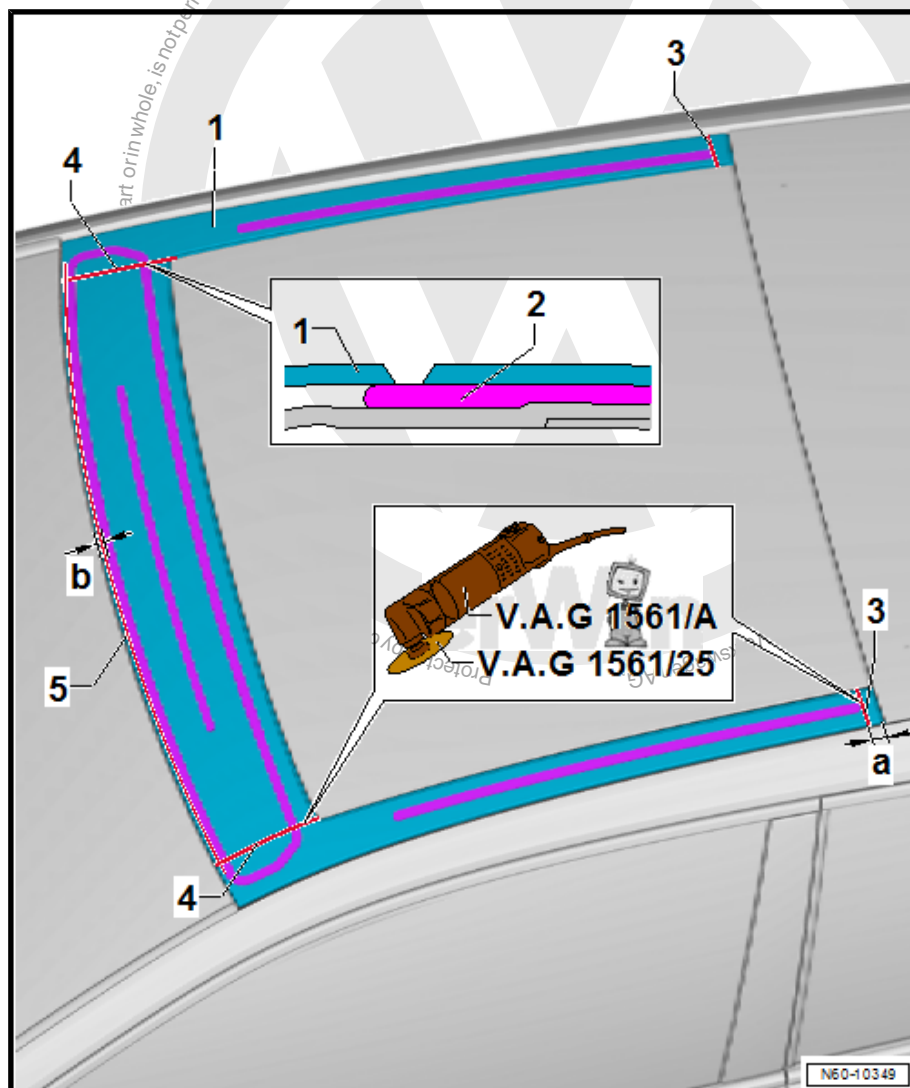
5) Observe the minimum curing time. Refer to ➔ [page 213](#) .

Removing



Note

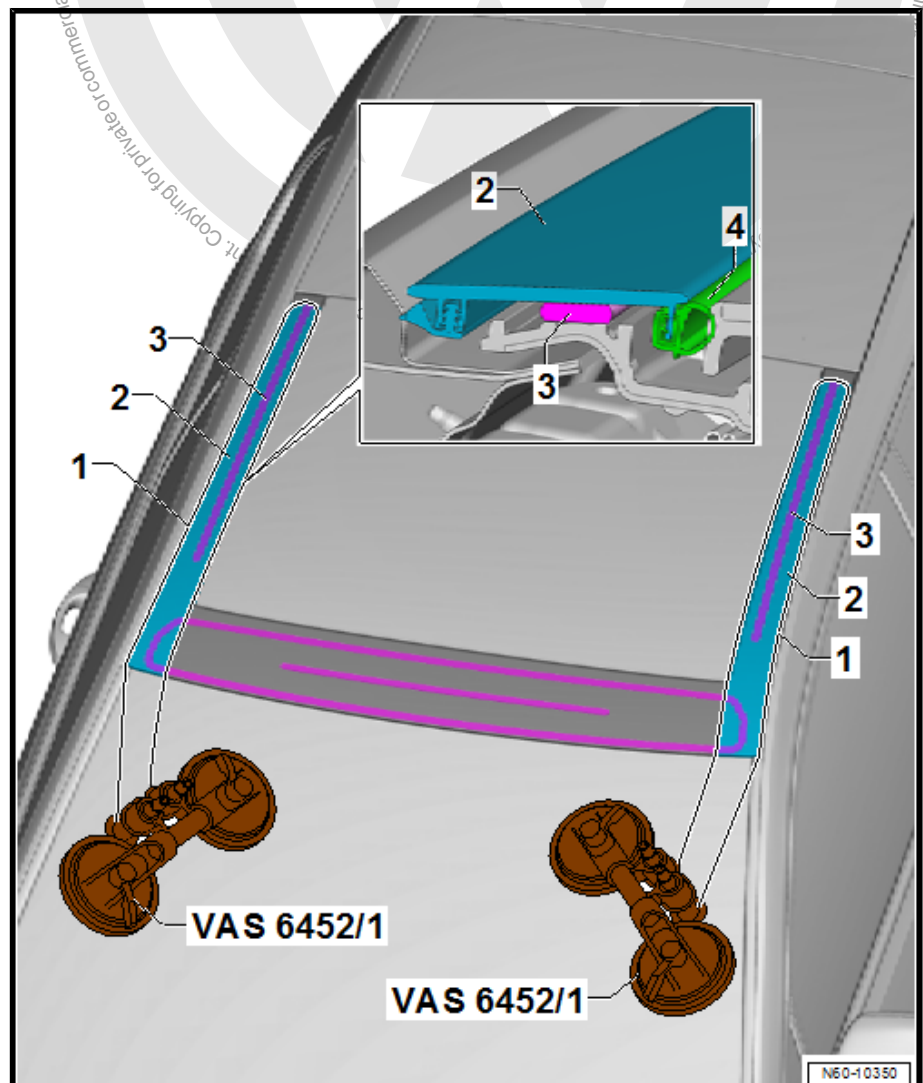
- ◆ *The front trim is destroyed when removed and cannot be re-installed.*
- ◆ *All the surrounding components are to be protected from damage.*
- ◆ *The glass panel is not removed. The installation position of the cover is needed for the height reference when installing the front trim.*



- 

Due to the lack of clearance between the front trim and the frame, do not cut deeper than 5 mm.

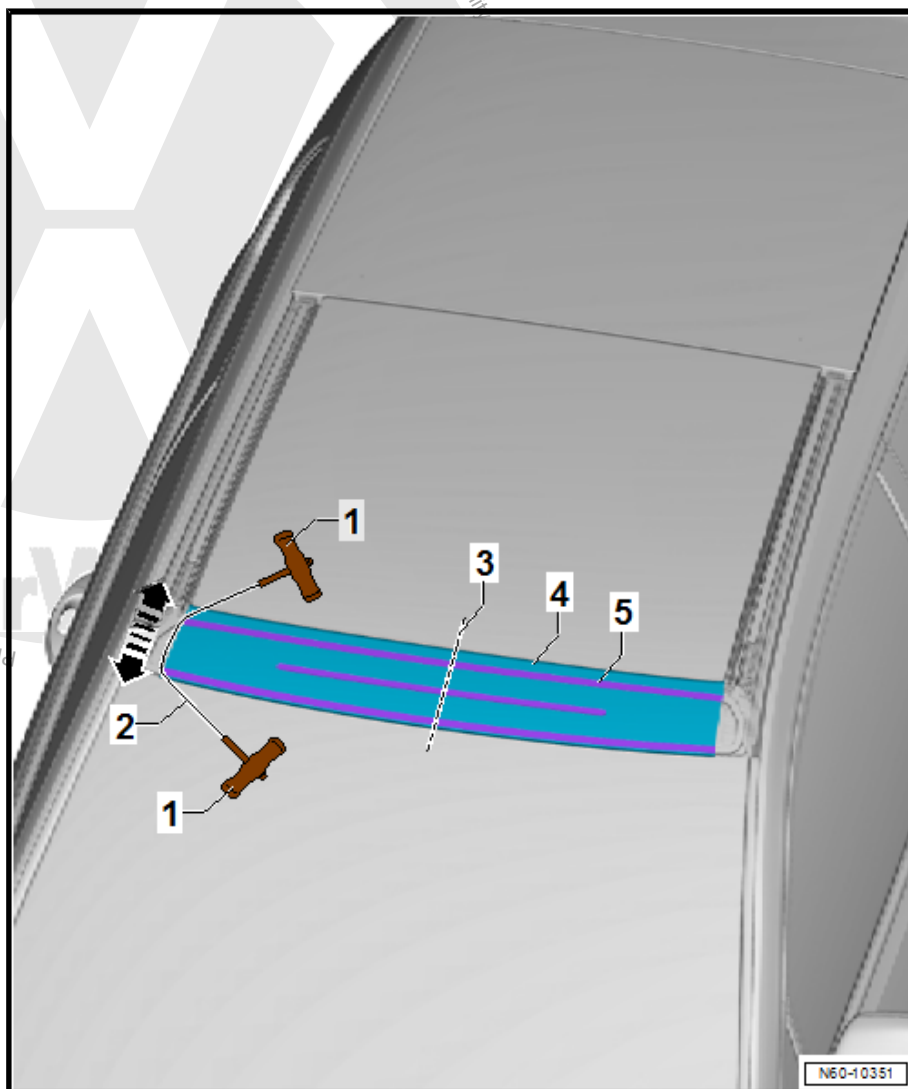
- With the Window Cutter - VAG1561A- and the Window Cutter - Saw Blade - 63mm - VAG1561/25- disconnect at the marks -3 and 5- along the front trim.
- Along the left and right line -4- apply an approximately 5 mm cut to place the cutting wire.
- The adhesive beads for the trim are now accessible by removing the edges on the front trim.





Seal -4- is removed.

- Place the cutting wire -1- on one side all around and secure on the Cutting Tool for Bonded Windows - Wire Reel - VAS6452/1- .
- Cut through the adhesive bead -3- and remove a section of the front trim -2-.
- Reposition the Cutting Tool for Bonded Windows - Wire Reel - VAS6452/1- and do the same on the other side.



- Secure a handle -1- from the Window Removing Kit - VAG1755- on each end of the cord -2-.

A second technician is required for detaching the adhesive bead.



Note

- ♦ *There are three adhesive beads on the front roof crossmember that require more force.*
- ♦ *Work using even sawing motions -arrow-.*
- Cut through the adhesive beads -5- first from one side on the front roof crossmember to the center -3-.



- Cut through the adhesive bead from the other side to the center -3-.
- Remove the front trim -4-.



Note

The exact positions of the adhesive beads are to be transferred from the cut-out front trim to the new front trim.

Installing

Minimum Curing Time



WARNING

There are special requirements for replacing bonded front trim. This includes, for example, that a newly bonded trim piece is safe for vehicle operation and also in case of an accident after a specified minimum curing time.

The vehicle is operationally ready only after the minimum curing time has elapsed.

Observe the minimum curing time.

The minimum curing time for the One-Part Adhesive is three hours.

Minimum curing time means the time from when it is bonded to when the vehicle is put back into use. During this time, the vehicle must be on a level surface at room temperature (at least 15 °C).

Installation Instructions

- Apply adhesive all around at a right angle to the front trim.



WARNING

The front trim must be installed within 10 minutes, otherwise the window adhesive will not adhere properly.

Do not apply the adhesive bead too thickly and do not press the frame too firmly onto the body flange.

- ◆ Place the front trim in the opening, center it, and press it in up to spacer.

Paint Damage, Repairing

If there is paint damage, recreate the paint structure according to guidelines in the "Paint" repair manual.

Adhesive Residue, Cleaning

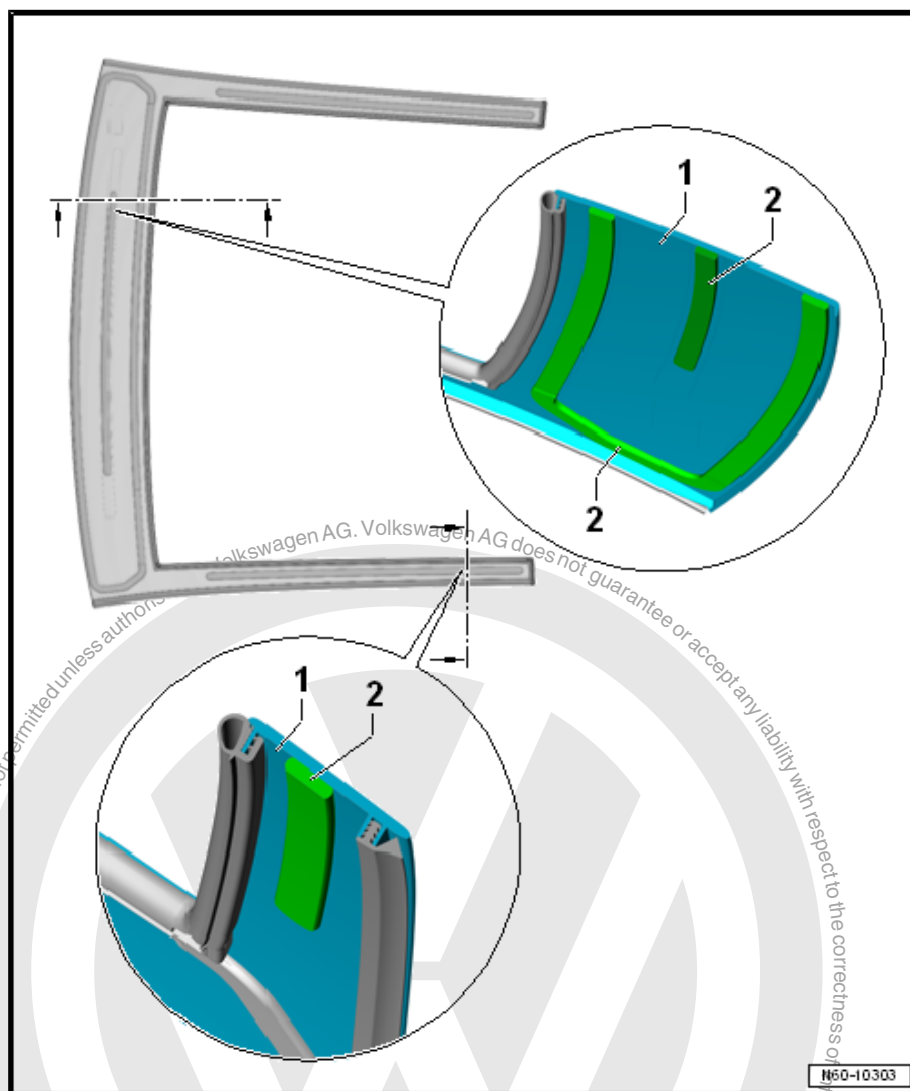
- Adhesive Remover is the recommended cleaning solution. Follow all safety precautions.
- Clean the painted surface with a dry cloth. Remove any remaining dirt using the Adhesive Remover .
- Clean the plastic trim: let the adhesive harden for approximately one hour and then peel it off.



WARNING

Only use the adhesive assigned in the Parts Catalog, because it is adapted for elasticity to the trim.

The minimum curing time for safe vehicle operation is three hours.



- Lightly sand the adhesive surface with fine sandpaper.
- Thoroughly clean around the adhesive surface -2- using the Cleaning Solution .
- Apply the Glass/Paint Primer evenly in a single stroke using the applicator.
- The drying time for the glass/paint primer is 10 minutes.
- Apply the One-Part Adhesive .

Width of the adhesive bead: 8 mm.

Height of the adhesive bead: 12 mm.



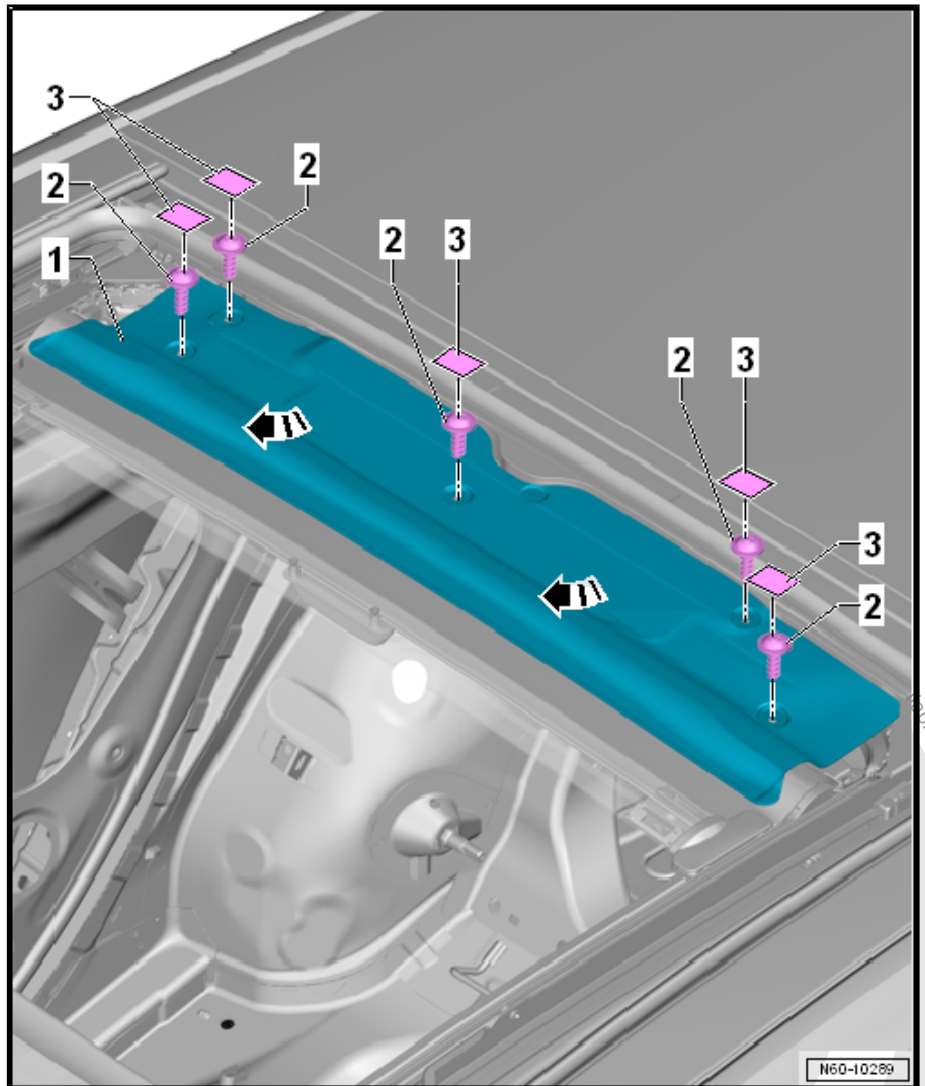
- Insert the trim into the roof opening and center it. Secure with adhesive tape.
- Observe the minimum curing time. Refer to ➤ [page 213](#) .

1.9 Power Sunroof Control Module - J245- , Removing and Installing

Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-

Removing



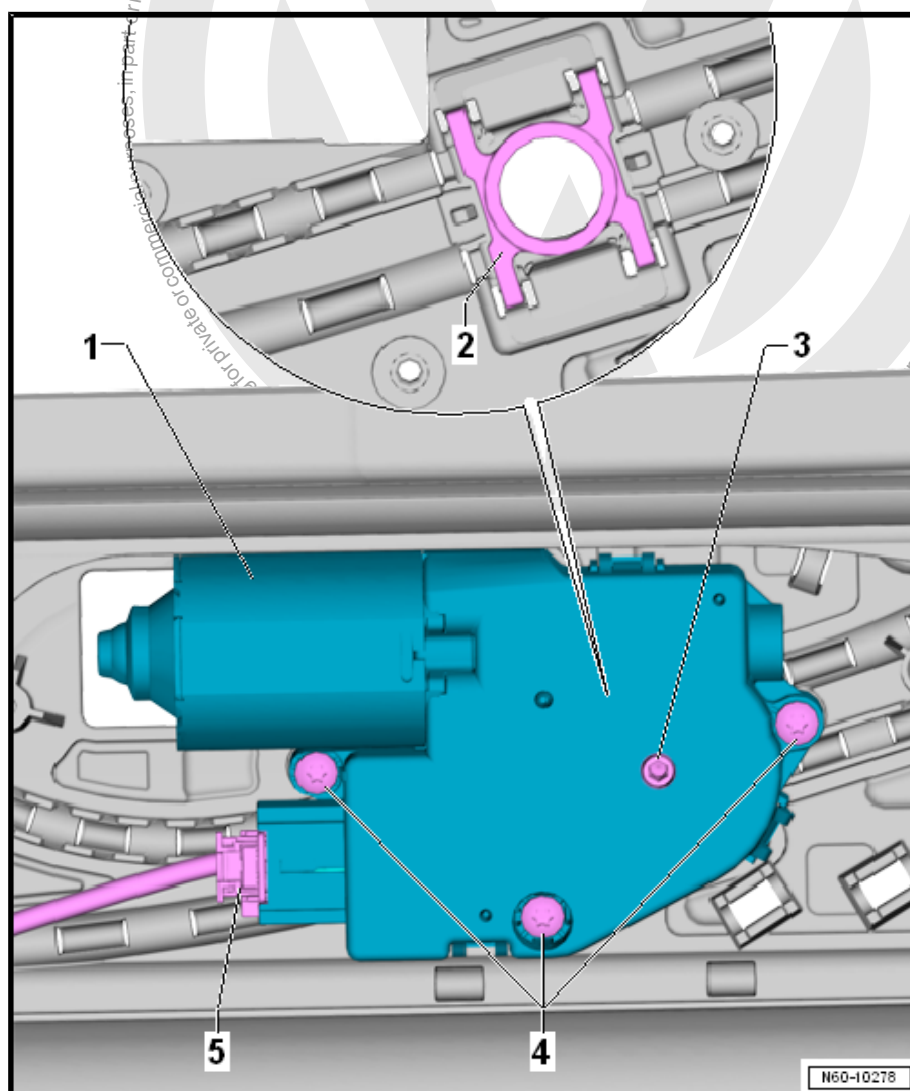
- Remove the glass panel. Refer to ➤ [“1.5 Glass Panel, Removing and Installing”, page 199](#) .
- Remove the glass panel if the drive motor is defective. Refer to ➤ [“1.5.2 Glass Panel, Removing, Defective Drive Motor”, page 203](#) .
- Remove the self-adhesive insulation -3-.
- Remove the bolts -2-.
- Remove the cover upward at an angle -arrows-.



WARNING

Only remove and install the panorama sunroof glass panel drive when the roof is closed (zero position).

Requirements for removing and installing the drive: the engine and the ignition must be off, remove the key and open the door.



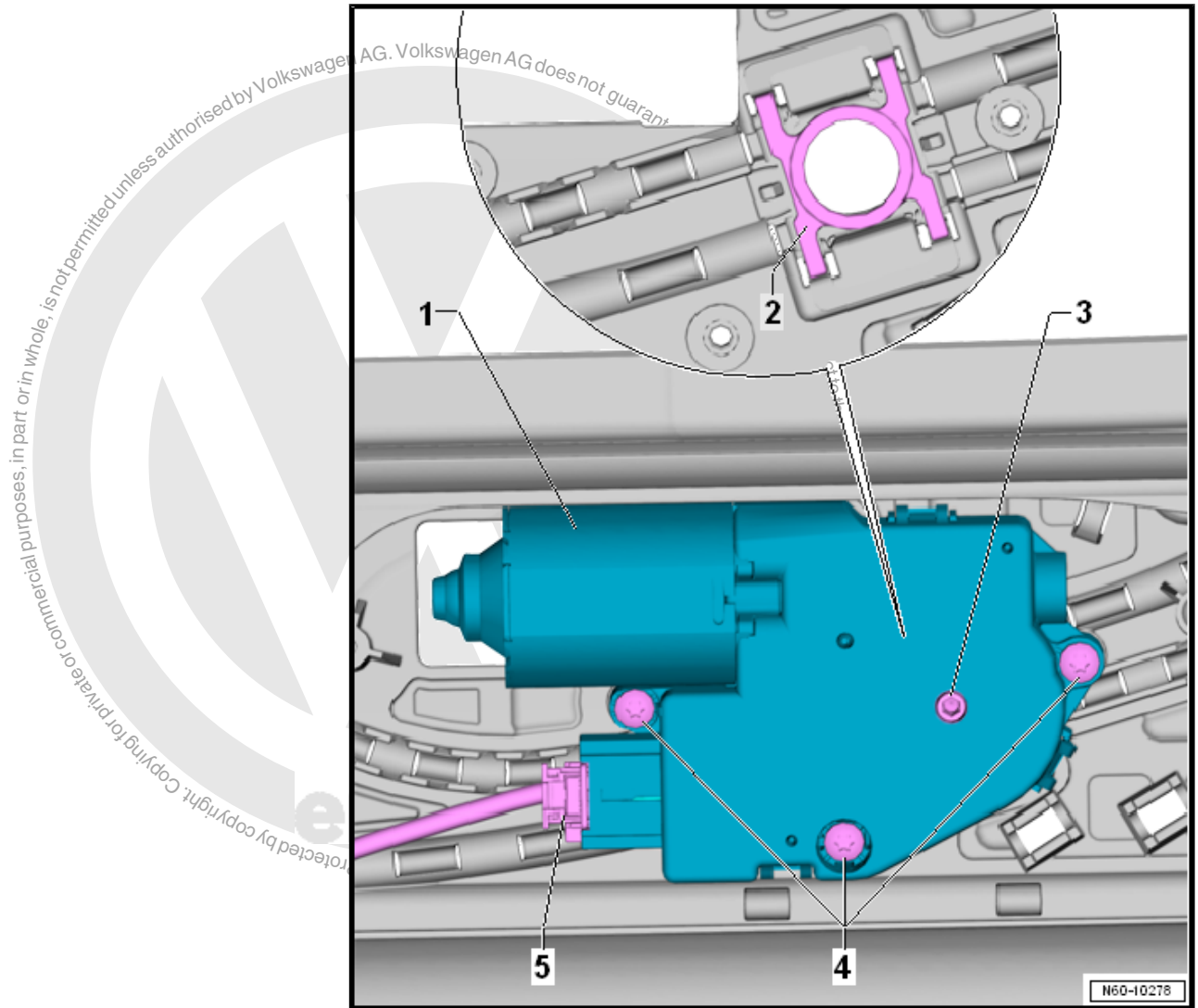
- Turn the engine and ignition off, remove the key and open the door.
- Remove the bolts -4- and remove the Panorama sunroof drive motor -1-.
- Disconnect the connector -5- for the drive.

Installing

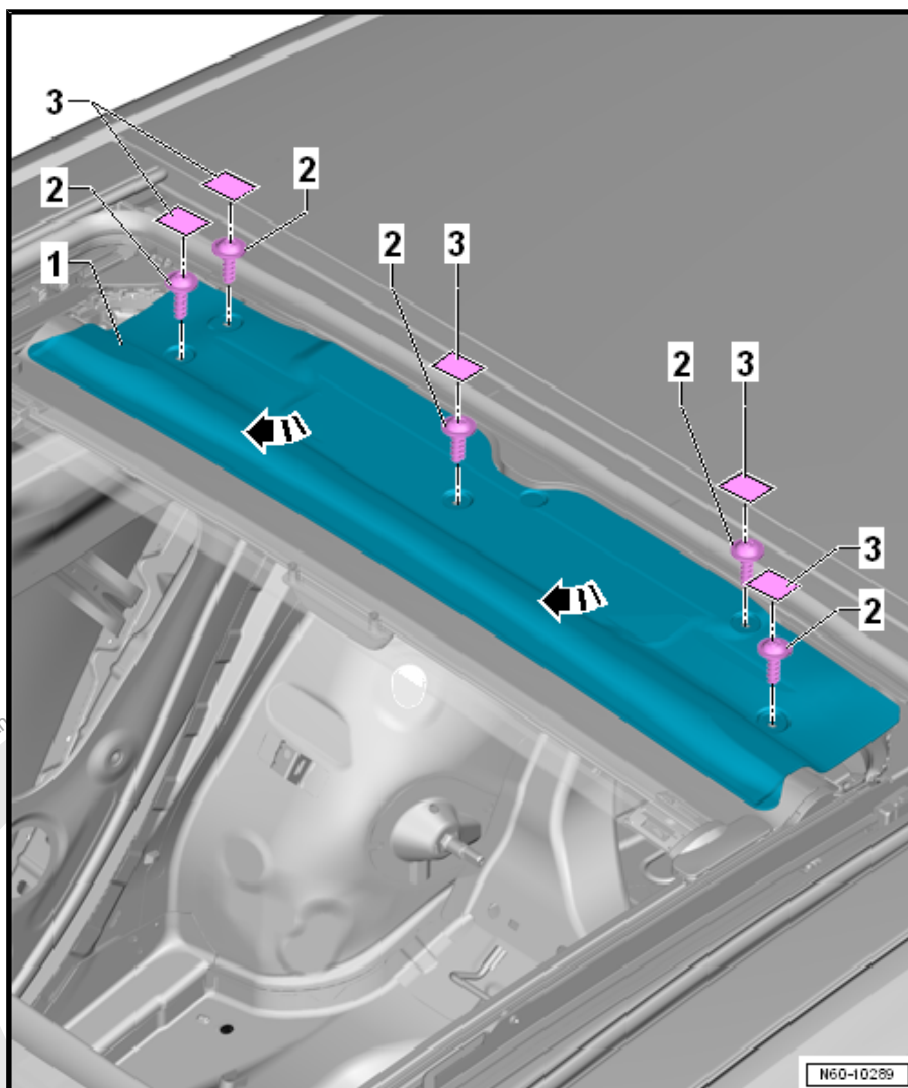


Note

The bolts for the drive motor are micro-encapsulated and must always be replaced.



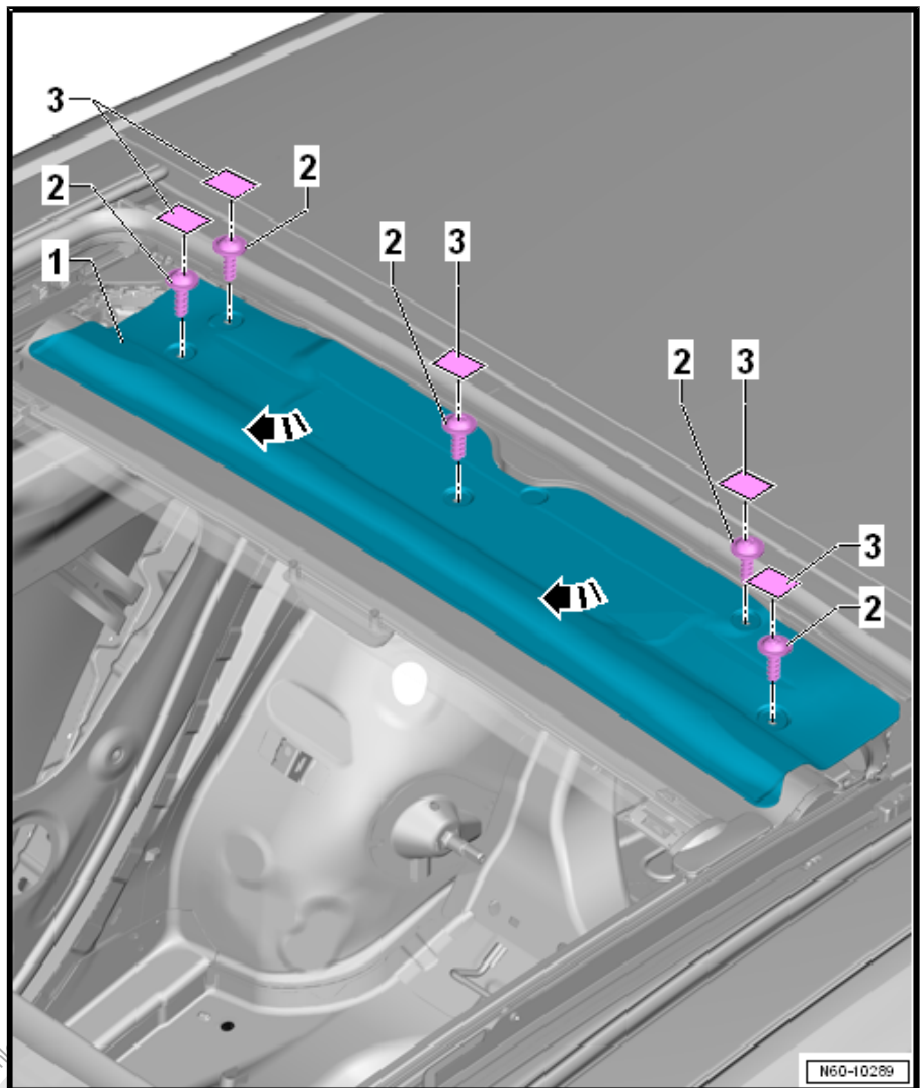
- Connect the connector -5- to the motor -1-.
- Check that the clip is in the correct position -2-.
- Install the motor -1- and tighten the bolts -4-.
- After installation has been performed, key is reinserted into the lock cylinder of the ignition/starter switch.
- Then perform function test.



- Push the cover on the frame.
- Tighten the screws -2-.
- Apply the self-adhesive insulation -3-.

Tightening Specifications

1.10 Sunroof, Closing Manually



Removing

- Remove the glass panel. Refer to
⇒ [“1.5 Glass Panel, Removing and Installing”, page 199](#) .
- Remove the glass panel if the drive motor is defective.
Refer to
⇒ [“1.5.2 Glass Panel, Removing, Defective Drive Motor”, page 203](#) .
- Remove the self-adhesive insulation -3-.
- Remove the bolts -2-.
- Remove the cover upward at an angle -arrows-.

Installing

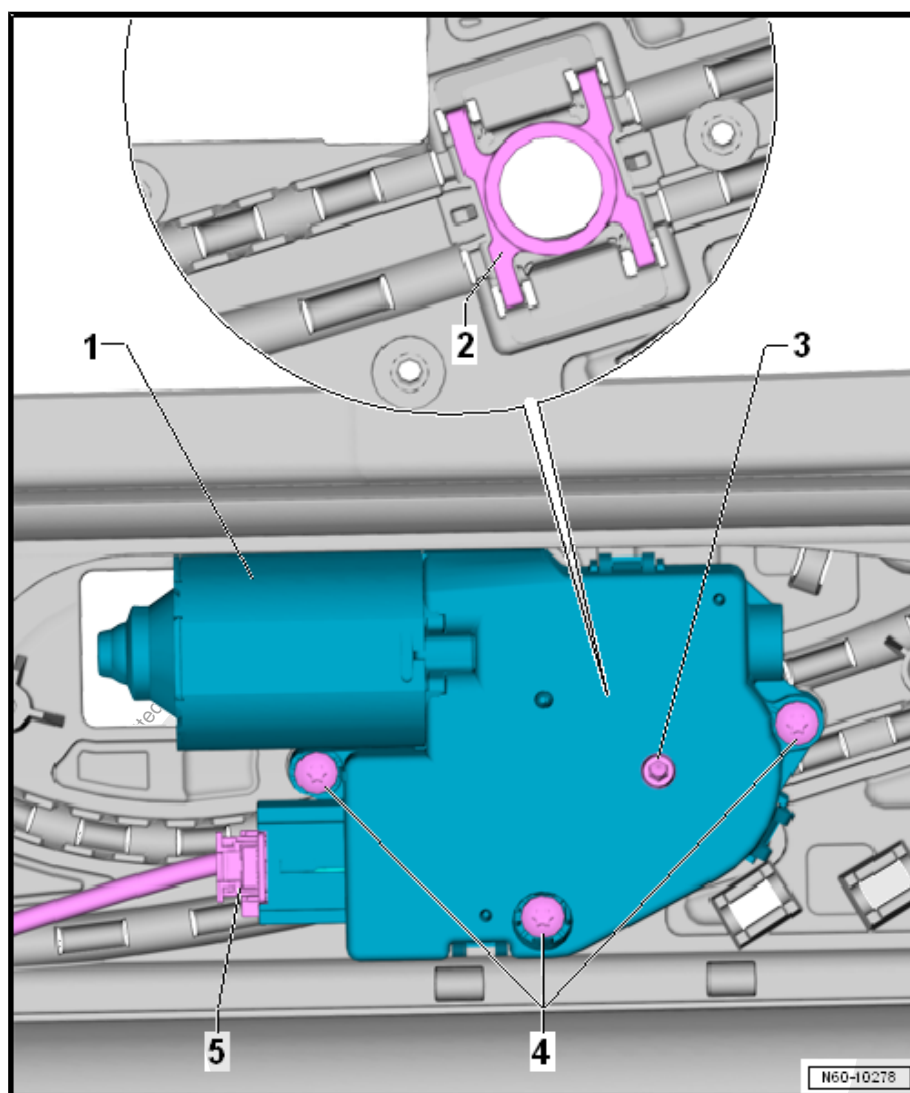
- Push the cover on the frame.
- Tighten the screws -2-.
- Apply the self-adhesive insulation -3-.

Tightening Specifications



Note

- ◆ *If there is a malfunction in the electrical system, the sunroof and glass panel motor can be moved using a hex wrench.*
- ◆ *More force will be needed to turn, the motor since it is not disengaged from the transmission.*



- Guide the hex wrench into the drive motor -1- bolt -3-.
- Close the glass panel by turning the bolt -3-.

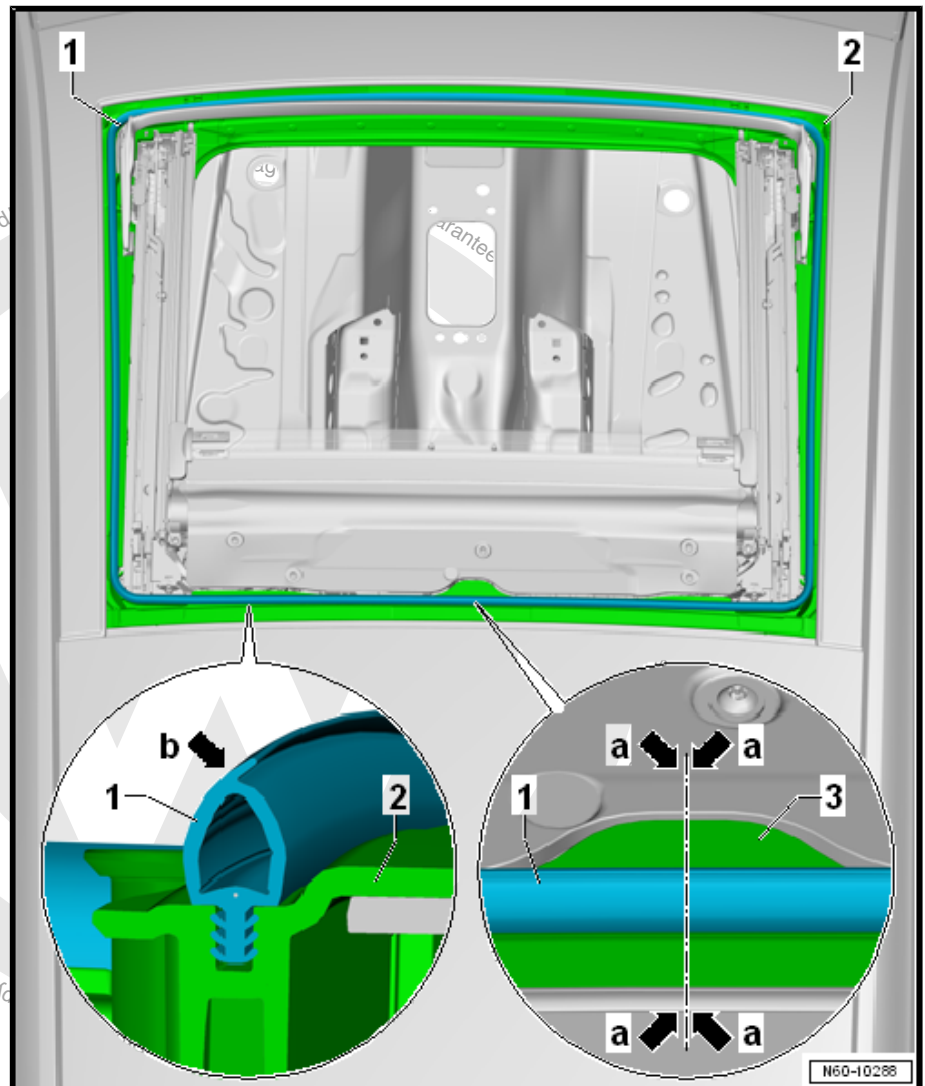


1.11 Sunroof Seals, Removing and Installing

⇒ ["1.11.1 Sunroof Frame Seal, Removing and Installing", page 221](#)

⇒ ["1.11.2 Glass Panel Seal, Removing and Installing", page 222](#)

1.11.1 Sunroof Frame Seal, Removing and Installing



Removing

- Remove the glass panel. Refer to
⇒ ["1.5 Glass Panel, Removing and Installing", page 199](#) .
- Remove the seal -1- from the frame -2-.

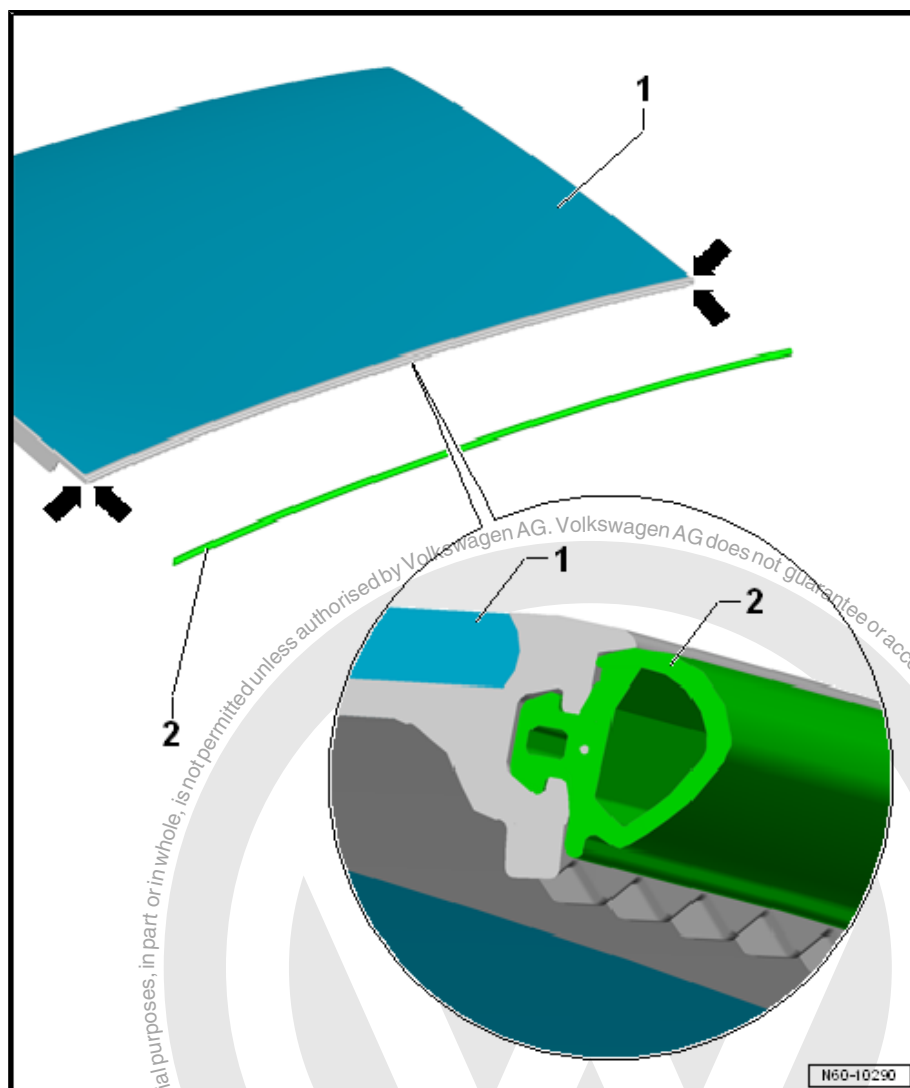
Installing

- Align the inner seal -1- with the vulcanized point to the curve on the frame -3- -a arrows-.
- The sealing lip -arrow b- must be aligned outward.

Push the inner seal -1- evenly in the frame mount -2-.



1.11.2 Glass Panel Seal, Removing and Installing



Removing

- Open the glass panel.
- Remove the seal -2- from the glass panel -1-.

Installing

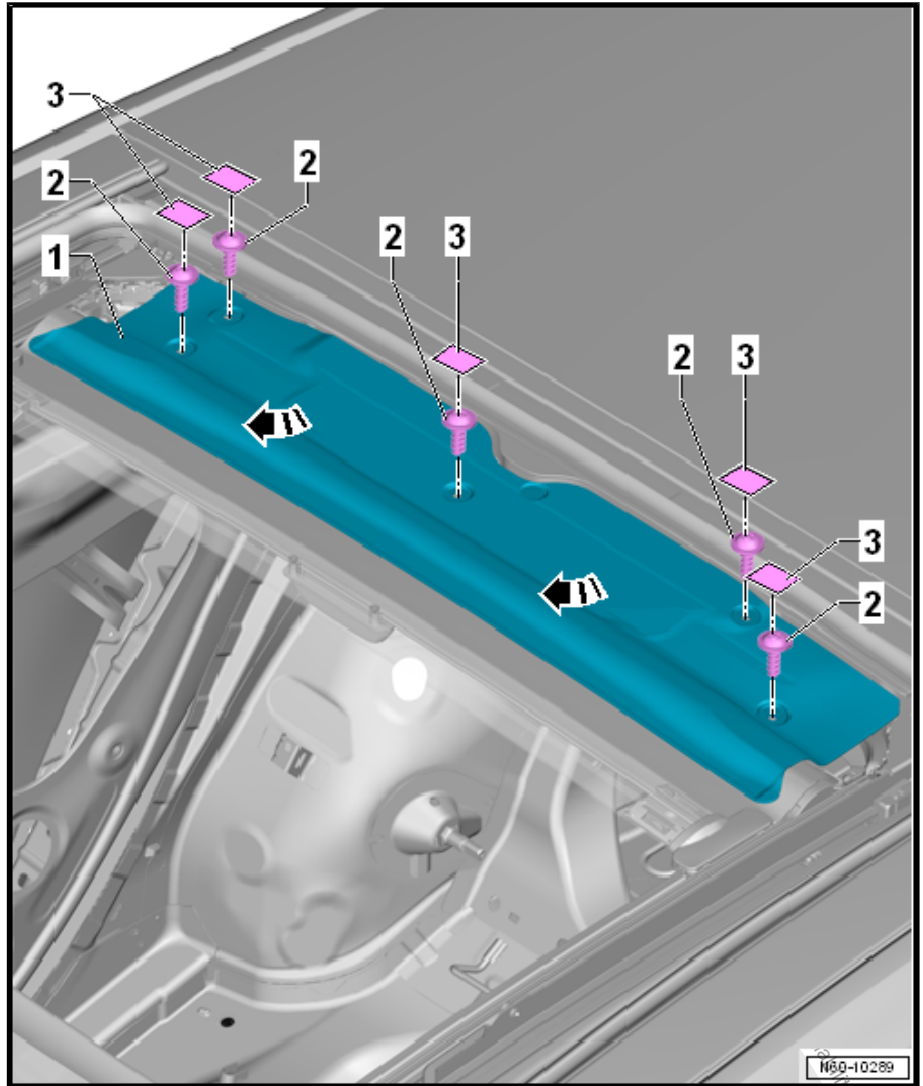
- Align the seal -2- on the outer edge of the glass panel -1- -arrows-.
- Press the seal -2- in the glass panel mount -1-.

1.12 Sunroof Shade, Removing and Installing

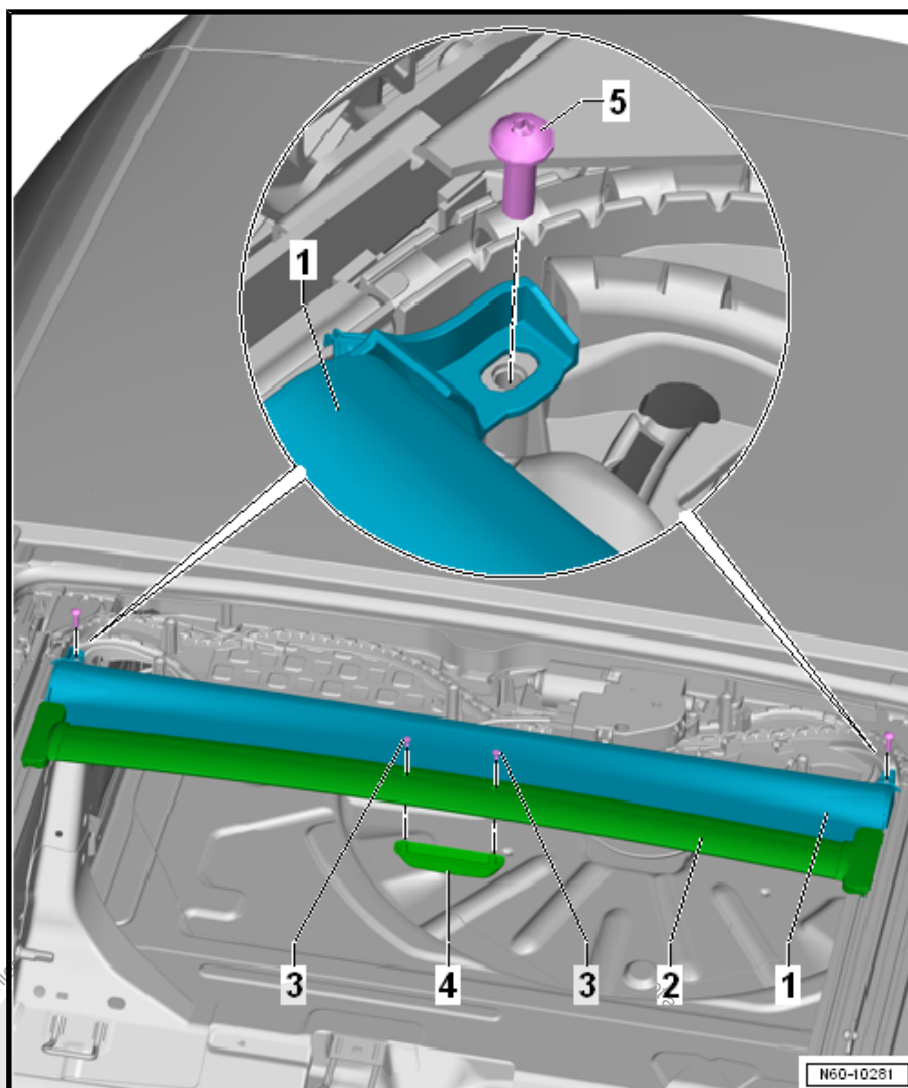
Special tools and workshop equipment required

- ♦ Torque Wrench 1783 - 2-10Nm - VAG1783-

Removing



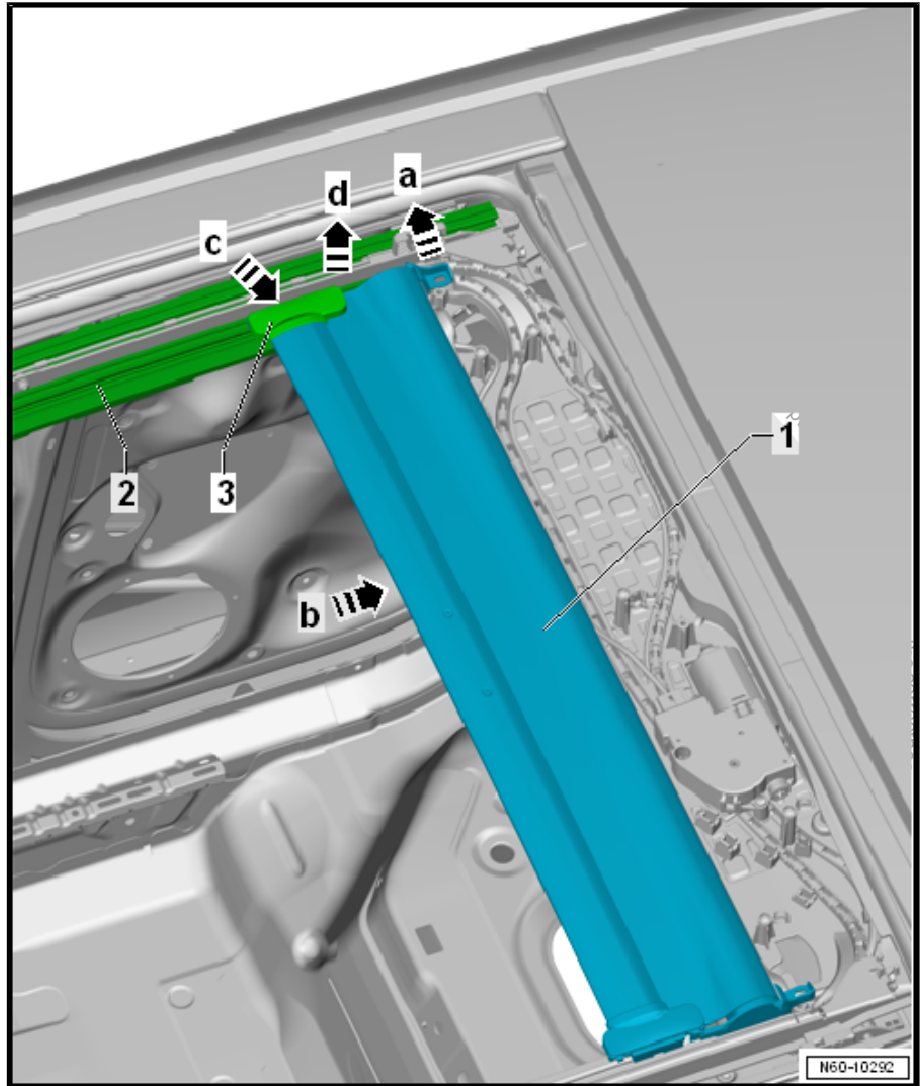
- Remove the glass panel. Refer to
⇒ [“1.5 Glass Panel, Removing and Installing”, page 199](#) .
- Remove the glass panel if the drive motor is defective. Refer to
⇒ [“1.5.2 Glass Panel, Removing, Defective Drive Motor”, page 203](#) .
- Remove the self-adhesive insulation -3-.
- Remove the screws -2-.
- Remove the cover upward at an angle -arrows-.



- Remove the glass panel. Refer to
⇒ "1.5 Glass Panel, Removing and Installing", page 199.
- Remove the screws -3- and then remove the handle -4-.
- Remove the screws -5-.

Note

- ◆ If the sun shade is reused, make sure that the steel bands are not bent.
- ◆ If a steel band is bent, then a new sun shade must be installed.



- Lift the sun shade -1- at the rear on the left and right sides -arrow a- and push it evenly rearward -arrow b-, then pull it out of the guide rails -3-.
- Push the slider -2- into the bow -arrow c- and remove it from the guide -arrow d-.
- Remove the sun shade -1- from the frame.

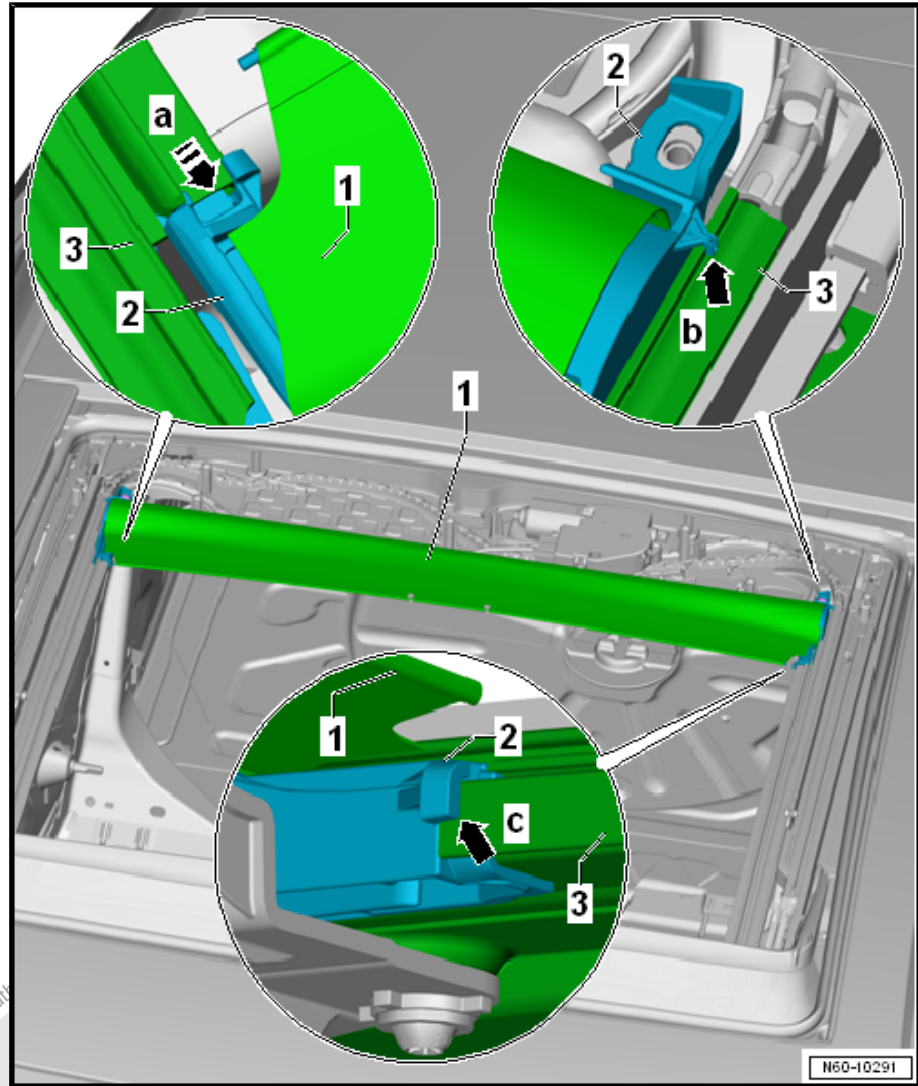
When it is necessary for further work, the tension bow can be removed from the sun shade. Refer to ➔ [page 229](#) .

Installing

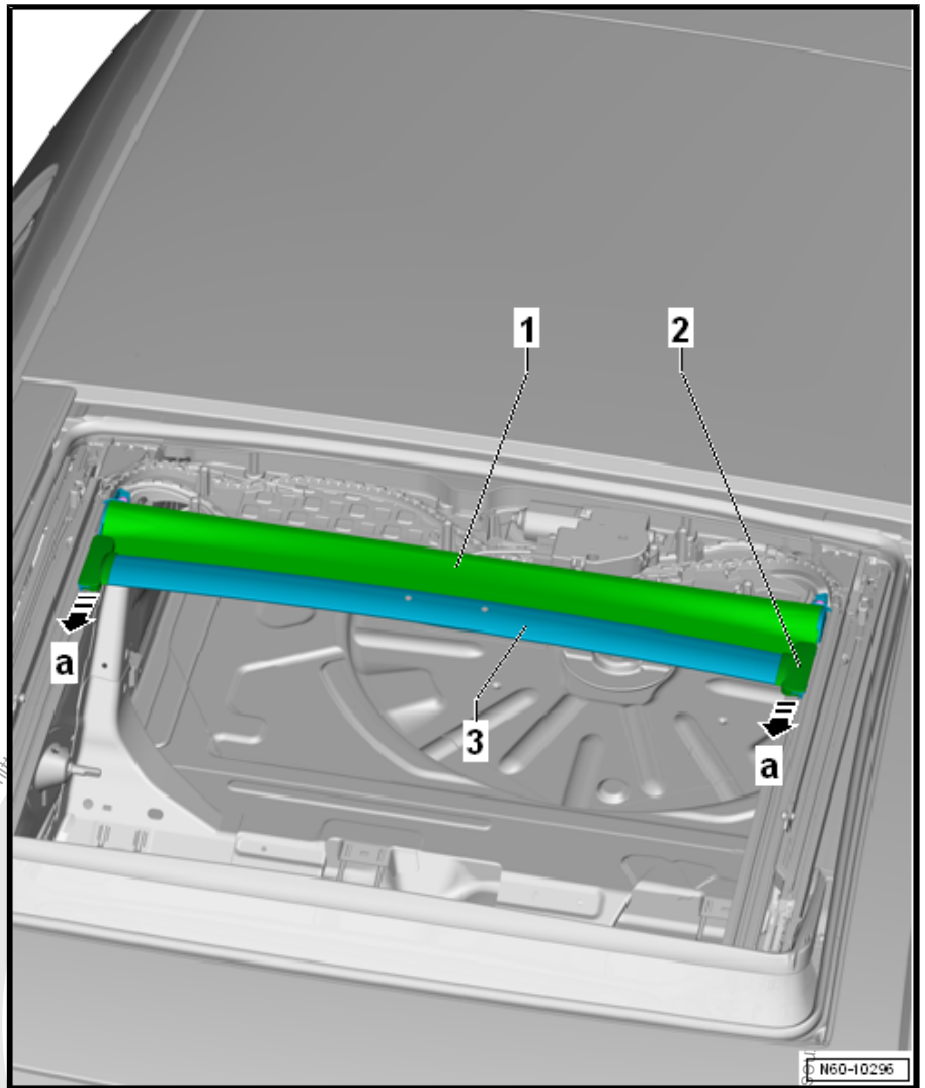


Note

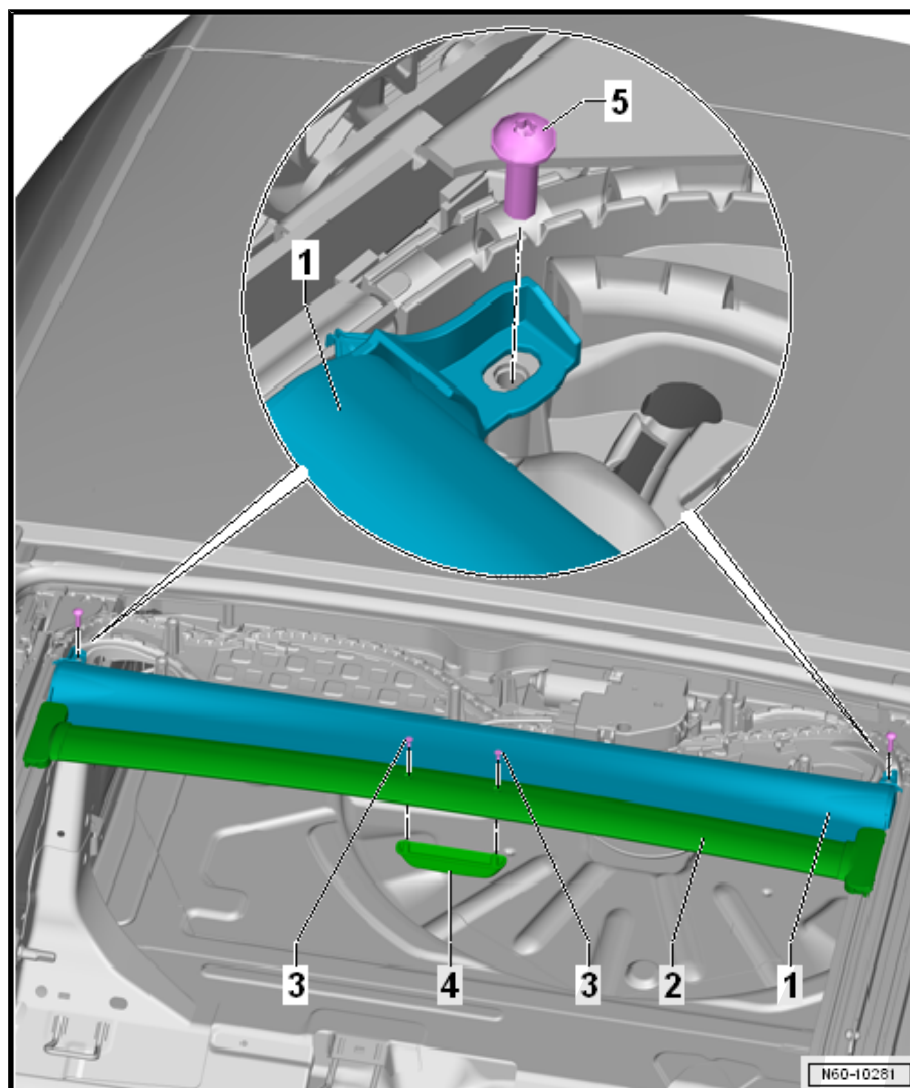
- ◆ When installing the sun shade, make sure that the steel bands are not bent.
- ◆ If a steel band is bent, then a new sun shade must be installed.



- Install the right and left yoke -2- into the guide rails -3- -arrow a-.
- Make sure the upper -arrow b- and lower -arrow c- yokes are positioned correctly on the guide rail.

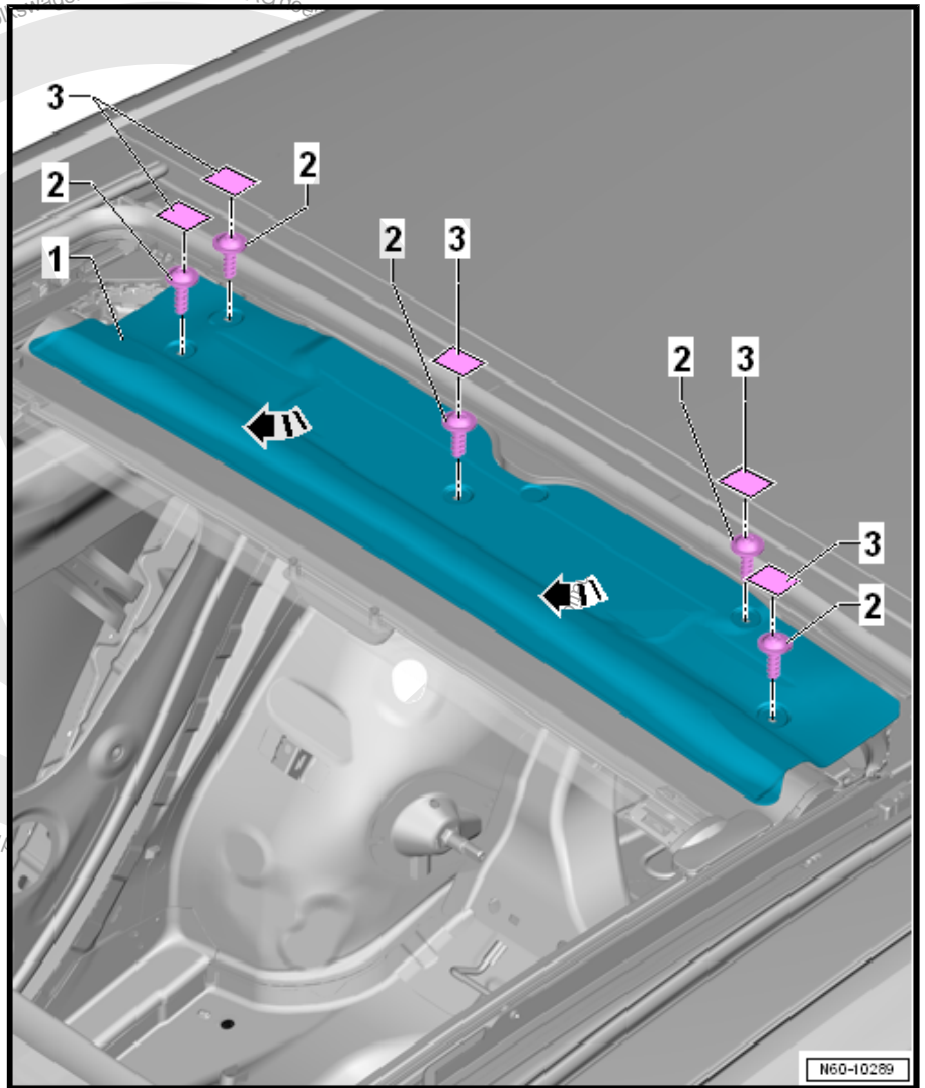


- Push the slider -2- in the guides -8- -a arrows-.
- Make sure the slider is positioned correctly in the guide rails.



- Tighten the screws -5-.
- Install the handle -4- and tighten the screws -3-.

Tightening Specifications

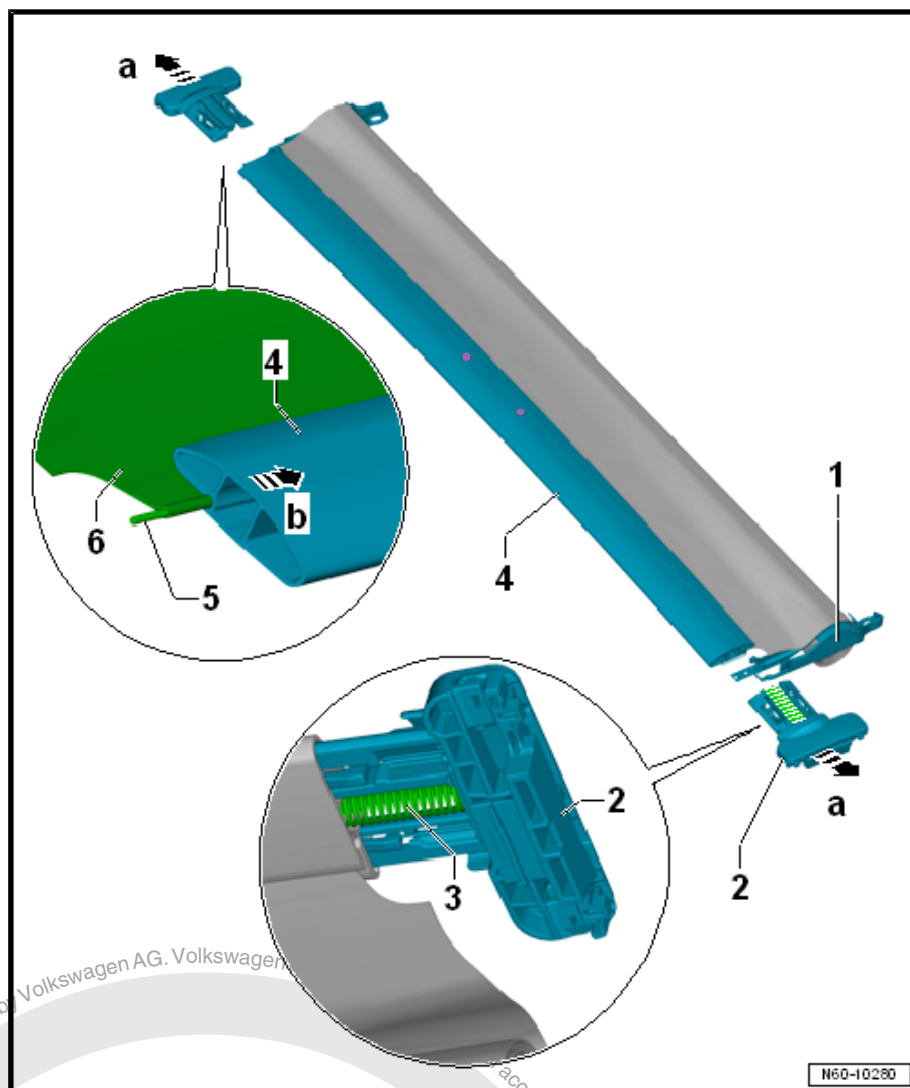


- Push the cover on the frame.
- Tighten the screws -2-.
- Apply the self-adhesive insulation -3-.

Tightening Specifications

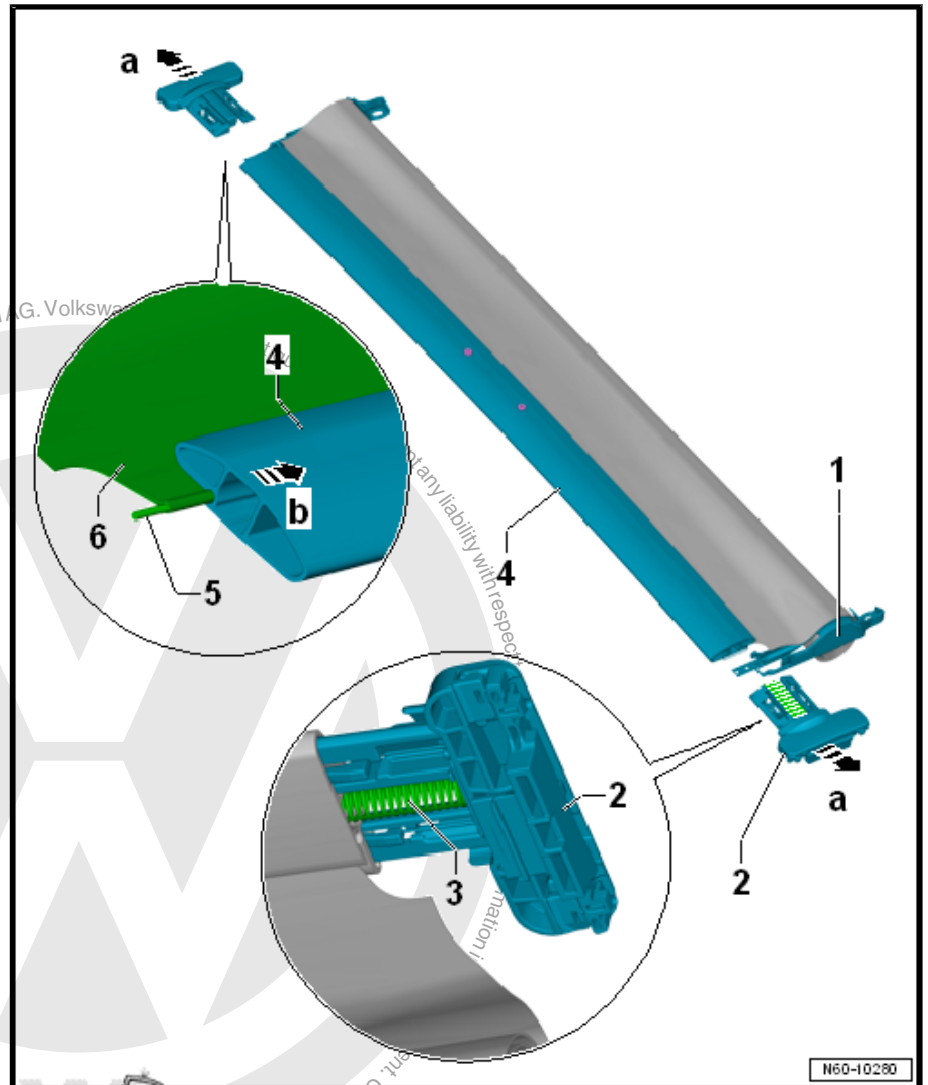
Tension Bow, Removing and Installing

Removing



- Remove the glass panel. Refer to
⇒ ["1.5 Glass Panel, Removing and Installing", page 199](#).
- Remove the sunroof shade. Refer to
⇒ ["1.12 Sunroof Shade, Removing and Installing", page 222](#).
- Remove the left and right slider -2- from the tension bow -4-
-a arrows-.
- Remove the tension bow from the sunroof shade fabric -7-
-arrow b-.

Installing



- Install the tension wire -5- in the sun shade material -6-.
- Slide the tension bow -4- onto the sun shade material.
- Push the slider -2- with the tension spring -3- into the tension bow.

Install in reverse order of removal.

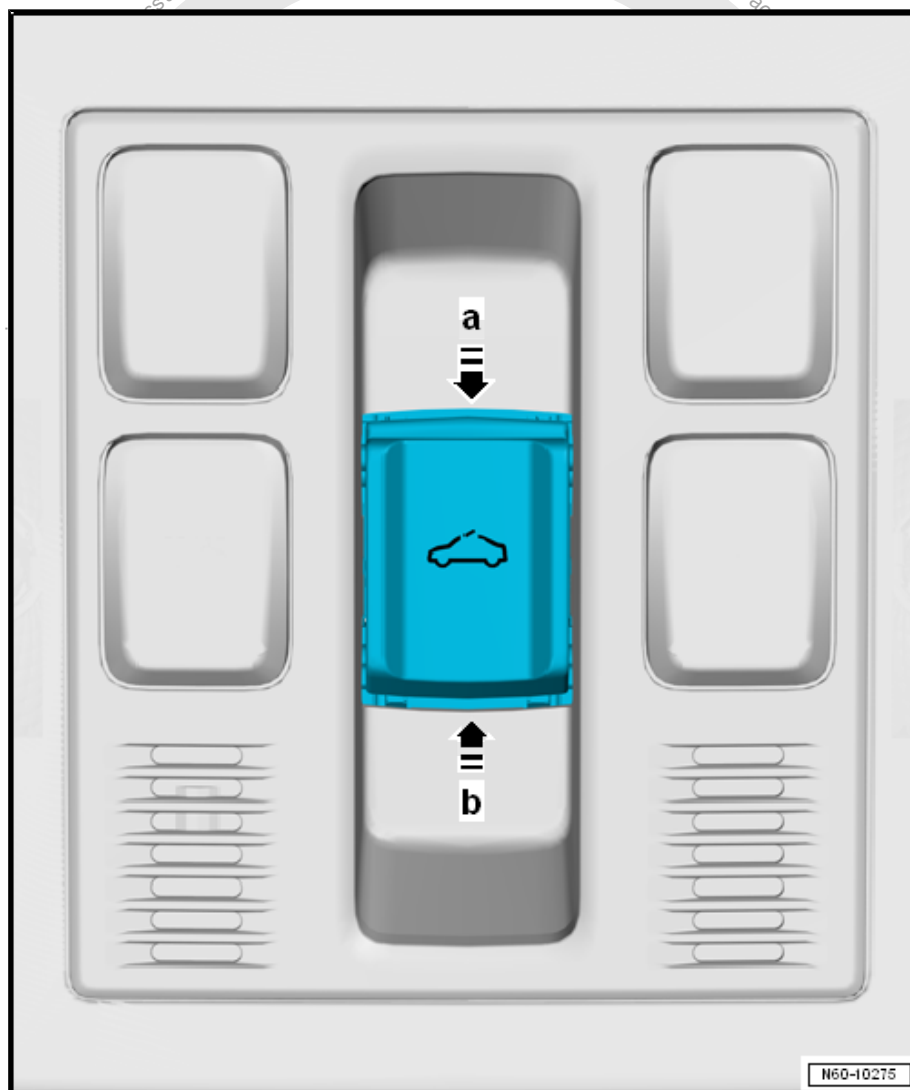


1.13 Power Sunroof Control Module -J245- , Programming



Note

- ◆ After the glass panel, a motor, or the tilting mechanism is changed, perform the adaptation.
- ◆ Pinch protection is switched off when performing an adaptation.



Adaptation sunroof motor

The ignition is switched on.

- Pull the button toward the rear -arrow a- and hold in this position during the entire adaptation procedure (approximately 20 seconds).
- During the adaptation, the glass sunroof will first close and then retract approximately 200 mm.
- After the cover closes again, the adaptation process is complete and the button can be released.



2 Water Drain Hoses

⇒ [“2.1 Overview - Water Drain Hoses”, page 233](#)

⇒ [“2.2 Water Drain Hoses, Cleaning”, page 233](#)

⇒ [“2.3 Water Drain Hoses, Removing and Installing”, page 235](#)

2.1 Overview - Water Drain Hoses

1 - Rear Water Drain Hose

- ☐ Left and right
- ☐ Cleaning. Refer to
⇒ [“2.2 Water Drain Hoses, Cleaning”, page 233](#) .
- ☐ Removing and installing. Refer to
⇒ [“2.3 Water Drain Hoses, Removing and Installing”, page 235](#) .

2 - Front Water Drain Hose

- ☐ Left and right
- ☐ Cleaning. Refer to
⇒ [“2.2 Water Drain Hoses, Cleaning”, page 233](#) .
- ☐ Removing and installing. Refer to
⇒ [“2.3 Water Drain Hoses, Removing and Installing”, page 235](#) .

