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Repair Manual

Jetta 2011 ➤
Jetta 2013 ➤

Body Exterior

Edition 06.2014

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

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

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Contents

50 - Body Front 1

1 Lock Carrier 1
1.1 Tools 1
1.2 Lock Carrier - Attachments 1
1.3 Service Position 4
1.4 Lock Carrier with Attachments, Removing and Installing 7
1.5 Pressure Hoses, Removing and Installing 10

2 Fender 12
2.1 Tools 12
2.2 Overview - Front Fender 12
2.3 Front Fender, Removing and Installing 13
2.4 Noise Insulation and Foam Pieces, Fender and Fender End Plate 16
2.5 Fender End Plate 17
2.6 Fender Brace, Removing and Installing 17

3 Plenum Chamber Cover 19
3.1 Overview - Plenum Chamber Cover 19
3.2 Plenum Chamber Cover, Removing and Installing 19

4 Noise Insulation 23
4.1 Tools 23
4.2 Noise Insulation, Gasoline Engine 23
4.3 Overview - Diesel Engine Noise Insulation 24

5 Underbody Trim Panels 25
5.1 Tools 25
5.2 Overview - Underbody Panel 25
5.3 Right Rear Underbody Trim Panel 26

6 Bulkhead 27
6.1 Tools 27
6.2 Materials 27
6.3 Overview - Bulkhead 27

7 Tunnel Brace 29
7.1 Tools 29
7.2 Overview - Tunnel Brace 29

8 Special Tools 30

55 - Hood, Lids 32

1 Hood 32
1.1 Tools 32
1.2 Overview - Hood 32
1.3 Hood, Removing and Installing 34
1.4 Hood Hinge, Removing and Installing 36
1.5 Insulation, Removing and Installing 38
1.6 Overview - Seals 40
1.7 Support Rod, Removing and Installing 41
1.8 Overview - Hood Locking and Unlocking Components 43
1.9 Latch, Removing and Installing 44
1.10 Cable, Disconnecting 46
1.11 Striker Pin, Removing and Installing 47
1.12 Overview - Hood Release Lever and Mounting Bracket 49
1.13 Release Lever, Removing and Installing 50
1.14 Hood, Adjusting 52

2 Rear Lid 55
2.1 Tools 55

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2.2 Overview - Rear Lid . . . 55
2.3 Rear Lid, Removing and Installing . . . 57
2.4 Overview - Gas-Filled Strut . . . 57
2.5 Gas-Filled Strut, Removing and Installing . . . 58
2.6 Gas-Filled Strut, Venting . . . 61
2.7 Overview - Rear Lid Hinge . . . 61
2.8 Rear Lid Hinge, Removing and Installing . . . 62
2.9 Hinge Cover, Removing and Installing . . . 64
2.10 Striker, Removing and Installing . . . 65
2.11 Rear Lid, Adjusting . . . 65
2.12 Rear Lid Handle Unlock Switch E234 , Removing and Installing . . . 67
2.13 Latch, Removing and Installing . . . 68
2.14 Rear Lid Seal . . . 69
2.15 Rear Lid Seal, Removing and Installing . . . 69
2.16 License Plate Holder . . . 72

3 Fuel Filler Door Unit . . . 73
3.1 Tools . . . 73
3.2 Overview - Fuel Filler Door Unit . . . 73
3.3 Fuel Filler Door Unit, Removing and Installing . . . 74
3.4 Fuel Filler Door Unlock Motor V155 , Removing and Installing . . . 76

4 Special Tools . . . 78

57 - Front Doors, Central Locking System . . . 80

1 Front Door . . . 80
1.1 Tools . . . 80
1.2 Overview - Door Hinges . . . 80
1.3 Door, Removing and Installing . . . 82
1.4 Installing after Replacing the A-Pillar . . . 85
1.5 Door Adjustment . . . 86

2 Door Components . . . 88
2.1 Tools . . . 88
2.2 Overview - Front Door . . . 88
2.3 Door Cover, Removing and Installing . . . 90
2.4 Door Strap, Removing and Installing . . . 92
2.5 Striker Pin, Removing and Installing . . . 94
2.6 Overview - Door Handle and Door Lock . . . 95
2.7 Lock Cylinder Cap, Removing and Installing . . . 97
2.8 Lock Cylinder, Removing and Installing . . . 98
2.9 Cap without Lock Cylinder, Removing and Installing . . . 101
2.10 Door Handle, Removing and Installing . . . 103
2.11 Door Lock, Removing and Installing . . . 106
2.12 Mounting Bracket, Removing and Installing . . . 109
2.13 Inner Window Shaft Seal, Removing and Installing . . . 112
2.14 Outer Window Shaft Seal, Removing and Installing . . . 114
2.15 Inner Door Seal, Removing and Installing . . . 116
2.16 Outer Door Seal, Removing and Installing . . . 119
2.17 Overview - Insulation . . . 121

3 Central Locking . . . 122
3.1 Component Location Overview - Central Locking Components . . . 122
3.2 Remote Control Keys, Adapting . . . 124
3.3 Overview - Remote Control Key (Foldable) Battery . . . 124
3.4 Remote Control Key Battery, Foldable, Removing and Installing . . . 125
3.5 Overview - Battery, Folding Key with Cap . . . 126
3.6 Battery, Removing and Installing, Folding Key with Cap . . . 127

4 Special Tools . . . 128

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58 - Rear Doors 130
1 Rear Door 130
1.1 Tools 130
1.2 Overview - Door Hinges 130
1.3 Door, Removing and Installing 132
1.4 Installing after Replacing B-Pillar 134
1.5 Door Adjustment 135
2 Door Components 137
2.1 Tools 137
2.2 Overview - Rear Door 137
2.3 Cover, Removing and Installing 139
2.4 Door Strap, Removing and Installing 141
2.5 Striker Pin, Removing and Installing 143
2.6 Overview - Door Handle and Door Lock 144
2.7 Cap, Removing and Installing 145
2.8 Door Handle, Removing and Installing 148
2.9 Door Lock, Removing and Installing 151
2.10 Mounting Bracket, Removing and Installing 154
2.11 Inner Window Shaft Seal, Removing and Installing 156
2.12 Outer Window Shaft Seal, Removing and Installing 158
2.13 Inner Door Seal, Removing and Installing 160
2.14 Outer Door Seal, Removing and Installing 163
2.15 Overview - Insulation 166
3 Special Tools 167

60 - Sunroof 169
1 Sliding/Tilting Sunroof with Glass Panel 169
1.1 Tools 169
1.2 Function 169
1.3 Overview 170
1.4 Sliding/Tilting Sunroof Glass Panel, Removing and Installing 171
1.5 Glass Panel Height Adjustment 172
1.6 Glass Panel, Checking Parallel Movement 174
1.7 Glass Panel, Adjusting Parallel Movement 174
1.8 Panel Seal, Replacing 175
1.9 Wind Deflector, Removing and Installing 175
1.10 Sun Shade, Removing and Installing 176
1.11 Sliding/Tilting Sunroof Motor, Removing and Installing 177
1.12 Sliding/Tilting Sunroof Motor, Adjusting Neutral Position 178
1.13 Sliding/Tilting Sunroof Motor, Adapting 178
1.14 Automatic Rotary Switch for Sliding/Tilting Sunroof, Removing 179
1.15 Assembly Unit, Removing and Installing 179
1.16 Water Drain Hoses, Cleaning 182
2 Special Tools 184

63 - Bumpers 185
1 Front Bumper Cover 185
1.1 Tools 185
1.2 Front Bumper Cover, Servicing 185
1.3 Parking Aid Bracket, Installing 185
1.4 Overview - Front Bumper Cover 189
1.5 Front Bumper Cover, Removing and Installing 190
1.6 Front Bumper Cover Attachments 192
1.7 Front License Plate Holder, Installing 193

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1.8 Overview - Front Bumper Cover Guides . . . 194
1.9 Overview - Front Bumper Carrier . . . 195
2 Rear Bumper Cover . . . 196
2.1 Tools . . . 196
2.2 Rear Bumper Cover, Servicing . . . 196
2.3 Parking Aid Bracket, Installing . . . 196
2.4 Overview - Rear Bumper Cover . . . 200
2.5 Rear Bumper Cover, Removing and Installing . . . 201
2.6 Overview - Rear Bumper Cover Guides . . . 204
2.7 Overview - Rear Bumper Carrier . . . 205
2.8 Overview - Trailer Hitch . . . 205
3 Special Tools . . . 207

64 - Glass, Window Regulators . . . 209
1 Flush Bonded Windows . . . 209
1.1 Tools . . . 209
1.2 Materials . . . 209
1.3 Windshield, Servicing . . . 210
1.4 Overview - Windshield . . . 210
1.5 Windshield, Removing . . . 211
1.6 Windshield, Installing . . . 213
1.7 Overview - Rear Window . . . 213
1.8 Undamaged Rear Window, Removing . . . 214
1.9 Damaged Rear Window, Removing . . . 215
1.10 Rear Window, Installing . . . 216
1.11 Undamaged Window, Preparing for Glazing . . . 217
1.12 New Window Without Pre-Coating, Preparing for Glazing . . . 217
1.13 Body Flange, Preparing for Glazing . . . 218
1.14 Installation Instructions . . . 219
1.15 Minimum Curing Time . . . 219
1.16 Paint Damage, Repairing . . . 219
1.17 Adhesive Sealant, Removing from Window . . . 219
2 Front Door Window . . . 221
2.1 Tools . . . 221
2.2 Overview - Front Door Window . . . 221
2.3 Door Window, Removing and Installing . . . 222
2.4 Window Regulator Motor, Removing and Installing . . . 228
2.5 Window Regulator, Removing and Installing . . . 234
2.6 Window Guide, Removing and Installing . . . 236
3 Rear Door Window . . . 240
3.1 Tools . . . 240
3.2 Overview - Rear Door Window . . . 240
3.3 Door Window, Removing and Installing . . . 242
3.4 Window Regulator Motor, Removing and Installing . . . 246
3.5 Window Regulator, Removing and Installing . . . 251
3.6 Window Guide, Removing and Installing . . . 253
3.7 Fixed Door Window, Removing and Installing . . . 255
4 Special Tools . . . 258

66 - Exterior Equipment . . . 260
1 Wheel Housing Liner . . . 260
1.1 Tools . . . 260
1.2 Overview - Front Wheel Housing Liner . . . 260
1.3 Front Wheel Housing Liner, Removing and Installing . . . 261
1.4 Overview - Rear Wheel Housing Liner . . . 264

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1.5 Rear Wheel Housing Liner, Removing and Installing . . . 265
2 Exterior Rearview Mirror . . . 267
2.1 Tools . . . 267
2.2 Overview - Manual Exterior Mirror . . . 267
2.3 Overview - Exterior Rearview Mirror, Power Exterior Mirror without Exterior Rearview Mirror Turn Signal . . . 269
2.4 Overview - Exterior Rearview Mirror, Power Exterior Mirror with Exterior Rearview Mirror Turn Signal . . . 270
2.5 Mirror Glass, Removing and Installing . . . 271
2.6 Trim, Removing and Installing, without Exterior Rearview Mirror Turn Signal . . . 272
2.7 Trim with Exterior Rearview Mirror Turn Signal, Removing and Installing . . . 274
2.8 Mirror Housing without Exterior Rearview Mirror Turn Signal, Removing and Installing . . . 276
2.9 Mirror Housing with Exterior Rearview Mirror Turn Signal, Removing and Installing . . . 277
2.10 Adjusting Unit with Exterior Rearview Mirror Motor, Removing and Installing . . . 279
2.11 Assembly Part, Removing and Installing . . . 281
2.12 Manual Exterior Rearview Mirror, Removing and Installing . . . 282
2.13 Power Exterior Rearview Mirror, Removing and Installing . . . 286
3 Radiator Grille . . . 291
3.1 Tools . . . 291
3.2 Radiator Grille, Removing and Installing . . . 291
3.3 Emblem, Removing and Installing . . . 294
4 Rear Spoiler . . . 298
4.1 Rear Spoiler, Removing and Installing . . . 298
5 Trim Moldings and Trim . . . 303
5.1 Drip Rail . . . 303
5.2 Overview - Sill Panel Cover . . . 307
5.3 Overview - B-Pillar Trim . . . 308
5.4 B-Pillar Trim, Removing and Installing . . . 309
5.5 Rocker Panel Extension . . . 311
6 Name Badges . . . 315
6.1 Tools . . . 315
6.2 Assembly Instructions for Name Badges and Emblems . . . 315
6.3 Rear Lid Name Badge Dimensions . . . 315
6.4 Name Badge on Fender, Dimension . . . 317
7 Special Tools . . . 319
8 Revision History . . . 321

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50 – Body Front

1 Lock Carrier

(Edition 06.2014)

⇒ “1.1 Tools”, page 1

⇒ “1.2 Lock Carrier - Attachments”, page 1

⇒ “1.3 Service Position”, page 4

⇒ “1.4 Lock Carrier with Attachments, Removing and Installing”, page 7

⇒ “1.5 Pressure Hoses, Removing and Installing”, page 10

1.1 Tools

Special tools and workshop equipment required

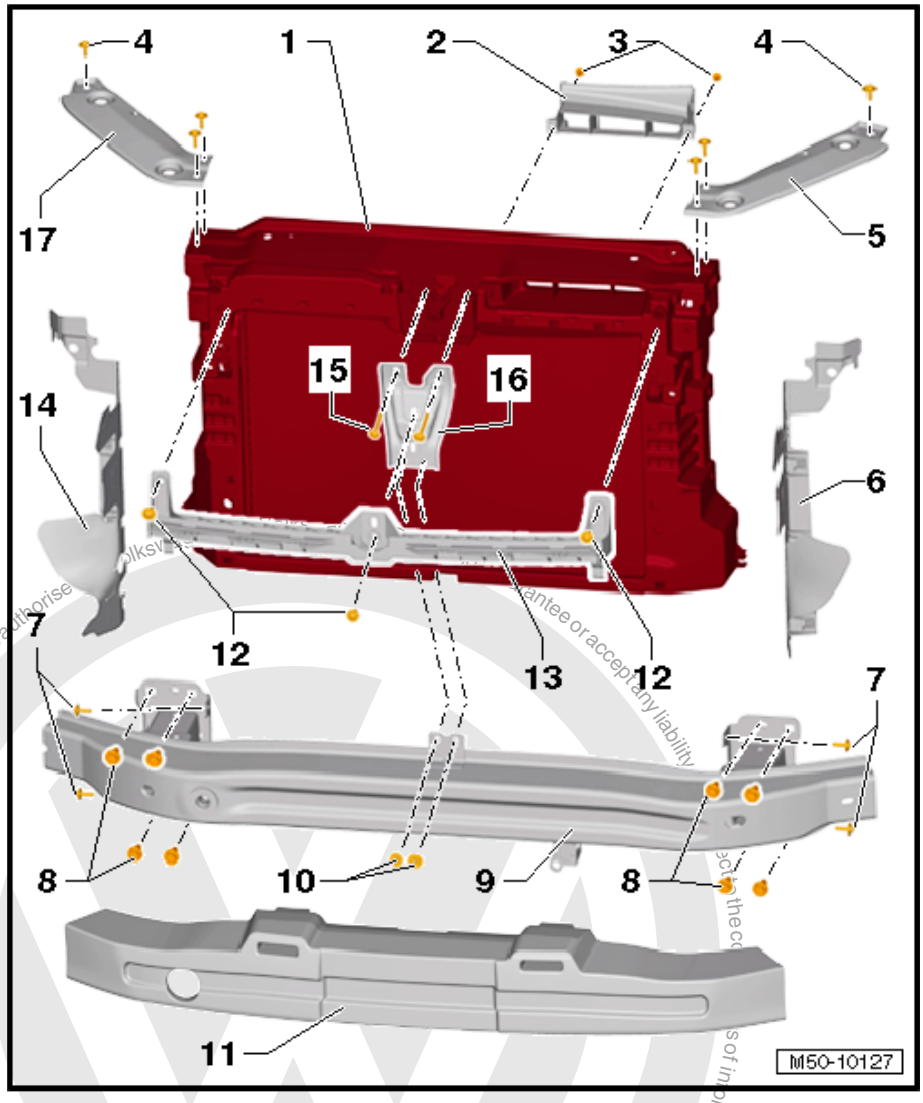
- Guide Pins - T10093-
- Torque Wrench 1331 5-50Nm - VAG1331-
- Torque Wrench 1332 40-200Nm - VAG1332-

1.2 Lock Carrier - Attachments

⇒ “1.2.1 Overview”, page 1

1.2.1 Overview

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1 - Lock Carrier with Attachments

- ❑ Removing and installing. Refer to ⇒ “1.4 Lock Carrier with Attachments, Removing and Installing”, page 7 .
- ❑ Service position. Refer to ⇒ “1.3 Service Position”, page 4 .

2 - Air Duct

3 - Screw

- ❑ 2 Nm
- ❑ Quantity: 2

4 - Bolt

- ❑ 8 Nm
- ❑ Quantity: 3 on each side

5 - Retaining Bracket

- ❑ Left

6 - Air Duct

- ❑ Left

7 - Bolt

- ❑ 8 Nm
- ❑ Quantity: 2 on each side
- ❑ For attaching the bumper carrier -9- to the lock carrier -1-

8 - Bolt

- ❑ 60 Nm
- ❑ Quantity: 4 on each side

9 - Bumper Carrier

10 - Nut

- ❑ 8 Nm
- ❑ Quantity: 2
- ❑ For attaching the lock carrier support -15- to the bumper carrier -9-

11 - Foam Piece

- ❑ Installed depending on the version

12 - Bolt

- ❑ 8 Nm
- ❑ Quantity: 3

13 - Center Guide

- ❑ Guide for the front bumper cover

14 - Air Duct

- ❑ Right

15 - Bolt

- ❑ 12 Nm
- ❑ Quantity: 2
- ❑ For attaching the lock carrier support to the lock carrier and latch

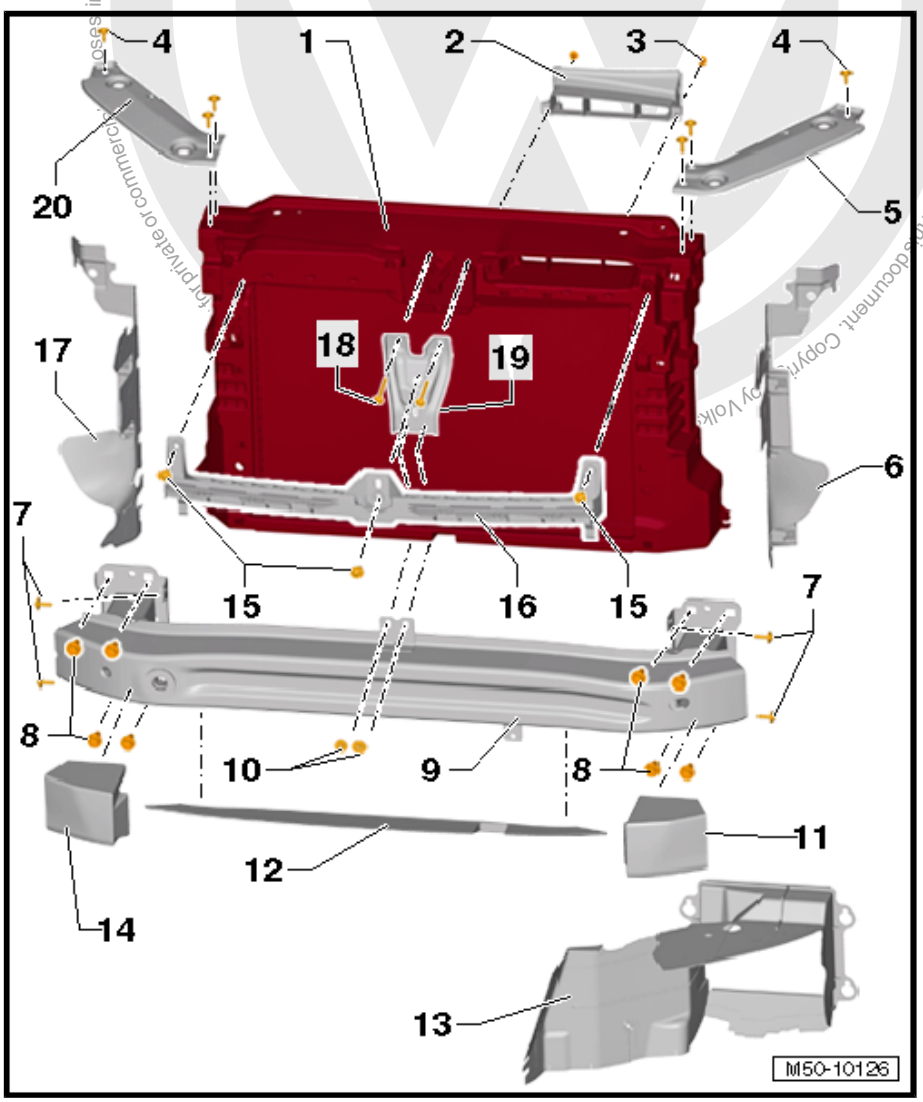
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16 - Support

17 - Retaining Bracket

- ❑ Right

1.2.2 Overview - Rest of World



1 - Lock Carrier with Attachments

- ❑ Removing and installing. Refer to ⇒ “1.4 Lock Carrier with Attachments, Removing and Installing”, page 7 .
- ❑ Service position. Refer to ⇒ “1.3 Service Position”, page 4 .

2 - Air Duct

3 - Screw

- ❑ 2 Nm
- ❑ Quantity: 2

4 - Bolt

- ❑ 8 Nm
- ❑ Quantity: 3 on each side

5 - Retaining Bracket

- ❑ Left

6 - Air Duct

- ❑ Left

7 - Bolt

- ❑ 8 Nm
- ❑ Quantity: 2 on each side
- ❑ For attaching the bumper carrier -9- to the lock carrier -1-

8 - Bolt

- ❑ 60 Nm
- ❑ Quantity: 4 on each side

9 - Bumper Carrier

10 - Nut

- ❑ 8 Nm
- ❑ Quantity: 2
- ❑ For attaching the lock carrier support -15- to the bumper carrier -9-

11 - Foam Piece

- ❑ Installed depending on the version

12 - Foam Piece

- ❑ Installed depending on the version

13 - Air Duct

- ❑ Installed depending on engine and market

14 - Foam Piece

- ❑ Installed depending on the version

15 - Bolt

- ❑ 8 Nm
- ❑ Quantity: 3

16 - Center Guide

- ❑ Guide for the front bumper cover

17 - Air Duct

- ❑ Right

18 - Bolt

- ❑ 12 Nm
- ❑ Quantity: 2
- ❑ For attaching the lock carrier support to the lock carrier and latch

19 - Support

20 - Retaining Bracket

- ❑ Right

1.3 Service Position

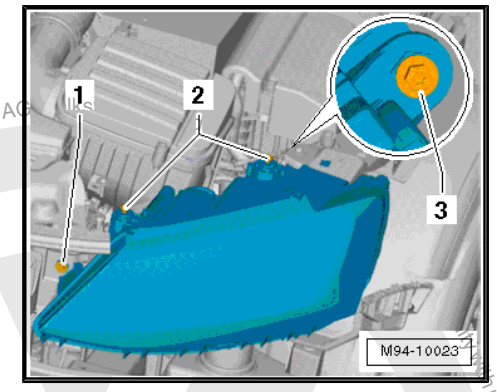
⇒ “1.3.1 Moving into Service Position”, page 4

⇒ “1.3.2 Service Position, Resetting”, page 6

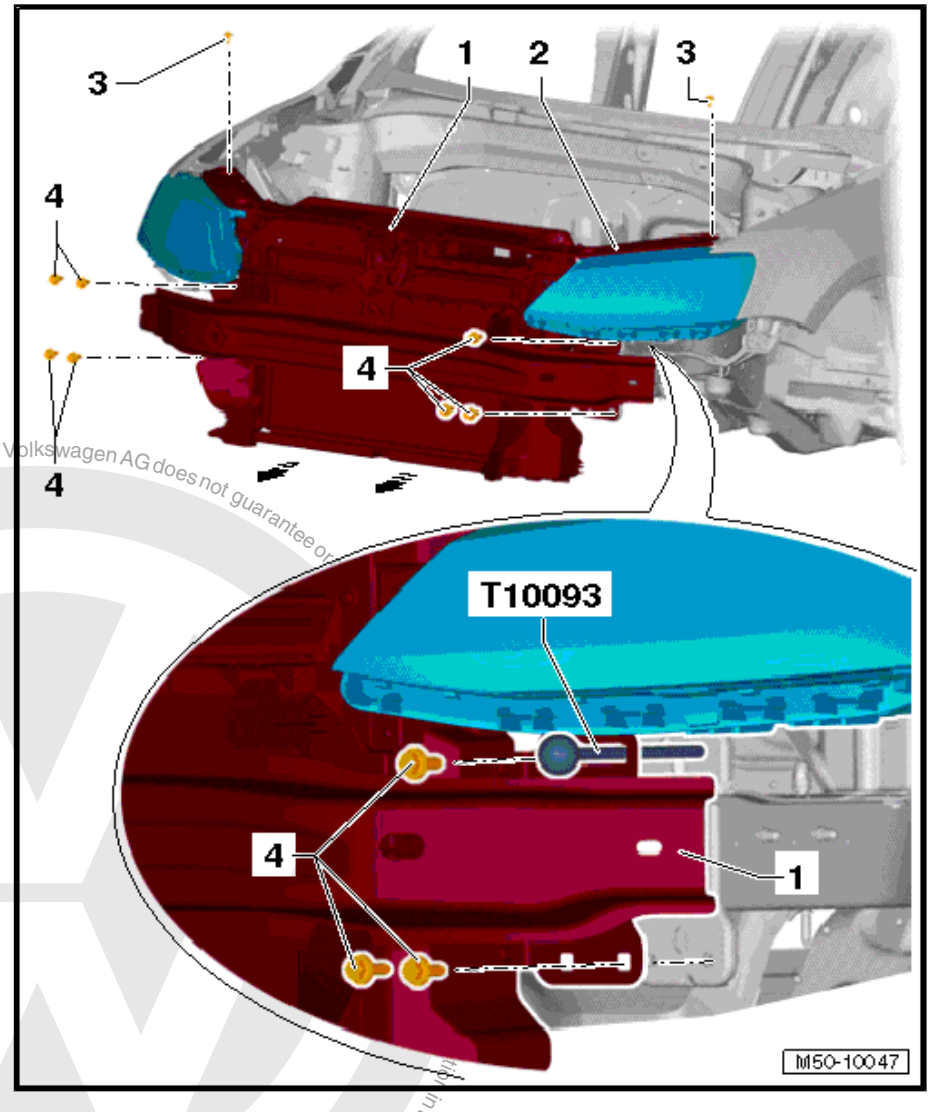
1.3.1 Moving into Service Position

Perform the following:

– Remove the left and right bolts -3- on the back of the headlamp.



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– Remove the front bumper cover. Refer to ⇒ “1.5 Front Bumper Cover, Removing and Installing”, page 190 .
– Disconnect the cable from the cable coupling. Refer to ⇒ “1.10 Cable, Disconnecting”, page 46 .
– If the vehicle has a charge air cooler, disconnect the pressure hoses. Refer to ⇒ “1.5 Pressure Hoses, Removing and Installing”, page 10 .
– Remove only one bolt -4- from the left and right longitudinal members.
– Install the Guide Pins - T10093- into the holes in the left and right longitudinal member where the bolts were.
– Remove the remaining bolts -4- in the left and right longitudinal members.

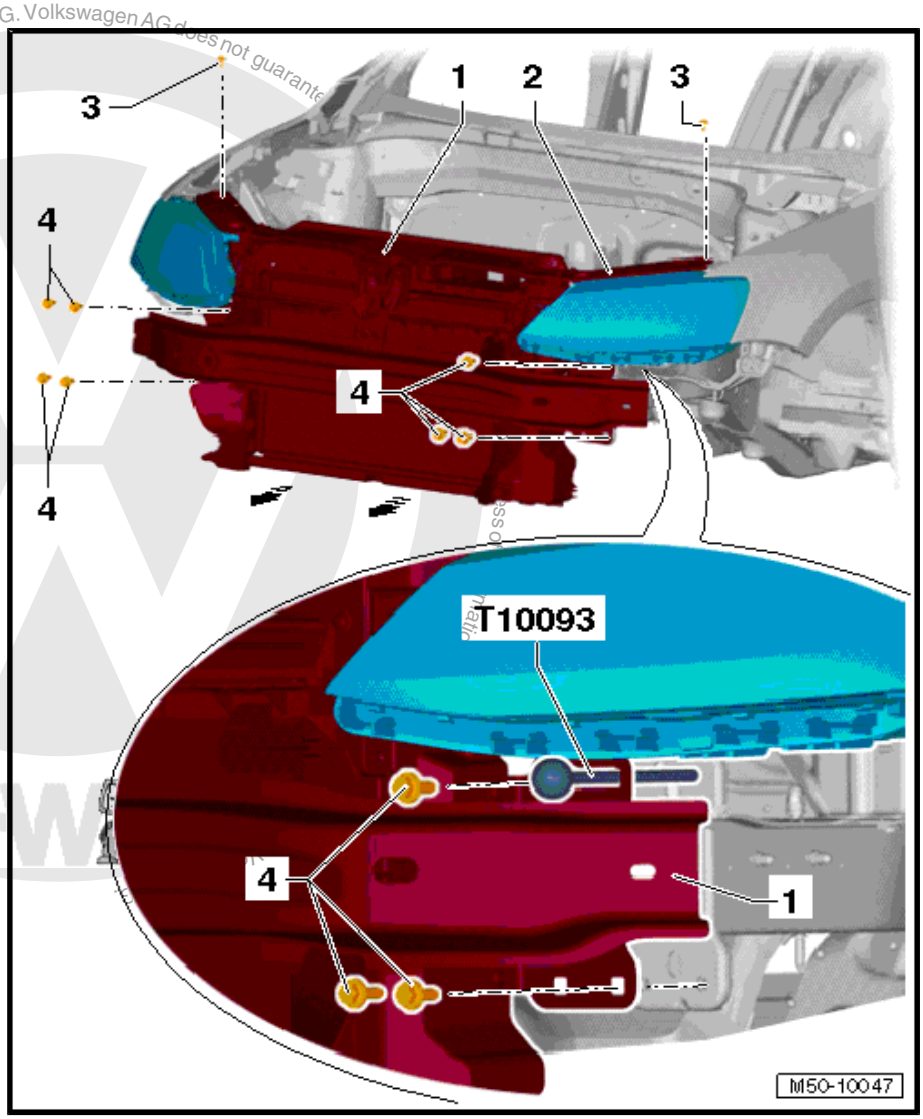
Have a second technician hold the hood and support rod.