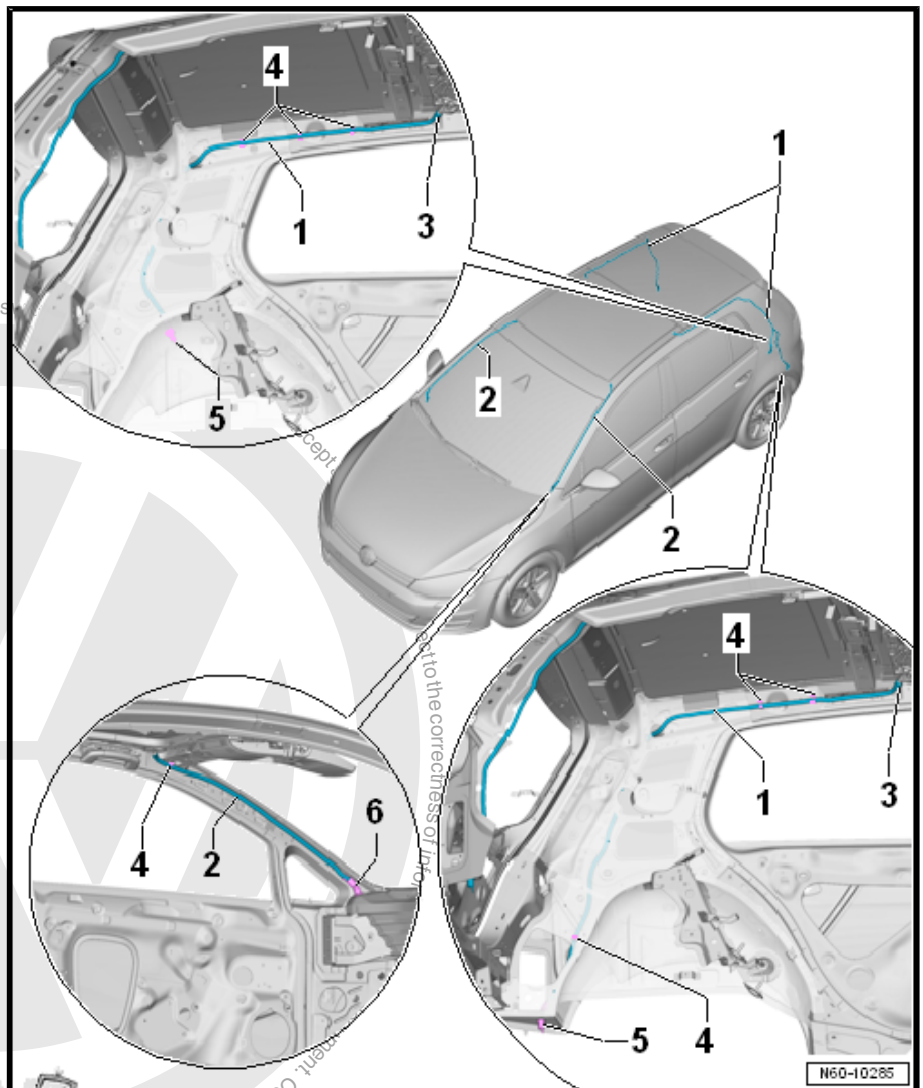
3 - Connection

- ☐ Quantity 4, component of the frame

4 - Clip

5 - Rear Drain Grommet

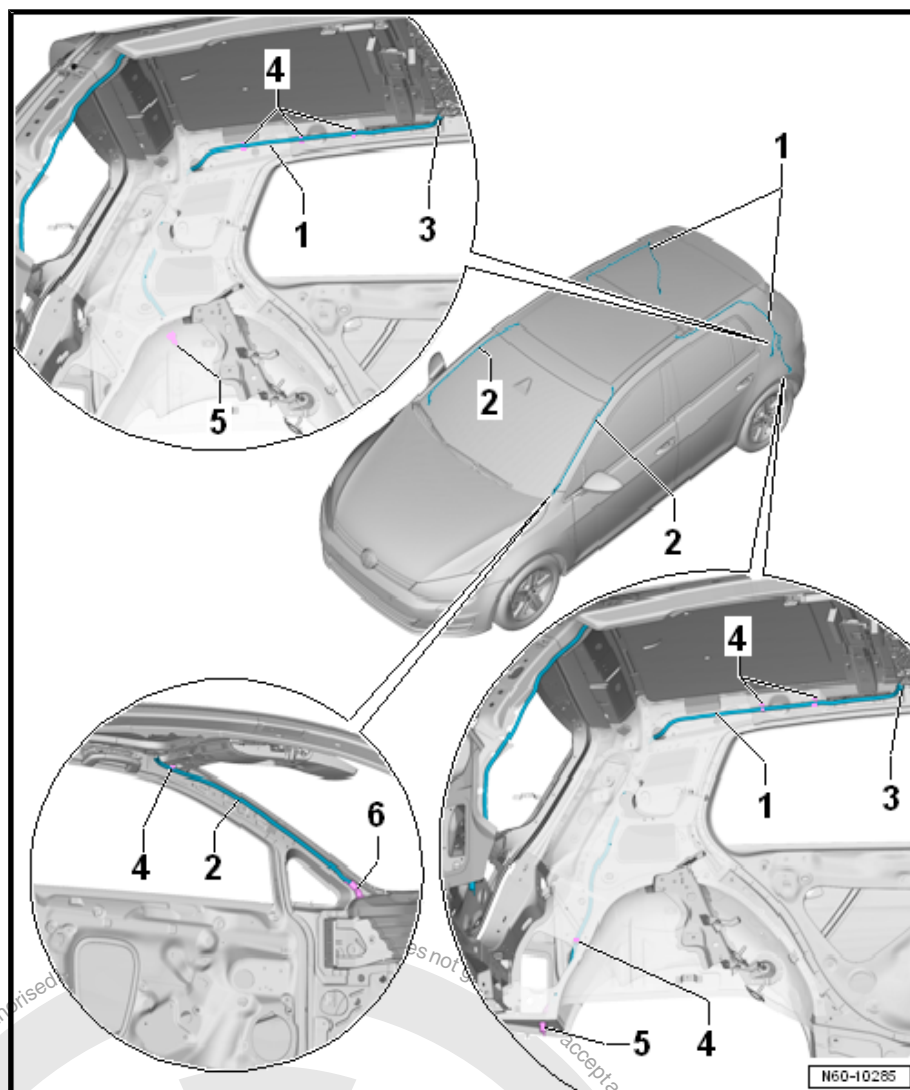
6 - Front Drain Grommet



2.2 Water Drain Hoses, Cleaning

Special tools and workshop equipment required

- ◆ Drain Snake - VAS6620-



Front Water Drain Hose

The front water drain hoses -2- run into the A-pillars and end in the plenum chamber.

- Clean starting from the rear drain grommet -6- using the Drain Snake - VAS6620- .

Rear Water Drain Hose

The rear water drain hoses -1- run through the C-pillars and end in the rear outer floor panel.



Note

For vehicles for the "USA and Canada market" the left water drain hose ends at the rear of the left wheel housing.

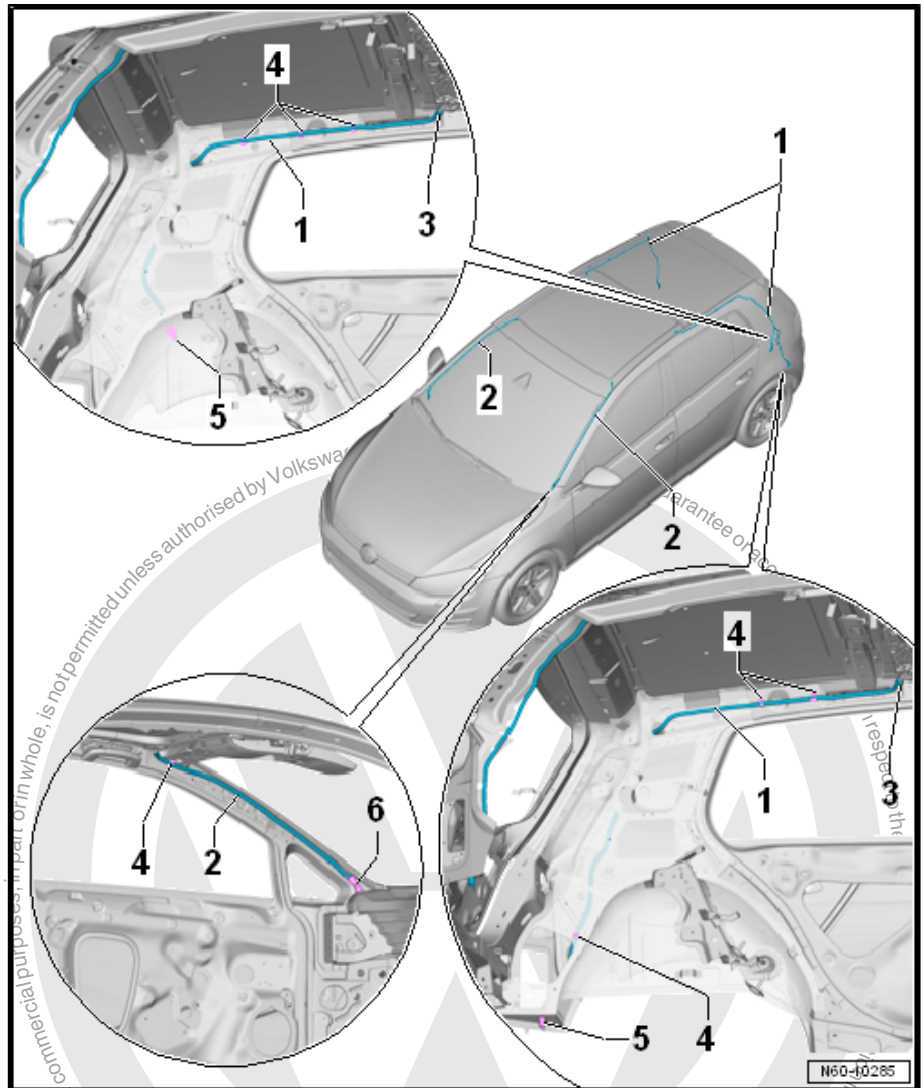
- Remove the rear bumper cover of the corresponding models.
Refer to
⇒ ["2.5 Bumper Cover, Removing and Installing", page 263](#) .
- For all vehicles clean starting from the rear drain grommet -5- using the Drain Snake - VAS6620- .



2.3 Water Drain Hoses, Removing and Installing



For vehicles for the "USA and Canada" market the left water drain hose ends at the rear of the left wheel housing.



Remove the Front Water Drain Hose

- Remove the A-pillar trim. Refer to ➤ Body Interior; Rep. Gr. 70 ; Passenger Compartment Trim; A-Pillar Trim Panel, Removing and Installing .
- Remove headliner. Refer to ➤ Body Interior; Rep. Gr. 70 ; Roof Trim Panels; Headliner, Removing and Installing .
- Pull the front water drain hose -2- from the clips -4- and the drain grommet -6-.

Remove the Rear Water Drain Hose

- Remove the C-pillar trim panel. Refer to ➤ Body Interior; Rep. Gr. 70 ; Passenger Compartment Trim; C-Pillar Trim Panel, Removing and Installing .



- Remove headliner. Refer to ⇒ Body Interior; Rep. Gr. 70 ;
Roof Trim Panels; Headliner, Removing and Installing .
- Pull the rear water drain hose -1- from the clips -4- and the
drain grommet -5-.

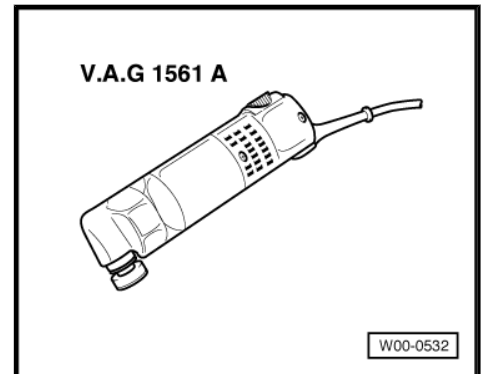




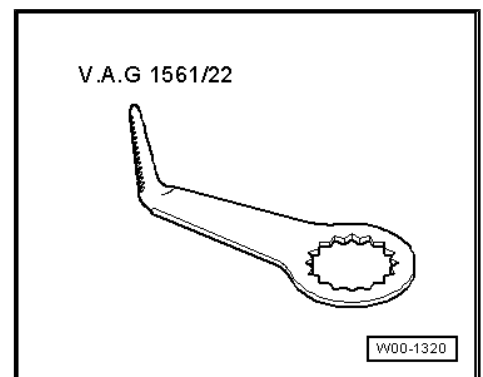
3 Special Tools

Special tools and workshop equipment required

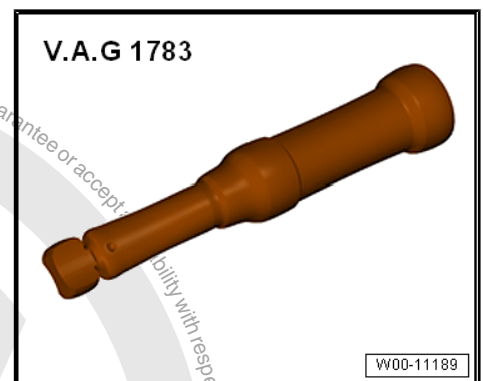
- ◆ Window Cutter - VAG1561A-



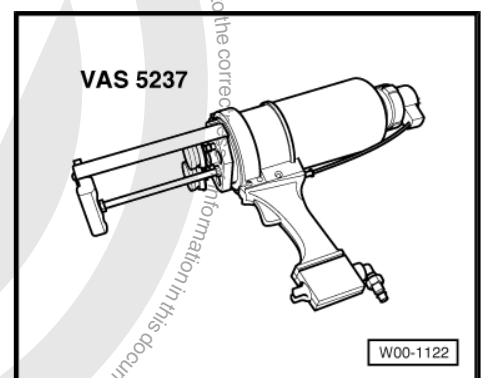
- ◆ Blade, L-shaped, 19 mm - VAG1561/21-



- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-

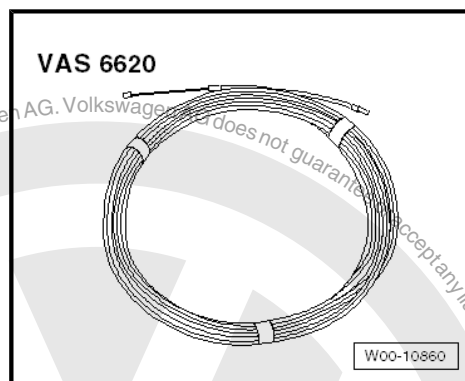


- ◆ Double Cartridge Gun - VAS5237-





◆ Drain Snake - VAS6620-





63 – Bumpers

1 Front Bumper

- ⇒ [“1.1 Overview - Bumper Cover”, page 239](#)
- ⇒ [“1.2 Overview - Attachments”, page 240](#)
- ⇒ [“1.3 Overview - Impact Absorber”, page 248](#)
- ⇒ [“1.4 Bumper Cover, Removing and Installing”, page 248](#)
- ⇒ [“1.5 Bumper Cover, Servicing”, page 251](#)
- ⇒ [“1.6 Parking Aid Mount, Installing”, page 251](#)

1.1 Overview - Bumper Cover



Note

The bumper cover liner may differ slightly depending on the model.

1 - Bumper Cover

- ☐ PP/EPDM material
- ☐ Removing and installing. Refer to
⇒ [“1.4 Bumper Cover, Removing and Installing”, page 248](#) .

2 - Bolt

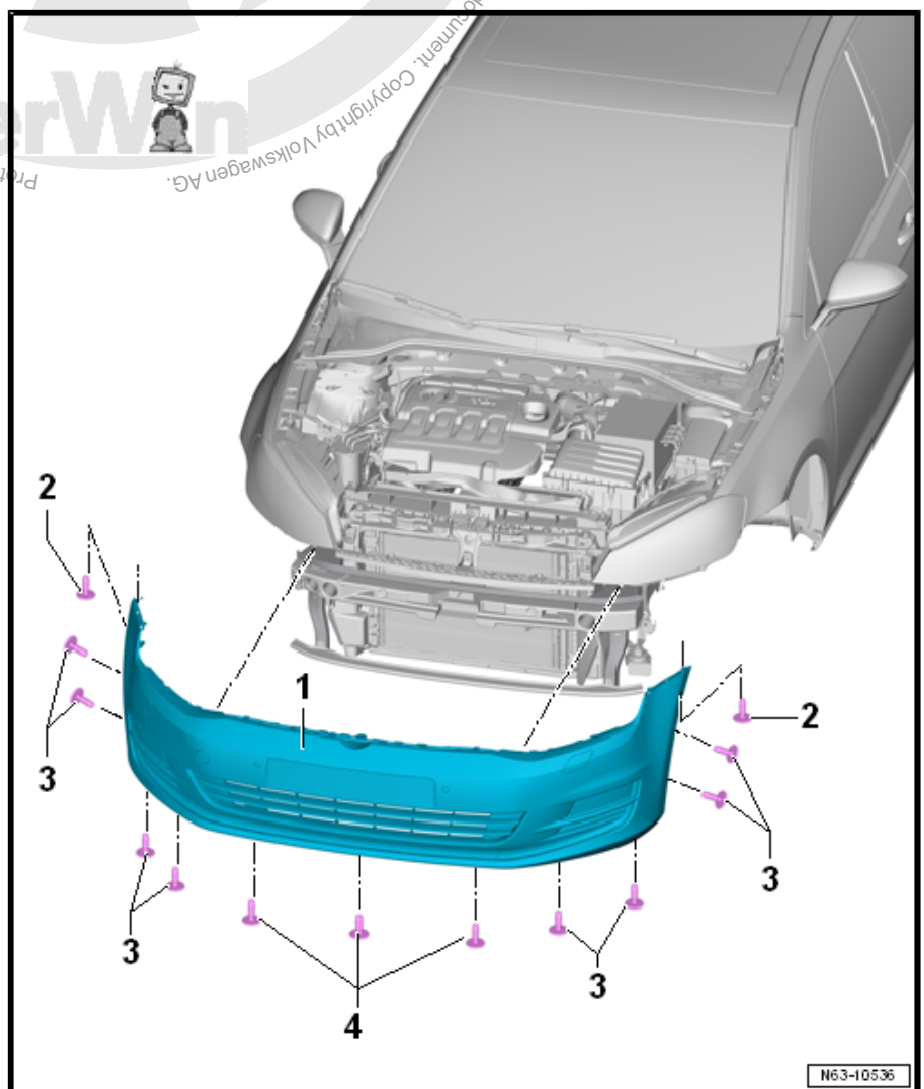
- ☐ 2.0 Nm
- ☐ Left and right
- ☐ Pointing upward

3 - Bolt

- ☐ 2.0 Nm
- ☐ 5 on each side
- ☐ Attached to the wheel housing liner

4 - Bolt

- ☐ 2.0 Nm
- ☐ Quantity: 3
- ☐ Attached to the lock carrier





1.2 Overview - Attachments

⇒ ["1.2.1 Overview - Attachments", page 240](#)

⇒ ["1.2.2 Overview - Attachments, GTI/GTD", page 242](#)

⇒ ["1.2.3 Overview - Attachments, e-Golf and GTE ", page 244](#)

⇒ ["1.2.4 Overview - Attachments, R-Line ", page 245](#)

⇒ ["1.2.5 Overview - Attachments, R ", page 246](#)

1.2.1 Overview - Attachments



Note

Depending on model version, slight deviations for attachments must be considered.

1 - Bumper Cover

- ☐ PP/EPDM material
- ☐ Removing and installing. Refer to
⇒ ["1.4 Bumper Cover, Removing and Installing", page 248](#) .

2 - Support Piece

- ☐ Left for the headlamp washer system
- ☐ Engaged in front bumper cover
- ☐ To be removed only with front bumper cover removed

3 - Fog Lamp Trim

- ☐ Left
- ☐ Pull forward out of the catch.
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

4 - Left Trim Cover

- ☐ Pull the spoiler extension forward out of the retainers in the bumper cover; it is not necessary to remove the bumper cover

5 - Spoiler Bracket

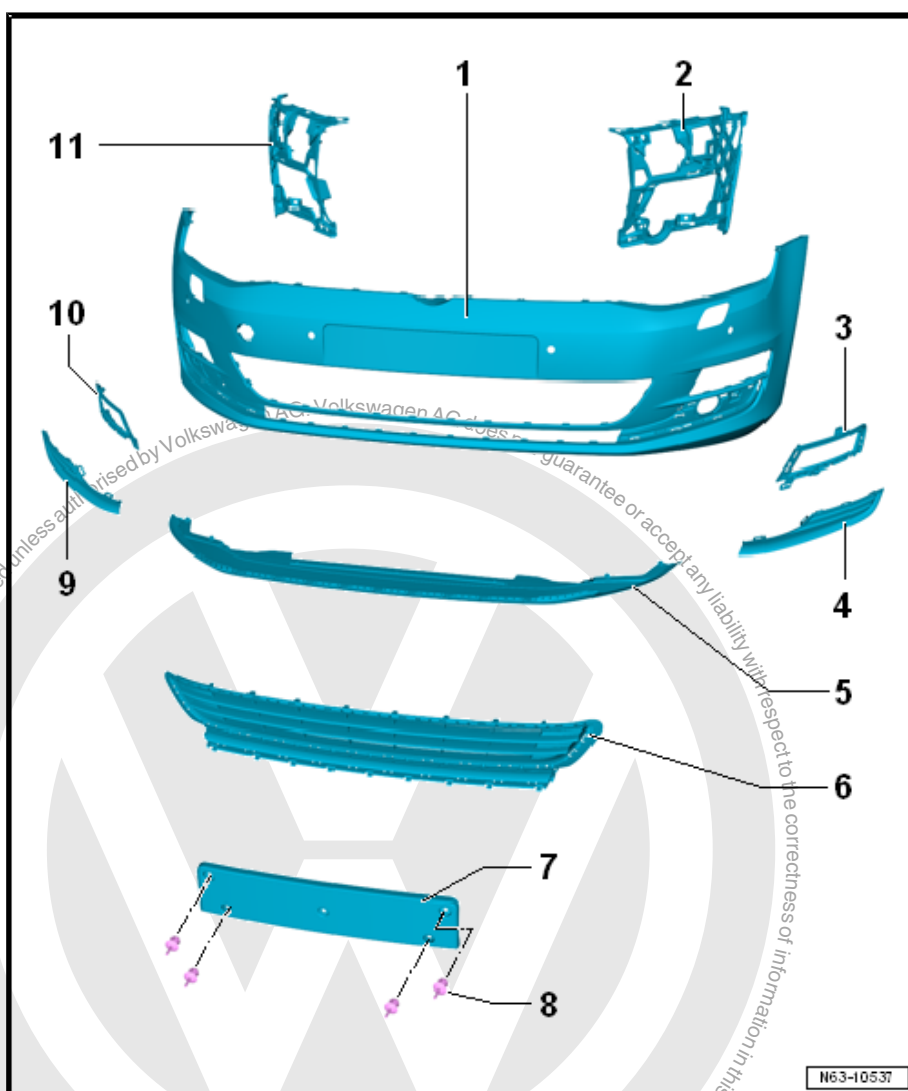
- ☐ To be removed only with front bumper cover removed

6 - Center Air Grille

- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

7 - License Plate Holder

- ☐ Not installed on all models for all markets.
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.





8 - Clips

- ☐ Different quantity for mounting

9 - Right Trim Cover

- ☐ Pull the spoiler extension forward out of the retainers in the bumper cover; it is not necessary to remove the bumper cover
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

10 - Fog Lamp Trim

- ☐ Right
- ☐ Pull forward out of the catch.
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

11 - Support Piece

- ☐ Right for the headlamp washer system
- ☐ Engaged in front bumper cover
- ☐ To be removed only with front bumper cover removed





1.2.2 Overview - Attachments, GTI/GTD



Note

Depending on model version, slight deviations for attachments must be considered.

1 - Bumper Cover

- ☐ PP/EPDM material
- ☐ Removing and installing. Refer to
⇒ ["1.4 Bumper Cover, Removing and Installing", page 248](#).

2 - Support Piece

- ☐ Left for the headlamp washer system
- ☐ Engaged in bumper cover
- ☐ To be removed only with bumper cover removed

3 - Spoiler Bracket

- ☐ To be removed only with bumper cover removed

4 - Front Spoiler

- ☐ Left
- ☐ To be removed only with bumper cover removed

5 - Center Air Grille

- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

6 - Trim

- ☐ Left
- ☐ Pull forward out of the catch.
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

7 - Left Trim Cover

- ☐ To be removed only with bumper cover removed

8 - License Plate Holder

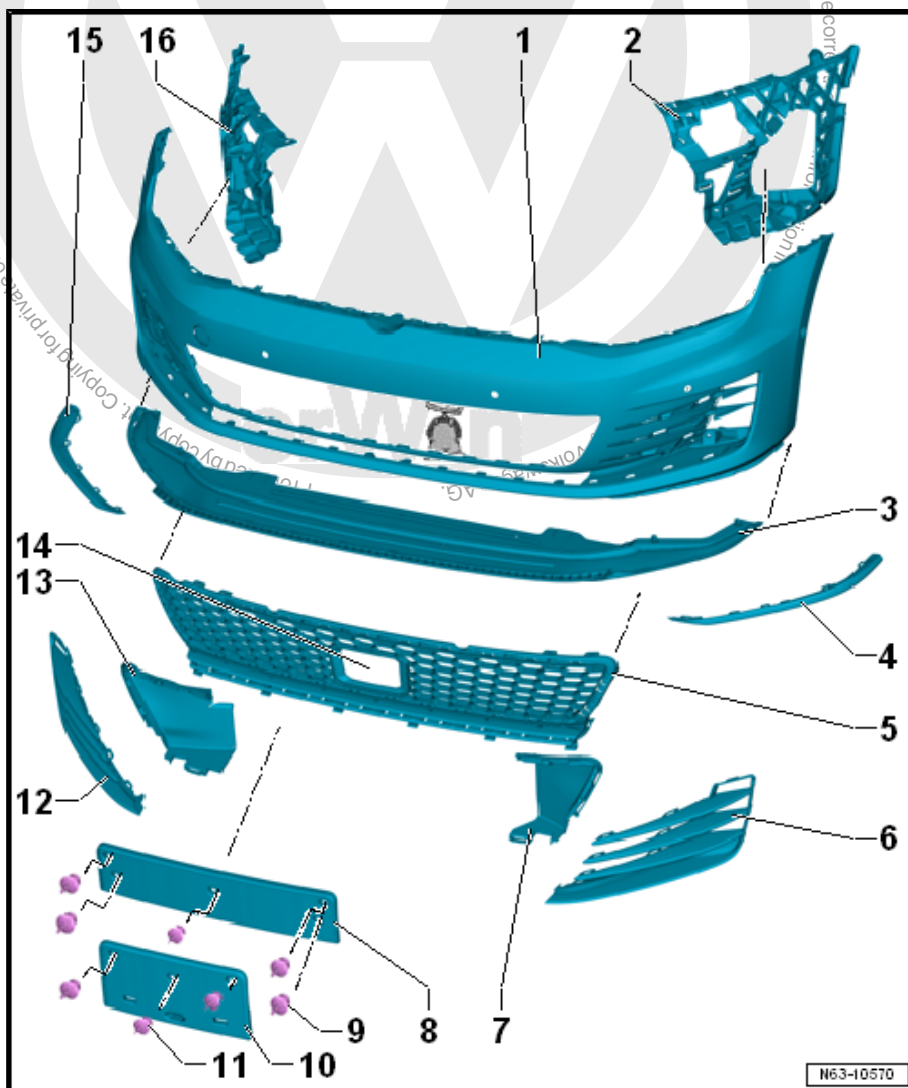
- ☐ Not installed on all models for all markets.
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

9 - Clips

- ☐ Different quantity for mounting

10 - License Plate Holder

- ☐ Not installed on all models for all markets.
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.





11 - Clips

- ☐ Different quantity for mounting

12 - Trim

- ☐ Right
- ☐ Pull forward out of the catch.
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

13 - Right Trim Cover

- ☐ To be removed only with bumper cover removed

14 - Frame

- ☐ For the sensor

15 - Front Spoiler

- ☐ Right
- ☐ To be removed only with bumper cover removed

16 - Support Piece

- ☐ Right for the headlamp washer system
- ☐ Engaged in bumper cover
- ☐ To be removed only with bumper cover removed



1.2.3 Overview - Attachments, "e-Golf" and "GTE"

1 - Front Bumper Cover

- ☐ PP/EPDM material
- ☐ Removing and installing. Refer to
⇒ ["1.4 Bumper Cover, Removing and Installing", page 248](#).

2 - Support Piece, Left

- ☐ For the headlamp washer system
- ☐ Engaged in bumper cover
- ☐ To be removed only with bumper cover removed

3 - Cover Cap, Left

- ☐ For the headlamp washer system

4 - Spoiler

- ☐ To be removed only with bumper cover removed

5 - Daytime Running Lamps

- ☐ To be removed only with bumper cover removed
- ☐ Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; Headlamp; Overview - Headlamp .

6 - Center Air Grille

- ☐ There are different versions. For allocation. Refer to the Parts Catalog.
- ☐ To be removed only with bumper cover removed
- ☐ To be removed only with daytime running lamps and trim removed

7 - Trim

- ☐ To be removed only with bumper cover removed

8 - Chrome Trim Strip

- ☐ Part of the center air grille

9 - License Plate Holder

- ☐ Not installed on all models for all markets.
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

10 - Clips

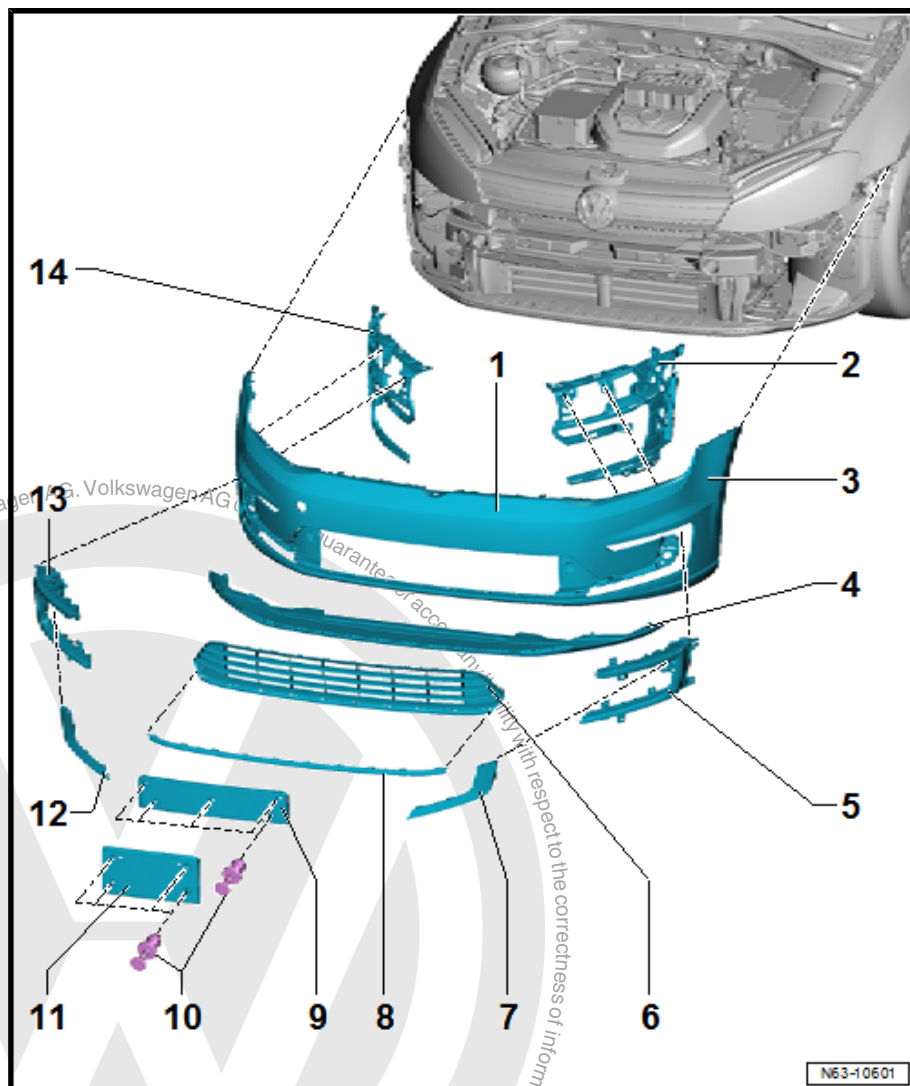
- ☐ Quantity of 4 to 5, depending on the model of the license plate holder

11 - License Plate Holder

- ☐ Not installed on all models for all markets.
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

12 - Trim

- ☐ To be removed only with bumper cover removed





13 - Daytime Running Lamps

- ☐ To be removed only with bumper cover removed
- ☐ Removing and installing. Refer to ➤ Electrical Equipment; Rep. Gr. 94 ; Headlamp; Overview - Headlamp .

14 - Support Piece, Right

- ☐ For the headlamp washer system
- ☐ Engaged in bumper cover
- ☐ To be removed only with bumper cover removed

1.2.4 Overview - Attachments, "R-Line"

1 - Front Bumper Cover

- ☐ PP/EPDM material
- ☐ Removing and installing. Refer to
➤ ["1.4 Bumper Cover, Removing and Installing", page 248](#) .

2 - Support Piece, Left

- ☐ For the headlamp washer system
- ☐ Engaged in bumper cover
- ☐ To be removed only with bumper cover removed

3 - Cover cap, Left

- ☐ For the headlamp washer system

4 - Trim for the Left Fog Lamp

- ☐ Pull forward out of the catch.

5 - Spoiler

- ☐ To be removed only with bumper cover removed

6 - Trim Strip Chrome, Left

7 - Center Air Grille

- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

8 - Trim Chrome, Center

9 - Clips

- ☐ Quantity: 4

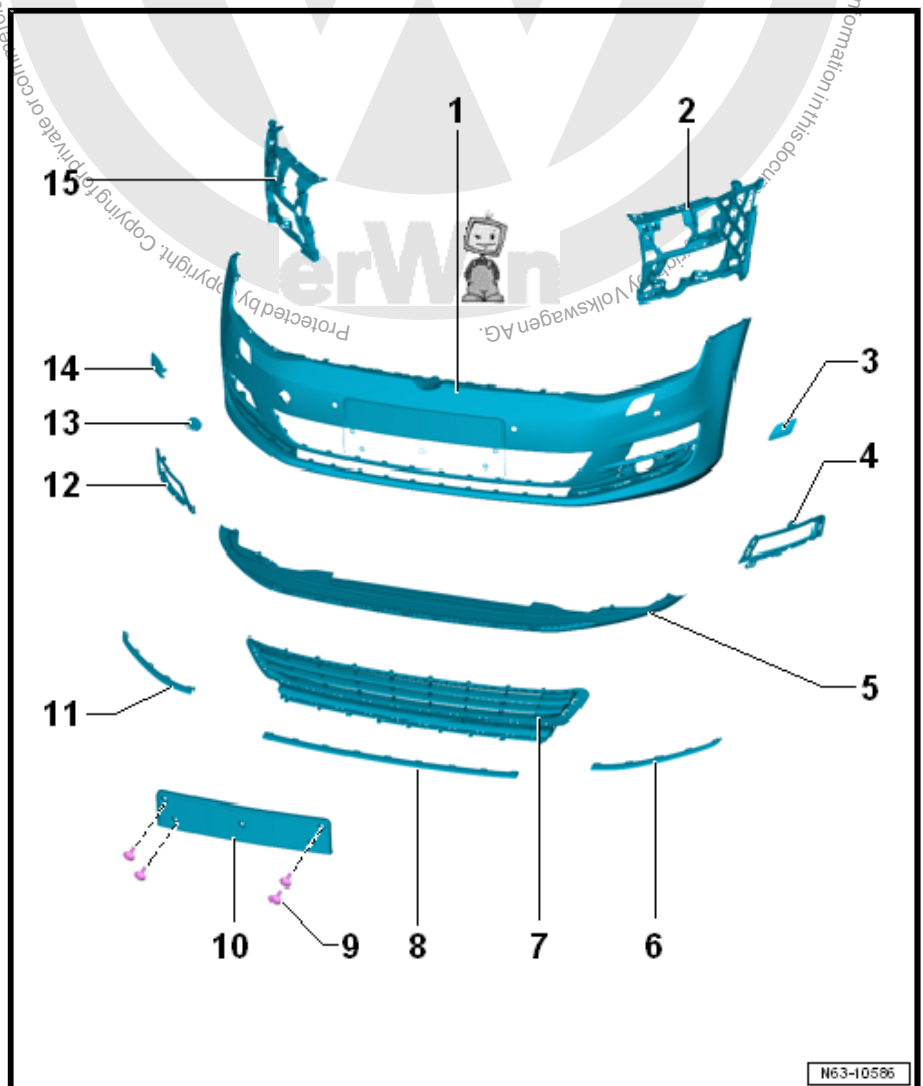
10 - License Plate Holder

- ☐ Not installed on all models for all markets.
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

11 - Trim Strip Chrome, Right

12 - Trim for the Right Fog Lamp

- ☐ Pull forward out of the catch.





13 - Towing Eyelet Cap

- ☐ Engaged in bumper cover

14 - Cover Cap, Right

- ☐ For the headlamp washer system

15 - Support Piece, Right

- ☐ For the headlamp washer system
- ☐ Engaged in bumper cover
- ☐ To be removed only with bumper cover removed

1.2.5 Overview - Attachments, "R"

1 - Front Bumper Cover

- ☐ PP/EPDM material
- ☐ Removing and installing. Refer to ["1.4 Bumper Cover, Removing and Installing", page 248](#).

2 - Support Piece, Left

- ☐ For the headlamp washer system
- ☐ Engaged in bumper cover
- ☐ To be removed only with bumper cover removed

3 - End Plate, Left

- ☐ Engaged in bumper cover
- ☐ To be removed only with bumper cover removed

4 - Cover Cap, Left

- ☐ For the headlamp washer system

5 - Cover, Left

- ☐ Engaged in bumper cover
- ☐ To be removed only with bumper cover removed

6 - Spoiler

- ☐ To be removed only with bumper cover removed

7 - Trim Strip Chrome, Left

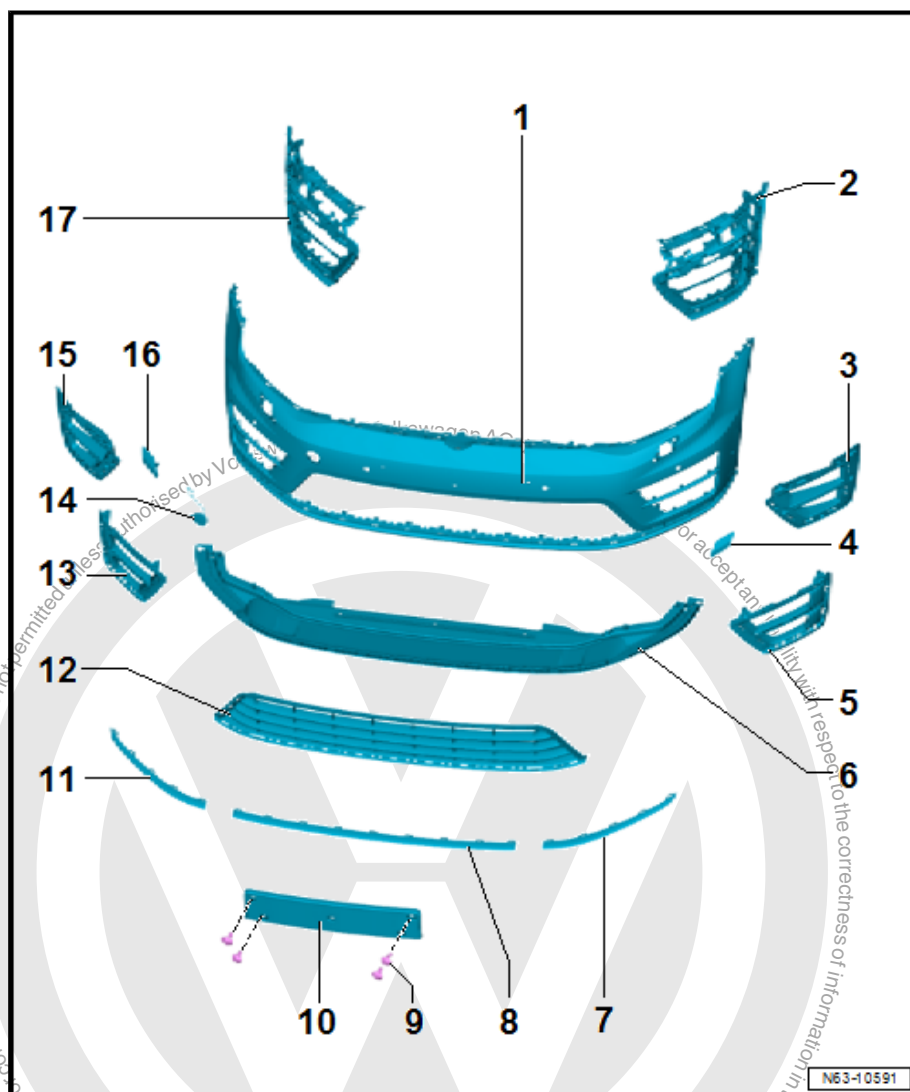
8 - Trim Chrome, Center

9 - Clips

- ☐ Quantity: 4

10 - License Plate Holder

- ☐ Not installed on all models for all markets
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.





11 - Trim Strip Chrome, Right

12 - Center Air Grille

- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

13 - Trim Cover, Right

- ☐ Engaged in bumper cover
- ☐ To be removed only with bumper cover removed

14 - Towing Eyelet Cap

- ☐ Engaged in bumper cover

15 - End Plate, Right

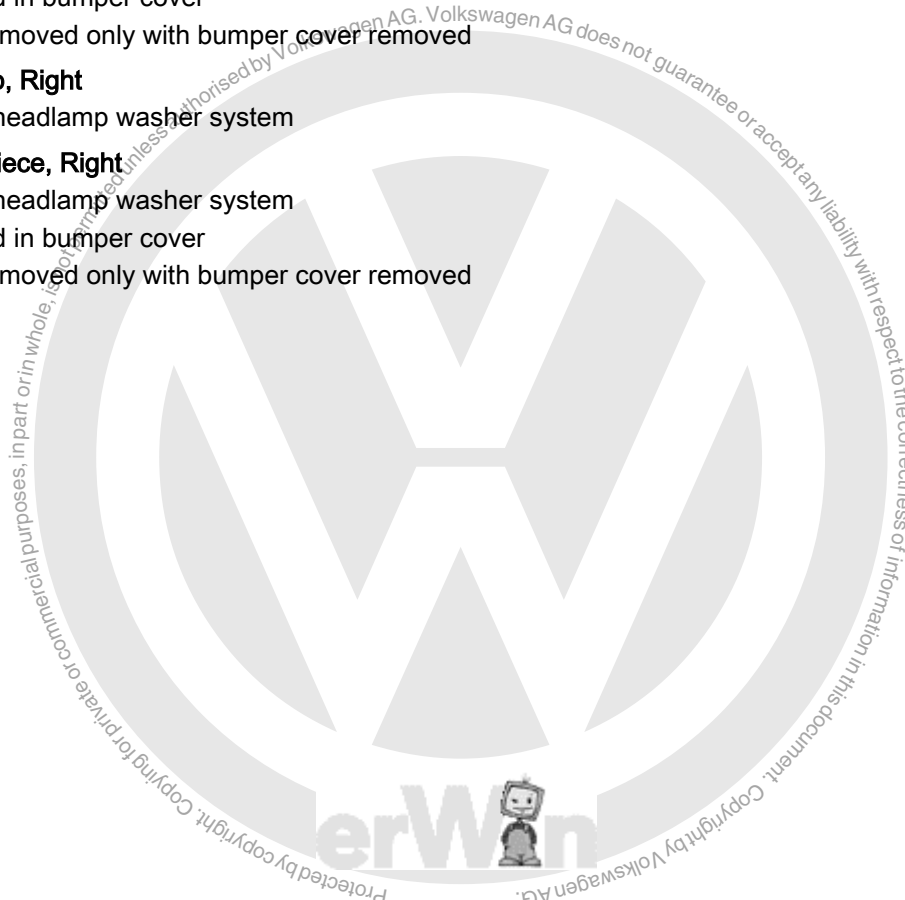
- ☐ Engaged in bumper cover
- ☐ To be removed only with bumper cover removed

16 - Cover Cap, Right

- ☐ For the headlamp washer system

17 - Support Piece, Right

- ☐ For the headlamp washer system
- ☐ Engaged in bumper cover
- ☐ To be removed only with bumper cover removed





1.3 Overview - Impact Absorber

1 - Impact Member

2 - Guide

- ☐ Left and right

3 - Hex Nut

- ☐ 2.0 Nm
- ☐ Quantity: 2 on each side

4 - Bolt

- ☐ 8 Nm
- ☐ Quantity: 2 on each side

5 - Bolt

- ☐ 55 Nm
- ☐ Quantity: 4 on each side

6 - Pedestrian Protection

- ☐ Not installed in all markets.

7 - Blind Rivet

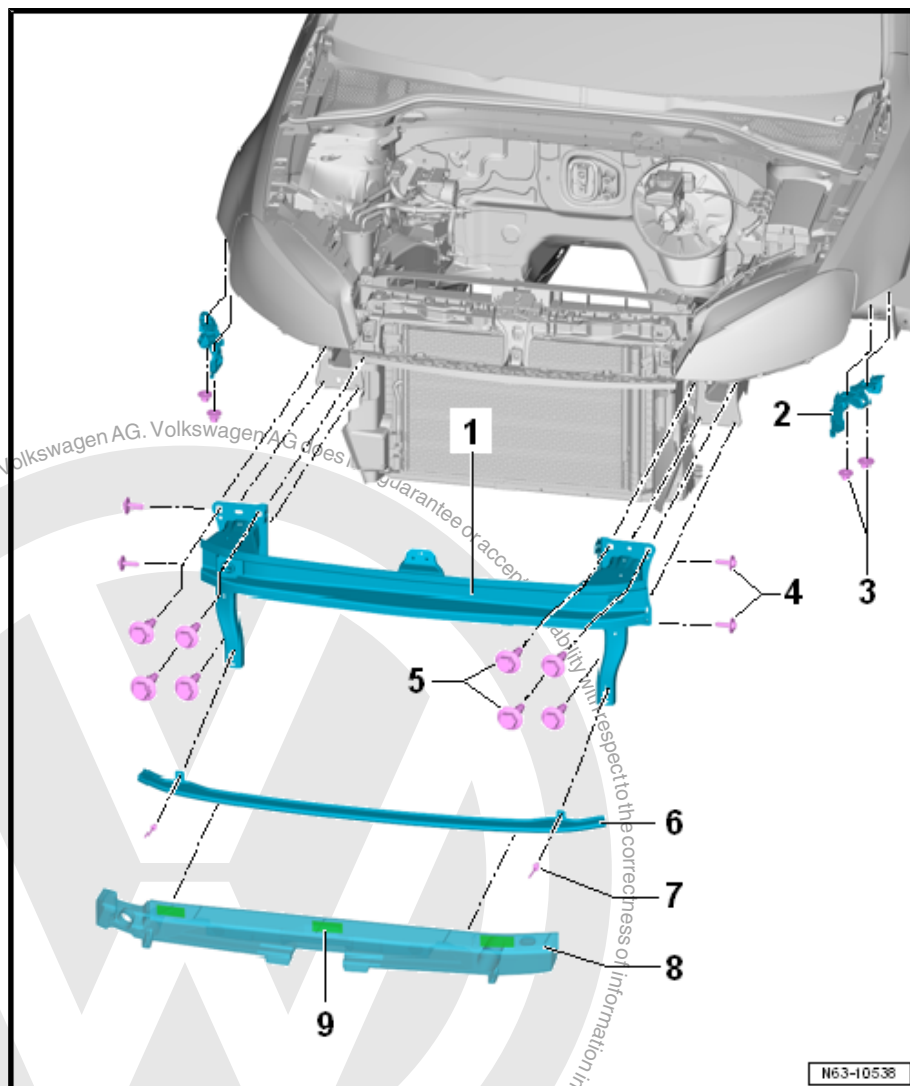
- ☐ Left and right
- ☐ Tighten using the Pop Rivet Pliers - VAG1753A-

8 - Foam Piece

- ☐ Self-adhesive
- ☐ Not installed in all models

9 - Butyl Strips

- ☐ Quantity 3 with adhesive film



1.4 Bumper Cover, Removing and Installing

Volkswagen R GmbH "R-Line" and "R" optional equipment

Special tools and workshop equipment required

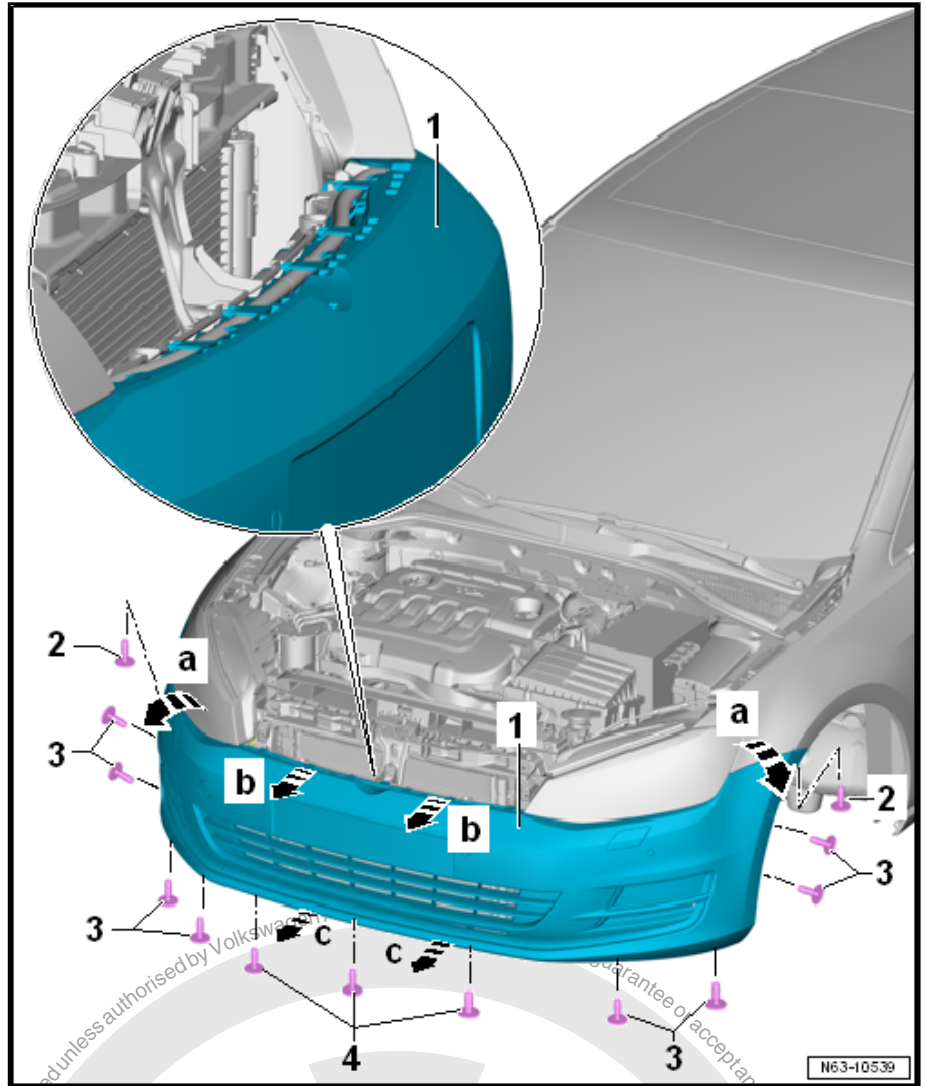
- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

Slight changes may have to be made to removal and installation procedures of front bumper cover, depending upon equipment installed in vehicle.

Removing



- Remove the radiator grille. Refer to
⇒ ["1.3 Radiator Grille, Removing and Installing", page 314](#) .
- Remove the left and right bolts -2- inside the wheel housing (facing up).
- Remove the left and right bolts -3-.
- Remove the bolts -4- from underneath.

A second technician is required for the rest of the removal procedure.

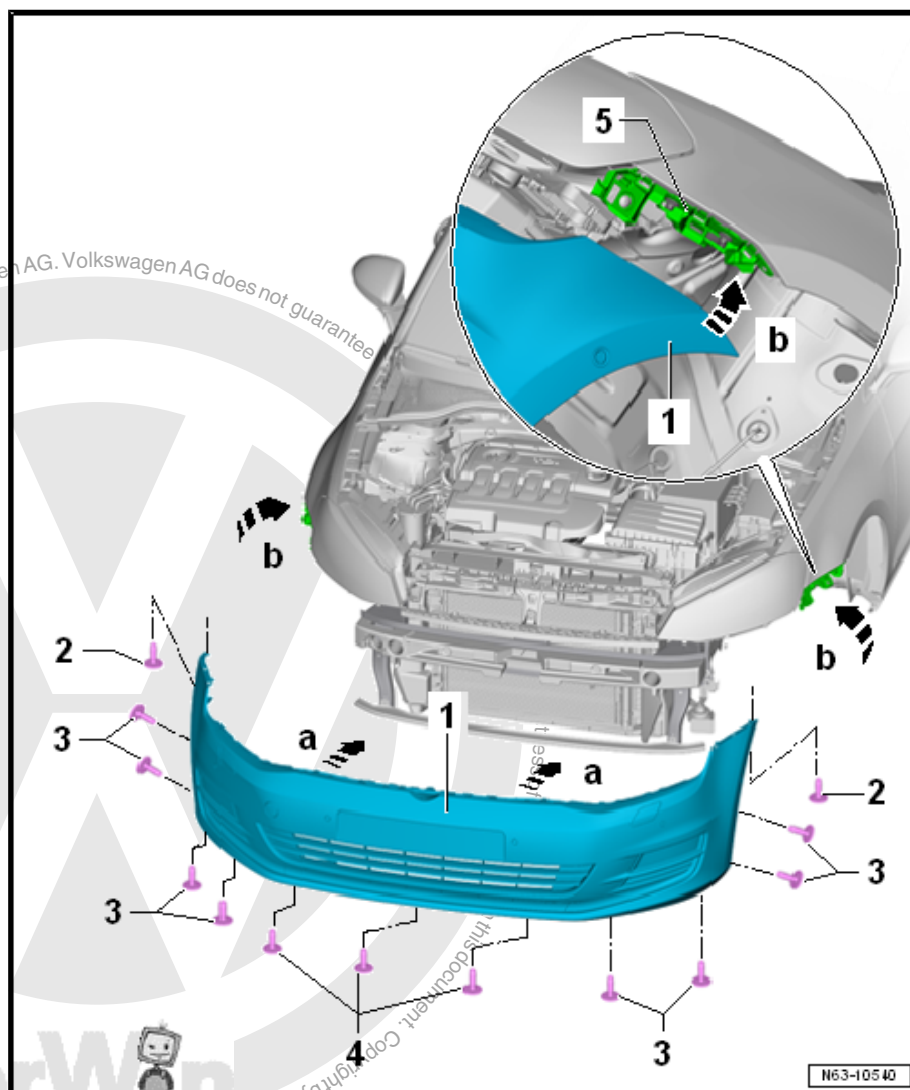
- Pull the bumper cover -1- out of the guides on the left and right sides of the fender -arrows a-.
- Loosen the hooks -b arrows- from the lock carrier.
- Remove the bumper cover -1- from the vehicle so that it is parallel -arrows c-.
- Disconnect the hose coupling from the windshield washer fluid hose (if equipped). Refer to ⇒ Electrical Equipment; Rep. Gr. 92 ; Headlamp Washer System; Overview - Headlamp Washer System .
- Disconnect the connector from electric components (as equipped).



Information regarding the parking aid. Refer to ➤ Electrical Equipment; Rep. Gr. 94 ; Parking Aid .

Information regarding the parallel parking assist. Refer to ➤ Electrical Equipment; Rep. Gr. 94 ; Parallel Parking Assist .

Installing



Installation is only possible with a second technician.

- Disconnect the connectors from any electrical components.



Note

When installing the bumper cover pay attention that the front wheel housing liner is seated correctly.

- Guide the bumper cover -1- parallel on the lock carrier -a arrows-, until the hook engages.
- Push the bumper cover -1- into the left and right guides -5- on the fender until it locks -arrow b-.
- Pay attention to the gap dimensions. Refer to ➤ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .



Tightening Specifications

1.5 Bumper Cover, Servicing



Note

If the bumper cover is damaged, first determine if it is possible to repair the plastic before installing a new cover.

Refer to ⇒ General Information; Body Repairs, Body Collision Repair

1.6 Parking Aid Mount, Installing

Special tools and workshop equipment required

- ◆ PDC Holder Tool Set - VAS6614B-
- ◆ Hand Cartridge Gun - VAS5155-

Materials

- ◆ 2K-Plastic-Adhesive Refer to Parts Catalog
- ◆ Bonding Agent for Plastic Refer to Parts Catalog
- ◆ Cleaning Solution Refer to Parts Catalog
- ◆ Primer Applicator Refer to Parts Catalog



Note

- ◆ *Follow the manufacturer instructions supplied in the packaging.*
- ◆ *Observe minimum curing time.*

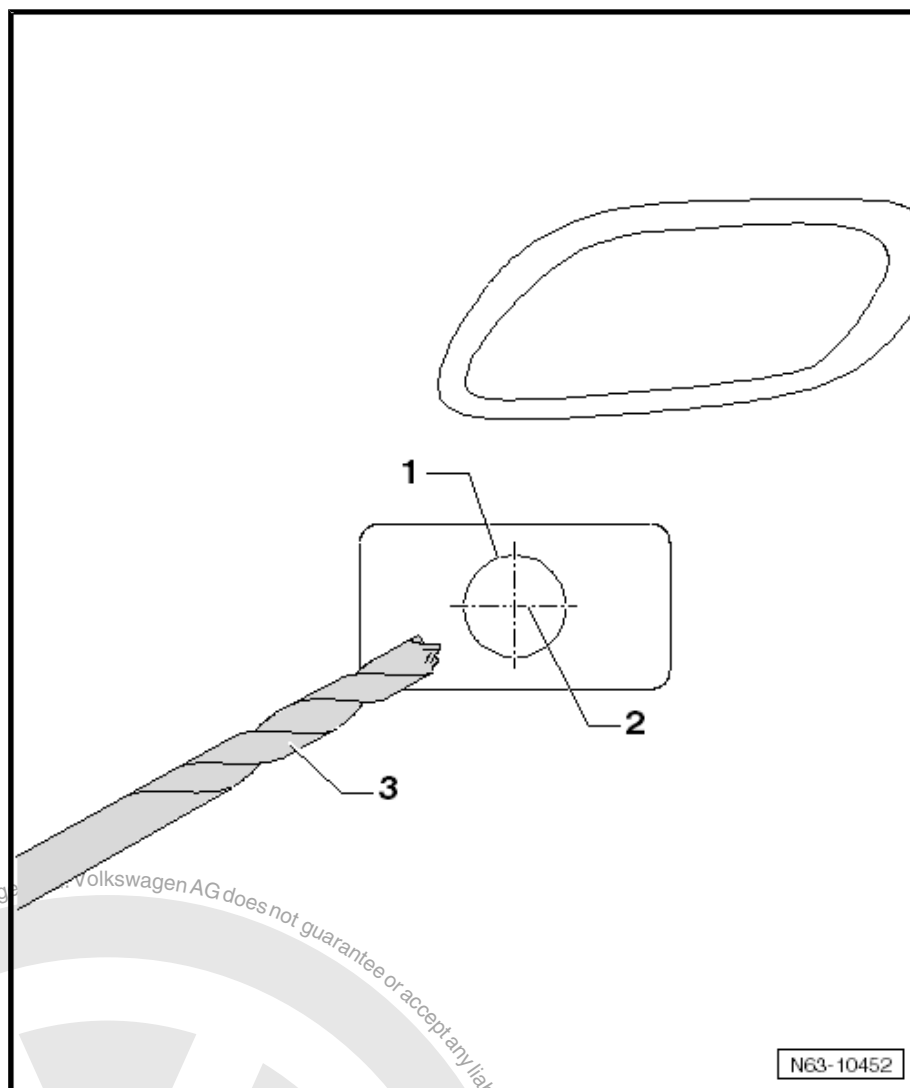
Bracket, Installing



Note

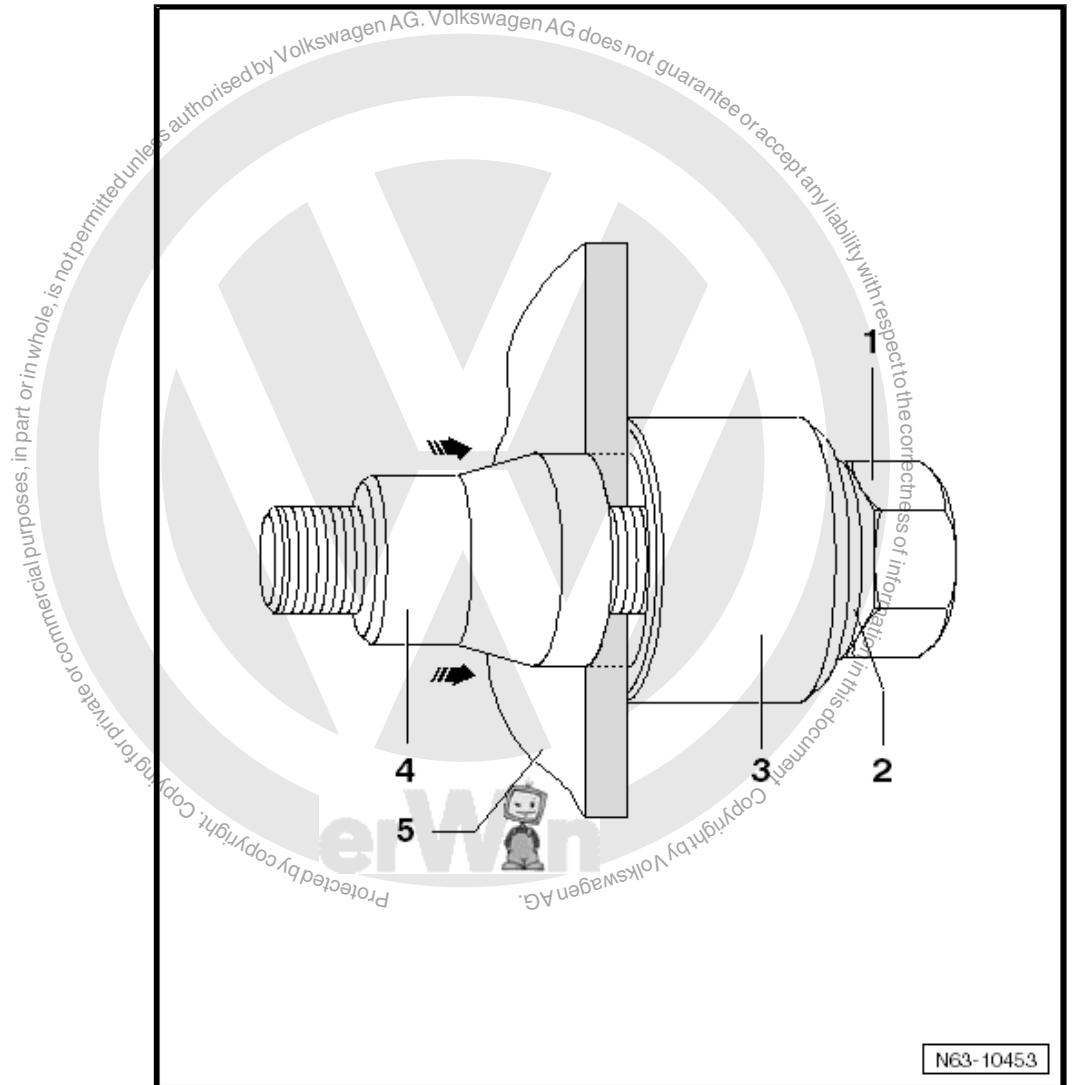
After the bumper cover is painted, install the mount.





The 4 markings for the bracket -1- are found on the inside of the bumper cover.

- Determine the central point -2-, if not already present.
- Drill the holes from inside outward with a tool set and supplied drill -3-.



- Position the hole stamper with the bolt head -1-, washer -2- and counterholder-3- on the inside of the bumper cover -5-.
- Install the iron punch -4- almost up to the bumper cover.
- Push the iron punch -4- on the bumper cover.
- Tighten the hole stamper -1-.



Note

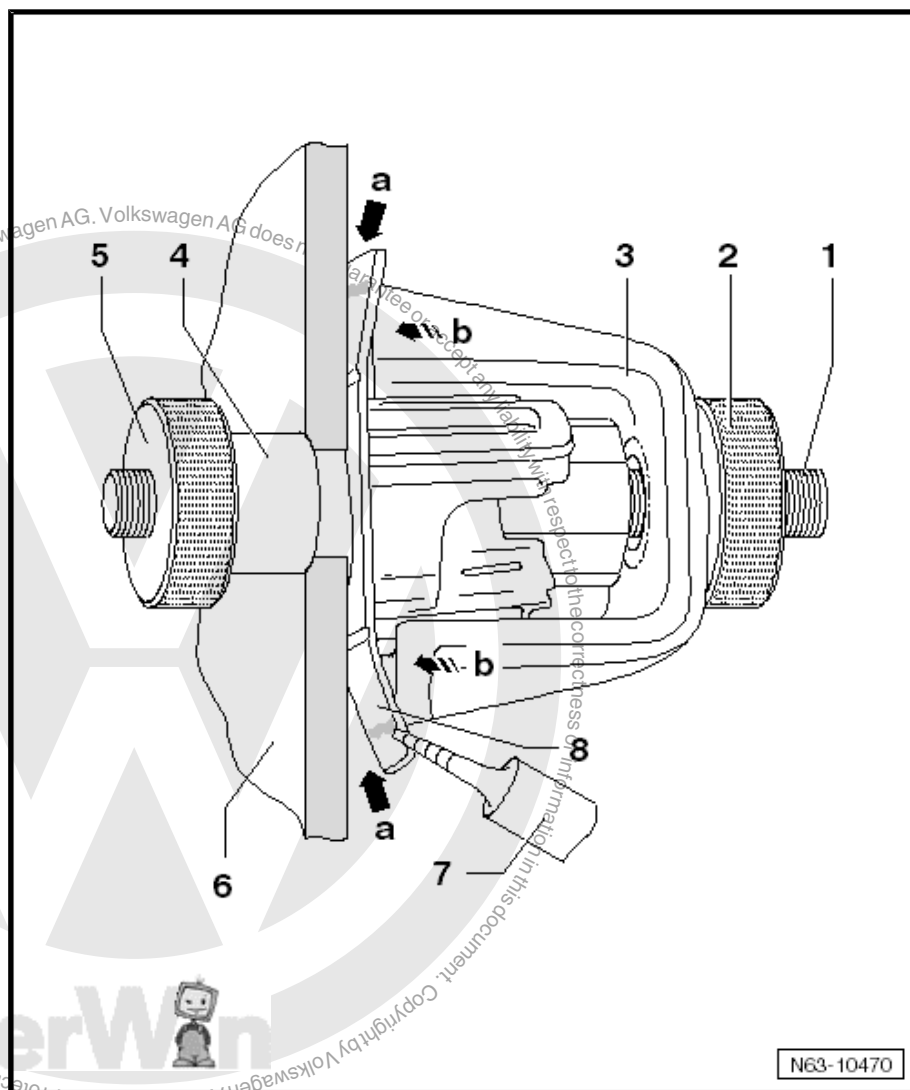
The iron punch -4- cannot rotate on the bumper cover paint.

- By turning on the bolt head-1-, the iron punch -4- is pulled through the bumper cover material -5- -arrows-.
- Remove the hole stamper and stamp the next hole.
- Always clean the bumper cover and the mount thoroughly with cleaning solution.



Note

Apply no more than approximately 1 cm of adhesive to the top.



- Lightly grind the inside of the bumper cover -6- and thoroughly clean it.
- Thinly apply the bonding agent for the plastic to the bumper cover and mount and let it set for 10 minutes.
- Slide the mount -8- onto the centering drift -1- and push through the bumper cover -6-.
- Remove the counterholder -4- and lightly tighten the knurled nut -5-.
- Remove the clamping clip -3- and position the knurled nut -2-, do not tighten.
- All the mounts are prepared in this way.



Note

The adhesive cannot run up to the bend.

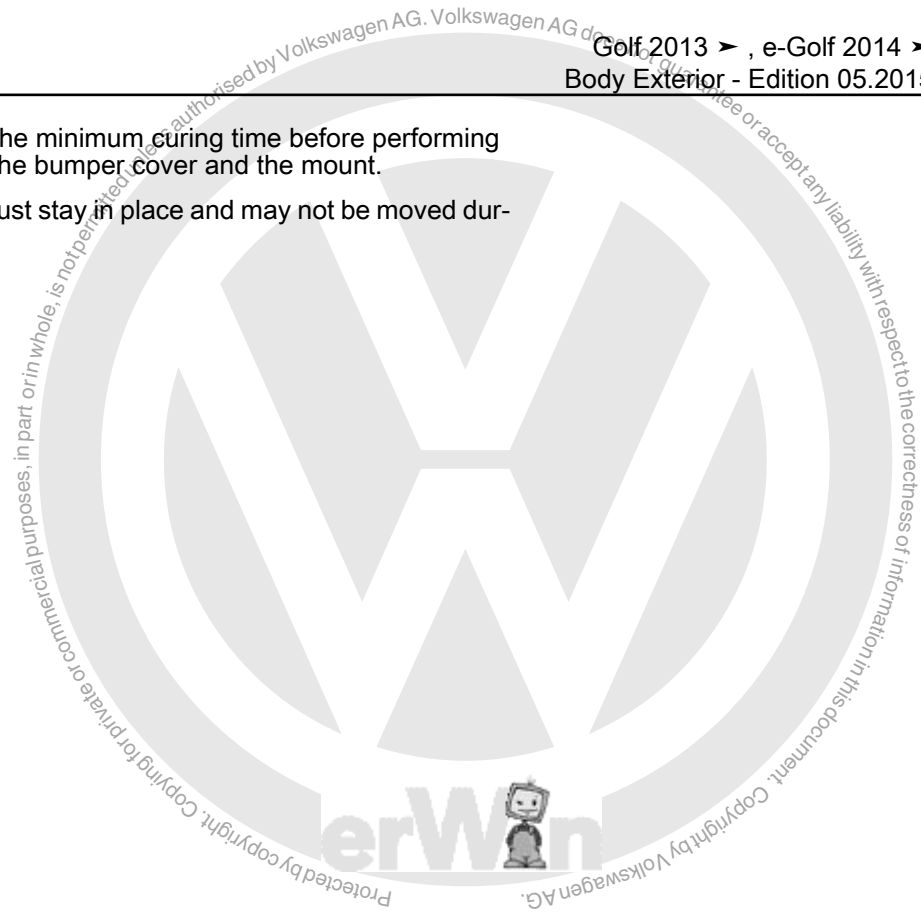
- Apply adhesive as shown in the illustration and tighten the knurled nut -2-.
- After the minimum curing time, remove all centering drifts.

6) Minimum Curing Time



Wait 30 minutes for the minimum curing time before performing any further work on the bumper cover and the mount.

The bumper cover must stay in place and may not be moved during this time.





2 Rear Bumper

⇒ [“2.1 Overview - Bumper Cover”, page 256](#)

⇒ [“2.2 Overview - Bumper Cover Guides”, page 257](#)

⇒ [“2.3 Overview - Attachments”, page 258](#)

⇒ [“2.4 Overview - Impact Absorber”, page 262](#)

⇒ [“2.5 Bumper Cover, Removing and Installing”, page 263](#)

⇒ [“2.6 Impact Member, Removing and Installing”, page 267](#)

⇒ [“2.7 Bumper Cover, Servicing”, page 268](#)

⇒ [“2.8 Parking Aid Mount, Installing”, page 268](#)

2.1 Overview - Bumper Cover



Note

The bumper cover liner may differ slightly depending on the model.

1 - Bumper Cover

- ☐ PP/EPDM material
- ☐ Removing and installing. Refer to
⇒ [“2.5 Bumper Cover, Removing and Installing”, page 263](#).

2 - Guide

- ☐ right and left
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

3 - Guide

- ☐ Right and left tail lamp assembly
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

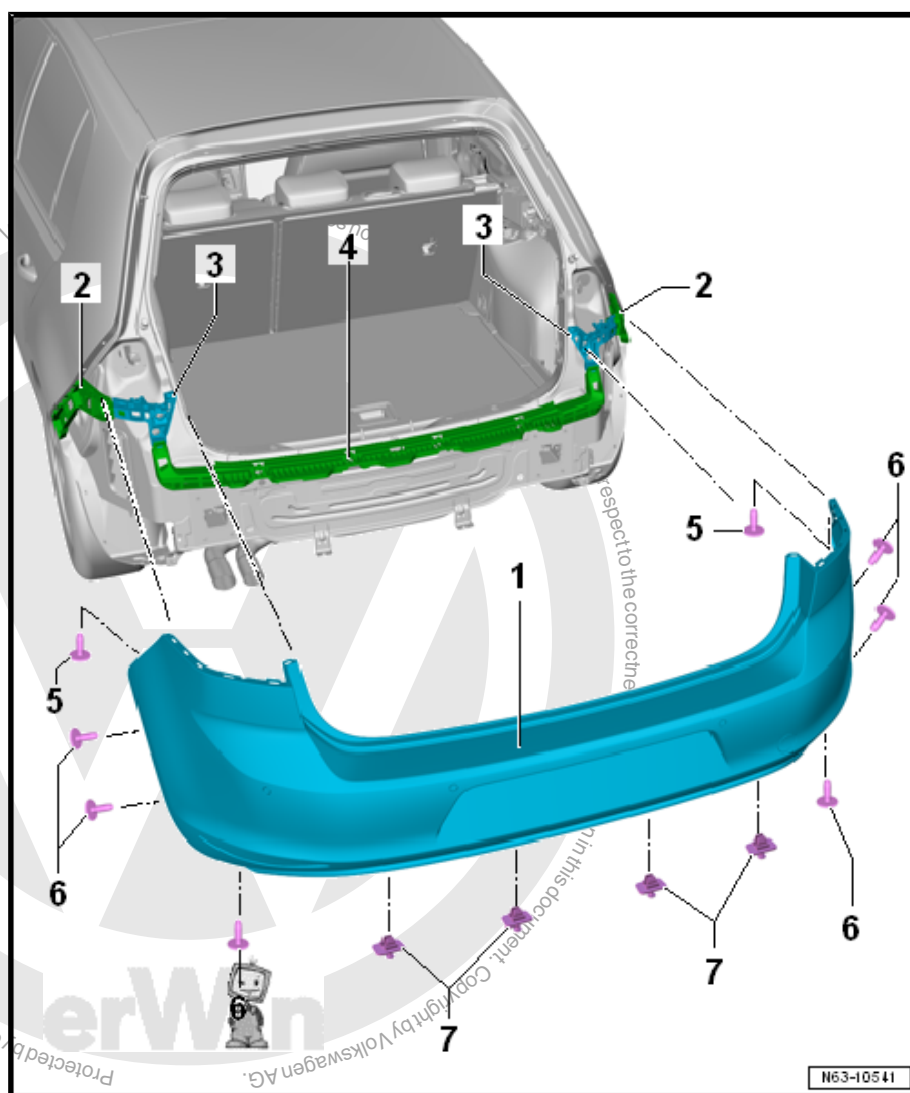
4 - Center guide

5 - Bolt

- ☐ Left and right
- ☐ Pointing upward
- ☐ Attached to the side panel
- ☐ 2.0 Nm

6 - Bolt

- ☐ Quantity: 3 on each side
- ☐ Attached to the wheel housing liner
- ☐ 2 Nm





7 - Expanding Rivet

- ☐ Quantity: 4

2.2 Overview - Bumper Cover Guides

Volkswagen R GmbH "R-Line" and "R" optional equipment



Note

There are different versions. For allocation. Refer to the Parts Catalog .

1 - Guide

- ☐ right and left

2 - Hex Nut

- ☐ 3.5 Nm
- ☐ Quantity: 3 on each side

3 - Guide

- ☐ Right and left tail lamp assembly

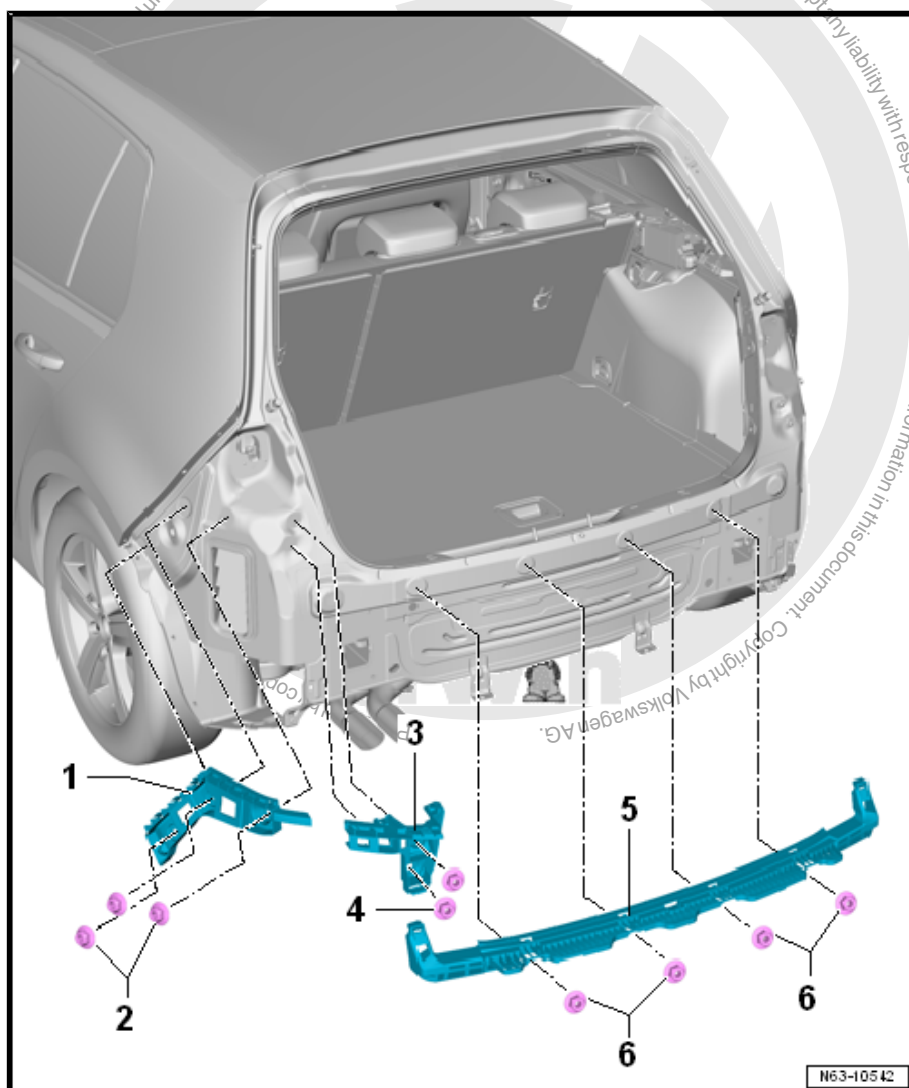
4 - Hex Nut

- ☐ 3.5 Nm
- ☐ Quantity: 2 on each side

5 - Center Guide

6 - Hex Nut

- ☐ 3.5 Nm
- ☐ Quantity: 4





2.3 Overview - Attachments

⇒ [“2.3.1 Overview - Attachments”, page 258](#)

⇒ [“2.3.2 Overview - Attachments, GTI/GTD”, page 259](#)

⇒ [“2.3.3 Overview - Attachments, R-Line ”, page 260](#)

⇒ [“2.3.4 Overview - Attachments, R ”, page 261](#)

⇒ [“2.3.5 Overview - Wheel Housing Liner Bracket Adapter R-Line and R ”, page 262](#)

2.3.1 Overview - Attachments

1 - Bumper Cover

- ☐ PP/EPDM material
- ☐ Removing and installing. Refer to
⇒ [“2.5 Bumper Cover, Removing and Installing”, page 263](#) .

2 - Towing Eyelet Cap

- ☐ Engaged in bumper cover

3 - Right Rear Reflector

- ☐ Secured to bumper cover
- ☐ To be removed only with bumper cover removed

4 - License Plate Lamps

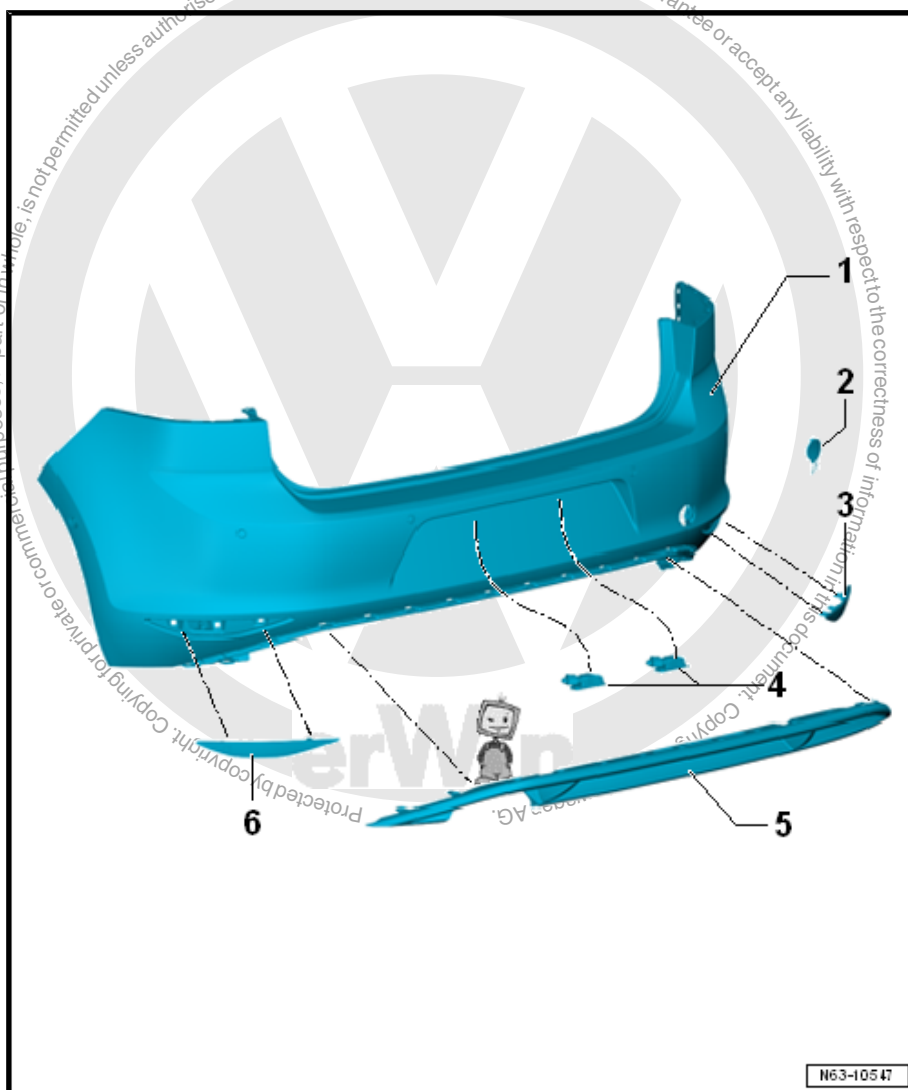
- ☐ Quantity: 2
- ☐ Removing. Refer to ⇒
Electrical Equipment;
Rep. Gr. 94 ; License
Plate Lamp .

5 - Spoiler

- ☐ Material PC/ABS
- ☐ Secured to bumper cover
- ☐ To be removed only with bumper cover removed
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

6 - Left Rear Reflector

- ☐ Secured to bumper cover
- ☐ To be removed only with bumper cover removed





2.3.2 Overview - Attachments, GTI/GTD

1 - Bumper Cover

- ☐ PP/EPDM material
- ☐ Removing and installing. Refer to
⇒ ["2.5 Bumper Cover, Removing and Installing", page 263](#) .

2 - Rear Reflector

- ☐ right and left
- ☐ Secured to bumper cover
- ☐ To be removed only with bumper cover removed

3 - Bolts

- ☐ 1.5 Nm
- ☐ Quantity: 2 on each side

4 - Adapter

- ☐ Connects the spoiler with the bumper cover
- ☐ Additional step. Refer to
⇒ [page 266](#) .

5 - Spring Nut

- ☐ Quantity: 2 on each side

6 - Spoiler

- ☐ Material PC/ABS
- ☐ Secured to bumper cover
- ☐ To be removed only with bumper cover removed
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

7 - Clips

- ☐ Quantity: 4
- ☐ Different numbers for attaching are possible.

8 - License Plate Holder

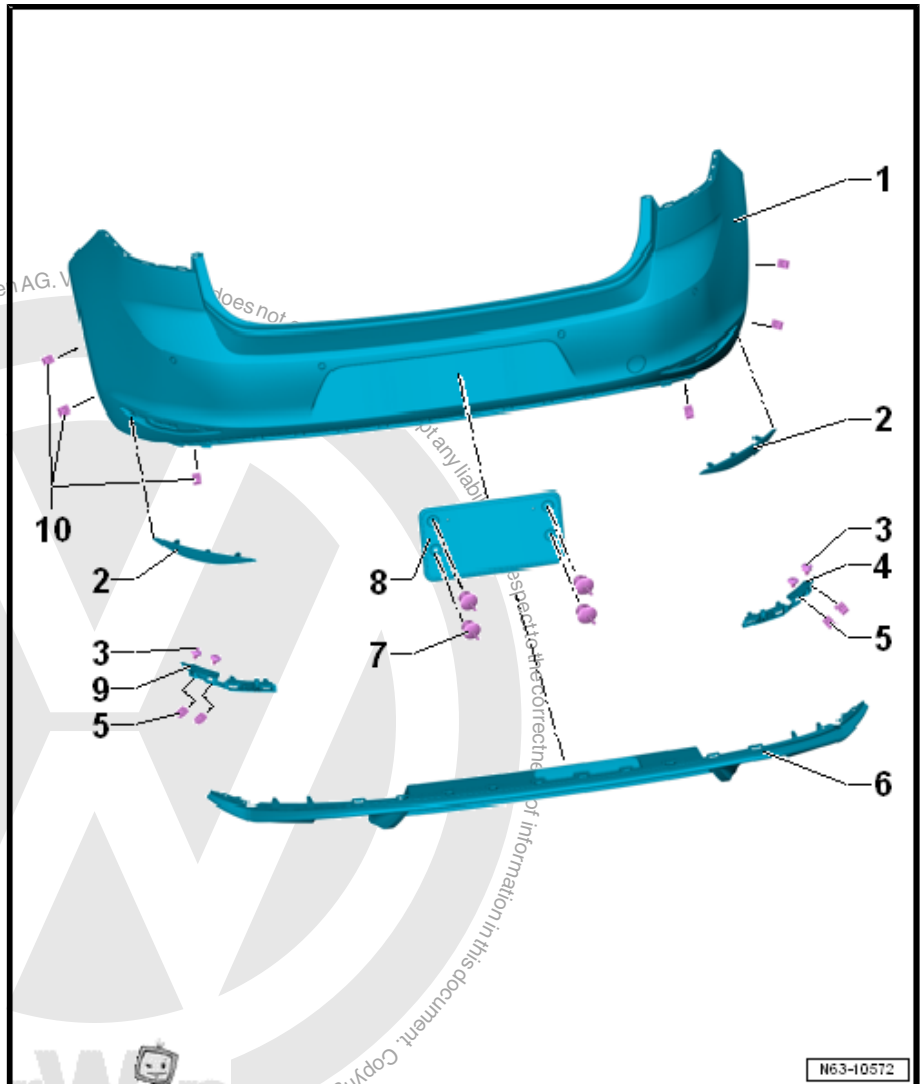
- ☐ Not installed on all models for all markets.
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

9 - Adapter

- ☐ Connects the spoiler with the bumper cover
- ☐ Additional step. Refer to ⇒ [page 266](#) .

10 - Spring Nut

- ☐ Quantity: 3 on each side





2.3.3 Overview - Attachments, "R-Line"

1 - Bumper Cover

- ☐ PP/EPDM material
- ☐ Removing and installing. Refer to
⇒ ["2.5 Bumper Cover, Removing and Installing", page 263](#) .

2 - Towing Eyelet Cap

- ☐ Engaged in bumper cover

3 - License Plate Holder

- ☐ Not installed on all models for all markets.
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

4 - Clips

- ☐ Quantity: 4
- ☐ Different numbers for attaching are possible.

5 - Rear Reflector, Right

- ☐ Secured to bumper cover
- ☐ To be removed only with bumper cover removed

6 - Adapter, Right

- ☐ To be removed only with bumper cover removed. Refer to
⇒ ["2.3.5 Overview - Wheel Housing Liner Bracket Adapter R-Line and R", page 262](#) .

7 - License Plate Lamps

- ☐ Quantity: 2
- ☐ Removing. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; License Plate Lamp .

8 - Diffuser

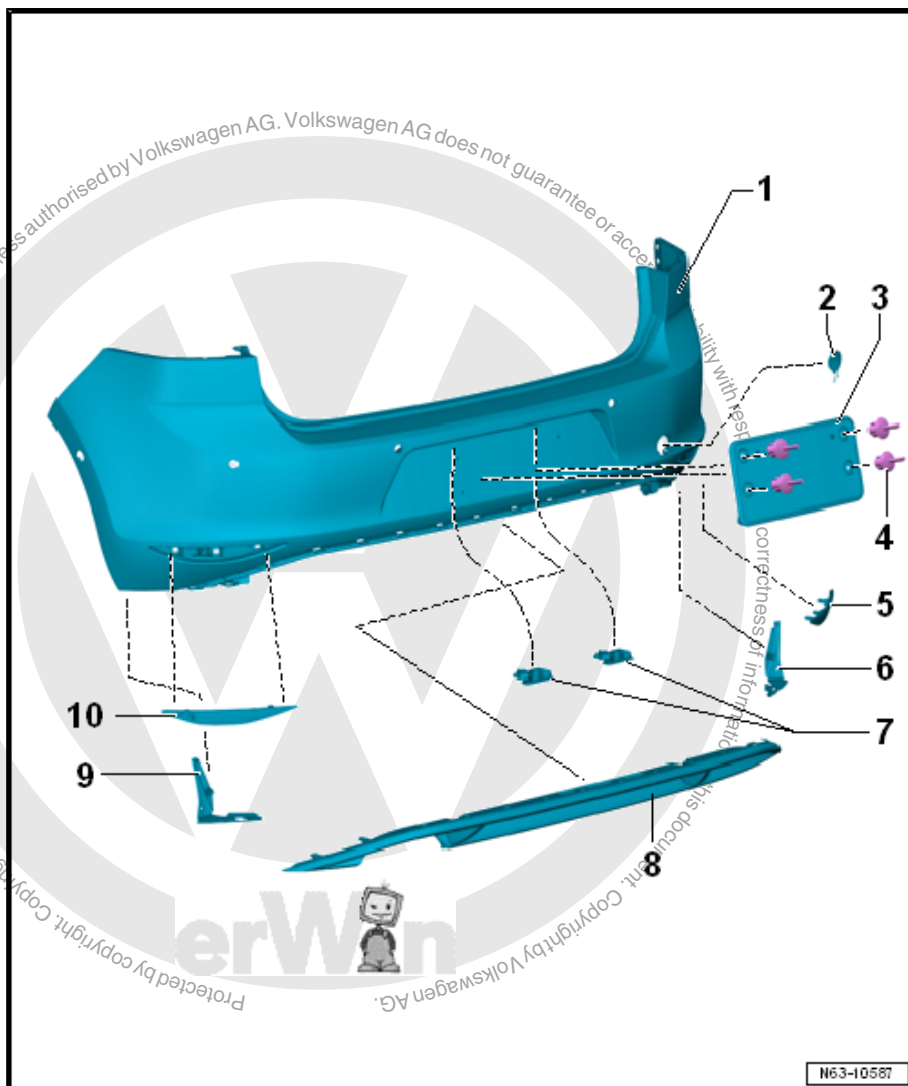
- ☐ Made of PP+EPDM
- ☐ Secured to bumper cover
- ☐ To be removed only with bumper cover removed
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

9 - Adapter, Left

- ☐ To be removed only with bumper cover removed. Refer to
⇒ ["2.3.5 Overview - Wheel Housing Liner Bracket Adapter R-Line and R", page 262](#) .

10 - Rear Reflector, Left

- ☐ Secured to bumper cover
- ☐ To be removed only with bumper cover removed





2.3.4 Overview - Attachments, "R"

1 - Bumper Cover

- ☐ PP/EPDM material
- ☐ Removing and installing. Refer to
⇒ ["2.5 Bumper Cover, Removing and Installing", page 263](#) .

2 - Towing Eyelet Cap

- ☐ Engaged in bumper cover

3 - License Plate Holder

- ☐ Not installed on all models for all markets.
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

4 - Clips

- ☐ Quantity: 4
- ☐ Different numbers for attaching are possible.

5 - Rear Reflector, Right

- ☐ Secured to bumper cover
- ☐ To be removed only with bumper cover removed

6 - Adapter, Right

- ☐ To be removed only with bumper cover removed. Refer to
⇒ ["2.3.5 Overview - Wheel Housing Liner Bracket Adapter R-Line and R", page 262](#) .

7 - License Plate Lamps

- ☐ Quantity: 2
- ☐ Removing. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; License Plate Lamp .

8 - Diffuser

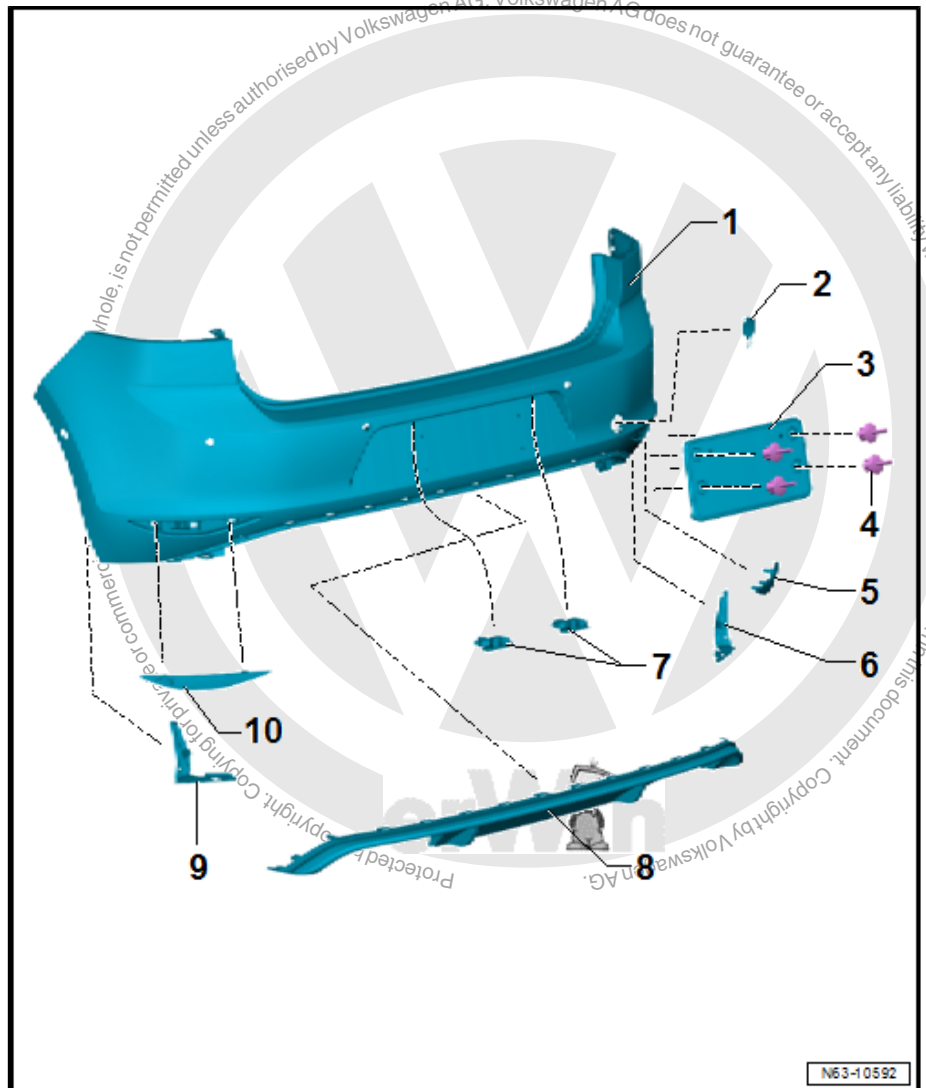
- ☐ Made of PP+EPDM
- ☐ Secured to bumper cover
- ☐ To be removed only with bumper cover removed
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

9 - Adapter, Left

- ☐ To be removed only with bumper cover removed. Refer to
⇒ ["2.3.5 Overview - Wheel Housing Liner Bracket Adapter R-Line and R", page 262](#) .

10 - Rear Reflector, Left

- ☐ Secured to bumper cover
- ☐ To be removed only with bumper cover removed





2.3.5 Overview - Wheel Housing Liner Bracket Adapter "R-Line" and "R"



Note

The illustration shows the procedure for the left side. The procedure for the right side is identical.

1 - Bumper Cover

- ☐ PP/EPDM material
- ☐ Removing and installing. Refer to [⇒ "2.5 Bumper Cover, Removing and Installing", page 263](#).

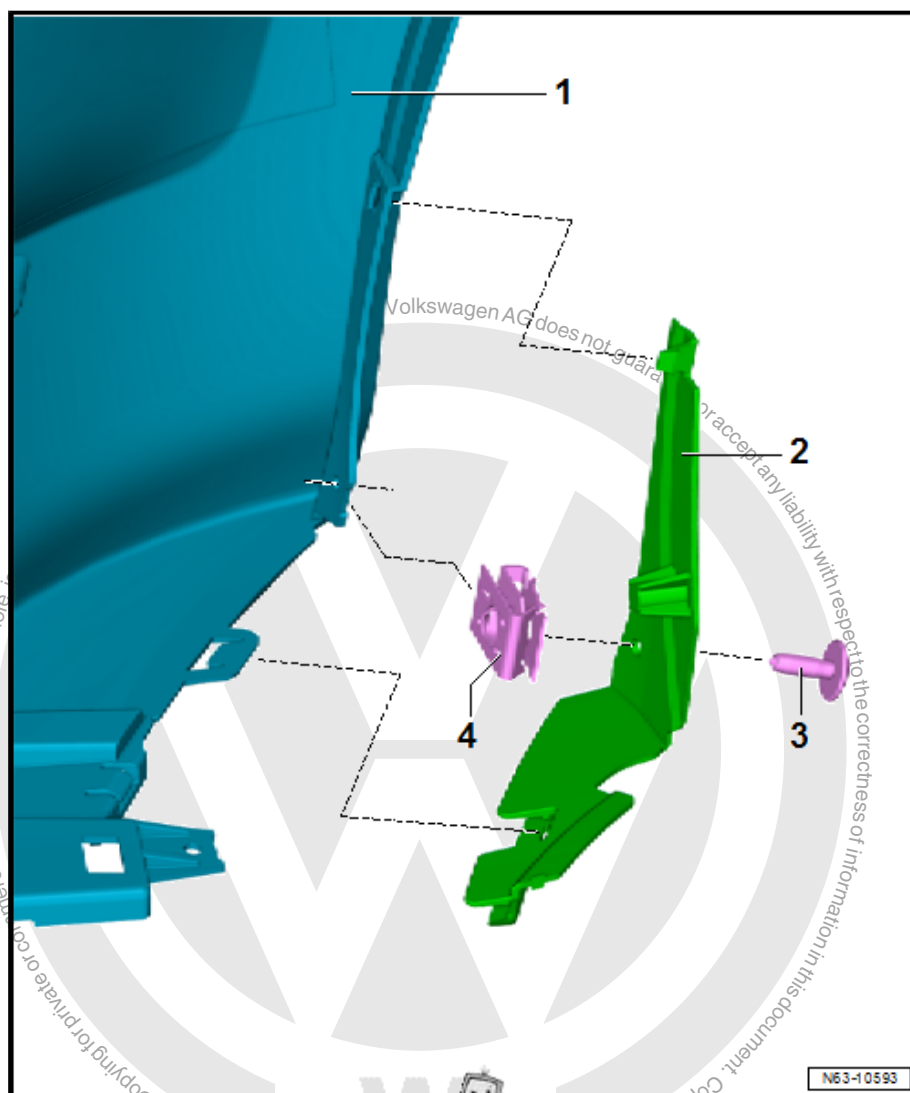
2 - Wheel Housing Liner Bracket Adapter

- ☐ Right and left

3 - Bolt

- ☐ 2.0 Nm

4 - Spring Nut



2.4 Overview - Impact Absorber

Volkswagen R GmbH "R-Line" and "R" optional equipment



1 - Impact Member

- ☐ There are different versions. For allocation. Refer to the Parts Catalog.
- ☐ Removing and installing. Refer to
⇒ ["2.6 Impact Member, Removing and Installing", page 267](#).
- ☐ Vehicles with trailer hitch. Refer to
⇒ ["10.1 Overview - Trailer Hitch", page 402](#).

2 - Bolt

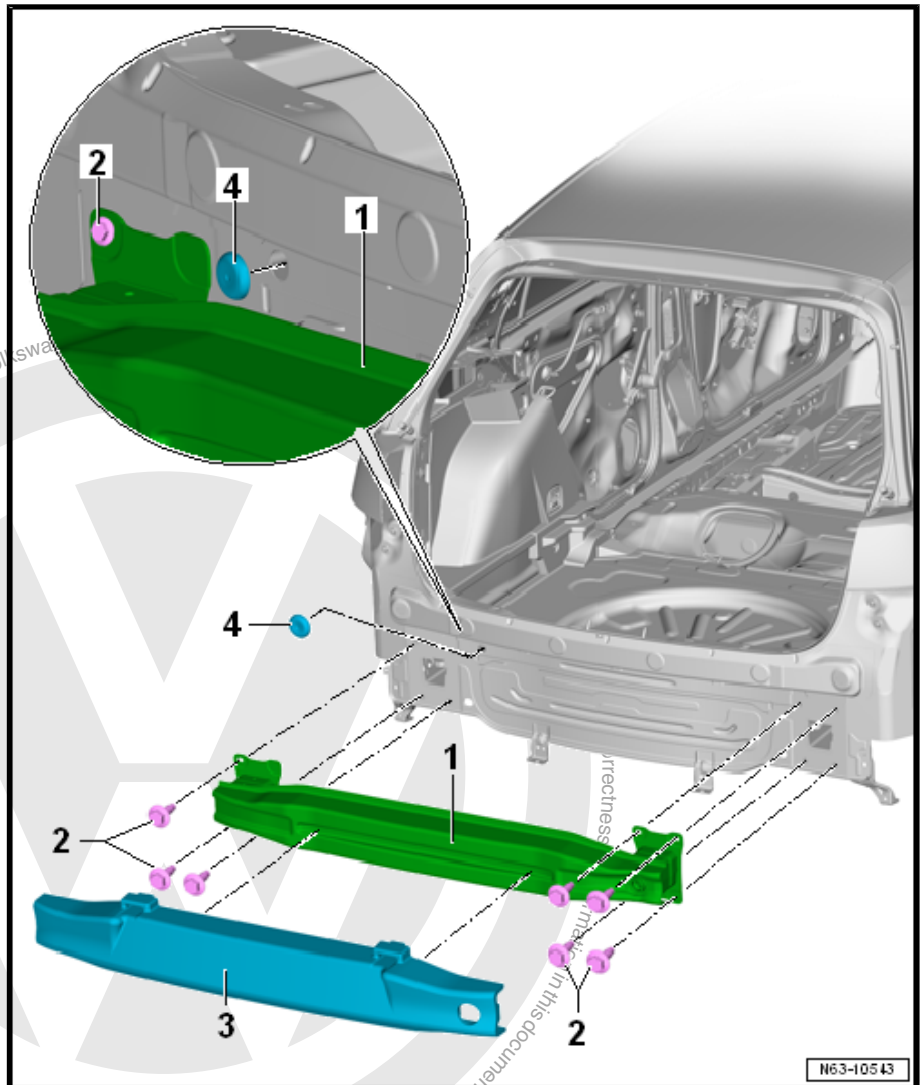
- ☐ Quantity: 4 on right
- ☐ Quantity: 3 on left
- ☐ 20 Nm + 90°

3 - Foam Piece

- ☐ Is engaged with the impact member -1-
- ☐ Not installed on all models for all markets.
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

4 - Cap

- ☐ Not on the trailer hitch



2.5 Bumper Cover, Removing and Installing

Volkswagen R GmbH "R-Line" and "R" optional equipment



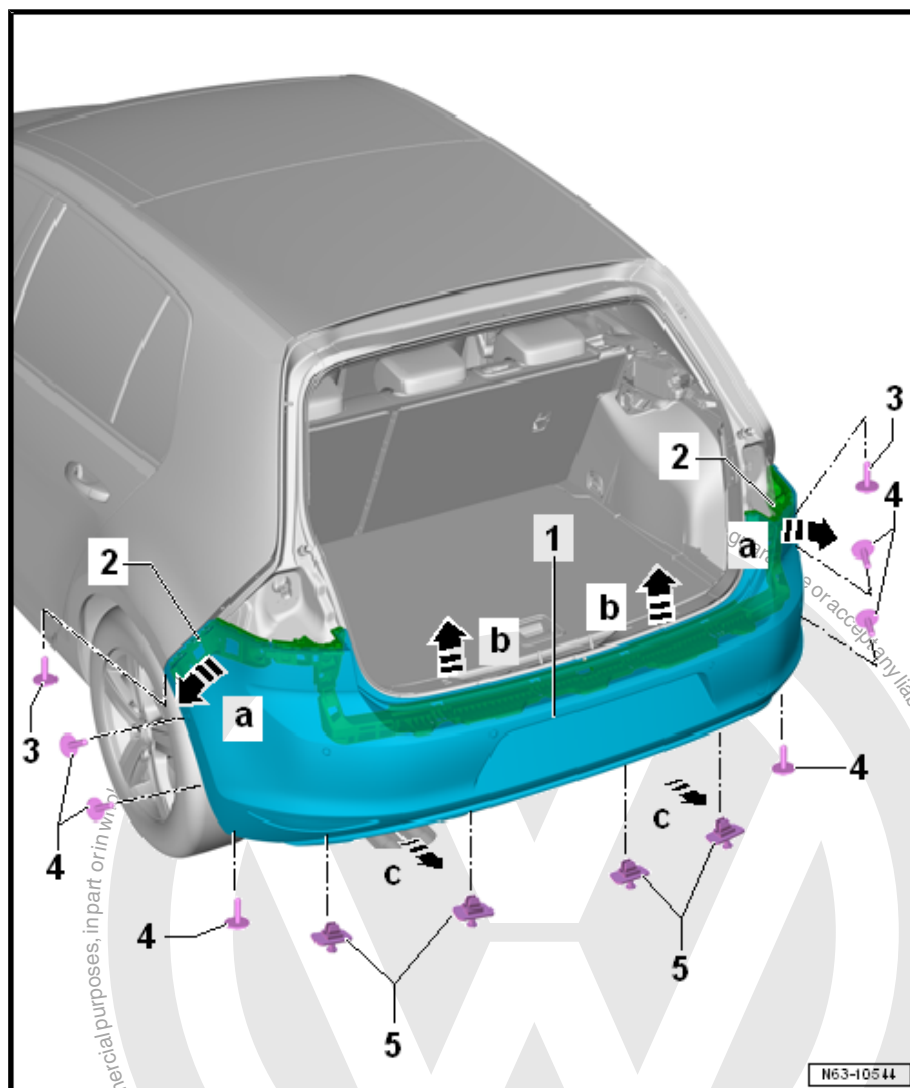
Note

Removing and installing the bumper cover may slightly differ depending on the model.

Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-

Removing



- Remove the tail lamps inside the side panel. Refer to ➤ Electrical Equipment; Rep. Gr. 94 ; Tail Lamps; Tail Lamp, Removing and Installing .
- Remove the left and right bolts -3- inside the wheel housing (facing up).
- Remove the left and right wheel housing liner bolts -4-.
- Remove the expanding rivets -5- from underneath.

A second technician is required for the rest of the removal procedure.

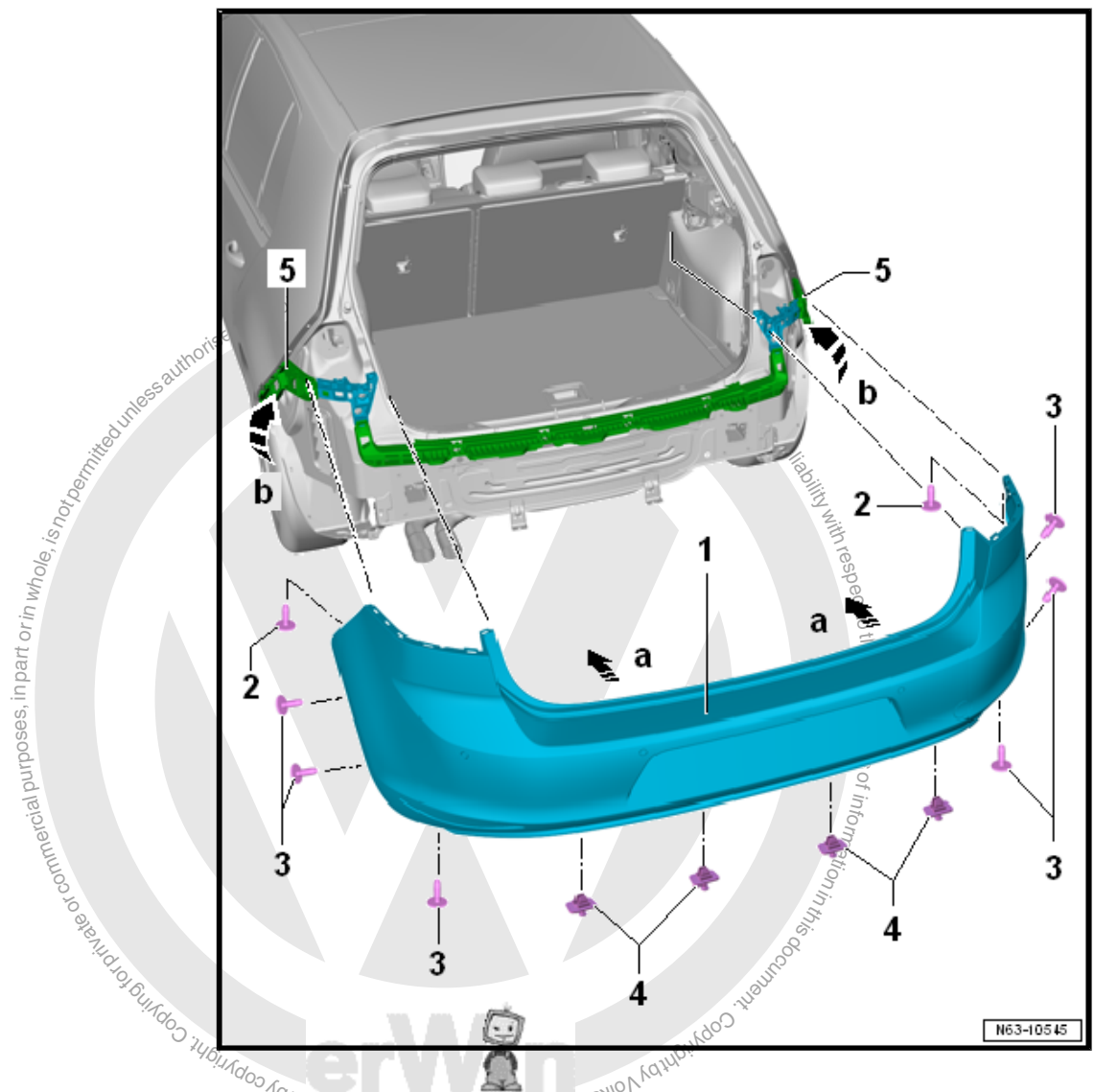
- Remove the bumper cover -1- out of the guides -2- on the left and right sides of the side panel -arrows a-.
- Loosen the bumper cover -1- upward from the catches -b arrows-.
- Remove the bumper cover -1- from the vehicle so that it is parallel -arrows c-.
- Disconnect the connectors from any electric components (if present).

Information regarding the parking aid. Refer to ➤ Electrical Equipment; Rep. Gr. 94 ; Parking Aid .



Information regarding the parallel parking assist. Refer to ➤ Electrical Equipment; Rep. Gr. 94 ; Parallel Parking Assist .

Installing



Installation is only possible with a second technician.

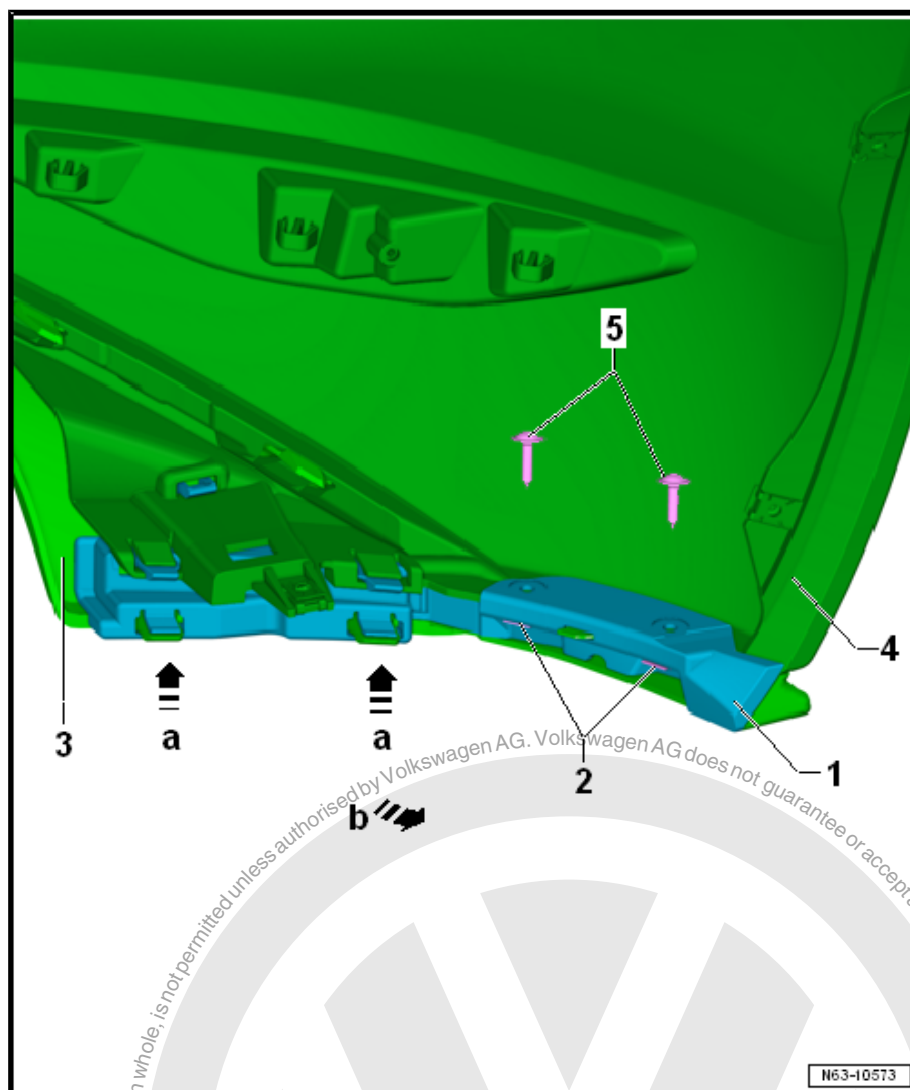
- If equipped, connect the electrical component connections.
- Guide the bumper cover -1- parallel to the vehicle -arrows a-.
- Push the bumper cover -1- into the left and right guides -5- on the side panel until it locks -arrow b-.
- Pay attention to the gap dimensions. Refer to ➤ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .
- Install the expanding rivets -4- from underneath.
- Install the tail lamps inside the side panel. Refer to ➤ Electrical Equipment; Rep. Gr. 94 ; Tail Lamps; Tail Lamp, Removing and Installing .
- Additional step for the GTI and GTD models. Refer to ➤ [page 266](#) .



- Additional step for the "R-Line" and "R" models. Refer to
⇒ ["2.3.5 Overview - Wheel Housing Liner Bracket Adapter R-Line and R", page 262](#) .

Tightening Specifications

Adapter, Removing and Installing



Removing

- Remove the bolts -5-.
- Loosen the catches -a arrows- and the adapter -1- from the spoiler -3- and remove the bumper cover -4- -arrow b-.

Installing

- Check the spring nuts -2-.
- Push the adapter -1- on the bumper cover -4- and engage with the spoiler -3-.
- Tighten the bolts -5-.

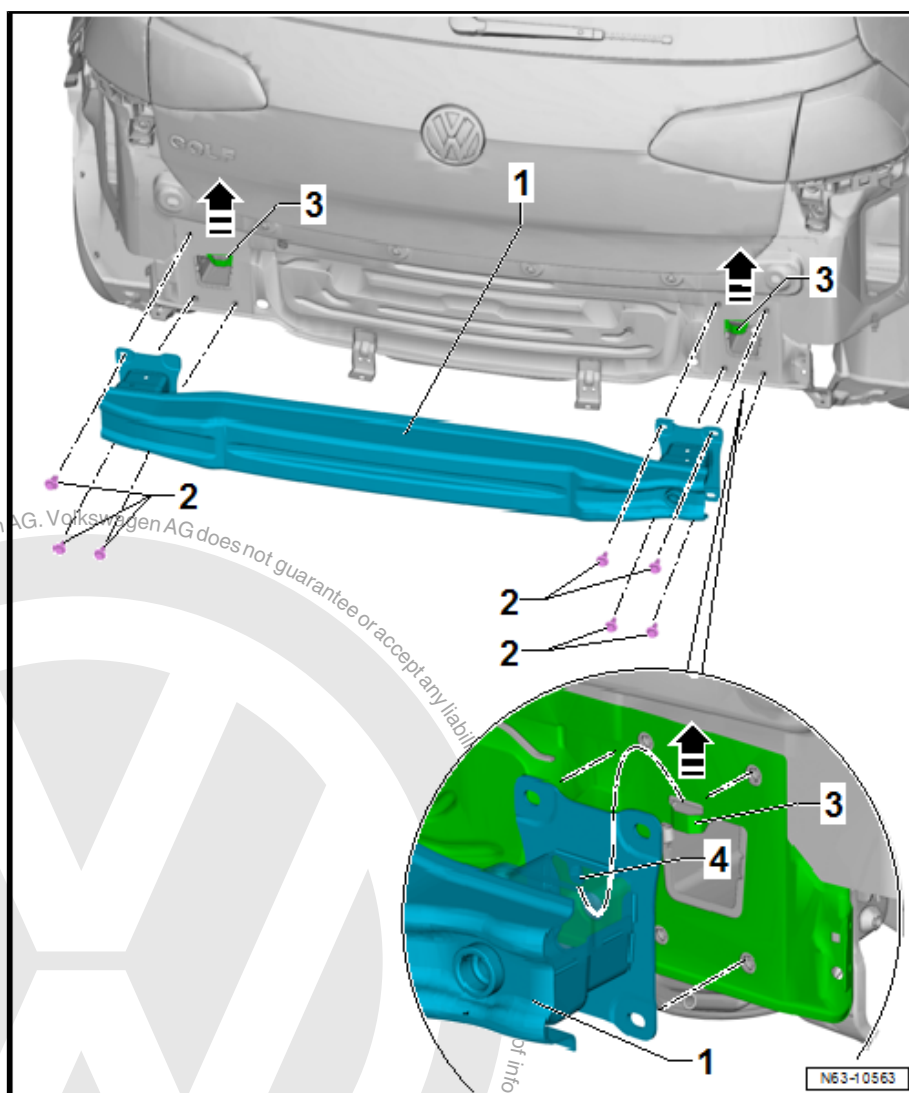


Tightening Specifications

2.6 Impact Member, Removing and Installing

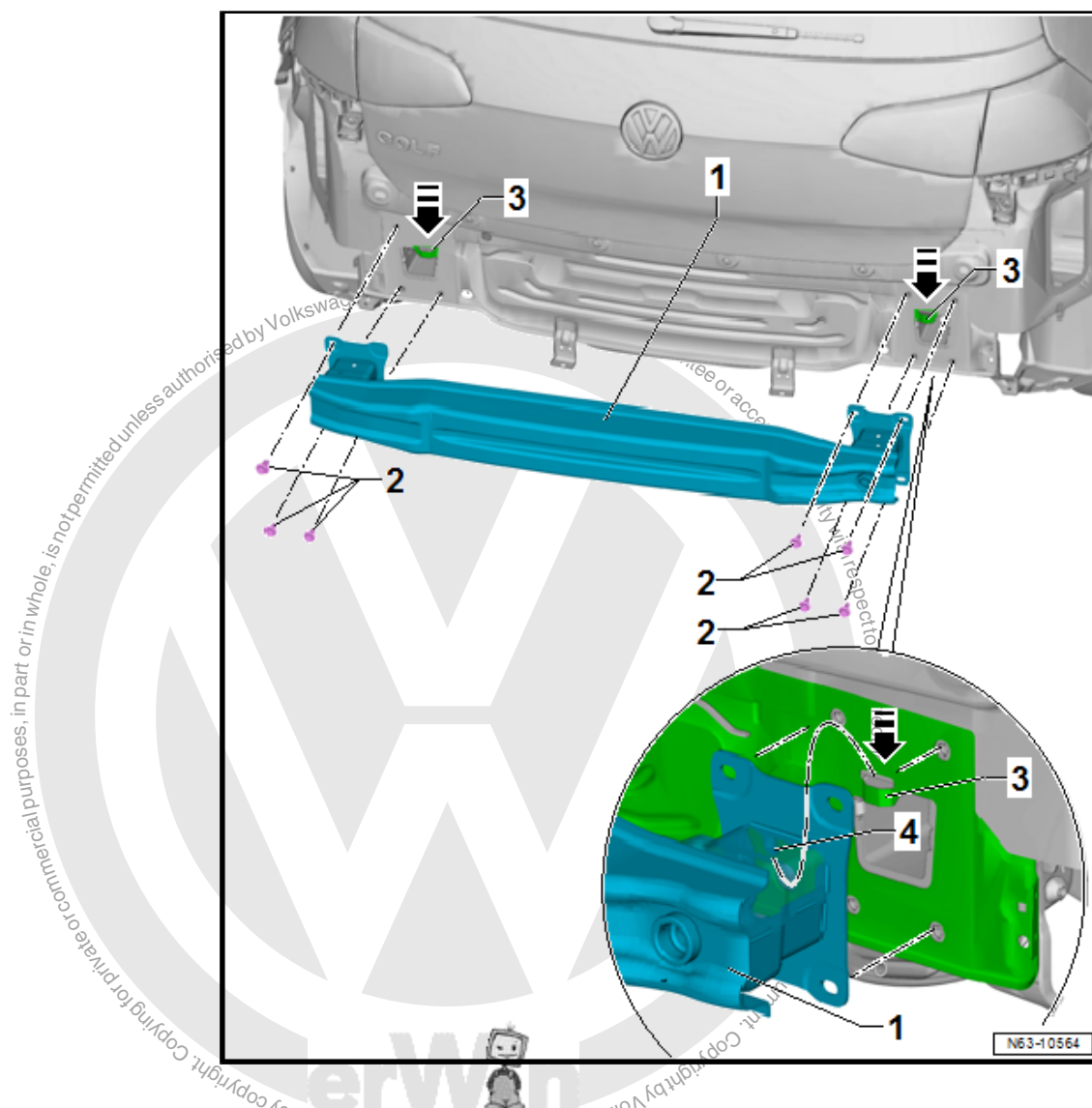
Volkswagen R GmbH "R-Line" and "R" optional equipment

Removing



- Remove the bolts -2-.
- Lift the impact member -1- upward -arrows- from the tabs -3- in the back panel.

Installing



- Guide the impact member -1- with the guides -4- from up downward -arrows- in the tabs -3- in the back panel.
- Tighten the screws -2-.

Tightening Specifications

2.7 Bumper Cover, Servicing



Note

If the bumper cover is damaged, first determine if it is possible to repair the plastic before installing a new cover.

Refer to ⇒ General Information; Body Repairs, Body Collision Repair

2.8 Parking Aid Mount, Installing

Special tools and workshop equipment required

- ◆ Hand Cartridge Gun - VAS5155-
- ◆ PDC Holder Tool Set - VAS6614B-



Materials

- ◆ 2K-Plastic-Adhesive Refer to Parts Catalog
- ◆ Bonding Agent for Plastic Refer to Parts Catalog
- ◆ Cleaning Solution Refer to Parts Catalog
- ◆ Primer Applicator Refer to Parts Catalog



Note

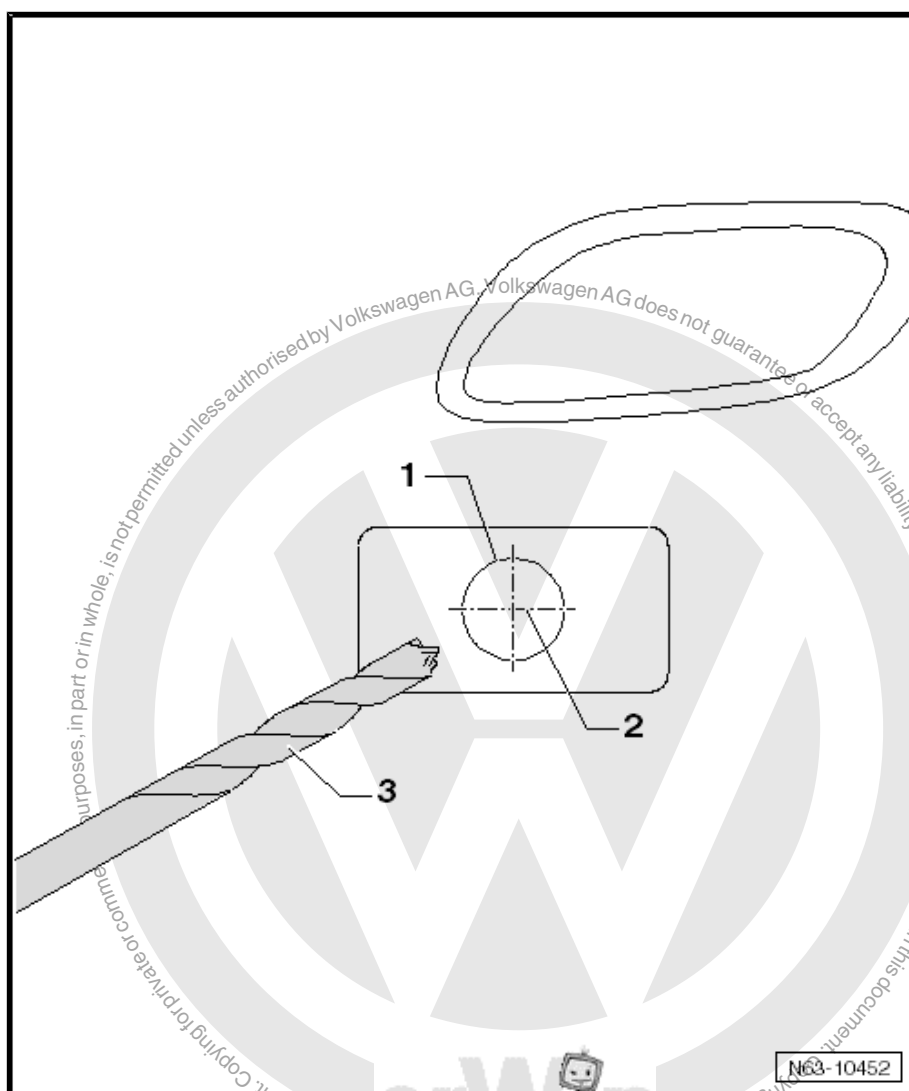
- ◆ *Follow the manufacturer instructions supplied in the packaging.*
- ◆ *Observe minimum curing time.*

Bracket, Installing



Note

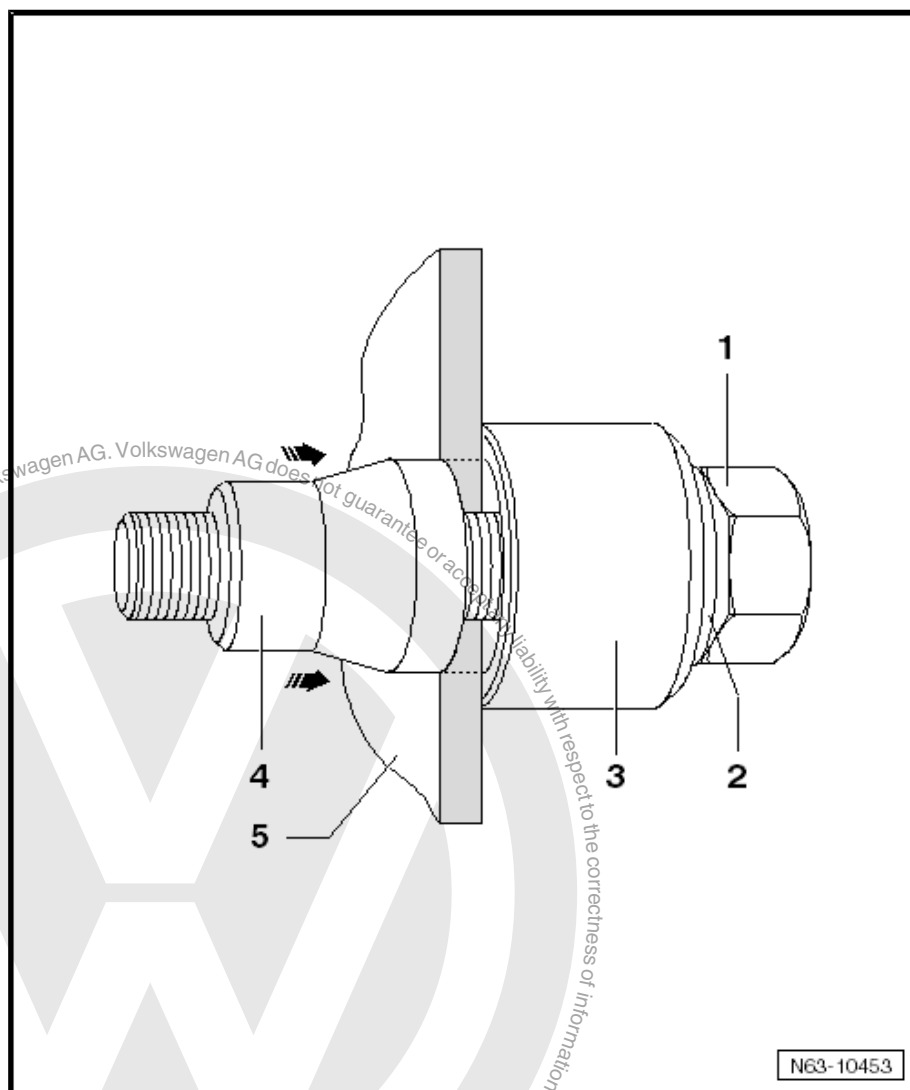
After the bumper cover is painted, install the mount.





The 4 markings for the bracket -1- are found on the inside of the bumper cover.

- Determine the central point -2-, if not already present.
- Drill the holes from inside outward with a tool set and supplied drill -3-.



- Position the hole stamper with the bolt head -1-, washer -2- and counterholder -3- on the inside of the bumper cover -5-.
- Install the iron punch -4- almost up to the bumper cover.
- Push the iron punch -4- on the bumper cover.
- Tighten the hole stamper -1-.



Note

The iron punch -4- cannot rotate on the bumper cover paint.

- By turning on the bolt head -1-, the iron punch -4- is pulled through the bumper cover material -5- -arrows-.
- Remove the hole stamper and stamp the next hole.

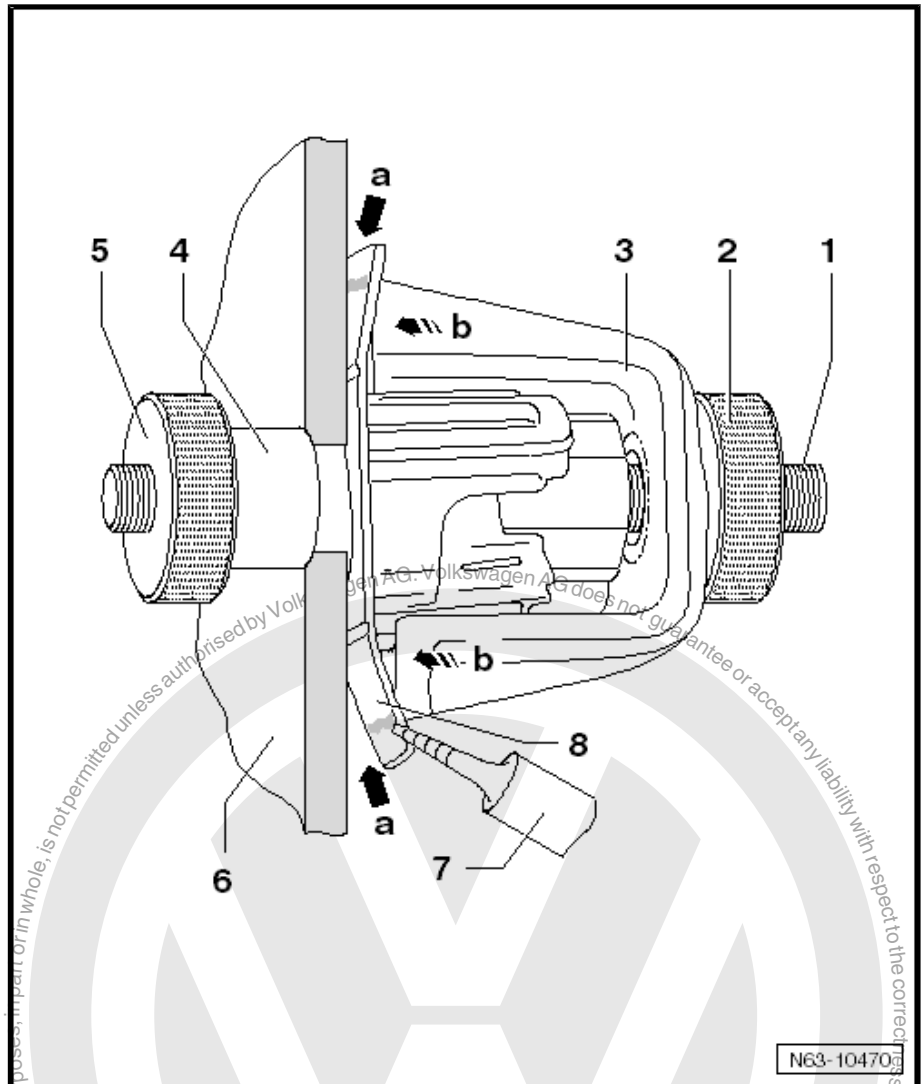


- Always clean the bumper cover and the mount thoroughly with cleaning solution.



Note

Apply no more than approximately 1 cm of adhesive to the top.



- Lightly grind the inside of the bumper cover -6- and thoroughly clean it.
- Thinly apply the bonding agent for the plastic to the bumper cover and mount and let it set for 10 minutes.
- Slide the mount -8- onto the centering drift -1- and push through the bumper cover -6-.
- Remove the counterholder -4- and lightly tighten the knurled nut -5-.
- Remove the clamping clip -3- and position the knurled nut -2-, do not tighten.
- All the mounts are prepared in this way.



Note

The adhesive cannot run up to the bend.

- Apply adhesive as shown in the illustration and tighten the knurled nut -2-.
- After the minimum curing time, remove all centering drifts.

7) Minimum Curing Time

Wait 30 minutes for the minimum curing time before performing any further work on the bumper cover and the mount.

The bumper cover must stay in place and may not be moved during this time.

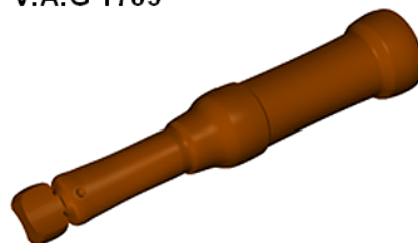


3 Special Tools

Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-

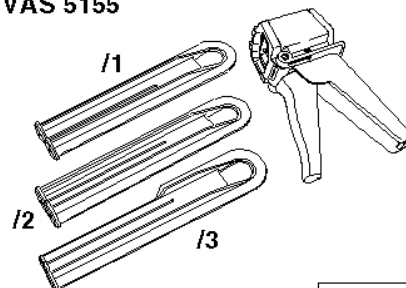
V.A.G 1783



W00-11189

- ◆ Hand Cartridge Gun - VAS5155-

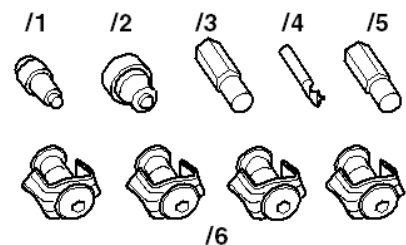
VAS 5155



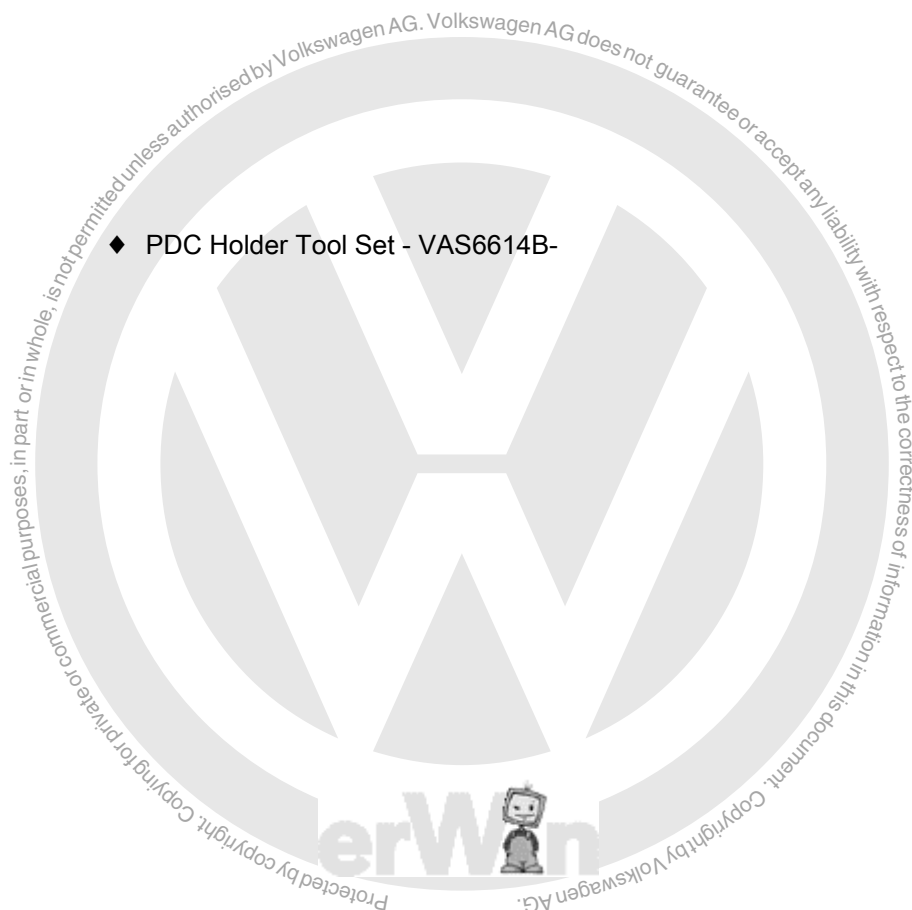
W00-10699

- ◆ PDC Holder Tool Set - VAS6614B-

VAS 6614



W00-10965





64 – Glass, Window Regulators

1 Repair Information

⇒ [“1.1 Minimum Curing Time for Bonded Windows”, page 274](#)

⇒ [“1.2 Window Glass, Servicing”, page 274](#)

⇒ [“1.3 Bonded Window Glass Installation Instructions”, page 275](#)

⇒ [“1.4 Undamaged Window Glass, Preparing for Installation”, page 276](#)

⇒ [“1.5 New Window Glass, Preparing for Installation”, page 277](#)

⇒ [“1.6 Body Flange, Preparing for Installation”, page 278](#)

⇒ [“1.7 Adhesive, Removing”, page 279](#)

1.1 Minimum Curing Time for Bonded Windows



WARNING

There are special requirements for replacing bonded windows. This includes, for example, a newly bonded windshield is safe for vehicle operation also in case of an accident after a specified minimum curing time.

The minimum curing time for 2K window adhesive is 2 hours for all windows.

Curing time means the time from when the window is bonded to when the vehicle is put back into use. During this time, the vehicle must be on a level surface at room temperature (at least 15 °C (59 °F)).



WARNING

The vehicle is operationally ready only after the minimum curing time has elapsed.

1.2 Window Glass, Servicing



Note

- ◆ *If the windshield is damaged, before replacing, see if it is possible to repair the glass.*
- ◆ *Damaged windshields can be repaired with the Window Repair Kit - VAS6092-.*
- ◆ *The damage may not exceed a certain size and location.*
- ◆ *Work instructions are included with every window repair kit.*

Special tools and workshop equipment required

- ◆ Window Repair Kit - VAS6092-



1.3 Bonded Window Glass Installation Instructions

⇒ ["1.3.1 Installation Instructions", page 275](#)

⇒ ["1.3.2 Materials", page 275](#)

1.3.1 Installation Instructions

- Apply adhesive -1- all the way around at a right angle to the glass -2-.

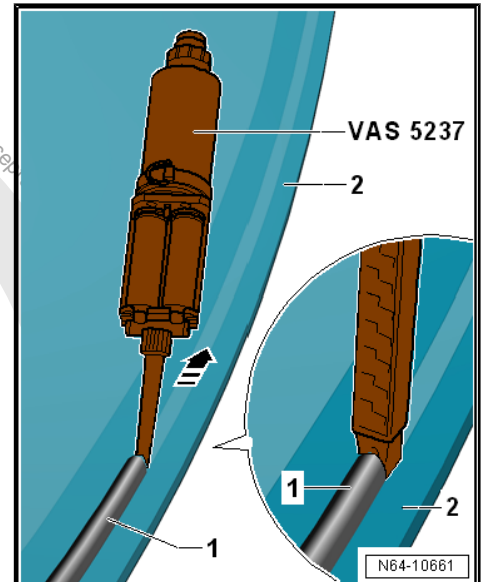


WARNING

Window must be installed within 10 minutes, otherwise bonding properties of window adhesive will be impaired.

Do not apply adhesive bead too thickly and do not press windows too firmly on to body flange. Since windows no longer have a sealing lips, surplus adhesive can be seen in gap area.

- ◆ With help of two Double Suction Lifter - VAG1344- install window in window opening, center and press in onto the spacing lip.
- ◆ Apply any stickers (for example, for airbag).



1.3.2 Materials



Note

For the part numbers for the different materials, Refer to the Parts Catalog.

- ◆ 2K window adhesive Refer to #1 ⇒ [page 276](#) . Refer to #2 ⇒ [page 276](#) . Refer to #3 ⇒ [page 276](#) . Refer to #6 ⇒ [page 276](#)
- ◆ 1K Window Adhesive Refer to #1 ⇒ [page 276](#) . Refer to #2 ⇒ [page 276](#) . Refer to #4 ⇒ [page 276](#) Refer to #5 ⇒ [page 276](#) Refer to #6 ⇒ [page 276](#)
- ◆ Activator Refer to #1 ⇒ [page 276](#) Refer to #6 ⇒ [page 276](#)
- ◆ Glass primer/paint primer Refer to #1 ⇒ [page 276](#) Refer to #6 ⇒ [page 276](#) .
- ◆ Cleaning Solution Refer to #1 ⇒ [page 276](#) Refer to #6 ⇒ [page 276](#) .
- ◆ Primer Applicator Refer to #1 ⇒ [page 276](#) Refer to #6 ⇒ [page 276](#) .
- ◆ Adhesive Remover Refer to #1 ⇒ [page 276](#) Refer to #6 ⇒ [page 276](#) .
- ◆ Cutting wire 357 853 999 Refer to #6 ⇒ [page 276](#) . Refer to #7 ⇒ [page 276](#)



◆ Cutting Tool for Bonded Windows - Wire Reel VAS6452/1 Refer to # 7
⇒ [page 276](#)

◆ Cutting wire 6888/1 Refer to # 7
⇒ [page 276](#)

1 Follow the manufacturer instructions supplied in the packaging.

2 Note the minimum curing time. Refer to
⇒ ["1.1 Minimum Curing Time for Bonded Windows", page 274](#)

3 To apply this material the Double Cartridge Gun - VAS5237- must be used.

4 Heat according to manufacturer's instructions using Grindstone Holder - VAG1939A-

5 Small 180 ml cartridge for sealing and/or when a 400 ml double cartridge is not enough.

6 For the part numbers of the different materials. Refer to the Parts Catalog.

7 Cutting cord and cutting wires are an alternative These are meant to be used one time only.

1.4 Undamaged Window Glass, Preparing for Installation

Adhesive Bead, Cutting



WARNING

Keep the adhesive surface free of dirt and grease.

Do not yet treat the cut adhesive surface with the activator. Do not prime. Do not use a cleaning solution.



Note

- ◆ When reusing an undamaged window, cut the remaining adhesive sealant back to 1 to 2 mm shortly before rebonding. Do not damage the primer and ceramic coating.
- ◆ The remaining material acts as a base for the new adhesive to be applied.



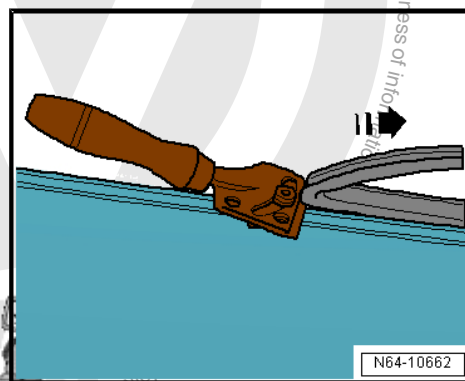
WARNING

Exception: If the bonding is going to be performed longer than one day after cutting back the adhesive bead, then the remaining material must be activated with the Activator .

Apply the activator evenly in one stroke using the Applicator .

Do not let the activator come in contact with the paint because this will damage the paint.

Drying time is approximately 10 minutes





1.5 New Window Glass, Preparing for Installation



Note

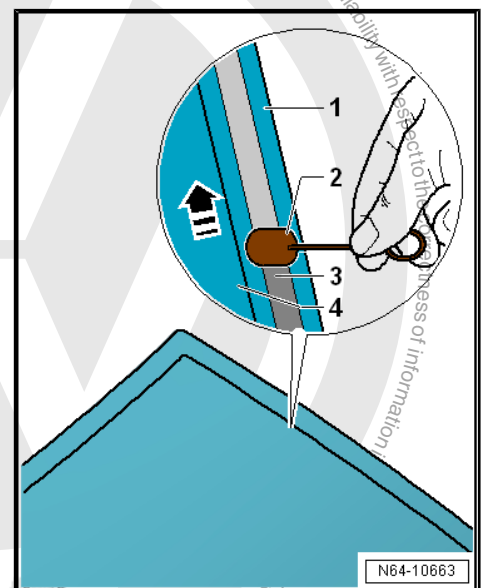
- ◆ *The application area for adhesive bead is not pre-coated and not primed.*
- ◆ *The sealing lip is part of a new windshield.*
- ◆ *Not all windows are pre-coated.*
- Clean window circumference to width of 20 mm all around using Cleaning Solution - D 009 401 04- .
- Then dry the edge of the window with a lint-free cloth.

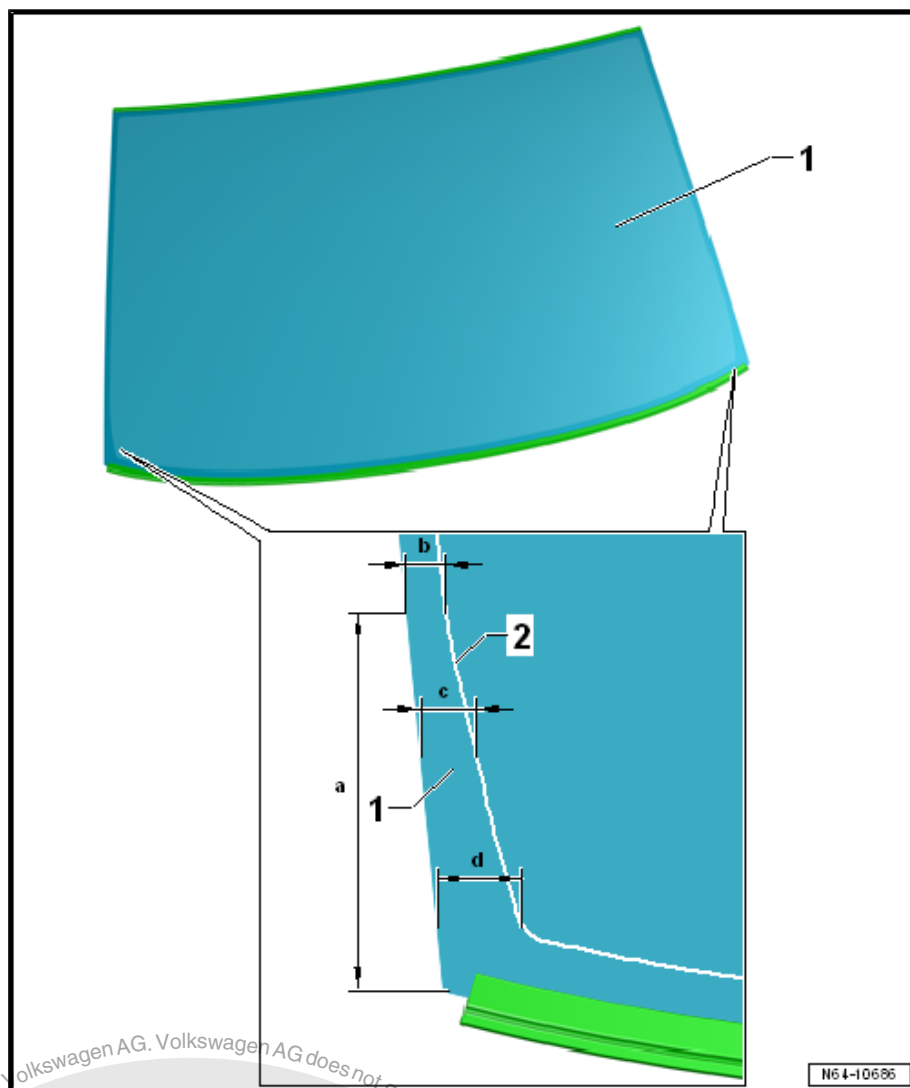


WARNING

The ceramic coating on the glass is not a glass/paint primer. The ceramic layer must be primed before the applying the adhesive sealing. Use only glass/paint primer D 009 200 02.

- Apply primer -2- evenly in one stroke using Applicator - D 009 500 25- -1-.
- ◆ Drying time is approximately 10 minutes





Note

At the bottom the windshield the distance of the glass/paint primer and the adhesive bead to the opening for the window changes.

- Up to 150 mm -dimension a- the lower edge of the windshield is 6 mm -dimension b- to the outer edge.
- From there to radius the distance grows to 20 mm -dimension d-.
- Apply the dimension 10 mm -dimension c- to approximately half the distance.

1.6 Body Flange, Preparing for Installation



WARNING

Keep the adhesive surface free of dirt and grease.

Do not yet treat the cut adhesive surface with the activator. Do not prime. Do not use a cleaning solution.



- Cut back remaining material on the body flange using U-Shape Scraper - VAG1561/3- , but do not remove all residue under any circumstance.



Note

The remaining material acts as a base for the new adhesive to be applied. Keep adhesive surfaces free of dirt and grease.



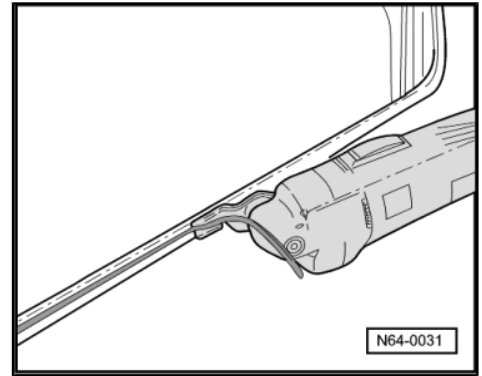
WARNING

Exception: If the bonding is going to be performed longer than one day after cutting back the adhesive bead, then the remaining material must be activated with the Activator .

Apply the activator evenly in one stroke using the Applicator .

Do not let the activator come in contact with the paint because this will damage the paint.

Drying time is approximately 10 minutes



- ◆ If the window flange is being repair or partially replaced, the corresponding area must be clean and primed again before painting.



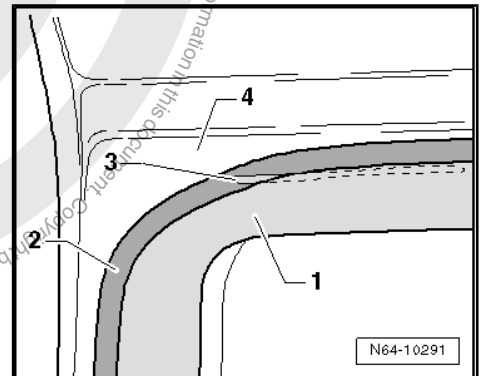
Note

It is possible that the laser weld seam does not lie in the area of the adhesive bead. In this case, the open weld seam must be sealed with window adhesive before bonding the window.

- If the adhesive -1- does not cover the laser weld seam -3- on the sheet metal flange -4-, then coat it -3- with Glass/Paint Primer - D 009 200 02- -3-. Afterwards, fill the laser weld seam with Window Adhesive - DH 009 100 A2- -1-.

Paint Damage, Repairing

The paint structure after paint damage is reproduced according to the repair manual "Paint".



1.7 Adhesive, Removing

- Use Adhesive Remover - D 002 000 10- as cleaning solution. The safety precautions must be adhered to when working.



WARNING

When cleaning from vehicle interior out, the window just installed must not be pressed outward.

- Wipe the paint surfaces with a clean cloth. Clean any remaining dirt with Adhesive Removal Solution - D 002 000 10- .



- Clean the plastic trim: let the adhesive sealant harden for approximately 1 hour and then peel it off.



2 Windshield

⇒ [“2.1 Overview - Windshield”, page 281](#)

⇒ [“2.2 Windshield, Removing and Installing”, page 282](#)

2.1 Overview - Windshield

1 - Windshield

- ❑ Removing and installing. Refer to
⇒ [“2.2 Windshield, Removing and Installing”, page 282](#).

2 - PUR Adhesive Sealant

- ❑ Bead diameter:
-Width b- = 7 mm
-Height a- Height = 10 mm (including the pre-coating, residual material on the window and the window flange)
- ❑ Minimum curing time
Refer to
⇒ [“1.1 Minimum Curing Time for Bonded Windows”, page 274](#).

3 - Body Flange

- ❑ Paint damage, repairing. Refer to ⇒ Paint; Rep. Gr. 00

4 - Drip Rail

5 - Gap Dimension

- ❑ Must be even

6 - Seal

7 - Communication Window

- ❑ Only with tinted glass

8 - Window Adjuster

- ❑ 443 845 631 A
- ❑ Remove 2 hours after installing the windshield

9 - Retainer

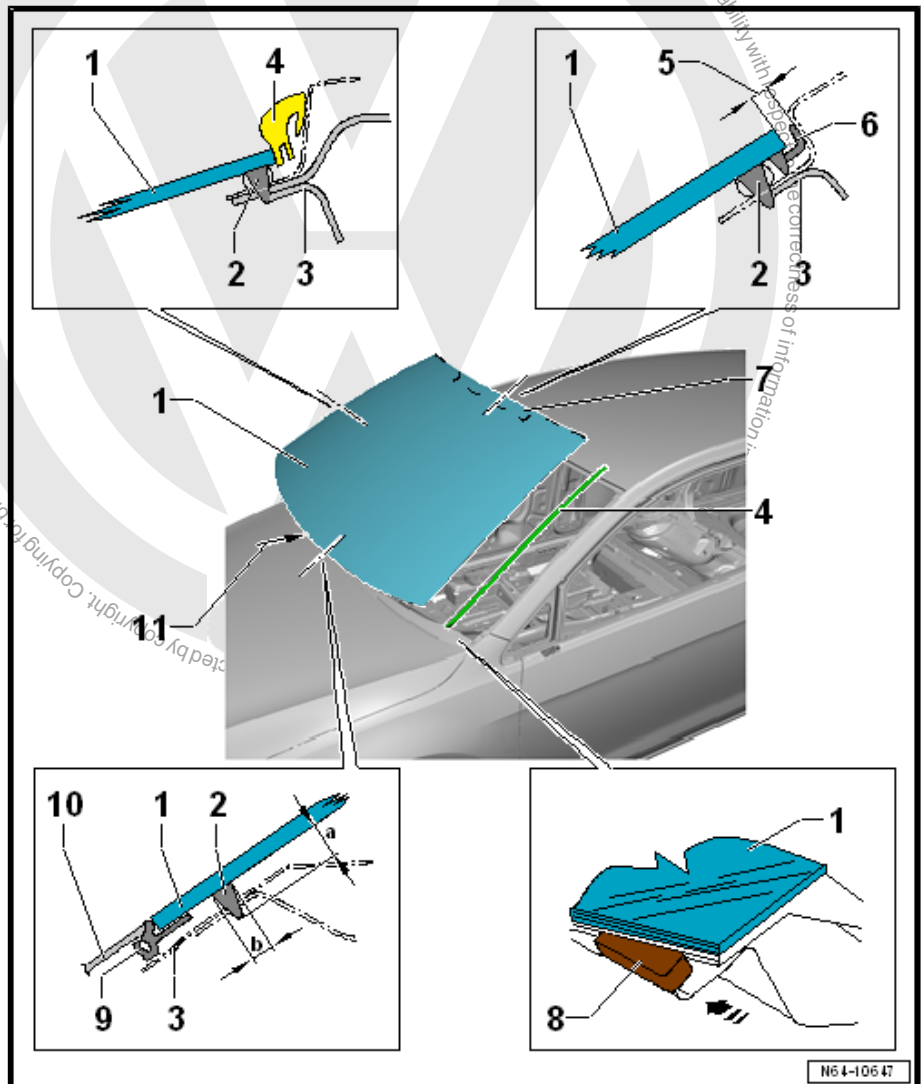
- ❑ Is a part of the windshield

10 - Plenum Chamber Cover

- ❑ Must only be pulled out of binding profile by hand.
- ❑ Removing and installing. Refer to ⇒ [“3.4 Plenum Chamber Cover, Removing and Installing”, page 22](#).

11 - Connector

- ❑ For the windshield defogger.



N6 4-106 47



2.2 Windshield, Removing and Installing

⇒ [“2.2.1 Windshield, Removing and Installing”, page 282](#)

⇒ [“2.2.2 Damaged Windshield, Removing”, page 288](#)

2.2.1 Windshield, Removing and Installing



Note

- ♦ *Removing bonded windows is described in Flush Bonded Window Kit - VAG1474 B- .*
- ♦ *The Cutting Tool for Bonded Windows - VAS6452- can also be used.*
- ♦ *The Bearing Installer - Differential Bearing - VAS6888- can also be used.*

Special tools and workshop equipment required

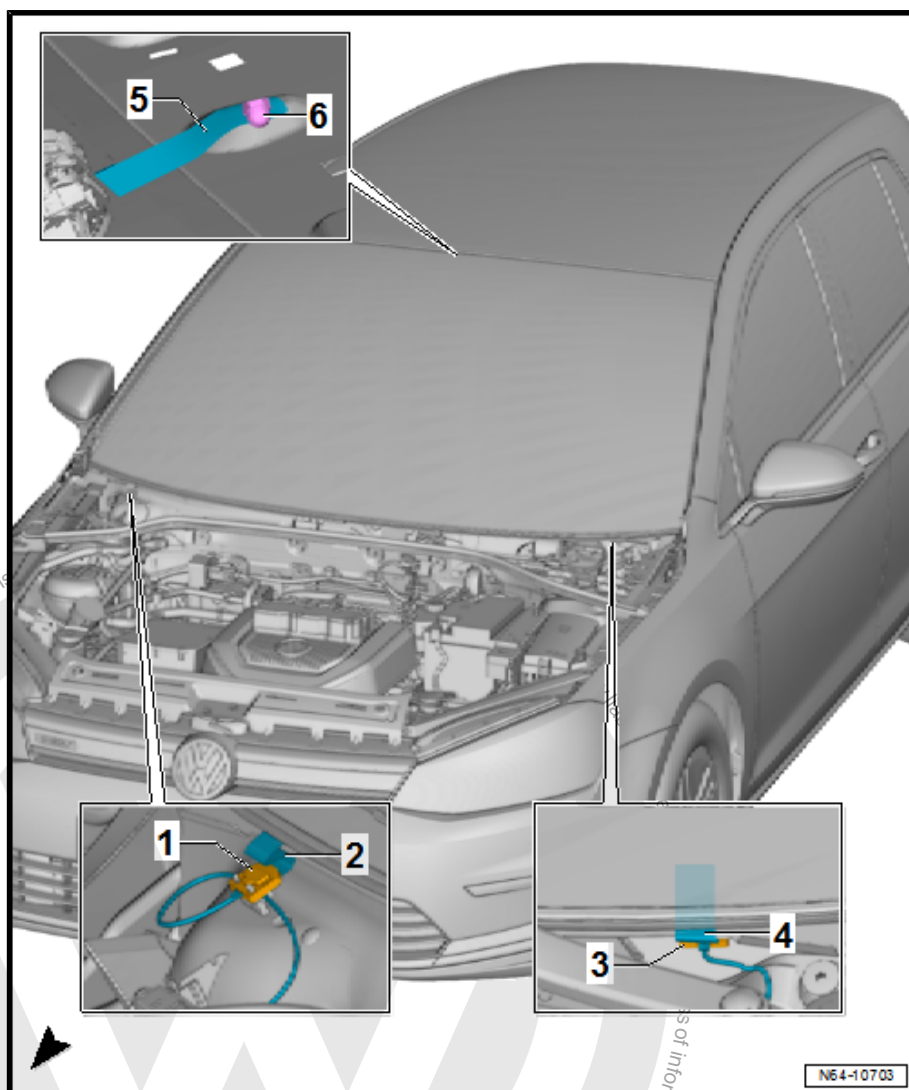
- ♦ Flush Bonded Window Kit - VAG1474 B- or Cutting Tool for Bonded Windows - VAS6452-
- ♦ Double Suction Lifter - VAG1344-
- ♦ Bonded Window Tool Kit - VAG1351-
- ♦ Window Removing Kit - VAG1755-
- ♦ Cartridge Gun - VAG1628-
- ♦ Grindstone Holder - VAG1939-
- ♦ Window Cutter - VAG1561 A-
- ♦ Window Cutter - Saw Blade - VAG1561/2-
- ♦ Window Cutter - Saw Blade - VAG1561/8-
- ♦ Gauge - Gap Adjustment - 3371-
- ♦ Window Cutter - Blade (2 pc.) - VAG1561/19-
- ♦ Double Cartridge Gun - VAS5237-

Removing

- Remove the A-pillar upper left and right trim. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Passenger Compartment Trim; A-Pillar Trim Panel, Removing and Installing .
- Remove the left and right sun visors. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Equipment; Sun Visor, Removing and Installing .
- Remove the interior rearview mirror. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Interior Rearview Mirror; Interior Rearview Mirror, Removing and Installing .
- For vehicles with a Driver Assistance Systems Front Camera - R242- , remove the front camera. Refer to ⇒ Electrical Equipment; Rep. Gr. 96 ; Driver Assistance Systems Front Camera; Driver Assistance Systems Front Camera, Removing and Installing .
- Lower the headliner near the windshield. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Roof Trim Panels; Headliner, Removing and Installing .
- The headliner can now be lowered far enough so that windshield can be cut out without damaging headliner.



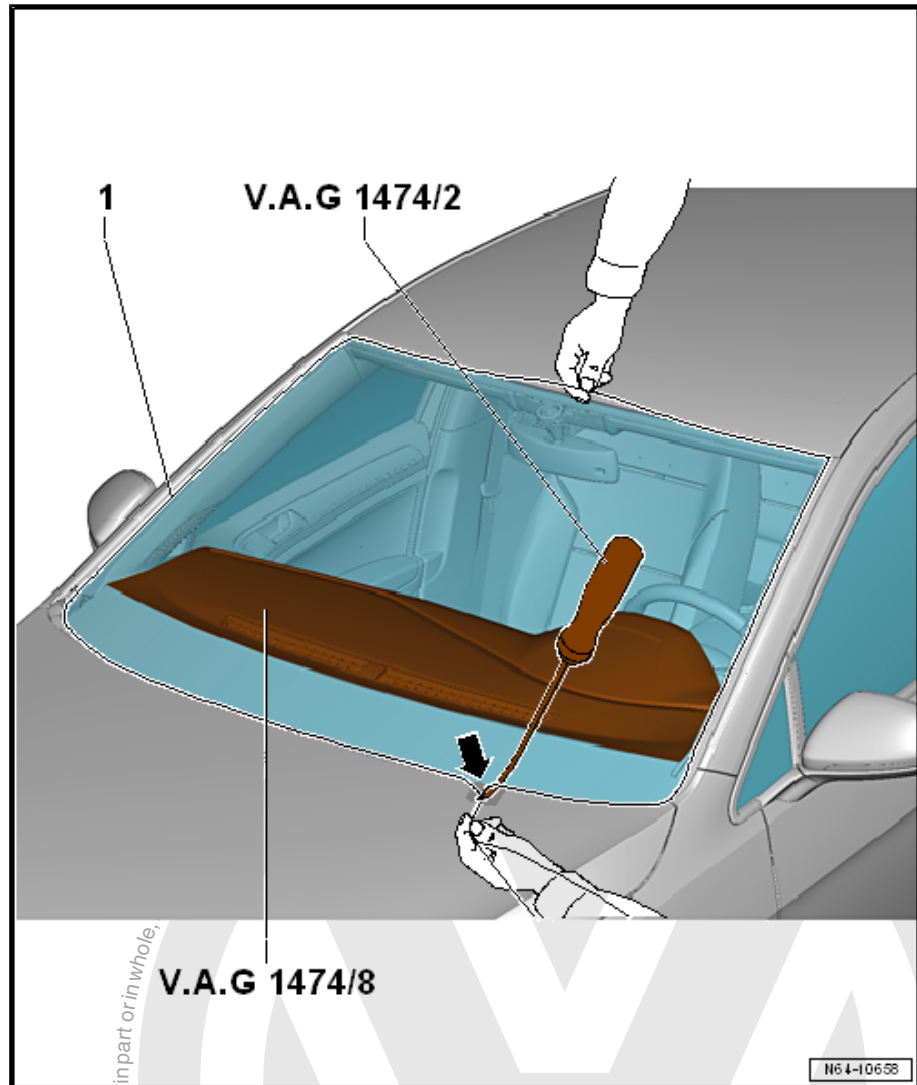
- Remove the plenum chamber cover. Refer to
⇒ [“3.4 Plenum Chamber Cover, Removing and Installing”](#),
[page 22](#) .



For vehicles with a windshield defogger

- Remove the hex nut -6- and attach the wire -5- to the windshield.
- Disconnect the connectors -1 and 3-.
- Attach the wires -2 and 4- to the windshield.