– Remover the upper left and right bolts -3- from the retaining brackets -2-.
– Pull the lock carrier and attachments -1- forward approximately 10 cm on the Guide Pins - T10093- -arrows-. Be careful of

the wires on the lock carrier. Disconnect the connectors if necessary.

1.3.2 Service Position, Resetting

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Perform the following:

– Push the lock carrier with the attachments -1- onto the Guide Pins - T10093- on the longitudinal members.

– Install the bolts -3 and 4-.

– Align the lock carrier with the attachments -1- on the longitudinal members and between the fenders. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions; Body Front .

Bolt tightening specification -3-: 8 Nm

Bolt tightening specification -4-: 60 Nm

Install in reverse order of removal.

Note

- *Make sure that the charge air cooler pressure hoses are re-installed correctly. Refer to* ⇒ *"1.5 Pressure Hoses, Removing and Installing", page 10* .
- *The hoses and lines must not be pinched.*

1.4 Lock Carrier with Attachments, Removing and Installing

⇒ "1.4.1 Removing", page 7

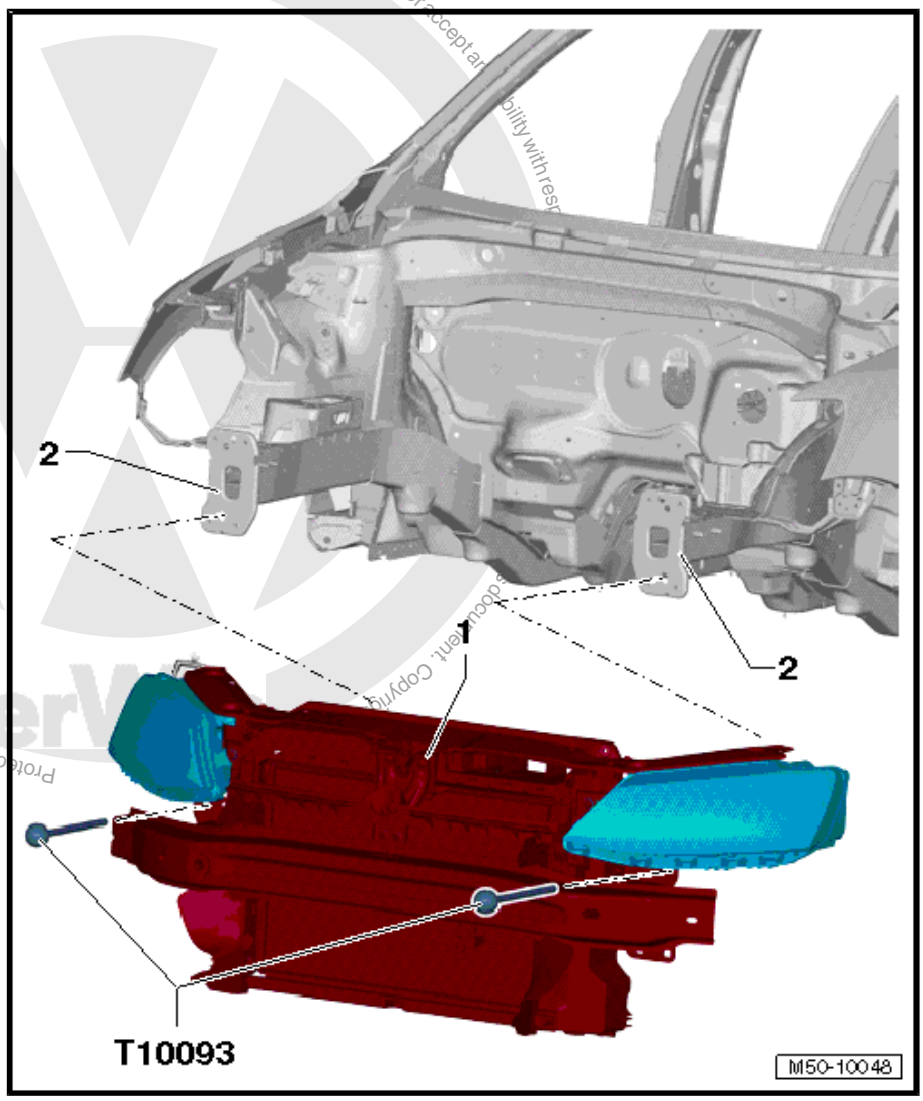
⇒ "1.4.2 Installing", page 8

1.4.1 Removing

Note

- *The lock carrier is a safety-related component. For this reason it cannot be serviced.*
- *Replace the lock carrier if it is damaged.*

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Perform the following:

– Move the lock carrier into its service position. Refer to ⇒ “1.3.1 Moving into Service Position”, page 4 .

– Disconnect any connectors.

– Drain the coolant and disconnect the coolant lines. Refer to ⇒ Rep. Gr. 19 ; Coolant System/Coolant; Coolant, Draining and Filling or ⇒ Rep. Gr. 19 ; Cooling System Components; Coolant, Draining and Filling .

– Disconnect the refrigerant lines from the condenser. Refer to ⇒ Heating, Ventilation and Air Conditioning; Rep. Gr. 87 ; Refrigerant Circuit Service Work, Performed Only by Specially Trained Personnel in Suitable Workshops .

– Support the hood and remove the support rod from the hood.

– Together with a second technician, remove the Guide Rods - T10093- on the left and right longitudinal members -2- and remove the lock carrier -1-.

WARNING

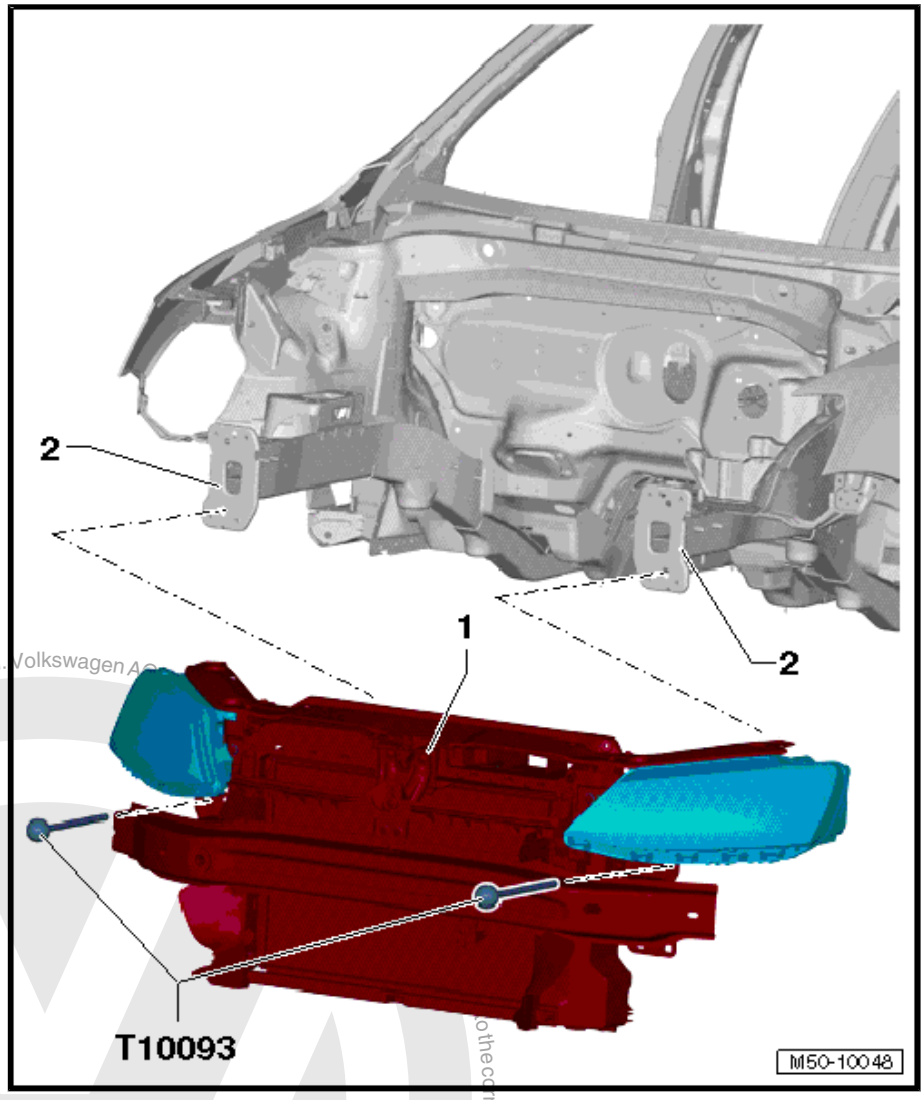
Do not start the engine whenever the A/C lines and/or coolant lines are disconnected.

Note

- *Never hang the condenser and the hydraulic fluid cooler on the lines.*
- *Never bend the condenser lines or the hydraulic fluid lines.*

1.4.2 Installing

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Perform the following:

– Attach the lock carrier -1- to the longitudinal members -2-.
– Install the Guide Pins - T10093- on the left and right sides.
– Move the lock carrier out of its service position. Refer to ⇒ “1.3.2 Service Position, Resetting”, page 6 .

Install in reverse order of removal.

– Align the lock carrier with the attachments -1- on the longitudinal members and between the fenders. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions; Body Front .

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1.5 Pressure Hoses, Removing and Installing

⇒ “1.5.1 Pressure Hose and Coupling”, page 10

⇒ “1.5.2 Pressure Hose with Threaded Connection and Clamp”, page 10

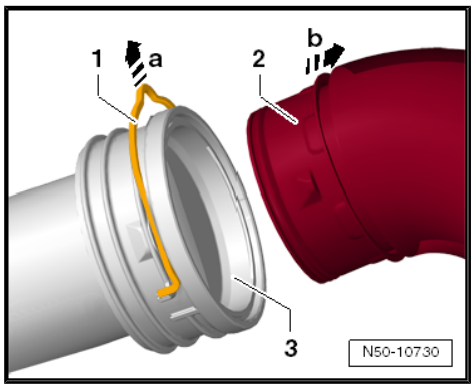
1.5.1 Pressure Hose and Coupling

Unlocking the pressure hose

Perform the following:

– Unlock the clip -1- in the direction of -arrow a-.

– Pull the pressure hose -2- out of the coupling -3- in the direction of the -arrow b-.



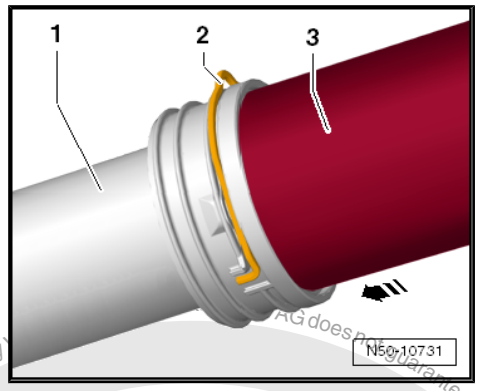
Locking the pressure hose

Perform the following:

- Make sure the clamp -2- is in the upper position.

– Insert the pressure hose -3- into the coupling -1- in the direction of the -arrow-.

– Push the clamp -2- all the way down.



Note

- *If it is not possible to push the clamp all the way through, this means the pressure hose is not mounted far enough in the coupling.*
- *Push the pressure hose again and lock the clamp.*

- Pull on the coupling to make sure it is secure.

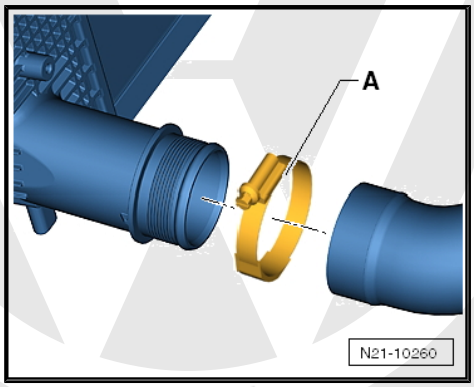
1.5.2 Pressure Hose with Threaded Connection and Clamp

Removing the Pressure Hose

Perform the following:

– Loosen the screw on the clamp -A-.

– Remove the pressure hose and clamp -A- from the threaded connection.



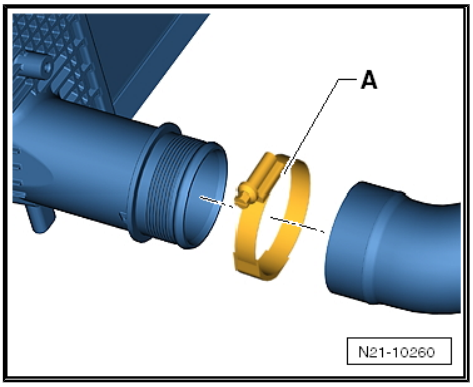
Installing the Pressure Hose

Perform the following:

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– Push the pressure hose and clamp -A- all the way onto the threaded connection.

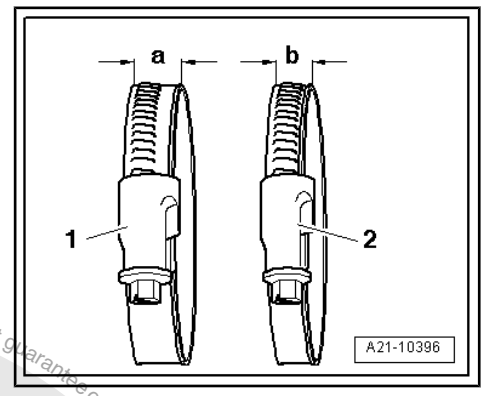
– Tighten the screw on the clamp -A-.



Caution

The screw on the clamp -A- must be tightened to the exact tightening specification. Refer to ⇒ Fig. ""Clamp Tightening Specification"" , page 11 . The pressure hose could slip off the threaded connection while the vehicle is being driven if the screw is too loose or it was over-tightened.

Clamp Tightening Specification



1 - Hose clamp -a- = 13 mm wide: 5.5 Nm

2 - Clamp -b- = 9 mm wide: 3 Nm

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2 Fender

⇒ “2.1 Tools”, page 12

⇒ “2.2 Overview - Front Fender”, page 12

⇒ “2.3 Front Fender, Removing and Installing”, page 13

⇒ “2.4 Noise Insulation and Foam Pieces, Fender and Fender End Plate”, page 16

⇒ “2.5 Fender End Plate”, page 17

⇒ “2.6 Fender Brace, Removing and Installing”, page 17

2.1 Tools

Special tools and workshop equipment required

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

2.2 Overview - Front Fender

Note

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

1 - Fender

- Removing and installing. Refer to ⇒ “2.3 Front Fender, Removing and Installing”, page 13 .

2 - Bolt

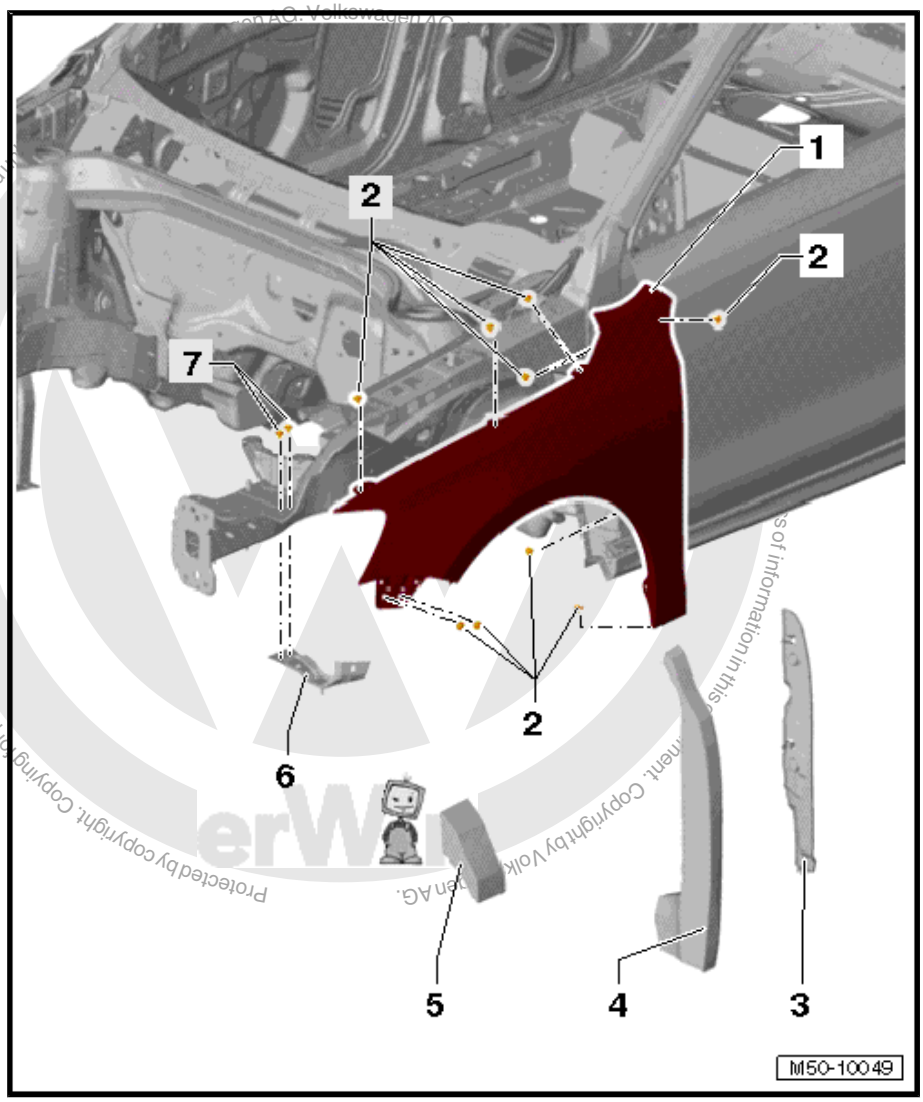
- Tightening specification: 6 Nm
- A-pillar, quantity: 1
- Wheel housing, quantity: 2
- Side sill, quantity: 1
- Fender brace, quantity: 2
- Fender connecting piece, quantity: 3

3 - Fender End Plate

- Removing and installing. Refer to ⇒ “2.5 Fender End Plate”, page 17 .

4 - Noise Insulation, Fender End Plate

- Installed in front of the fender end plate. Refer to ⇒ “2.4 Noise Insulation and Foam Pieces, Fender and Fender End Plate”, page 16 .
- Not installed in all model versions



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5 - Foam Piece

- ❑ Inserted between the fender and the upper wheel housing longitudinal member. Refer to ⇒ “2.4 Noise Insulation and Foam Pieces, Fender and Fender End Plate”, page 16 .

6 - Fender Brace

- ❑ Removing and installing. Refer to ⇒ “2.6 Fender Brace, Removing and Installing”, page 17 .

7 - Bolt

- ❑ Tightening specification: 6 Nm
- ❑ Quantity: 2

2.3 Front Fender, Removing and Installing

⇒ “2.3.1 Removing”, page 13

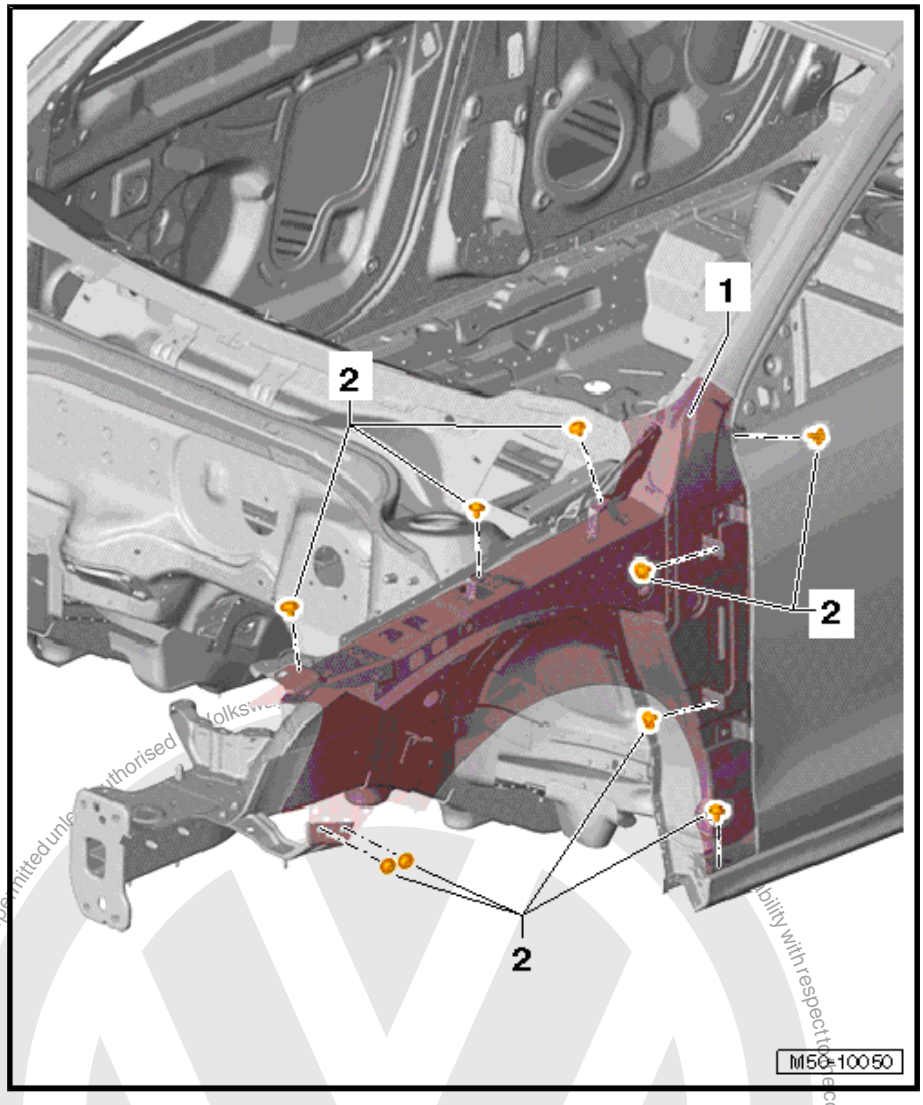
⇒ “2.3.2 Installing”, page 15

2.3.1 Removing

Note

The following describes the removal and installation of the left fender. Removing and installing the right fender is identical.

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Perform the following:

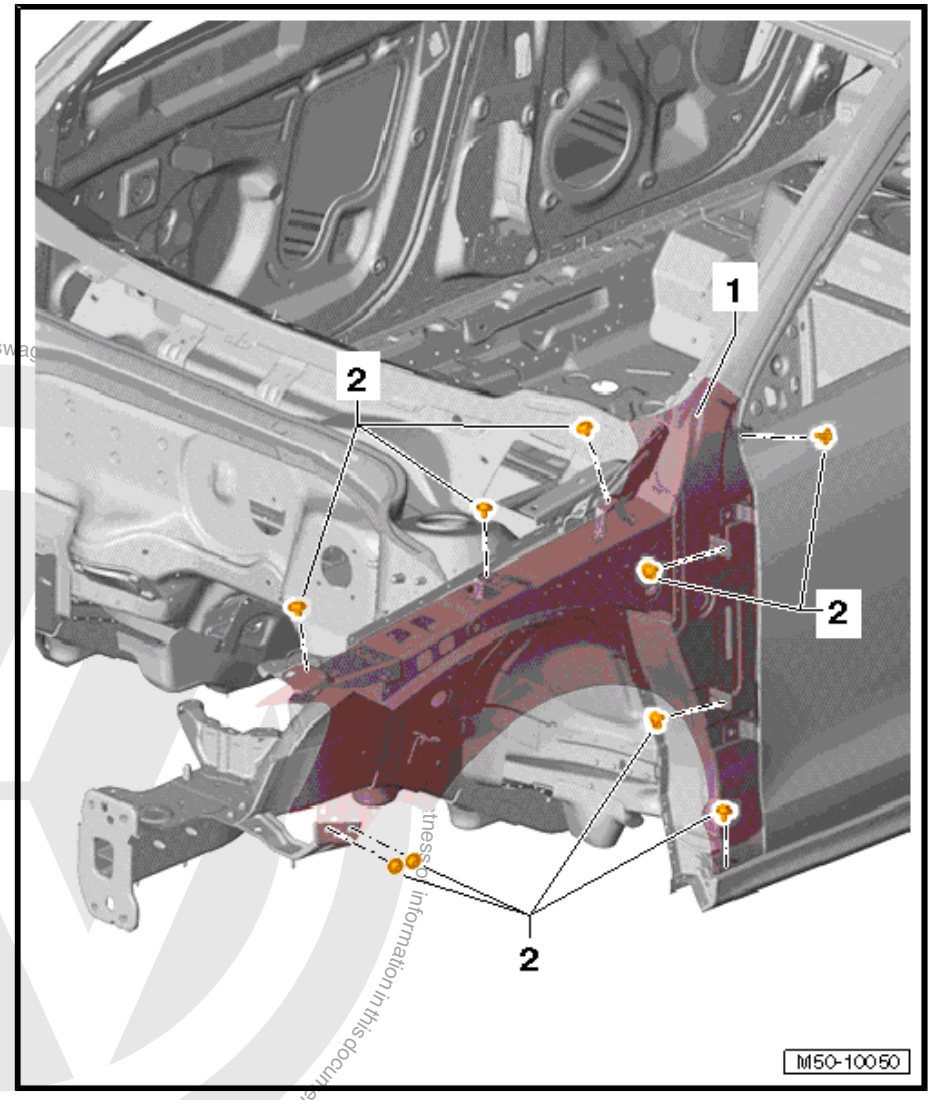
- Remove the front wheel housing liner. Refer to ⇒ “1.3 Front Wheel Housing Liner, Removing and Installing”, page 261 .
- Remove the foam piece between the fender and the longitudinal member -item 5- ⇒ Item 5 (page 13) .
- Remove the fender end plate noise insulation, if equipped, from the wheel housing -item 4- ⇒ Item 4 (page 12) .
- Remove the fender end plate. Refer to ⇒ “2.5 Fender End Plate”, page 17 .
- Remove the front bumper cover. Refer to ⇒ “1.5 Front Bumper Cover, Removing and Installing”, page 190 .
- Remove the guide from the front bumper cover. Refer to ⇒ “1.8 Overview - Front Bumper Cover Guides”, page 194 .
- If equipped, remove the drip rail. Refer to ⇒ “5.1 Drip Rail”, page 303 .
- Remove the bolts -2-.
- Carefully remove the fender -1-.

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2.3.2 Installing

Note

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



Perform the following:

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

– Noise insulation, foam pieces and tightening specifications -2-. Refer to ⇒ “2.2 Overview - Front Fender”, page 12 .

– Note the parallel alignment and . Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions; Body Front .

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2.4 Noise Insulation and Foam Pieces, Fender and Fender End Plate

Note

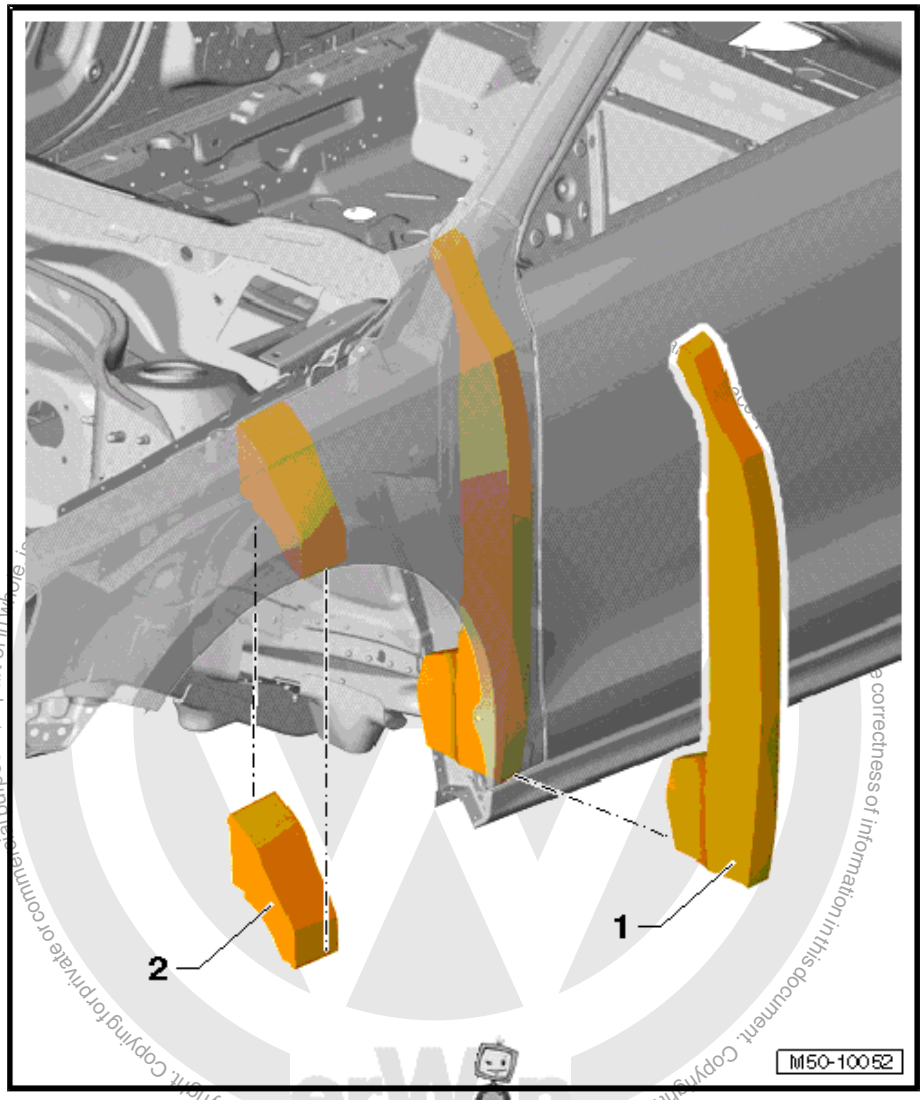
- *The illustration shows the left side. The right side is identical.*
- *There may be different noise insulation and foam pieces installed.*

1 - Noise Insulation, Fender End Plate

- ❑ Installed in front of the fender end plate
- ❑ Not installed in all model versions

2 - Foam Piece

- ❑ Inserted between the fender and the upper wheel housing longitudinal member



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2.5 Fender End Plate

Note

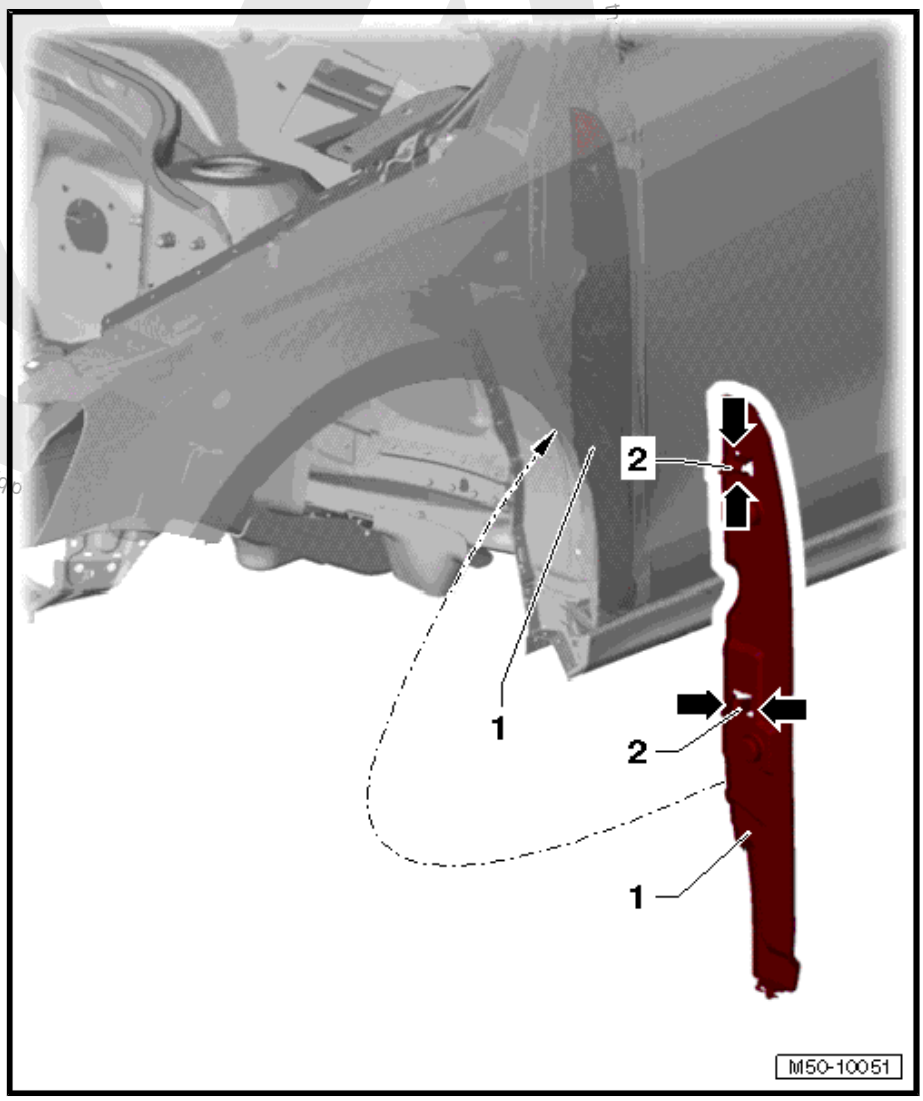
The illustration shows the left side. The right side is identical.

1 - Fender End Plate

- ❑ Installed in front of the fillet plate on the fender
- ❑ Make sure the guide tab fits into the hole in the side sill when installed.

2 - Hooks

- ❑ Quantity: 2
- ❑ Push together to remove from the fender end plate -arrows-



2.6 Fender Brace, Removing and Installing

⇒ “2.6.1 Removing”, page 17

⇒ “2.6.2 Installing”, page 18

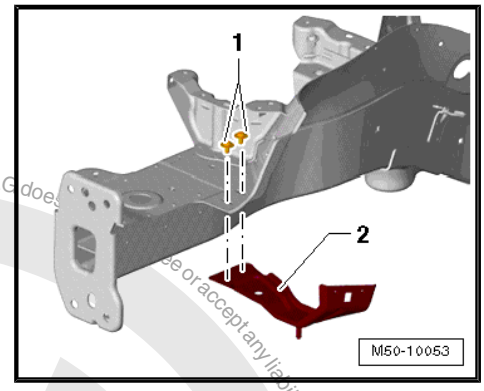
2.6.1 Removing

Note

The following describes the removal and installation of the left fender brace. Removing and installing the right fender brace is identical.

Perform the following:

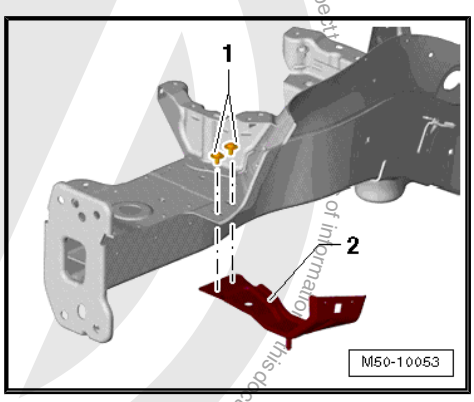
- Remove the front bumper cover. Refer to ⇒ “1.5.1 Removing”, page 190 .
- Remove the guide from the front bumper cover. Refer to ⇒ “1.8 Overview - Front Bumper Cover Guides”, page 194 .
- Remove the bolts that attach the front fender to the fender brace -2-. Refer to ⇒ “2.2 Overview - Front Fender”, page 12 .
- Remove the bolts -1- and the fender brace -2-.



2.6.2 Installing

Perform the following:

- Install the fender brace -2-.
- Install the bolt that attaches the front fender to the fender brace -2-. Refer to ⇒ “2.2 Overview - Front Fender”, page 12 .
- Install the guide profile to the front bumper cover. Refer to ⇒ “1.8 Overview - Front Bumper Cover Guides”, page 194 .
- Install the front bumper cover. Refer to ⇒ “1.5.1 Removing”, page 190 .
- The fender brace is aligned with the fender to the hood and bumper. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions; Body Front.



Bolt tightening specification -2-: 6 Nm

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3 Plenum Chamber Cover

⇒ “3.1 Overview - Plenum Chamber Cover”, page 19

⇒ “3.2 Plenum Chamber Cover, Removing and Installing”, page 19

3.1 Overview - Plenum Chamber Cover

1 - Right Plenum Chamber Cover

- ❑ Removing and installing. Refer to ⇒ “3.2 Plenum Chamber Cover, Removing and Installing”, page 19

2 - Left Plenum Chamber Cover

- ❑ Removing and installing. Refer to ⇒ “3.2 Plenum Chamber Cover, Removing and Installing”, page 19 .

3 - Molded Foam Part

- ❑ Left

4 - Seal

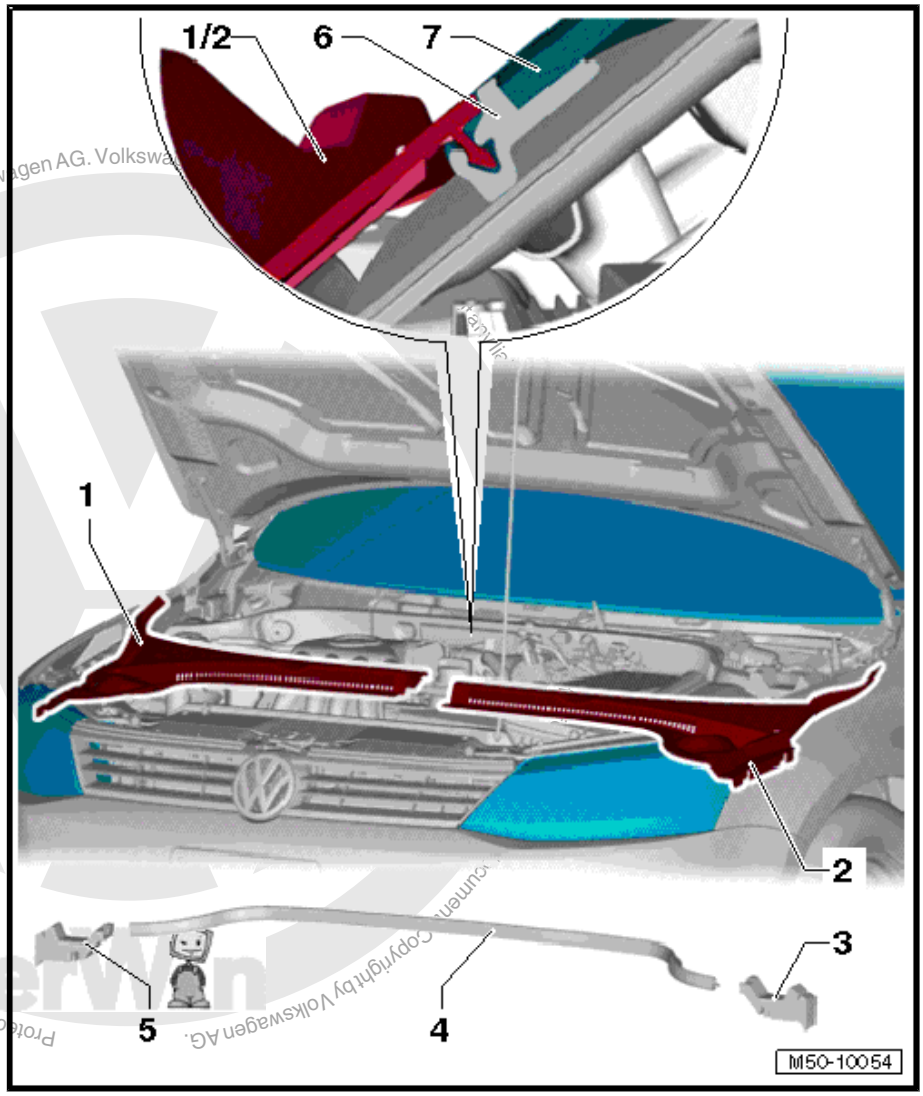
5 - Molded Foam Part

- ❑ Right

6 - Binding Profile

- ❑ Windshield component

7 - Windshield



3.2 Plenum Chamber Cover, Removing and Installing

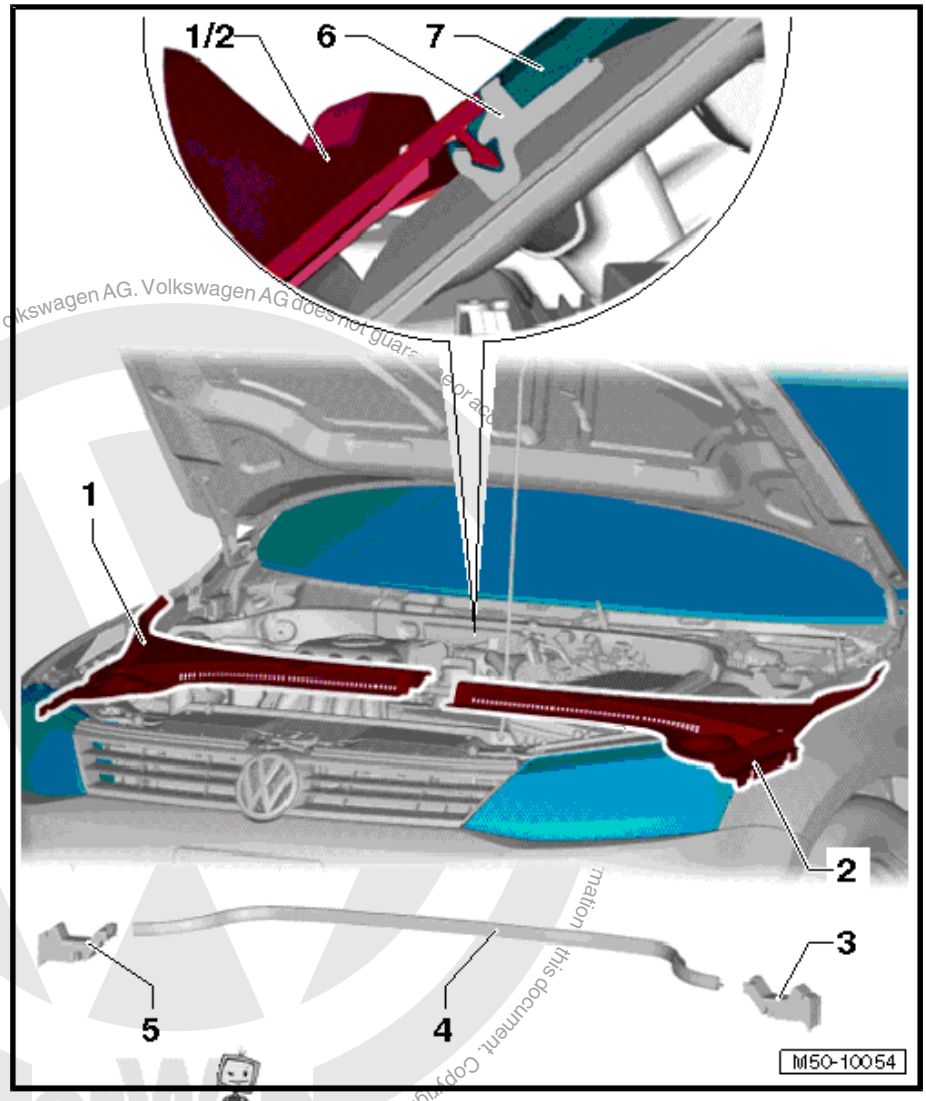
⇒ “3.2.1 Removing”, page 19

⇒ “3.2.2 Installing”, page 21

3.2.1 Removing

Note

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



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Perform the following:

– 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 entire length of the plenum chamber covers -1 and 2-.

Caution

The windshield -7- could break. Do not use a screwdriver, a wedge or any other prying tool to pry off the plenum chamber covers -1 and 2-. This could damage the windshield -7-, which could later crack.

– Lift the plenum chamber covers -1 and 2- at the edge of the windshield -7- by hand.

– Starting at the edge of the windshield -7- and working up, remove the plenum chamber covers -1 and 2- from the retainer -6-.

– Remove the left plenum chamber cover -2- forward and from the vehicle. Be careful of the horn between the windshield and fender when removing it.

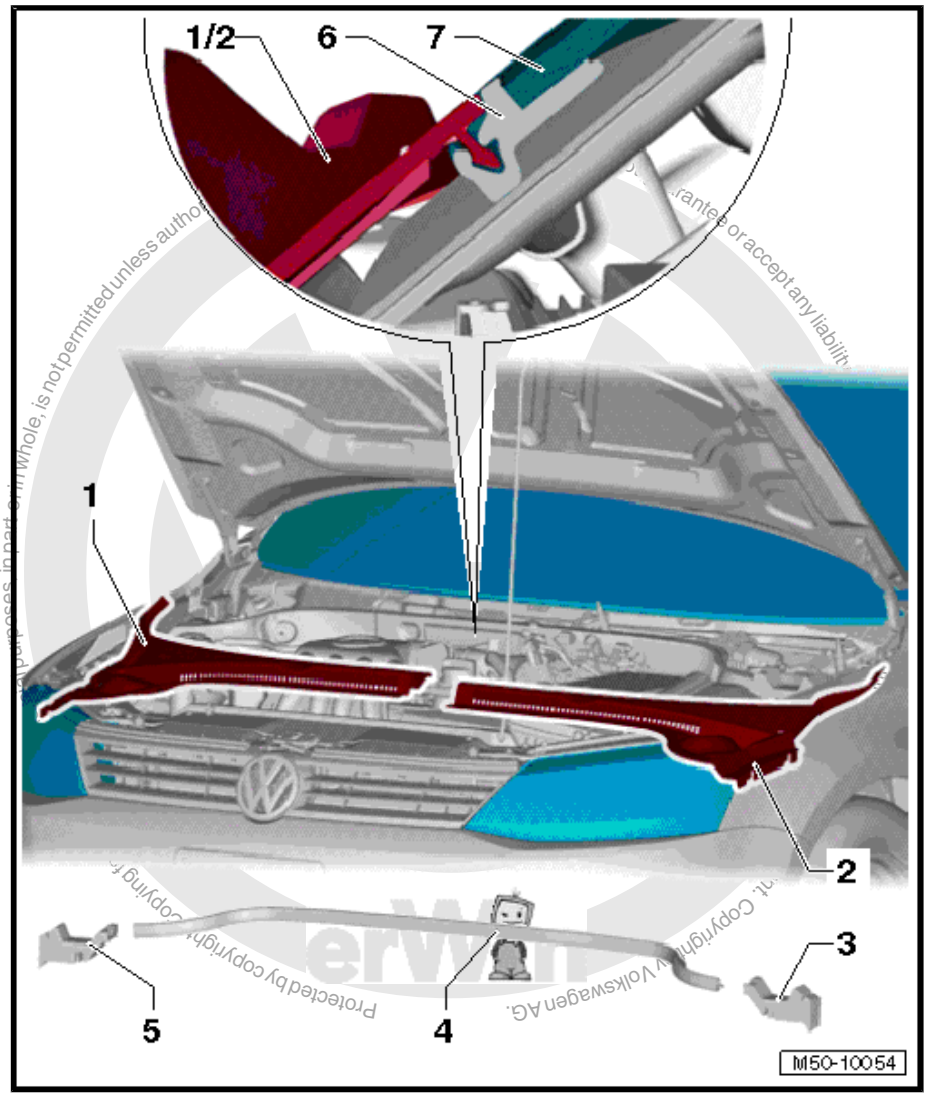
– Remove the bracket that holds the lines for the spray nozzles from the right plenum chamber cover -1-.
– Remove the left plenum chamber cover -1- forward and from the vehicle. Be careful of the flange all the way around between the windshield and fender when removing it.

3.2.2 Installing

Caution

The windshield -7- could break.

Using a hammer to install the plenum chamber covers -1 and 2- into the retainer -6- on the windshield -7- can cause the windshield to crack.



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Note

- *In new windshields, an insert is installed in the retainer. Remove this insert before installing the plenum chamber cover.*
- *Press the plenum chamber cover into the retainer gently by hand. Do not strike it or press on it with a tool under any circumstances.*

Perform the following:

– Spray the retainer -6- with soapy water to make it easier to install the plenum chamber covers -1 and 2-.

– Insert the flange on the right plenum chamber cover -1- between the windshield and the fender.

– Make sure the side clip on the right plenum chamber cover -1- fits correctly into the top of the crossmember plate.

– Position the right plenum chamber cover -1- on the retainer -6- and then, starting in the middle, press it into the retainer -6- using light pressure.

– Remove the bracket that holds the lines for the spray nozzles, from the right plenum chamber cover -1-.

– Insert the flange on the left plenum chamber cover -2- between the windshield and the fender.

– Make sure the clip on the left plenum chamber cover -2- fits correctly into the top of the crossmember plate.

– Position the left plenum chamber cover -2- on the retainer -6- and then, starting in the middle, press it into the retainer -6- using light pressure.

– Install the seal -3-.

– Install the wiper arms. Refer to ⇒ Electrical Equipment; Rep. Gr. 92 ; Windshield Wiper System; Windshield Wiper Arms, Removing and Installing .

4 Noise Insulation

⇒ “4.1 Tools”, page 23

⇒ “4.2 Noise Insulation, Gasoline Engine”, page 23

⇒ “4.3 Overview - Diesel Engine Noise Insulation”, page 24

4.1 Tools

Special tools and workshop equipment required

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

4.2 Noise Insulation, Gasoline Engine

Note

Depending on the engine version, slight deviations must be considered when removing and installing.

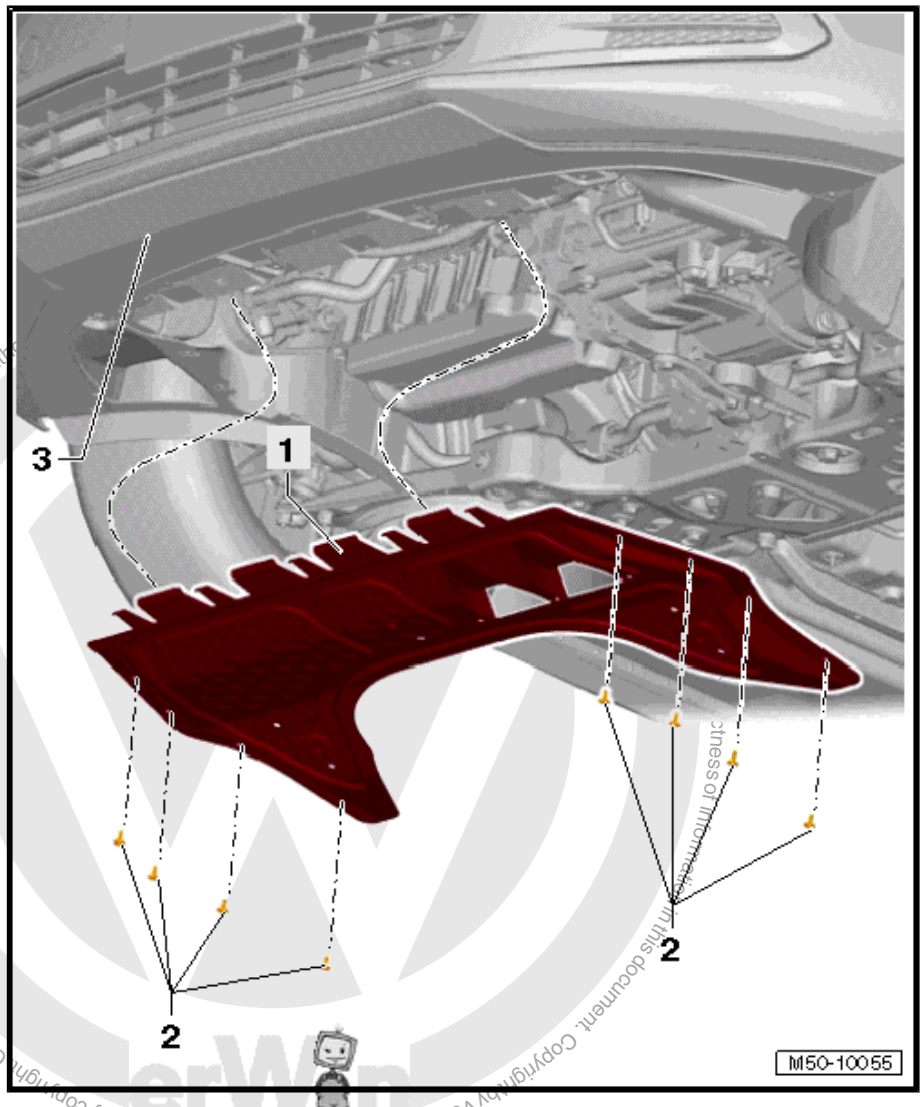
1 - Noise Insulation

- Removing:
  - Remove the bolts -2-.
  - Remove the noise insulation from the front bumper cover -3-.

2 - Screw

- Tightening specification: 2 Nm
- Quantity: 4 on each side

3 - Front Bumper Cover



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4.3 Overview - Diesel Engine Noise Insulation

Note

Depending on the engine version, slight deviations must be considered when removing and installing.

1 - Noise Insulation

- ❑ Removing:
- – Remove the bolts -2 and 3-.
- – Remove the noise insulation from the front bumper cover -4- toward the rear.

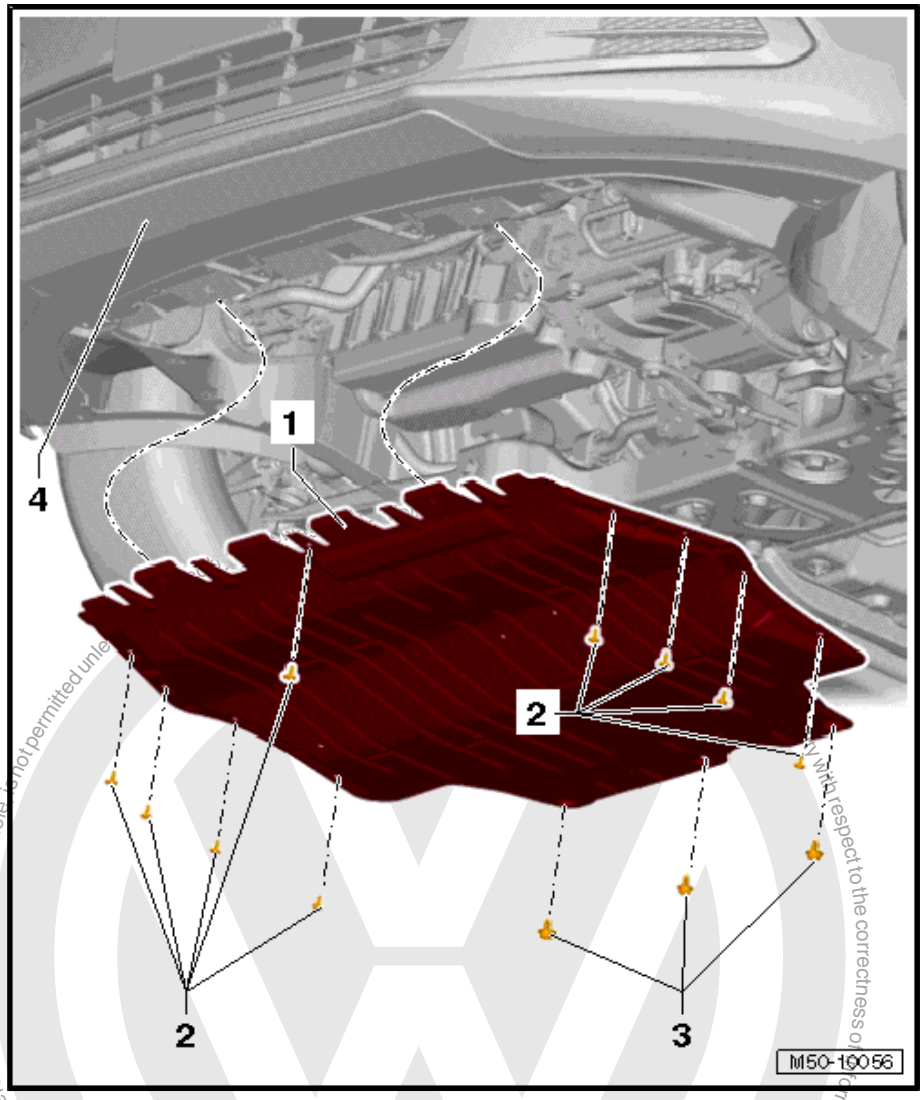
2 - Screw

- ❑ Tightening specification: 2 Nm
- ❑ Four for each side and one for the front

3 - Bolt

- ❑ Tightening specification: 6 Nm
- ❑ Quantity: 3

4 - Front Bumper Cover



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5 Underbody Trim Panels

⇒ “5.1 Tools”, page 25

⇒ “5.2 Overview - Underbody Panel”, page 25

⇒ “5.3 Right Rear Underbody Trim Panel”, page 26

5.1 Tools

Special tools and workshop equipment required

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

5.2 Overview - Underbody Panel

Note

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

1 - Underbody Trim Panel

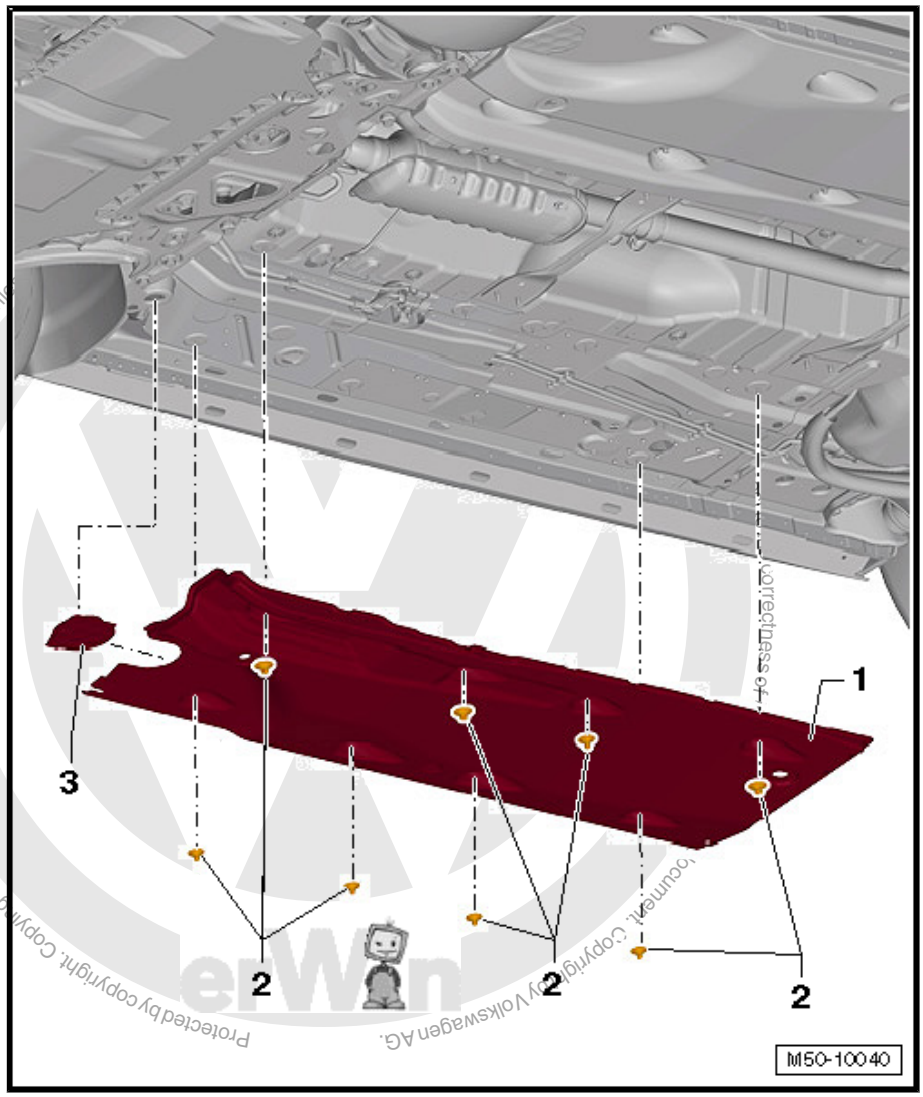
- ❑ Removing:
  - – Remove the nuts -2-.
  - – Pull the underbody panel toward the rear off the cover -3- and remove it.