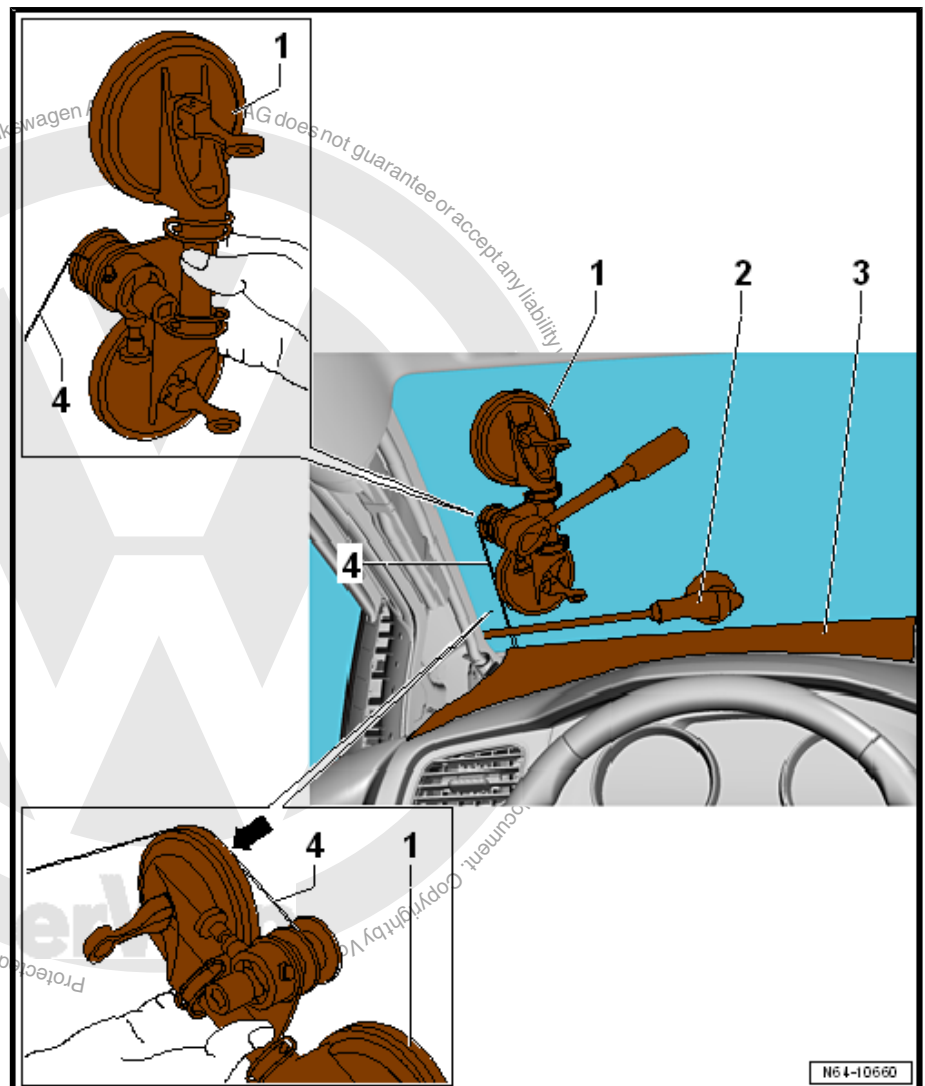
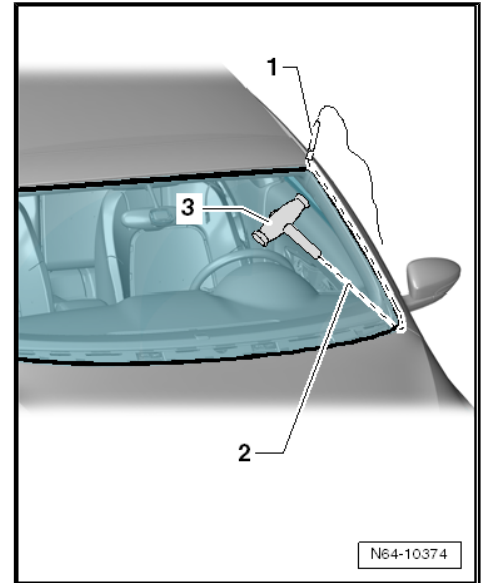




- Install the Cover for Audi A4 Dash Panel - VAG1474/8- between the windshield and the instrument panel.
- Pull the cutting wire -1- with the Flush Bonded Window Kit - Awl - VAG1474/2- through the adhesive inside the passenger compartment.



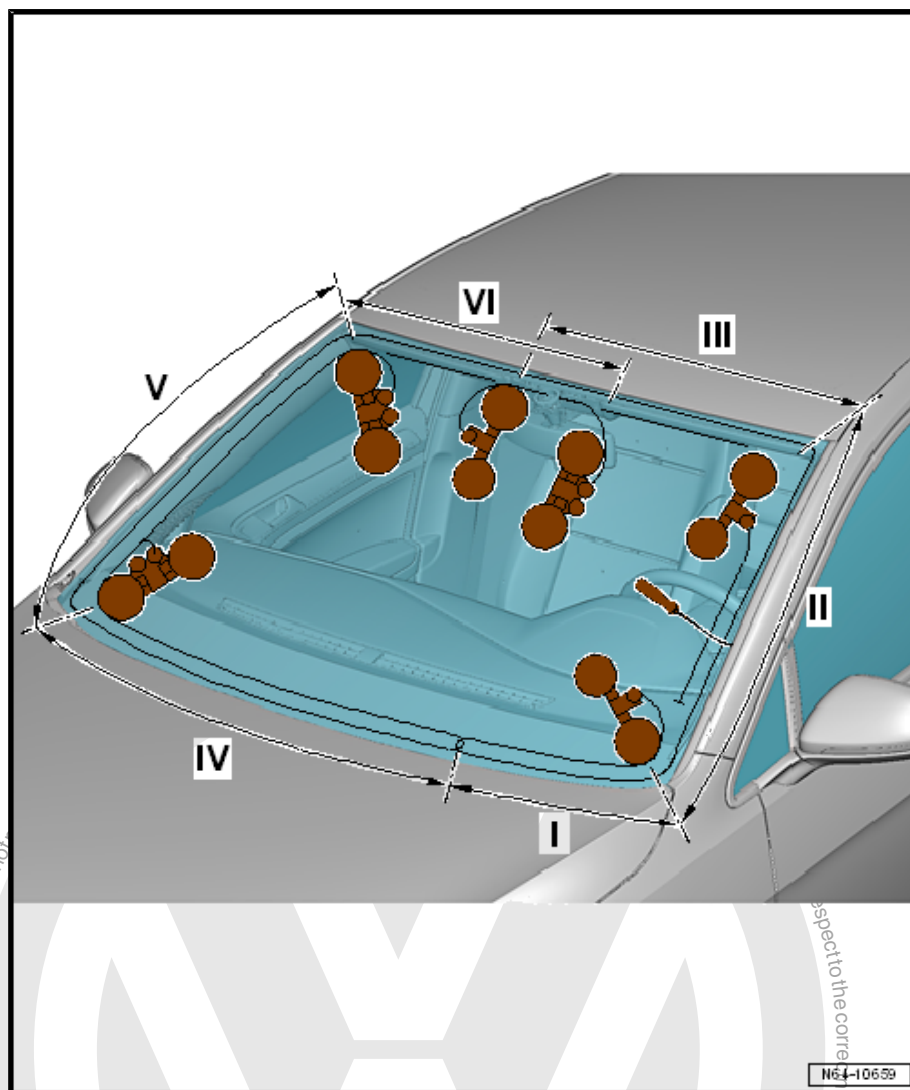
- Secure the cutting wire end from being pulled out using the Bonded Window Tool Kit - Pull Handle - VAG1351/1- -3-.
- Insert cutting cord -2- into window flange using small tube -1-.
- Lay the cutting cord around windshield.
- Make sure that the cutting wire is inserted under windshield at corners.



- Secure the thread ends -4- on the Cutting Tool for Bonded Windows - VAS6452- -1-.



- Place the cutting wire on the reel device suction cups -arrow-.
- While cutting free, press cutting cord against window using plastic wedge -2- in order to have clearance from window flange and instrument cluster.



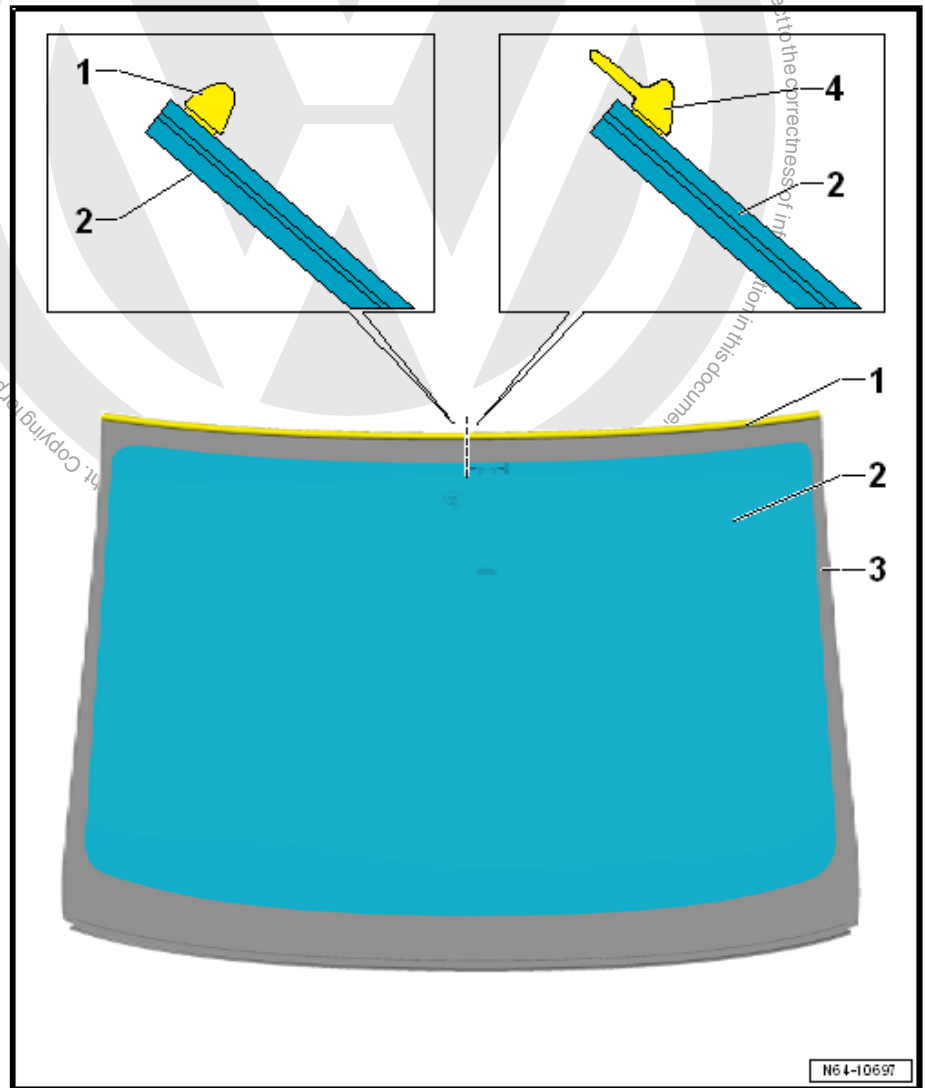
- Install the Cutting Tool for Bonded Windows - VAS6452- in the lower corner of the windshield.
- Place the left Cutting Tool for Bonded Windows - VAS6452- in order from “position I” to “position III” and cut free the windshield.
- Place the right Cutting Tool for Bonded Windows - VAS6452- in order from “position IV” to “position VI” and cut free the windshield.
- Using two Double Suction Lifter - VAG1344- lift the windshield from the vehicle.

Installing



Note

- ◆ As an original equipment part, the windshield is delivered with the spacers.
- ◆ The spacers -1- remain installed in vehicles without a panorama sunroof.
- ◆ The seal -4- must be installed in vehicles with a panorama sunroof.



- Remove the spacer -1- with the seal.
- Bond the seal -4- on the edge of the windshield.
- For vehicles with a Driver Assistance Systems Front Camera - R242- install the front camera. Refer to ⇒ Electrical Equipment; Rep. Gr. 96 ; Driver Assistance Systems Front Camera; Driver Assistance Systems Front Camera, Removing and Installing and calibrate the front camera. Refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; Driver Assistance Systems Front Camera; Driver Assistance Systems Front Camera, Calibrating .



- Prepare the undamaged window for glazing. Refer to
⇒ [“1.4 Undamaged Window Glass, Preparing for Installation”,
page 276](#) .
- Prepare the new window for glazing. Refer to
⇒ [“1.5 New Window Glass, Preparing for Installation”,
page 277](#) .
- Prepare the window flange for glazing. Refer to
⇒ [“1.6 Body Flange, Preparing for Installation”, page 278](#) .
- Installing. Refer to
⇒ [“1.3 Bonded Window Glass Installation Instructions”,
page 275](#) .
- Minimum curing time. Refer to
⇒ [“1.1 Minimum Curing Time for Bonded Windows”,
page 274](#) .

2.2.2 Damaged Windshield, Removing

The procedure for removing a damaged windshield is identical to removing a damaged rear window. Refer to
⇒ [“3.2.2 Damaged Rear Window, Removing”, page 293](#)





3 Rear Window

⇒ ["3.1 Overview - Rear Window", page 289](#)

⇒ ["3.2 Rear Window, Removing and Installing", page 290](#)

3.1 Overview - Rear Window

1 - Rear Window

- ❑ Removing and installing. Refer to
⇒ ["3.2 Rear Window, Removing and Installing", page 290](#)

2 - PUR Adhesive Sealant

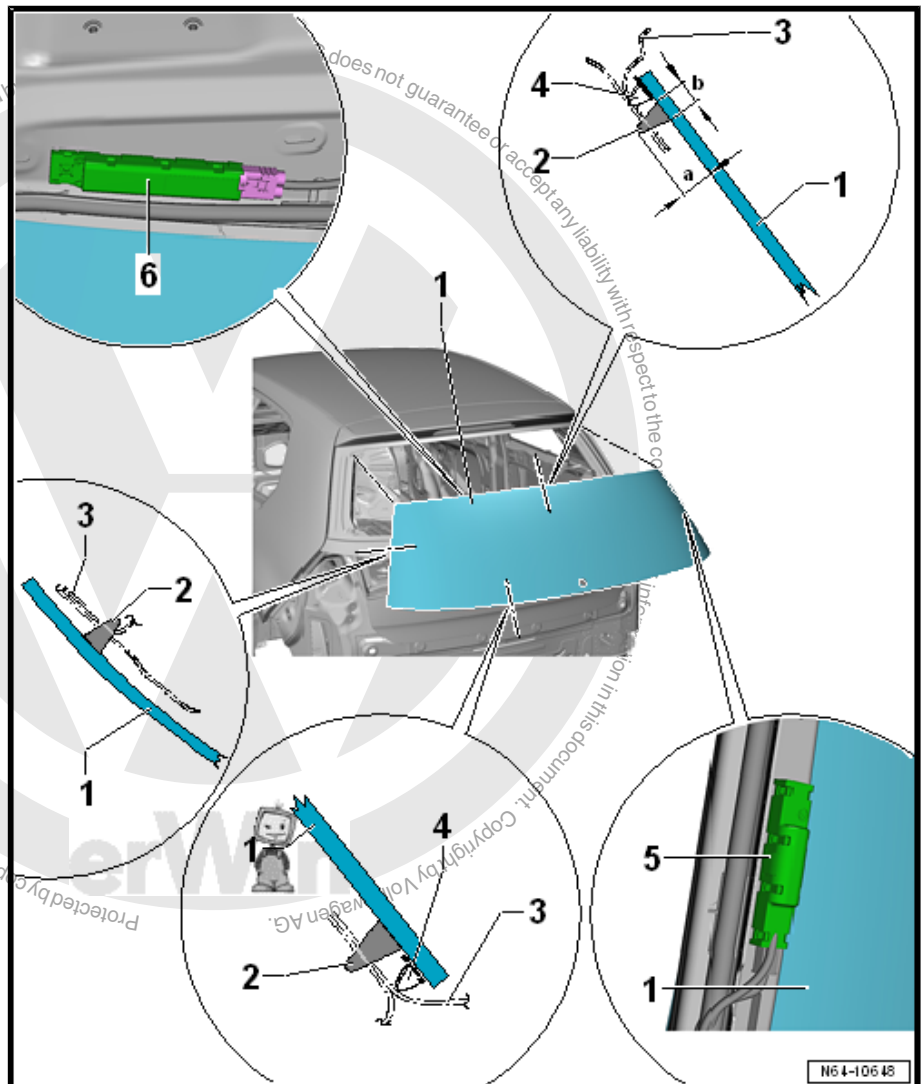
- ❑ Bead diameter:
-Width $b = 7$ mm
-Height a - Height = 10 mm (including the pre-coating, residual material on the window and the window flange)
- ❑ Minimum curing time. Refer to
⇒ ["1.1 Minimum Curing Time for Bonded Windows", page 274](#)

3 - Body Flange

4 - Spacer

5 - Rear Window Defroster Connection

6 - Antenna Connection





3.2 Rear Window, Removing and Installing

⇒ [“3.2.1 Rear Window, Removing and Installing”, page 290](#)

⇒ [“3.2.2 Damaged Rear Window, Removing”, page 293](#)

3.2.1 Rear Window, Removing and Installing



Note

- ◆ *Removing bonded windows is described in Flush Bonded Window Kit - VAG1474 B- .*
- ◆ *The Cutting Tool for Bonded Windows - VAS6452- can also be used.*
- ◆ *The Bearing Installer - Differential Bearing - VAS6888- can also be used.*

Special tools and workshop equipment required

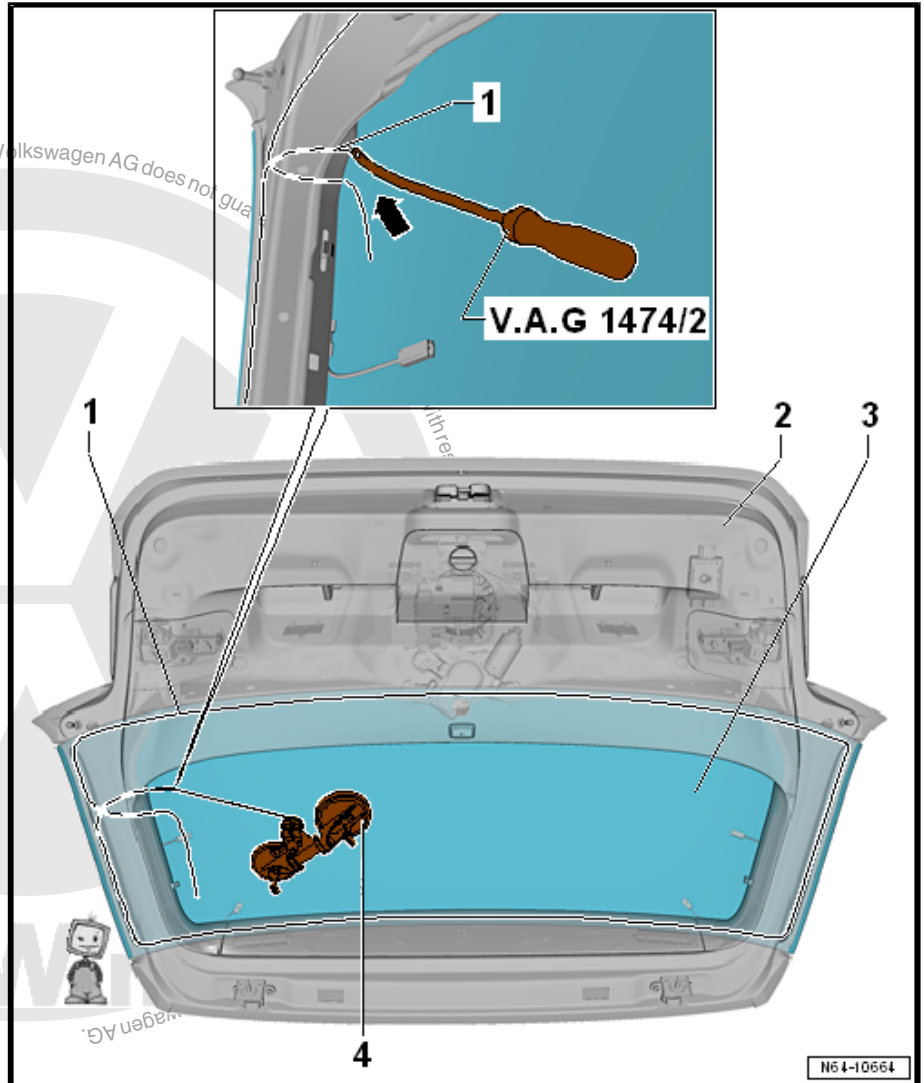
- ◆ Flush Bonded Window Kit - VAG1474 B- or Cutting Tool for Bonded Windows - VAS6452-
- ◆ Double Suction Lifter - VAG1344-
- ◆ Bonded Window Tool Kit - VAG1351-
- ◆ Window Removing Kit - VAG1755-
- ◆ Cartridge Gun - VAG1628-
- ◆ Grindstone Holder - VAG1939-

Removing



Note

If windshield is to be used again, make sure that electrical connections for windshield heating are not damaged.

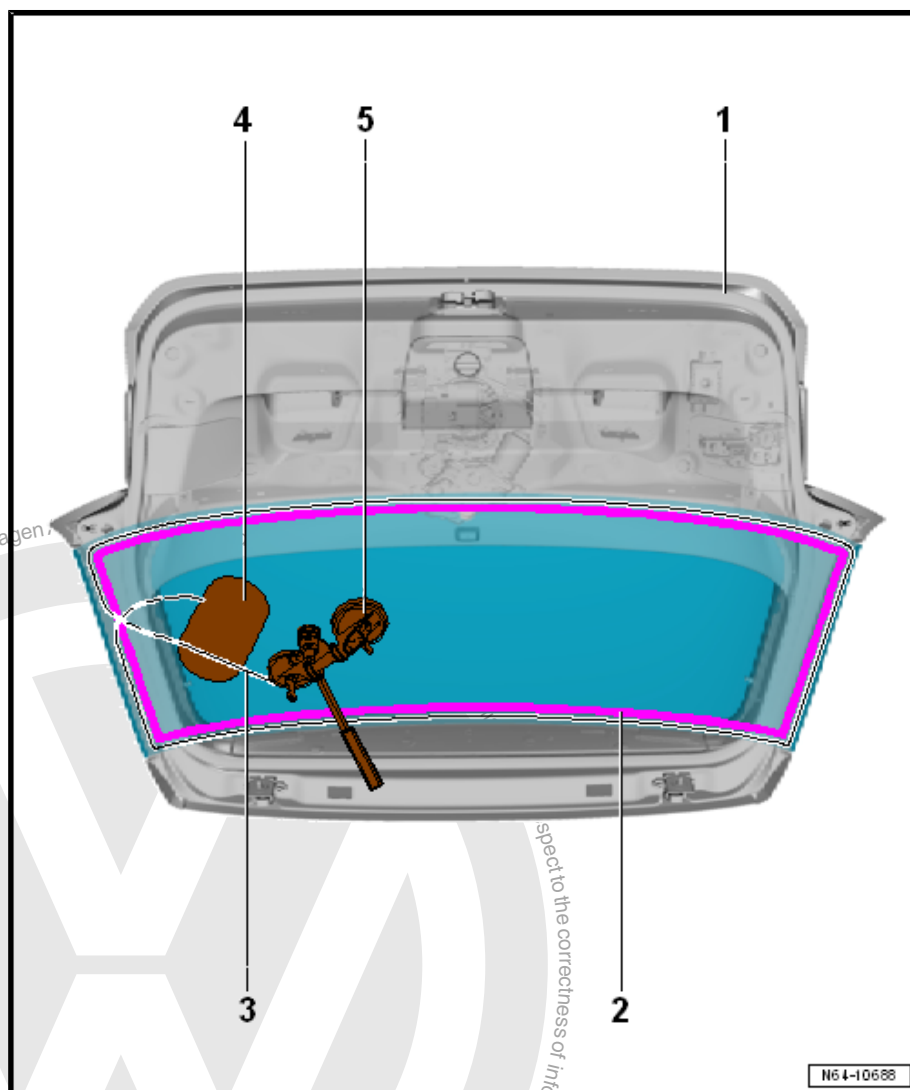


- On vehicles with spoiler on the edge of the roof or a side spoiler on the rear window, these must be removed beforehand.
- Remove the spoiler on the edge of the roof: Refer to [⇒ "2 Spoiler", page 321](#) . Remove the side spoiler: Refer to [⇒ "2 Spoiler", page 321](#)
- Remove connections for heated rear window and window antennas.
- Pull the cutting wire -1- with the Flush Bonded Window Kit - Awl - VAG1474/2- on the position shown in the illustration -arrow- inside through adhesive.
- Secure the cutting wire end with the Bonded Window Tool Kit - Pull Handle - VAG1351/1- prior to removal.
- Lay the cutting wire around the rear window and guide the second cord end toward the inside.
- Secure the cutting wire on the Cutting Tool for Bonded Windows - VAS6452- or the Window Reel Device - VAG1654 A- .



Note

The protective film or the Flush Bonded Window Kit - Plastic Trim - VAG1474/15- must be used to protect the positioned sheet metal flange.



- Push the protective film -4- or the Flush Bonded Window Kit - Plastic Trim - VAG1474/15- carefully between the rear window and the sheet metal flange.
- Position the Window Reel Device - VAG1654 A- as shown.
- Move the Window Reel Device - VAG1654 A- according to position required and cut the rear window free at the top to both sides.
- While cutting free, press cutting cord -3- against window using plastic Flush Bonded Window Kit - Wedge (5 pc.) - VAG1474/5- in order to have clearance from the body flange.
- Cut free the rear window at the bottom.
- Hold the rear window with two suction lifter when cutting free.



Caution

More force will be needed because in the lower area of the rear window two adhesive beads will be cut through.

- Remove the rear window at the two suction lifters from the rear window.

Installing

- Prepare the undamaged window for glazing. Refer to [⇒ "1.4 Undamaged Window Glass, Preparing for Installation", page 276](#).
- Prepare the new window for glazing. Refer to [⇒ "1.5 New Window Glass, Preparing for Installation", page 277](#).
- Prepare the window flange for glazing. Refer to [⇒ "1.6 Body Flange, Preparing for Installation", page 278](#).
- Installing. Refer to [⇒ "1.3 Bonded Window Glass Installation Instructions", page 275](#).
- Minimum curing time. Refer to [⇒ "1.1 Minimum Curing Time for Bonded Windows", page 274](#).
- Install the spoiler on the edge of the roof (refer to [⇒ "2 Spoiler", page 321](#)) and install the new side spoiler (refer to [⇒ "2 Spoiler", page 321](#)).

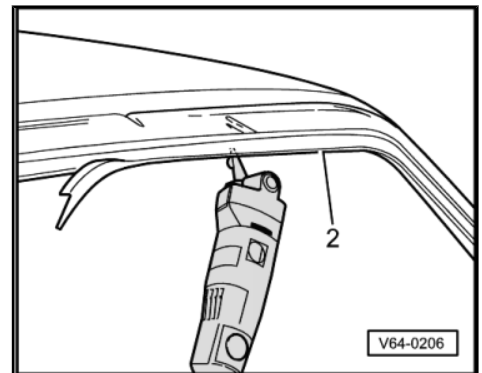
3.2.2 Damaged Rear Window, Removing

- Protect body and interior from glass splinters.
- Remove glass pieces from adhesive material.
- Remove harness connectors for glass defroster and antenna.
- Bond flange -2- all around with fabric reinforced adhesive tape.
- Cut the adhesive (with glass residue) in the window opening with the Window Cutter - VAG1561 A- and the Window Cutter - VAG1561-.



WARNING

Always wear protective goggles and leather gloves.



4 Side Windows

⇒ ["4.1 Overview - Front Side Window", page 294](#)

⇒ ["4.2 Overview - Rear Side Window", page 295](#)

⇒ ["4.3 Front Side Window, Removing and Installing", page 295](#)

⇒ ["4.4 Rear Side Window, Removing and Installing", page 297](#)

4.1 Overview - Front Side Window

1 - Centering Clip

2 - Clamp

- ❑ Quantity: 2

3 - Front Side Window

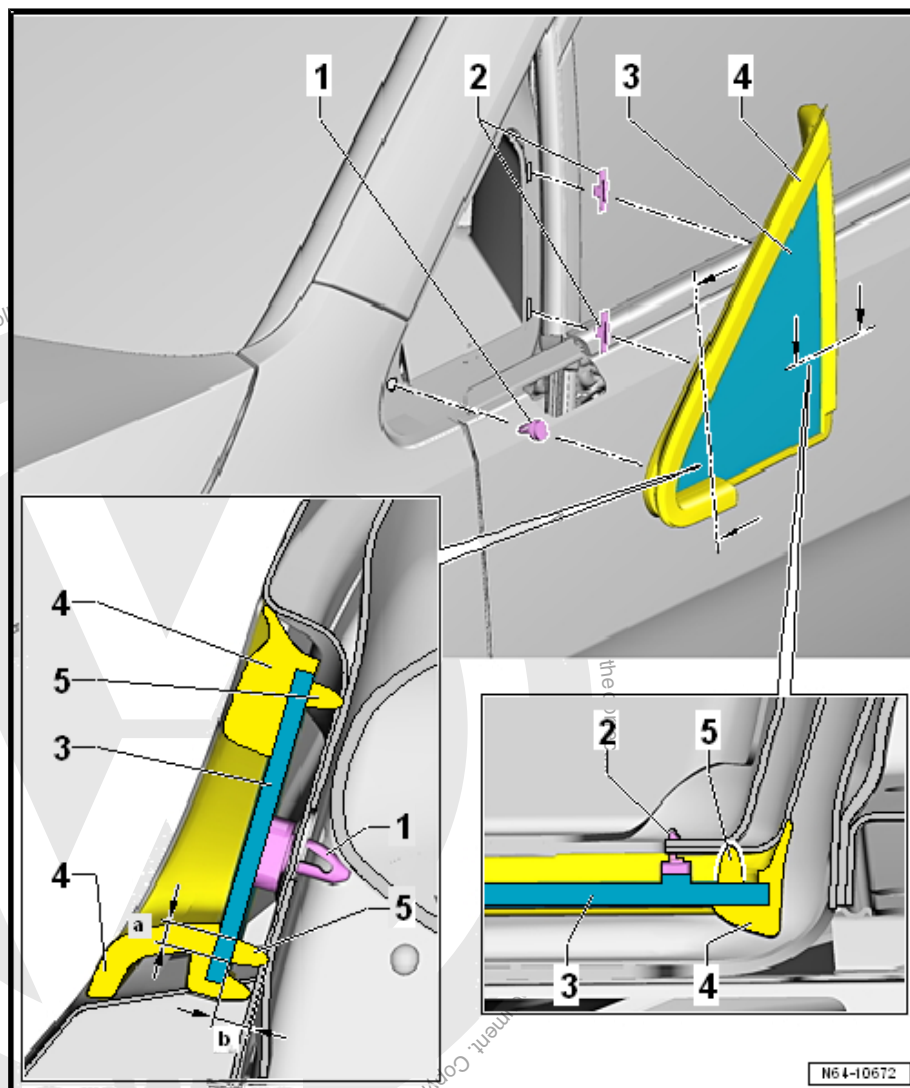
- ❑ Front Side Window, Removing. Refer to
⇒ ["4.3 Front Side Window, Removing and Installing", page 295](#).

4 - Seal

- ❑ Component part of front side window.

5 - PUR Adhesive Sealant

- ❑ Bead cross section:
width = 6.5 mm
-dimension a- height =
10 mm -dimension b-
(including residual material on window glass
and window flange)
- ❑ Minimum curing time.
Refer to
⇒ ["1.1 Minimum Curing Time for Bonded Windows", page 274](#).





4.2 Overview - Rear Side Window

1 - Rear Side Window

- ❑ Rear Side Window, Removing. Refer to
⇒ [“4.4 Rear Side Window, Removing and Installing”, page 297](#).

2 - Seal

- ❑ Is a component of the rear side window.

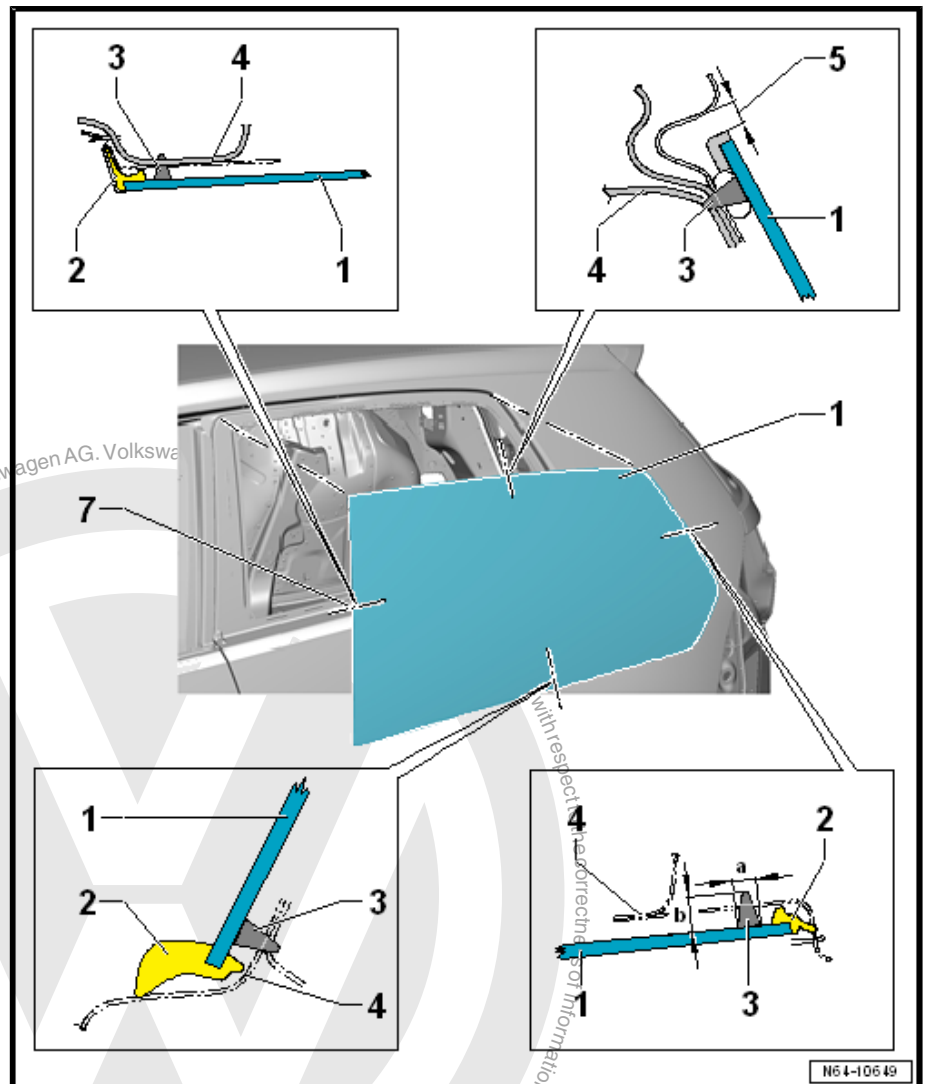
3 - PUR Adhesive Sealant

- ❑ Bead diameter: Height = 10 mm -dimension b-
width = 6.5 mm
-dimension a- (including pre-coating, residual material on window glass and window flange)
- ❑ Minimum curing time. Refer to
⇒ [“1.1 Minimum Curing Time for Bonded Windows”, page 274](#).

4 - Body Flange

5 - Gap Dimension

- ❑ Must be applied evenly.



4.3 Front Side Window, Removing and Installing

⇒ [“4.3.1 Front Side Window, Removing and Installing”, page 295](#)

⇒ [“4.3.2 Damaged Front Side Window, Removing”, page 297](#)

4.3.1 Front Side Window, Removing and Installing



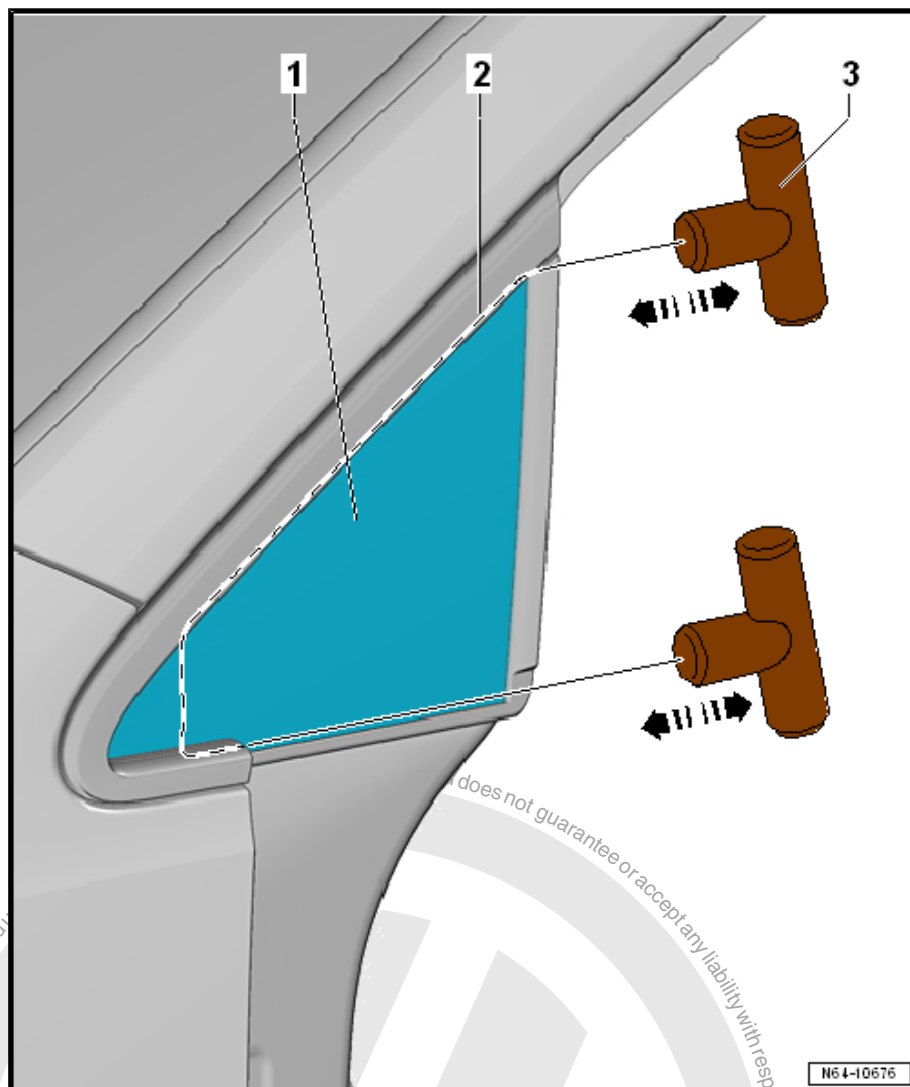
WARNING

Always wear protective eyewear and leather gloves.



Note

The Cutting Tool for Bonded Windows - Wire Reel - VAS6452/1- is used to remove the front side window.



- If equipped, pull the trim strip from the seal.
- The surrounding components are to be protected from damage.
- Place the cutting wire -2- around the front side window -1-.
 - Secure the cutting wire ends with the Bonded Window Tool Kit - Pull Handle - VAG1351/1- -3-.
 - Cut through the adhesive bead using "sawing" movements -arrows- with the Bonded Window Tool Kit - Pull Handle - VAG1351/1- .

Installing

- Prepare the undamaged window for glazing. Refer to
⇒ ["1.4 Undamaged Window Glass, Preparing for Installation"](#)
[page 276](#) .



- Prepare the new window for glazing. Refer to
⇒ [“1.5 New Window Glass, Preparing for Installation”, page 277](#).
- Prepare the body flange for glazing. Refer to
⇒ [“1.6 Body Flange, Preparing for Installation”, page 278](#).
- Installation instructions. Refer to
⇒ [“1.3 Bonded Window Glass Installation Instructions”, page 275](#).
- Minimum curing time. Refer to
⇒ [“1.1 Minimum Curing Time for Bonded Windows”, page 274](#).

4.3.2 Damaged Front Side Window, Removing

The procedure for removing a damaged front side window is identical to the removal of a damaged rear window. Refer to
⇒ [“3.2.2 Damaged Rear Window, Removing”, page 293](#).

4.4 Rear Side Window, Removing and Installing

⇒ [“4.4.1 Rear Side Window, Removing and Installing”, page 297](#)

⇒ [“4.4.2 Damaged Rear Side Window, Removing”, page 299](#)

4.4.1 Rear Side Window, Removing and Installing



Note

- ◆ *Removing the bonded windows is described using the Flush Bonded Window Kit - VAG1474 B-.*
- ◆ *The Cutting Tool for Bonded Windows - VAS6452- can also be used.*
- ◆ *The Bearing Installer - Differential Bearing - VAS6888- can also be used.*

Special tools and workshop equipment required

- ◆ Flush Bonded Window Kit - VAG1474 B- or Cutting Tool for Bonded Windows - VAS6452-
- ◆ Double Suction Lifter - VAG1344-
- ◆ Bonded Window Tool Kit - VAG1351-
- ◆ Window Removing Kit - VAG1755-
- ◆ Cartridge Gun - VAG1628-
- ◆ Cartridge Heater - VAG1939-

Removing



Note

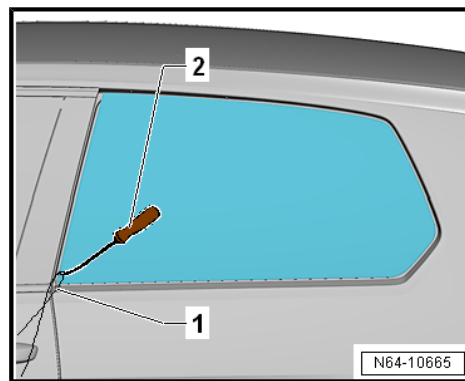
The following describes the removal and installation of the left rear side window. Removing and installing the right rear side window is identical.



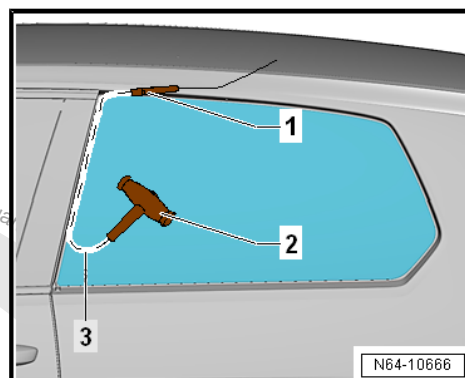
- Remove the side trim panel. Refer to ➔ Body Interior; Rep. Gr. 70 ; Passenger Compartment Trim; Component Location Overview - Passenger Compartment Trim .

Surrounding Components, Protecting from Damage

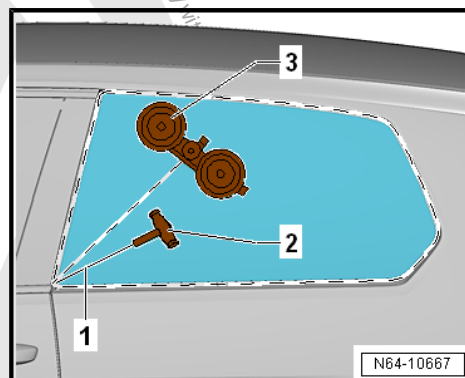
- Pull the cutting wire -1- with the Flush Bonded Window Kit - Awl - VAG1474/2- through the adhesive at the position shown in the illustration.
- Press the seal to the side so that it is not damaged.



- Insert the cutting wire -3- behind the seal into the window flange using the small tube -1-.



- Secure the wire end -3- to the Bonded Window Tool Kit - Pull Handle - VAG1351/1- -2- to counterhold.
- Pull the other wire end -2- through the adhesive as well.
- Secure the other wire end to the Window Reel Device - VAG1654A- -3-.
- Cut the window free by moving the Window Reel Device - VAG1654A- -3- accordingly.
- While cutting, press the cutting wire against the window with a plastic wedge in order to have clearance at the window flange.

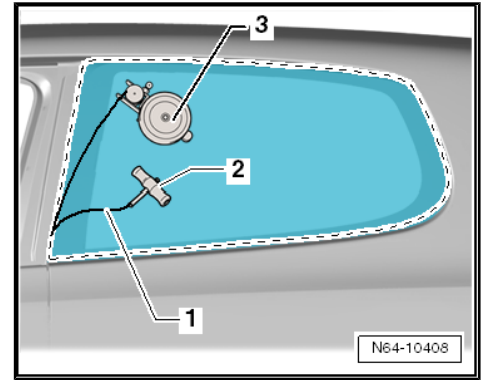




- Instead of the Window Reel Device - VAG1654- -3-, the Window Reel Device - VAG1654 A- -3- can also be used.
- One suction cup can be removed from the Window Reel Device - VAG1654- -3- as illustrated. By doing this, the roller of the Window Reel Device - VAG1654 A- -3- can be placed closer to window glass flange.

Installing

- Prepare the undamaged window for glazing. Refer to [⇒ "1.4 Undamaged Window Glass, Preparing for Installation", page 276](#) .
- Prepare the new window for glazing. Refer to [⇒ "1.5 New Window Glass, Preparing for Installation", page 277](#) .
- Prepare the body flange for glazing. Refer to [⇒ "1.6 Body Flange, Preparing for Installation", page 278](#) .
- Installation instructions. Refer to [⇒ "1.3 Bonded Window Glass Installation Instructions", page 275](#) .
- Minimum curing time. Refer to [⇒ "1.1 Minimum Curing Time for Bonded Windows", page 274](#) .



4.4.2 Damaged Rear Side Window, Removing

The procedure for removing a damaged rear side window is identical to the removal of a damaged rear window. Refer to [⇒ "3.2.2 Damaged Rear Window, Removing", page 293](#) .





5 Door Windows

⇒ [“5.1 Overview - Front Door Window”, page 300](#)

⇒ [“5.2 Overview - Rear Door Window”, page 301](#)

⇒ [“5.3 Overview - Fixed Rear Door Window”, page 302](#)

⇒ [“5.4 Front Door Window, Removing and Installing”, page 302](#)

⇒ [“5.5 Rear Door Window, Removing and Installing”, page 306](#)

⇒ [“5.6 Rear Fixed Door Window, Removing and Installing”, page 310](#)

5.1 Overview - Front Door Window



Note

The illustration shows the left side. The right side is identical.

1 - Front Door

2 - Door Window

- ❑ Removing and installing. Refer to
⇒ [“5.4 Front Door Window, Removing and Installing”, page 302](#).

3 - Door Inner Cover

- ❑ Removing and installing. Refer to
⇒ [“2.6 Door Inner Cover, Removing and Installing”, page 111](#).

4 - Bolt

- ❑ 3 Nm
- ❑ Quantity: 3

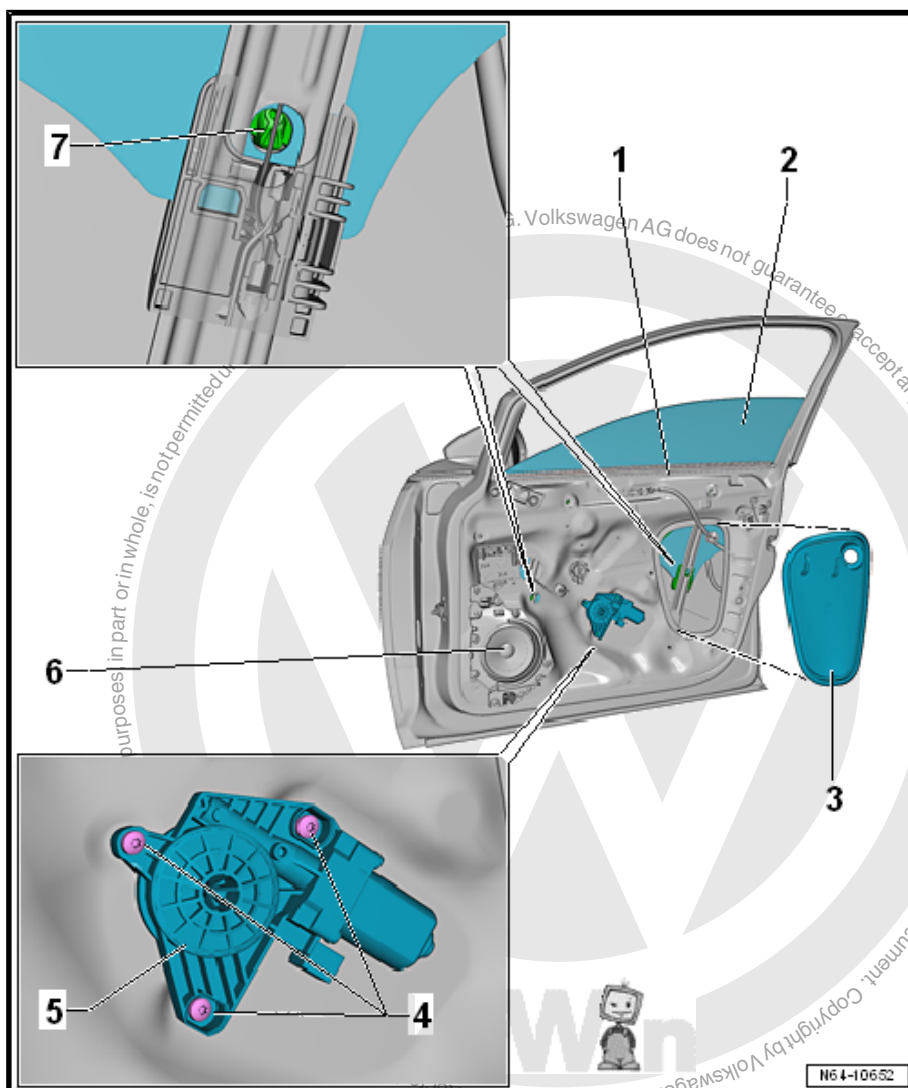
5 - Window Regulator Motor

- ❑ Removing and installing. Refer to
⇒ [“2.4 Left and Right Window Regulator Motor V14 / V15, Removing and Installing”, page 106](#).

6 - Cover

7 - Retaining Hook

- ❑ Quantity: 2
- ❑ For attaching the door window on the window regulator





5.2 Overview - Rear Door Window

1 - Rear Door

2 - Window Regulator

- ❑ Removing and installing. Refer to
⇒ ["2.5 Window Regulator, Removing and Installing", page 161](#).

3 - Expanding Pin

- ❑ Together with the spreader plug for attaching the door window.

4 - Spreader Plug

- ❑ Together with the expanding pin for attaching the door window.

5 - Window Regulator Motor

- ❑ Removing and installing. Refer to
⇒ ["2.4 Left and Right Rear Window Regulator Motor V26 / V27, Removing and Installing", page 159](#).

6 - Door Control Module

7 - Bolt

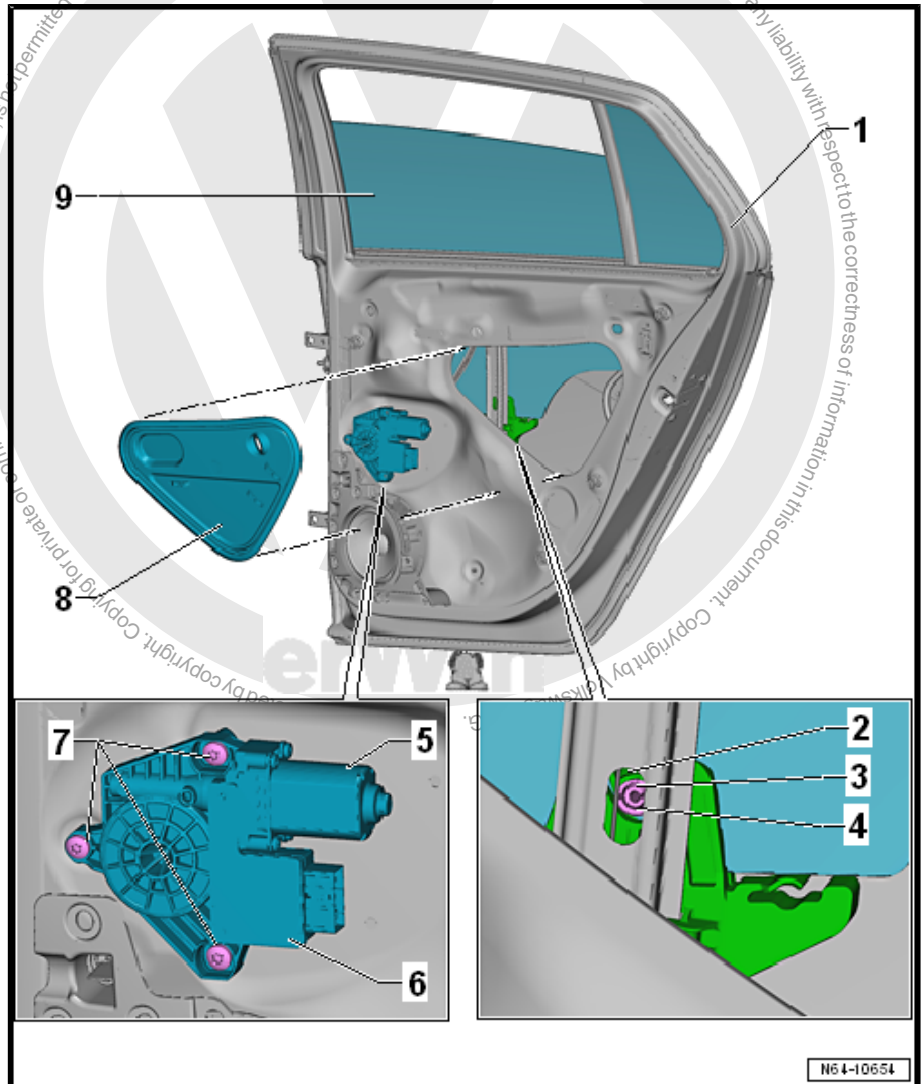
- ❑ 3 Nm
- ❑ Quantity: 3

8 - Door Inner Cover

- ❑ Removing and installing. Refer to
⇒ ["2.7 Door Inner Cover, Removing and Installing", page 166](#).

9 - Door Window

- ❑ Removing and installing. Refer to ⇒ ["5.5 Rear Door Window, Removing and Installing", page 306](#).





5.3 Overview - Fixed Rear Door Window

1 - Fixed Door Window

- ❑ Removing and installing. Refer to
⇒ ["5.6 Rear Fixed Door Window, Removing and Installing", page 310](#).

2 - Seal

- ❑ Part of the window glass.

3 - Bolt

- ❑ 6 Nm
- ❑ Quantity: 2

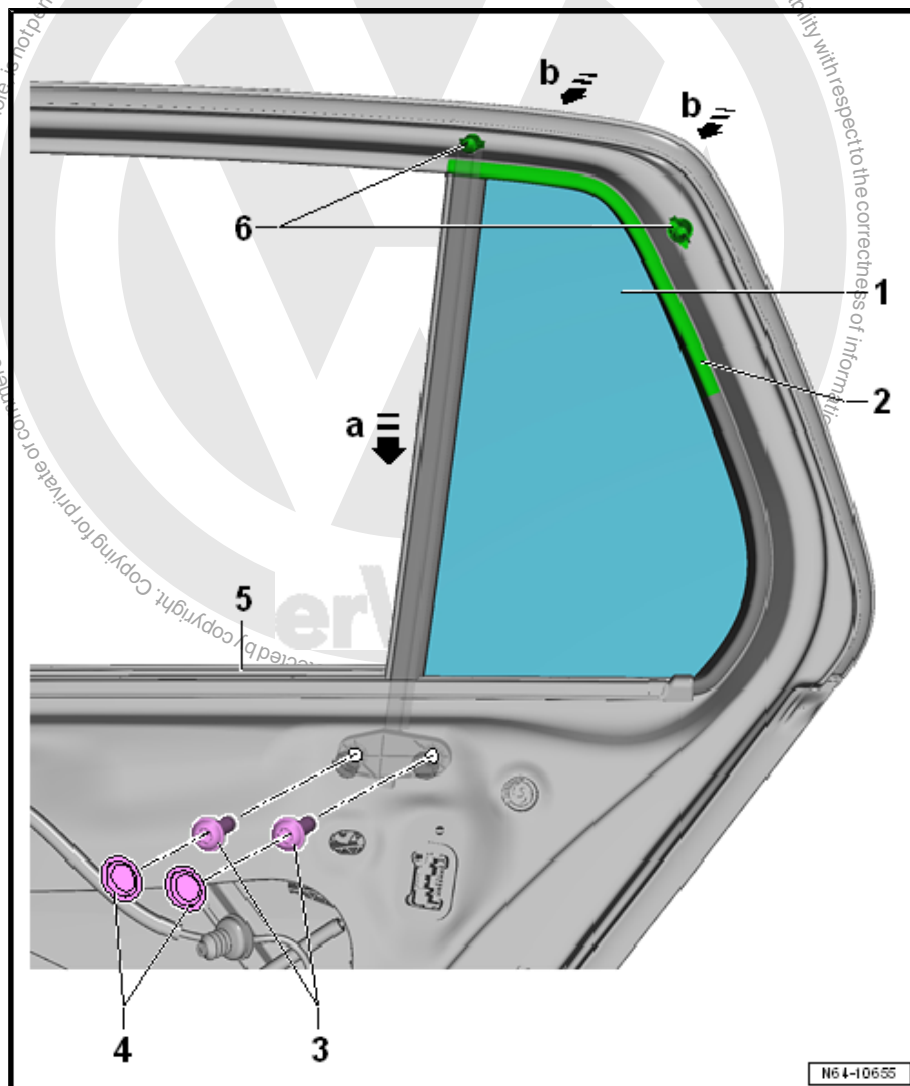
4 - Cap

- ❑ Quantity: 2

5 - Door

6 - Retaining Clip

- ❑ Quantity: 2



5.4 Front Door Window, Removing and Installing

Special tools and workshop equipment required

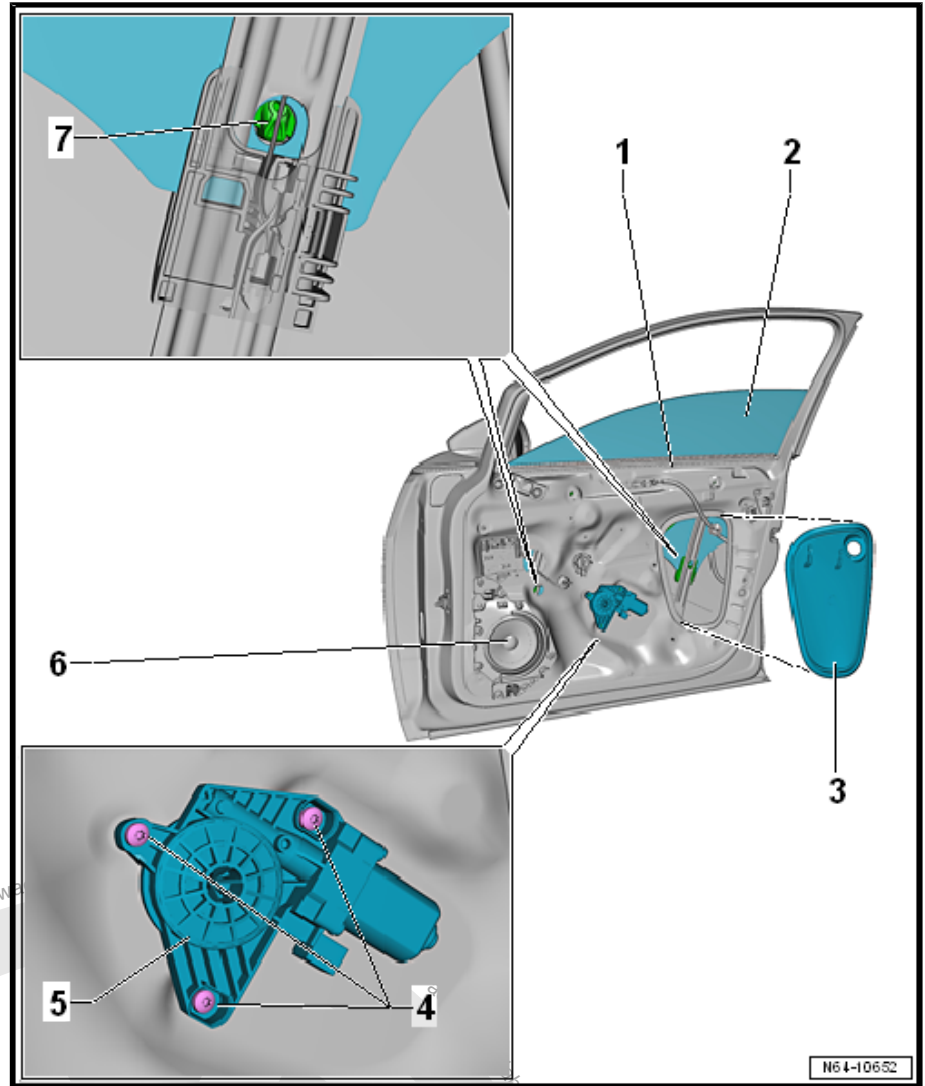
- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

The following describes removing and installing the right door window. The left side is identical.

Removing

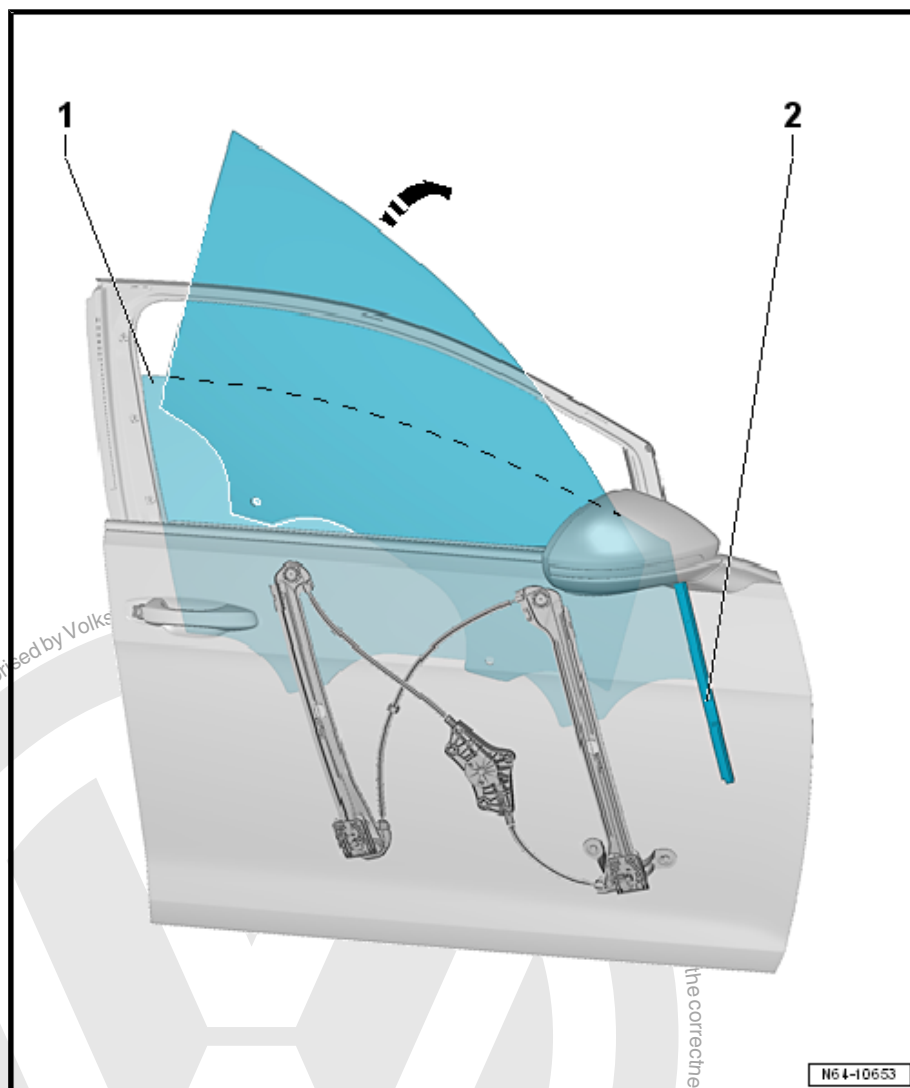


- Remove the front door trim panel. Refer to ➤ Body Interior; Rep. Gr. 70 ; Front Door Trim Panels; Front Door Trim Panel, Removing and Installing .
- Remove the door inner cover -3-. Refer to [➤ "2.6 Door Inner Cover, Removing and Installing", page 111 .](#)
- Pry out the cable bushing.
- Lower the door window -2- until the hook -7- in the door window are accessible.



Note

- ◆ *If it is not possible to do this because the window regulator motor is faulty, then remove the window regulator motor -5-.*
- ◆ *Then the door window can be moved.*
- Push the hooks -7- carefully through the opening in the window glass. While doing this slightly lift the door window, so that it does not fall back into the hooks.



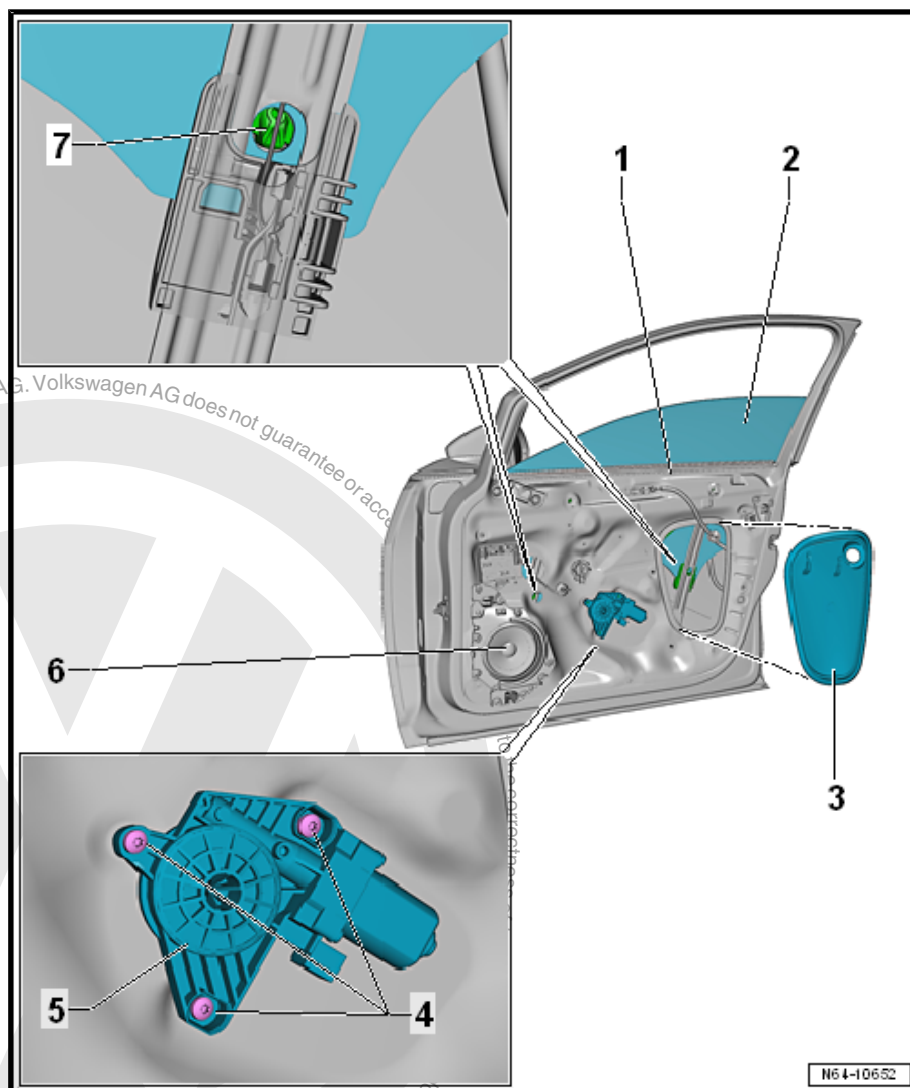
- Remove the door window -1- from the window regulator.
- Lift the rear door window -1- and remove it in from the window guides -2- -arrow-.

Installing



- 

- Guide the door window without pressure in the window regulator clamping brackets.
- Align the door window to the window frame.



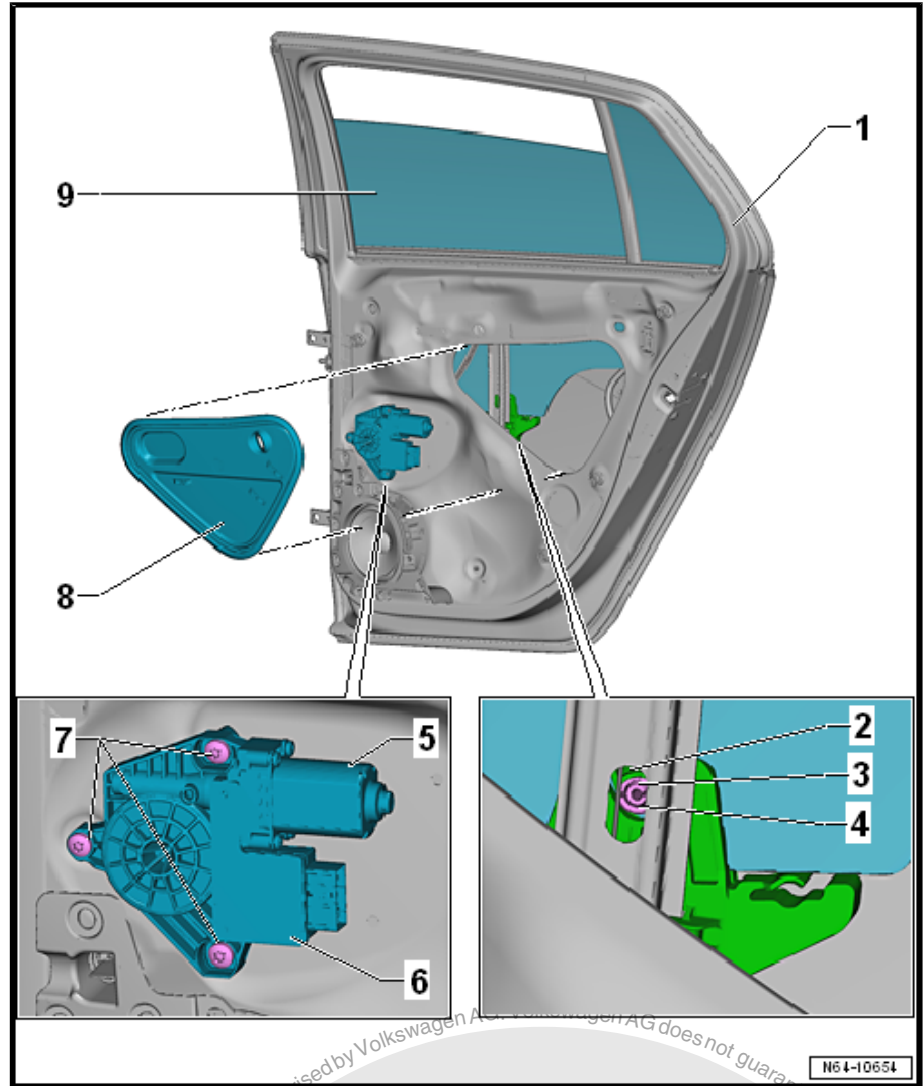
- Push the door window -1- in the clamping bracket until the hooks -7- in the door window lock.

Install in reverse order of removal.

- Check the function before installing the door inner cover, cable bushing, and the door trim panel.

5.5 Rear Door Window, Removing and Installing

Removing



- Remove the rear door trim panel. Refer to ➤ **Body Interior;** Rep. Gr. 70 ; Rear Door Trim Panels; Rear Door Trim Panel, Removing and Installing .
- Remove the door inner cover -8-.
- Lower the door window -9- just enough until the expanding pin -3- and the spreader plug -4- are accessible in the opening for the window regulator -2-.

i Note

If the step is not possible due to a malfunction in the window regulator, the window regulator motor -5- is removed -7-. Then the window can be moved to the necessary position.

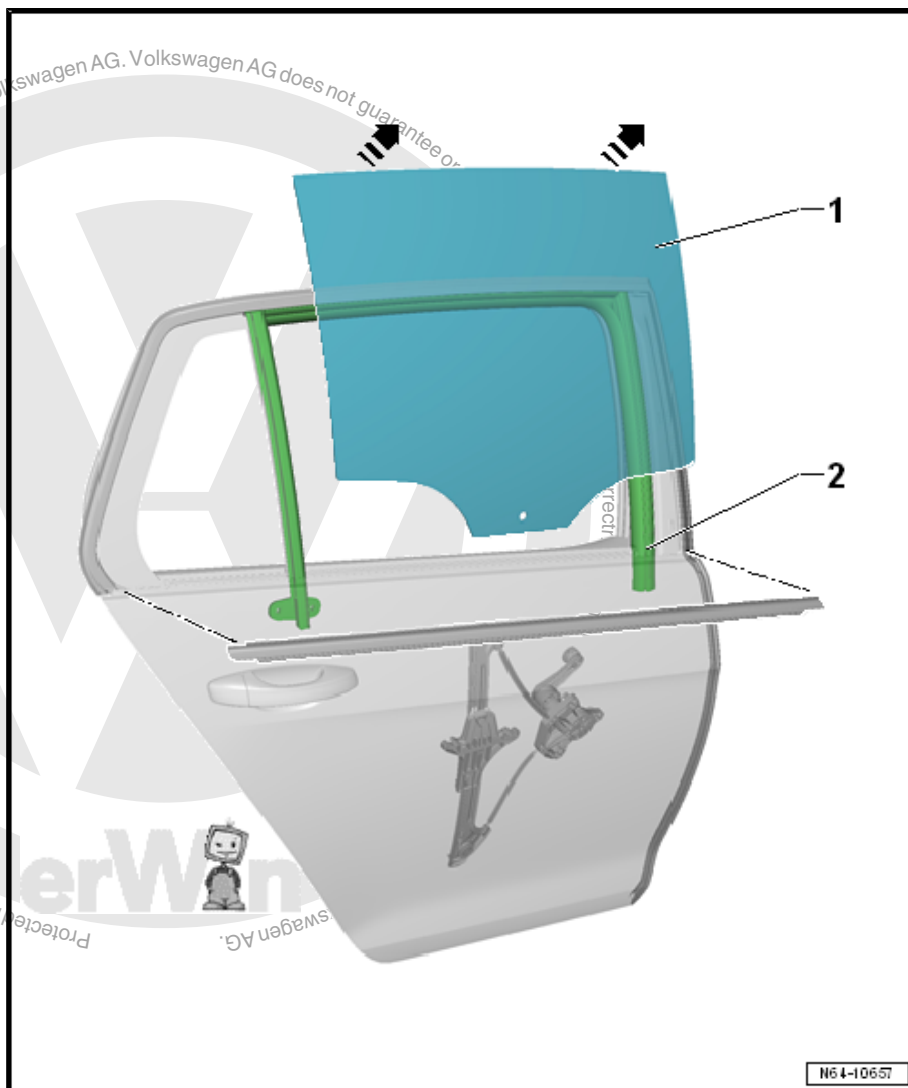
- Screw in a 5 mm bolt (approx. 70 mm long) into spreader pin -3- and pull the bolt with the expanding pin out from spreader plug -4-.
- Now screw in a 8 mm bolt (approx. 80 mm long) into spreader plug -4-.



Note

Do not apply excessive pressure on the plug when installing the bolt into the plug. Otherwise it will fall inside the door.

- Remove the spreader plug -3- from window regulator guide -2- and thereby from door window.



- Remove the trim. Refer to
⇒ [“3.7 Rear Door B-Pillar Trim, Removing and Installing”, page 350](#) .
- Remove the front part of the window guide -2- from the mount.
- Remove the door window -1- upward at an angle -arrows- with respect to the outside of the vehicle from the window shaft.

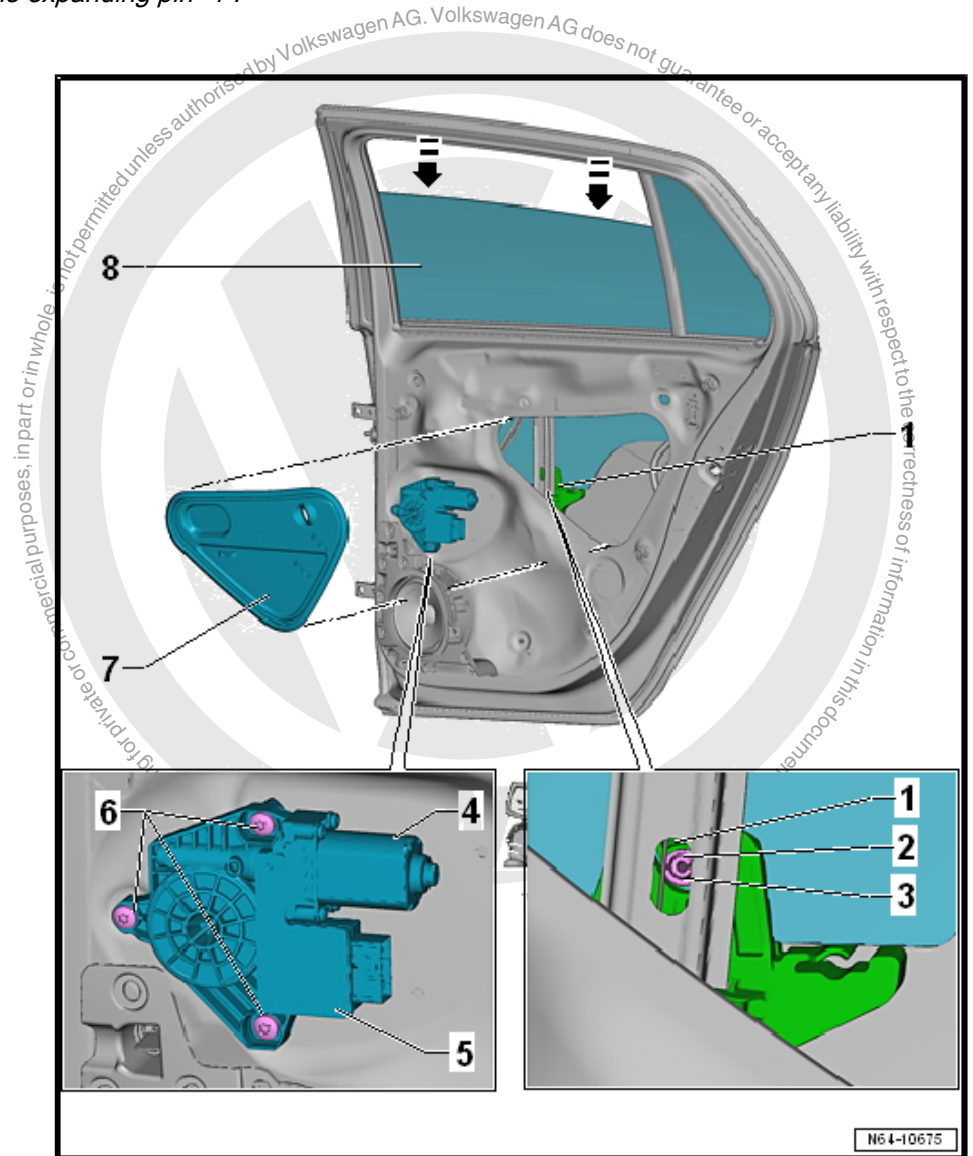


Installing



Note

- ◆ The spreader plug and spreader pin must be replaced when performing assembly work on the door window.
- ◆ Check the window glass -1- for damage before installing the spreader plug -3- and the expanding pin -4-.



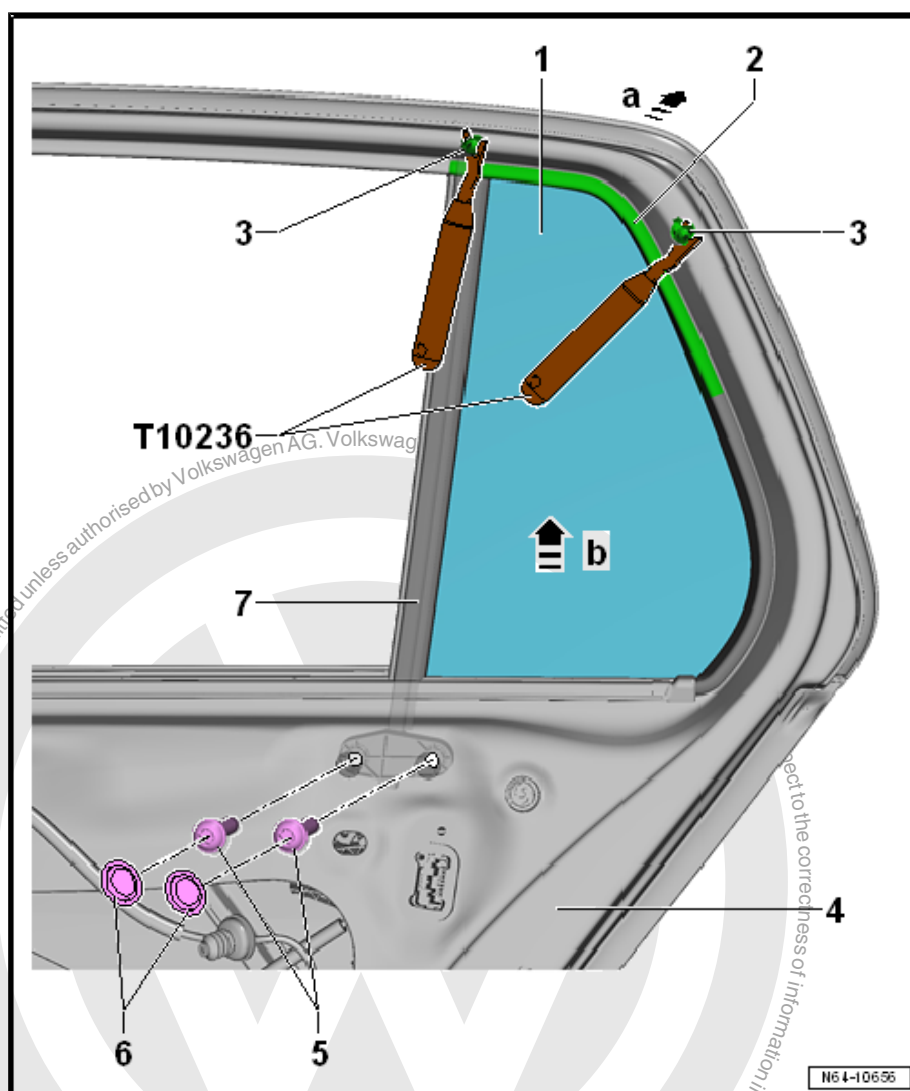
- Install the spreader plug -4- with the window glass removed -1- centered.
- Press in spreader pin -3- flush into spreader plug -4-.
- Install the door window -9- in the door -1- -arrows- and push in the window regulator guide slot.
- Using light pressure from above engage the window glass -1- in the window regulator -2-.
- Continue by performing the steps used in removal in reverse order.



- A function test must be performed before the door trim is installed.

5.6 Rear Fixed Door Window, Removing and Installing

Removing

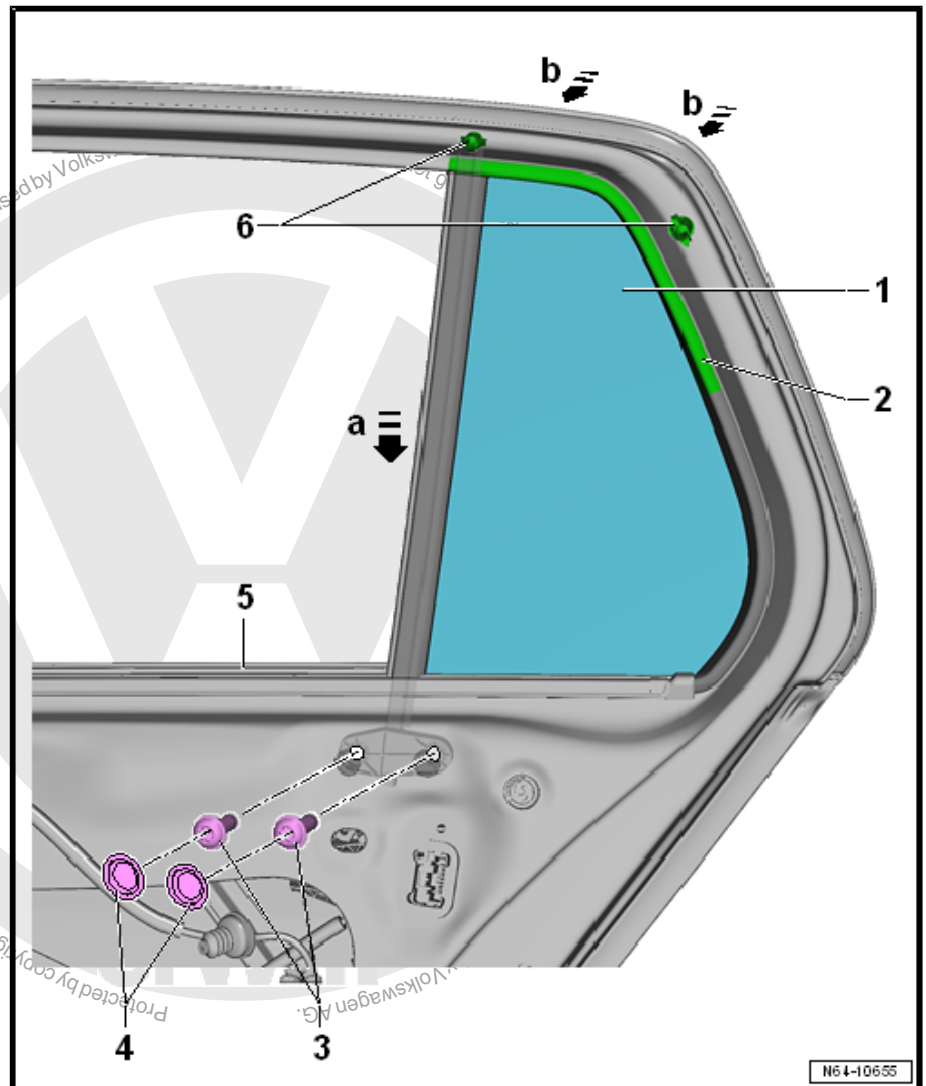


- Remove the door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Rear Door Trim Panels; Rear Door Trim Panel, Removing and Installing .
- Remove the window shaft strip. Refer to ⇒ [“2.14 Outer Window Shaft Strip, Removing and Installing”, page 182](#) .
- Remove the window guide. Refer to ⇒ [“2.13 Window Guide, Removing and Installing”, page 179](#) .
- Pry out the cap -6-.
- Remove the bolts -5-.
- Remove the seal -2- from the sheet metal flange.
- Guide the Window Release Tool - T10236- after each other under both clips -3-.



- Push the door window -1- slightly out -arrow a- until the clips -7- are pushed out of the door -4-.
- Remove the door window -1- and the bar -7- -arrow b- from the door -4-.

Installing



- Push the door window -1- into the door -arrow a-.
- Push the door window onto the door -5- until the clips -6- audibly latch -arrows b-.
- Tighten the bolts -4-.
- Pull the seal -2- around the flange.

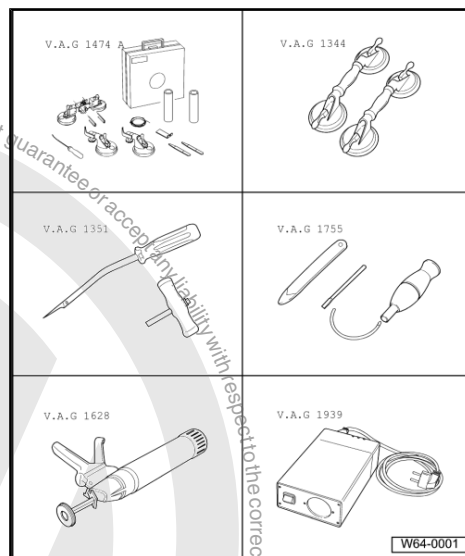
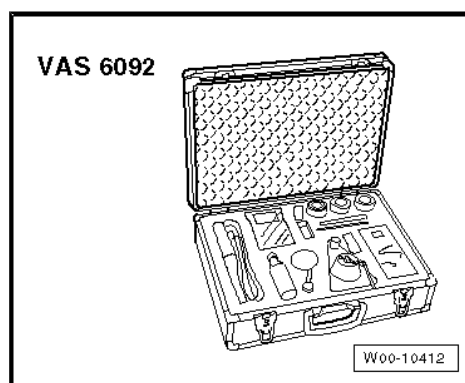
Tightening Specifications



6 Special Tools

Special tools and workshop equipment required

- ◆ Double Suction Lifter - VAG1344-
- ◆ Bonded Window Tool Kit - VAG1351-
- ◆ Flush Bonded Window Kit - VAG1474 B- or Cutting Tool for Bonded Windows - VAS6452-
- ◆ Cartridge Gun - VAG1628-
- ◆ Window Removing Kit - VAG1755-
- ◆ Grindstone Holder - VAG1939-
- ◆ Window Repair Kit - VAS6092-





66 – Exterior Equipment

1 Radiator Grille/Front Trim

Volkswagen R GmbH "R-Line" and "R" optional equipment

⇒ ["1.1 Overview - Radiator Grille", page 313](#)

⇒ ["1.2 Overview - Charging Port Door", page 314](#)

⇒ ["1.3 Radiator Grille, Removing and Installing", page 314](#)

⇒ ["1.4 Charging Port Door, Removing and Installing", page 316](#)

⇒ ["1.5 Adjusting Element, Removing and Installing", page 319](#)

1.1 Overview - Radiator Grille



Note

Depending on the model there are only optical differences and different version, allocation. Refer to Parts Catalog.

1 - Radiator Grille

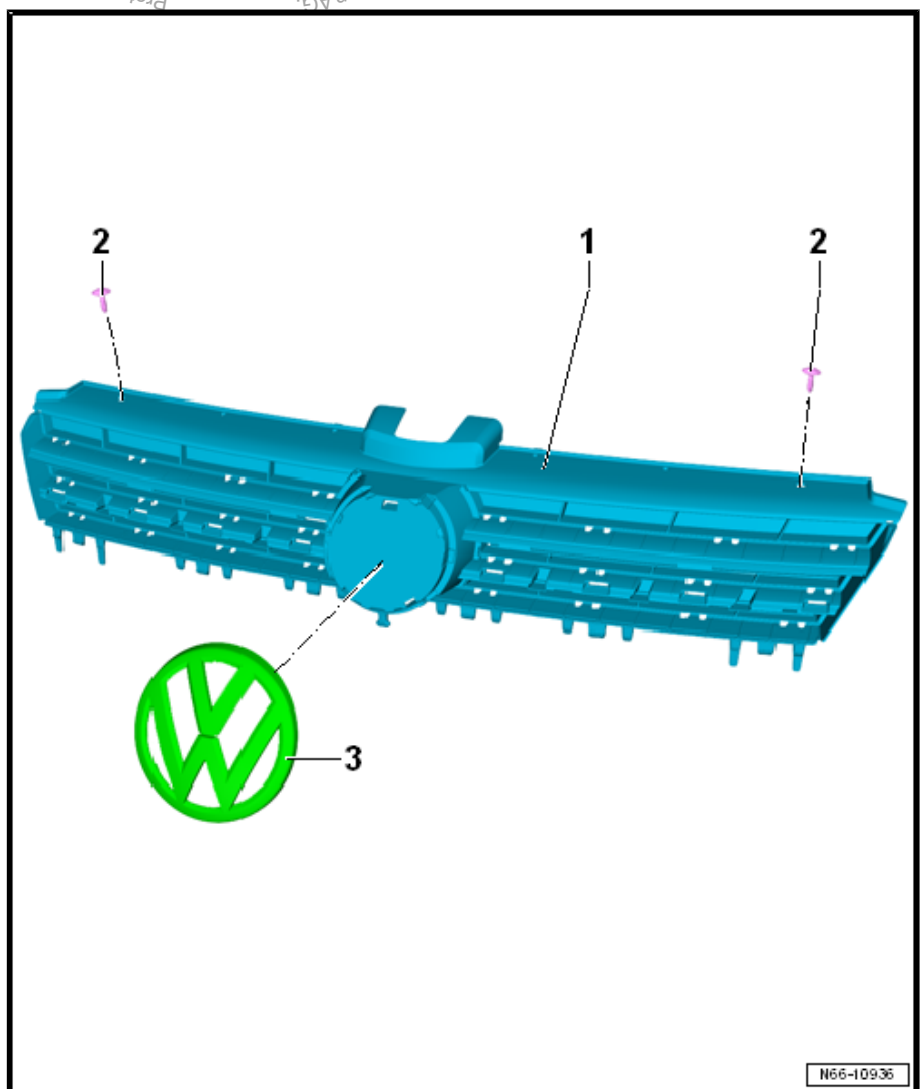
- ☐ Removing and installing. Refer to
⇒ ["1.3 Radiator Grille, Removing and Installing", page 314](#).
- ☐ There are different versions. For allocation. Refer to the Parts Catalog.

2 - Bolt

- ☐ 2.0 Nm
- ☐ Quantity: 2

3 - Emblem

- ☐ Removing and installing. Refer to
⇒ ["8.3 Front Emblem, Removing and Installing", page 394](#).





1.2 Overview - Charging Port Door

1 - Charging Port Door

- ❑ Removing and installing. Refer to ➤ ["1.4 Charging Port Door, Removing and Installing", page 316](#)

2 - Bolt

- ❑ 2 Nm
- ❑ For adjusting element
- ❑ Quantity: 3

3 - Adjusting element

- ❑ Removing and installing

4 - Immediate Charging Button - E766-

- ❑ Removing and installing. Refer to ➤ Electric Drive; Rep. Gr. 93 ; Charging Socket; Immediate Upload Button E766, Removing and Installing

5 - Bolt

- ❑ 2 Nm
- ❑ For the button
- ❑ Quantity: 2

6 - Bolt

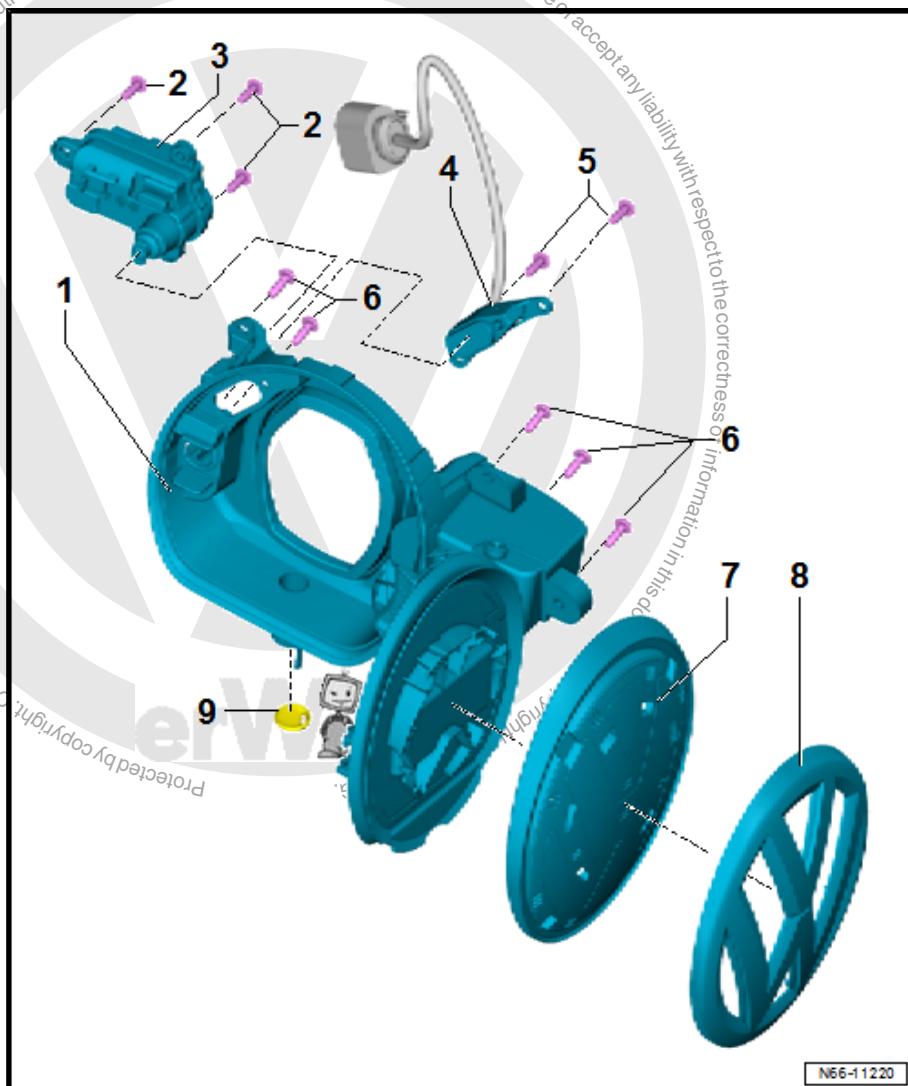
- ❑ 2 Nm
- ❑ For charging port door
- ❑ Quantity: 5

7 - Bracket

8 - Emblem

9 - Valve

- ❑ For water drain



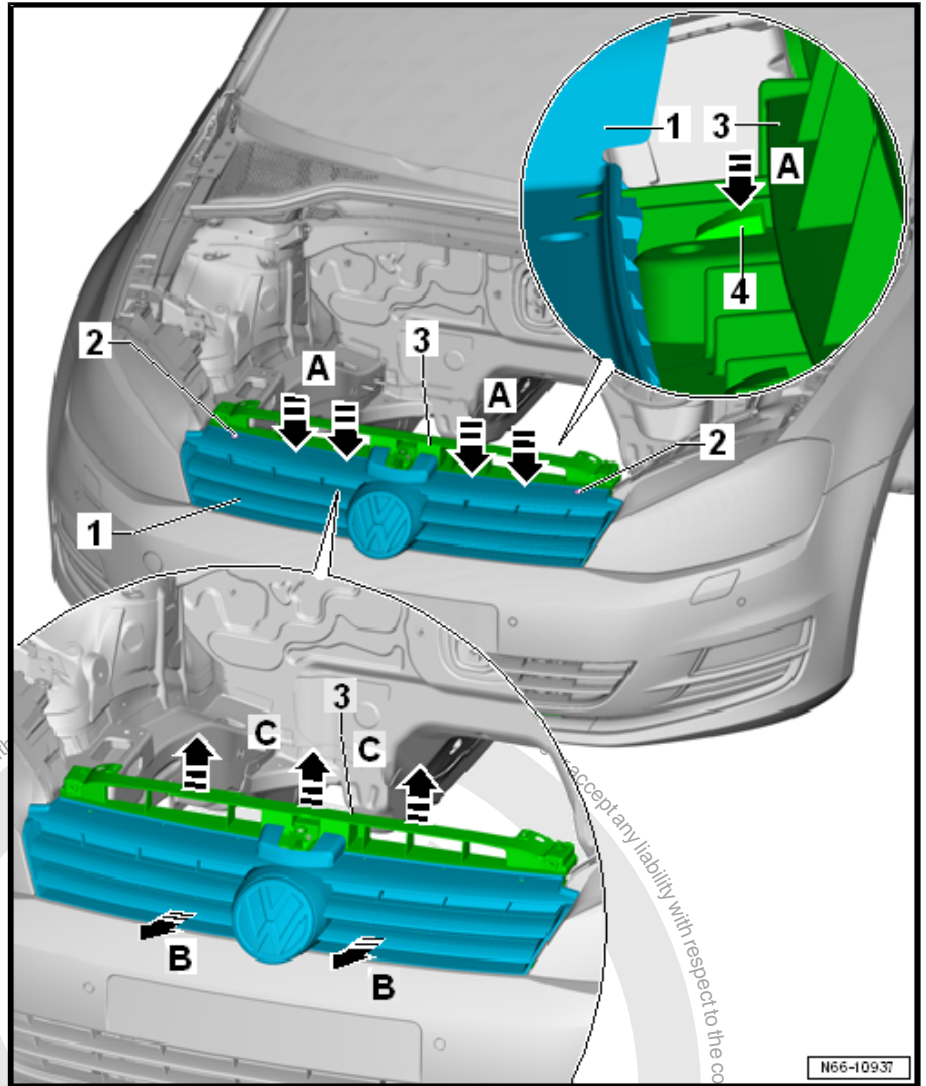
1.3 Radiator Grille, Removing and Installing

Removing



Note

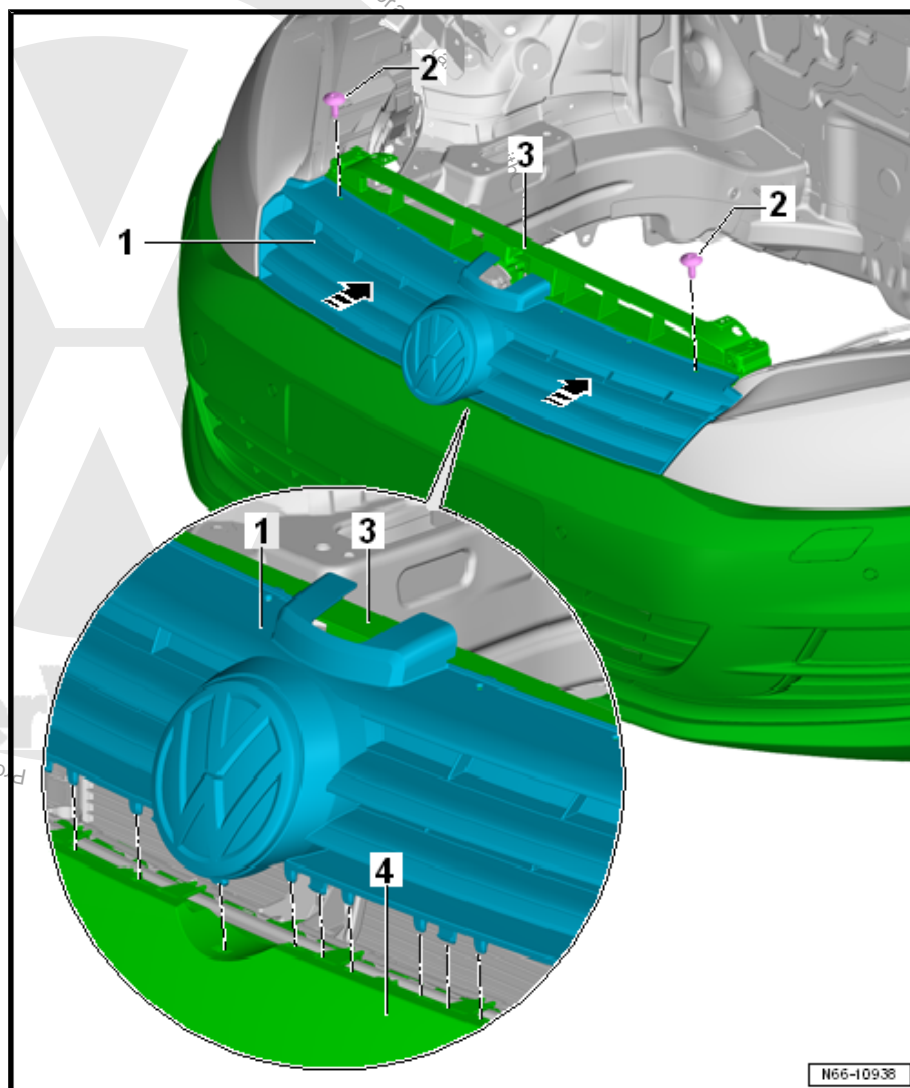
On vehicles with a charging port door in the radiator grille, the connector must be removed beforehand.



- Remove the bolts -2-.
- Release the catches -4- with a small screwdriver -A arrows-.
- Remove the radiator grille -1- in the direction of the -arrow B- parallel from the lock carrier catches -3-.
- Remove the radiator grille -1- upward -arrow C- from the front bumper cover.

On vehicles with a charging port door in the radiator grille, the connector is disconnected.

Installing



- Insert the radiator grille -1- in the front bumper cover -4-.
- Clip the radiator grille -1- with light pressure in the lock carrier -3- in the direction of the -arrow-.

On vehicles with a charging port door in the radiator grille, the connector is connected.



Note

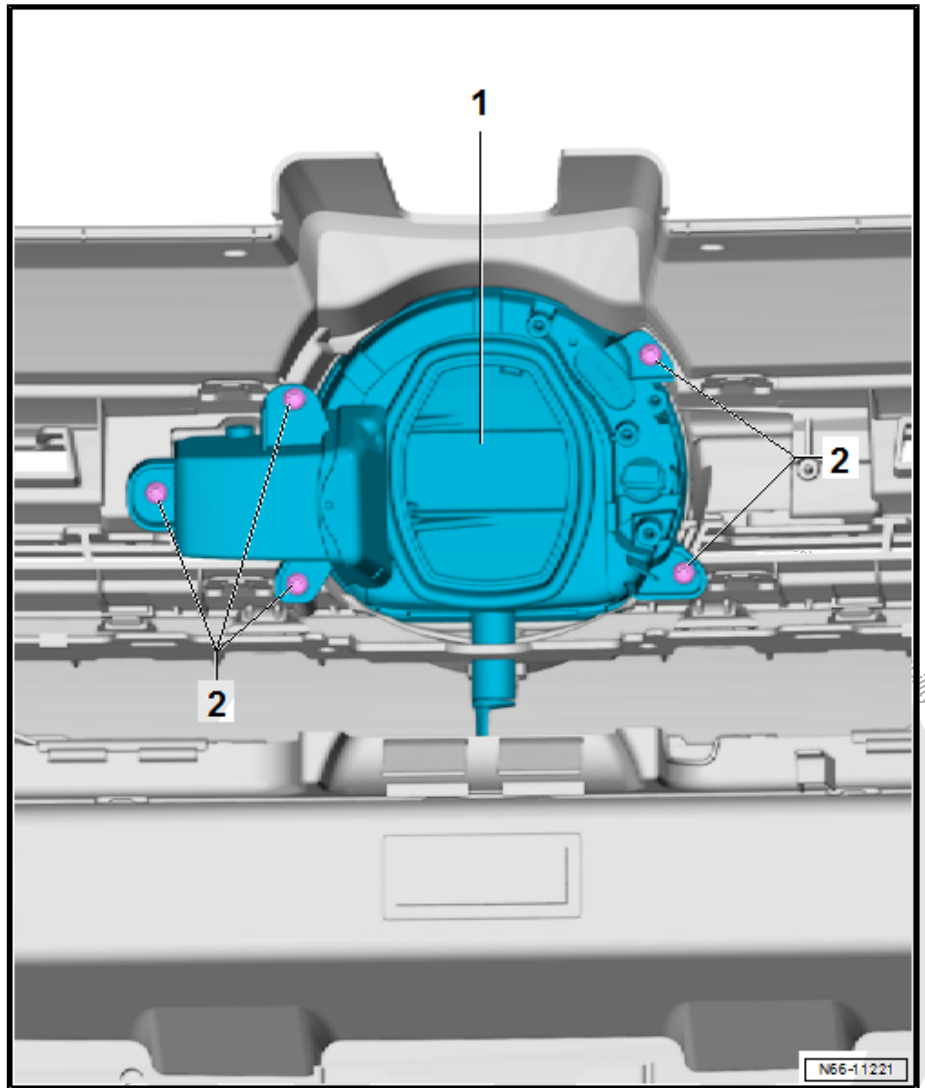
Orientation to the VW emblem opening in the hood.

- Install bolts -2-.

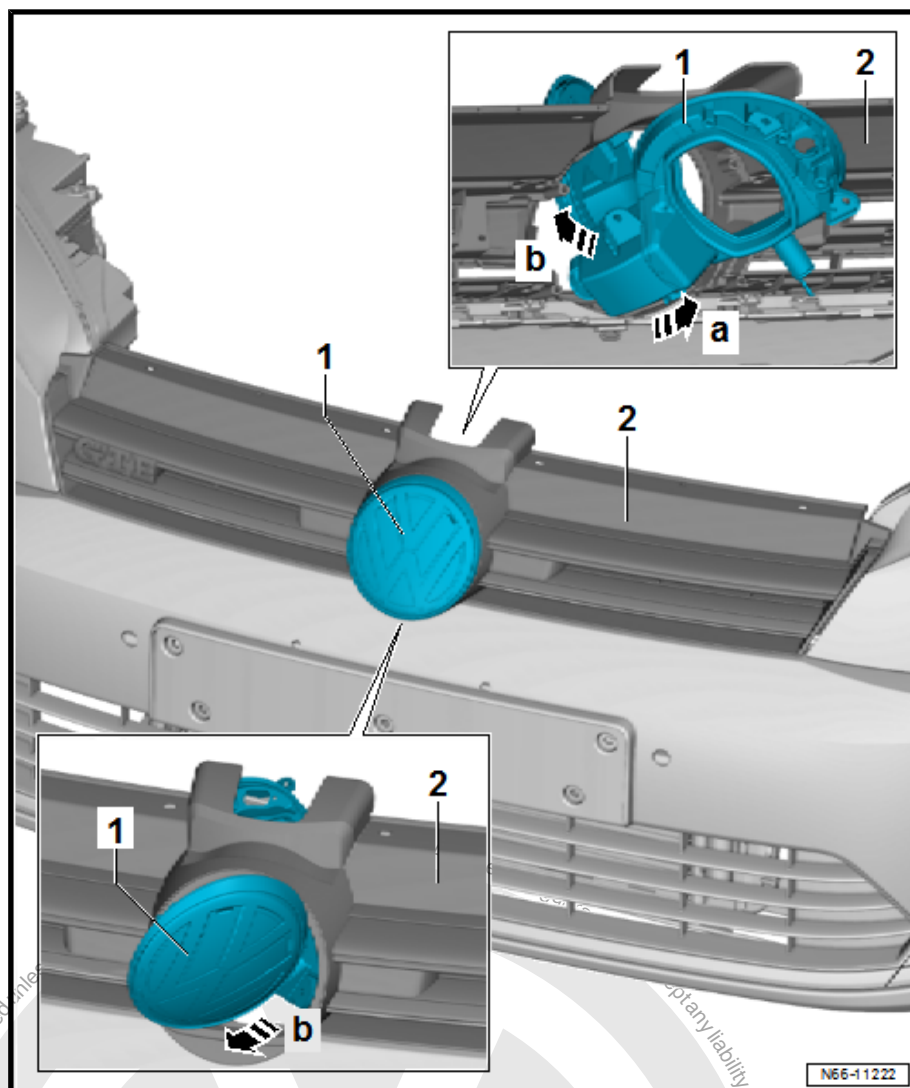
Tightening Specifications

1.4 Charging Port Door, Removing and Installing

Removing

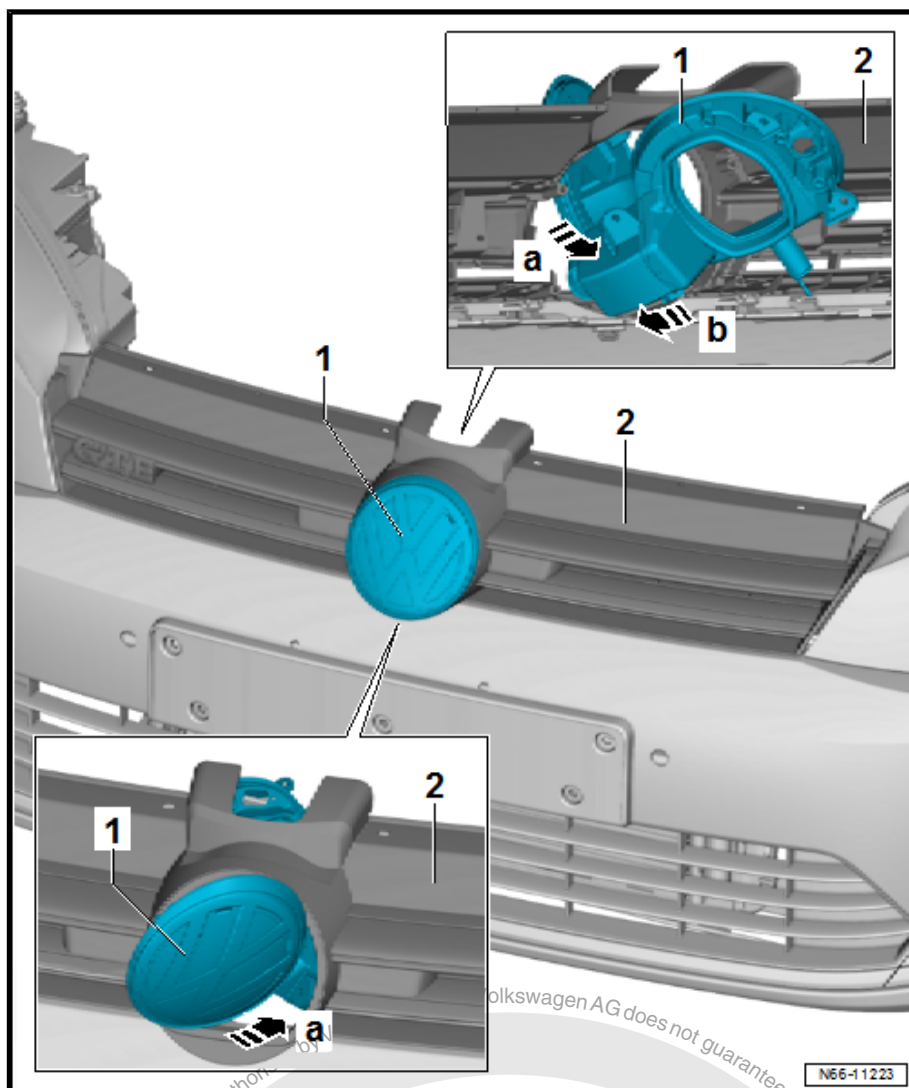


- Remove the radiator grille. Refer to
⇒ ["1.3 Radiator Grille, Removing and Installing", page 314](#) .
- Remove the bolts -2-.



- Slide the charging port door -1- sideways -arrow a-.
- Tilt the charging port door -1- outward through the radiator grille -2- -arrow b-.

Installing

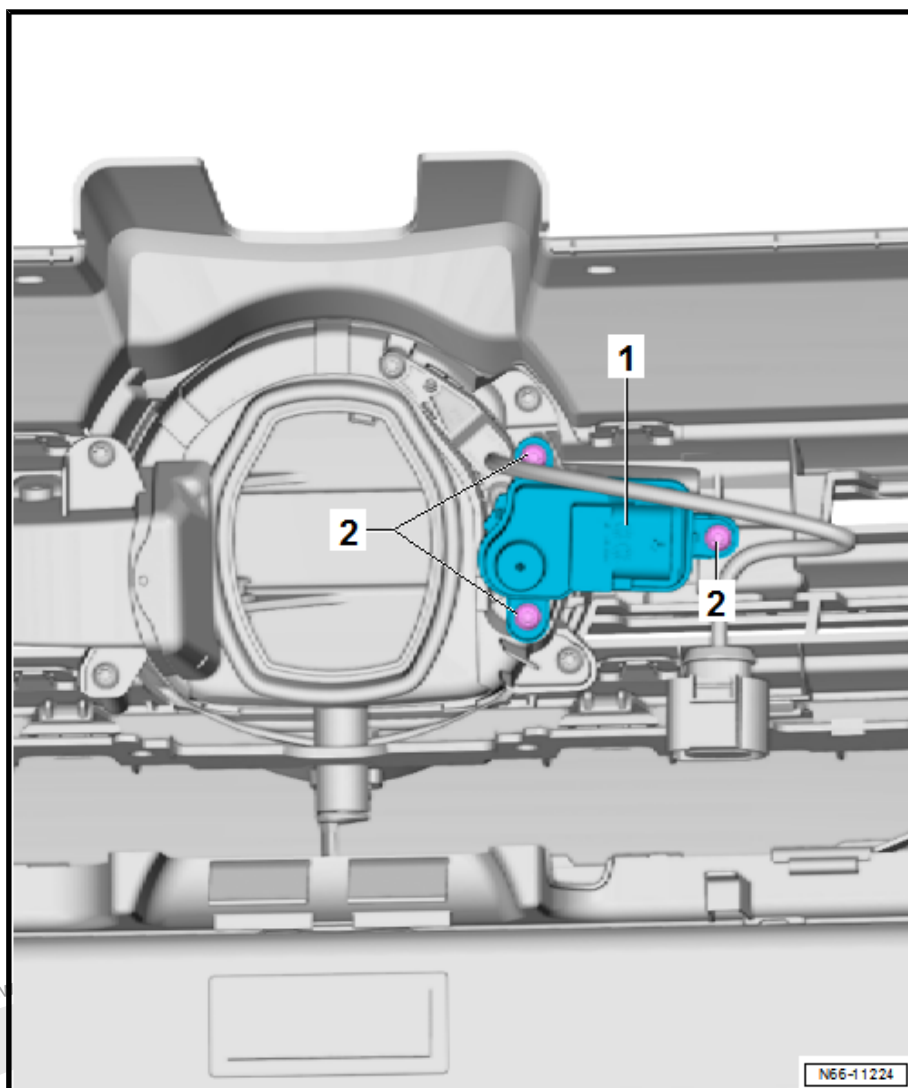


- Tilt the charging port door -1- inward through the radiator grille -2- -arrow a-.
- Slide the charging port door -1- sideways into the installation position -arrow b-.
- Install the bolts.

Tightening Specifications

1.5 Adjusting Element, Removing and Installing

Removing



- Remove the radiator grille. Refer to
⇒ [“1.3. Radiator Grille, Removing and Installing”, page 314](#) .
- Remove the bolts -2-.
- Remove the adjusting element -1-.

Installing

- Install bolts -2-.

Tightening Specifications

- ◆ Bolts on adjusting element. Refer to -item 2-
⇒ [Item 2 \(page 314\)](#)



2 Spoiler

Volkswagen R GmbH "R-Line" and "R" optional equipment

⇒ ["2.1 Overview - Spoiler on the Edge of the Roof", page 321](#)

⇒ ["2.3 Roof Edge Spoiler, Removing and Installing", page 322](#)

⇒ ["2.4 Side Spoiler, Removing and Installing", page 325](#)

2.1 Overview - Spoiler on the Edge of the Roof

1 - Spoiler on Roof Edge

- ☐ Material PC/PET
- ☐ With foam band as center bearing
- ☐ With four clips with foam ring
- ☐ Removing and installing. Refer to
⇒ ["2.3 Roof Edge Spoiler, Removing and Installing", page 322](#) .

2 - Right Side Spoiler

- ☐ With adhesive tape
- ☐ Removing and installing. Refer to
⇒ ["2.4 Side Spoiler, Removing and Installing", page 325](#) .

3 - Hex Nut

- ☐ 6.0 Nm
- ☐ Quantity: 2

4 - Clip

- ☐ Quantity: 4

5 - Clip Seal

- ☐ Quantity: 4

6 - Centering Pin

- ☐ Quantity: 3

7 - Centering Drift Seal

- ☐ Quantity: 3

8 - Threaded Pins

- ☐ Quantity: 3
- ☐ Part of the spoiler on the edge of the roof

9 - Threaded Pin Seal

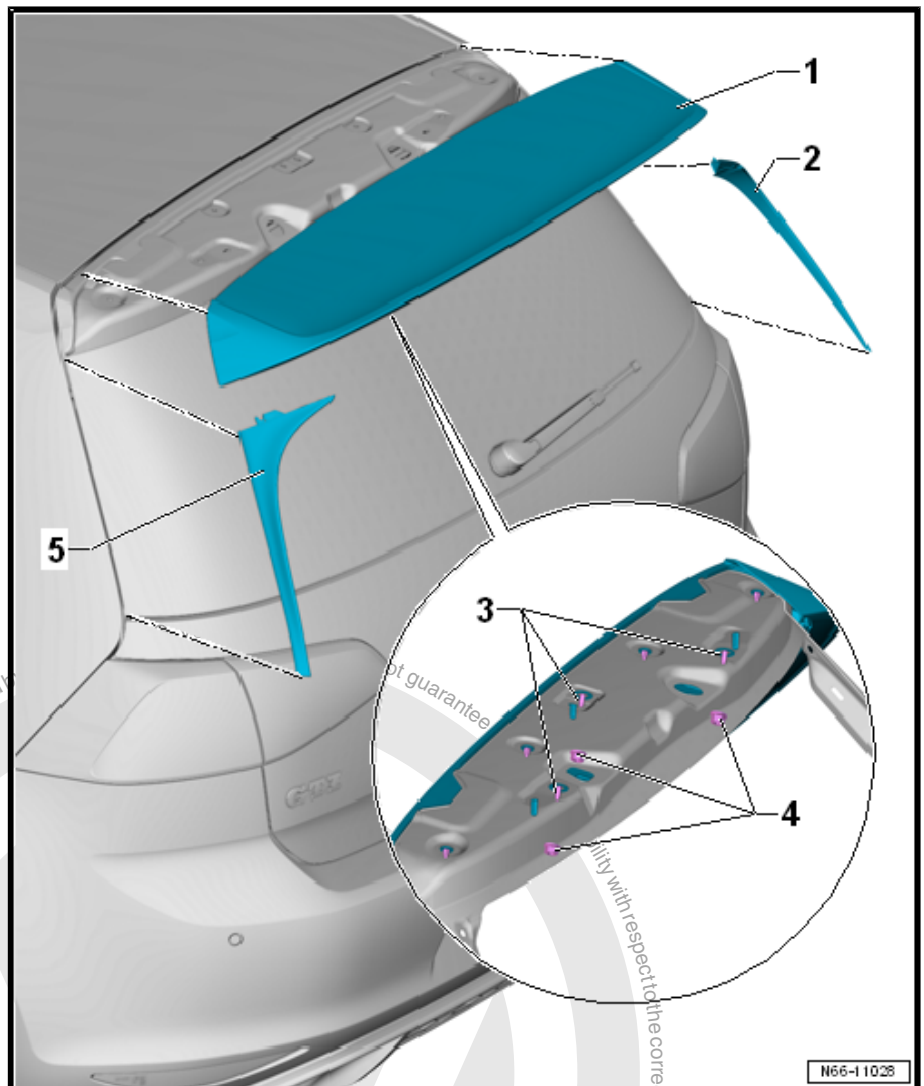
- ☐ Quantity: 3

10 - Adhesive Tape

- ☐ Part of the side spoiler

11 - Left Side Spoiler

- ☐ With adhesive tape
- ☐ Removing and installing. Refer to ⇒ ["2.4 Side Spoiler, Removing and Installing", page 325](#) .





12 - Protective Film

13 - Protective Film

2.2 Overview - Side Spoiler

1 - Side Spoiler

2 - Adhesive Strips

- ❑ Part of the side spoiler

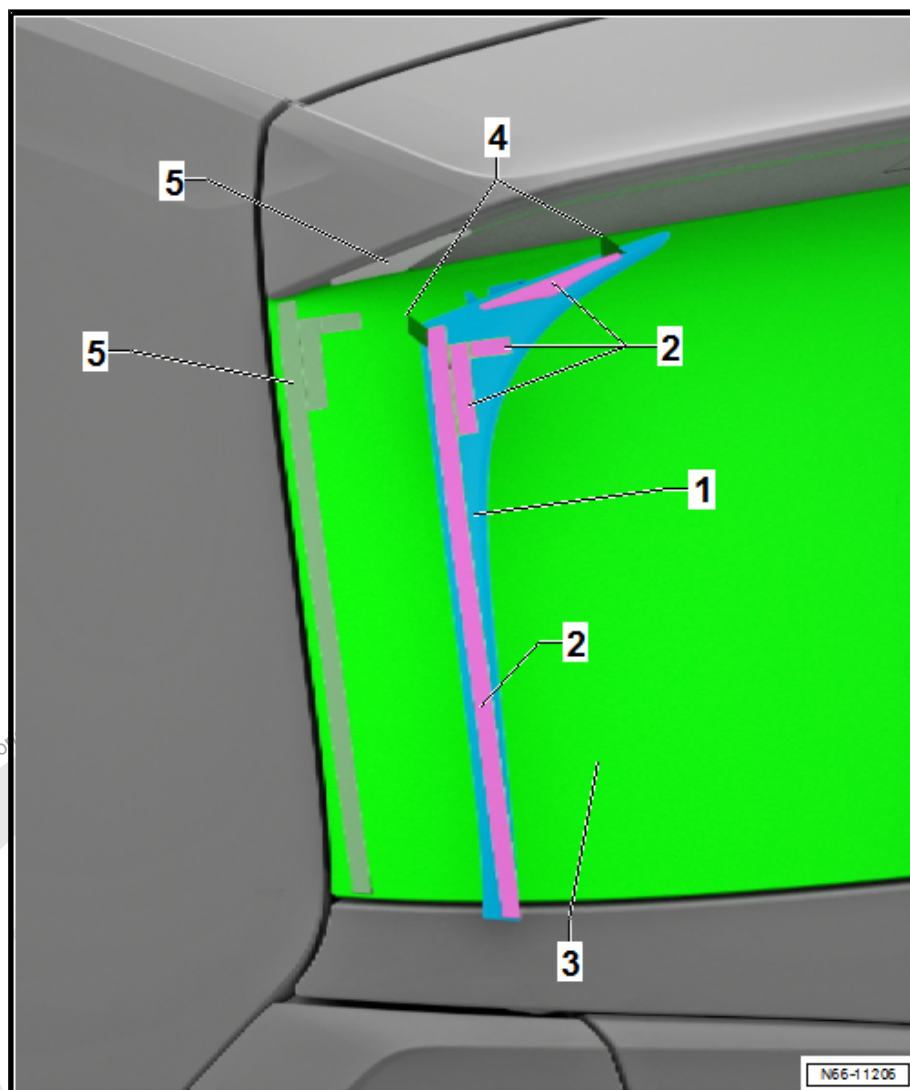
3 - Rear Window

4 - Pull Assist

- ❑ For the protective film on adhesive tape

5 - Adhesive Surface

- ❑ On the rear window and the spoiler on the edge of the roof



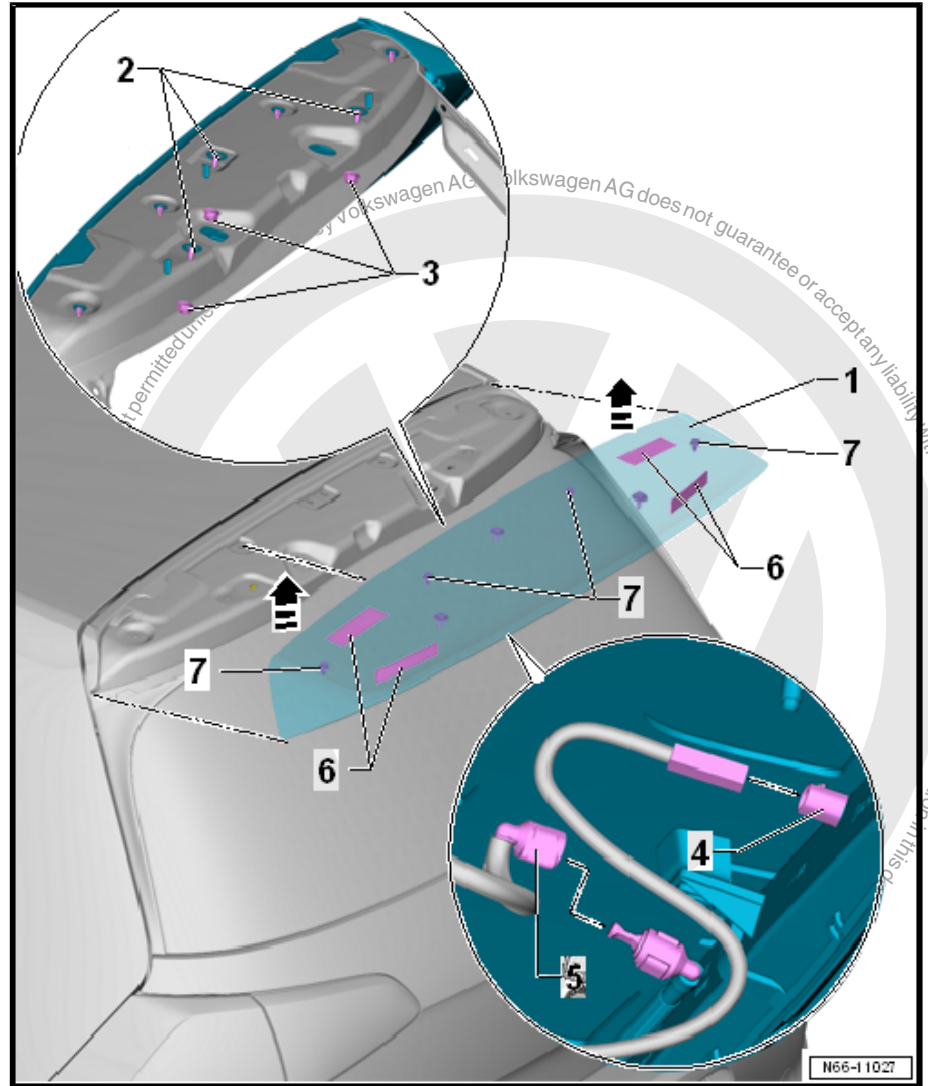
2.3 Roof Edge Spoiler, Removing and Installing

Removing



Note

The side spoiler remains installed.

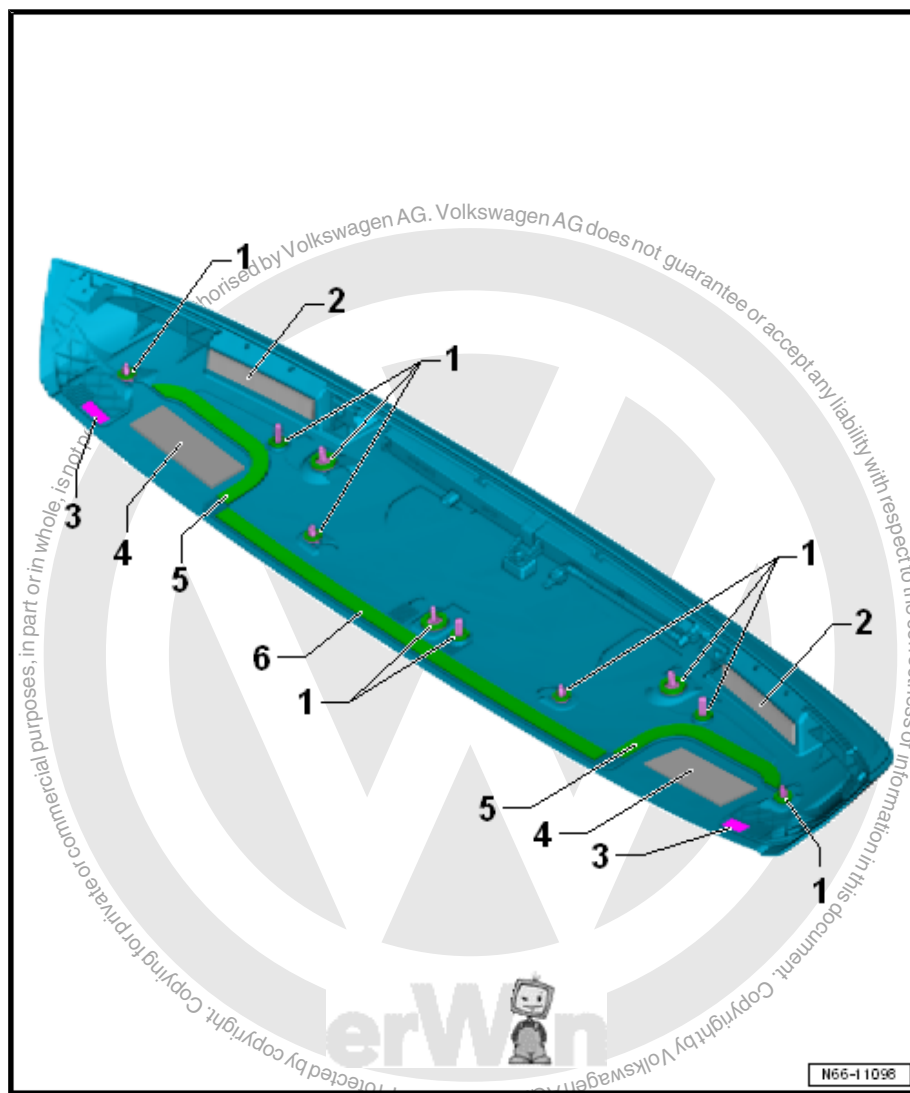


- Remove the rear lid trim panel. Refer to ➤ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels .
- Pry out the cap.
- Remove the hex nuts -3- from the threaded pins -2-.
- Remove the spoiler on the edge of the roof -1- forcefully upward -arrows- from the clips -7-.
- Disconnect the hose -5- and the wire -4-.

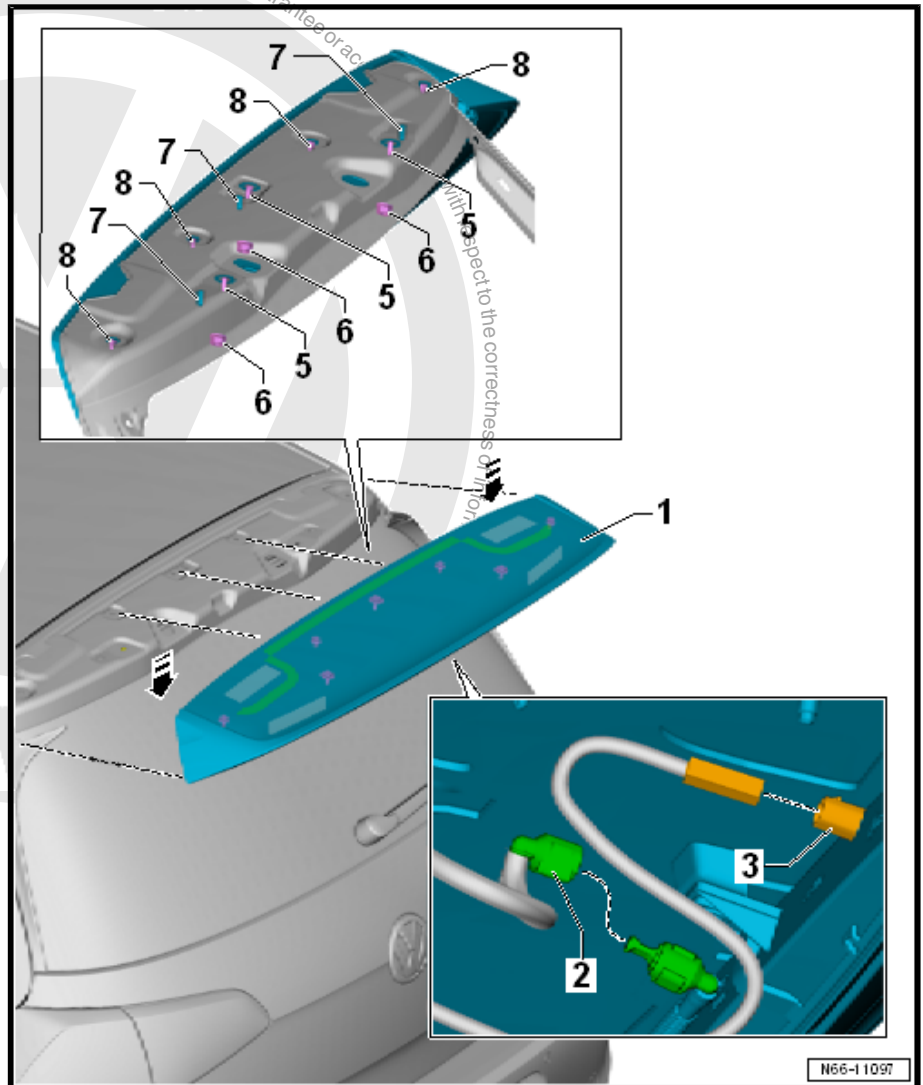
Notes on hoses and the windshield washer system. Refer to ➤ Electrical Equipment; Rep. Gr. 92 ; Windshield Washer System; Overview - Windshield Washer System .

Notes on the wire and the high-mounted brake lamp. Refer to ➤ Electrical Equipment; Rep. Gr. 94 ; High-Mounted Brake Lamp; Overview - High-Mounted Brake Lamp .

Installing



- Check the foam ring -1-, the clips, centering pins and threaded pins for damage, and if necessary replace.
- Check the foam strips -5- and -6- for damage and if necessary replace.
- Check the right and left felt strips (32 mm x 110 mm) -4- and foam strips 20 mm x 122mm) -2- for damage, and if necessary replace.
- remove the protective film from the left and right adhesive tape -3-.



- Secure the hose -2- and wire -3-.

Notes on hoses and the windshield washer system. Refer to ⇒
Electrical Equipment; Rep. Gr. 92 ; Windshield Washer System;
Overview - Windshield Washer System .

Notes on the wire and the high-mounted brake lamp. Refer to ⇒
Electrical Equipment; Rep. Gr. 94 ; High-Mounted Brake Lamp;
Overview - High-Mounted Brake Lamp .

- Bring the spoiler on the edge of the roof -1- using the centering pin -7- in the installation position.
- Push the spoiler on the edge of the roof -1- forcefully in the rear lid -arrows-, until the clips -8- engage.
- Place the hex nuts -6- on the threaded pins -5- and tighten.
- Tightening specification. Refer to
⇒ [“2.1 Overview - Spoiler on the Edge of the Roof”](#),
[page 321](#) .

2.4 Side Spoiler, Removing and Installing

Removing

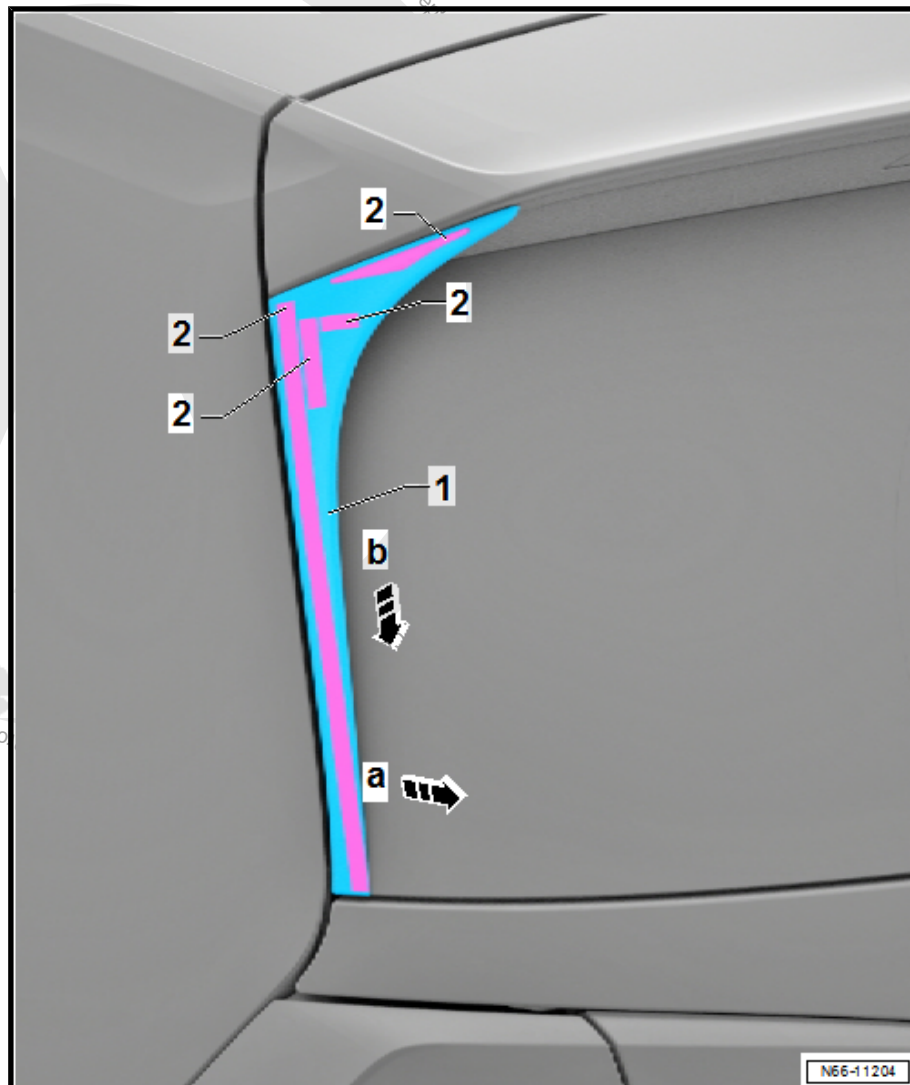
Special tools and workshop equipment required

- ◆ Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A-



Note

The illustration shows the left side. The right side is identical.



- Warm the side spoiler -1- in the area of the adhesive strips -2- using a Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A- .
- Remove the side spoiler -1- from the rear window -arrow a- and remove it downward from the spoiler on the edge of the roof -arrow b-.

Installing a New Side Spoiler

Special tools and workshop equipment required

- ◆ Professional Cleaning Cloth - VAS6006-



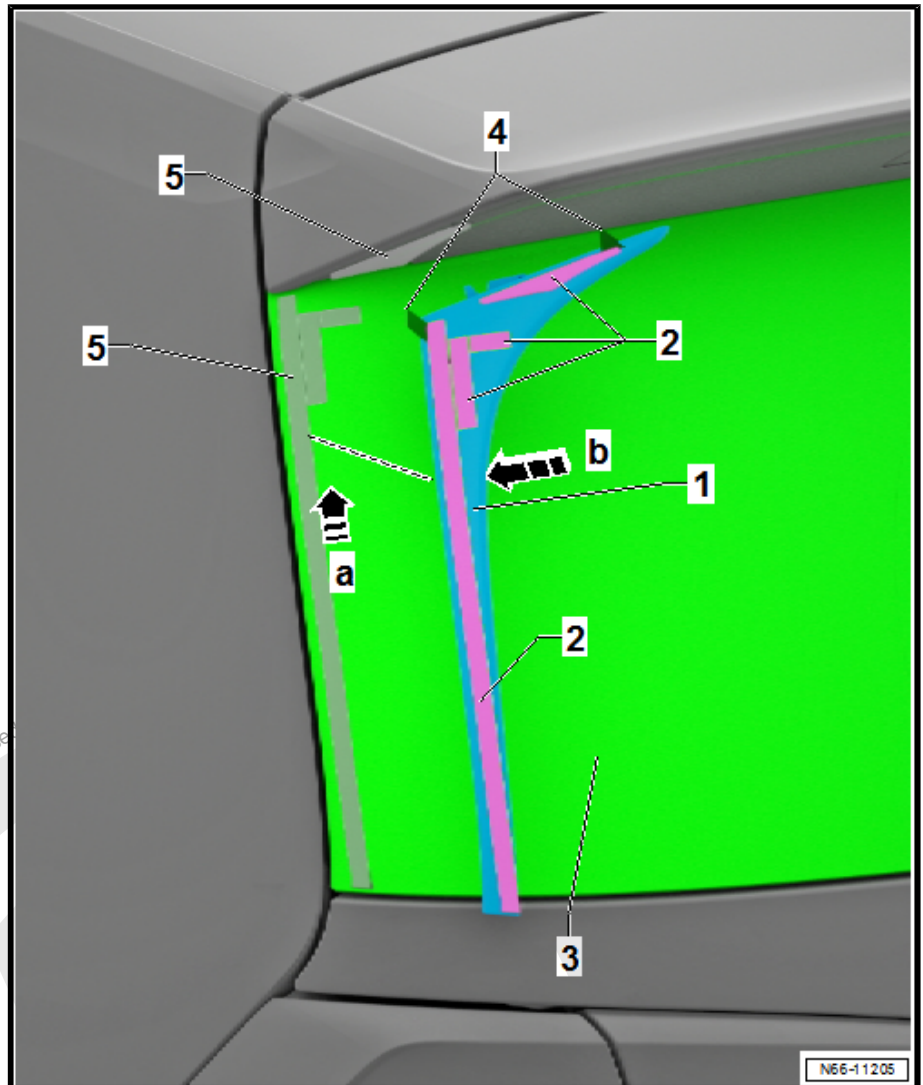
Note

The illustration shows the left side. The right side is identical.



Note

The side spoiler -1- is attached with two-sided adhesive tape -2-.



- Place the side spoiler -1- on the rear window and mark the position with adhesive tape.
- Remove the side spoiler -1-.
- Clean the rear window and spoiler on the edge of the roof in the marked areas -5- with cleaning solution.



Note

- ◆ The application with help of the primer applicator must be performed in one step without stopping.
- ◆ A closed film must be produced on the glass surface.
- ◆ Avoid applying twice.
- Apply the glass/paint primer evenly on the adhesive surface -3- on the rear window and lightly wipe off using the Professional Cleaning Cloth - VAS6006- .



Glass/paint primer drying time: five minutes.

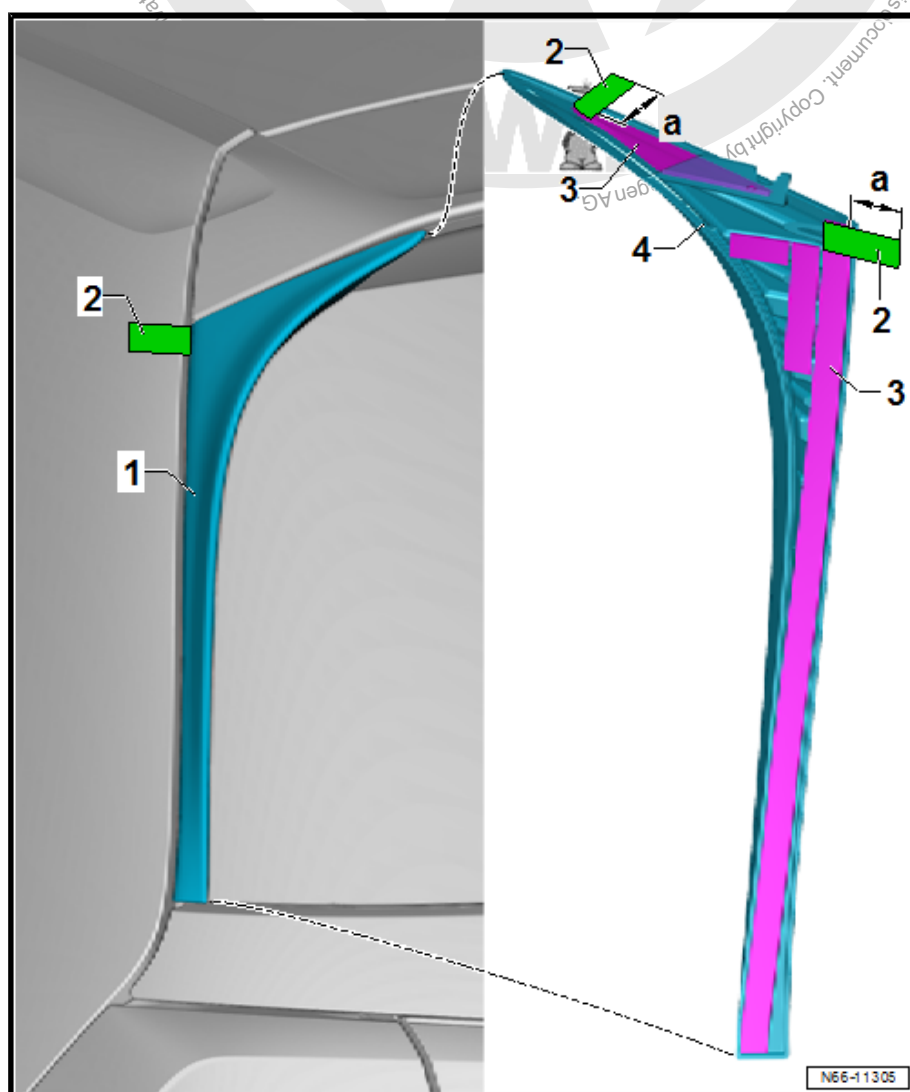
- Remove the upper protective film -4- of the two-sided adhesive tape -2-.
- Slide the side spoiler -1- under the spoiler on the edge of the roof -arrow a- and align.
- Push the side spoiler -1- firmly onto the spoiler on the edge of the roof.
- Remove the protective film -4- of the two-sided adhesive tape -2- for the window glass.
- Firmly press the side spoiler -1- onto the rear window -3- -arrow b-.

Installing the Removed Side Spoiler



Note

- ◆ If a removed spoiler is reused, the adhesive tape must be self-prepared.
- ◆ Use the adhesive tape from the allocation. Refer to the Parts Catalog.



- Remove the adhesive residue completely.



- Clean the spoiler -4- thoroughly with the cleaning solution.
 - Prim the adhesive surface -3- evenly and in a single stroke.
- Glass/paint primer drying time: five minutes.
- Cut the adhesive tape -3- as shown.
 - At the same time leave a pull tab -dimension a- from the protective film -2- on all adhesive tapes.
 - The further installation is performed the same as a new spoiler.
Refer to ➔ [page 326](#) .





3 Molding/Trim/Extensions/Trim Panels

- ⇒ [“3.1 Overview - Drip Rail”, page 330](#)
- ⇒ [“3.2 Overview - Sill Panel Trim”, page 332](#)
- ⇒ [“3.3 Overview - Heat Shield”, page 335](#)
- ⇒ [“3.4 Drip Rail, Removing and Installing”, page 336](#)
- ⇒ [“3.5 Sill Panel Trim”, page 337](#)
- ⇒ [“3.6 Front Door B-Pillar Trim, Removing and Installing”, page 348](#)
- ⇒ [“3.7 Rear Door B-Pillar Trim, Removing and Installing”, page 350](#)
- ⇒ [“3.8 Floor Heat Shield, Removing and Installing”, page 351](#)
- ⇒ [“3.9 Center Exhaust System Heat Shield, Removing and Installing”, page 352](#)
- ⇒ [“3.10 Rear Muffler Heat Shield, Removing and Installing”, page 353](#)

3.1 Overview - Drip Rail



Note

The illustration shows the right side. The left side is identical.





1 - Drip Rail

- ❑ Removing and installing. Refer to
⇒ ["3.4 Drip Rail, Removing and Installing", page 336](#).

2 - Retaining Strip

- To remove, drill out rivet heads and drive out rivet shafts.

3 - A-Pillar

4 - Blind Rivet

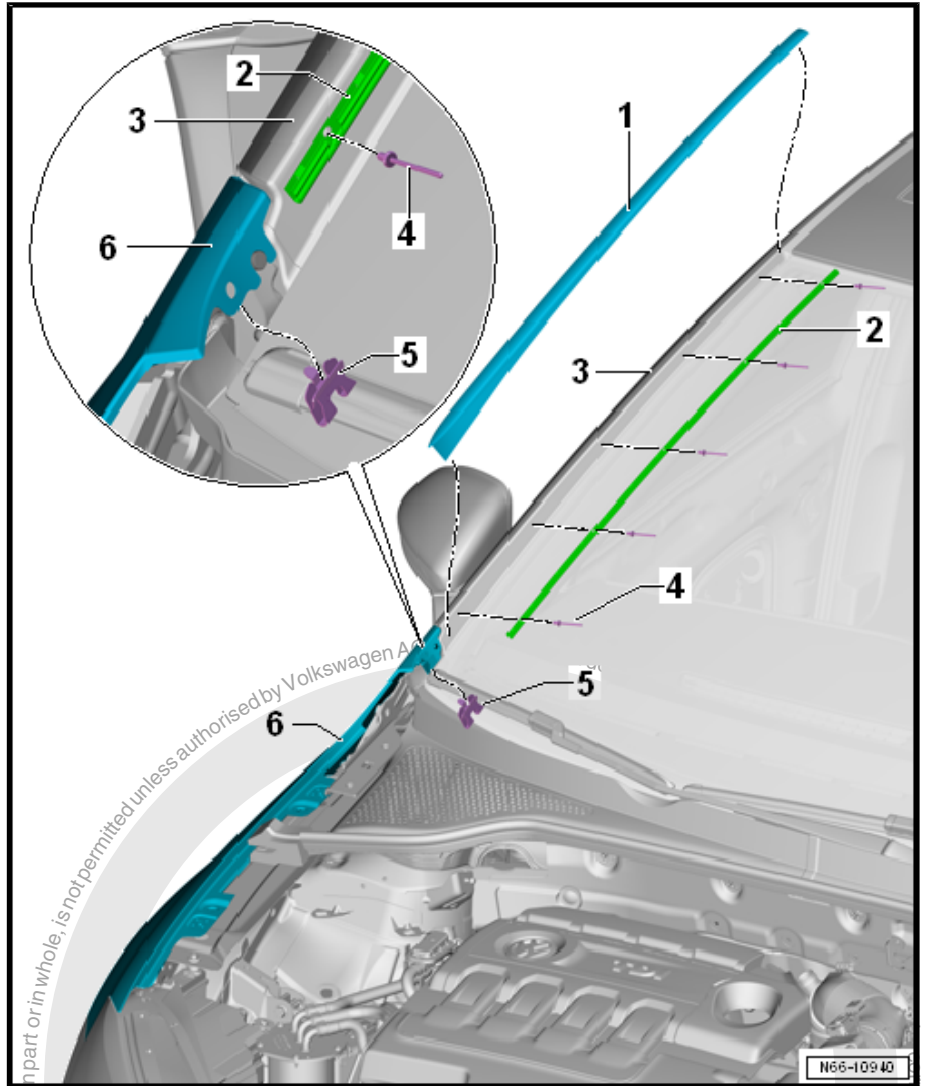
- ❑ Quantity: 5
- ❑ Install with the Pop Rivet Pliers - VAS5072-

5 - Clip

- ❑ Install the clips in the fender opening and push forward, and turn 90°.

6 - Fender

- ❑ Removing and installing. Refer to
⇒ ["2.3 Fender, Removing and Installing", page 14](#).





3.2 Overview - Sill Panel Trim

⇒ [“3.2.1 Overview - Sill Panel Trim, GTI/GTD”, page 332](#)

⇒ [“3.2.3 Overview - Sill Panel Trim, R-Line and R”, page 334](#)

⇒ [“3.2.2 Overview - Sill Panel Trim, R, North American Region”, page 333](#)

3.2.1 Overview - Sill Panel Trim, GTI/GTD

1 - Sill Panel Trim

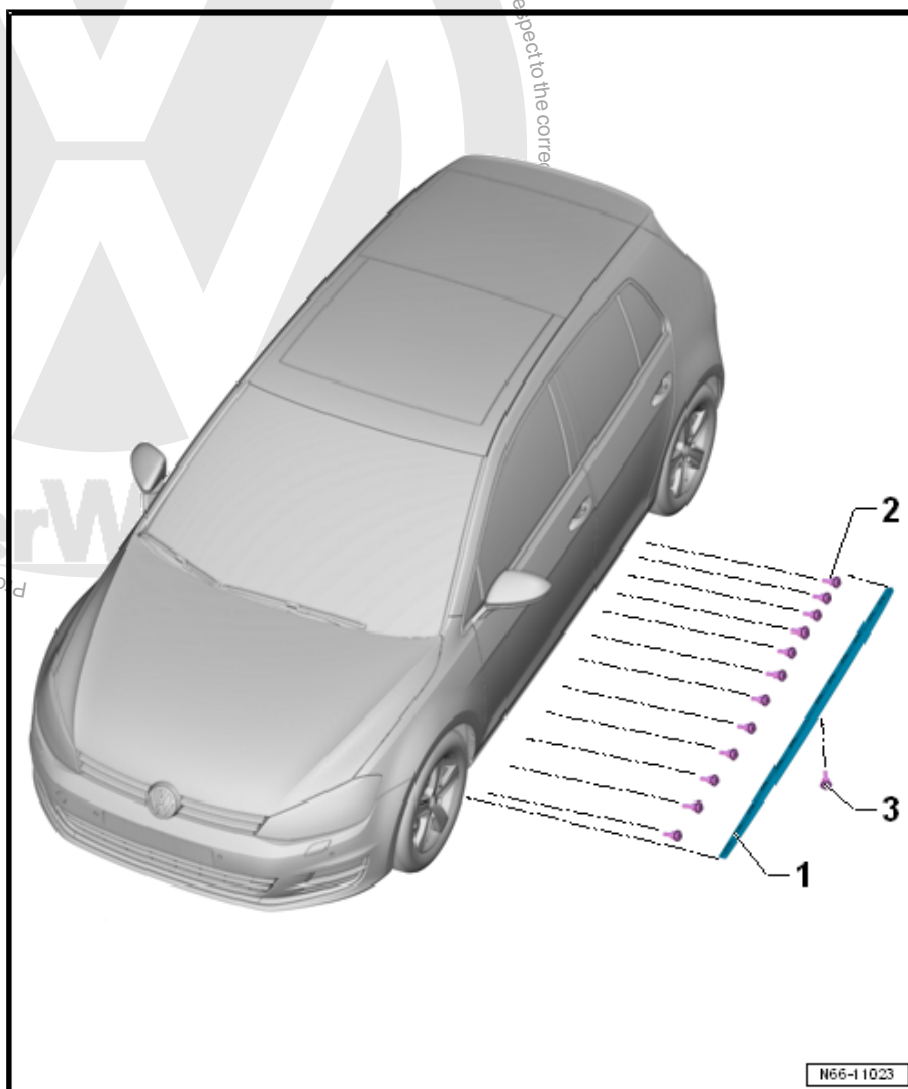
- ☐ Removing and installing. Refer to
⇒ [“3.5.1 Sill Panel Trim, Removing and Installing, GTI/GTD”, page 337](#).

2 - Bolt

- ☐ Quantity: 12
- ☐ 1.2 Nm
- ☐ Dimensional data. Refer to
⇒ [page 339](#)

3 - Bolt

- ☐ 2 Nm
- ☐ For attaching the sill panel trim
- ☐ Quantity: 1 on sill panel





3.2.2 Overview - Sill Panel Trim, "R", North American Region

1 - Screws

- ☐ 1.2 Nm
- ☐ Secures the retaining strip to the sill panel
- ☐ Installing. Refer to
⇒ ["3.5.4 Rocker Panel Extension Retaining Strip, Attaching, R, North American Region", page 347](#) .
- ☐ Quantity: 8

2 - Retaining Strip

- ☐ Installing. Refer to
⇒ ["3.5.2 Rocker Panel Extension, Removing and Installing, R-Line and R", page 340](#) .

3 - Expanding Nut

- ☐ Pressed onto the underbody

4 - Rocker Panel Extension

- ☐ Removing and installing. Refer to
⇒ ["3.5.2 Rocker Panel Extension, Removing and Installing, R-Line and R", page 340](#) .

5 - Screws

- ☐ 1.5 Nm
- ☐ Quantity: 2, front and rear sill panel

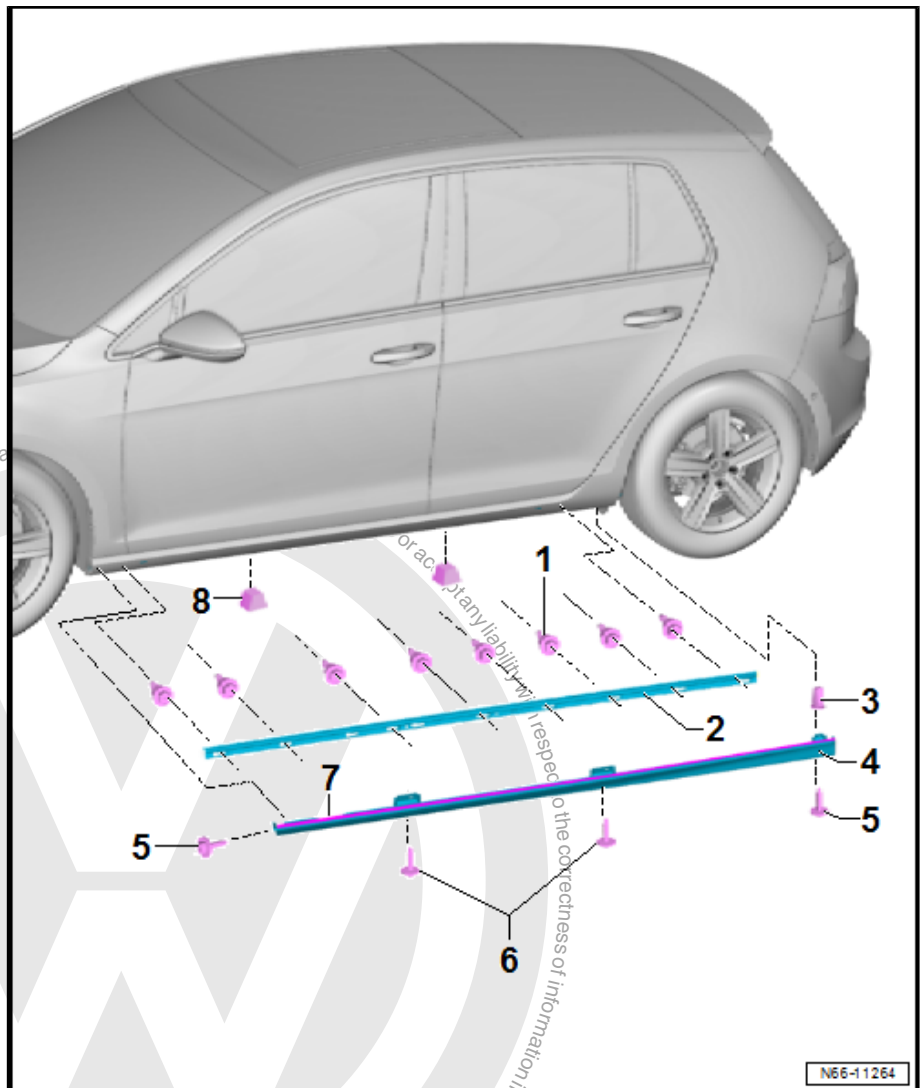
6 - Screws

- ☐ 2.2 Nm
- ☐ Quantity: 2, on sill underside

7 - Two-Sided Adhesive Tape

8 - Bracket

- ☐ Quantity: 2
- ☐ Secured to underbody with expanding clip





3.2.3 Overview - Sill Panel Trim, "R-Line" and "R"

1 - Bolt

- ☐ 1.2 Nm
- ☐ Secures retaining strip to sill panel
- ☐ Quantity: 9
- ☐ Installing. Refer to ➔ [page 343](#).

2 - Retaining Strip

- ☐ Installing. Refer to ➔ ["3.5.2 Rocker Panel Extension, Removing and Installing, R-Line and R"](#), [page 340](#).

3 - Expanding Nut

- ☐ Pressed onto the underbody

4 - Extended Sill Panel

- ☐ Removing and installing. Refer to ➔ ["3.5.2 Rocker Panel Extension, Removing and Installing, R-Line and R"](#), [page 340](#).

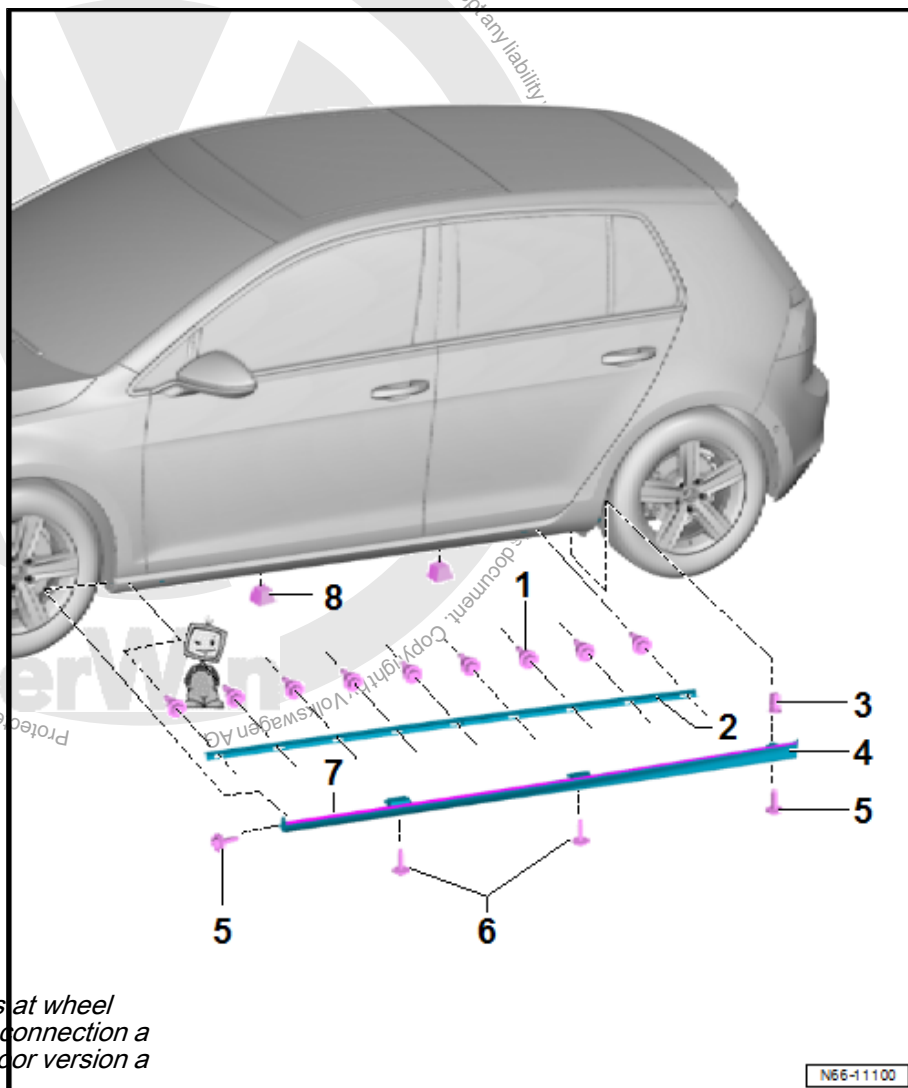
5 - Bolt

- ☐ 1.5 Nm
- ☐ Quantity 2 front and rear sill panel



Note

The 2-door version has at wheel housing liner threaded connection a round opening, the 4-door version a square opening.



6 - Bolt

- ☐ 2.2 Nm
- ☐ Quantity: 2, on sill underside

7 - Double Sided Adhesive Tape

8 - Bracket

- ☐ Quantity: 2
- ☐ Secured to underbody with expanding clip.



3.3 Overview - Heat Shield

1 - Underbody Heat Shield

- ☐ Removing and installing. Refer to
⇒ ["3.8 Floor Heat Shield, Removing and Installing", page 351](#).

2 - Lock Washer

- ☐ Quantity: 6

3 - Center Exhaust System Heat Shield

- ☐ Removing and installing. Refer to
⇒ ["3.9 Center Exhaust System Heat Shield, Removing and Installing", page 352](#).