2 - Nut

- ❑ Tightening specification: 2 Nm
- ❑ Quantity: 8
- ❑ Held in place by the tabs on the underbody trim panel

3 - Cover

- ❑ Removing:
  - – Remove the cover from the mount.



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5.3 Right Rear Underbody Trim Panel

Note

Depending on model version, the right rear underbody trim panel has minor differences.

1 - Right Rear Underbody Trim Panel

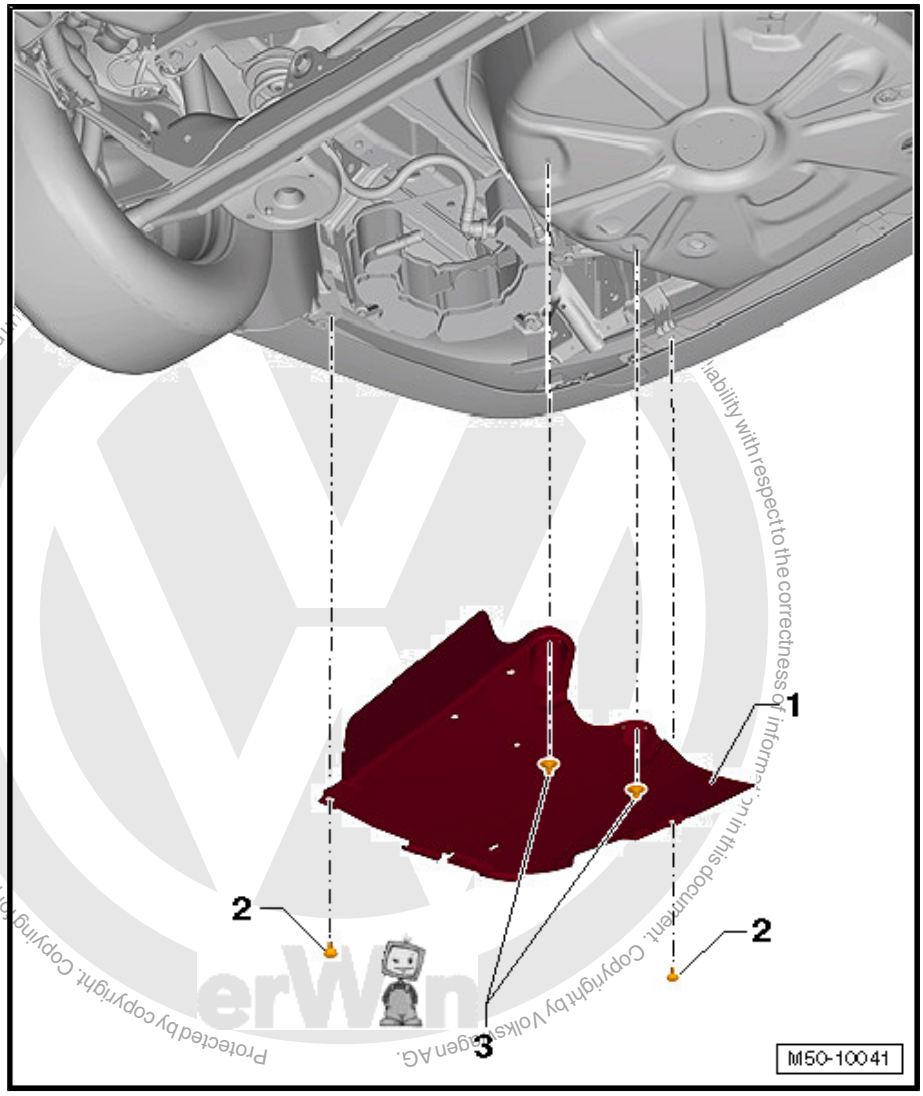
- ❑ There are different versions. Refer to the Parts Catalog for the allocation.
- ❑ Removing:
- – Remove the bolts -2-.
- – Remove the nuts -3- and the right rear underbody trim panel.

2 - Screw

- ❑ Tightening specification: 2.7 Nm
- ❑ Quantity: 2 or 3 depending on the version of the right rear underbody trim panel

3 - Nut

- ❑ Tightening specification: 2 Nm
- ❑ Quantity: 2
- ❑ Held in place by the tabs on the right rear underbody trim panel



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6 Bulkhead

⇒ “6.1 Tools”, page 27

⇒ “6.2 Materials”, page 27

⇒ “6.3 Overview - Bulkhead”, page 27

6.1 Tools

Special tools and workshop equipment required

- Torque Wrench 1331 5-50Nm - VAG1331-
- Cartridge Heater - VAG1939-
- Cartridge Gun - VAG1628-

6.2 Materials

♦ One-Part Window Adhesive	DH 009 100 A2 [1) 2)]
♦ Activator	D 181 801 A1
♦ Glass Primer/Paint Primer	D 009 200 02
♦ Cleaning Solution	D 009 401 04
♦ Primer Applicator	D 009 500 25

1) Heat according to manufacturer's instructions using Cartridge Heater - VAG1939 A- .

2) Note the minimum curing time. Refer to
⇒ “1.15 Minimum Curing Time”, page 219 .

6.3 Overview - Bulkhead

Note

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

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1 - Bulkhead

- ❑ Removing:
- – Cut through the bead of adhesive -4- after removing the screws -3-.

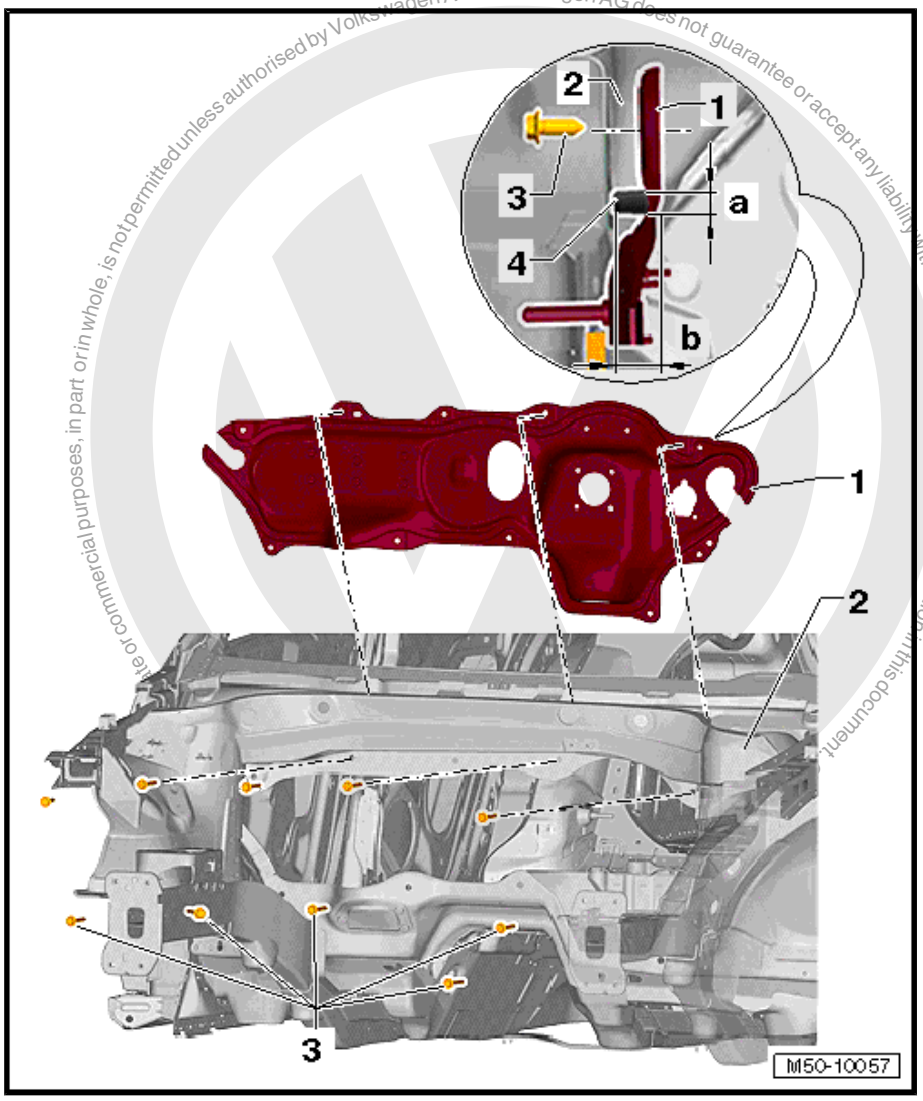
2 - Body Flange

3 - PUR Adhesive Sealant

- ❑ Bead diameter: width -a- = 8 mm, height -B- = 10 mm
- ❑ Minimum Curing Time. Refer to ⇒ “1.15 Minimum Curing Time”, page 219 .

4 - Bolt

- ❑ Tightening specification: 25 Nm
- ❑ Quantity: 10



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7 Tunnel Brace

⇒ “7.1 Tools”, page 29

⇒ “7.2 Overview - Tunnel Brace”, page 29

7.1 Tools

Special tools and workshop equipment required

- Torque Wrench 1331 5-50Nm - VAG1331-

7.2 Overview - Tunnel Brace

Note

The -arrow- points in the direction of travel.

1 - Front Tunnel Brace

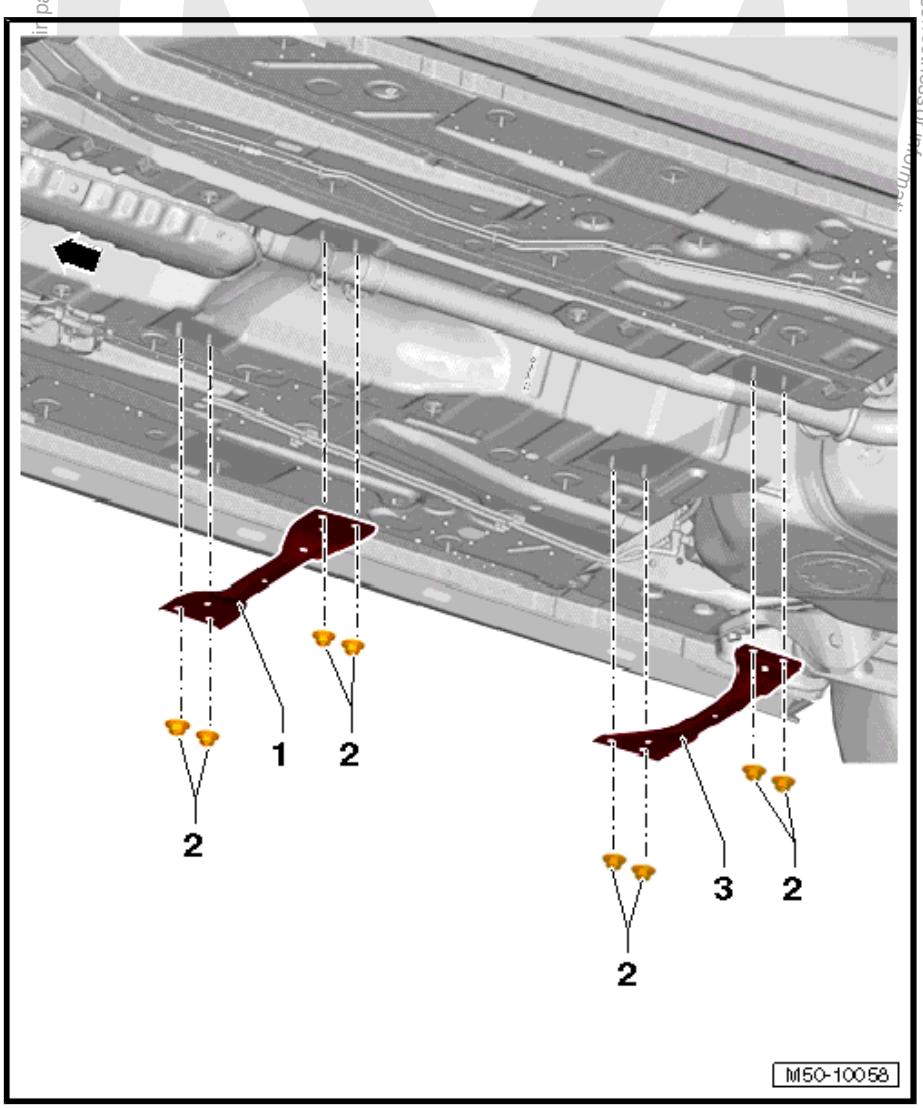
- ❑ Removing:
  - – Remove the nuts -2- (quantity: 2 on each side).

2 - Hex Nut

- ❑ Tightening specification: 20 Nm
- ❑ Quantity: 4 per tunnel bridge

3 - Rear Tunnel Brace

- ❑ Removing:
  - – Remove the nuts -2- (quantity: 2 on each side).

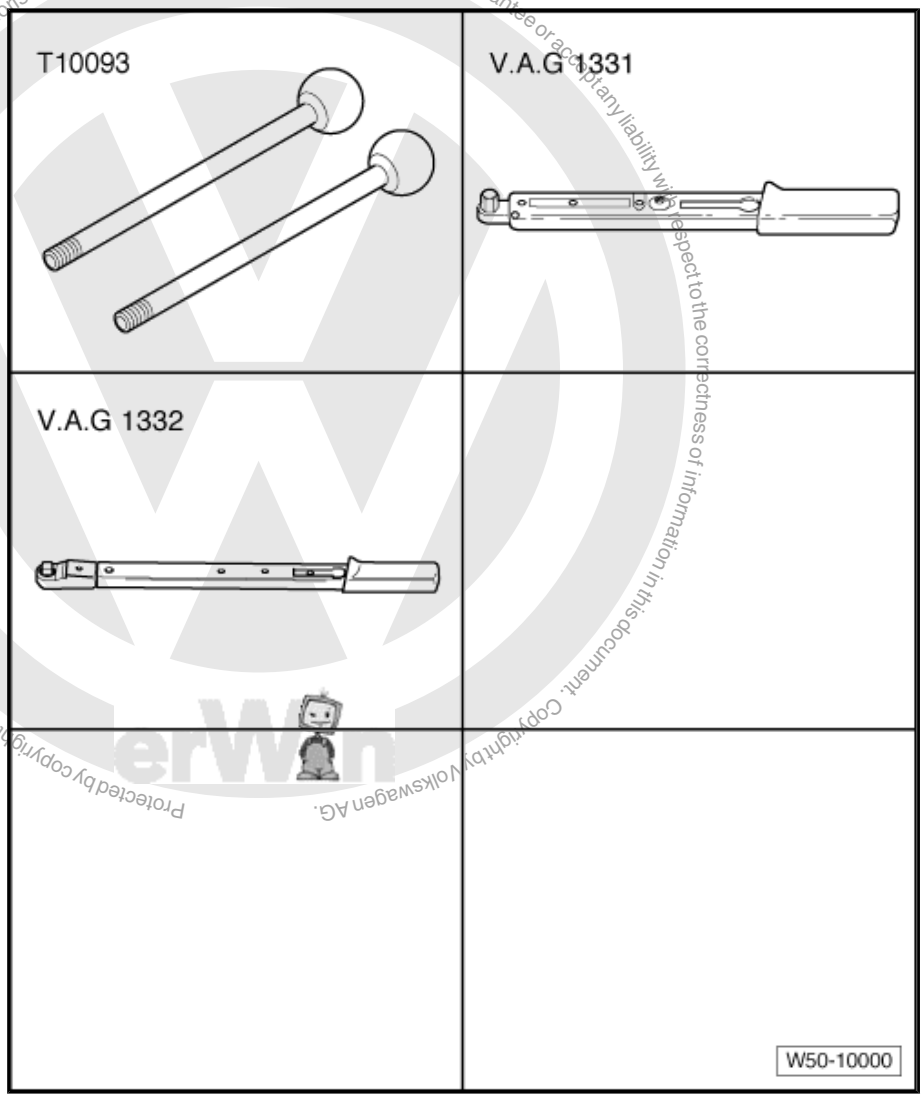


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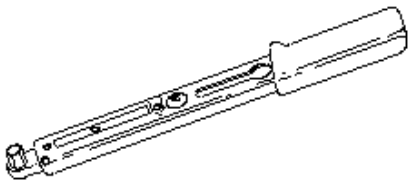
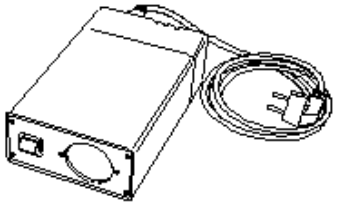
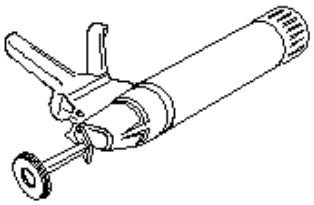
8 Special Tools

Special tools and workshop equipment required

- Guide Pins - T10093-
- Torque Wrench 1331 5-50Nm - VAG1331-
- Cartridge Gun - VAG1628-
- Cartridge Heater - VAG1939-



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55 – Hood, Lids

1 Hood

⇒ “1.1 Tools”, page 32
⇒ “1.2 Overview - Hood”, page 32
⇒ “1.3 Hood, Removing and Installing”, page 34
⇒ “1.4 Hood Hinge, Removing and Installing”, page 36
⇒ “1.5 Insulation, Removing and Installing”, page 38
⇒ “1.6 Overview - Seals”, page 40
⇒ “1.7 Support Rod, Removing and Installing”, page 41
⇒ “1.8 Overview - Hood Locking and Unlocking Components”, page 43
⇒ “1.10 Cable, Disconnecting”, page 46
⇒ “1.10 Cable, Disconnecting”, page 46
⇒ “1.11 Striker Pin, Removing and Installing”, page 47
⇒ “1.12 Overview - Hood Release Lever and Mounting Bracket”, page 49
⇒ “1.13 Release Lever, Removing and Installing”, page 50
⇒ “1.14 Hood, Adjusting”, page 52

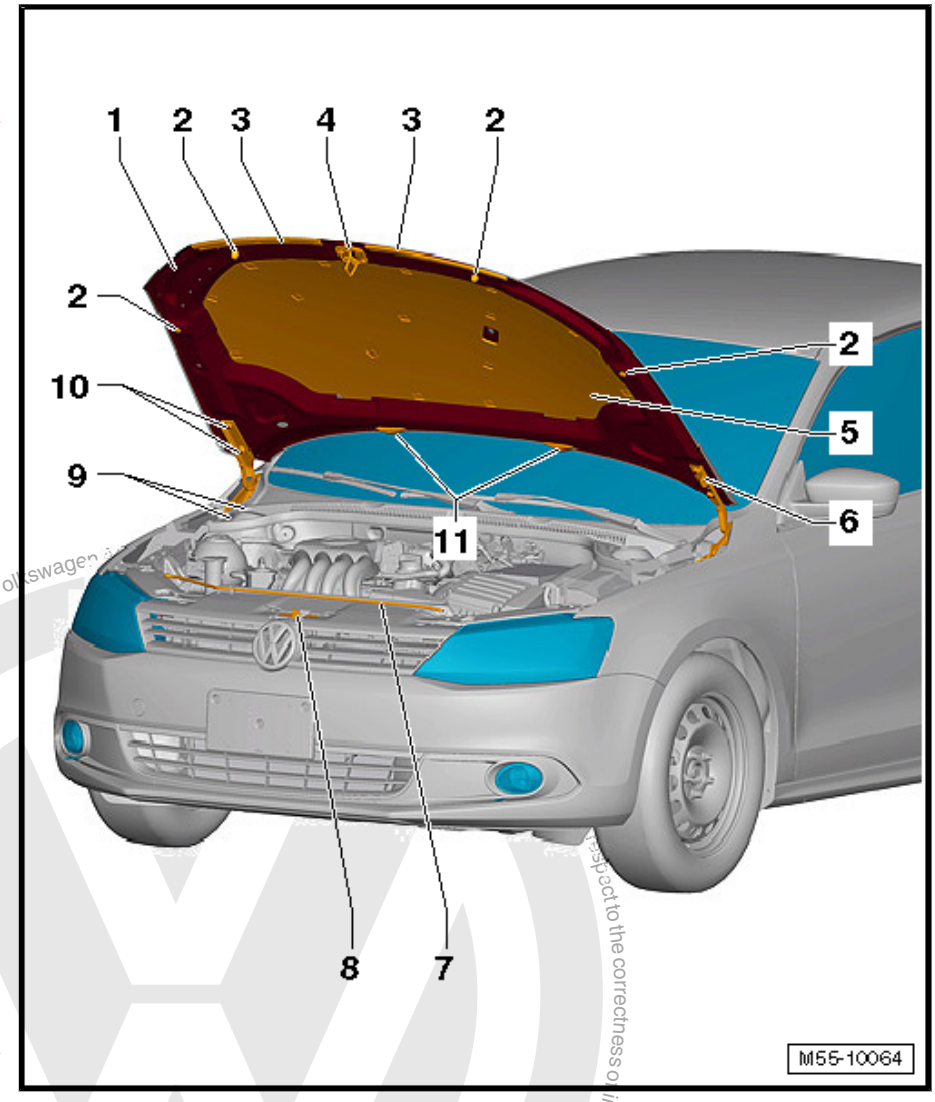
1.1 Tools

Special tools and workshop equipment required

- Torque Wrench 1331 5-50Nm - VAG1331-
- Pry Lever - 80 - 200-

1.2 Overview - Hood

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1 - Hood

- ❑ Removing and installing. Refer to ⇒ “1.3 Hood, Removing and Installing”, page 34 .
- ❑ Refer to ⇒ “1.14 Hood, Adjusting”, page 52 for adjusting.

2 - Adjusting Buffer

3 - Center Seal

- ❑ Left and right

4 - Striker Pin

- ❑ Removing and installing. Refer to ⇒ “1.11 Striker Pin, Removing and Installing”, page 47 .
- ❑ Refer to ⇒ “1.14.2 Striker Pin, Adjusting”, page 54 for adjusting.

5 - Insulation

- ❑ Removing and installing. Refer to ⇒ “1.5 Insulation, Removing and Installing”, page 38 .

6 - Hinge

- ❑ Removing and installing. Refer to ⇒ “1.4 Hood Hinge, Removing and Installing”, page 36 .
- ❑ Refer to ⇒ “1.14 Hood, Adjusting”, page 52 for adjusting.

7 - Support Rod

- ❑ Removing and installing. Refer to ⇒ “1.7 Support Rod, Removing and Installing”, page 41 .

8 - Latch

- ❑ Removing and installing. Refer to ⇒ “1.9 Latch, Removing and Installing”, page 44 .
- ❑ Refer to ⇒ “1.14.1 Latch, Adjusting”, page 53 for adjusting.

9 - Bolt

- ❑ Tightening specification: 22 Nm.
- ❑ Quantity: 2 on each side

10 - Nut

- ❑ Tightening specification: 22 Nm.
- ❑ Quantity: 2 on each side

11 - Spray Nozzles

- ❑ Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 92 ; Windshield Washer System; Spray Nozzles, Removing and Installing .

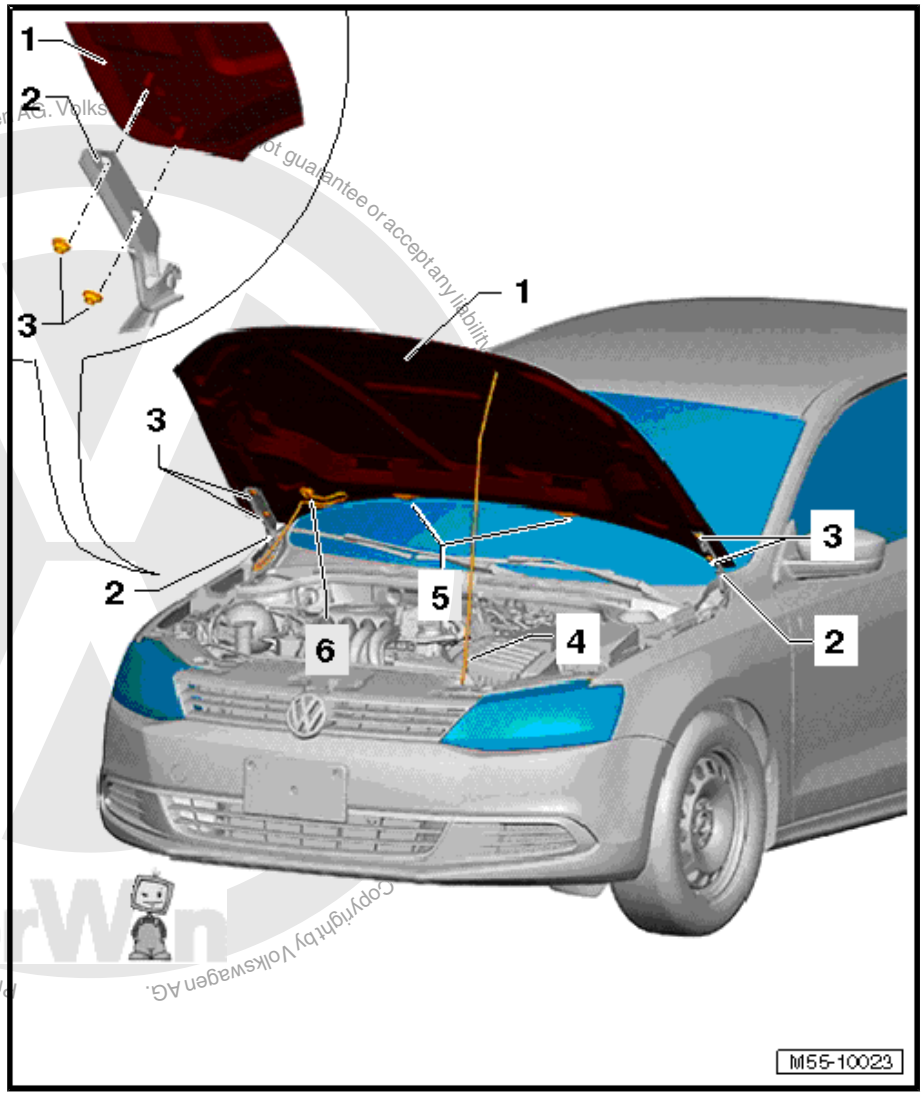
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1.3 Hood, Removing and Installing

⇒ “1.3.1 Removing”, page 34

⇒ “1.3.2 Installing”, page 35

1.3.1 Removing



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Perform the following:

– Remove the spray nozzles -5-. Refer to ⇒ Electrical Equipment; Rep. Gr. 92 ; Windshield Washer System; Spray Nozzles, Removing and Installing .

– Unclip the line -6- from the hood -1-.

– Remove the line -6- from the hood opening -1-.

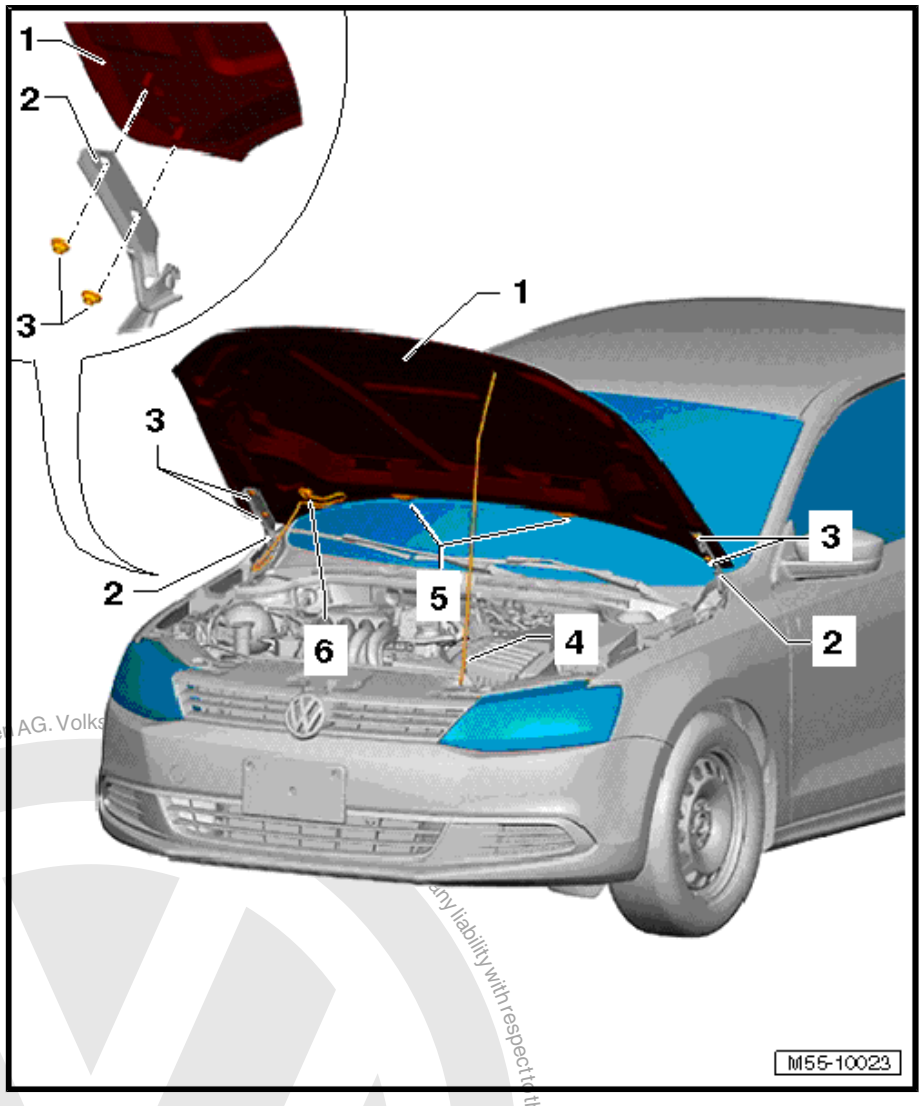
– Loosen the left and right nuts -3- on the hinge -2- (do not remove them).

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

– Remove the support rod -4- from the hood.

– Remove the nuts -3- and the hood -1- from the hinges -2-.

1.3.2 Installing



Perform the following:

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

Note

Route the washer fluid line -6- in one bow. If the line is installed twisted, it will kink.

Nut -3- tightening specification: 22 Nm

– Adjust the hood -1-. Refer to
⇒ “1.14 Hood, Adjusting”, page 52 .

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1.4 Hood Hinge, Removing and Installing

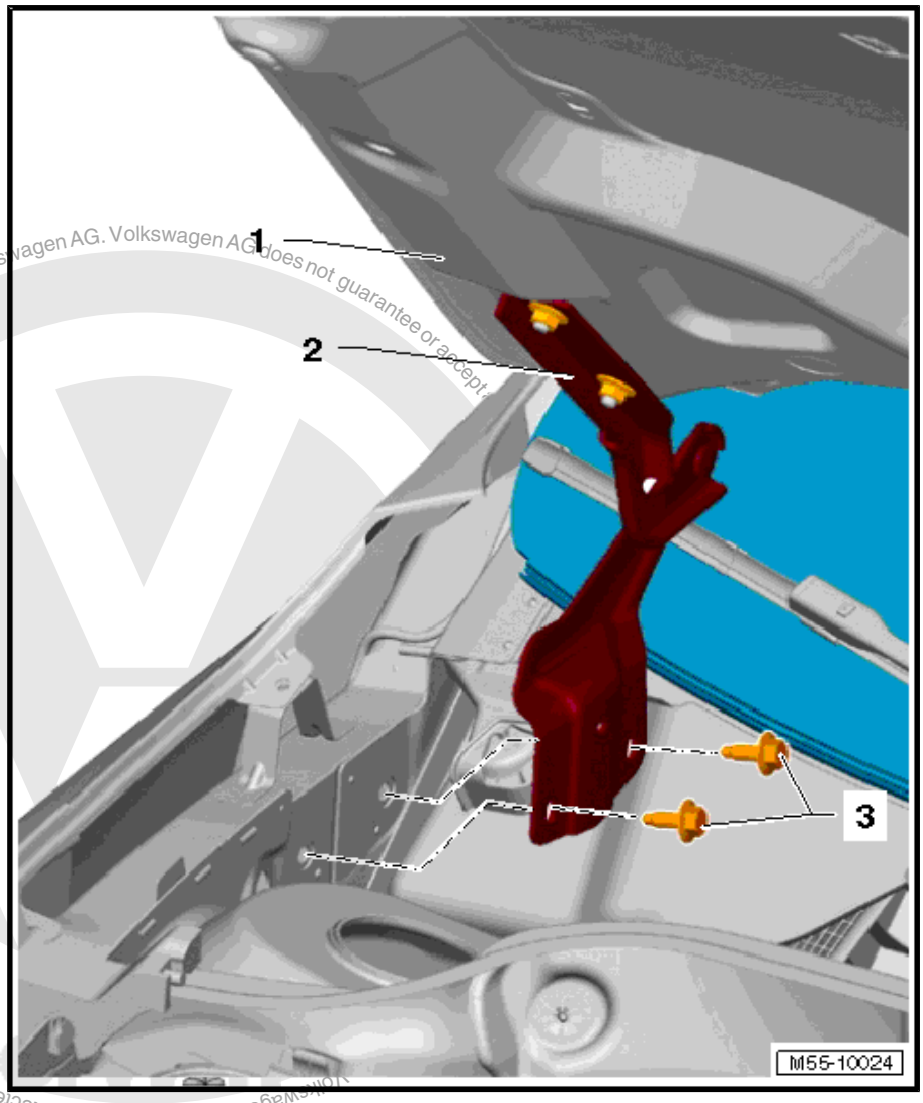
⇒ “1.4.1 Removing”, page 36

⇒ “1.4.2 Installing”, page 37

1.4.1 Removing

Note

The following describes the removal and installation of the right hinge. Removing and installing the left hinge is identical.



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Perform the following:

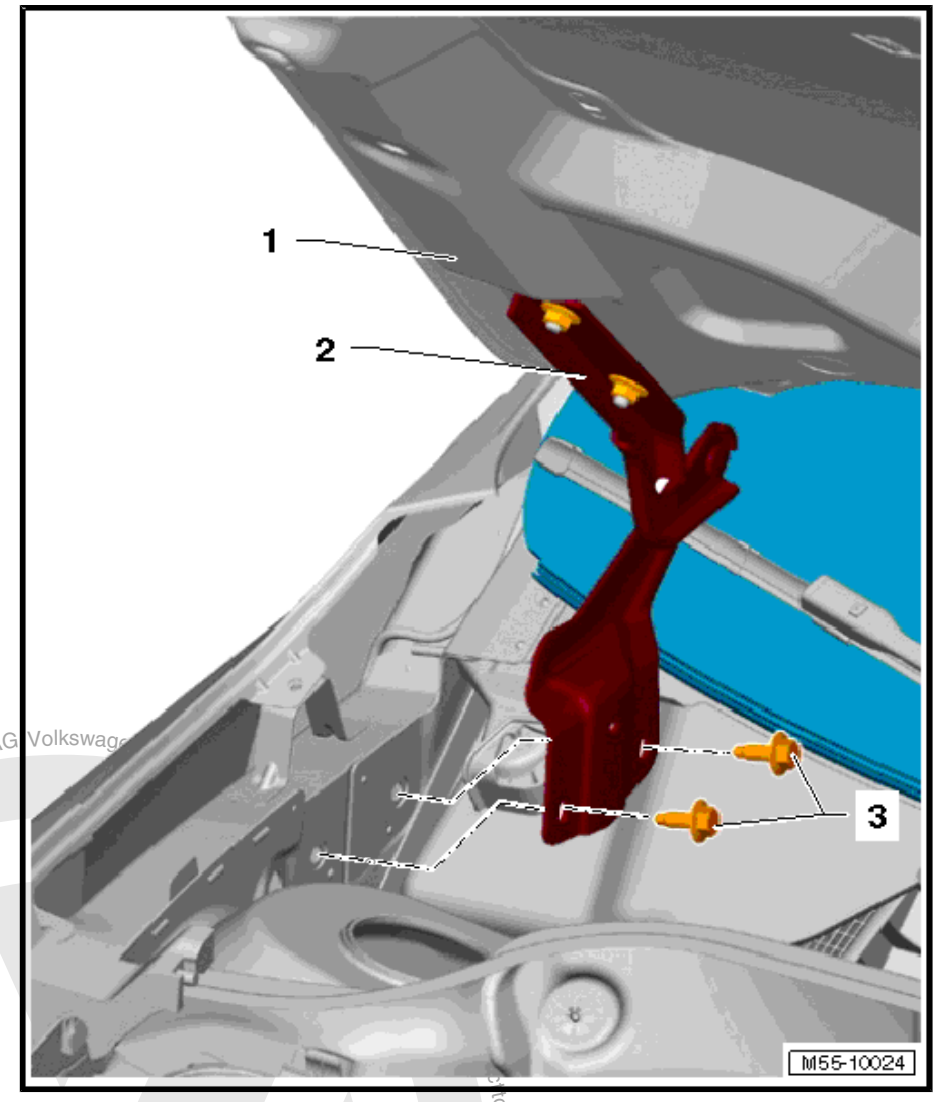
– Remove the hood -1-. Refer to ⇒ “1.3 Hood, Removing and Installing”, page 34 .

– Remove the plenum chamber cover. Refer to ⇒ “3.2 Plenum Chamber Cover, Removing and Installing”, page 19 .

– Remove the bolts -3-.

– Remove the hinge -2-.

1.4.2 Installing



Perform the following:

Install the hinge -2- in reverse order of removal.

Tightening specification for the bolts -3-: 22 Nm

– Install the plenum chamber cover. Refer to ⇒ “3.2 Plenum Chamber Cover, Removing and Installing”, page 19 .

– Install the hood -1-. Refer to ⇒ “1.3 Hood, Removing and Installing”, page 34 .

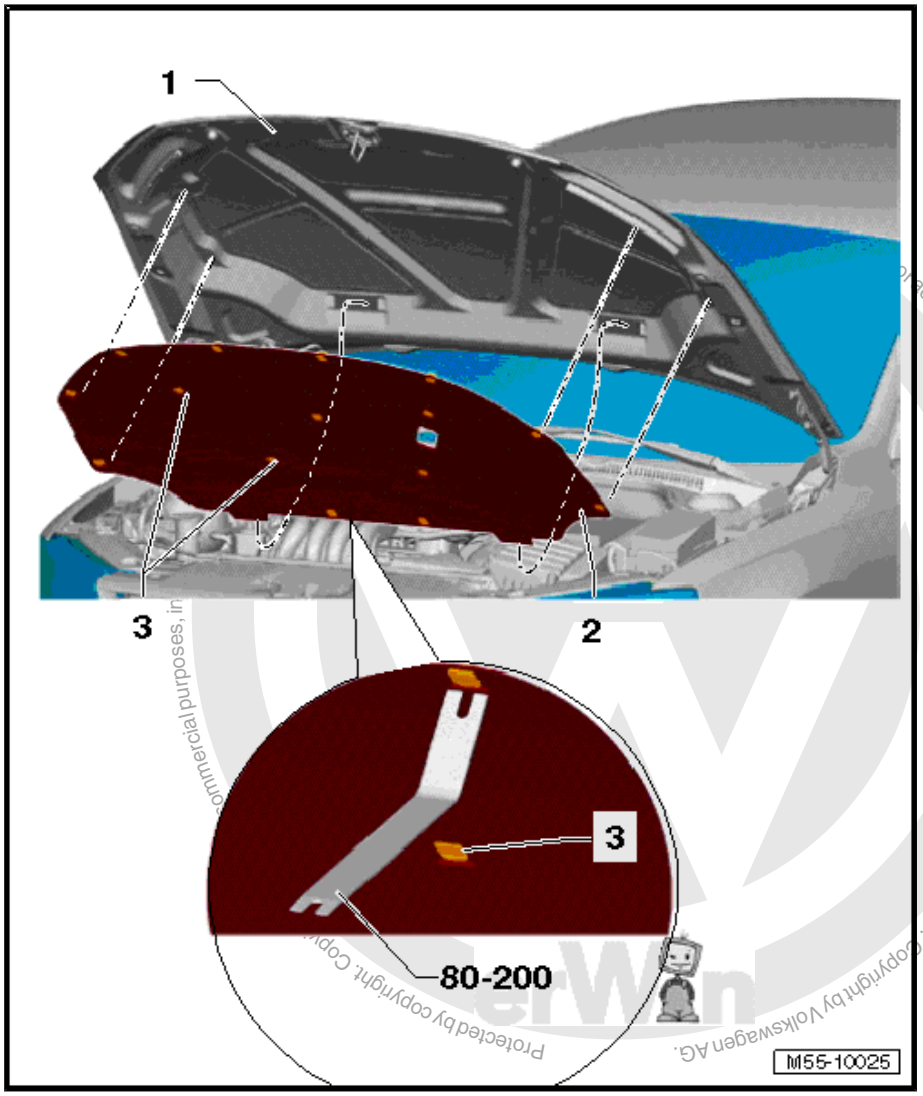
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1.5 Insulation, Removing and Installing

⇒ “1.5.1 Removing”, page 38

⇒ “1.5.2 Installing”, page 39

1.5.1 Removing



Perform the following:

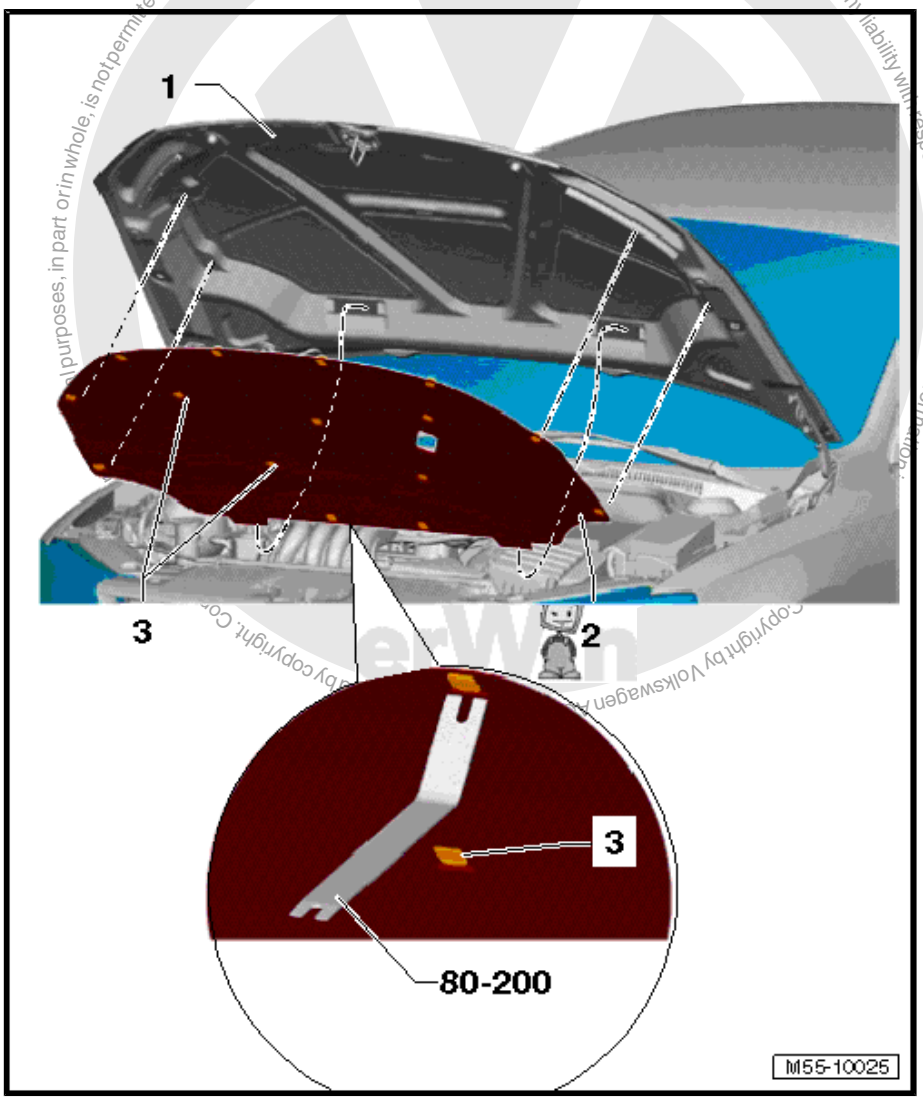
– Support the hood -1- and remove the support rod from the hood.

– Remove the clips -3- from the hood -1- with the Pry Lever - 80 - 200- .

– Remove the noise insulation -2- from the oblong holes in the hood -1-.

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1.5.2 Installing



Perform the following:

– Install the noise insulation -2- with the mounting tabs into the oblong holes in the hood -1-.

– Lock all the clips -3- into the hood -1-.

1.6 Overview - Seals

1 - Hood

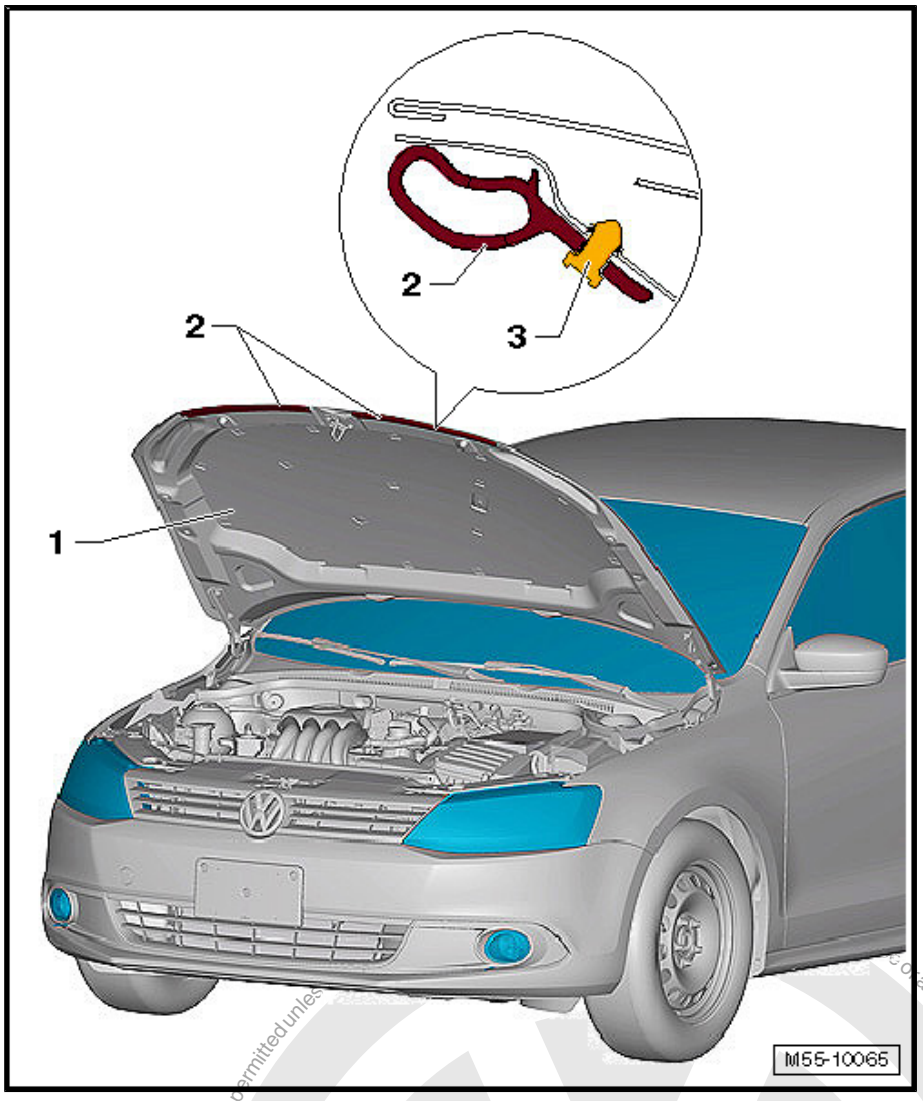
- ❑ Removing and installing. Refer to ⇒ “1.3 Hood, Removing and Installing”, page 34 .
- ❑ Refer to ⇒ “1.14 Hood, Adjusting”, page 52 for adjusting.

2 - Center Seal

- ❑ Removing:
- – Remove the center seal from the hood.
- ❑ Installing:
- – Push the seal together with the clips -3- back into the center of the hood.

3 - Clip

- ❑ Check for damage before installing and replace if necessary.



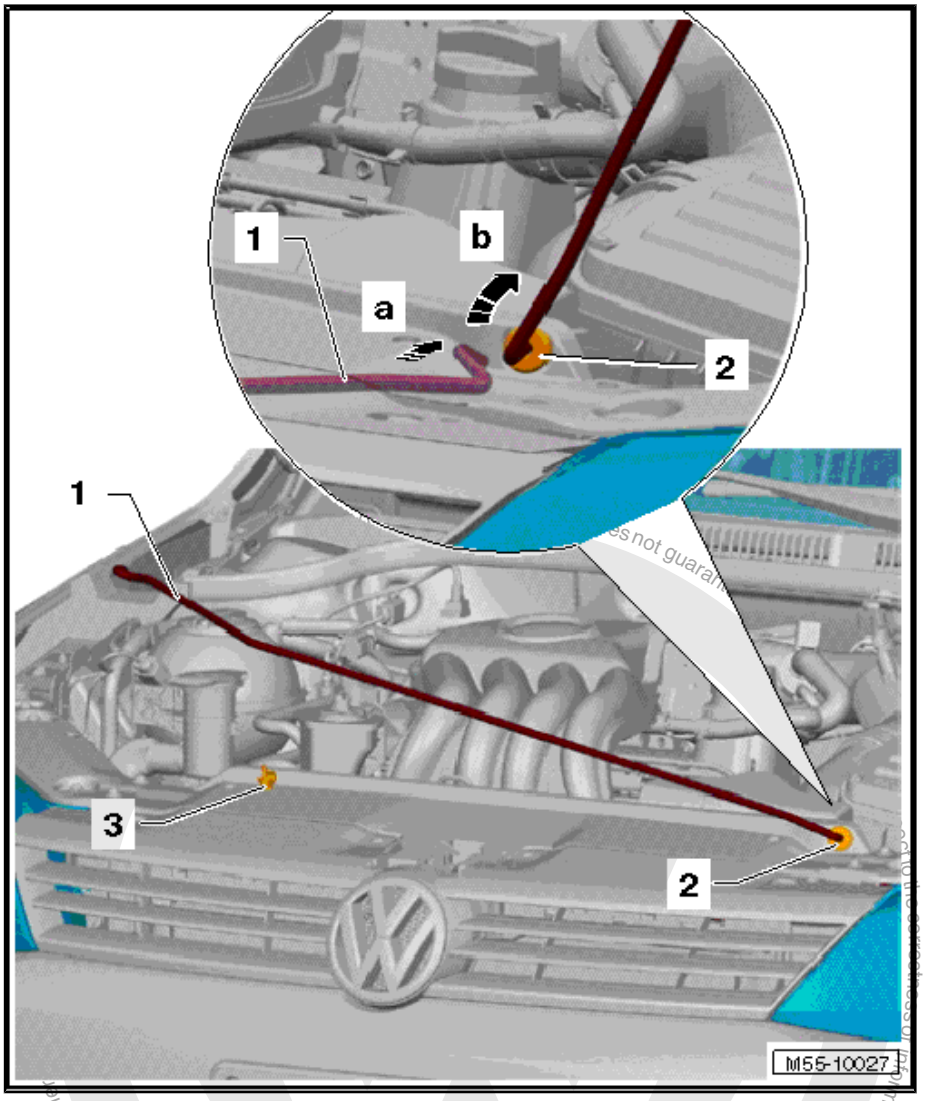
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1.7 Support Rod, Removing and Installing

⇒ “1.7.1 Removing”, page 41

⇒ “1.7.2 Installing”, page 42

1.7.1 Removing



Perform the following:

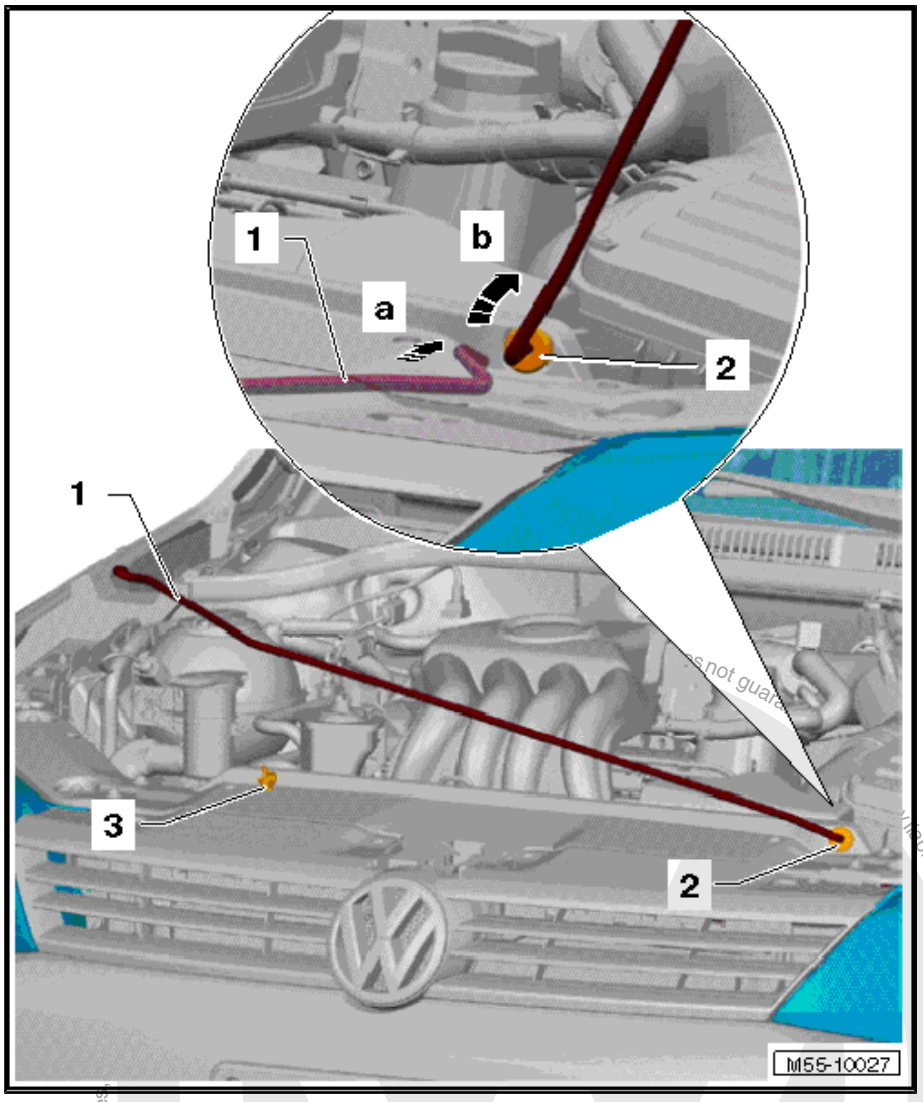
– Support the hood.

– Move the support rod -1- forward.

– Remove the support rod -1- from the rubber grommet -2-.