4 - Lock Washer

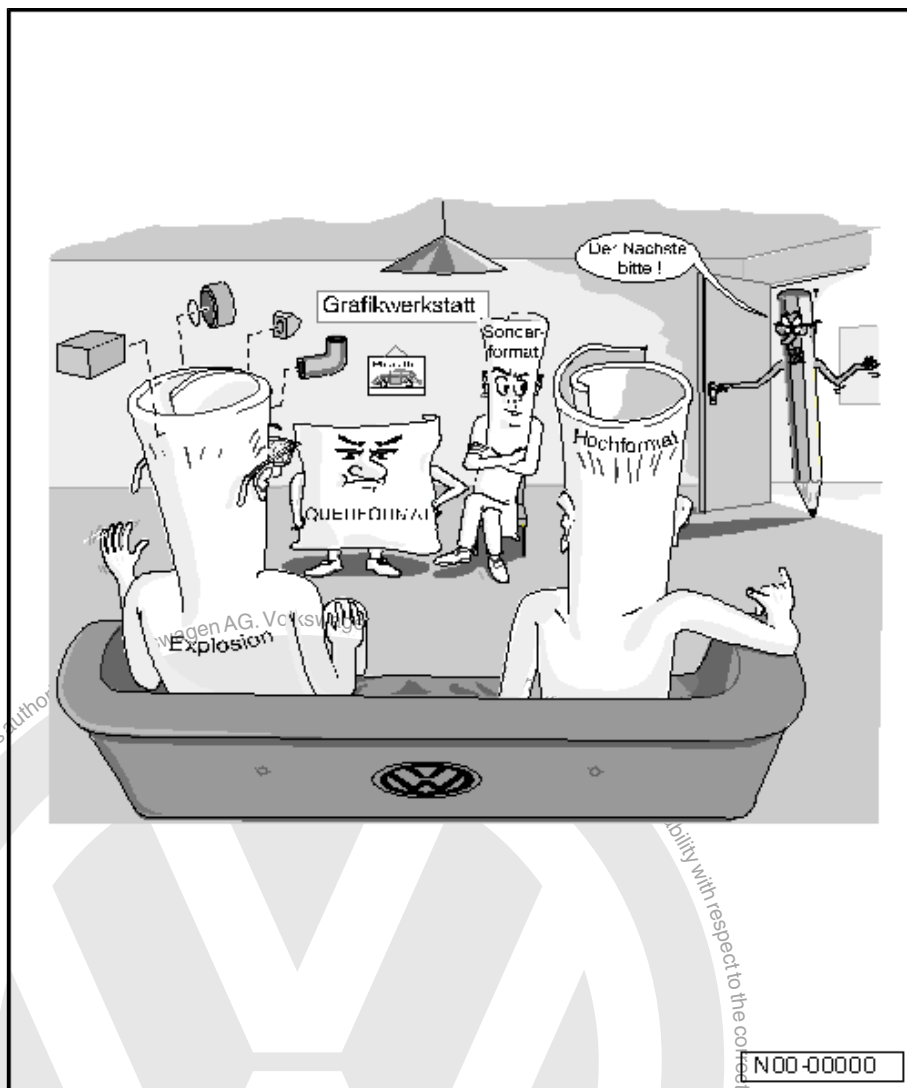
- ☐ Quantity: 2

5 - Muffler Heat Shield

- ☐ Removing and installing. Refer to
⇒ ["3.10 Rear Muffler Heat Shield, Removing and Installing", page 353](#).

6 - Lock Washer

- ☐ Quantity: 5



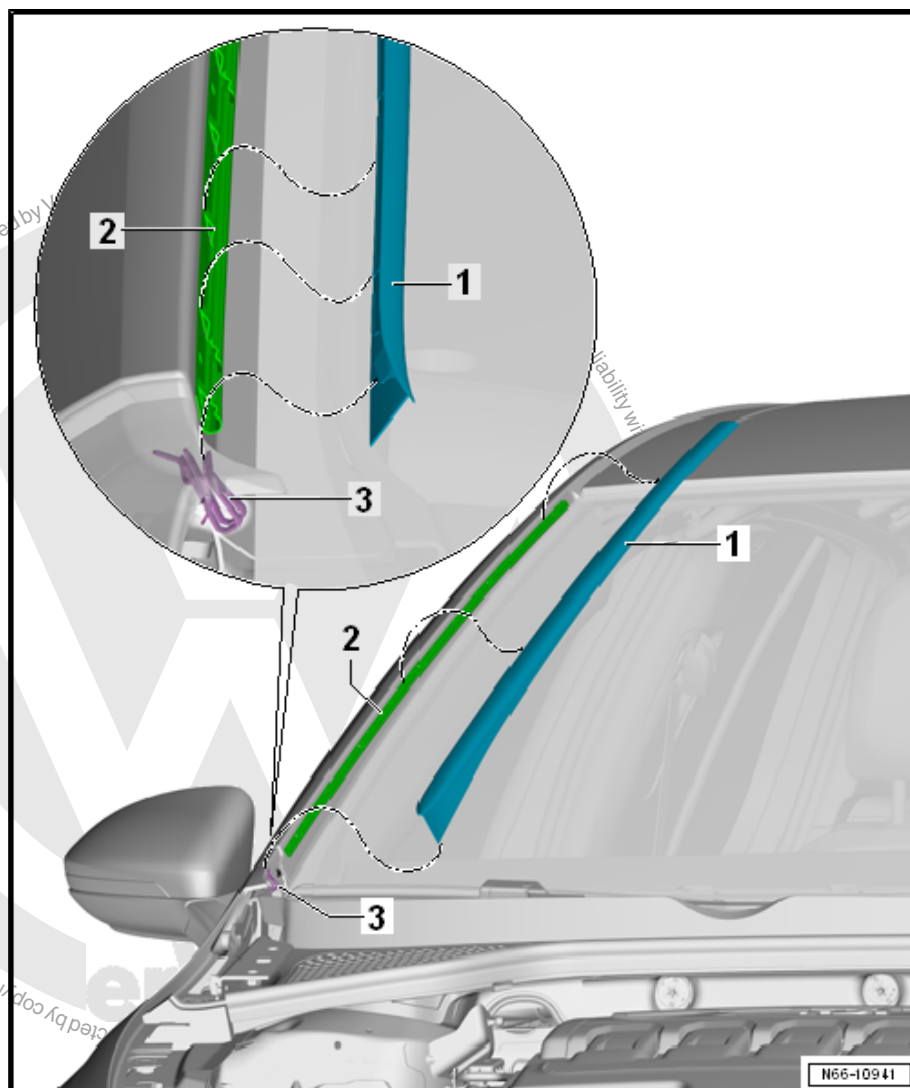


3.4 Drip Rail, Removing and Installing



Note

Removal and installation is described only for the left-hand side. Removing and installing right side is identical.



Removing

- Pull the drip rail -1- starting from below from the clip -3- and the retaining strip -2-.

Installing

- Install the upper inner drip rail edge -1- on the windshield upper edge.
- Push the drip rail -1- from above in the retaining strip -2- and clip -3-.
- Guide the drip rail sealing lip to the windshield behind the glass.



3.5 Sill Panel Trim

⇒ [“3.5.1 Sill Panel Trim, Removing and Installing, GTI/GTD”, page 337](#)

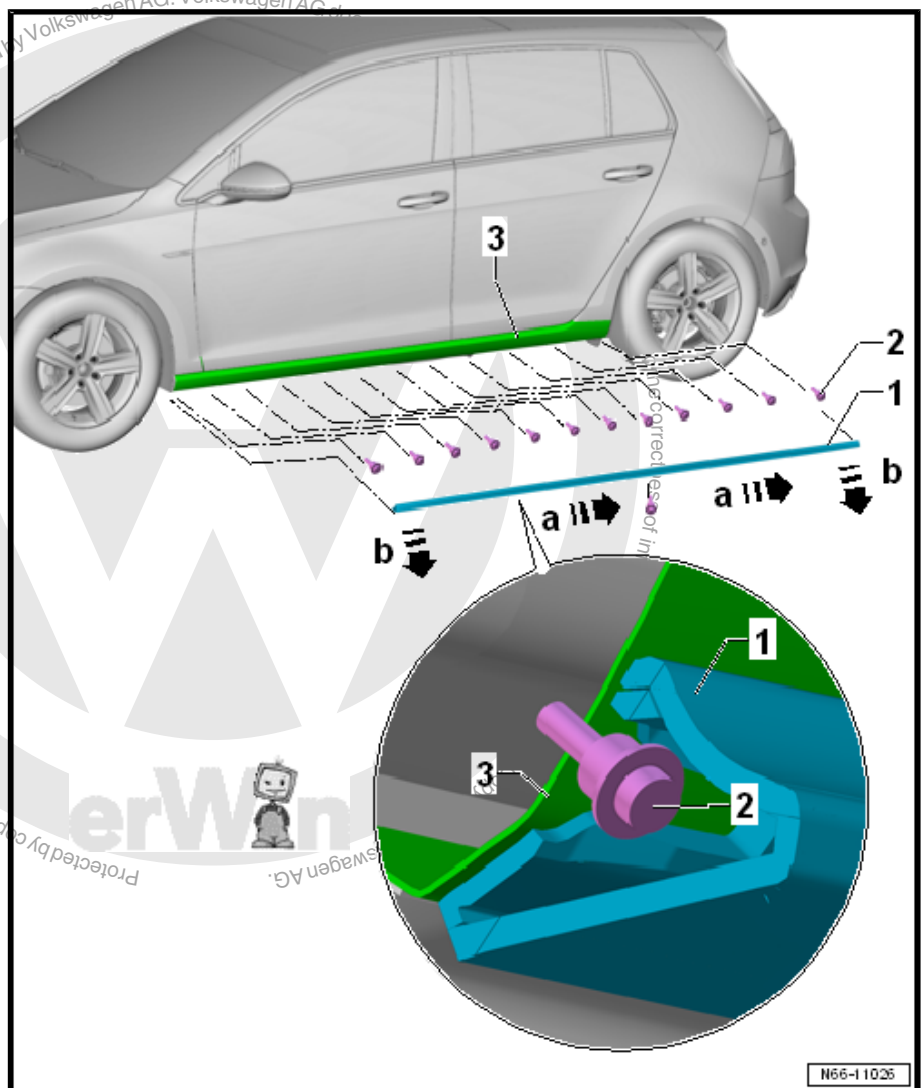
⇒ [“3.5.2 Rocker Panel Extension, Removing and Installing, R-Line and R”, page 340](#)

⇒ [“3.5.3 Rocker Panel Extension, Removing and Installing, R, North American Region”, page 344](#)

⇒ [“3.5.4 Rocker Panel Extension Retaining Strip, Attaching, R, North American Region”, page 347](#)

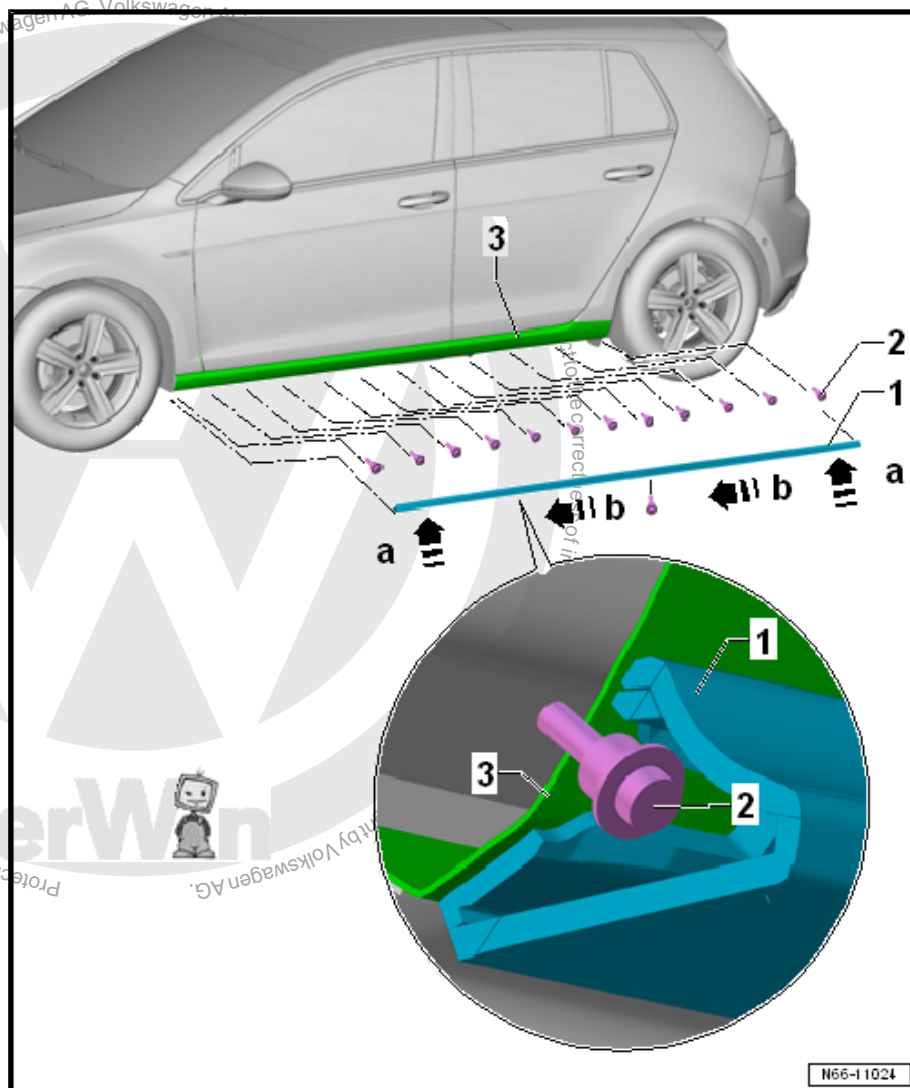
3.5.1 Sill Panel Trim, Removing and Installing, GTI/GTD

Removing



- Remove the outer screw from the sill panel trim.
- Push the sill panel trim -1- rearward -a arrows-, until the sill panel trim is loosened from all screws -2-.
- Remove the sill panel trim -1- from the sill panel -b arrows-.

Installing



- Install the self-tapping screws -2- using the Cordless Drill - VAS5036- at the highest RPM until the thread engages.
- The cordless drill must now be set aside.
- Tighten the screws to the lowest tightening specification so that screw is not overtightened.
- Position the sill panel trim -1- evenly -a arrows- with the openings on the back over all of the screws -2- until the sill panel trim touches the sill panel -3-.

Position the sill panel trim with a second technician so that all screws remain in the openings when sliding it on.

- Push the sill panel trim forward forcefully until stop -b arrows-.
- Install the outer screw in the sill panel trim.



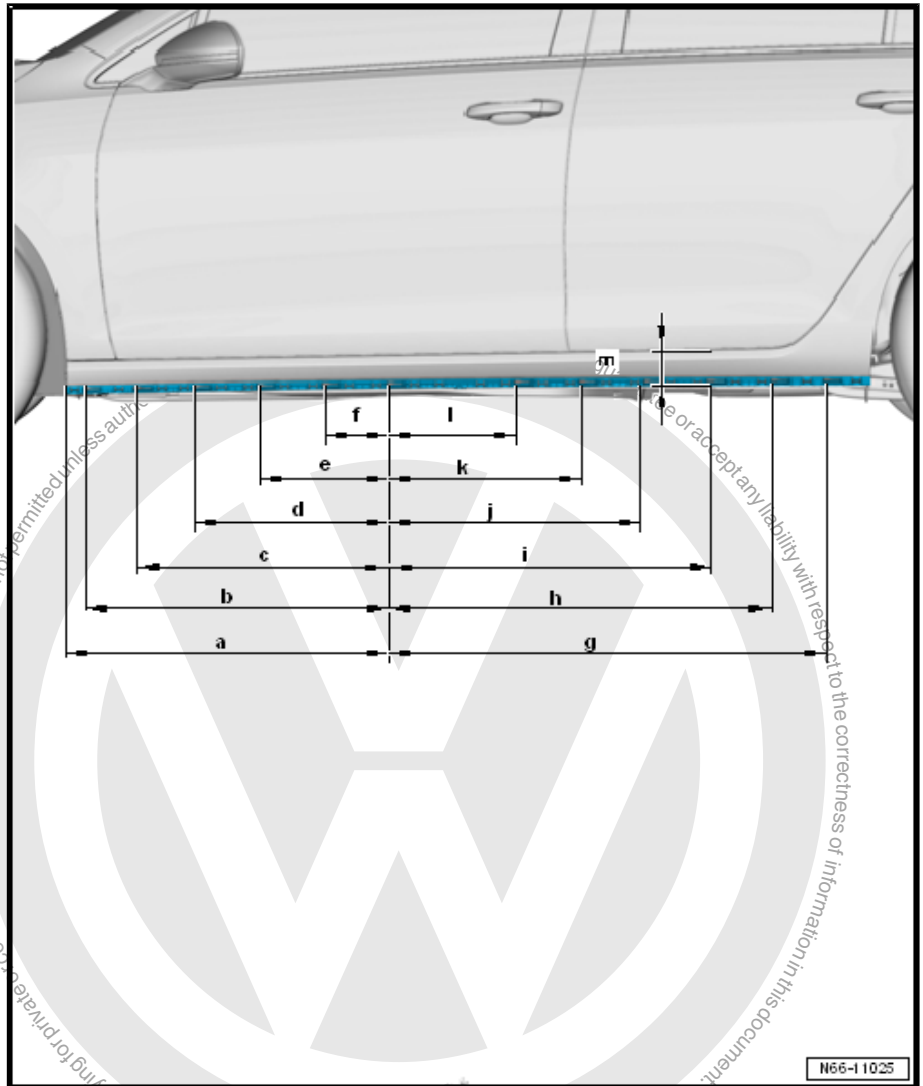
Tightening Specifications

Dimensions



Note

- ◆ The screws for the sill panel trim are corrosion-resistant. Additional treatment is not necessary.
- ◆ If a screw is overtightened, it must always be replaced with a "black" oversized screw.



- Measure the holes according to the table below.
- Punch the holes for the screws.
- Pre-drill the holes using a 1.5 mm drill.



Note

- ◆ *Dimension -a- is measured including the wheel housing liner -1-. Dimensions -b through l- are always measured from the center hole outward.*
- ◆ *Dimension -m- is only measured on a 4-door in the rear area.*
- ◆ *For a 2-door vehicle, the dimension -m- must be aligned in height according to the front holes.*

Dimensions table

Dimension -a-	= 781 mm
Dimension -b-	= 713 mm
Dimension -c-	= 593 mm
Dimension -d-	= 453 mm
Dimension -e-	= 303 mm
Dimension -f-	= 152 mm
Dimension -g-	= 1028 mm
Dimension -h-	= 906 mm
Dimension -i-	= 755 mm
Dimension -j-	= 604 mm
Dimension -k-	= 453 mm
Dimension -l-	= 302 mm
Dimension -m-	= 50 mm

3.5.2 Rocker Panel Extension, Removing and Installing, “R-Line” and “R”



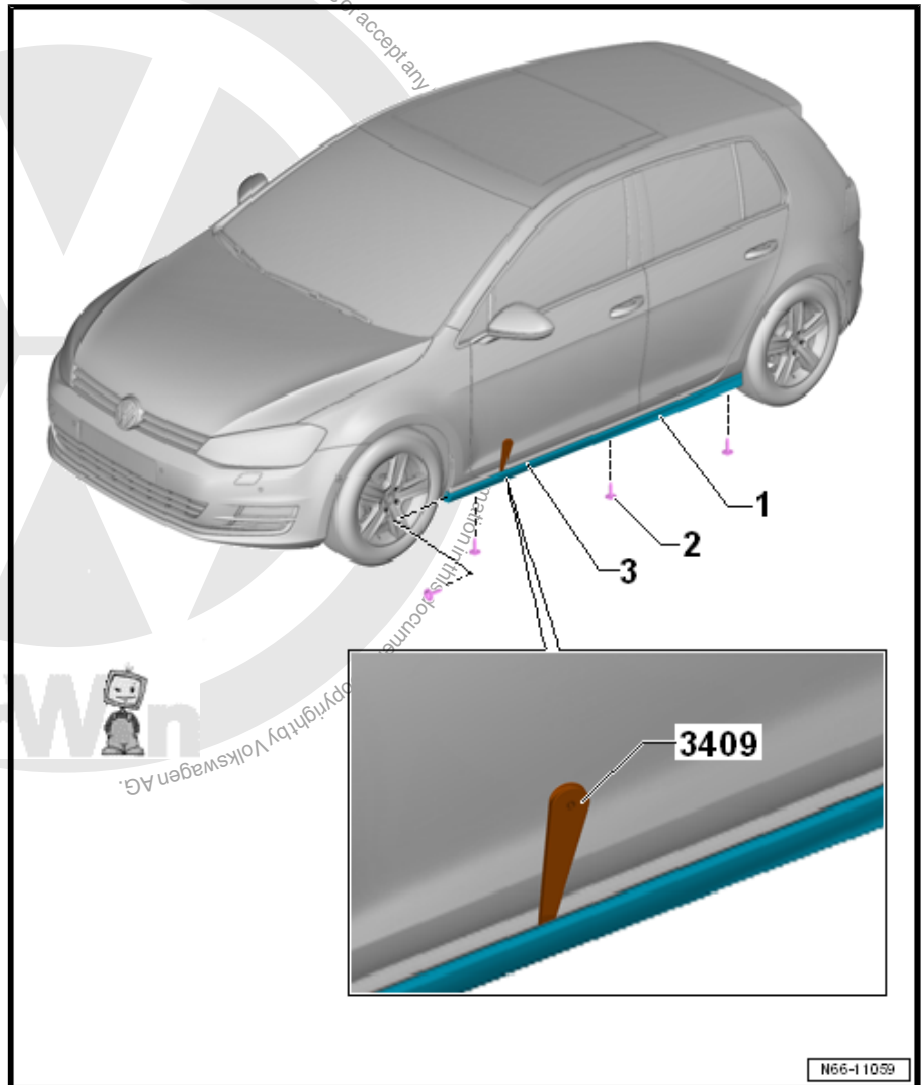
Note

*The removal and installation is only shown on a 4-door version.
The procedure for the 2-door version is identical.*

Special tools and workshop equipment required

- ◆ Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A-
- ◆ Trim Removal Wedge - 3409-

Removing



- Remove the bolts -2-.
- Warm the rocker panel extension -1- in the adhesive surface area -3- before removing with a Hot Air Blower VAG1416 - VAG1416- .
- Carefully guide the Trim Removal Wedge - 3409- between the sill panel and the rocker panel extension -1-.
- As soon as the bonded joint loosens, disengage the rocker panel extension -1- upward from the retaining strip.

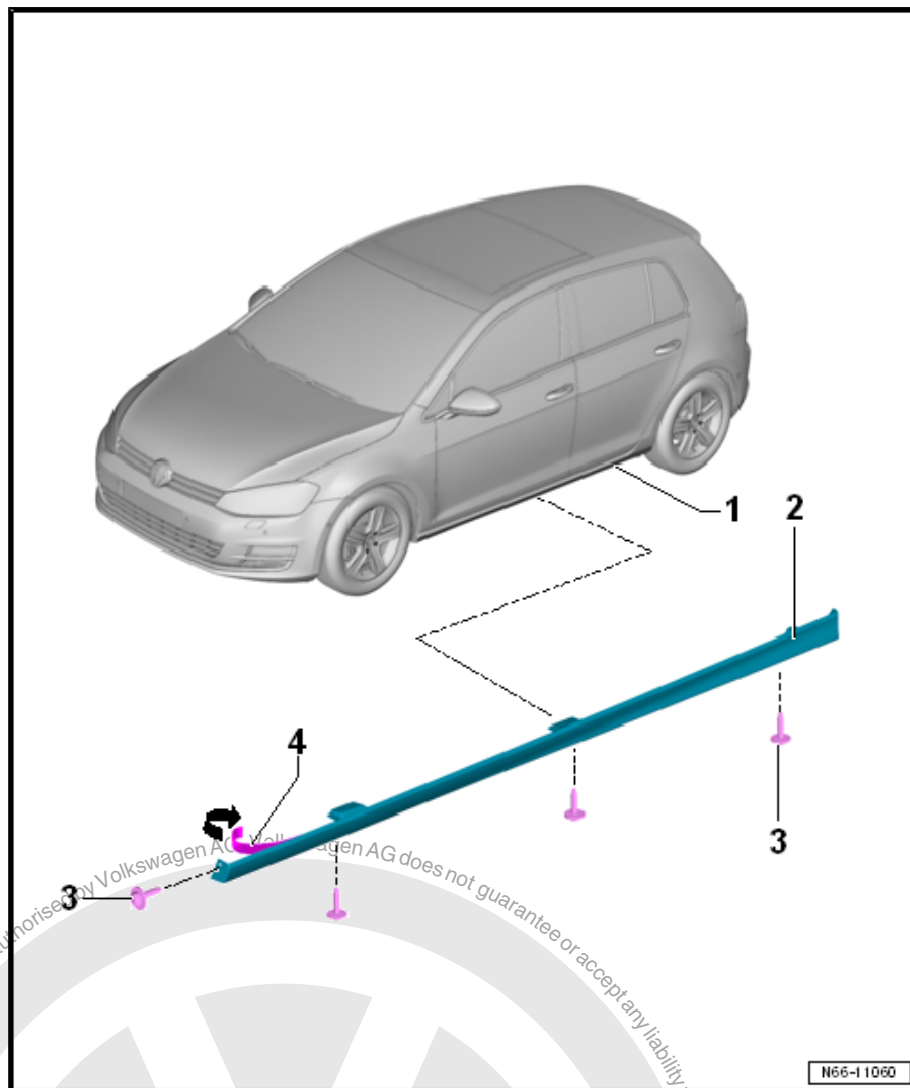
Installing

Assembly Instructions

- ◆ Adhesion surfaces must be free of dust and grease.
- ◆ If installing the rocker panel extension for the first time on a commercial vehicle or a newly painted surface, follow the procedure described in Paint Repair Manual.
- ◆ If removing or installing the rocker panel extension, only use the adhesive remover to remove the adhesive residue.
- ◆ Always clean adhesive surfaces immediately before applying the rocker panel extension with adhesive remover and cleaning solution.
- ◆ Apply the rocker panel extension immediately after cleaning.



- ◆ Only remove the protective film right before assembly. Processing temperature approx. 21 °C (70 °F).
- ◆ Stand time after installing rocker panel extension is approximately four hours at an ambient temperature of approx. 21 °C (70 °F).



Follow the installation instructions. Refer to [⇒ page 341](#) .

- Engage the rocker panel extension -2- in the retaining strip -1-.
- Align the rocker panel extension -2- in the longitudinal vehicle direction.
- Install the bolts -3- on the front sill-side.
- Align the rocker panel extension -2- on the vehicle.
- Install the bolts -3- on the lower sill-side.
- Check the position of the rocker panel extension -2-.
- Remove the protective film -4- from the two-sided adhesive tape on the rocker panel extension -2- upward-rearward.
- Press on the rocker panel extension -2- evenly in the adhesive surface area firmly.



- Tighten the bolts -3- on the front sill-side.

Tightening specification

Rocker panel extension retaining strip

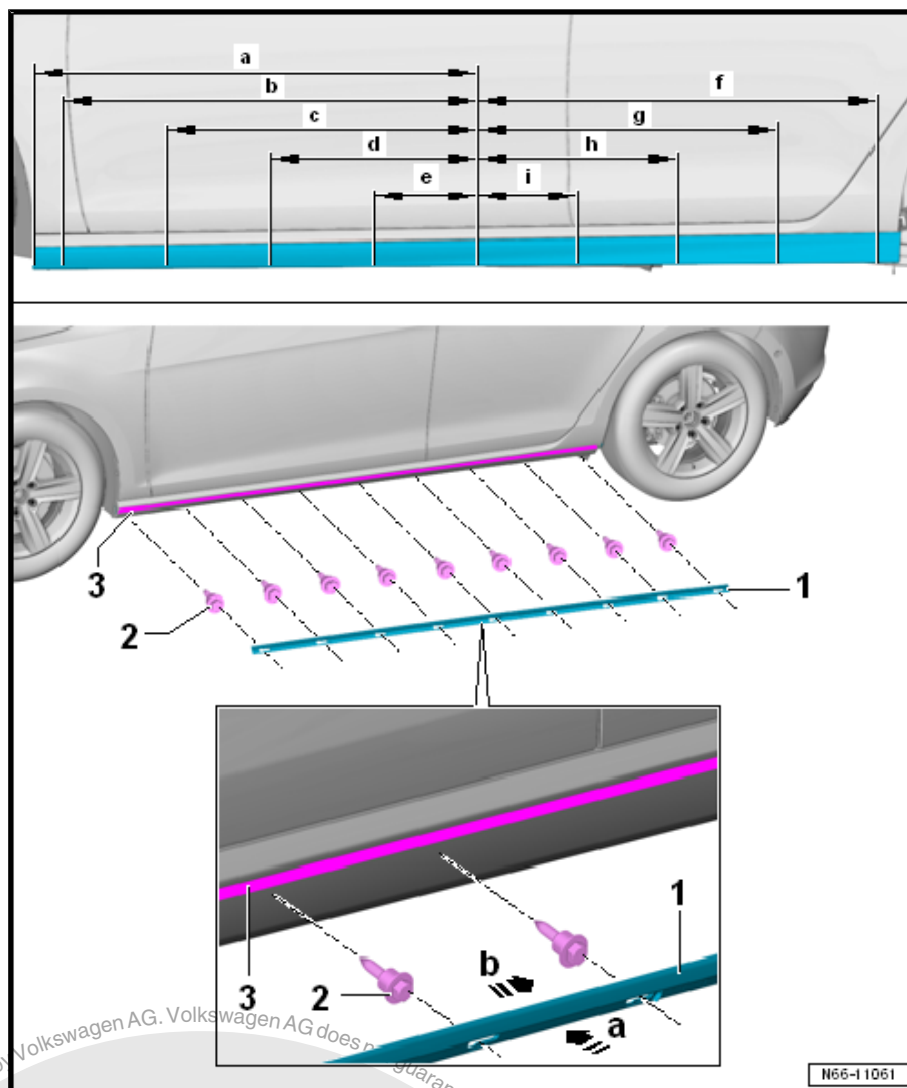


Note

- ◆ *The assembly is only shown for the left rocker panel extension retaining strip. The procedure is identical for the right rocker panel extension retaining strip.*
- ◆ *The bolts for the retaining strip are corrosion-resistant. It does not need any further treatment.*
- ◆ *If a screw is overtightened, replace it with a "black" oversize screw.*
- There are no holes for the screws.
- Align the holes according to the table or use the retaining strip as a template.
- Punch the holes for the bolts.
- Drill the holes with a 1.5 mm drill.

Dimensions Table

Dimension -a-	= 964 mm
Dimension -b-	= 896 mm
Dimension -c-	= 672 mm
Dimension -d-	= 478 mm
Dimension -e-	= 244 mm
Dimension -f-	= 896 mm
Dimension -g-	= 672 mm
Dimension -h-	= 448 mm
Dimension -i-	= 244 mm



- Install the self-tapping bolts -2- using the Cordless Drill - VAS5036- with the highest RPM until the thread engages.
- Remove the Cordless Drill - VAS5036- now.
- Tighten the bolt -2- to the lowest tightening specification.
- Install the retaining strip -1- evenly -a arrows- with openings over all screws -2- until the retaining strip touches the sill panel -3-.

Install the retaining strip with a second mechanic so that all screws remain in the openings when molding is slid on.

- Push the retaining strip -1- until stop rearward -b arrows-.

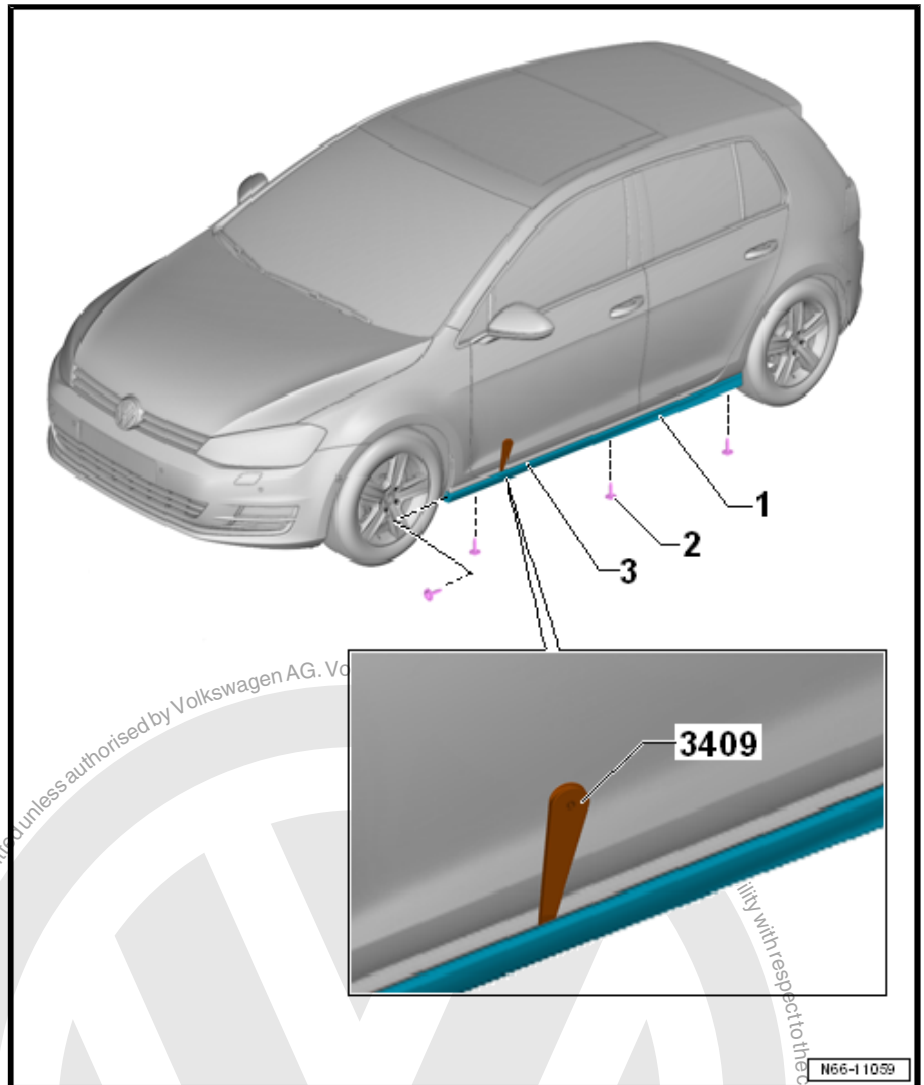
Tightening specification

3.5.3 Rocker Panel Extension, Removing and Installing, “R”, North American Region

Special tools and workshop equipment required

- ♦ Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A-
- ♦ Trim Removal Wedge - 3409-

Removing



- Remove the bolts -2-
- Before removing, warm the rocker panel extension -1- in the adhesive surface area -3- using a Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A- .
- Carefully guide the Trim Removal Wedge - 3409- between the sill panel and the rocker panel extension -1-.
- As soon as the bonded joint loosens, disengage the rocker panel extension -1- upward from the retaining strip.

Installing

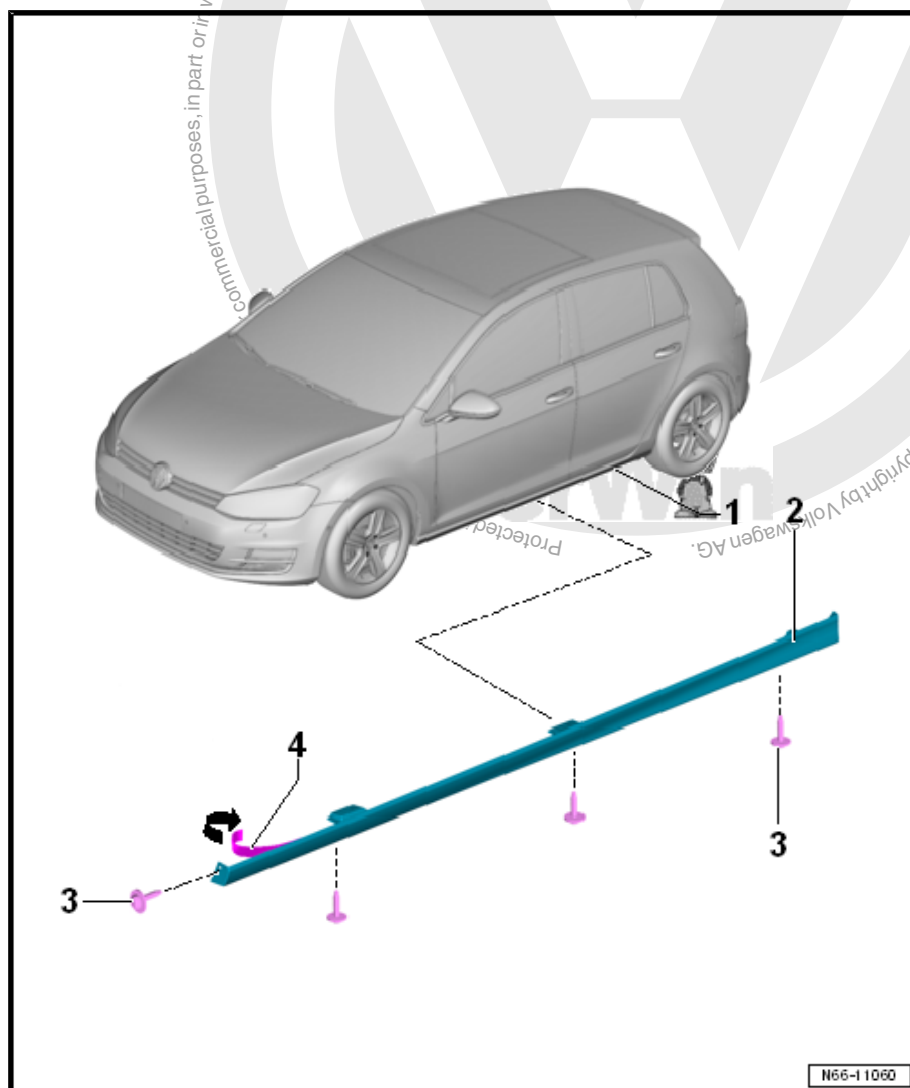
Install in reverse order of removal. Note the following:

Assembly Instructions

- ◆ The adhesive surfaces must be free of dust and grease.
- ◆ If installing the rocker panel extension for the first time on a commercial vehicle or newly painted surfaces, follow the procedure described in Paint Repair Manual.
- ◆ If removing or installing the rocker panel extension, only use the Adhesive Remover - D 002 00 A2- to remove the adhesive residue.



- ◆ Thoroughly clean the adhesive surfaces with Adhesive Remover - D 002 00 A2- and Cleaning Solution - D 009 401 04- just before bonding the rocker panel extension.
- ◆ Apply the rocker panel extension immediately after cleaning.
- ◆ Only remove the protective film right before assembly. Processing temperature approximately 21 °C (70 °F).
- ◆ Waiting period after installing the rocker panel extensions is approximately four hours at a room temperature of approximately 21 °C (70 °F).



Follow the assembly instructions. Refer to ➔ [page 345](#) .

- Engage the rocker panel extension -2- in the retaining strip -1-.
- Align the rocker panel extension -2- in the longitudinal vehicle direction.
- Position the screw -3- on the front sill-side.
- Align the rocker panel extension -2- on the vehicle.
- Install the screws -3- on the lower sill-side.
- Check the position of the rocker panel extension -2-.



- Remove the protective film -4- of the two-sided adhesive tape on the rocker panel extension -2- from the top to the rear.
- Press on the rocker panel extension -2- evenly in the adhesive surface area firmly.
- Tighten the screw -3- on the front sill-side.

Tightening Specifications

3.5.4 Rocker Panel Extension Retaining Strip, Attaching, "R", North American Region

Special tools and workshop equipment required

- ◆ Cordless Drill - VAS5036-



Note

- ◆ *The assembly is only shown for the left rocker panel extension retaining strip. The procedure is identical for the right rocker panel extension retaining strip.*
- ◆ *The screws for the retaining strip are corrosion-resistant. Additional treatment is not necessary.*
- ◆ *If a screw is overtightened, it must always be replaced with a "black" oversized screw.*

If there are no holes available for the screws, they must be drilled in.

- Measure the holes according to the table below or use the retaining strip as a template.
- Punch the holes for the screws.
- Pre-drill the holes with a 1.5 mm drill bit.

Dimensions Table

Dimension -a-	= 964 mm
Dimension -b-	= 896 mm
Dimension -c-	= 672 mm
Dimension -d-	= 357 mm
Dimension -e-	= 896 mm
Dimension -f-	= 672 mm
Dimension -g-	= 448 mm
Dimension -h-	= 244 mm

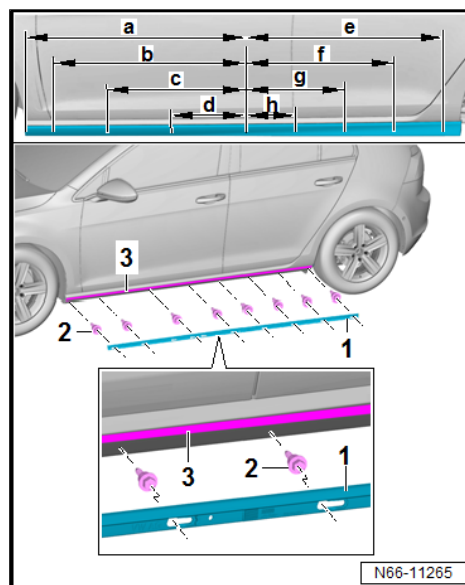


- Install the self-tapping screws -2- using the Cordless Drill -VAS5036- at the highest RPM until the thread engages.
- Tighten the screws -2-.
- Position the retaining strip -1- evenly with the openings over all of the screws -2- until the retaining strip -1- touches the sill panel -3-.

Position the retaining strip with a second technician so that all screws remain in the openings when sliding it on.

- Push the retaining strip -1- toward the rear to the stop.

Tightening Specifications



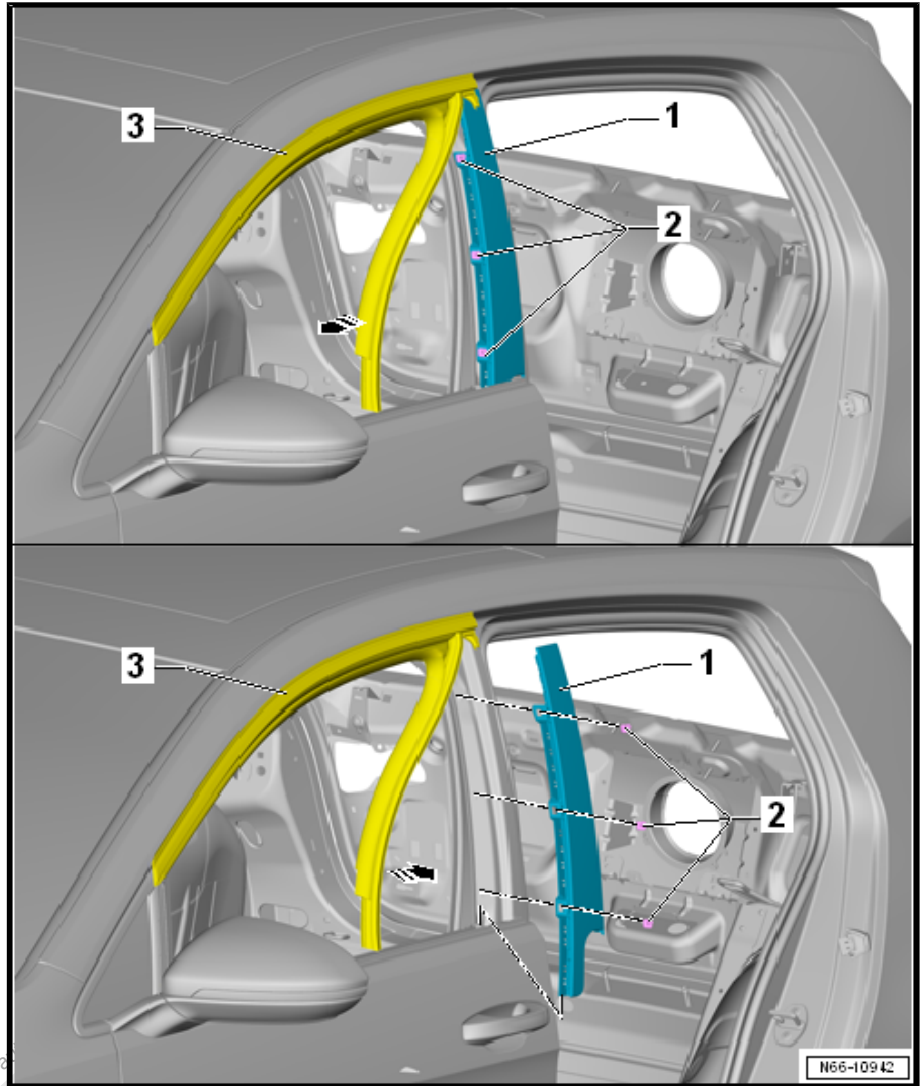
Component	Tightening Specification
Screw	1.2 Nm

3.6 Front Door B-Pillar Trim, Removing and Installing



Note

Removal and installation is described only for the left-hand side. Removing and installing right side is identical.



Removing

- Lower the door window.
- Remove the window guide -3- in the area of the B-pillar trim -1- from the door frame.
- Unclip the expanding rivet -2-.
- Push the B-pillar trim -1- downward and remove from the door frame.
- Remove the B-pillar trim -1- upwards.

Installing

- Install the B-pillar trim -1- on the door frame.
- Guide the trim -1- downward and position it.
- Push the trim -1- upward until it touches the window guide -3-.
- Clip in the expanding rivets -2- from the top to the bottom and insert the window guide -3- in the B-pillar trim.

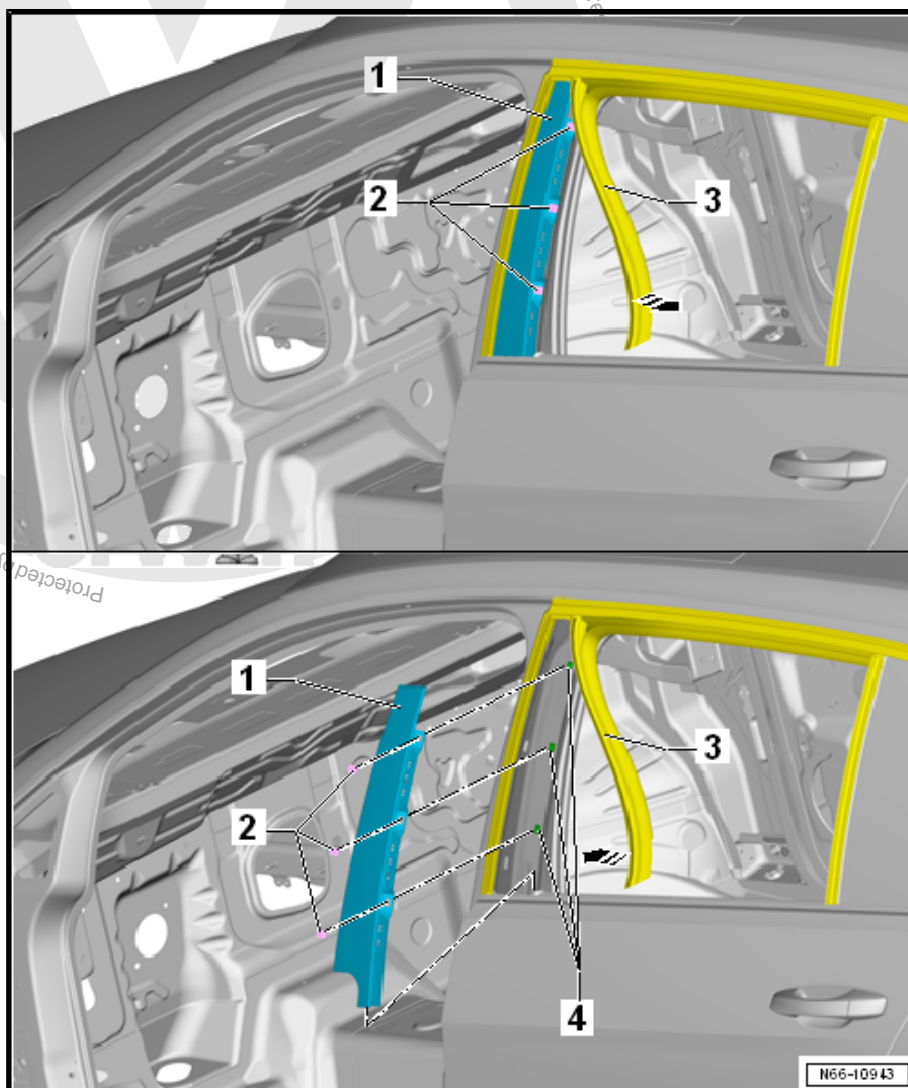


3.7 Rear Door B-Pillar Trim, Removing and Installing



Note

Removal and installation is described only for the left-hand side. Removing and installing right side is identical.



Removing

- Lower the door window.
- Remove the window guide -3- in the area of the B-pillar trim -1- from the door frame.
- Unclip the expanding rivet -2-.
- Push the B-pillar trim -1- downward and remove from the door frame.
- Remove the b-pillar trim -1- upwards.

Installing

- Install the B-pillar trim -1- on the door frame.
- Thread the B-pillar trim -1- in the oblong holes -4- in the frame section.



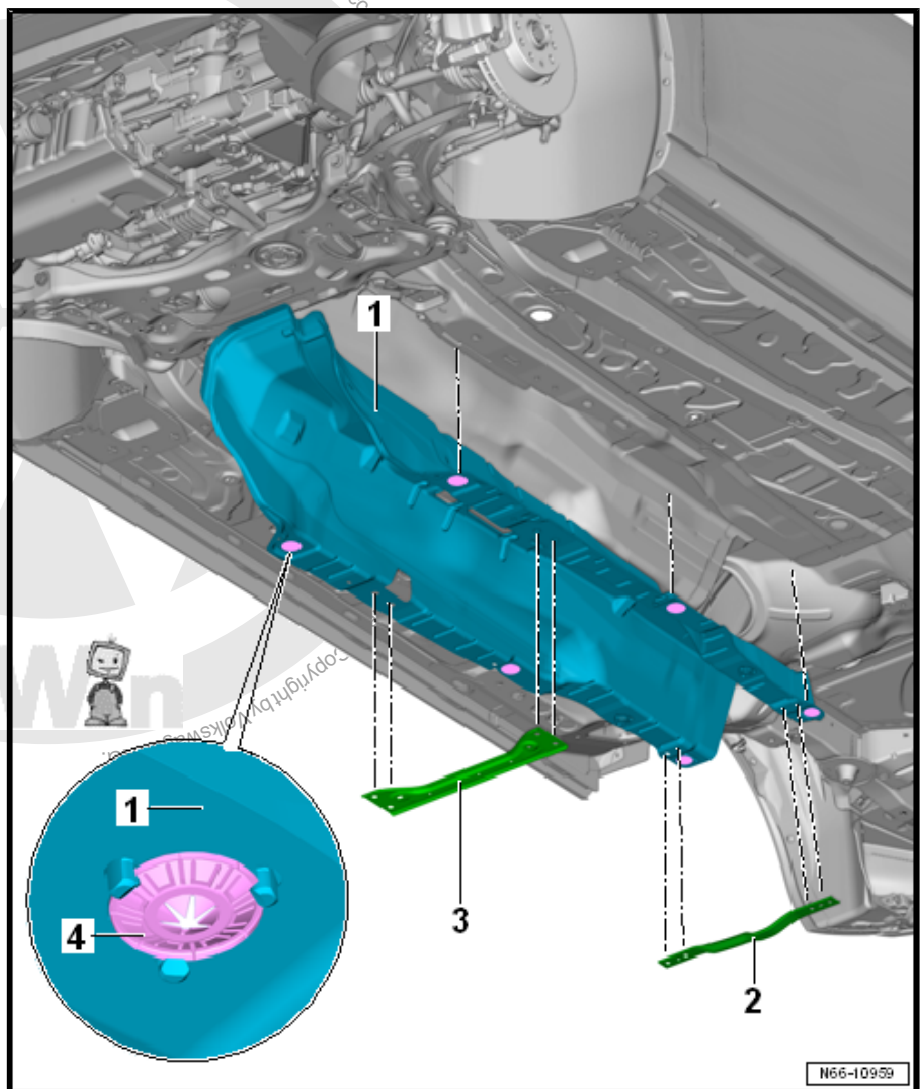
- Position the B-pillar trim -1- and push in until stop.
- Push the trim -1- upward until it touches the window guide -3-.
- Clip in the expanding rivets -2- from the top to the bottom and insert the window guide -3- in the B-pillar trim.

3.8 Floor Heat Shield, Removing and Installing



Note

Slight changes may have to be made to removal and installation procedures, depending upon engine installed in vehicle.



Removing

- Remove the center underbody panel. Refer to ["5.2 Underbody Panels, Removing and Installing", page 361](#).
- Remove the front tunnel bridge -3-. Refer to ["5.5 Front Tunnel Bridge, Removing and Installing", page 368](#).



- Remove the rear tunnel brace -2-. Refer to
⇒ [“5.6 Rear Tunnel Bridge, Removing and Installing”,
page 369](#) .
- Remove the rear exhaust system. Refer to ⇒ Engine Me-
chanical, Fuel Injection and Ignition; Rep. Gr. 26 ; Exhaust
Pipes/Mufflers; Overview - Muffler .
- Loosen the lock washers -4- (quantity 6) and remove the heat
shield tunnel -1- toward the rear.

Installing

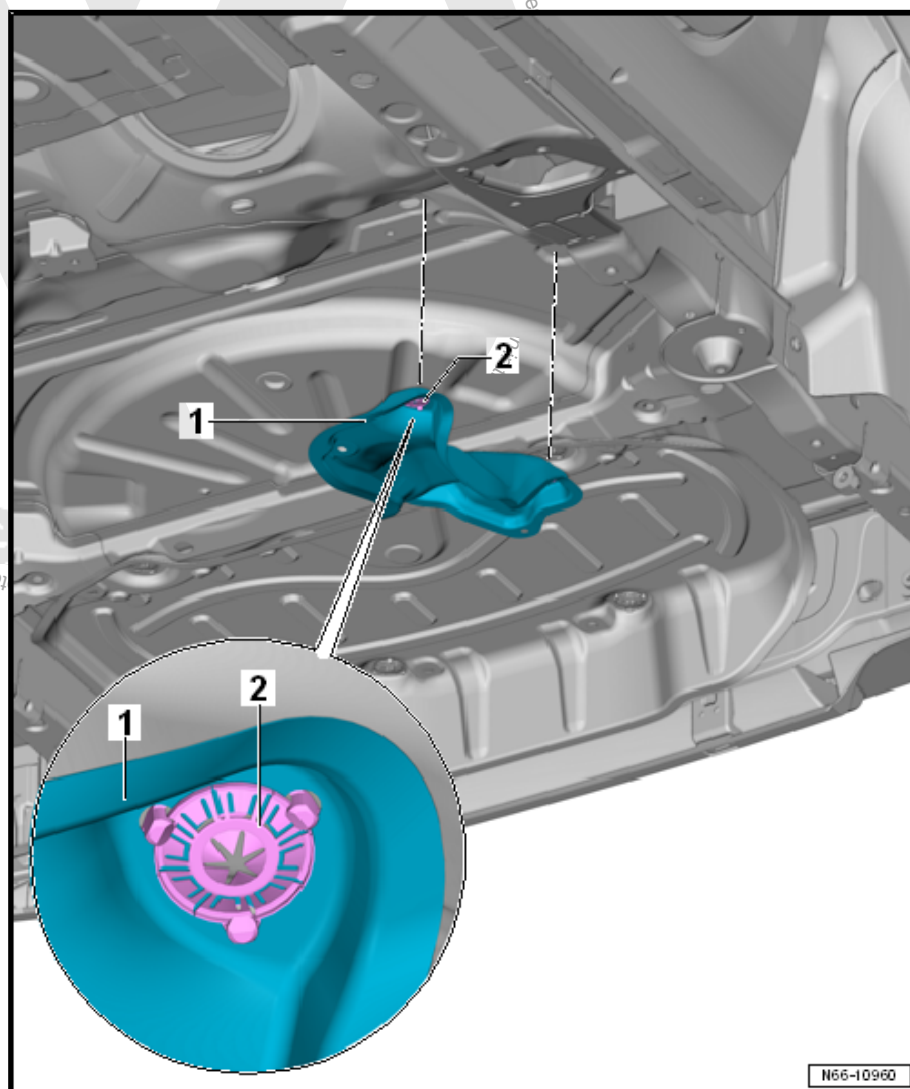
Install in reverse order of removal.

3.9 Center Exhaust System Heat Shield, Removing and Installing



Note

Slight changes may have to be made to removal and installation procedures, depending upon engine installed in vehicle.





Removing

- Remove the rear exhaust system. Refer to ⇒ Engine Mechanical, Fuel Injection and Ignition; Rep. Gr. 26 ; Exhaust Pipes/Mufflers; Overview - Muffler .
- Loosen the lock washers -2-.
- Remove the heat shield -1-.

Installing

Install in reverse order of removal.

3.10 Rear Muffler Heat Shield, Removing and Installing

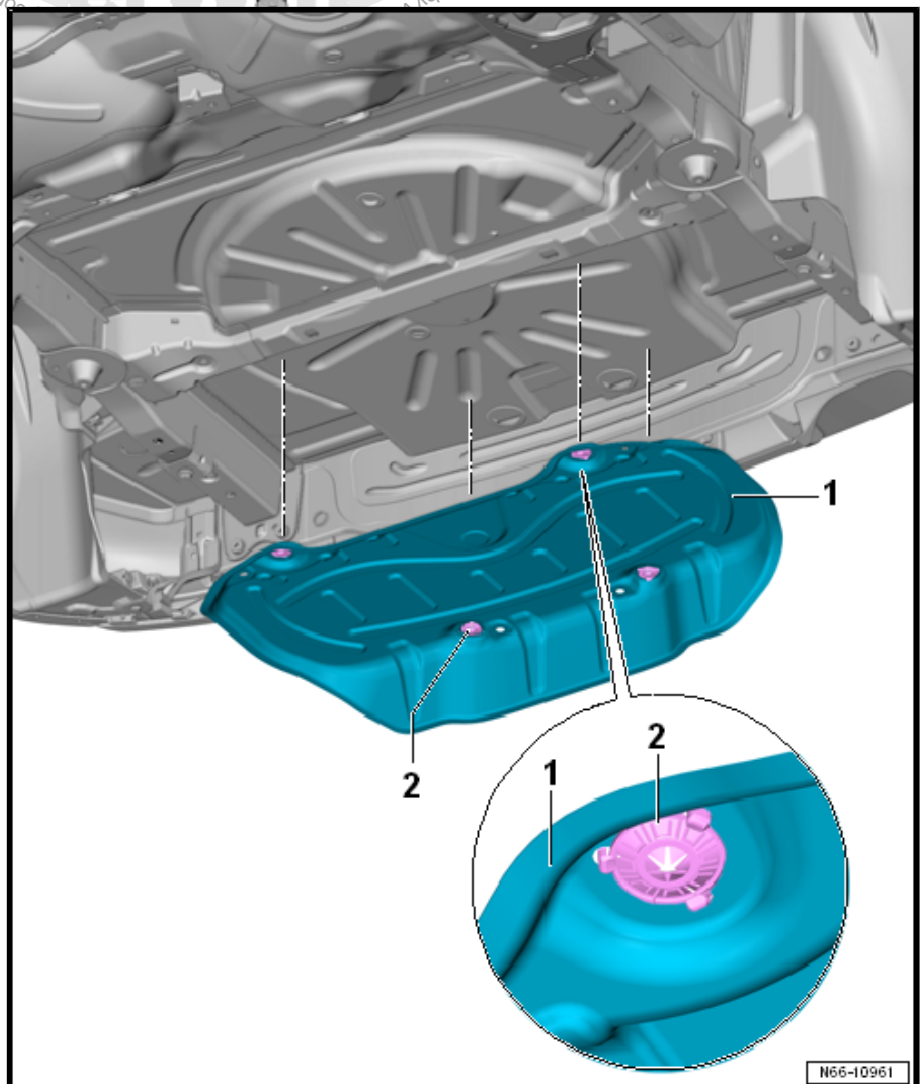
Special tools and workshop equipment required

- ◆ Engine and Gearbox Jack - VAS6931-



Note

Slight changes may have to be made to removal and installation procedures, depending upon engine installed in vehicle.



N66-10961



Removing

- Loosen the mounts for the rear muffler and lower the rear muffler slightly using the Engine/Gearbox Jack - VAG1383 A- . Refer to ➤ Engine Mechanical, Fuel Injection and Ignition; Rep. Gr. 26 ; Exhaust Pipes/Mufflers; Overview - Muffler .
- Loosen the lock washers -2-.
- Remove the heat shield -1-.

Installing

Install in reverse order of removal.





4 Noise Insulation

⇒ [“4.1 Overview - Noise Insulation”, page 355](#)

4.1 Overview - Noise Insulation

⇒ [“4.1.1 Overview - Noise Insulation, Short”, page 355](#)

⇒ [“4.1.2 Overview - Noise Insulation, Long”, page 356](#)

⇒ [“4.1.3 Overview - Impact Guard”, page 357](#)

4.1.1 Overview - Noise Insulation, Short



Note

Slight changes may have to be made to removal and installation procedures, depending upon engine installed in vehicle.

1 - Noise Insulation Short

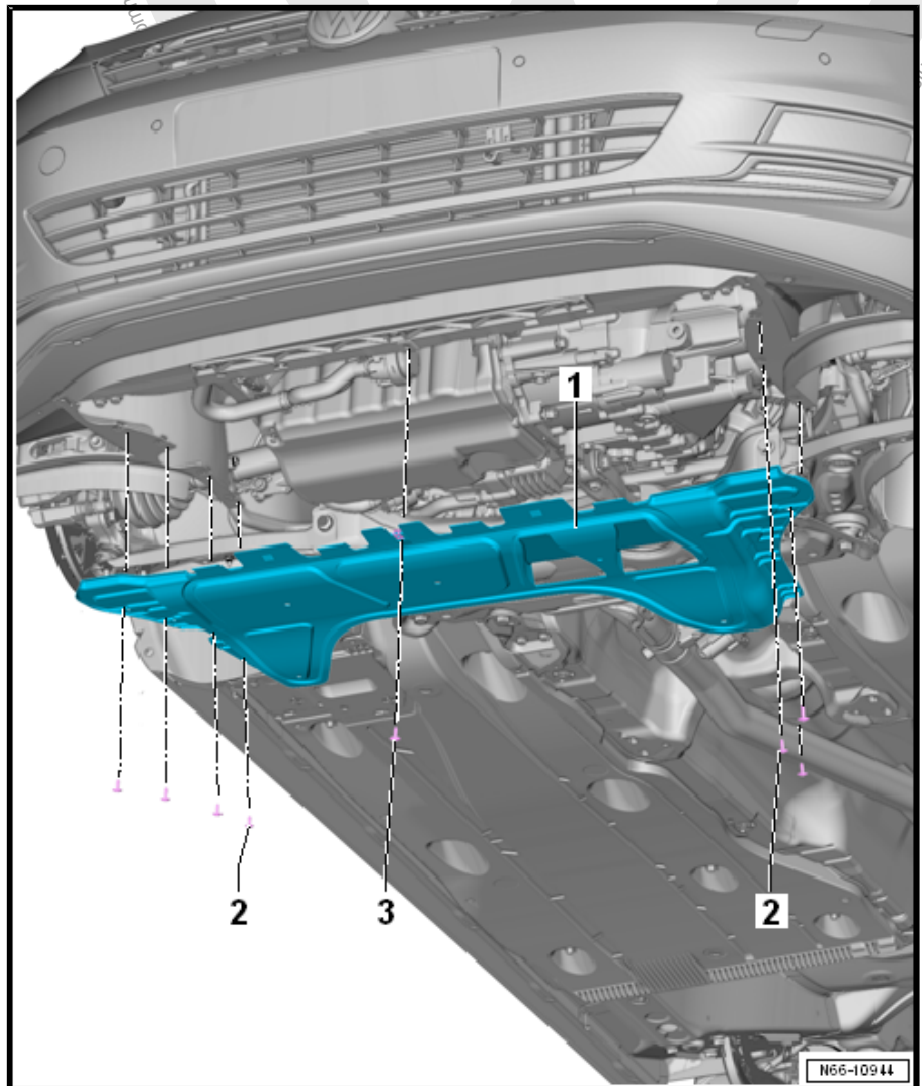
- ☐ Removing:
- Remove the bolts -2- and -3-.
- Remove noise insulation toward rear from lock carrier.

2 - Bolt

- ☐ Quantity: 3 on left
- ☐ Quantity: 4 on right
- ☐ 2.0 Nm

3 - Bolt

- ☐ Quantity: 1 on the lock carrier
- ☐ 1 Nm





4.1.2 Overview - Noise Insulation, Long



Note

Slight changes may have to be made to removal and installation procedures, depending upon engine installed in vehicle.

1 - Noise Insulation Short

- ☐ Removing:
 - Remove bolts -2-, -3- and -4-.
 - Remove noise insulation toward rear from lock carrier.

2 - Bolt

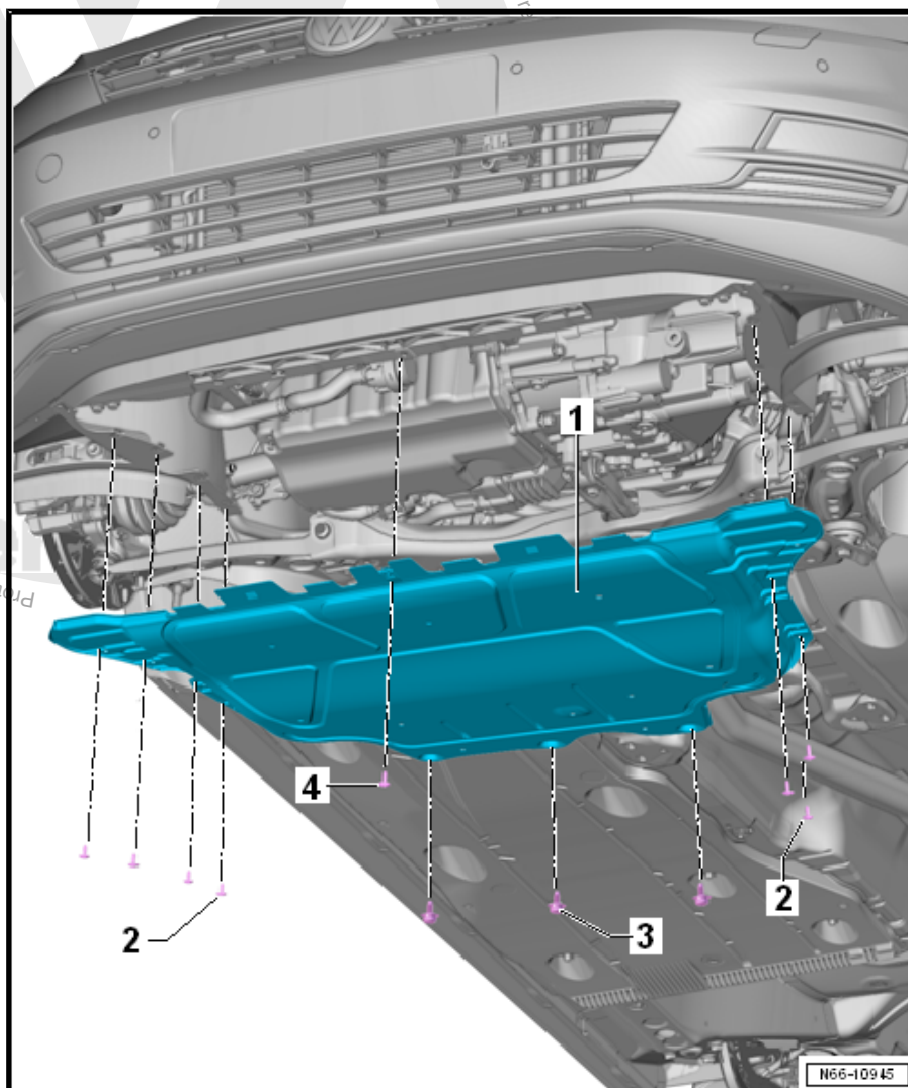
- ☐ 2.0 Nm
- ☐ Quantity: 3 on left
- ☐ Quantity: 4 on right

3 - Bolt

- ☐ 6.0 Nm
- ☐ Microencapsulated, to be replaced depending on the version
- ☐ Quantity: 3

4 - Bolt

- ☐ 1 Nm
- ☐ Quantity: 1 on the lock carrier





4.1.3 Overview - Impact Guard



Note

Slight changes may have to be made to removal and installation procedures, depending upon engine installed in vehicle.

1 - Impact Guard

- ☐ Removing:
- Remove bolts -2-, -3- and -4-.
- Remove noise insulation toward rear from lock carrier.

2 - Bolt

- ☐ 20 Nm
- ☐ Quantity: 2 for both the right and left sides

3 - Bolt

- ☐ 2.0 Nm
- ☐ Quantity: 3 on left
- ☐ Quantity: 4 on right

4 - Bolt

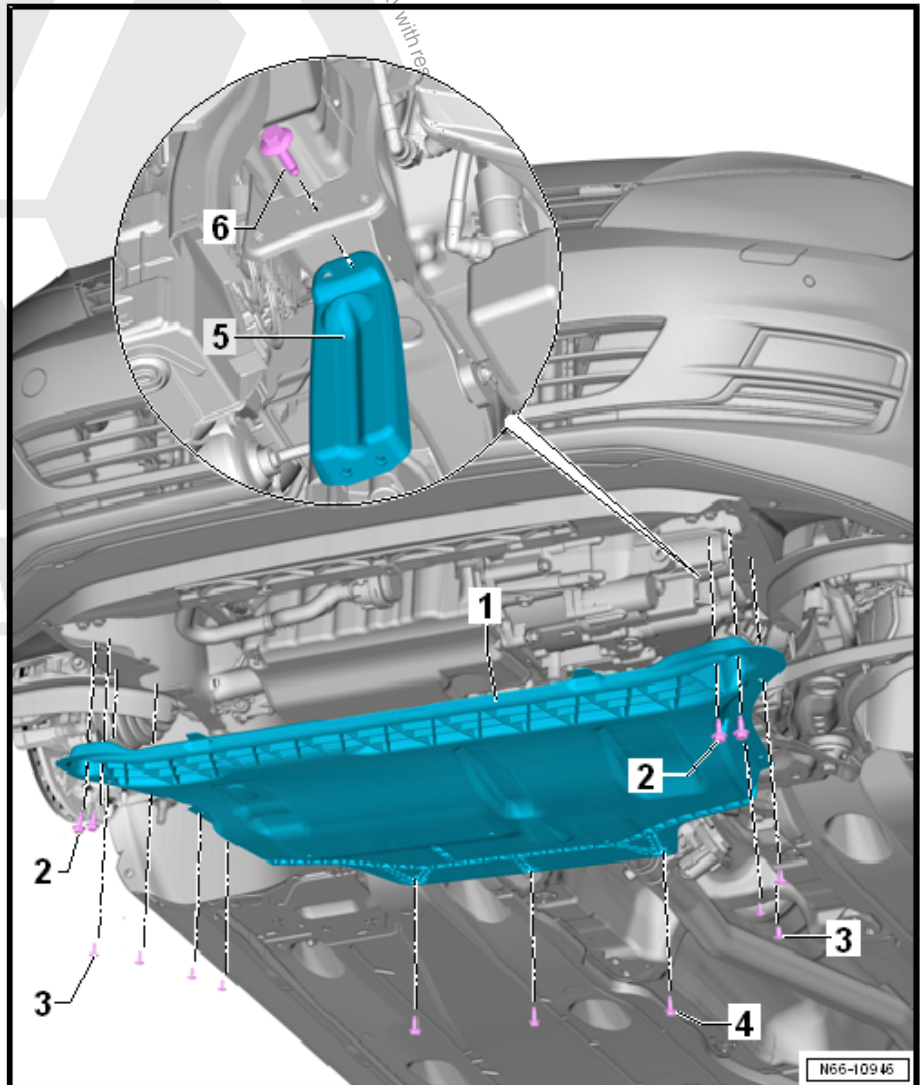
- ☐ 20 Nm
- ☐ Microencapsulated, to be replaced depending on the version
- ☐ Quantity: 3

5 - Bracket, Impact Guard

- ☐ Left and right

6 - Bolt

- ☐ 20 Nm
- ☐ Quantity: 1 on each side





5 Underbody Trim Panel

⇒ [“5.1 Overview - Underbody Panels”, page 358](#)

⇒ [“5.2 Underbody Panels, Removing and Installing”, page 361](#)

⇒ [“5.3 Center Underbody Panels, Removing and Installing”, page 364](#)

⇒ [“5.4 Rear Underbody Panel, Removing and Installing”, page 366](#)

⇒ [“5.5 Front Tunnel Bridge, Removing and Installing”, page 368](#)

⇒ [“5.6 Rear Tunnel Bridge, Removing and Installing”, page 369](#)

5.1 Overview - Underbody Panels

⇒ [“5.1.1 Overview - Underbody Panels, Gasoline/Diesel”, page 358](#)

⇒ [“5.1.2 Overview - Underbody Panel, e-Golf”, page 359](#)

5.1.1 Overview - Underbody Panels, Gasoline/Diesel

1 - Front cover

- ☐ Left and right
- ☐ Removing and installing. Refer to
⇒ [“5.2 Underbody Panels, Removing and Installing”, page 361](#) .

2 - Underbody Trim Panels

- ☐ Left and right
- ☐ Removing and installing. Refer to
⇒ [“5.2 Underbody Panels, Removing and Installing”, page 361](#) .

3 - Nut

- ☐ 2.0 Nm
- ☐ With retainer
- ☐ 7 on each side

4 - Rear Underbody Trim

- ☐ Removing and installing. Refer to
⇒ [“5.4 Rear Underbody Panel, Removing and Installing”, page 366](#) .

5 - Metal Nut

6 - Bolt

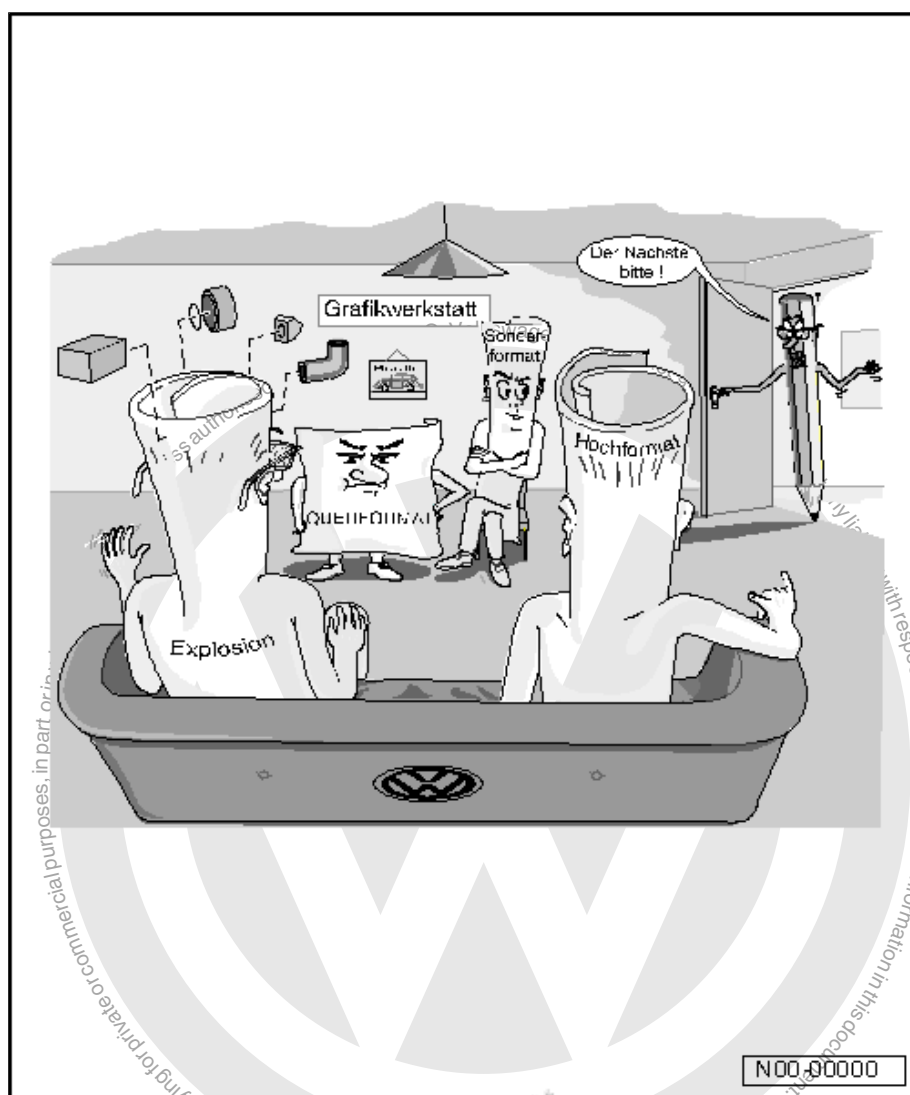
- ☐ 2 Nm.

7 - Expanding Rivet

8 - Lock Washer

9 - Rear Tunnel Bridge

- ☐ Removing and installing. Refer to
⇒ [“5.6 Rear Tunnel Bridge, Removing and Installing”, page 369](#) .





10 - Nut

- ☐ 20 Nm
- ☐ Quantity: 2 on each side

11 - Center Underbody Panel

- ☐ Removing and installing. Refer to
⇒ ["5.3 Center Underbody Panels, Removing and Installing", page 364](#) .

12 - Expanding Rivet

- ☐ Quantity: 4

13 - Front Tunnel Bridge

- ☐ Removing and installing. Refer to ⇒ ["5.5 Front Tunnel Bridge, Removing and Installing", page 368](#) .

14 - Bolt

- ☐ 20 Nm
- ☐ Quantity: 2 on each side

5.1.2 Overview - Underbody Panel, e-Golf

1 - Noise Insulation

- ☐ Removing and installing

2 - Front Underbody Panel

- ☐ Removing and installing. Refer to
⇒ ["5.2 Underbody Panels, Removing and Installing", page 361](#) .

3 - Center Underbody Panel

- ☐ Left and right
- ☐ Removing and installing. Refer to
⇒ ["5.2 Underbody Panels, Removing and Installing", page 361](#) .

4 - Rear Underbody Trim

- ☐ Removing and installing. Refer to
⇒ ["5.4 Rear Underbody Panel, Removing and Installing", page 366](#) .

5 - Bolt

- ☐ 2 Nm.

For the rear underbody panel

- ☐ Quantity: 6

6 - Hex Nut

- ☐ 2.0 Nm

For the rear underbody panel

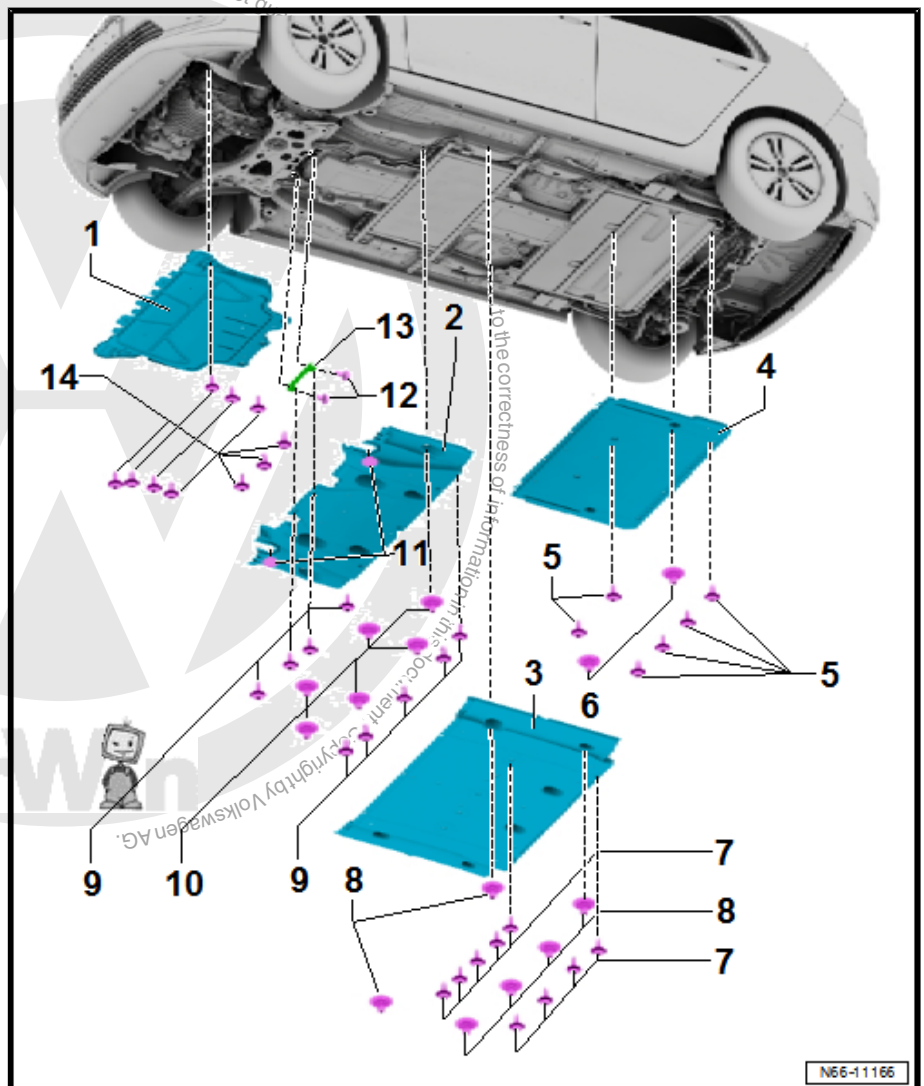
- ☐ Quantity: 2

7 - Bolt

- ☐ 2 Nm.

For the center underbody panel

- ☐ Quantity: 9





8 - Hex Nut

- ☐ 2.0 Nm

For the center underbody panel

- ☐ Quantity: 6

9 - Bolt

- ☐ 2 Nm.

For the front underbody panel

- ☐ Quantity: 9

10 - Hex Nut

- ☐ 2.0 Nm

For the front underbody panel

- ☐ Quantity: 6

11 - Caps

- ☐ Quantity: 2

12 - Bolt

- ☐ 6 Nm.

for the bracket

- ☐ Quantity: 2

13 - Bracket

14 - Bolt

- ☐ 2 Nm.

For the noise insulation

- ☐ Quantity: 10





5.1.3 Overview - Hybrid Underbody Panels

1 - Front Cover

- ☐ Left and right

2 - Underbody Trim Panels

- ☐ Left and right
- ☐ Removing and installing. Refer to
⇒ ["5.2 Underbody Panels, Removing and Installing", page 361](#).