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1.7.2 Installing



Perform the following:

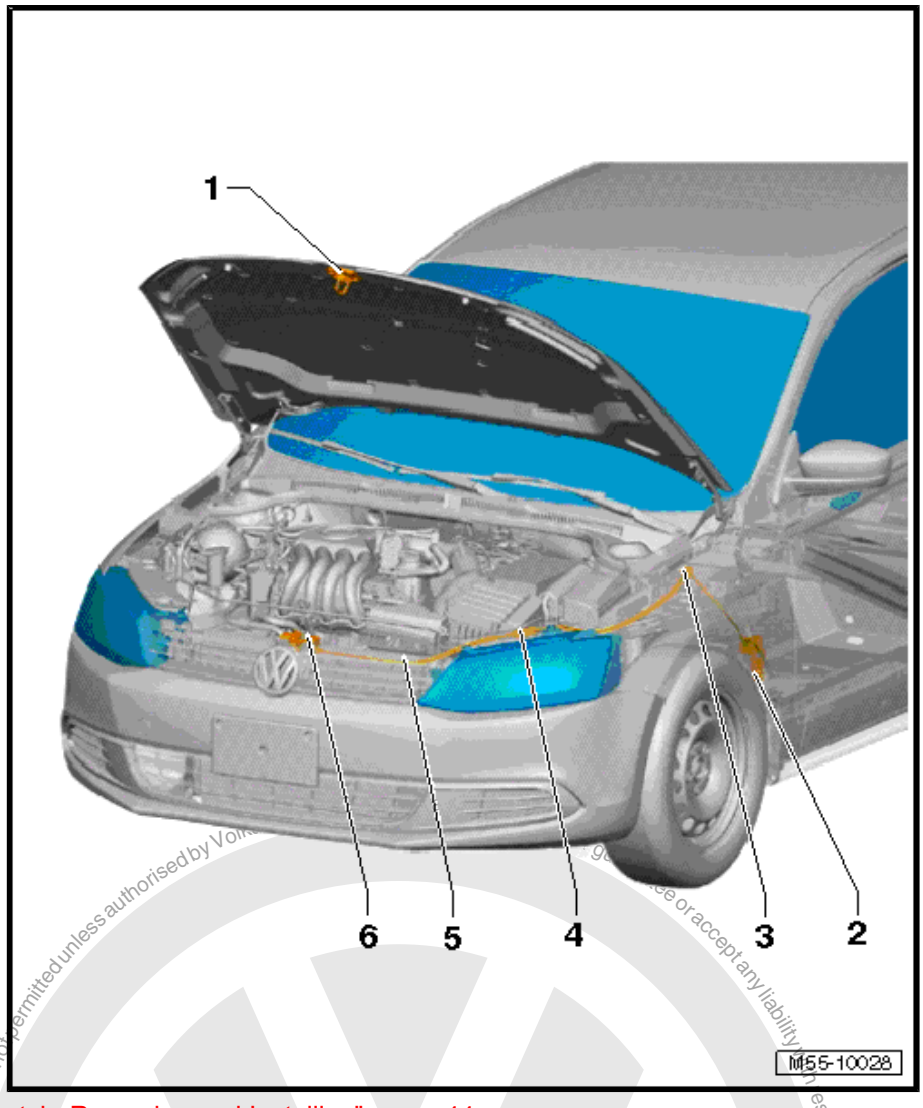
– Check the retainer -3- for damage. Replace it if necessary.

– Install the support rod -1- into the rubber grommet -2- -arrow a-.

– Move the support rod -1- back to the lock carrier -arrow b-.

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1.8 Overview - Hood Locking and Unlocking Components



1 - Striker Pin

- ❑ Removing and installing. Refer to ⇒ “1.11 Striker Pin, Removing and Installing”, page 47 .
- ❑ Refer to ⇒ “1.14.2 Striker Pin, Adjusting”, page 54 for adjusting.

2 - Operating Lever

- ❑ Removing and installing. Refer to ⇒ “1.13 Release Lever, Removing and Installing”, page 50 .

3 - Cable

- ❑ From the hood release lever -2- to the coupling -4- on the cable

4 - Cable Coupling

- ❑ The cable coupling is located above the headlamp on the driver side.
- ❑ Disconnecting. Refer to ⇒ “1.10 Cable, Disconnecting”, page 46 .

5 - Cable

- ❑ From the cable coupling -4- to the latch -6-
- ❑ Clipped into the cable coupling.

6 - Latch

- ❑ Latch, Removing and installing. Refer to ⇒ “1.9 Latch, Removing and Installing”, page 44 .
- ❑ Refer to ⇒ “1.14.1 Latch, Adjusting”, page 53 for adjusting.

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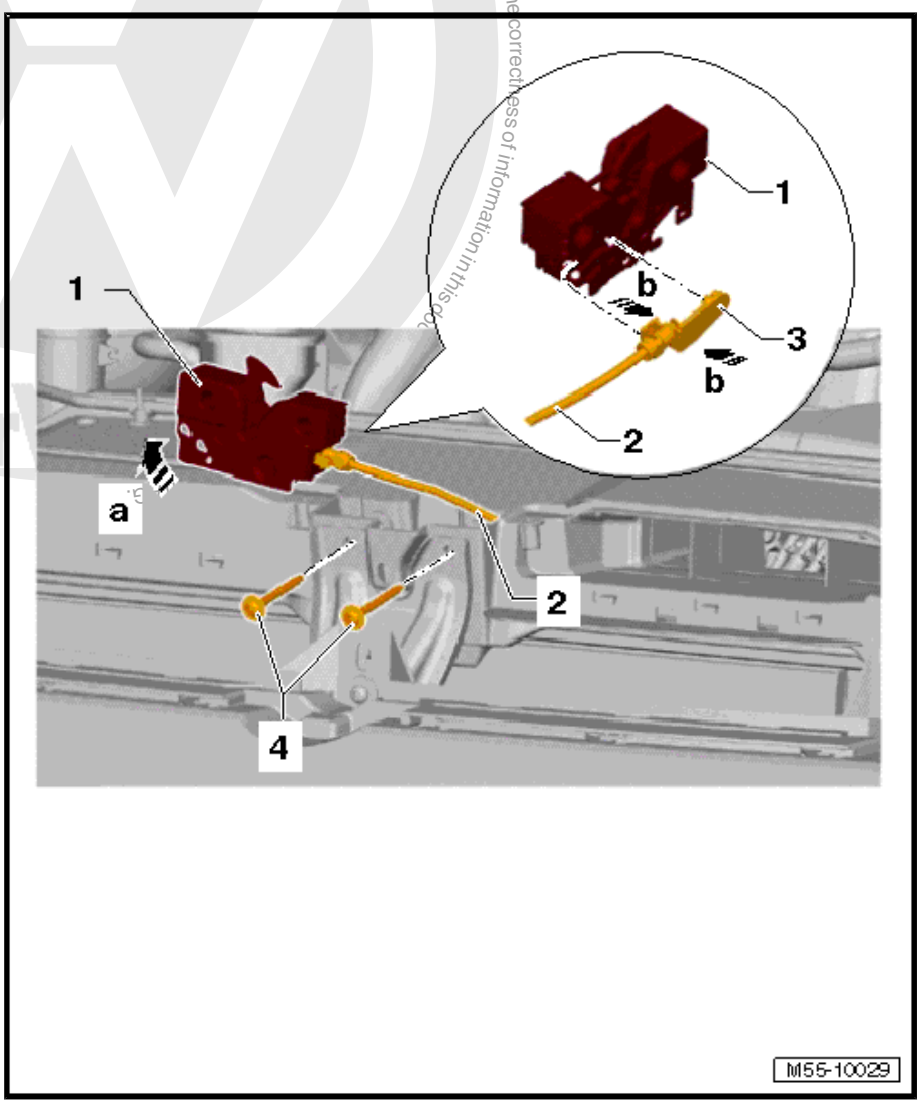
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1.9 Latch, Removing and Installing

⇒ “1.9.1 Removing”, page 44

⇒ “1.9.2 Installing”, page 45

1.9.1 Removing



Perform the following:

– Open the hood.

– Remove the radiator grille. Refer to ⇒ “3.2 Radiator Grille, Removing and Installing”, page 291 .

– Disconnect the cable -2- at the cable coupling. Refer to ⇒ “1.10 Cable, Disconnecting”, page 46 .

– Disconnect the connector from the Engine Hood Contact Switch - F266- (if equipped).

Note

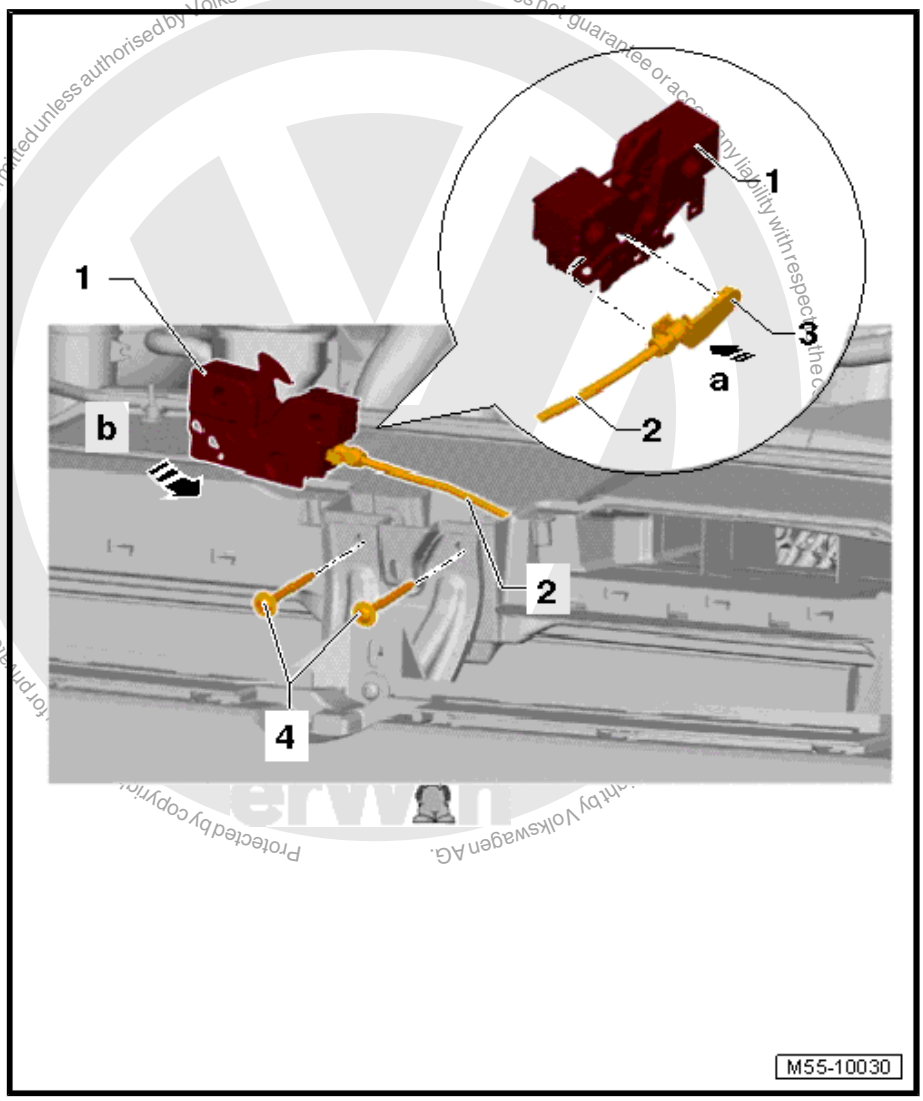
The connector is attached to the top of the lock carrier on the left side.

– Remove the bolts -4- from the lock carrier and remove the lid latch -1- upward -arrow a-.
– If equipped, guide the Engine Hood Contact Switch - F266- wire out of the lock carrier.
– Press the tabs -b arrows- and remove the bracket -3-.
– After loosening the catch on the bracket, remove the cable -2- from the latch -1-.

Note

Removing and installing the Engine Hood Contact Switch - F266- on the latch. Refer to ⇒ Electrical Equipment; Rep. Gr. 96 ; Anti-Theft Alarm System; Engine Hood Contact Switch - F266- , Removing and Installing .

1.9.2 Installing



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Perform the following:

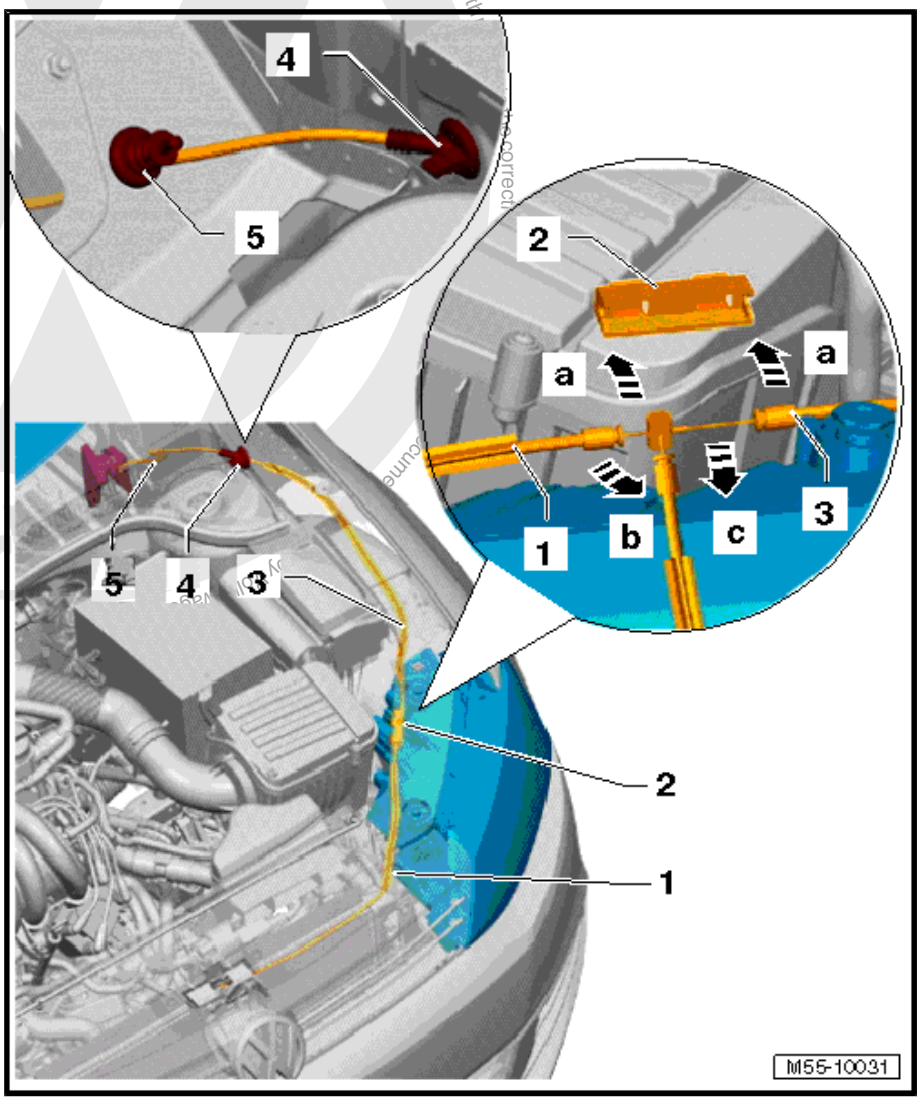
– Attach the cable -2- to the latch -1- and clip the bracket -3- into the latch -1- -arrow a-.
– If equipped, guide the Engine Hood Contact Switch - F266- wire back into the lock carrier.

– Install the latch -1- in the lock carrier -arrow b-.
– Install the bolts -4-.

Tightening specification for the bolts -4-: 12 Nm.

– Connect the connector to the Engine Hood Contact Switch - F266- , (if equipped).
– Connect the cable -2- at the cable coupling. Refer to ⇒ “1.10 Cable, Disconnecting”, page 46 .
– Adjust the latch. Refer to ⇒ “1.14.1 Latch, Adjusting”, page 53 .
– Install the radiator grille. Refer to ⇒ “3.2 Radiator Grille, Removing and Installing”, page 291 .

1.10 Cable, Disconnecting



Perform the following:

– Open the hood.
– Remove the cover for the cable coupling -2- above the head-lamp on the driver side from the lock carrier.
– Remove the cover -2- from the cables -1 and 3- -arrows a-.

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– Move the cable -1- 90° -arrow b- and then remove it -1- from the its mount -3- in direction of -arrow c-.

Note

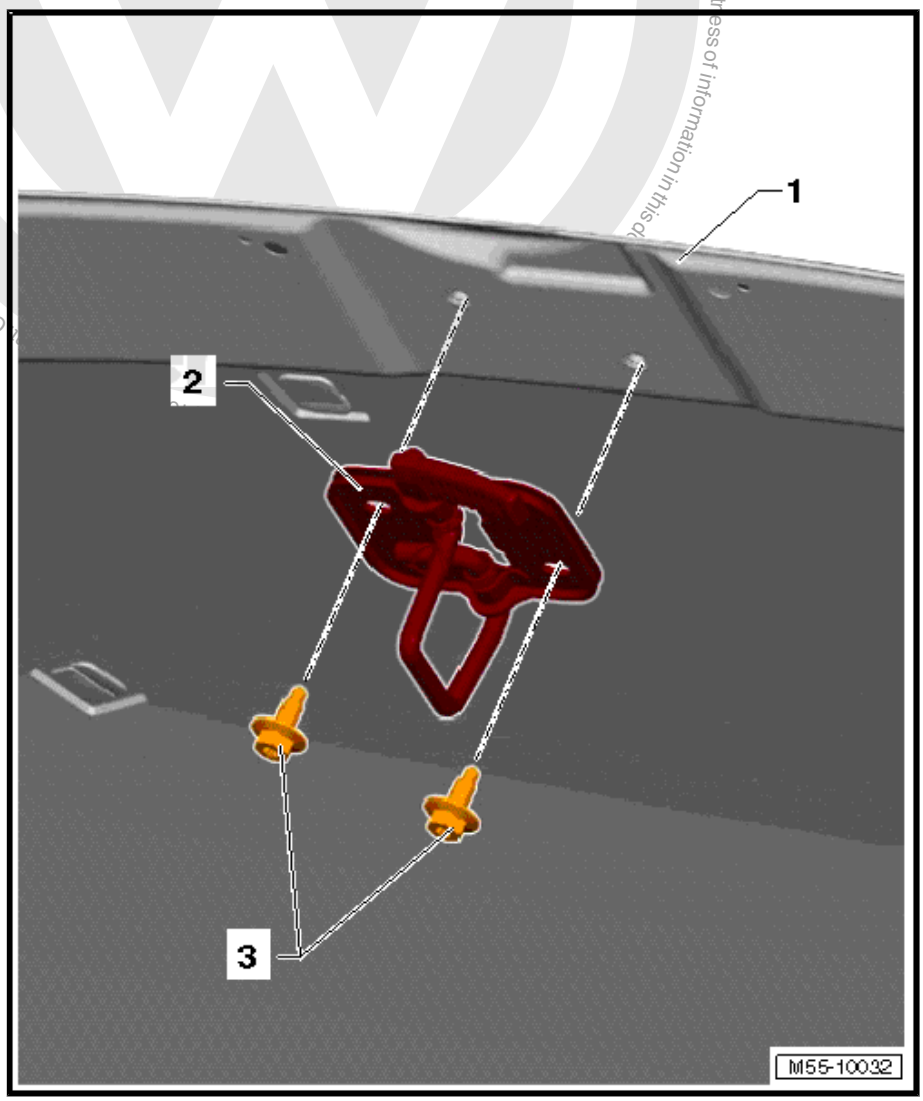
Make sure the grommets -4 and 5- are installed correctly when installing the cable -3-.

1.11 Striker Pin, Removing and Installing

⇒ "1.11.1 Removing", page 47

⇒ "1.11.2 Installing", page 48

1.11.1 Removing



Perform the following:

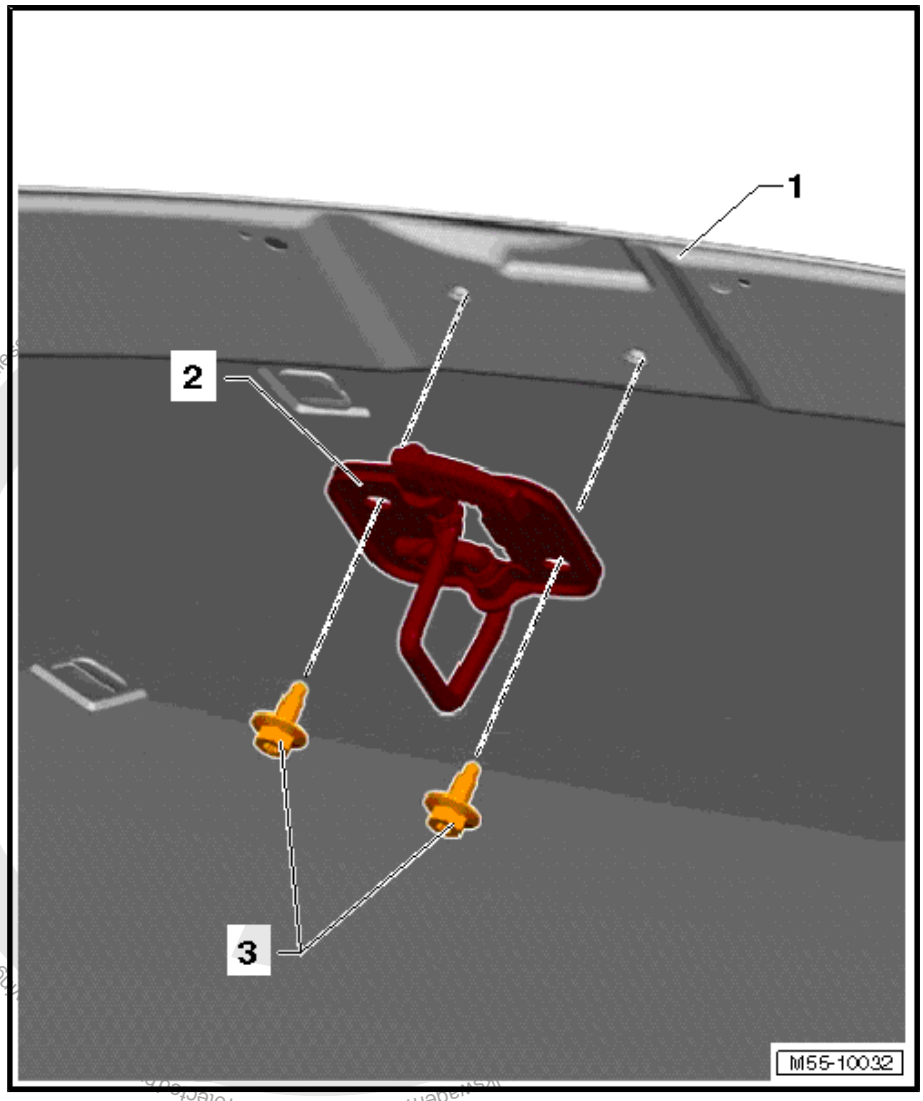
– Open the hood -1-.

– Remove the bolts -3-.

– Remove the catch -2- from the hood -1-.

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1.11.2 Installing



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Perform the following:

Install the hood catch -2- in reverse order of removal.

Bolt tightening specification -3-: 10 Nm

– Adjust the striker pin. Refer to
⇒ “1.14.2 Striker Pin, Adjusting”, page 54 .

1.12 Overview - Hood Release Lever and Mounting Bracket

1 - Mounting Bracket

2 - Cable

- ❑ Installing:
  - – Install the ball on the end of the cable into the retainer on the mounting bracket.
  - – Clip the cable into the mounting bracket.

3 - Expanding Nut

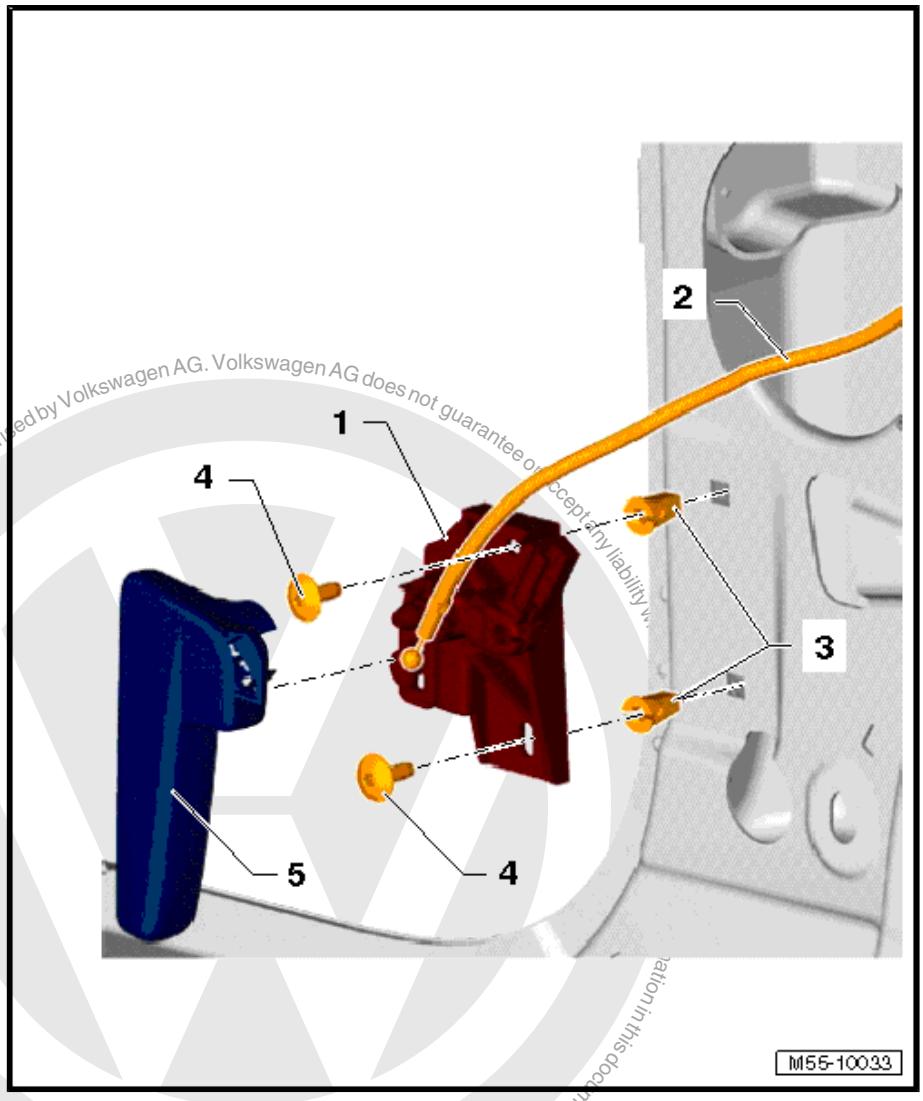
- ❑ Quantity: 2

4 - Screw

- ❑ Tightening specification: 1.5 Nm
- ❑ Quantity: 2

5 - Operating Lever

- ❑ Removing and installing. Refer to ⇒ “1.13 Release Lever, Removing and Installing”, page 50 .



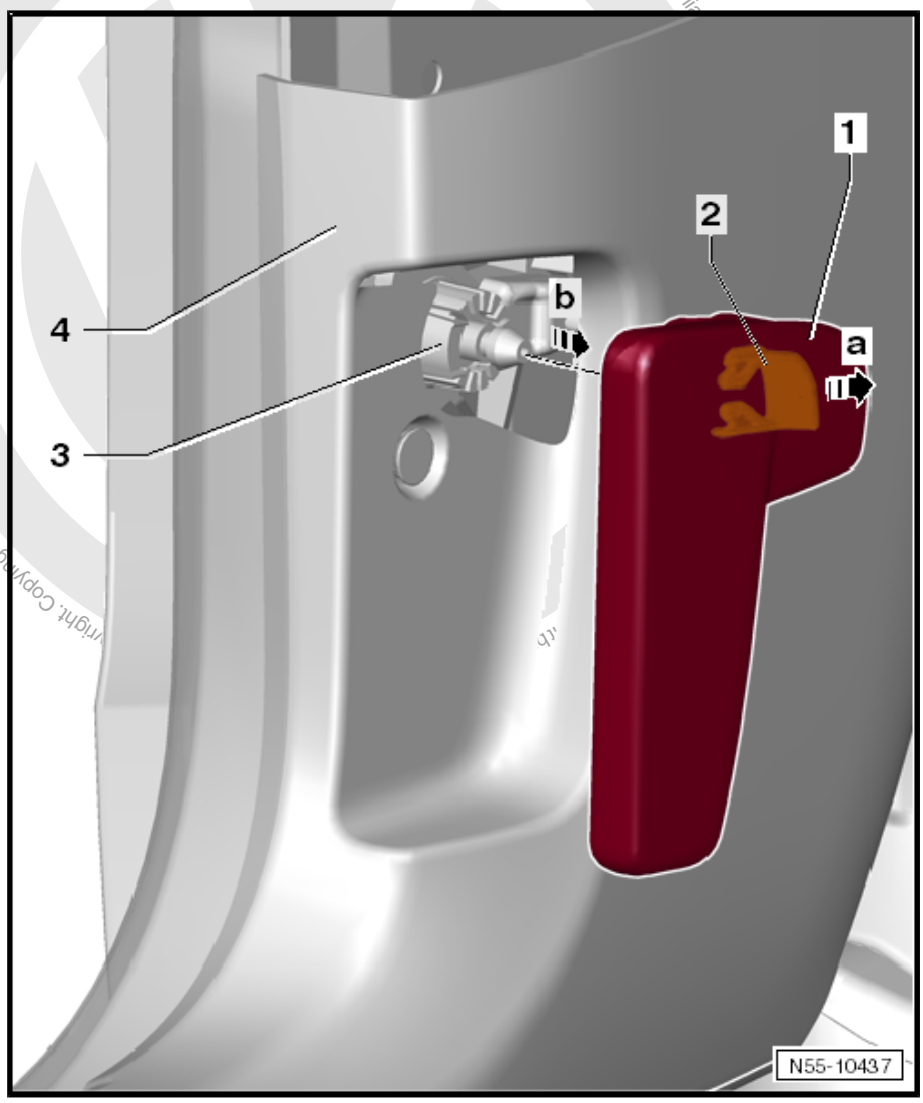
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1.13 Release Lever, Removing and Installing

⇒ “1.13.1 Removing”, page 50

⇒ “1.13.2 Installing”, page 51

1.13.1 Removing



Perform the following:

– Pull the hood release lever -1- and release the hood.