3 - Rear Underbody Trim

4 - Bolt

- ☐ 8 Nm.
- ☐ For the rear underbody panel
- ☐ Quantity: 4 on each side

5 - Nut

- ☐ 20 Nm
- ☐ For the rear underbody panel
- ☐ Quantity: 2 on each side

6 - Expanding Rivet

7 - Nut

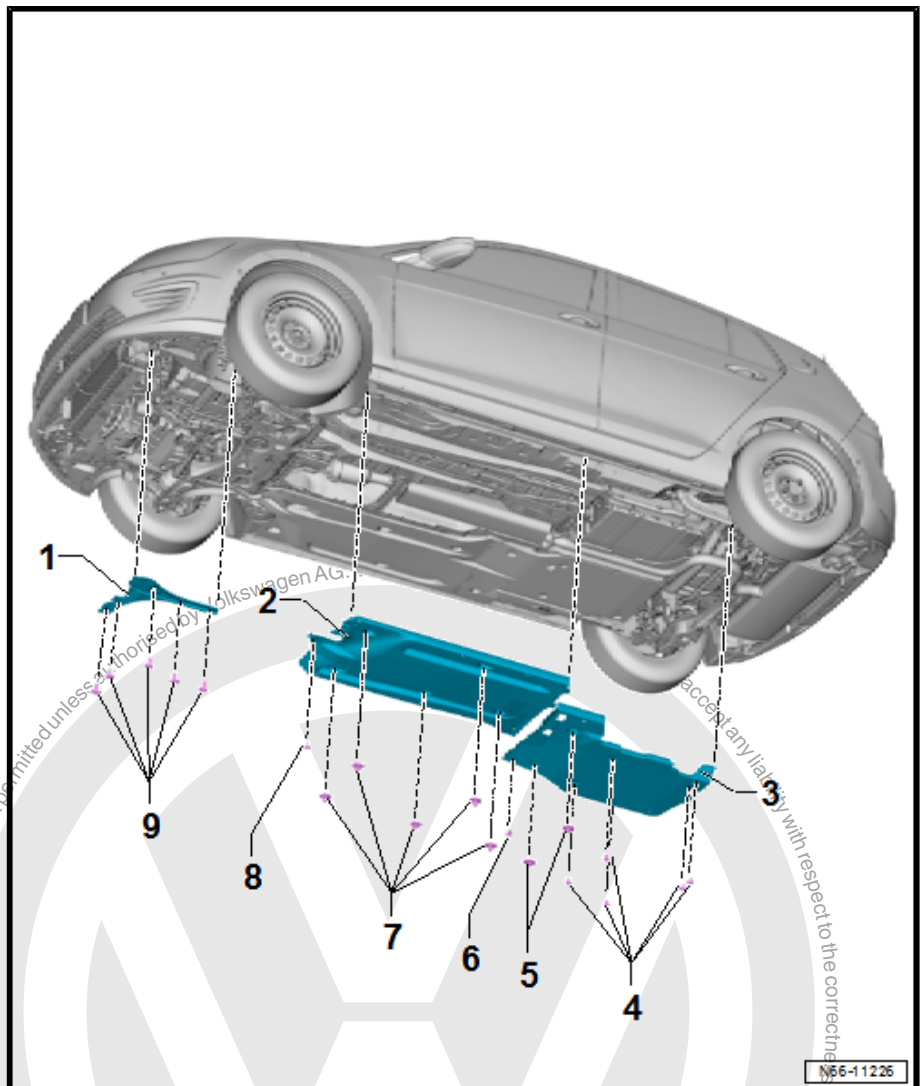
- ☐ 2.0 Nm
- ☐ for the underbody panel
- ☐ With retainer
- ☐ 5 on each side

8 - Bolt

- ☐ 2 Nm.
- ☐ for the underbody panel
- ☐ Quantity: 1 on each side

9 - Bolt

- ☐ 2 Nm.
- ☐ for the front cover
- ☐ Quantity: 5 on the left side
- ☐ Quantity: 6 on the right side



5.2 Underbody Panels, Removing and Installing

⇒ ["5.2.1 Underbody Panels, Removing and Installing, Gasoline/Diesel", page 362](#)

⇒ ["5.2.2 Front Underbody Panel, Removing and Installing, e-Golf", page 363](#)

Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-

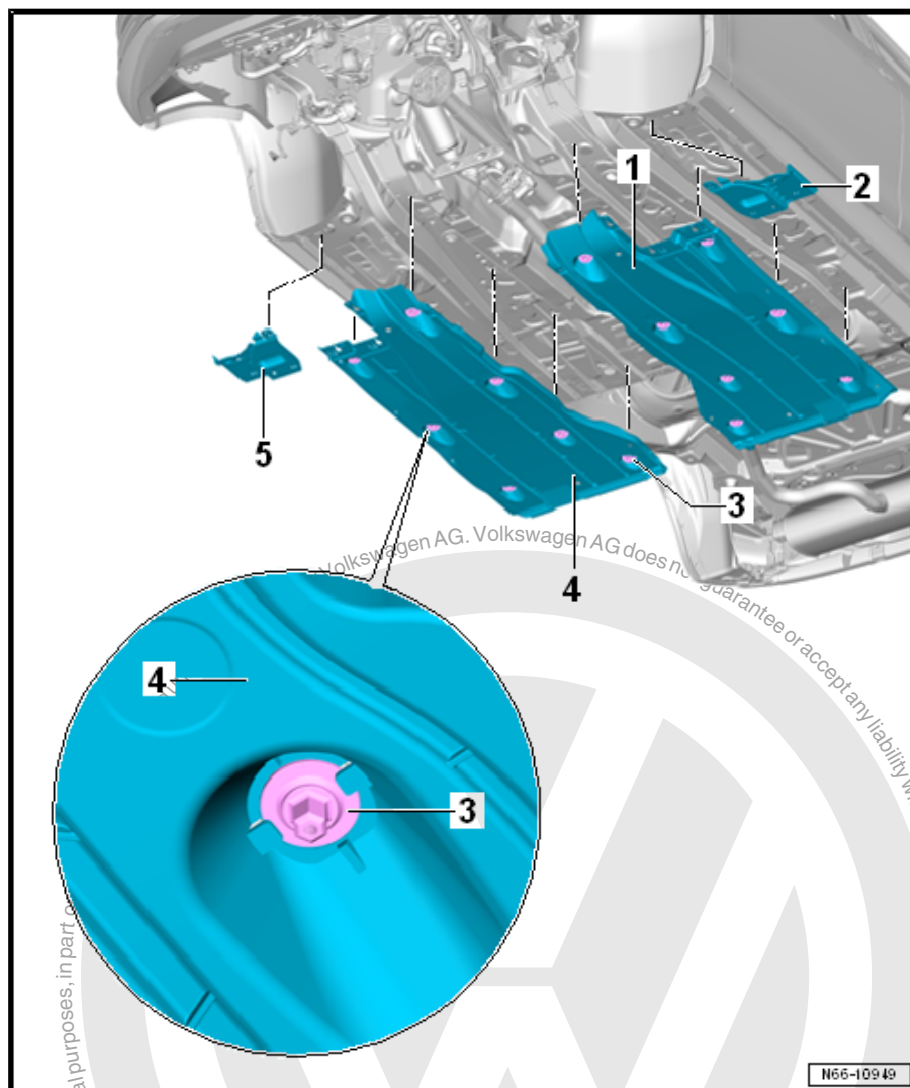


5.2.1 Underbody Panels, Removing and Installing, Gasoline/Diesel



Note

Slight changes may have to be made to removal and installation procedures, depending upon engine installed in vehicle.



Removing

- Remove the center underbody panels. Refer to ["5.3 Center Underbody Panels, Removing and Installing", page 364](#).
- Release the mounting tab and remove front cover -2- or -5- in the direction of travel rearward from the catch.
- Remove the nuts -3-.
- Remove the underbody panel -1- or -4-.

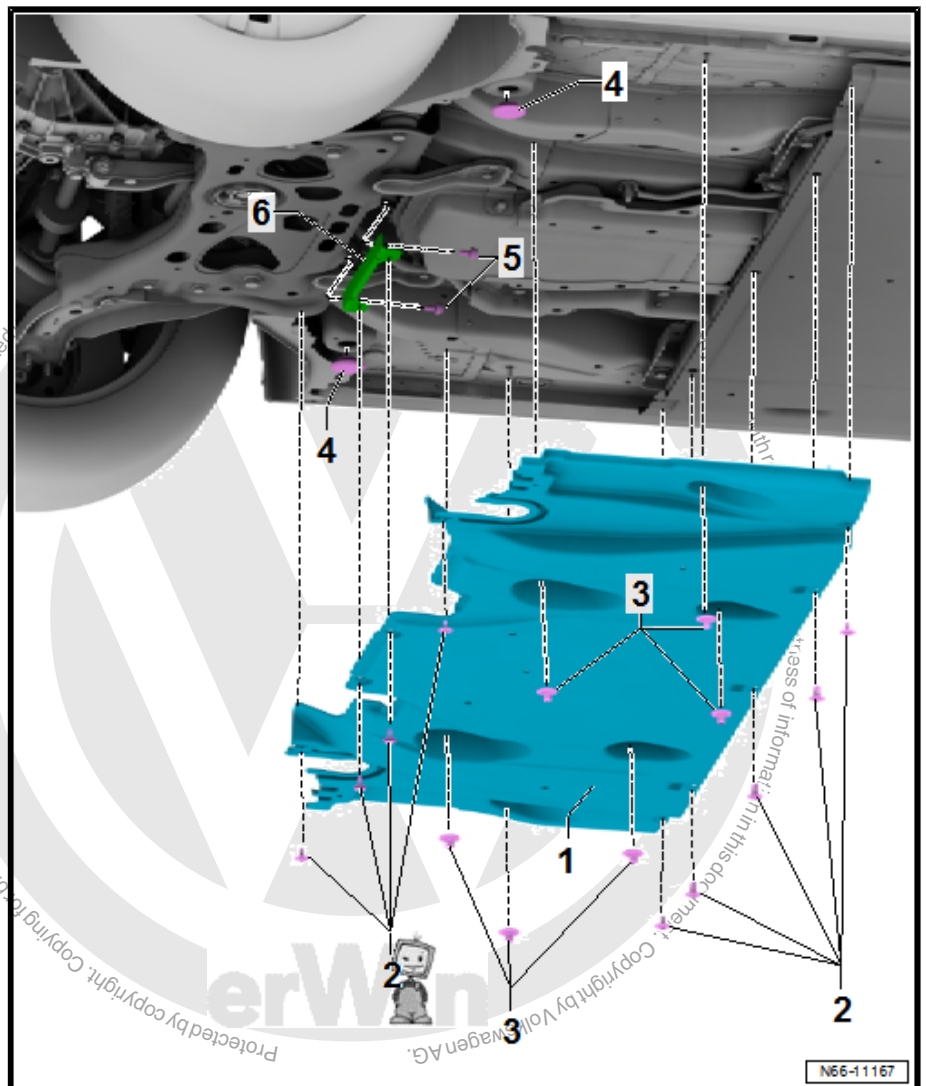
Installing

Install in reverse order of removal. Note the following:



Tightening specification

5.2.2 Front Underbody Panel, Removing and Installing, e-Golf



Removing

- Remove the bolts -2-.
- Remove the nuts -3-.
- Remove the underbody panel -1-.

Installing

Install in reverse order of removal. Note the following:



Tightening specification

5.3 Center Underbody Panels, Removing and Installing

⇒ ["5.3.1 Center Underbody Panel, Removing and Installing, Long", page 364](#)

⇒ ["5.3.2 Center Underbody Panel, Removing and Installing, Short", page 365](#)

⇒ ["5.3.3 Center Underbody Panel, Removing and Installing, e-Golf", page 366](#)

Special tools and workshop equipment required

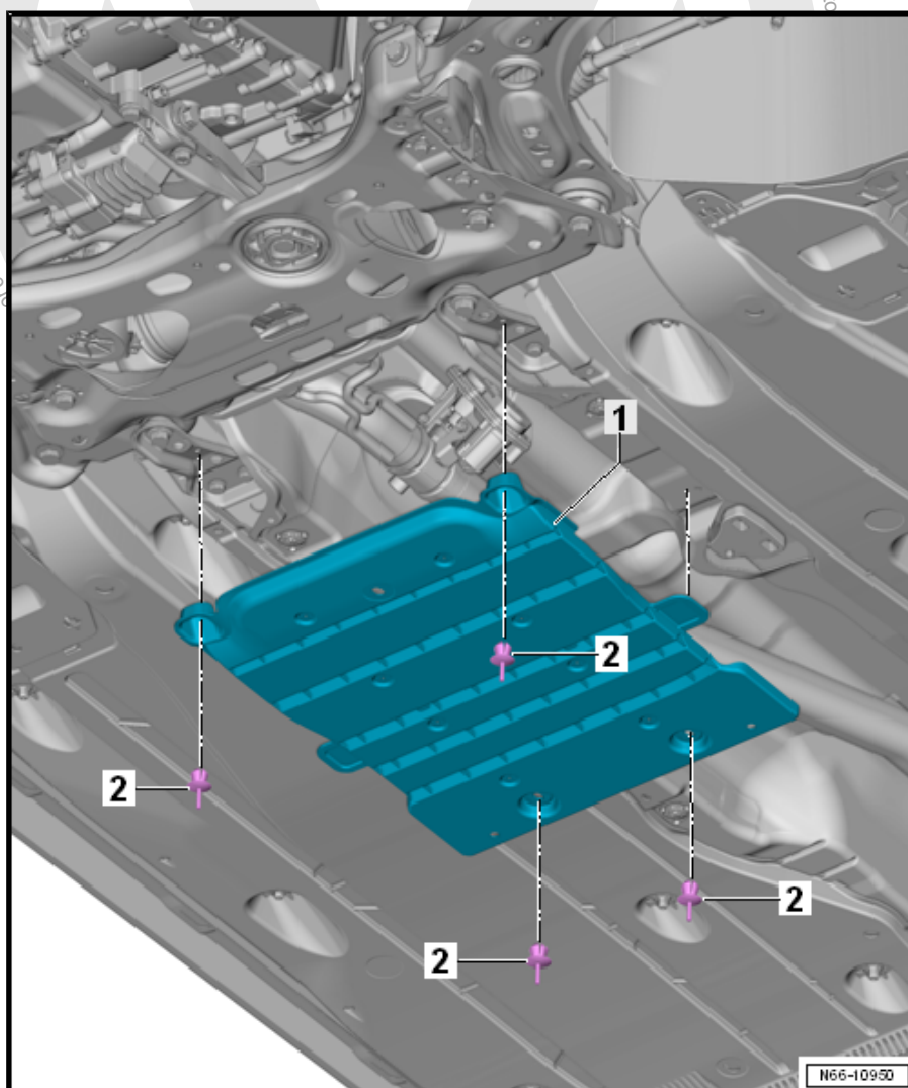
- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783

5.3.1 Center Underbody Panel, Removing and Installing, Long



Note

Slight changes may have to be made to removal and installation procedures, depending upon engine installed in vehicle.





Removing

Unclip the expanding rivet -2- and remove the center underbody panels.

Installing

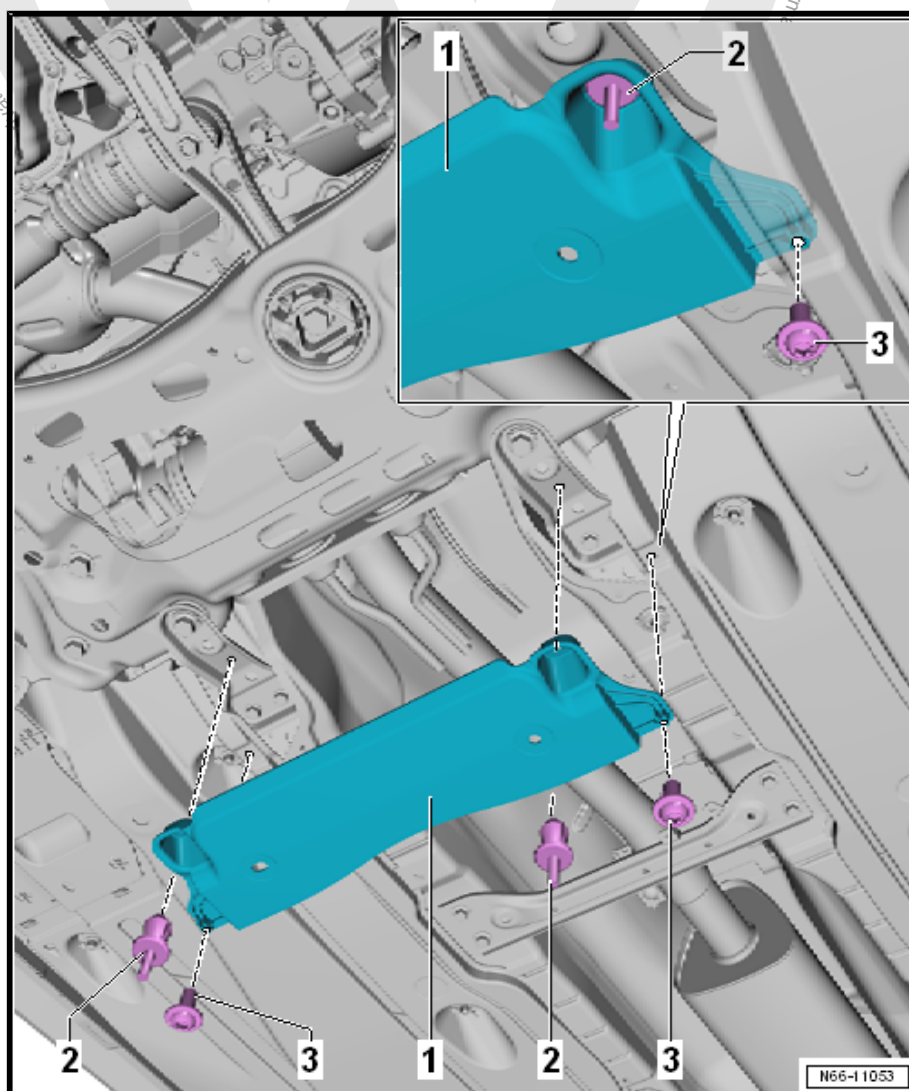
Install in reverse order of removal.

5.3.2 Center Underbody Panel, Removing and Installing, Short



Note

Slight changes may have to be made to removal and installation procedures, depending upon engine installed in vehicle.



Removing

Unclip the expanding rivet -2- and remove the center underbody panels.

- Remove the bolt -3-.

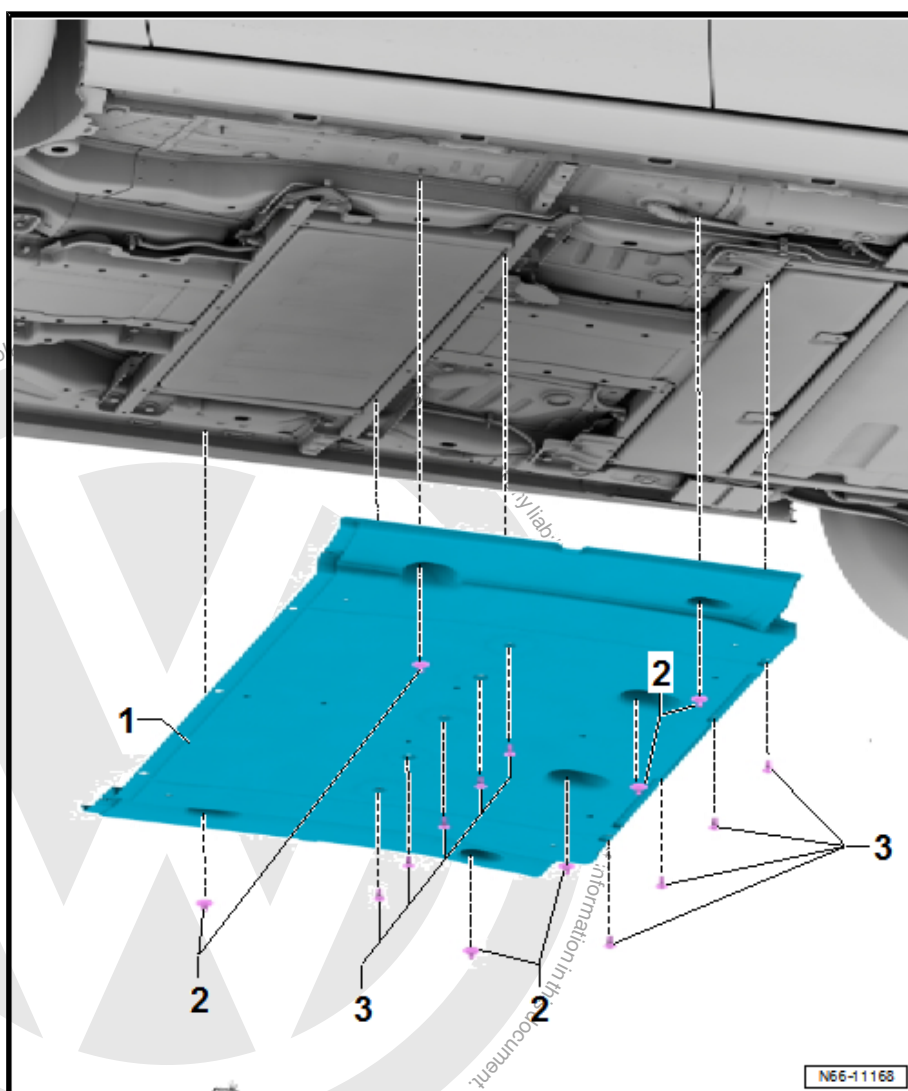
Installing

Install in reverse order of removal.



Tightening Specifications

5.3.3 Center Underbody Panel, Removing and Installing, e-Golf



Removing

- Remove the bolts -2-.
- Remove the nuts -3-.
- Remove the underbody panel -1-.

Installing

Install in reverse order of removal. Note the following:

Tightening specification

5.4 Rear Underbody Panel, Removing and Installing

⇒ [“5.4.1 Rear Underbody Panel, Removing and Installing, Gasoline/Diesel”, page 367](#)

⇒ [“5.4.2 Rear Underbody Panel, Removing and Installing, e-Golf”, page 368](#)

Special tools and workshop equipment required



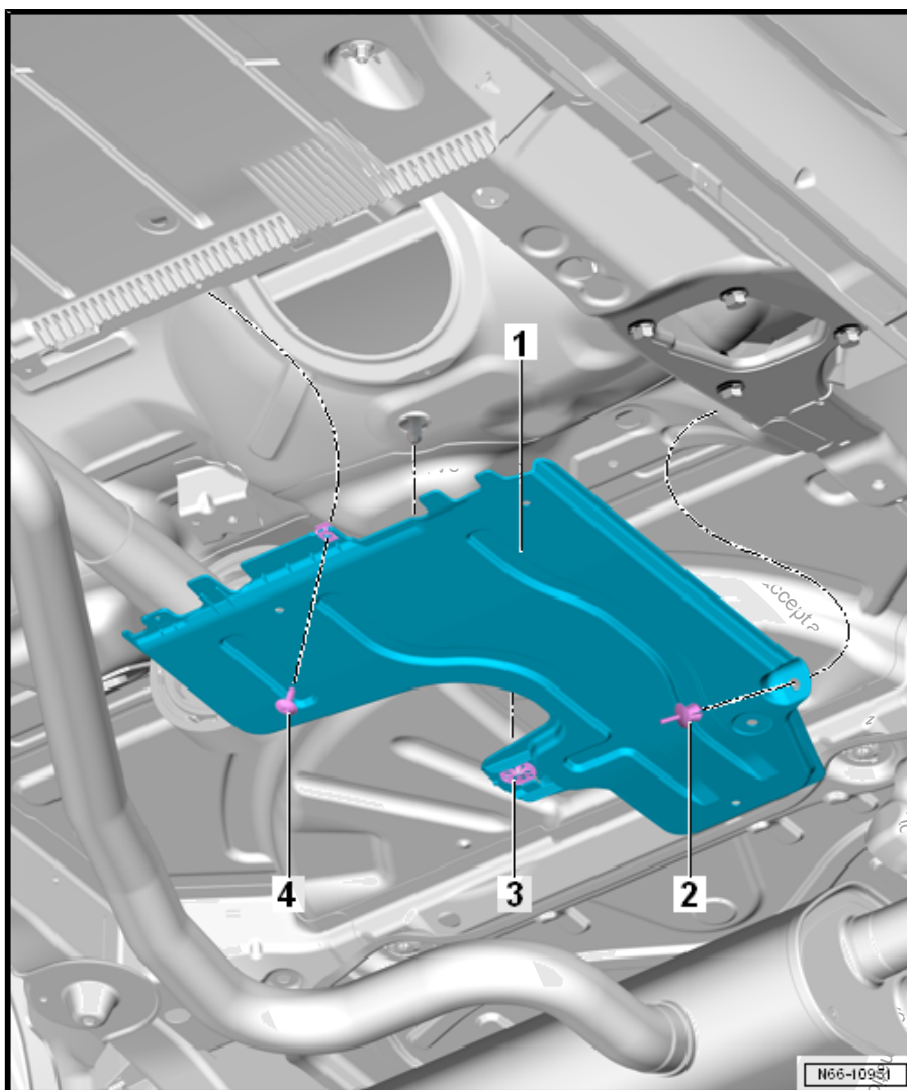
◆ Torque Wrench 1783 - 2-10Nm - VAG1783-

5.4.1 Rear Underbody Panel, Removing and Installing, Gasoline/Diesel



Note

Slight changes may have to be made to removal and installation procedures, depending upon engine installed in vehicle.



- Loosen the lock washer -3-.
- Unclip the expanding rivet -2- and remove the bolts -4-.
- Remove the rear underbody panel -1-.

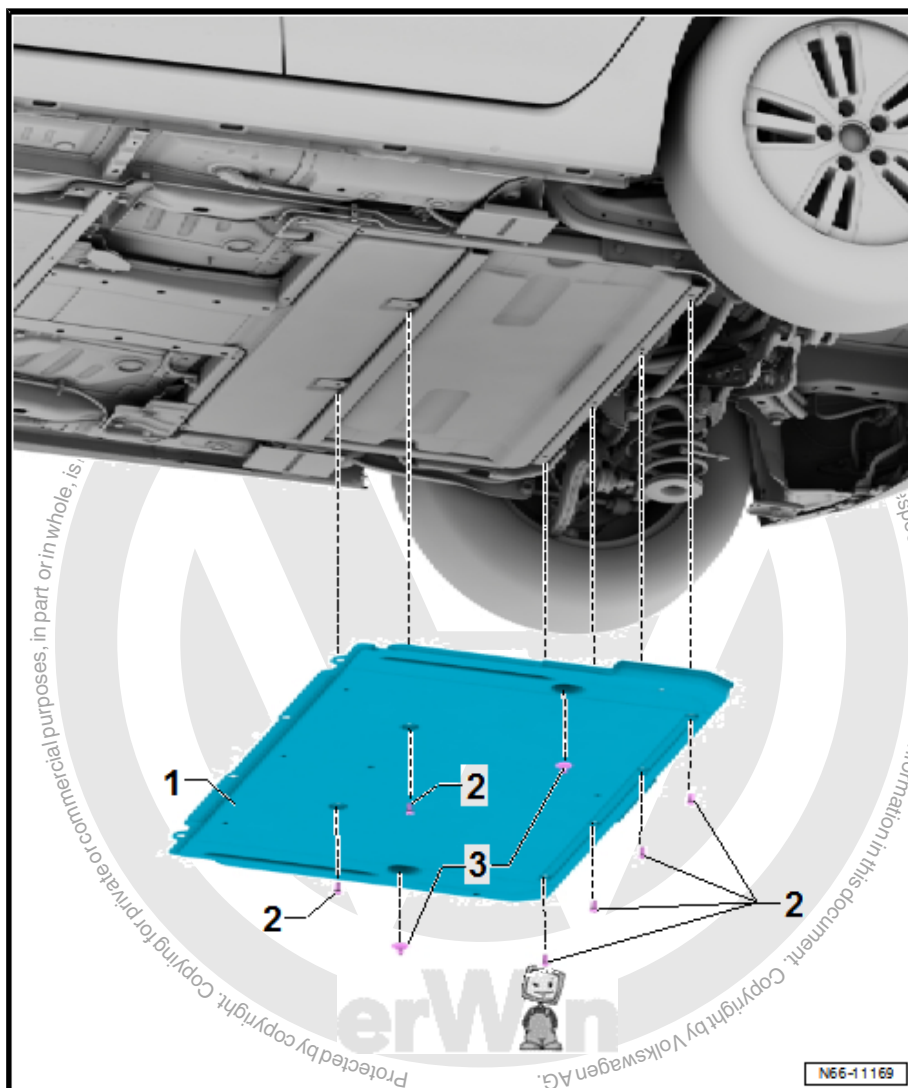
Installing

Install in reverse order of removal. Note the following:



Tightening Specifications

5.4.2 Rear Underbody Panel, Removing and Installing, e-Golf



Removing

- Remove the bolts -2-.
- Remove the nuts -3-.
- Remove the underbody panel -1-.

Installing

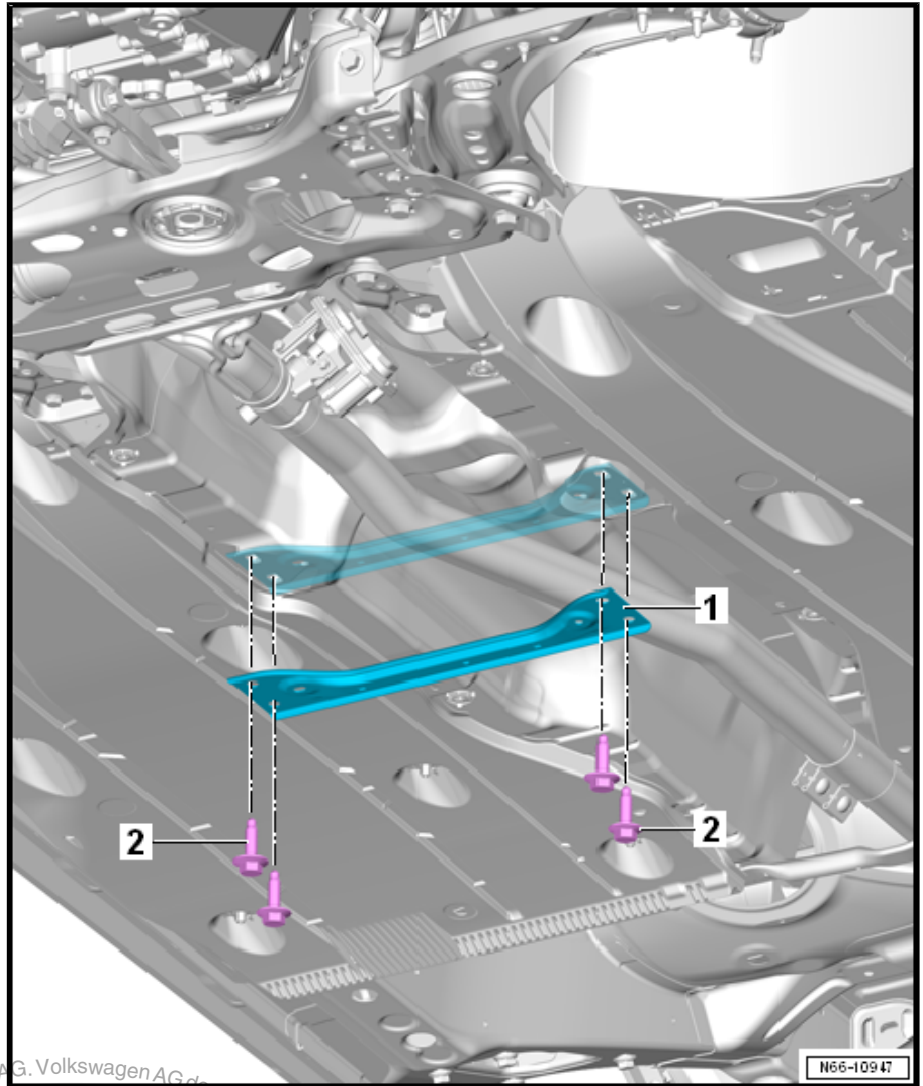
Install in reverse order of removal. Note the following:

Tightening specification

5.5 Front Tunnel Bridge, Removing and Installing

Special tools and workshop equipment required

- ♦ Torque Wrench 1331 5-50Nm - VAG1331-



Removing

- If equipped remove the center underbody panel. Refer to ["5.3 Center Underbody Panels, Removing and Installing", page 364](#).
- Remove the bolts -2-.
- Remove the front tunnel bridge -1-.

Installing

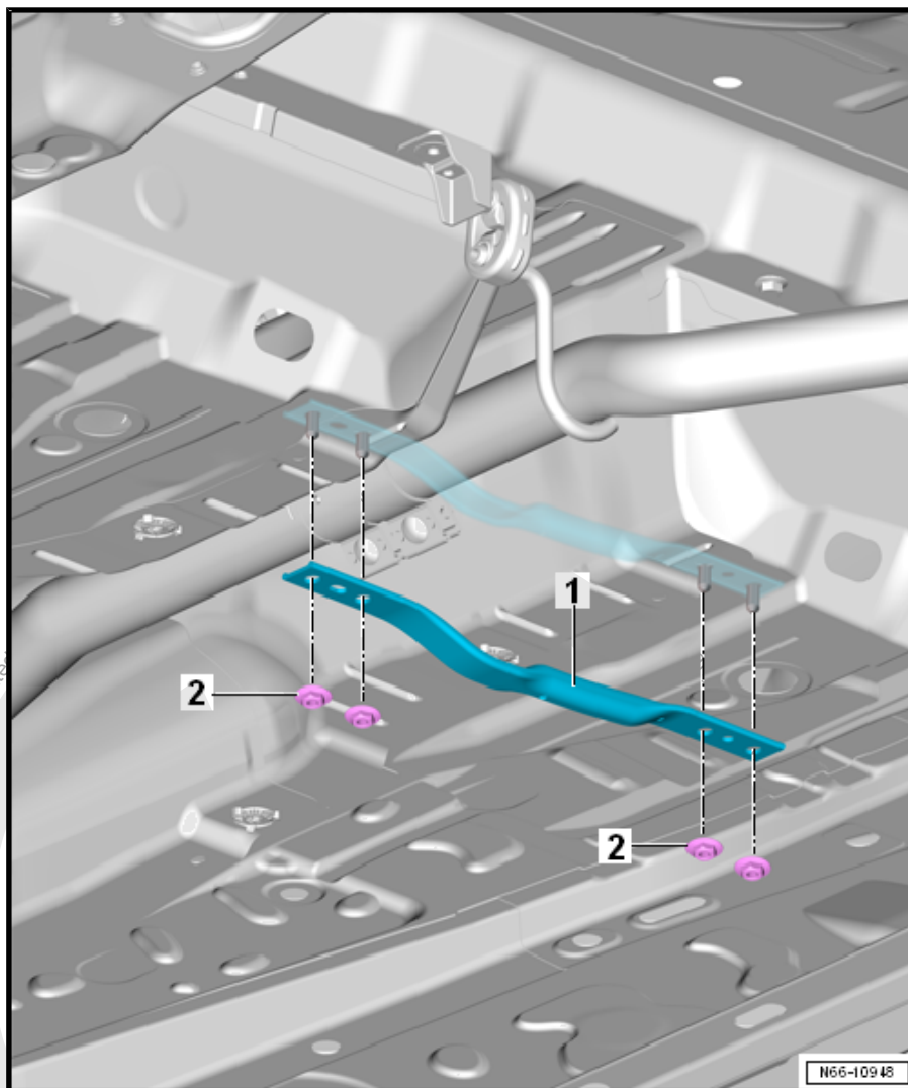
Install in reverse order of removal. Note the following:

Tightening Specifications

5.6 Rear Tunnel Bridge, Removing and Installing

Special tools and workshop equipment required

- ◆ Torque Wrench 1331 5-50Nm - VAG1331-



Removing

- Loosen the rear underbody panel and push slightly downward.
Refer to
⇒ [“5.2 Underbody Panels, Removing and Installing”,
page 361](#) .
- Remove the nuts -2-.
- Remove the rear tunnel bridge -2-.

Installing

Install in reverse order of removal. Note the following:

Tightening Specifications



6 Exterior Rearview Mirror

⇒ [“6.1 Overview - Exterior Rearview Mirror”, page 371](#)

⇒ [“6.2 Exterior Rearview Mirror, Removing and Installing”, page 372](#)

⇒ [“6.3 Mirror Glass, Removing and Installing”, page 374](#)

⇒ [“6.4 Mirror Adjusting Unit, Removing and Installing”, page 375](#)

⇒ [“6.5 Mirror Cap, Removing and Installing”, page 377](#)

⇒ [“6.6 Mirror Trim, Removing and Installing”, page 378](#)

6.1 Overview - Exterior Rearview Mirror



Note

The illustration shows the left side. The right side is identical.

1 - Mirror Base Plate

- ❑ Removing and installing. Refer to
⇒ [“6.2 Exterior Rearview Mirror, Removing and Installing”, page 372](#) .

2 - Bolt

- ❑ 9.0 Nm
- ❑ Quantity: 2

3 - Clip

4 - Cap

Removing and installing. Refer to
⇒ [“6.2 Exterior Rearview Mirror, Removing and Installing”, page 372](#) .

5 - Adjusting Unit

- ❑ Removing and installing. Refer to
⇒ [“6.4 Mirror Adjusting Unit, Removing and Installing”, page 375](#) .

6 - Bolt

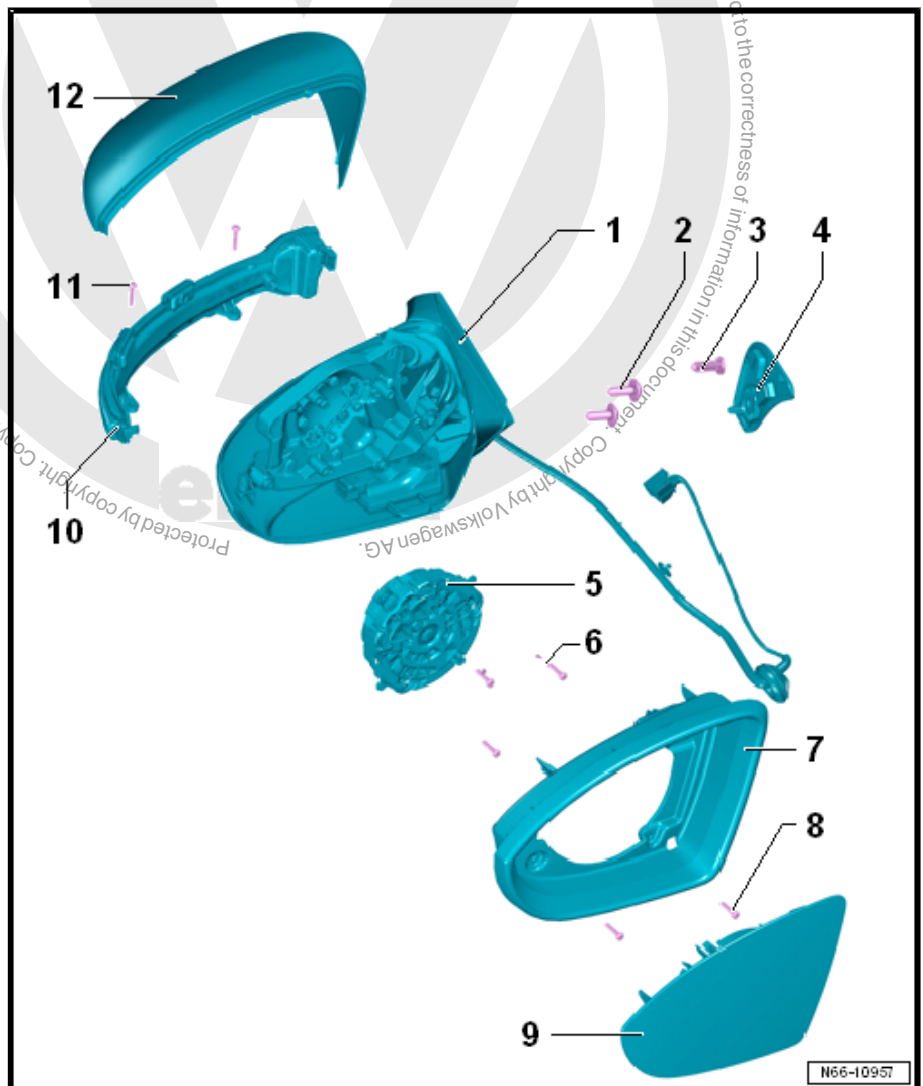
- ❑ 1.0 Nm
- ❑ Quantity: 3

7 - Mirror Frame

- ❑ Removing and installing. Refer to
⇒ [“6.6 Mirror Trim, Removing and Installing”, page 378](#) .

8 - Bolt

- ❑ 1.0 Nm
- ❑ Quantity: 2





9 - Mirror Glass

- ☐ Removing and installing. Refer to ⇒ [“6.3 Mirror Glass, Removing and Installing”, page 374](#) .

10 - Turn Signal

- ☐ Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; Exterior Rearview Mirror Lamps; Turn Signal, Removing and Installing .

11 - Bolt

- ☐ 1.0 Nm
- ☐ Quantity: 2

12 - Mirror Cap

- ☐ Material: ABS
- ☐ Removing and installing. Refer to ⇒ [“6.5 Mirror Cap, Removing and Installing”, page 377](#) .

6.2 Exterior Rearview Mirror, Removing and Installing

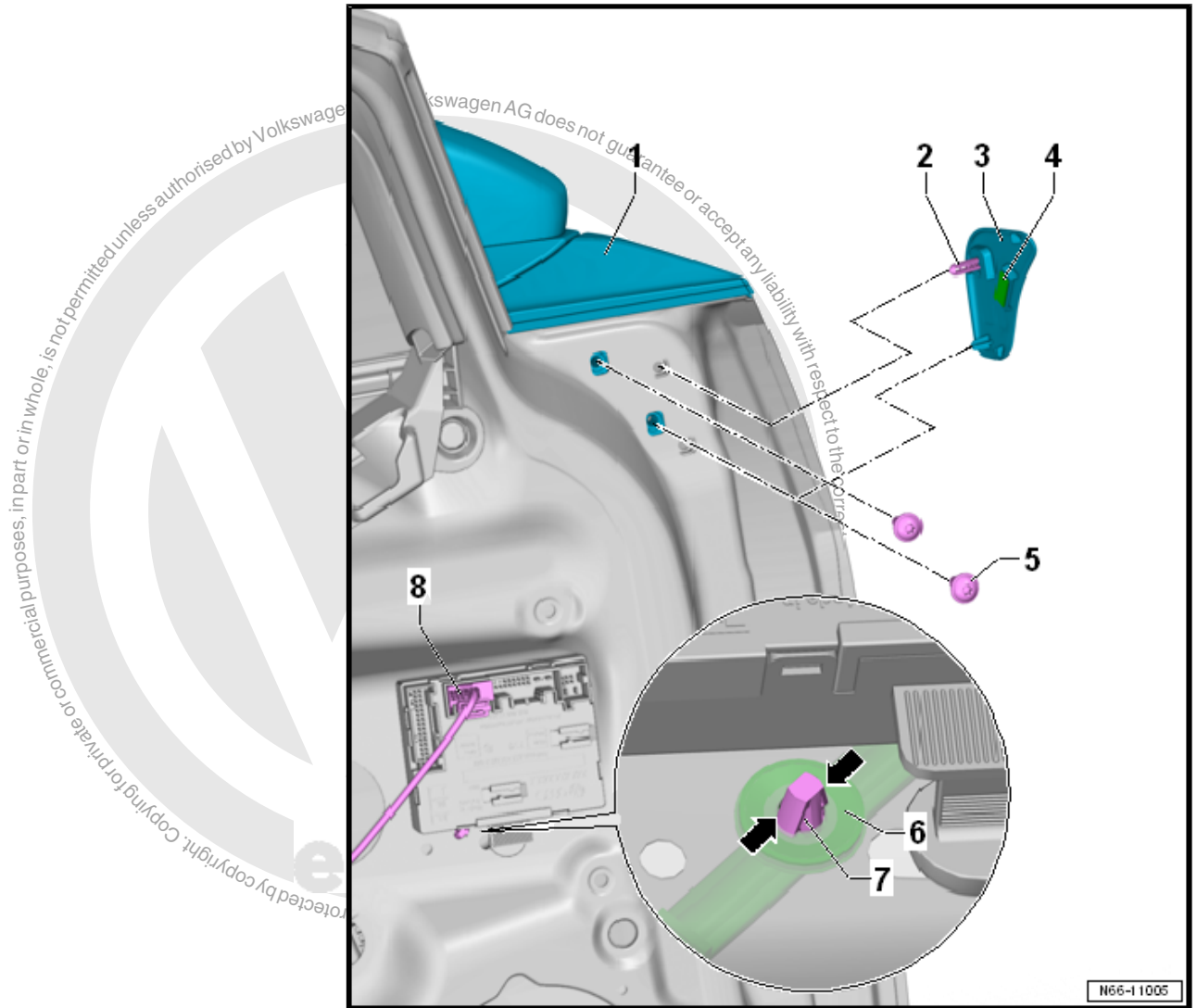
Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

The following describes removing and installing the left exterior rearview mirror. The right side is identical.



Removing

- Remove the front door trim panel. Refer to ➤ Body Interior; Rep. Gr. 70 ; Front Door Trim Panels; Front Door Trim Panel, Removing and Installing .
- Unclip the cover -3- and while doing this loosen the adhesive tape -4-.
- Remove the speaker. Refer to ➤ Communication; Rep. Gr. 91 ; Sound System; Component Location Overview - Sound Systems .
- Reach between the speaker opening and disconnect the connector -8- for the exterior rearview mirror -1-.
- Remove the bolts -5- for the exterior rearview mirror -1-.
- Remove the door control module and loosen the clip -7- installed behind -arrows-.
- Guide the wire -6- through the opening in the door and remove the exterior mirror -1-.

Installing

Install in reverse order of removal. Note the following:

- If the adhesive tape or clip is damaged replace the cover.



– Then, perform a function test.

Tightening Specifications

6.3 Mirror Glass, Removing and Installing

Special tools and workshop equipment required

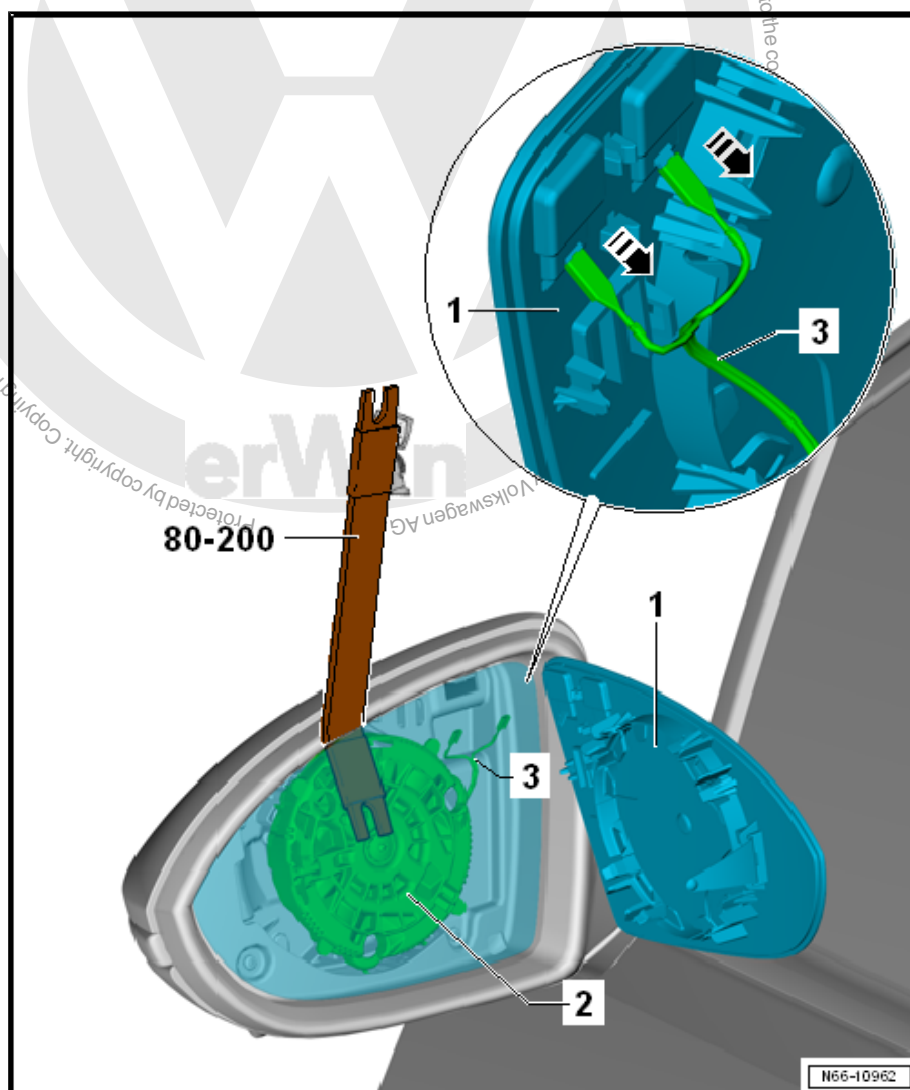
- ◆ Pry Lever - 80-200-



Note

*Removing and installing is performed only for the left mirror glass.
The right side is identical.*

Removing



WARNING

Wear protective eyewear and gloves when working.



- Protect the edges of the housing from paint damage, for example by using fabric-reinforced adhesive tape.
- Press the mirror glass -1- into the mirror housing bottom.
- Press the mirror glass -1- from the mirror adjusting unit using the Pry Lever - 80-200- -2-.
- Move the mirror glass -1- to the side and disconnect the connector -3- for the mirror heating from the back of the mirror -1-.

Installing

- Connect the connectors -3- to the mirror glass -1-.
- Press the center of the mirror glass -1- onto the adjusting unit -2- in the housing.

The mirror glass will engage with a click.



Note

Only press the center of the mirror glass when pressing it on.

- Then, perform a function test.

6.4 Mirror Adjusting Unit, Removing and Installing

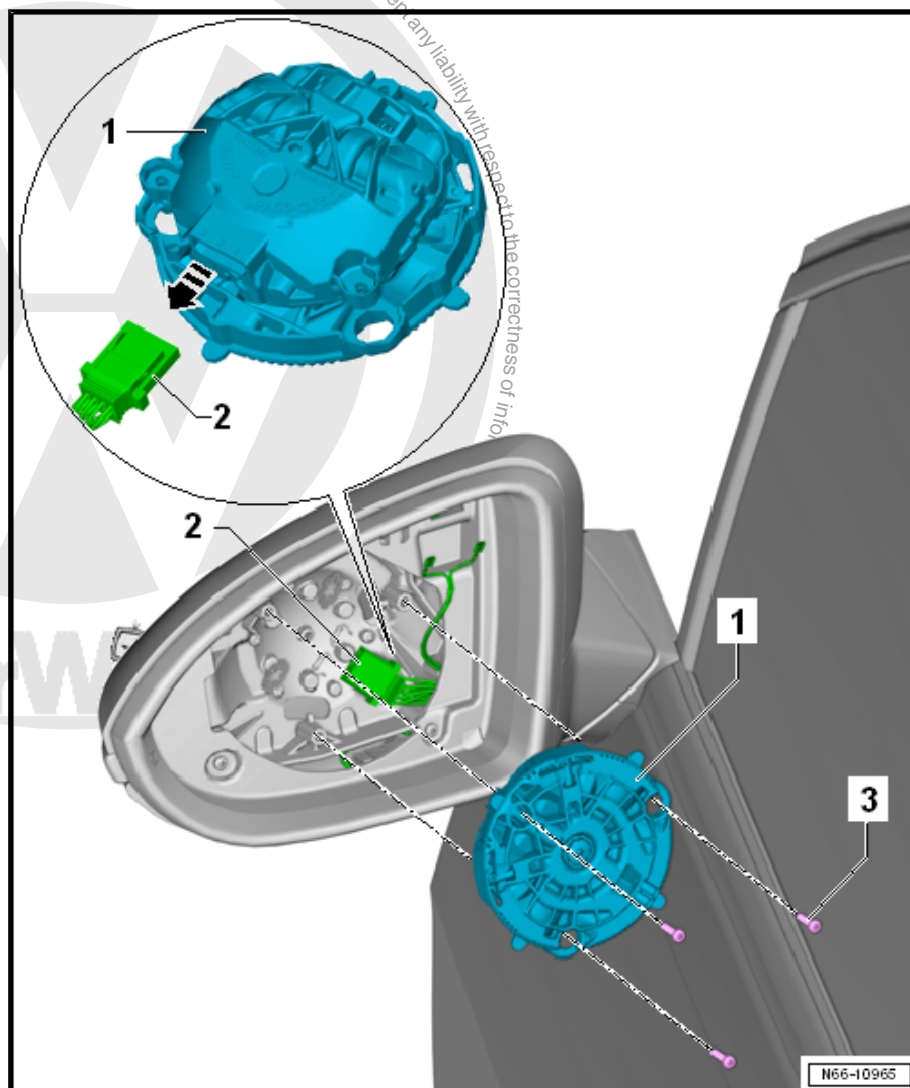
Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

Removing and installing is described only for the left adjusting unit with motor. The right side is identical.



Removing

- Remove the mirror glass. Refer to [⇒ "6.3 Mirror Glass, Removing and Installing", page 374](#) .
- Remove the bolts -3- (quantity: 3) and remove the adjuster unit -1- from the mirror base.
- Move the adjuster unit -1- to the side and disconnect the connector -2-.

Installing

- Attach the connector -2- to the adjusting unit -1-.
- Mount the adjuster unit -1- on the mirror base and tighten the screws -3- (quantity: 3).
- Install the mirror glass. Refer to [⇒ "6.3 Mirror Glass, Removing and Installing", page 374](#) .

Tightening Specifications

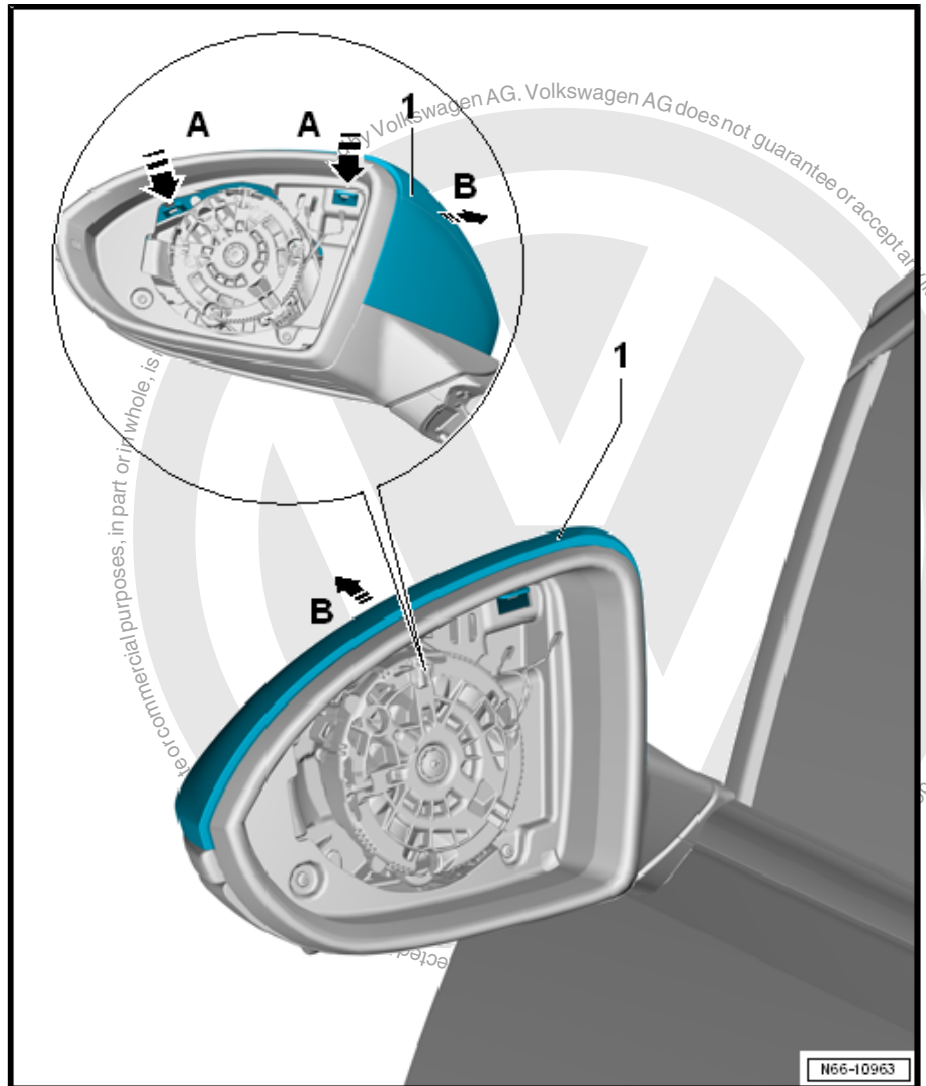
- ◆ Bolts. Refer to -item 6- [⇒ Item 6 \(page 371\)](#) .



6.5 Mirror Cap, Removing and Installing



The following describes removing and installing the left mirror cap. The right side is identical.



Removing

- Remove the mirror glass. Refer to ["6.3 Mirror Glass, Removing and Installing", page 374](#).
- Release the retaining hooks -A arrows-.
- Remove the mirror cap -1- from the mirror base rearward in the direction of the -arrow B-.

Installing

- Position the mirror cap -1- and push in until the hooks engage audibly.
- Install the mirror glass. Refer to ["6.3 Mirror Glass, Removing and Installing", page 374](#).



6.6 Mirror Trim, Removing and Installing

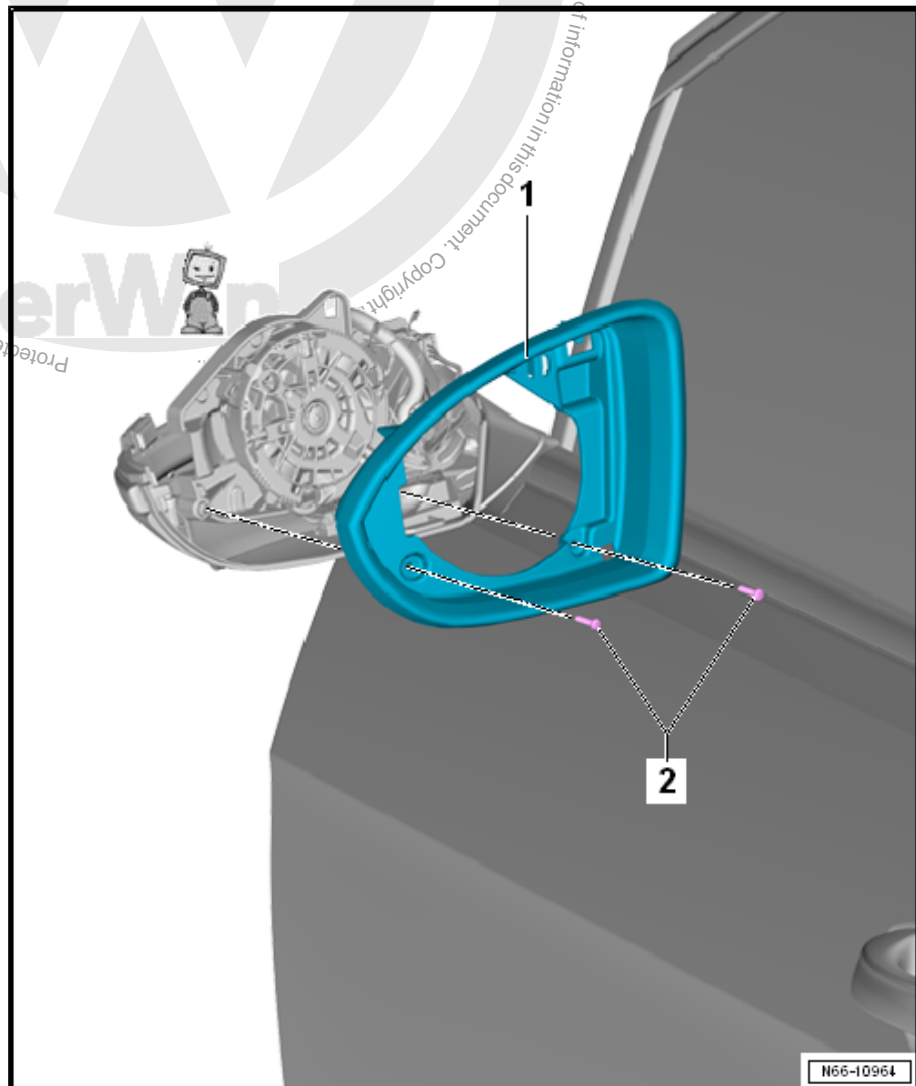
Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

Removal and installation are described only for the left mirror trim. The right side is identical.



Removing

- Remove the mirror glass. Refer to
⇒ [“6.3 Mirror Glass, Removing and Installing”, page 374](#) .
- Remove the mirror cap. Refer to
⇒ [“6.5 Mirror Cap, Removing and Installing”, page 377](#) .
- Remove the bolts -2-.
- Remove the mirror frame -1- from the catches.

Installing

Install in reverse order of removal. Note the following:



- Then, perform a function test.

Tightening Specifications





7 Wheel Housing Liner

⇒ [“7.1 Overview - Front Wheel Housing Liner”, page 380](#)

⇒ [“7.2 Overview - Rear Wheel Housing Liner”, page 381](#)

⇒ [“7.3 Front Wheel Housing Liner, Removing and Installing”, page 382](#)

⇒ [“7.4 Rear Wheel Housing Liner, Removing and Installing”, page 384](#)

7.1 Overview - Front Wheel Housing Liner



Note

- ◆ The wheel housing liner may differ slightly depending on the model.
- ◆ The illustration shows the left side. The procedure for the right side is identical.

1 - Front Wheel Housing Liner

- ❑ PP/EPDM material
- ❑ Removing and installing. Refer to
⇒ [“7.3 Front Wheel Housing Liner, Removing and Installing”, page 382](#).

2 - Bolt

- ❑ 2.0 Nm
- ❑ 7 on each side

3 - Wheel Housing Liner Front Section

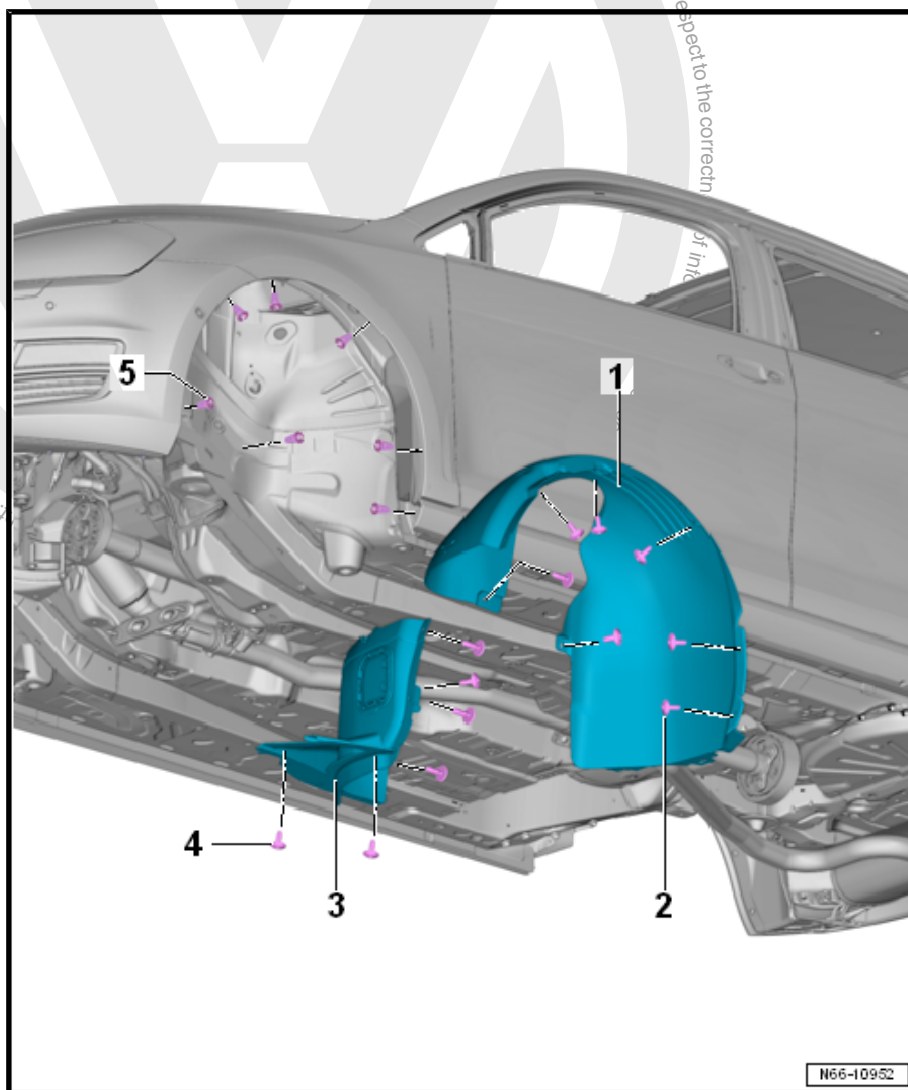
- ❑ PP/EPDM material
- ❑ With cover and there are different versions. For the correct allocation. Refer to the Parts Catalog.
- ❑ Removing and installing. Refer to
⇒ [“7.3.1 Front Wheel Housing Liner Front Section, Removing and Installing”, page 382](#).

4 - Bolt

- ❑ 2.0 Nm
- ❑ 6 on each side

5 - Expanding Nut

- ❑ 7 on each side





7.2 Overview - Rear Wheel Housing Liner



Note

- ◆ The wheel housing liner may differ slightly depending on the model.
- ◆ The illustration shows the left side. The right side is identical.

1 - Rear Wheel Housing Liner

- ☐ PP/EPDM material
- ☐ Removing and installing. Refer to
⇒ ["7.4 Rear Wheel Housing Liner, Removing and Installing", page 384](#).

2 - Bolt

- ☐ 2.0 Nm
- ☐ 10 on each side

3 - Expanding nuts

- ☐ Quantity: 2 on each side

4 - Expanding Nut

- ☐ Quantity: 3 on each side
- ☐ Gas-tight



DANGER!

Check the gas-tight expanding nuts for damage and replace them if necessary.

The expanding nuts seal off the passenger compartment from exhaust gas and must always be replaced if they are damaged.

5 - Adapter

- ☐ Only right side, not for gasoline
- ☐ Install the rear wheel housing -1- liner before installation

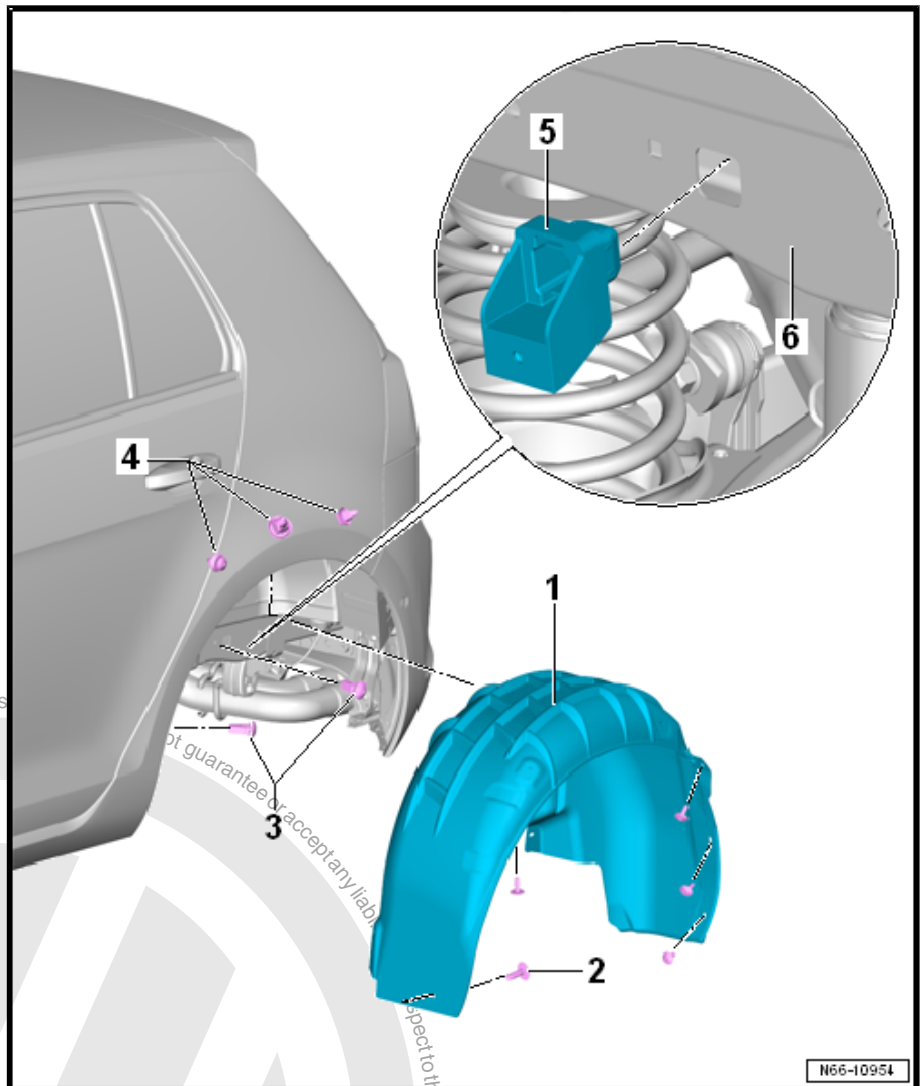
6 - Rear Longitudinal Member

Overview - Sill Panel Cover



Note

The illustration shows the left side. The right side is identical.





1 - Sill Panel Cover

- ☐ Removing:
- ☐ Loosen the rear wheel housing liner. Refer to ➔ ["7.3 Front Wheel Housing Liner, Removing and Installing", page 382](#).
- ☐ Remove the bolts -2- and remove the sill panel cover downward.
- ☐ Installing:



Note

Check the expanding nut for damage and replace if necessary.

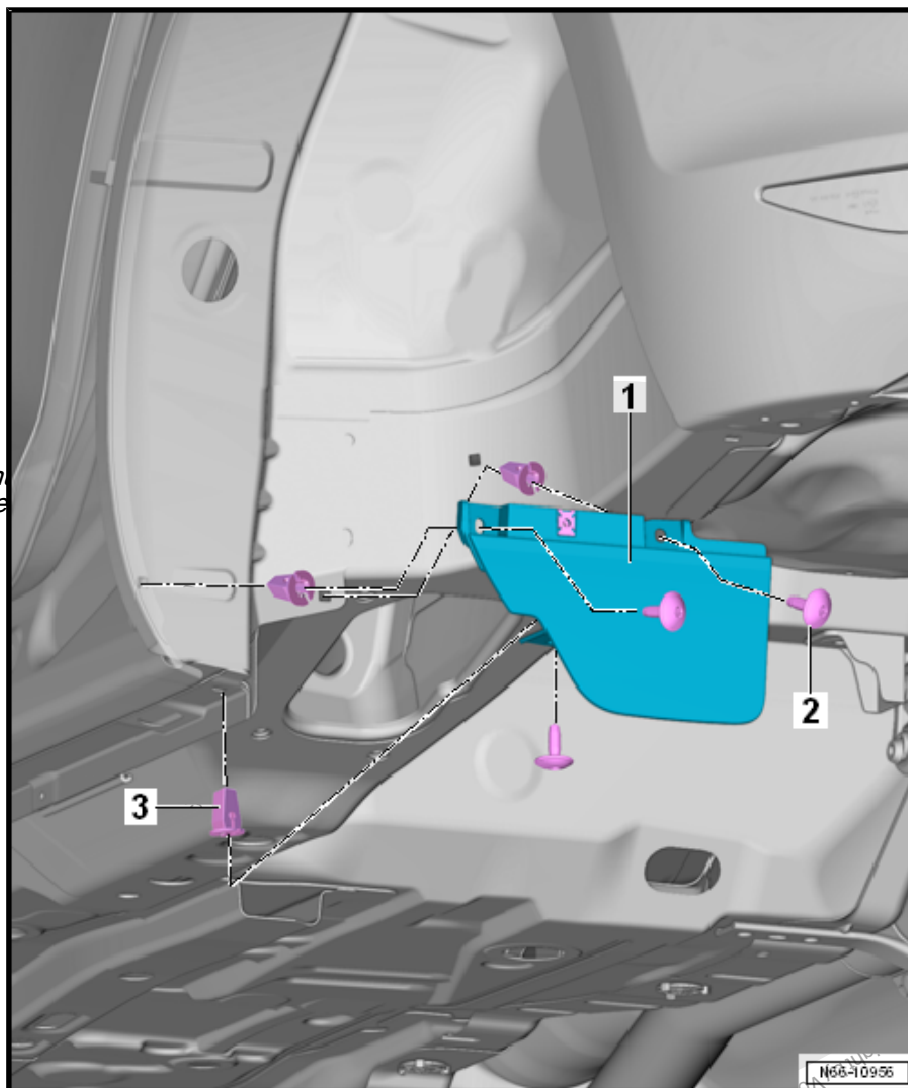
- ☐ Position the sill panel cover and fasten.

2 - Bolt

- ☐ 2.0 Nm.
- ☐ Quantity: 3

3 - Expanding Nut

- ☐ Quantity: 3



7.3 Front Wheel Housing Liner, Removing and Installing

➔ ["7.3.1 Front Wheel Housing Liner Front Section, Removing and Installing", page 382](#)

➔ ["7.3.2 Entire Front Wheel Housing Liner, Removing and Installing", page 383](#)

7.3.1 Front Wheel Housing Liner Front Section, Removing and Installing

Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Removing



Note

- ◆ *The following describes the removal and installation of the left front wheel housing liner. The procedure for the right front wheel housing liner is identical.*
 - ◆ *Depending on the model version, slight deviations must be considered when removing and installing.*
 - ◆ *For a better view of the screws, the wheel is not shown in the illustration.*
- Remove the screws -2-.
 - Remove the wheel housing liner front section -1-.

Installing

Install in reverse order of removal. Note the following:

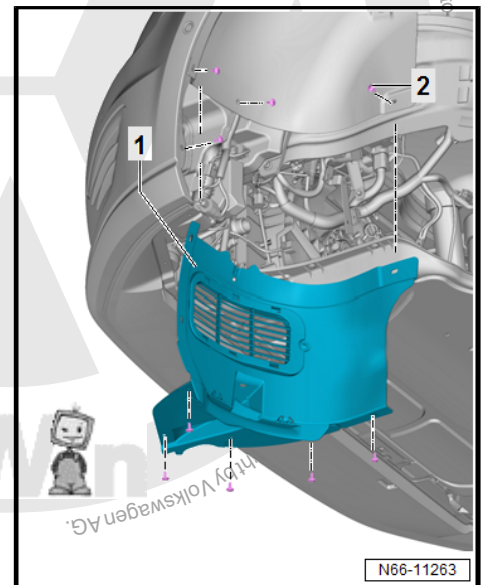


Note

Check the expanding nuts for damage and replace them if necessary.

Tightening Specifications

- ◆ Refer to
⇒ ["7.1 Overview - Front Wheel Housing Liner", page 380](#).



7.3.2 Entire Front Wheel Housing Liner, Removing and Installing

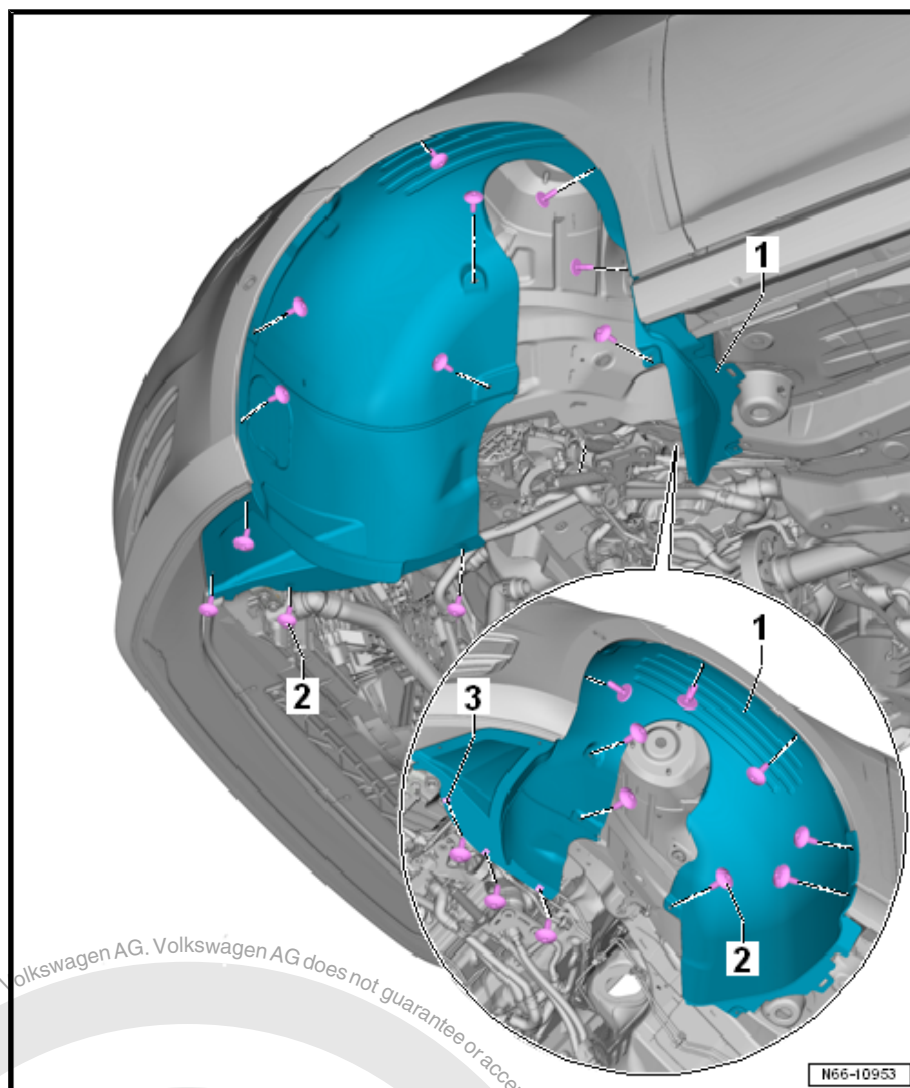
Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

- ◆ *The following describes the removal and installation of the left front wheel housing liner. The right side is identical.*
- ◆ *Depending on the model version, slight deviations must be considered when removing and installing.*
- ◆ *For a better view of the screws, the wheel is not shown in the illustration.*



Removing

- Remove the screws -2-.
- Remove the wheel housing liner -1- from the fender.

Installing



Note

Check the expanding nuts for damage and replace them if necessary.

- Push the front wheel housing liner -1- into the fender.
- Align the front wheel housing liner -1- with the front bumper cover.

Tightening Specifications

7.4 Rear Wheel Housing Liner, Removing and Installing

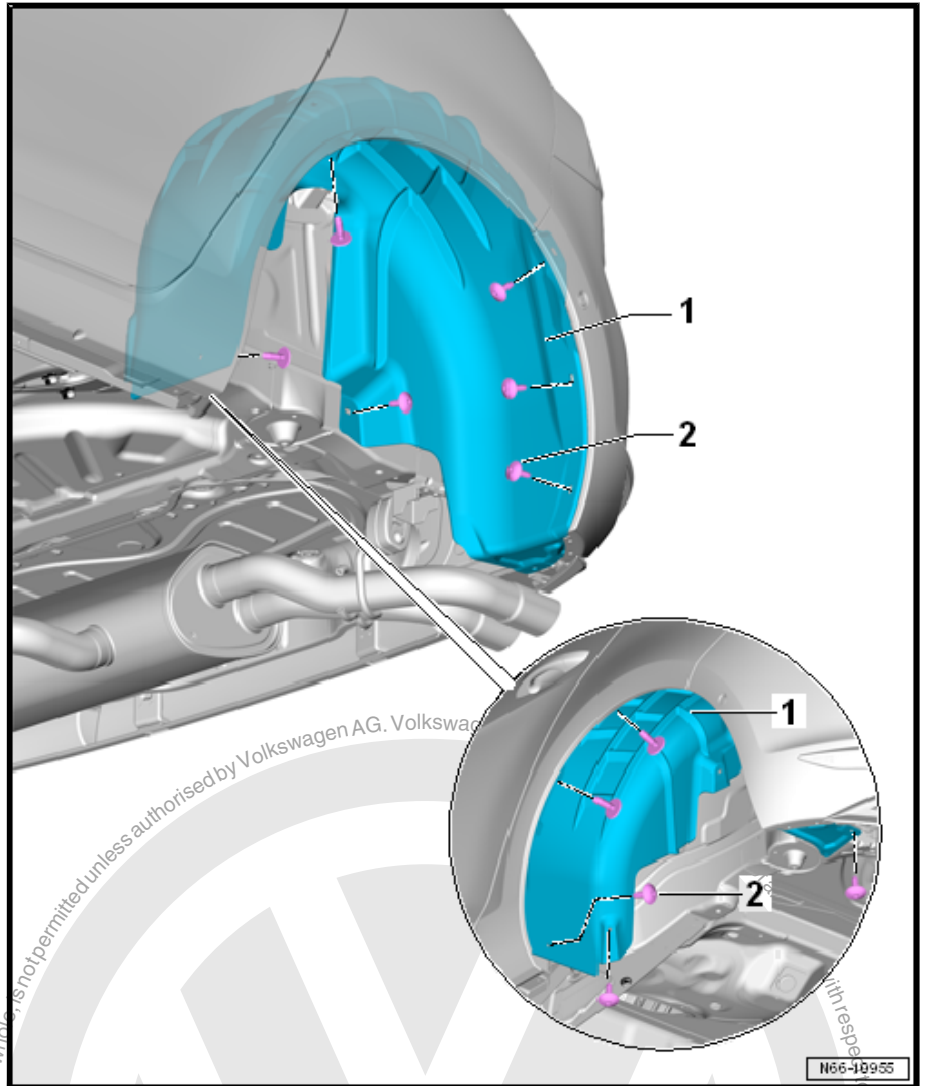
Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

- ◆ Removing and installing is described only for the left rear wheel housing liner. The right side is identical.
- ◆ Due to equipment variations, small deviations must be considered during removal and installation.



Removing

- Remove the wheel. Refer to ➤ Suspension, Wheels, Steering; Rep. Gr. 44 ; Wheels and Tires; Wheel Bolt Tightening Specifications .
- Remove the bolts -2-.
- Remove the rear wheel housing liner -1- from the wheel housing.

Sill Cover, Removing and Installing. Refer to ➤ [page 381](#) .



Installing



Note

Check the expanding nuts for damage and replace if necessary. Refer to -item 4- ➔ [Item 4 \(page 381\)](#) .

- Install the rear wheel housing liner -1- in the wheel housing without kinking.
- Install the wheel. Refer to ➔ Suspension, Wheels, Steering; Rep. Gr. 44 ; Wheels and Tires; Wheel Bolt Tightening Specifications .