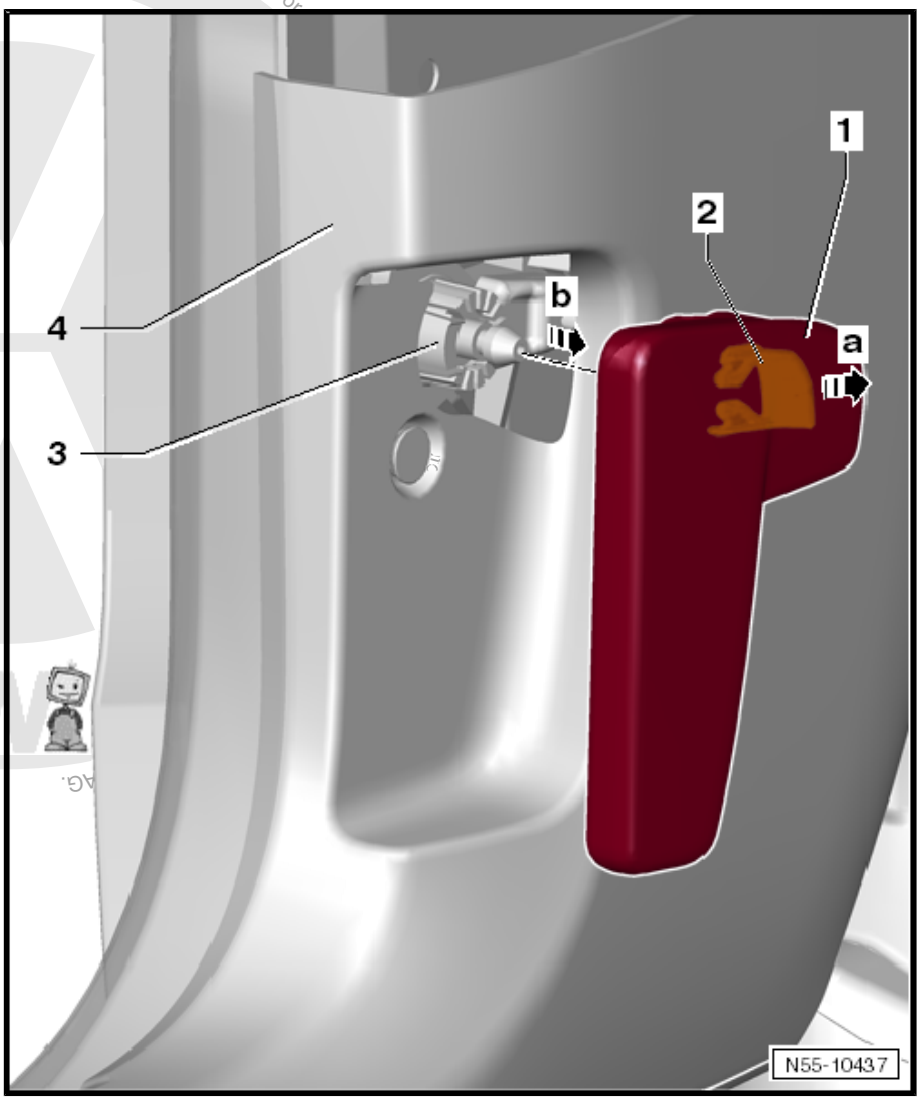
– Insert a small screwdriver into the gap between the release lever -1- and the clip -2-.

– Pry the clip -2- out of the release lever -1- -arrow a- and then remove the release lever from the mounting bracket -3- -arrow b-.

It is necessary to remove the lower trim on the A-pillar -4- if additional work must be performed on the mounting bracket -3-. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels .

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1.13.2 Installing



Perform the following:

– Slide the clip -2- into the release lever -1-.

– Install the hood release lever -1- on the mounting bracket -3-.

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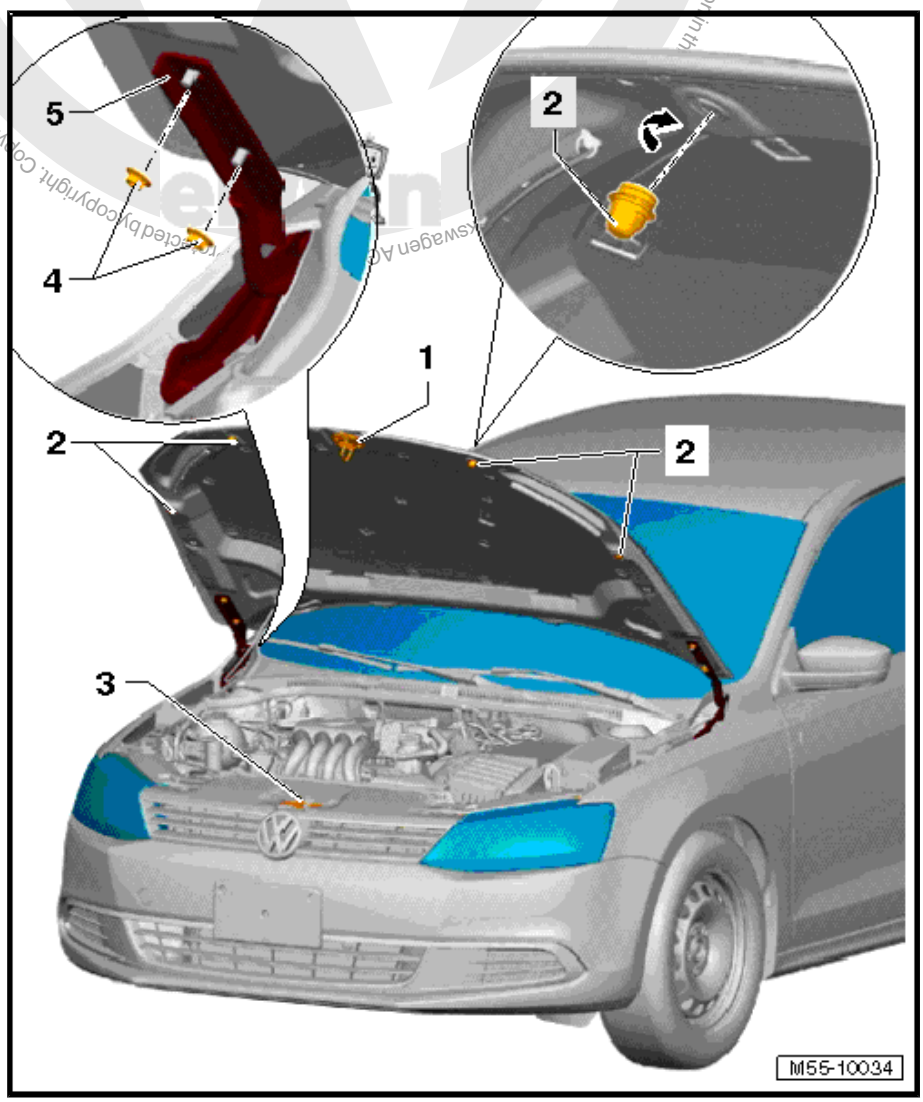
1.14 Hood, Adjusting

⇒ “1.14.1 Latch, Adjusting”, page 53

⇒ “1.14.2 Striker Pin, Adjusting”, page 54

Note

- *The vehicle must be on all four wheels when adjusting the hood.*
- *The left and right adjusting buffers -2- are not meant for adjusting. Their function is to stabilize and to cushion the hood.*
- *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 hood must engage into the latch without using much force.*
- *Do not remove the nuts -4-. Only loosen them.*



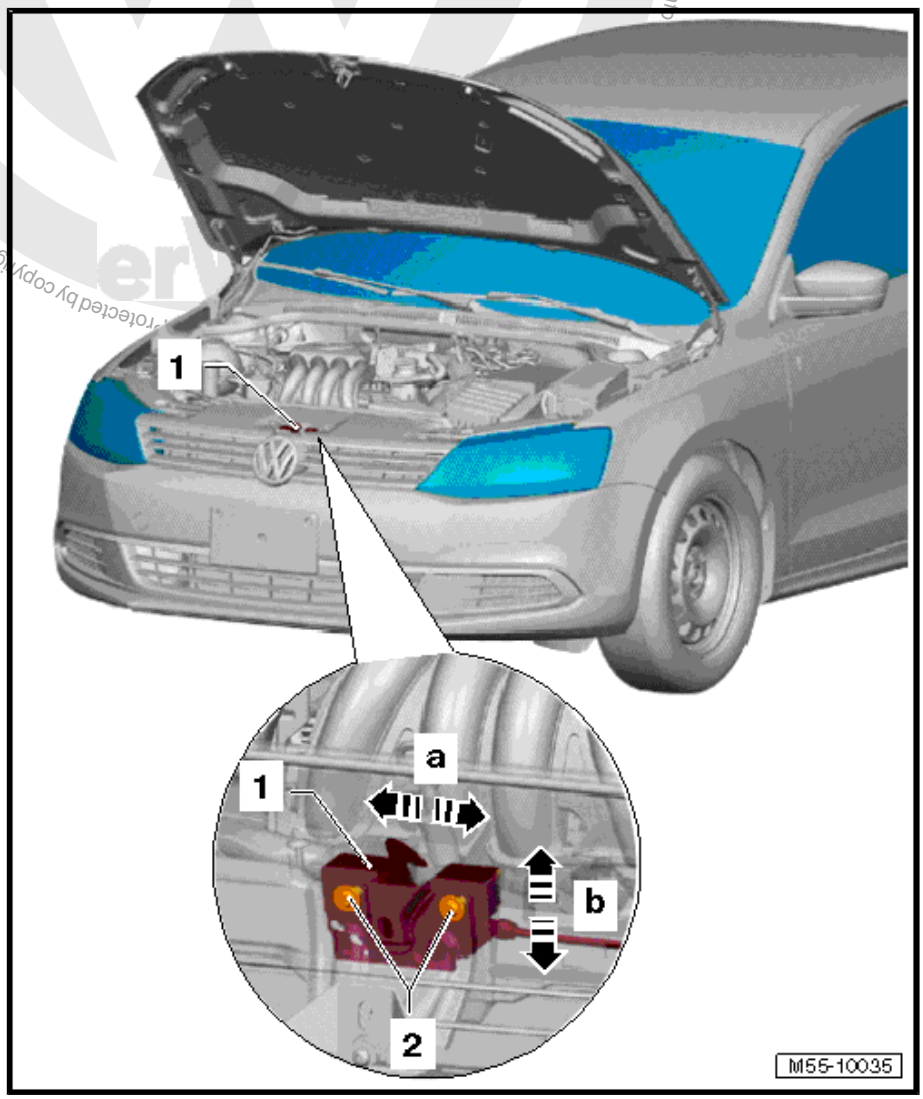
Perform the following:

– Remove the catch -1-. Refer to
⇒ “1.11 Striker Pin, Removing and Installing”, page 47 .

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– Loosen, but do not remove, the left and right nuts -4- on the hood hinge -5- and then align the hood between the fenders.
– Make sure the gap dimensions are even. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions; Body Front
– After adjustment work, apply corrosion protection to the hinges -5- and the nuts -4-.
– Turn the adjusting buffer -2- -arrow- to adjust.
– After adjusting the hood the catch -1- can be reinstalled and adjusted. Refer to
⇒ “1.14.2 Striker Pin, Adjusting”, page 54 .
– The hood in the front area can be adjusted to the height of the fenders using the latch -3-. Refer to
⇒ “1.14.1 Latch, Adjusting”, page 53 .

1.14.1 Latch, Adjusting



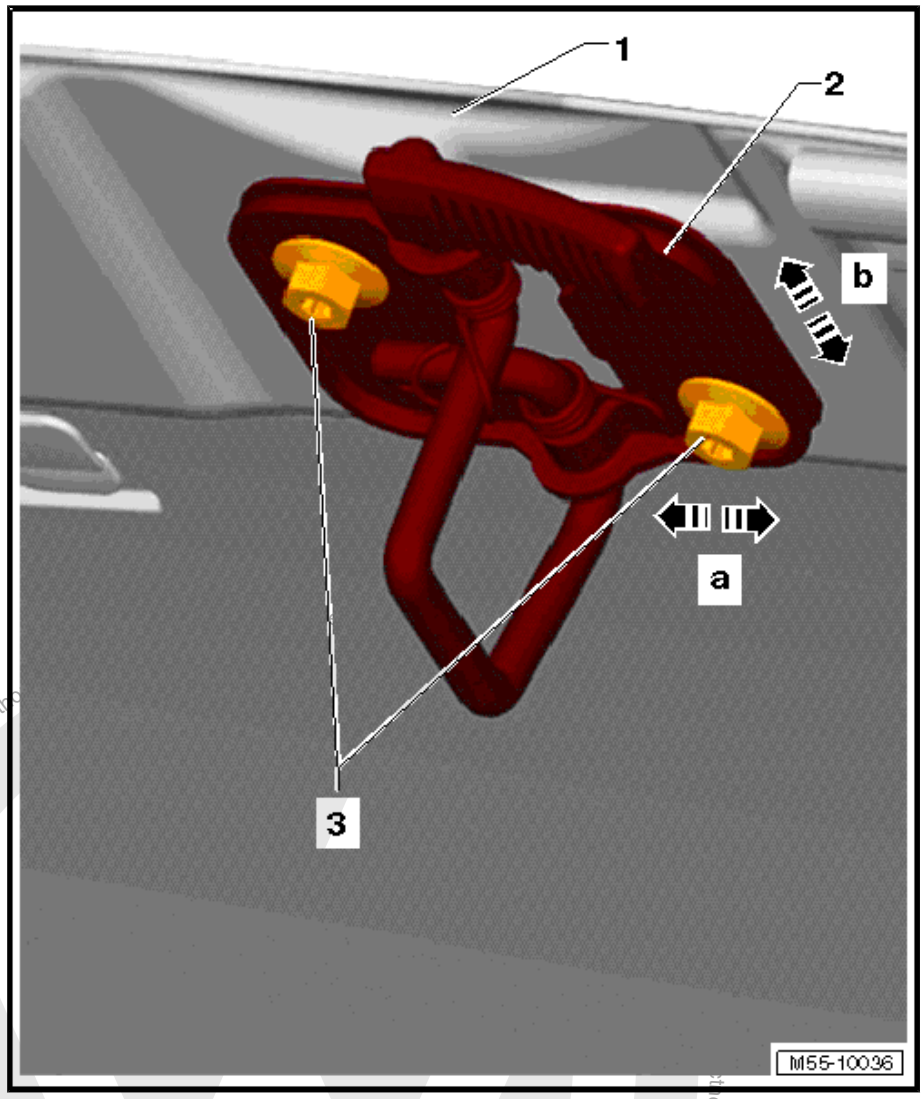
Perform the following:

– Remove the radiator grille. Refer to
⇒ “3.2 Radiator Grille, Removing and Installing”, page 291 .
– If the bolts -2- are loosened, the latch -1- can be adjusted from side to side -a arrows- and in height -b arrows-. Refer to

⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions; Body Front .

Bolt tightening specification -2-: 12 Nm.

1.14.2 Striker Pin, Adjusting



Perform the following:

– Loosen the bolts -3-.

– The hood catch -2- can now be adjusted in the oversized holes.

Bolt tightening specification -3-: 10 Nm

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2 Rear Lid

⇒ “2.1 Tools”, page 55
⇒ “2.2 Overview - Rear Lid”, page 55
⇒ “2.3 Rear Lid, Removing and Installing”, page 57
⇒ “2.4 Overview - Gas-Filled Strut”, page 57
⇒ “2.5 Gas-Filled Strut, Removing and Installing”, page 58
⇒ “2.6 Gas-Filled Strut, Venting”, page 61
⇒ “2.7 Overview - Rear Lid Hinge”, page 61
⇒ “2.8 Rear Lid Hinge, Removing and Installing”, page 62
⇒ “2.9 Hinge Cover, Removing and Installing”, page 64
⇒ “2.10 Striker, Removing and Installing”, page 65
⇒ “2.11 Rear Lid, Adjusting”, page 65
⇒ “2.12 Rear Lid Handle Unlock Switch E234 , Removing and Installing”, page 67
⇒ “2.13 Latch, Removing and Installing”, page 68
⇒ “2.14 Rear Lid Seal”, page 69
⇒ “2.15 Rear Lid Seal, Removing and Installing”, page 69
⇒ “2.16 License Plate Holder”, page 72

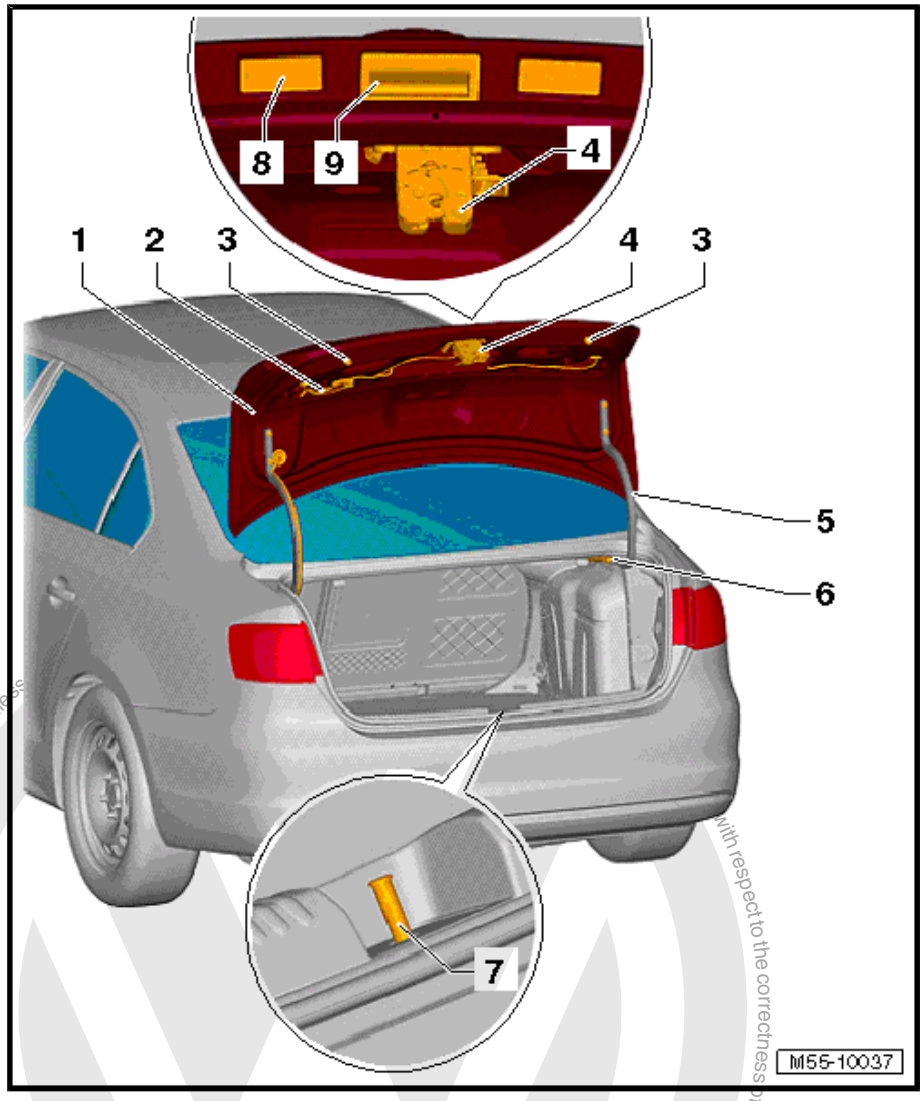
2.1 Tools

Special tools and workshop equipment required

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

2.2 Overview - Rear Lid

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1 - Rear Lid

- ❑ Removing and installing. Refer to ⇒ “2.3 Rear Lid, Removing and Installing”, page 57 .
- ❑ Refer to ⇒ “2.11 Rear Lid, Adjusting”, page 65 for adjusting.

2 - Wiring Harness

3 - Adjusting Buffer

- ❑ Left and right
- ❑ Refer to ⇒ “2.11 Rear Lid, Adjusting”, page 65 for adjusting.

4 - Latch

- ❑ Removing and installing. Refer to ⇒ “2.13 Latch, Removing and Installing”, page 68 .
- ❑ With emergency release cable. Refer to ⇒ “2.13 Latch, Removing and Installing”, page 68 .

5 - Hinge

- ❑ Removing and installing. Refer to ⇒ “2.8 Rear Lid Hinge, Removing and Installing”, page 62

6 - Gas-Filled Strut

- ❑ Removing and installing. Refer to ⇒ “2.5 Gas-Filled Strut, Removing and Installing”, page 58 .
- ❑ Venting. Refer to ⇒ “2.6 Gas-Filled Strut, Venting”, page 61 .

7 - Striker

- ❑ Removing and installing. Refer to ⇒ “2.10 Striker, Removing and Installing”, page 65 .
- ❑ Refer to ⇒ “2.11.1 Striker, Adjusting”, page 67 for adjusting.
- ❑ Allocation. Refer to the Parts Catalog.

8 - License Plate Lamp

- ❑ Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; License Plate Lamp; License Plate Lamp, Removing and Installing .

9 - Rear Lid Release Button

- ❑ Removing and installing. Refer to ⇒ “2.12 Rear Lid Handle Unlock Switch E234 , Removing and Installing”, page 67 .

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2.3 Rear Lid, Removing and Installing

⇒ “2.3.1 Removing”, page 57

⇒ “2.3.2 Installing”, page 57

2.3.1 Removing

Perform the following:

– Remove the trim panel from the rear lid. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Rear Lid Trim Panel, Removing and Installing .

– If equipped, remove the left and right hinge cover. Refer to ⇒ “2.9 Hinge Cover, Removing and Installing”, page 64 .

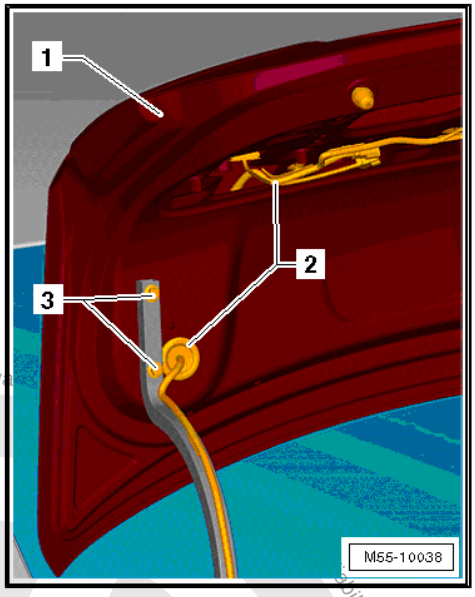
– Disconnect the connectors from any electrical components.

– Remove the wires -2- with the rubber grommet out of the rear lid -1-.

– Loosen, but do not remove, the bolts -3- on the left and right hinges.

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

– Remove the bolts -3- and the rear lid -1-.



2.3.2 Installing

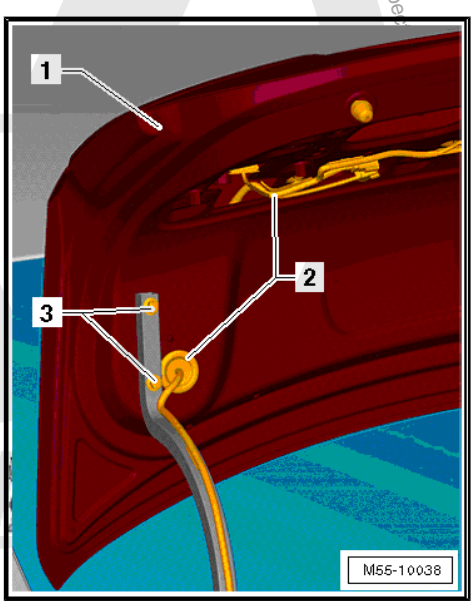
Perform the following:

Install the rear lid -1- in reverse order of removal.

Bolt -3- tightening specification: 9 Nm

– Adjust the rear lid. Refer to ⇒ “2.11 Rear Lid, Adjusting”, page 65 .

• Perform a function test on the unlocking components before closing the rear lid.



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2.4 Overview - Gas-Filled Strut

1 - Gas-Filled Strut

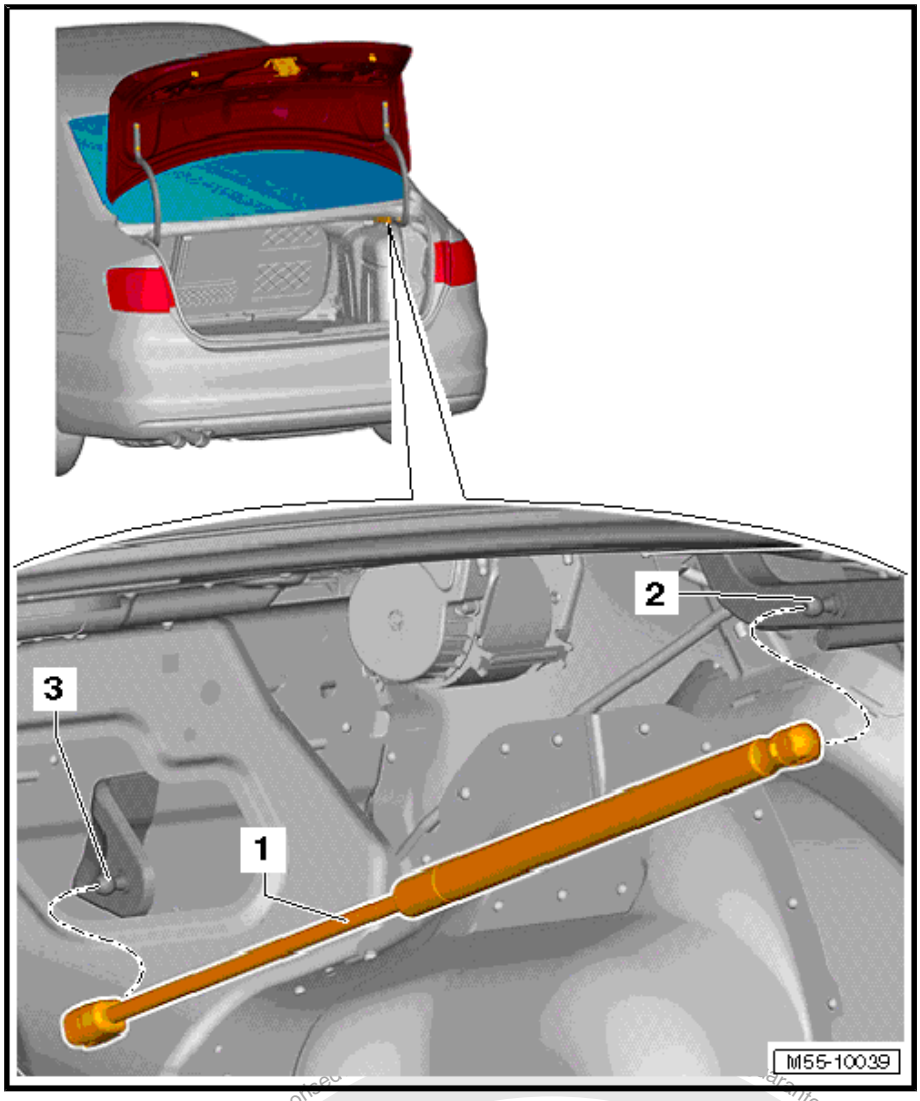
- ❑ Removing and installing. Refer to ⇒ “2.5 Gas-Filled Strut, Removing and Installing”, page 58 .
- ❑ Venting. Refer to ⇒ “2.6 Gas-Filled Strut, Venting”, page 61 .