Tightening Specifications





8 Name Badges and Emblems

⇒ ["8.1 Dimensions - Rear Lid Name Badges and Emblems", page 387](#)

⇒ ["8.2 Dimensions - Name Badges and Emblems on Fender", page 392](#)

⇒ ["8.3 Front Emblem, Removing and Installing", page 394](#)

⇒ ["8.4 Rear Emblem, Removing and Installing", page 398](#)

8.1 Dimensions - Rear Lid Name Badges and Emblems

⇒ ["8.1.1 Rear Lid Name Badge Dimension", page 387](#)

⇒ ["8.1.2 Dimension - Name Badge GTI/GTD on the Rear Lid", page 389](#)

⇒ ["8.1.3 Dimension - Name Badge e-Golf on the Rear Lid", page 390](#)

⇒ ["8.1.4 Dimension - Name Badge R on the Rear Lid", page 391](#)

Special tools and workshop equipment required

- ◆ Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A-
- ◆ Adhesive Strip Remover - VAS6349-



Note

- ◆ *The height dimension of the different engine name badges is identical.*
- ◆ *Pay attention to the following assembly instructions when installing the name badge.*

Assembly Instructions

- ◆ Heat the name badges or brand emblem before removing using a Hot Air Blower - VAG1416-
- ◆ When a name badge or emblem is removed and installed, use only the Adhesive Remover - D 002 000 10- to remove the adhesive residue.
- ◆ Remove any adhesive residue left by the tape using Adhesive Remover - VAS6349- .
- ◆ Make sure the adhesive surfaces are free of dust and grease.
- ◆ Attach the name badges or emblems immediately after cleaning them.
- ◆ Only remove the protective film right before assembly.
- ◆ The temperature must be approximately 21 °C (70 °F).
- ◆ It is not possible to remove the attached name badges or brand emblems without damaging them.

8.1.1 Rear Lid Name Badge Dimension



Note

Follow the instructions for installing the name badges. Refer to ⇒ [page 387](#) .



1 - Name Badge

- ❑ Model designation

2 - Name Badge

- ❑ Engine designation
- ❑ Different dimension for process designations without engine designation.

3 - Height Dimension

- ❑ 50.5 ± 1 mm, from the upper edge of the name badge to the tail lamp
- ❑ Additional designations are bonded 6.0 ± 1 mm under the engine designation.
- ❑ Process designations without engine designation are bonded from the lower edge of the name with a height dimension of 75.5 ± 1 mm.

4 - Side Dimension

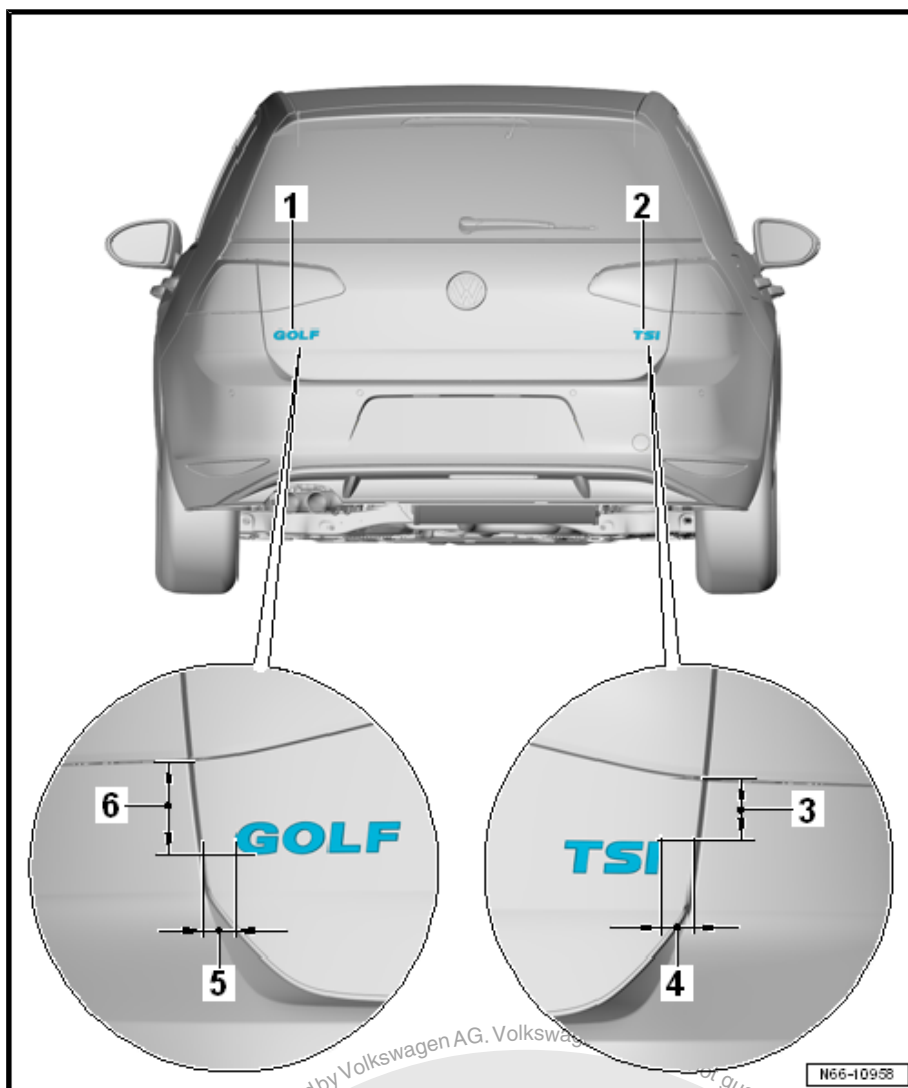
- ❑ 29.5 ± 1 mm, from the outer edge of the rear lid to the name badge
- ❑ Process designations without engine designation are bonded with a side dimension of 29.5 ± 1 mm.

5 - Side Dimension

- ❑ 26.5 ± 1 mm, from the outer edge of the rear lid to the name badge

6 - Height Dimension

- ❑ 75.5 ± 1 mm, from the lower edge of the name badge to the tail lamp





8.1.2 Dimension - Name Badge "GTI/GTD" on the Rear Lid



Note

Follow the instructions for installing the name badges. Refer to [page 387](#).

1 - Name Badge

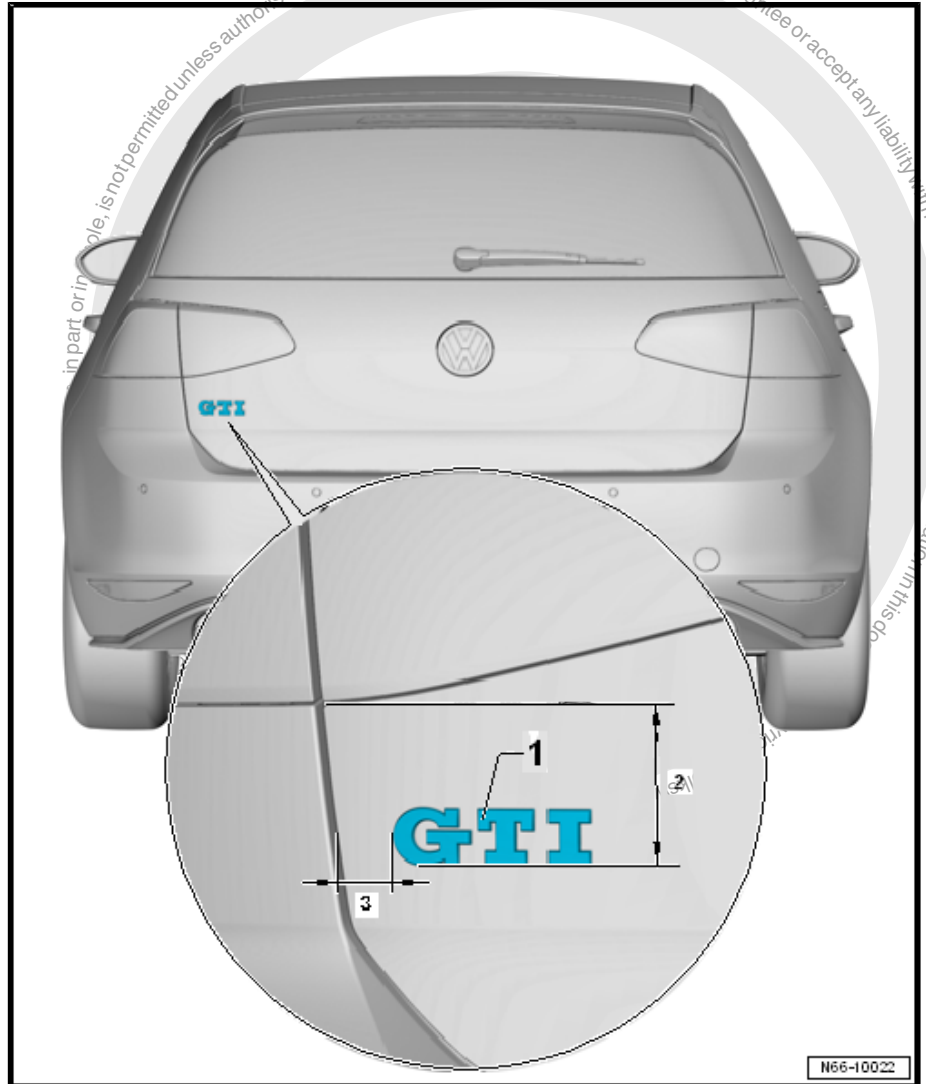
- ☐ Model designation

2 - Height Dimension

- ☐ 75.5 ± 1 mm, from the lower edge of the name badge to the tail lamp

3 - Side Dimension

- ☐ 26.5 ± 1 mm, from the outer edge of the rear lid to the name badge





8.1.3 Dimension - Name Badge “e-Golf” on the Rear Lid



Note

Follow the instructions for installing the name badges. Refer to [⇒ page 387](#).

1 - Name Badge

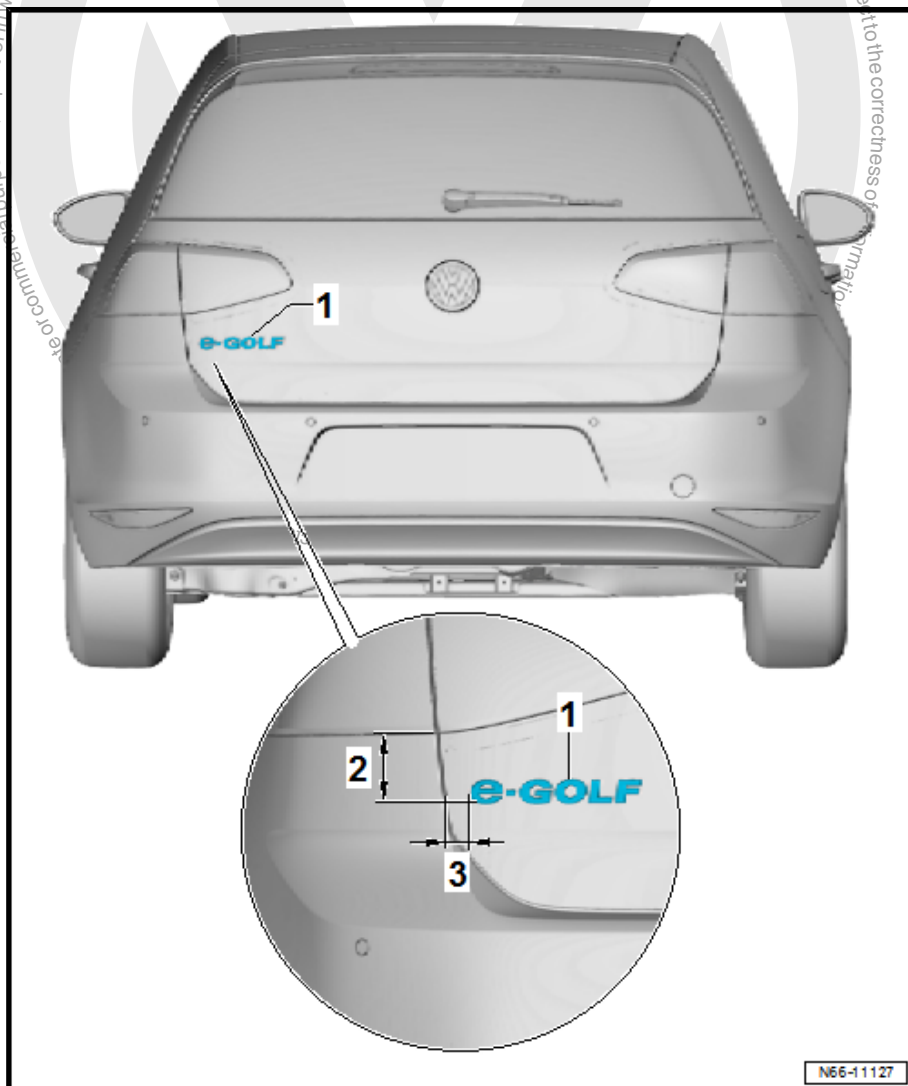
- ❑ Model designation

2 - Height Dimension

- ❑ 75.5 ± 1 mm, from the lower edge of the name badge to the tail lamp

3 - Side Dimension

- ❑ 26.5 ± 1 mm, from the outer edge of the rear lid to the name badge





8.1.4 Dimension - Name Badge "R" on the Rear Lid



Note

Follow the instructions for installing the name badges. Refer to [⇒ page 387](#).

1 - Name Badge

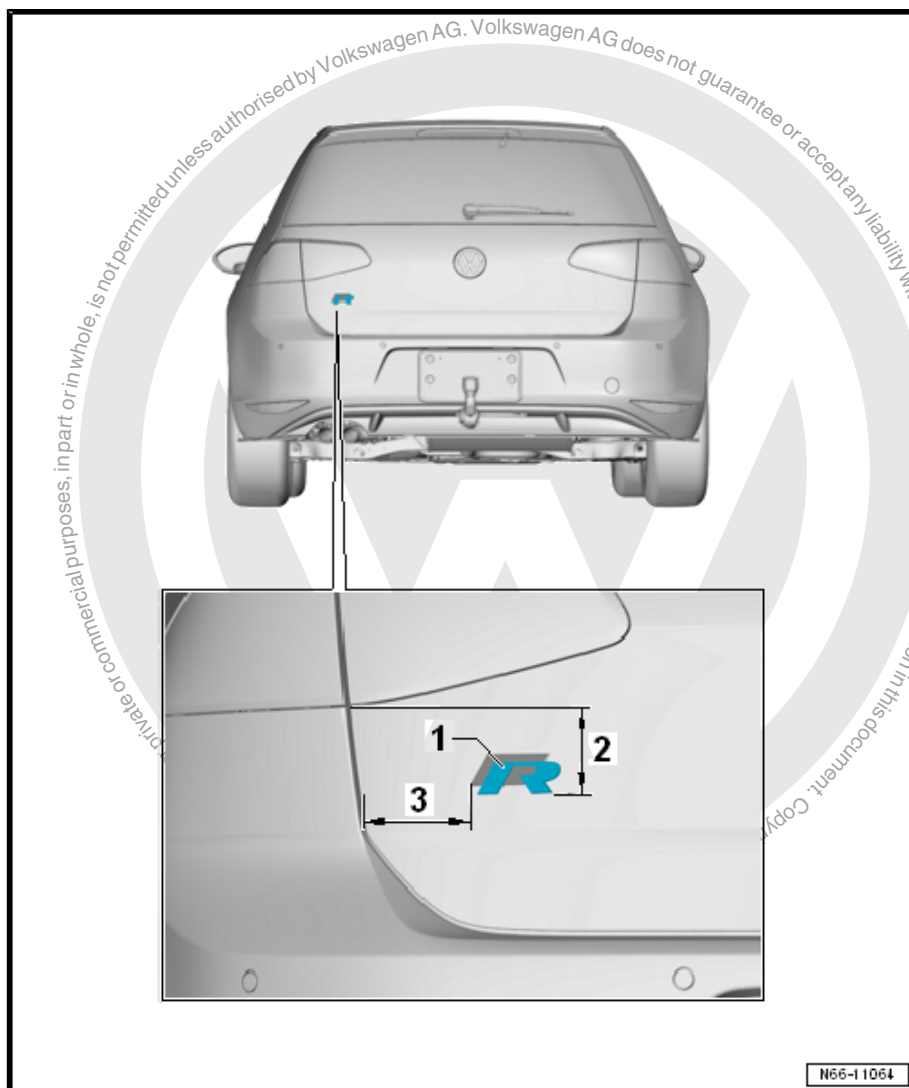
- ❑ Model designation

2 - Height Dimension

- ❑ 73 ± 1 mm, from the upper edge of the name badge to the tail lamp

3 - Side Dimension

- ❑ 50 ± 1 mm, from the outer edge of the rear lid to the name badge





8.2 Dimensions - Name Badges and Emblems on Fender

⇒ ["8.2.1 Dimensions - Name Badge on Fender", page 392](#)

⇒ ["8.2.2 Dimension - Name Badge on Fender R", page 393](#)

8.2.1 Dimensions - Name Badge on Fender



Note

The dimensions apply to all emblems, illustrated here as "GTI" as an example.

1 - Emblem

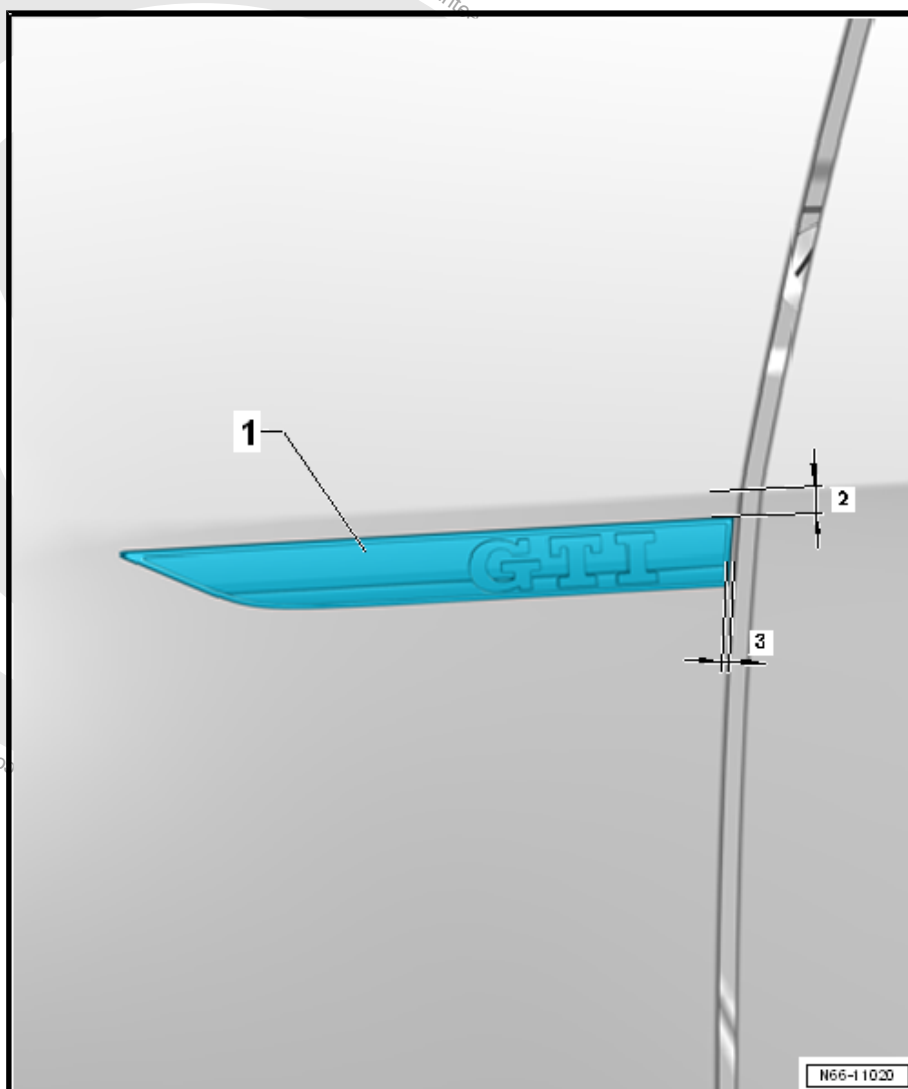
- Depending on the model or on special models the appearance is different.

2 - Height Dimension

- 5.0 ± 1 mm, from the name badge upper edge to the fender edge

3 - Side Dimension

- 1.5 ± 1 mm, from the outer edge of the fender to the name badge





8.2.2 Dimension - Name Badge on Fender "R"

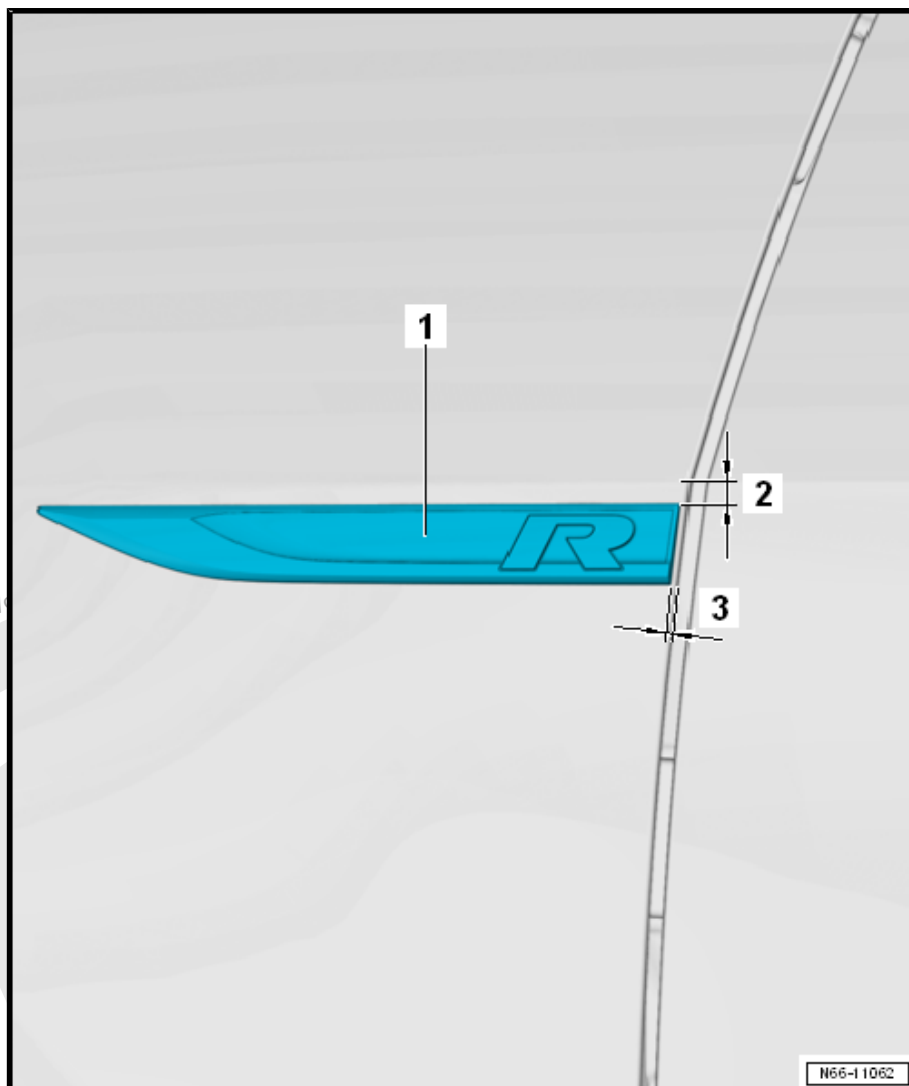
1 - Emblem

2 - Height Dimension

- 5.0 ± 1 mm, from the name badge upper edge to the fender edge

3 - Side Dimension

- 1.5 ± 1 mm, from the outer edge of the fender to the name badge



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8.3 Front Emblem, Removing and Installing

⇒ ["8.3.1 Brand Emblem, Removing and Installing", page 394](#)

⇒ ["8.3.2 Model Name on Radiator Grille, Removing and Installing", page 395](#)

⇒ ["8.3.3 Model Name R-Line, Removing and Installing", page 396](#)

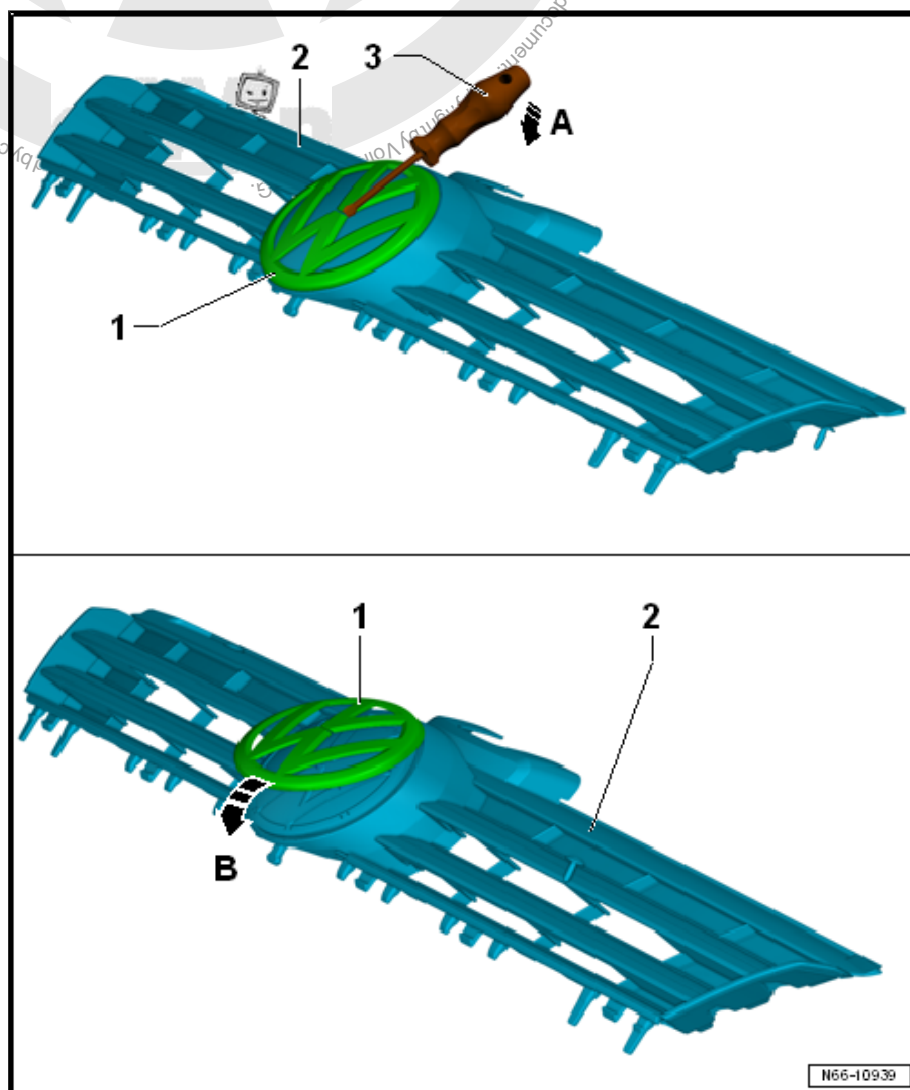
⇒ ["8.3.4 Model Name R, Removing and Installing", page 397](#)

8.3.1 Brand Emblem, Removing and Installing



Note

The emblem cannot be removed without damaging it.



Removing

- Pry the brand emblem -1- carefully with a screwdriver -3- in the direction of the -arrow A- from the radiator grille -2-.



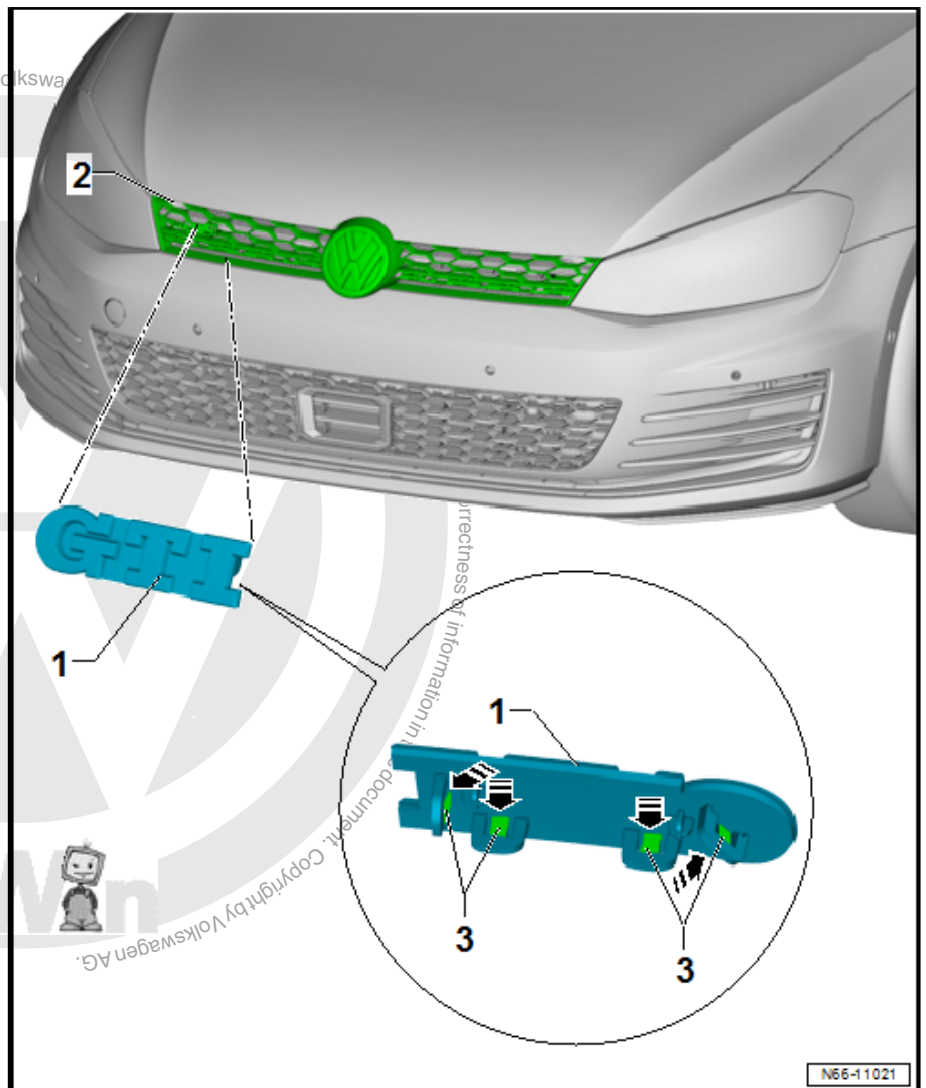
Installing

- Press the brand emblem -1- on the radiator grille -2- until it engages audibly.

8.3.2 Model Name on Radiator Grille, Removing and Installing



The description applies to all emblems, "GTI" is illustrated here as an example.



Removing

- Remove the radiator grille. Refer to [⇒ "1.3 Radiator Grille, Removing and Installing", page 314](#).
- Release the hooks on the back -3- with a screwdriver -arrows-.
- Pull the model name -1- from the radiator grille -2-.



Installing

- Press the model name -1- on the radiator grille -2- until the hooks -3- engage audibly.

8.3.3 Model Name “R-Line”, Removing and Installing

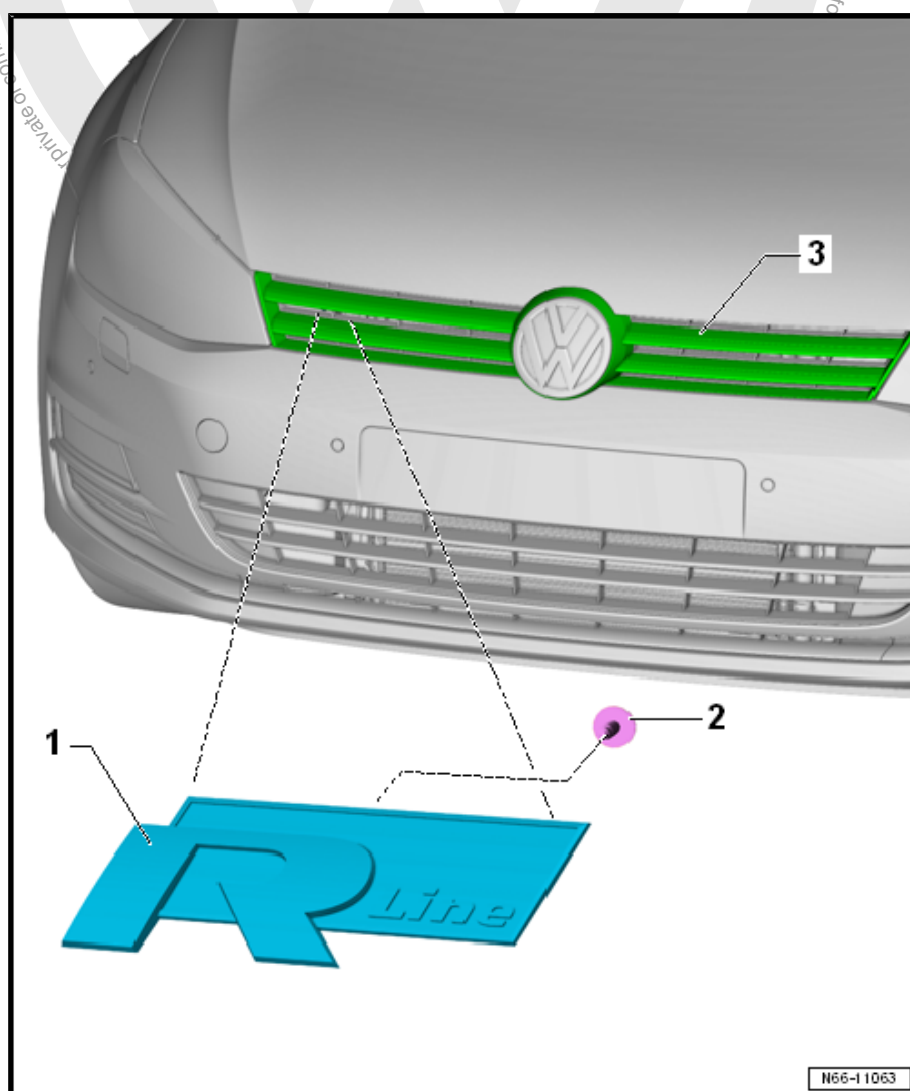
Special tools and workshop equipment required

- ♦ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

Can be removed only when radiator grille -3- is removed



Removing

- Remove the radiator grille. Refer to [⇒ “1.3 Radiator Grille, Removing and Installing”, page 314](#).
- Remove the bolt -2- from the inside of the radiator grille -3-.
- Remove the emblem “R-Line” -1- from the radiator grille -3- forward.



Installing

Install in reverse order of removal. Note the following:

Tightening Specifications

Component	Tightening Specifications
Emblem »R-Line«	2.0 Nm

8.3.4 Model Name "R", Removing and Installing

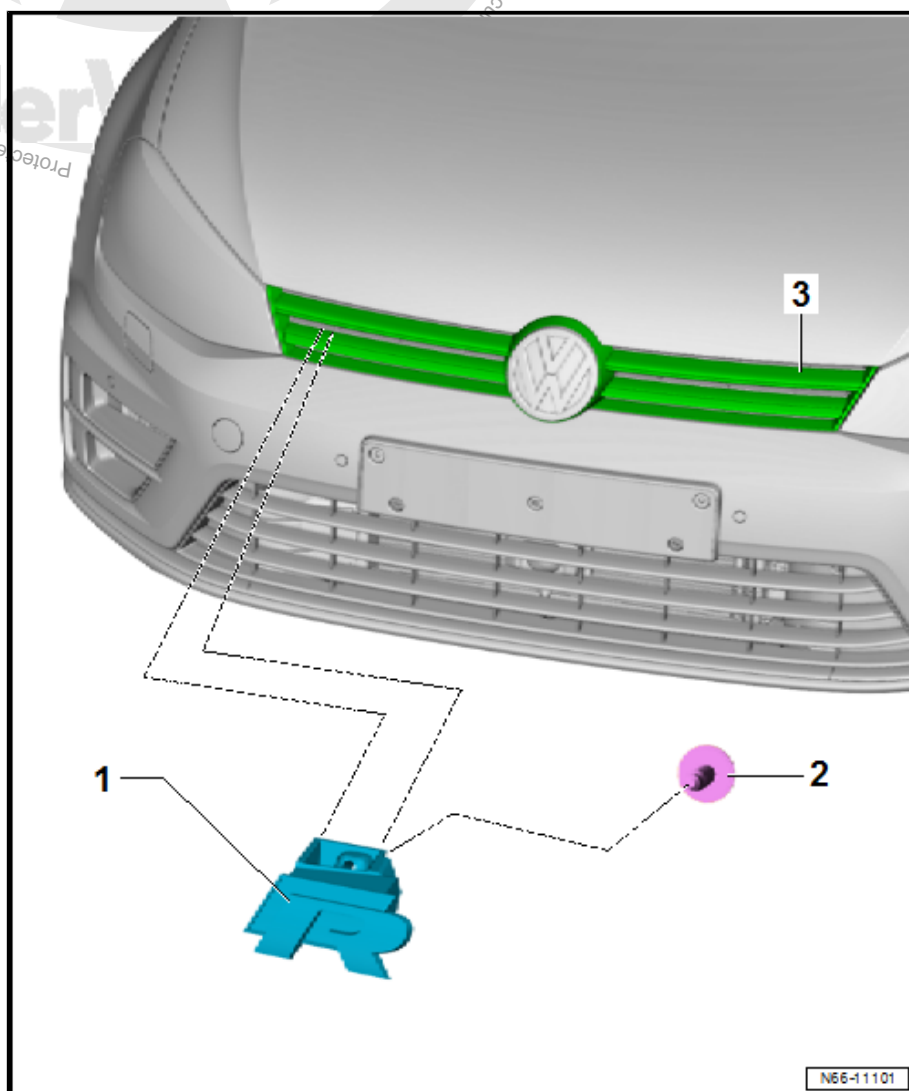
Special tools and workshop equipment required

- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-



Note

Can be removed only when radiator grille -3- is removed





Removing

- Remove the radiator grille. Refer to
⇒ ["1.3 Radiator Grille, Removing and Installing", page 314](#) .
- Remove the bolt -2- from the inside of the radiator grille -3-.
- Remove the emblem "R" -1- from the radiator grille -3- forward.

Installing

Install in reverse order of removal. Note the following:

Tightening Specifications

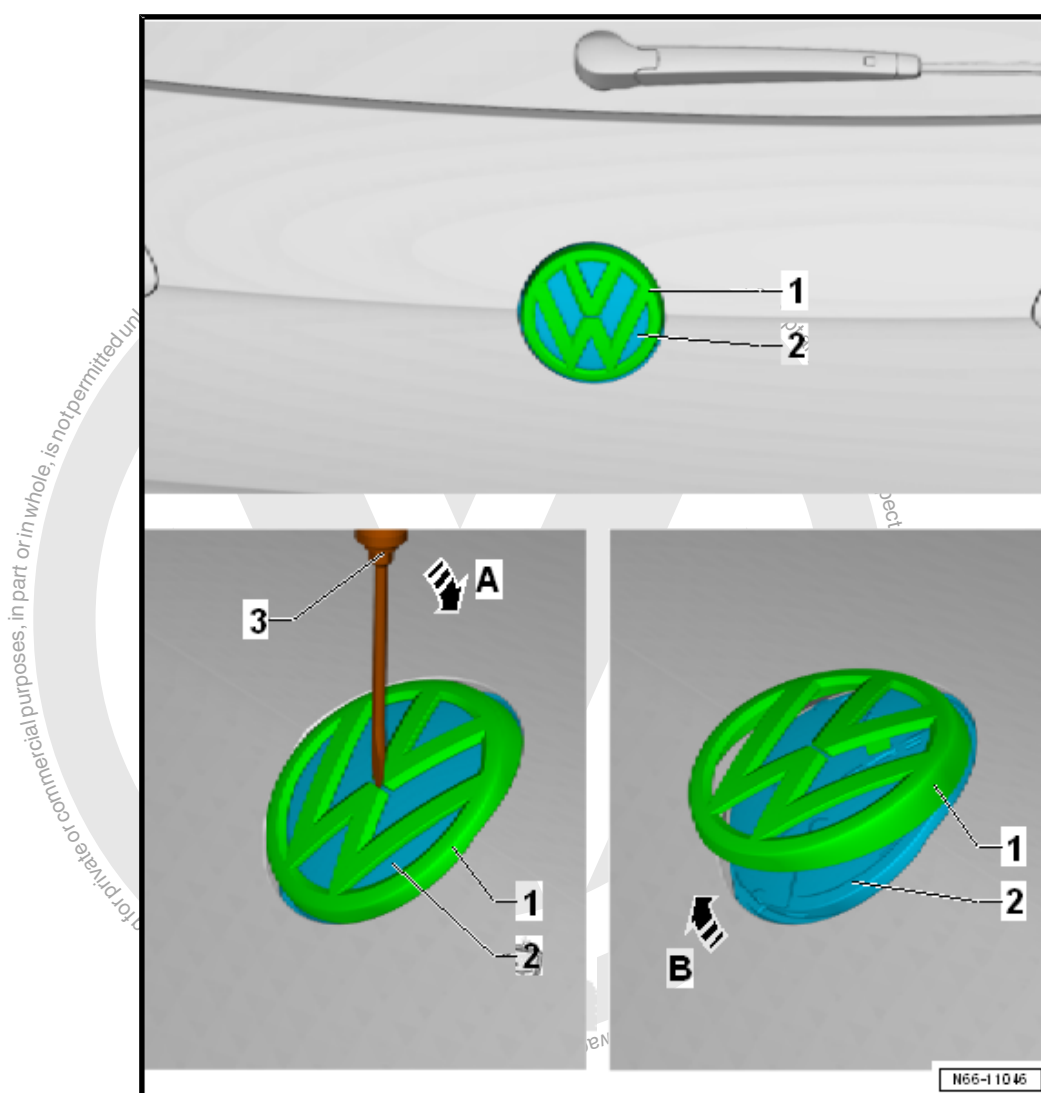
Component	Tightening Specifications
Emblem "R"	2.0 Nm

8.4 Rear Emblem, Removing and Installing



Note

The emblem cannot be removed without damaging it.





Removing

- Pry the brand emblem -1- carefully with a screwdriver -3- in the direction of the -arrow A- from the swiveling emblem -2-.

Installing

- Press the brand emblem -1- on the swiveling emblem -2- until it engages audibly.





9 Other Attachments

⇒ ["9.1 Overview - Other Attachments", page 400](#)

9.1 Overview - Other Attachments

⇒ ["9.1.1 Overview - Other Attachments R-Line", page 400](#)

⇒ ["9.1.2 Overview - Other Attachments R", page 401](#)

9.1.1 Overview - Other Attachments "R-Line"

1 - Front Bumper Cover

- ❑ "R-Line". Refer to
⇒ ["1.2.4 Overview - Attachments, R-Line", page 245](#)

2 - Radiator Grille Emblems

- ❑ "R-Line". Refer to
⇒ ["8.3.3 Model Name R-Line, Removing and Installing", page 396](#)

3 - Rear Name Badge

- ❑ "R-Line". Refer to
⇒ ["8.1.4 Dimension - Name Badge R on the Rear Lid", page 391](#)

4 - Rear Bumper Cover

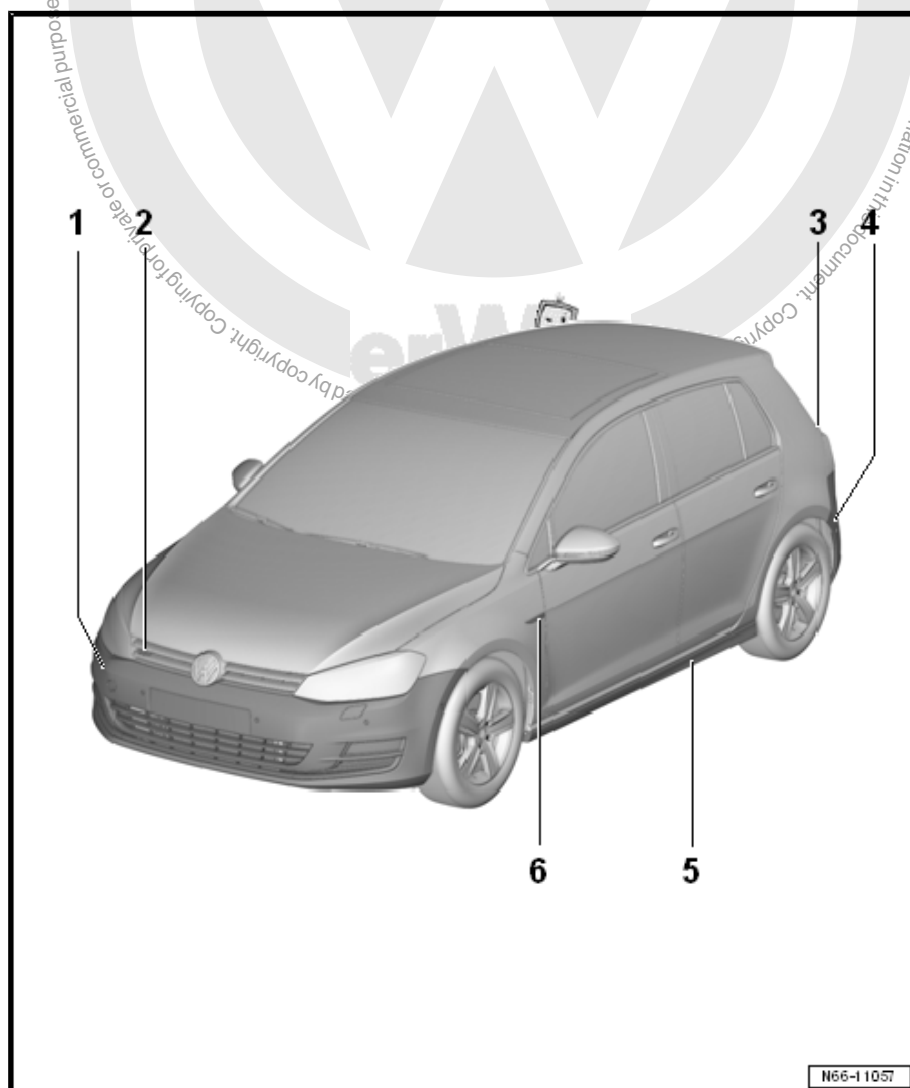
- ❑ "R-Line". Refer to
⇒ ["2.3.3 Overview - Attachments, R-Line", page 260](#)

5 - Extended Sill Panel

- ❑ "R-Line". Refer to
⇒ ["3.5.2 Rocker Panel Extension, Removing and Installing, R-Line and R", page 340](#)

6 - Fender Name Badge

- ❑ "R-Line". Refer to
⇒ ["8.2.2 Dimension - Name Badge on Fender R", page 393](#)





9.1.2 Overview - Other Attachments "R"

1 - Front Bumper Cover

- ❑ "R". Refer to
⇒ ["1.2.5 Overview - Attachments, R", page 246](#)

2 - Radiator Grille Emblems

- ❑ "R". Refer to
⇒ ["8.3.4 Model Name R, Removing and Installing", page 397](#)

3 - Rear Name Badge

- ❑ "R". Refer to
⇒ ["8.1.4 Dimension - Name Badge R on the Rear Lid", page 391](#)

4 - Rear Bumper Cover

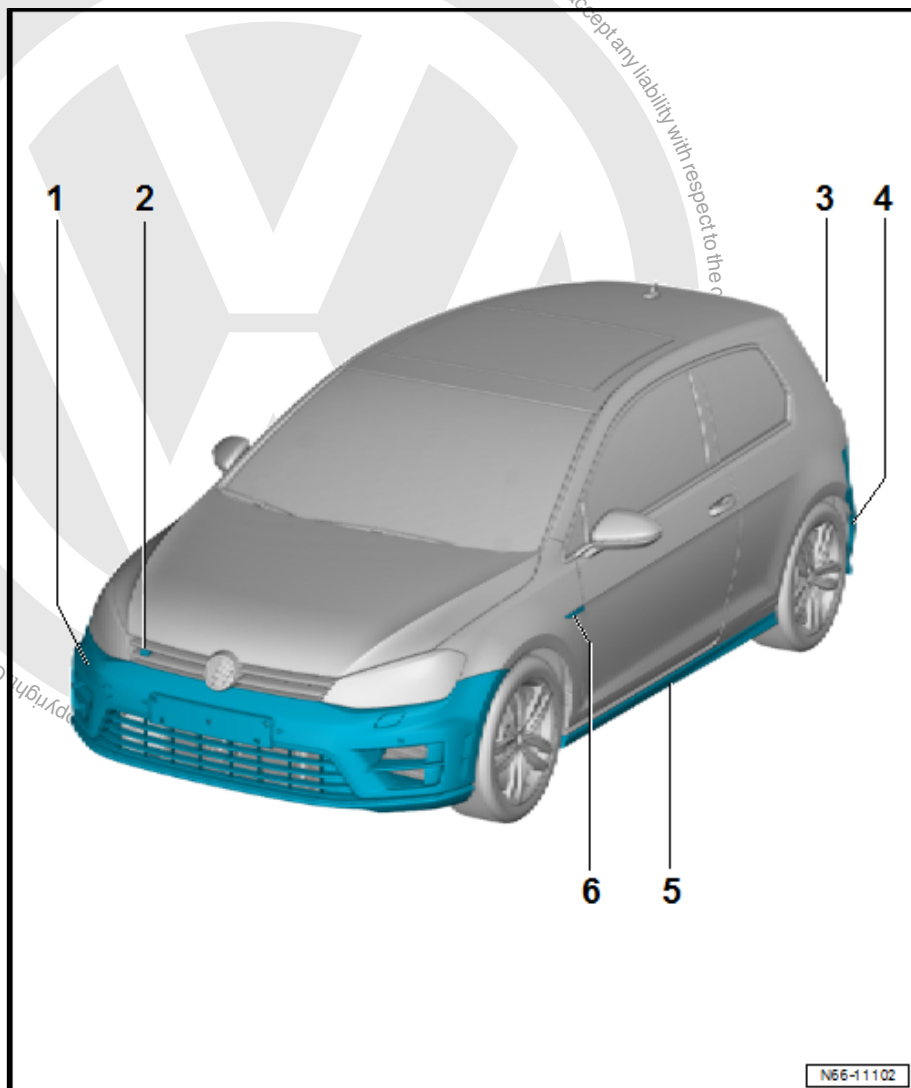
- ❑ "R". Refer to
⇒ ["2.3.4 Overview - Attachments, R", page 261](#)

5 - Extended Sill Panel

- ❑ "R". Refer to
⇒ ["3.5.2 Rocker Panel Extension, Removing and Installing, R-Line and R", page 340](#)

6 - Fender Name Badge

- ❑ "R". Refer to
⇒ ["8.2.2 Dimension - Name Badge on Fender R", page 393](#)



N66-11102



10 Trailer Hitch

Volkswagen R GmbH "R-Line" optional equipment

⇒ "10.1 Overview - Trailer Hitch", page 402

⇒ "10.2 Overview - Release Cable", page 403

⇒ "10.3 Trailer Hitch, Removing and Installing", page 404

⇒ "10.4 Release Cable, Removing and Installing", page 406

10.1 Overview - Trailer Hitch



Note

- ◆ Depending on the version, there may be small differences.
- ◆ The tightening specifications only apply to factory-installed trailer hitches.
- ◆ If a different trailer hitch is installed, ask the manufacturer for the tightening specifications.

1 - Trailer Hitch

- ☐ Swiveling trailer hitch

2 - Bolt

- ☐ 20 Nm + 90°
- ☐ Gas-tight sealing threaded connections
- ☐ Quantity: 3



DANGER!

The bolts are actually sealing threaded connections and seal off the passenger compartment from exhaust gas. They must always be installed.

3 - Release Cable

- ☐ With profile

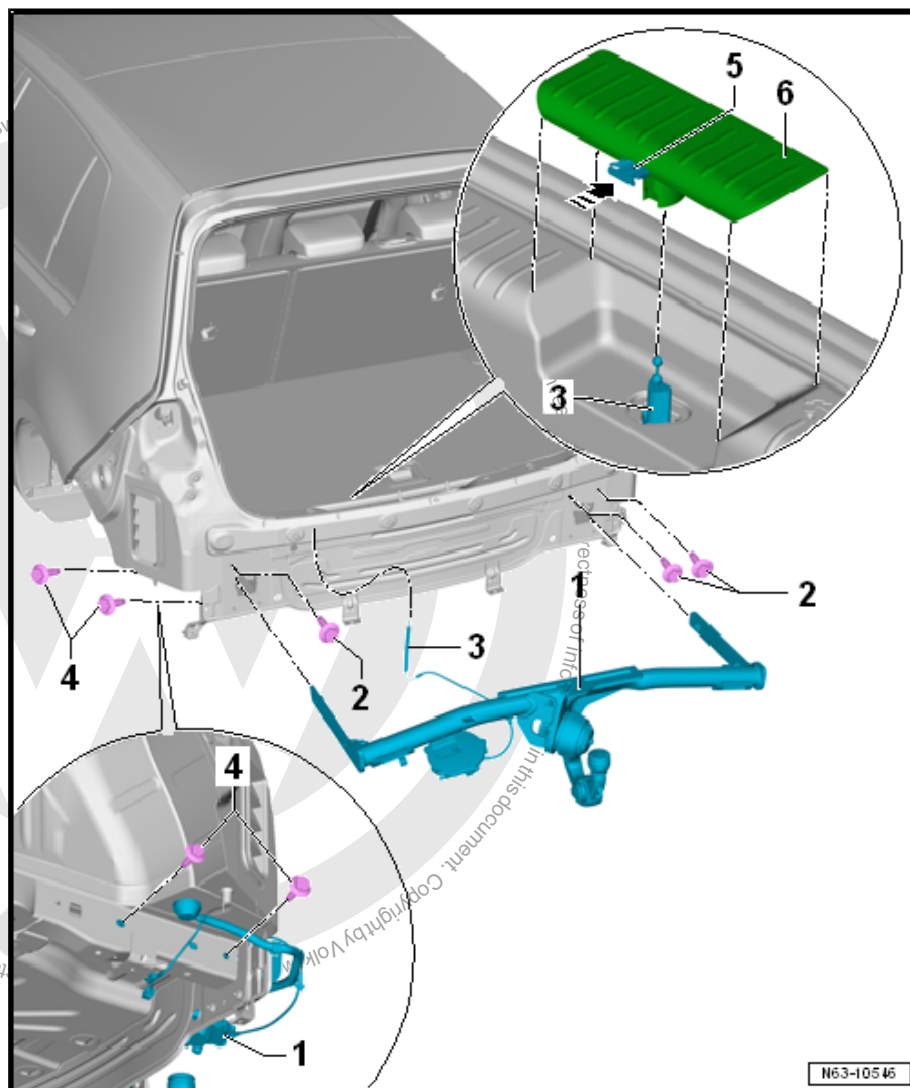
4 - Bolt

- ☐ 50 Nm + 90°
- ☐ Quantity: 2 on each side
- ☐ Always replace bolts after loosening them

5 - Locking Mechanism

6 - Release Bracket

- ☐ Part of the trailer hitch



N63-105 46



10.2 Overview - Release Cable

1 - Release Lever

- ☐ In the vehicle interior

2 - Frame

- ☐ In the lock carrier trim panel.

3 - Grommet

- ☐ In the back panel.

4 - Release Cable

- ☐ From the transmission to the release lever
- ☐ Is a component of the transmission and cannot be replaced individually.

5 - Hex Nut

- ☐ 5 Nm
- ☐ Always replace after removing the transmission.

6 - Transmission

- ☐ When the release cable is damaged replace the entire transmission with both release cables.

7 - Washer

- ☐ Always replace after removing the transmission.

8 - Bolt

- ☐ 5 Nm
- ☐ Always replace after removing the transmission.

9 - Cover

- ☐ Always replace together with the bolts.

10 - Bolts

- ☐ 3 Nm
- ☐ Always replace together with the cover.

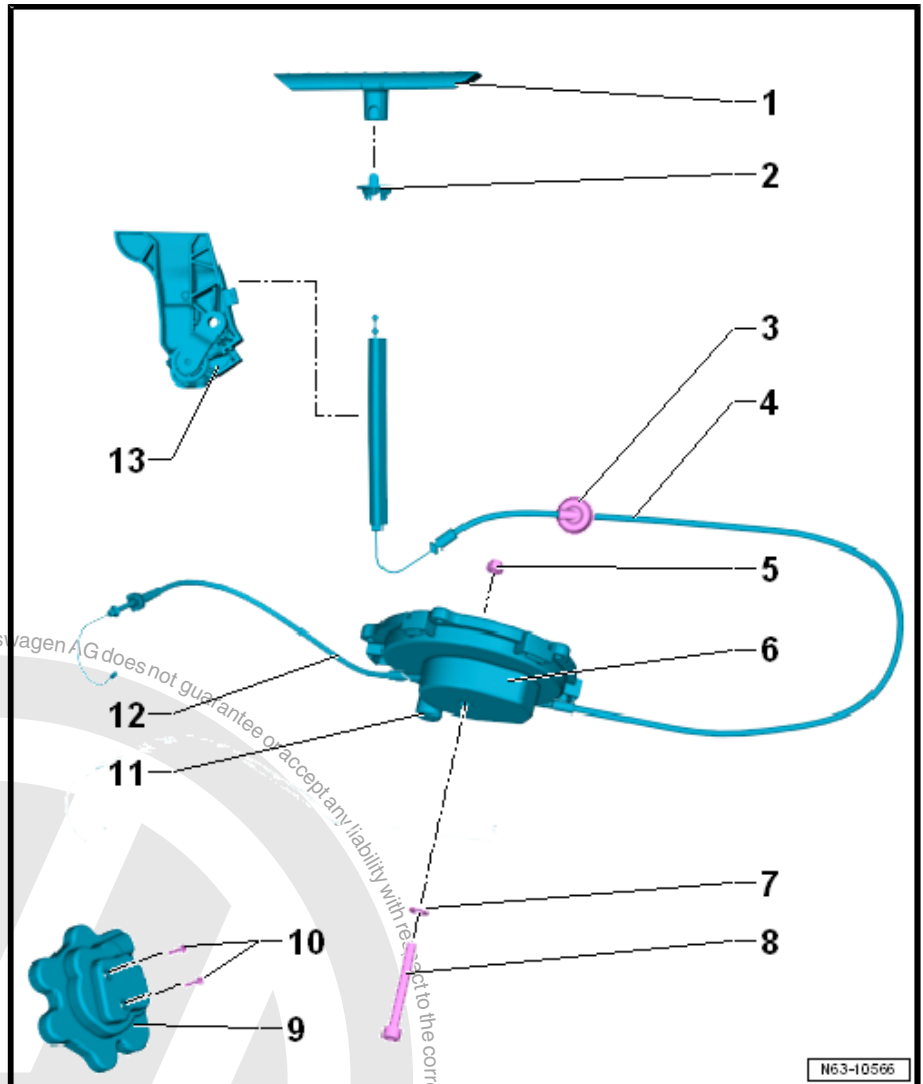
11 - Cap

12 - Release Cable

- ☐ From the transmission to the release lever
- ☐ Is a component of the transmission and cannot be replaced individually.

13 - Diverting Eye

- ☐ Installed in vehicle interior on the back panel.





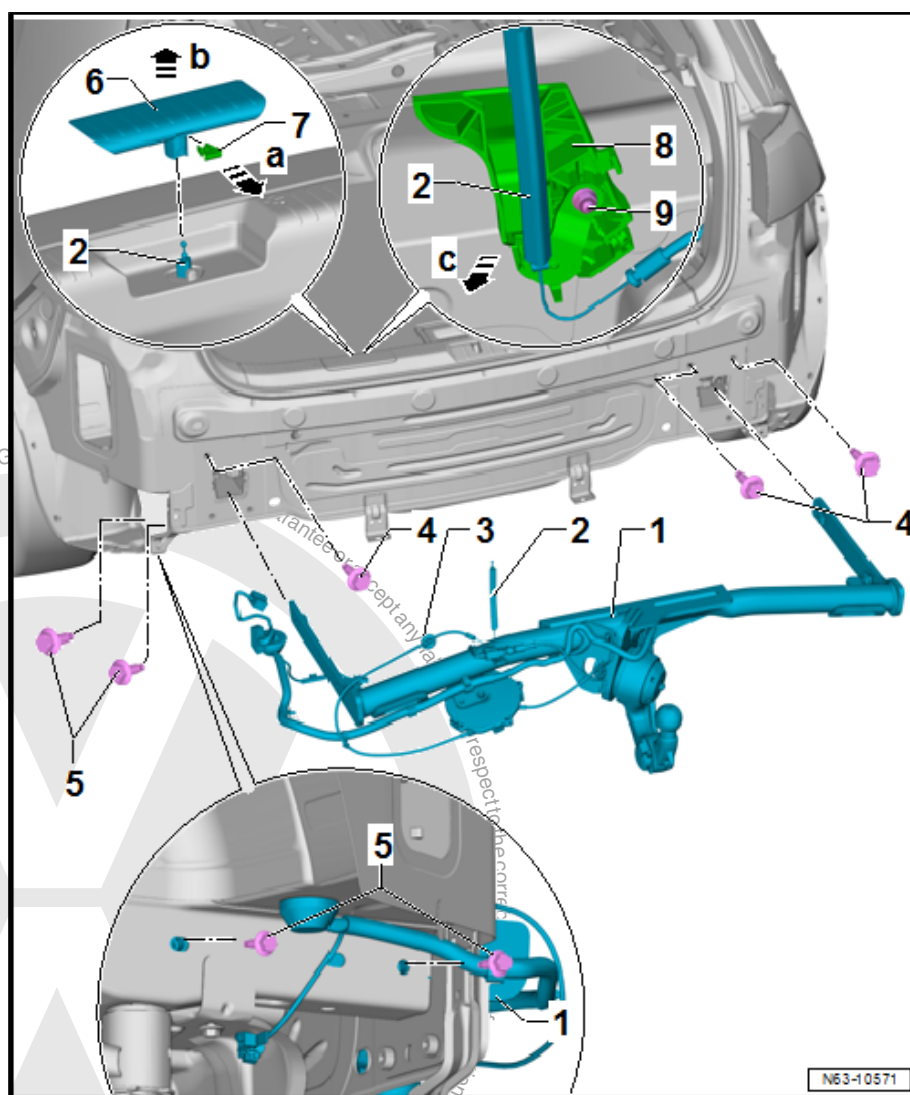
10.3 Trailer Hitch, Removing and Installing

Removing



Note

- ◆ Depending on the version, slight deviations must be considered.
- ◆ There is a possibility that on some versions the exhaust system disengages and the heat shield is pushed to the side.



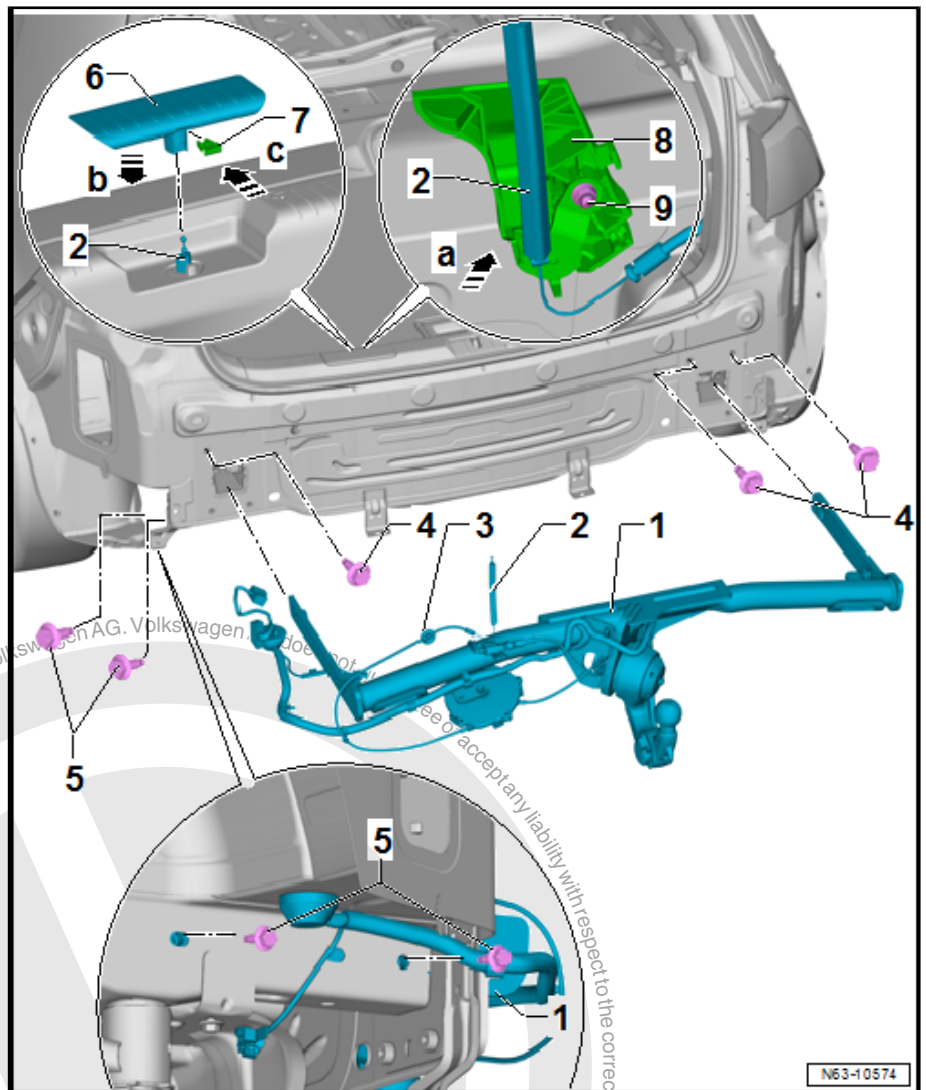
- Remove bumper cover. Refer to
⇒ [“2.5 Bumper Cover, Removing and Installing”, page 263](#)
- Pry the locking mechanism -7- on the release lever -6-
-arrow a-.
- Pry the release lever -6- from the release lever -2- -arrow b-.
- Pry out the release cable -3- from the lock carrier trim panel.

Remove the lock carrier trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Lock Carrier Trim Panel, Removing and Installing .



- Guide out the release cable -2- from the diverting eye -8- -arrow c-.
- Remove the release cable and grommet -3- from the vehicle.
- Remove the bolts -5-.
- Remove the trailer hitch -1- parallel from the longitudinal member.

Installing



- Install in reverse order of removal.



DANGER!

Bolts -4- are sealing threaded connections and seal the interior from exhaust gases and must be installed in any case.

The grommet -3- on the release cable must be attached correctly on the back panel.

- Perform a functionality test before installing the trailer hitch.



10.4 Release Cable, Removing and Installing

Removing



WARNING

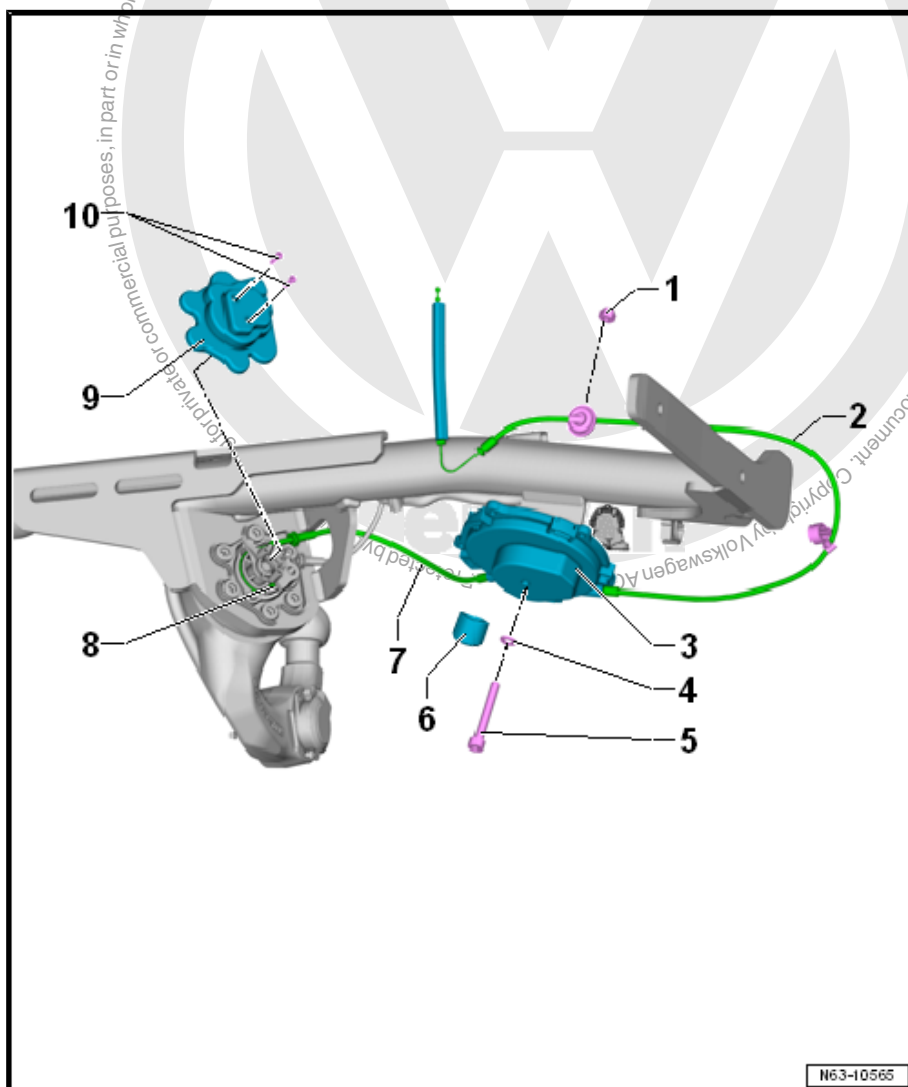
Loosen only the designated screws.

Do not perform any work other than those described.



Note

- ◆ The trailer hitch is not completely removed.
- ◆ The bolts -10- have a special construction to make removing more difficult.



- Loosen the trailer hitch (refer to [⇒ "10.3 Trailer Hitch, Removing and Installing", page 404](#)) and remove slightly.
- Remove the bolts -10- using pliers and remove the cover -9-.



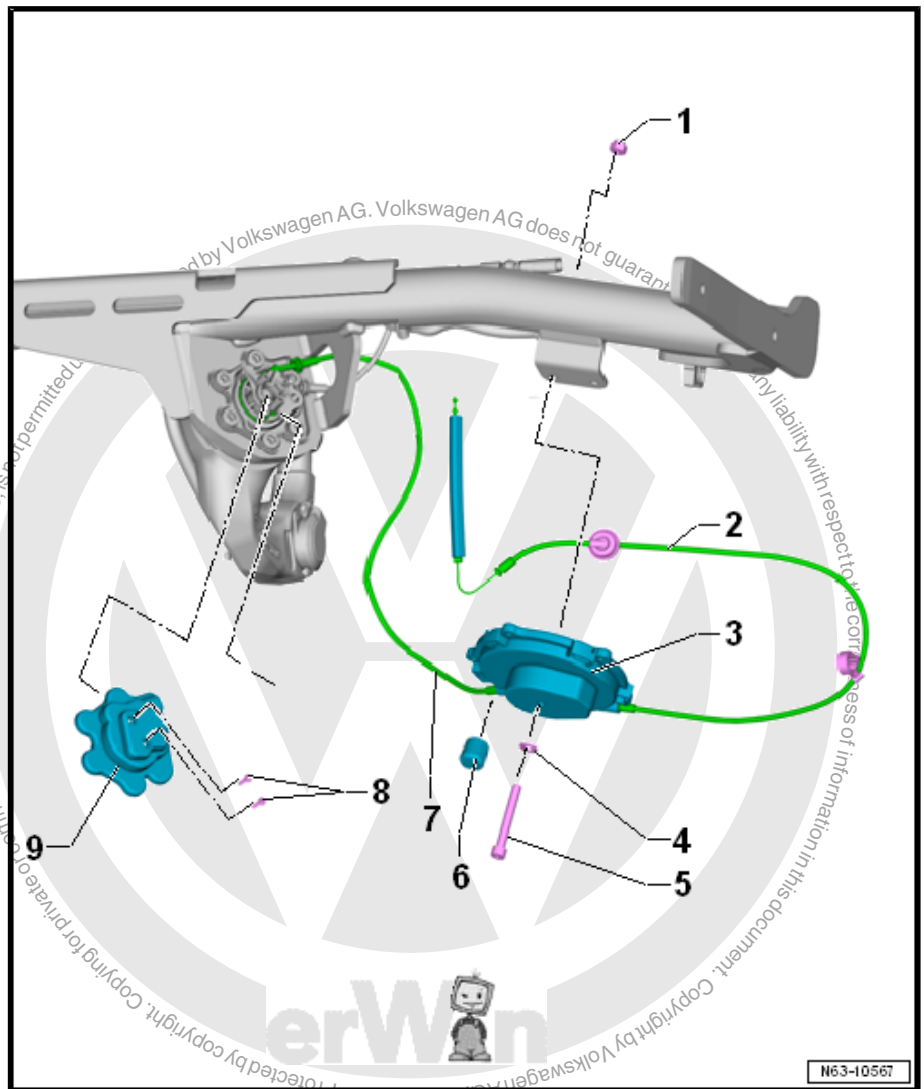
- Turn the turntable -8- slightly and remove the release cable -7-.
- Loosen the bolt -5- and hex nut -1- and remove the transmission -3- with both release cables -2 and 7-.

Installing



Note

- ◆ *There are always new bolted connections -1, 5, and 8- and a new cover -9- to be used.*
- ◆ *The cap -6- must be installed undamaged.*
- ◆ *Clean the area where the seal lays before positioning the cover.*
- ◆ *Water must not leak into the swiveling mechanism.*
- ◆ *Before installing the trailer hitch on the vehicle perform a function test.*



- Secure the transmission -3- with new bolts -5-, washer -4-, and hex nut -1-.



- Engage the release cable -7- in the turntable.
- Secure the new cover -9- with new bolts -8-.

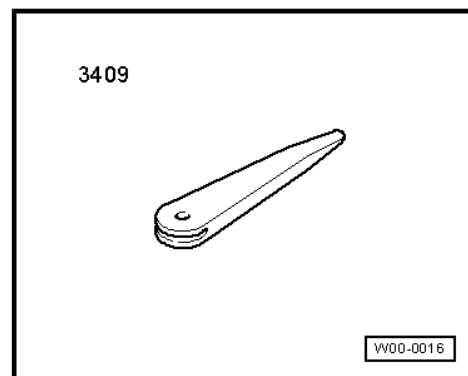




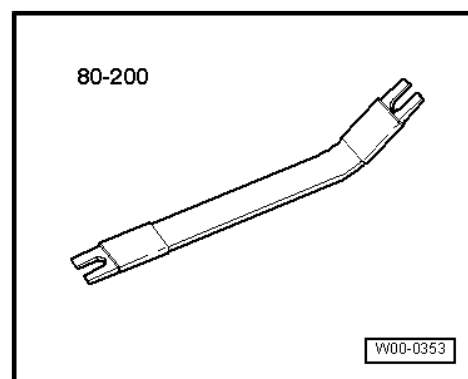
11 Special Tools

Special tools and workshop equipment required

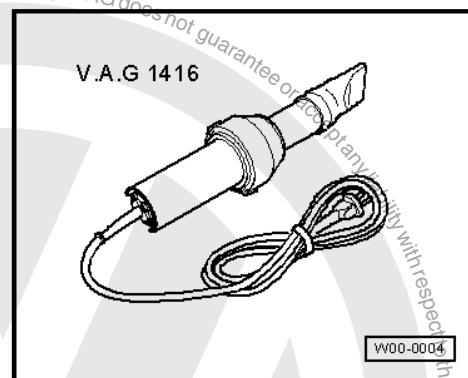
- ◆ Trim Removal Wedge - 3409-



- ◆ Pry Lever - 80-200-



- ◆ Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A-



- ◆ Torque Wrench 1783 - 2-10Nm - VAG1783-





◆ Engine and Gearbox Jack - VAS6931-





12 Revision History

DRUCK NUMBER: K0059211521

Factory Edition	Edit Edition	Job Type	Feedback	Notes	Quality Checked By
05.2015	08/13/2015	Local Update		"The side spoiler cannot be removed without damaging it." removed from "Side Spoiler, Removing and Installing" chapter.	Tom Perry
05.2015	06/05/2015	Factory Update			Joe Y
-	05/04/2015	Feed back	1094690		Joe Y

Cautions & Warnings

Please read these WARNINGS and CAUTIONS before proceeding with maintenance and repair work. You must answer that you have read and you understand these WARNINGS and CAUTIONS before you will be allowed to view this information.

- If you lack the skills, tools and equipment, or a suitable workshop for any procedure described in this manual, we suggest you leave such repairs to an authorized Volkswagen retailer or other qualified shop. We especially urge you to consult an authorized Volkswagen retailer before beginning repairs on any vehicle that may still be covered wholly or in part by any of the extensive warranties issued by Volkswagen.
- Disconnect the battery negative terminal (ground strap) whenever you work on the fuel system or the electrical system. Do not smoke or work near heaters or other fire hazards. Keep an approved fire extinguisher handy.
- Volkswagen is constantly improving its vehicles and sometimes these changes, both in parts and specifications, are made applicable to earlier models. Therefore, part numbers listed in this manual are for reference only. Always check with your authorized Volkswagen retailer parts department for the latest information.
- Any time the battery has been disconnected on an automatic transmission vehicle, it will be necessary to reestablish Transmission Control Module (TCM) basic settings using the VAG 1551 Scan Tool (ST).
- Never work under a lifted vehicle unless it is solidly supported on stands designed for the purpose. Do not support a vehicle on cinder blocks, hollow tiles or other props that may crumble under continuous load. Never work under a vehicle that is supported solely by a jack. Never work under the vehicle while the engine is running.
- For vehicles equipped with an anti-theft radio, be sure of the correct radio activation code before disconnecting the battery or removing the radio. If the wrong code is entered when the power is restored, the radio may lock up and become inoperable, even if the correct code is used in a later attempt.
- If you are going to work under a vehicle on the ground, make sure that the ground is level. Block the wheels to keep the vehicle from rolling. Disconnect the battery negative terminal (ground strap) to prevent others from starting the vehicle while you are under it.
- Do not attempt to work on your vehicle if you do not feel well. You increase the danger of injury to yourself and others if you are tired, upset or have taken medicine or any other substances that may impair you or keep you from being fully alert.
- Never run the engine unless the work area is well ventilated. Carbon monoxide (CO) kills.
- Always observe good workshop practices. Wear goggles when you operate machine tools or work with acid. Wear goggles, gloves and other protective clothing whenever the job requires working with harmful substances.
- Tie long hair behind your head. Do not wear a necktie, a scarf, loose clothing, or a necklace when you work near machine tools or running engines. If your hair, clothing, or jewelry were to get caught in the machinery, severe injury could result.
- Do not re-use any fasteners that are worn or deformed in normal use. Some fasteners are designed to be used only once and are unreliable and may fail if used a second time. This includes, but is not limited to, nuts, bolts, washers, circlips and cotter pins. Always follow the recommendations in this manual - replace these fasteners with new parts where indicated, and any other time it is deemed necessary by inspection.

Cautions & Warnings

- Illuminate the work area adequately but safely. Use a portable safety light for working inside or under the vehicle. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.
- Friction materials such as brake pads and clutch discs may contain asbestos fibers. Do not create dust by grinding, sanding, or by cleaning with compressed air. Avoid breathing asbestos fibers and asbestos dust. Breathing asbestos can cause serious diseases such as asbestosis or cancer, and may result in death.
- Finger rings should be removed so that they cannot cause electrical shorts, get caught in running machinery, or be crushed by heavy parts.
- Before starting a job, make certain that you have all the necessary tools and parts on hand. Read all the instructions thoroughly; do not attempt shortcuts. Use tools that are appropriate to the work and use only replacement parts meeting Volkswagen specifications. Makeshift tools, parts and procedures will not make good repairs.
- Catch draining fuel, oil or brake fluid in suitable containers. Do not use empty food or beverage containers that might mislead someone into drinking from them. Store flammable fluids away from fire hazards. Wipe up spills at once, but do not store the oily rags, which can ignite and burn spontaneously.
- Use pneumatic and electric tools only to loosen threaded parts and fasteners. Never use these tools to tighten fasteners, especially on light alloy parts. Always use a torque wrench to tighten fasteners to the tightening torque listed.
- Keep sparks, lighted matches, and open flame away from the top of the battery. If escaping hydrogen gas is ignited, it will ignite gas trapped in the cells and cause the battery to explode.
- Be mindful of the environment and ecology. Before you drain the crankcase, find out the proper way to dispose of the oil. Do not pour oil onto the ground, down a drain, or into a stream, pond, or lake. Consult local ordinances that govern the disposal of wastes.
- The air-conditioning (A/C) system is filled with a chemical refrigerant that is hazardous. The A/C system should be serviced only by trained automotive service technicians using approved refrigerant recovery/recycling equipment, trained in related safety precautions, and familiar with regulations governing the discharging and disposal of automotive chemical refrigerants.
- Before doing any electrical welding on vehicles equipped with anti-lock brakes (ABS), disconnect the battery negative terminal (ground strap) and the ABS control module connector.
- Do not expose any part of the A/C system to high temperatures such as open flame. Excessive heat will increase system pressure and may cause the system to burst.
- When boost-charging the battery, first remove the fuses for the Engine Control Module (ECM), the Transmission Control Module (TCM), the ABS control module, and the trip computer. In cases where one or more of these components is not separately fused, disconnect the control module connector(s).
- Some of the vehicles covered by this manual are equipped with a supplemental restraint system (SRS), that automatically deploys an airbag in the event of a frontal impact. The airbag is operated by an explosive device. Handled improperly or without adequate safeguards, it can be accidentally activated and cause serious personal injury. To guard against personal injury or airbag system failure, only trained Volkswagen Service technicians should test, disassemble or service the airbag system.

Cautions & Warnings

- Do not quick-charge the battery (for boost starting) for longer than one minute, and do not exceed 16.5 volts at the battery with the boosting cables attached. Wait at least one minute before boosting the battery a second time.
- Never use a test light to conduct electrical tests of the airbag system. The system must only be tested by trained Volkswagen Service technicians using the VAG 1551 Scan Tool (ST) or an approved equivalent. The airbag unit must never be electrically tested while it is not installed in the vehicle.
- Some aerosol tire inflators are highly flammable. Be extremely cautious when repairing a tire that may have been inflated using an aerosol tire inflator. Keep sparks, open flame or other sources of ignition away from the tire repair area. Inflate and deflate the tire at least four times before breaking the bead from the rim. Completely remove the tire from the rim before attempting any repair.
- When driving or riding in an airbag-equipped vehicle, never hold test equipment in your hands or lap while the vehicle is in motion. Objects between you and the airbag can increase the risk of injury in an accident.

I have read and I understand these Cautions and Warnings.