2 - Ball Stud

- ❑ Only on the right hinge
- ❑ Cannot be removed from the hinge

3 - Retaining Bracket with Ball Stud

- ❑ On the rear panel
- ❑ Cannot be removed from the rear panel



2.5 Gas-Filled Strut, Removing and Installing

⇒ “2.5.1 Removing”, page 58

⇒ “2.5.2 Installing”, page 60

2.5.1 Removing

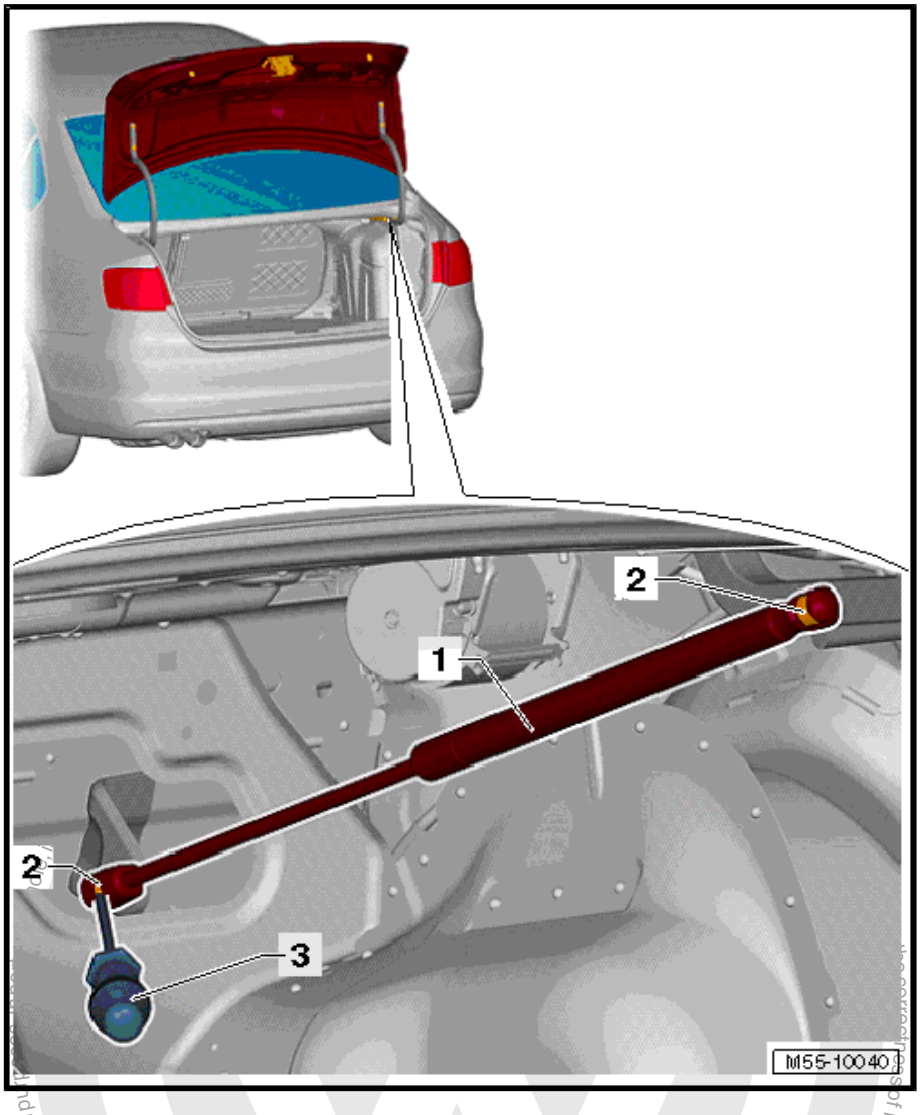
Note

Support the rear lid if it is necessary to remove the gas-filled strut.

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WARNING

Be careful when reusing the gas strut. Do not pry the spring clip completely out of the ball socket or the spring clip will be damaged. The gas-filled strut will spring out of the mount, resulting in damage or injury to the technician.



Perform the following:

– Open the rear lid and support it.
– Insert a small screwdriver -3- under the spring clips -2-.
– Lift the spring clips -2- just far enough so it is possible to slide them over the ball sockets.
– Remove the gas-filled strut -1- from the ball stud.

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

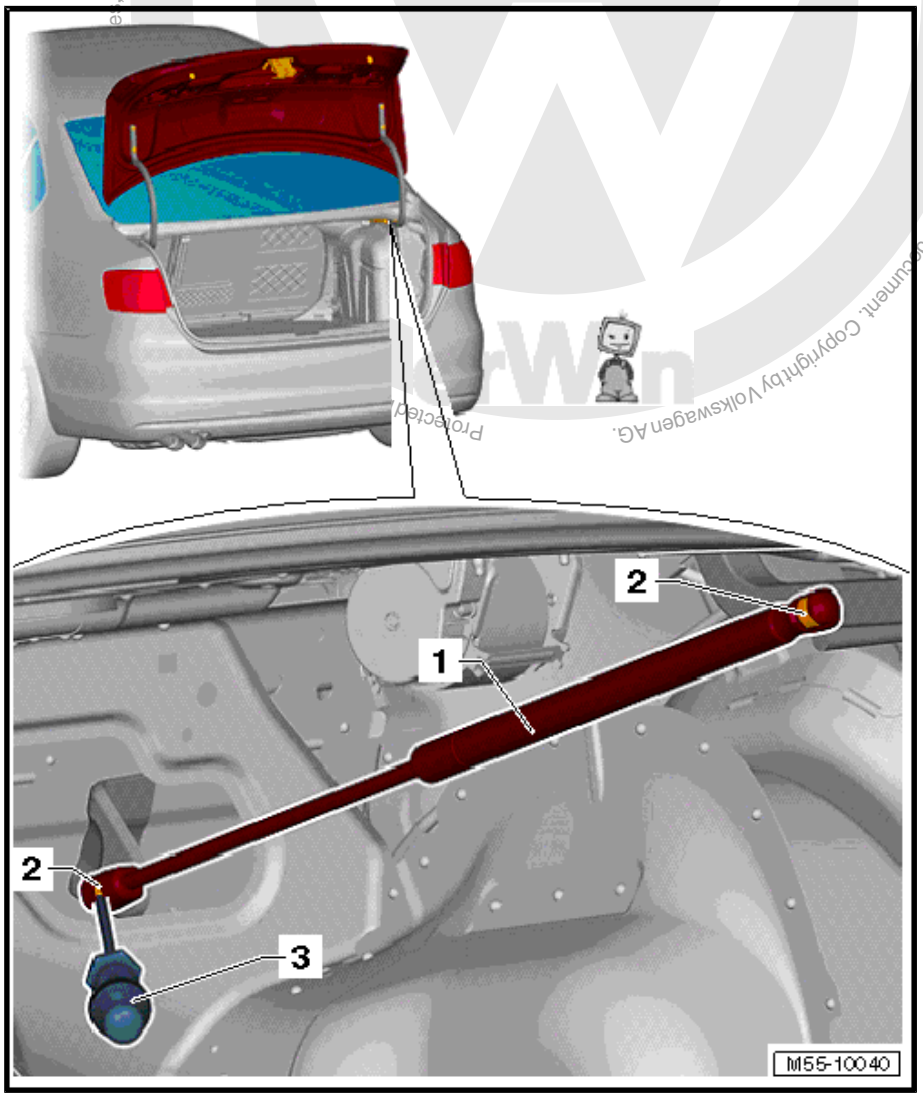
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WARNING

Be careful when reusing the gas strut. Do not pry the spring clip completely out of the ball socket or the spring clip will be damaged. The gas-filled strut will spring out of the mount, resulting in damage or injury to the technician.

– Release the pressure from gas-filled strut. Refer to ⇒ “2.6 Gas-Filled Strut, Venting”, page 61 .

2.5.2 Installing



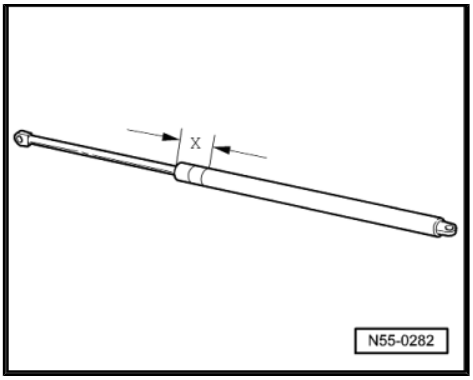
Perform the following:

– Push the gas-filled strut ball socket -1- onto the ball stud until the ball socket clicks into place on the ball stud.

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2.6 Gas-Filled Strut, Venting

– Clamp the gas-filled strut in area -x- = 50 mm into the vise.



WARNING

Only clamp the gas strut in area -x-. Otherwise, an accident may occur.

– Cut open the cylinder of the gas-filled strut within the first third of the total cylinder length, using the piston rod end of the cylinder as a reference point.

Note

- *Wear protective eyewear when sawing.*
- *Cover the area of the saw cut with a cleaning cloth.*
- *Dispose of the oil and cleaning cloths properly.*

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2.7 Overview - Rear Lid Hinge

1 - Rear Lid

- ❑ Removing and installing. Refer to ⇒ “2.3 Rear Lid, Removing and Installing”, page 57 .
- ❑ Refer to ⇒ “2.11 Rear Lid, Adjusting”, page 65 for adjusting.

2 - Bolt

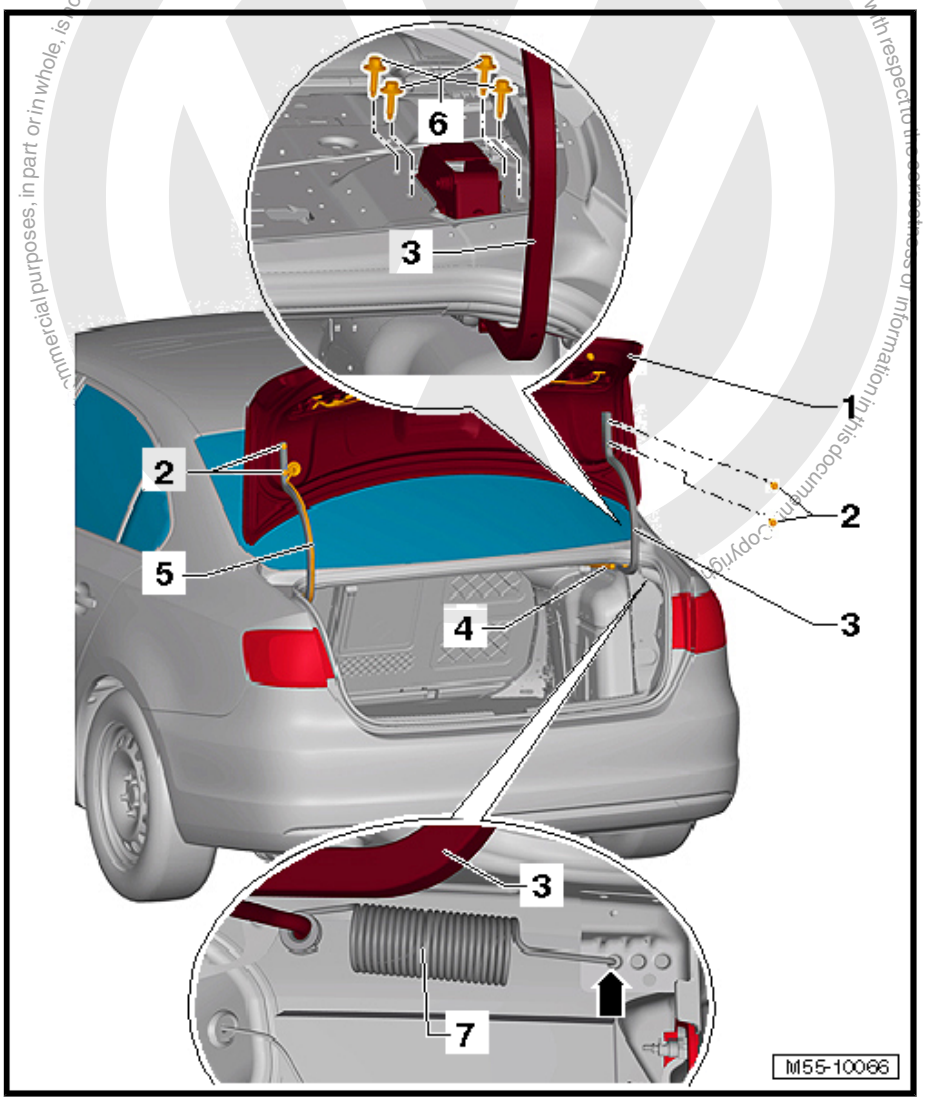
- ❑ Tightening specification: 9 Nm
- ❑ Quantity: 2 per hinge

3 - Hinge

- ❑ Removing and installing. Refer to ⇒ “2.8 Rear Lid Hinge, Removing and Installing”, page 62 .
- ❑ Removing and installing the hinge cover. Refer to ⇒ “2.9 Hinge Cover, Removing and Installing”, page 64 .

4 - Gas-Filled Strut

- ❑ Removing and installing. Refer to ⇒ “2.5 Gas-Filled Strut, Removing and Installing”, page 58 .
- ❑ Venting. Refer to ⇒ “2.6 Gas-Filled Strut, Venting”, page 61 .



5 - Wire

- ❑ Clipped to the hinge

6 - Bolt

- ❑ Tightening specification: 9 Nm
- ❑ Quantity: 4 on each hinge

7 - Spring

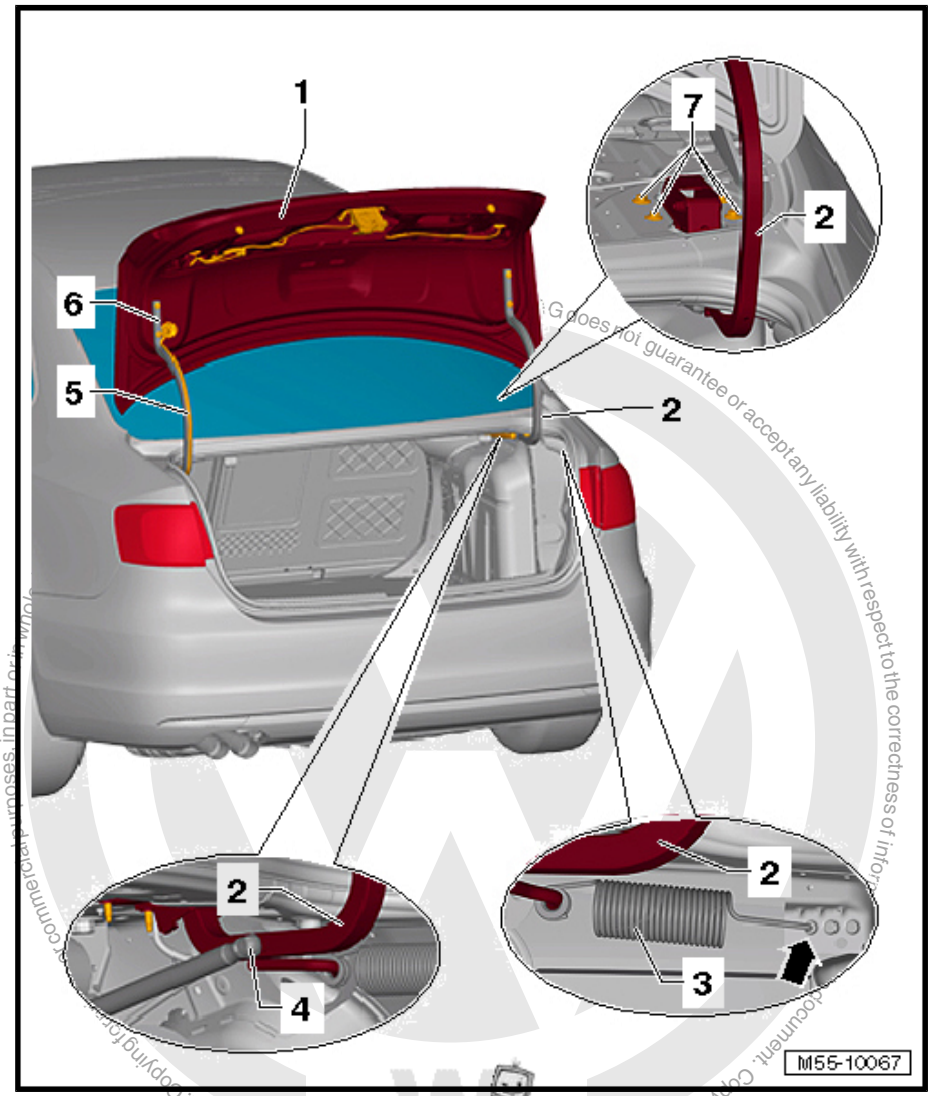
- ❑ Left and right
- ❑ Engaged in the left hole -arrow-

2.8 Rear Lid Hinge, Removing and Installing

⇒ “2.8.1 Removing”, page 62

⇒ “2.8.2 Installing”, page 63

2.8.1 Removing



Perform the following:

– Remove the rear lid -1-. Refer to
⇒ “2.3 Rear Lid, Removing and Installing”, page 57 .

If removing the left hinge -6-:

– Remove the wire -5- from the left hinge -6-.

If removing the right hinge -2-:

– Remove the gas-filled strut -4- from the ball stud on the right hinge -2-. Refer to
⇒ “2.5 Gas-Filled Strut, Removing and Installing”, page 58 .

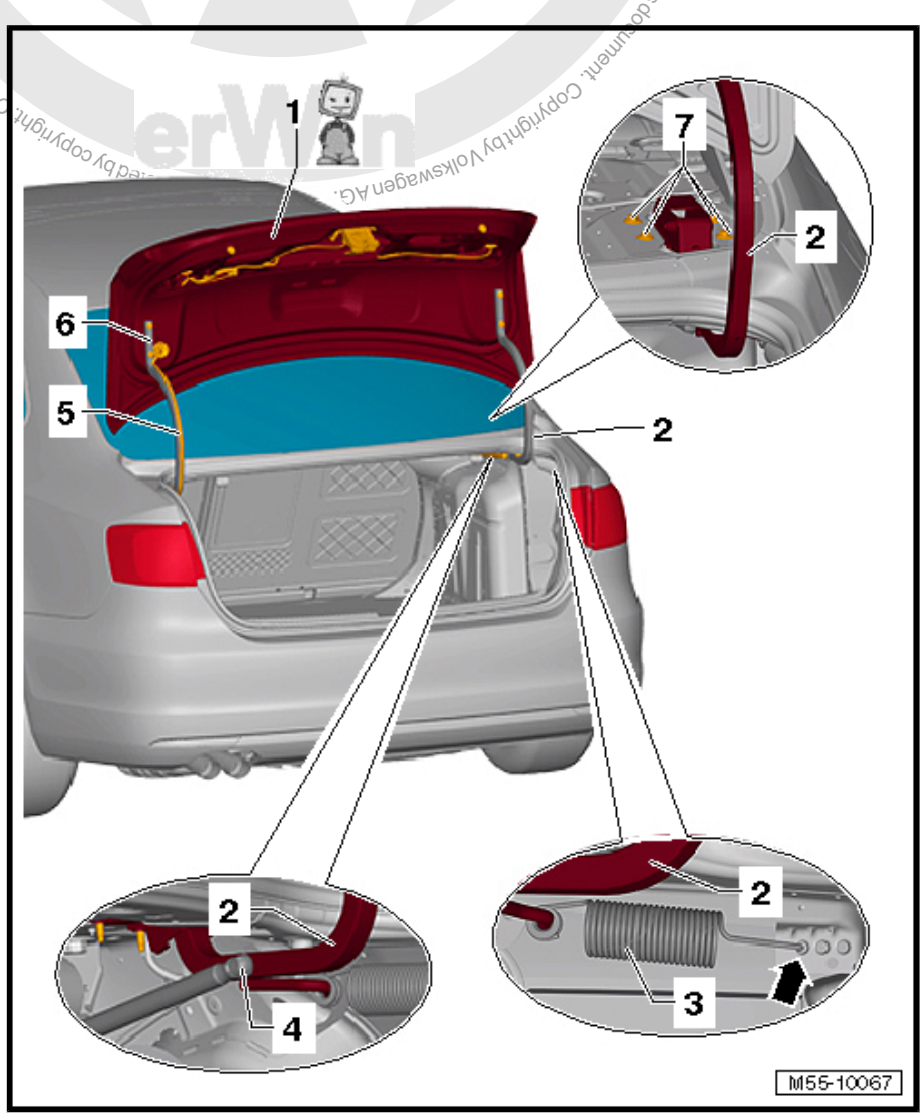
Continuation for both hinges:

– Disengage the spring -3- -arrow- and remove it from the hinge.

– Remove the rear shelf. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels; Rear Shelf, Removing and Installing .

– Remove the bolts -7- and the left hinge -2- and the right hinge -6-.

2.8.2 Installing



Perform the following:

Install in reverse order of removal.

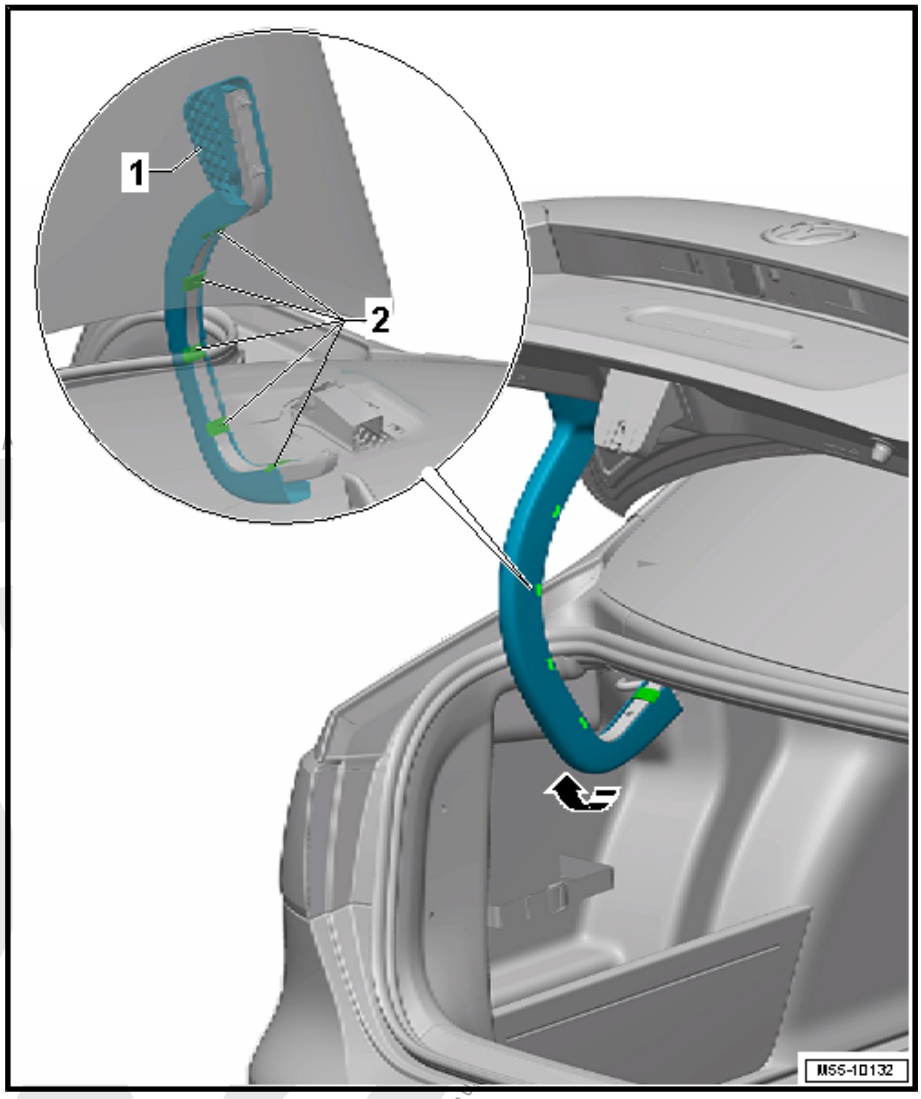
Bolt tightening specification -7-: 9 Nm

– Adjust the rear lid. Refer to
⇒ “2.11 Rear Lid, Adjusting”, page 65 .

2.9 Hinge Cover, Removing and Installing

Note

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



Removing

– If equipped, remove the left and right cover -1- from the hinge.

– To do this release the locking mechanism -2- on the cover -1-.

– Remove the cover -1- in the direction of the -arrow- from the hinge.

Installing

Install in reverse order of removal.

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2.10 Striker, Removing and Installing

⇒ “2.10.1 Removing”, page 65

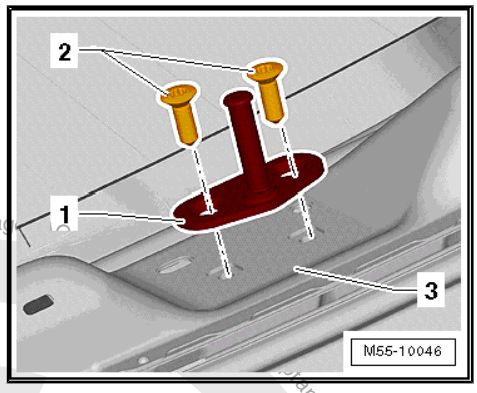
⇒ “2.10.2 Installing”, page 65

2.10.1 Removing

Perform the following:

– Remove the cover for the striker inside the lock carrier cover.

– Remove the bolts -2- and remove the striker -1- from the lock carrier -3-.



2.10.2 Installing

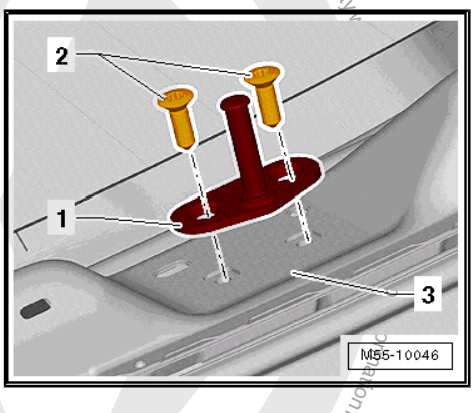
Perform the following:

– Install the striker -1- on the lock carrier -3- with the bolts-2-.

Tightening specification for the bolts -2-: 18 Nm

– Adjust the striker. Refer to ⇒ “2.11.1 Striker, Adjusting”, page 67 .

– Install the cover for the striker inside the lock carrier cover.



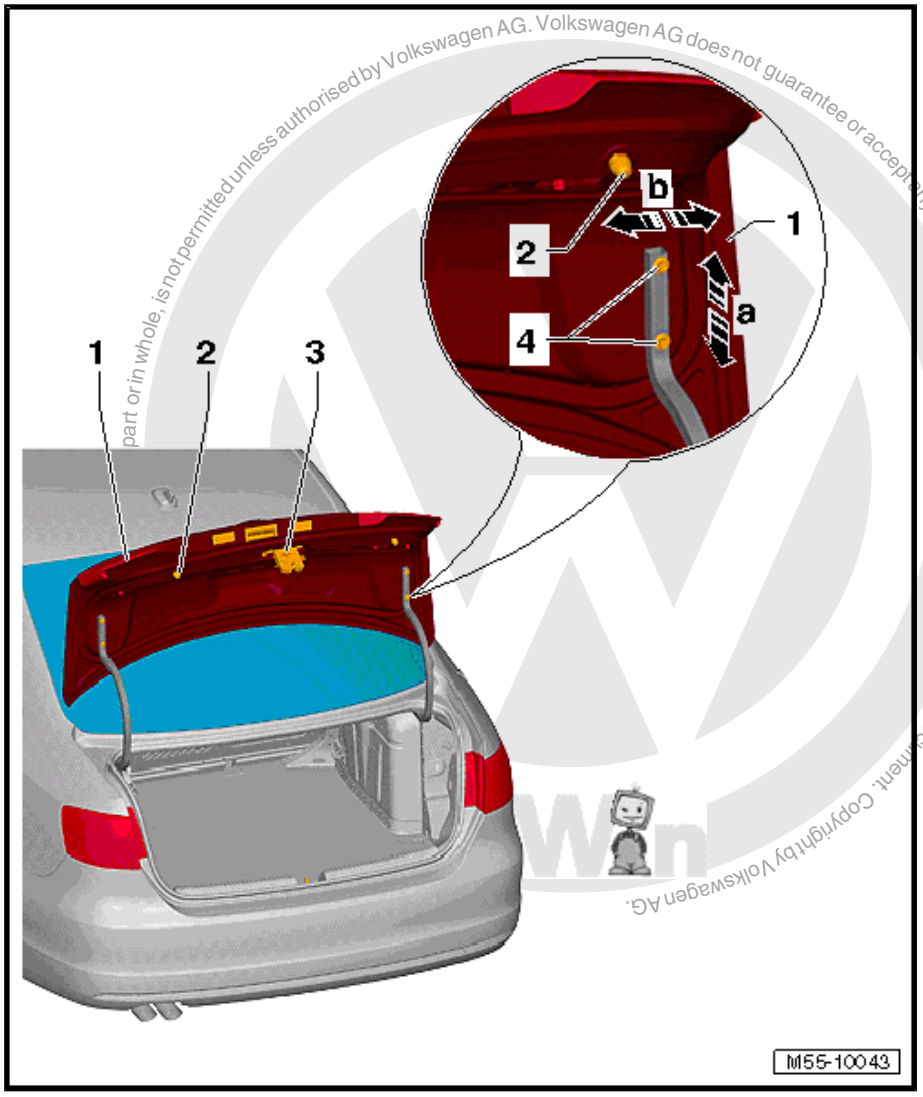
2.11 Rear Lid, Adjusting

⇒ “2.11.1 Striker, Adjusting”, page 67

Note

- *The vehicle must be on all four wheels when adjusting the rear lid.*
- *The latch -3- is bolted directly to the rear lid -1-. It does not have any oblong holes so it cannot be adjusted.*
- *The left and right adjusting buffers -2- are not meant for adjusting. Their function is to stabilize and to cushion the rear lid -1-.*
- *The rear lid 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 rear lid must engage in the striker without great force.*

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Perform the following:

To adjust or check the gap dimensions, use the Gauge - Gap Adjustment - 3371- . Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions; Body, Rear .

– If equipped, remove the left and right hinge cover. Refer to ⇒ “2.9 Hinge Cover, Removing and Installing”, page 64 .

– Loosen the bolts -4- and adjust the rear lid -1- in the oversized holes on the hinge -a arrows- and -b arrows-.

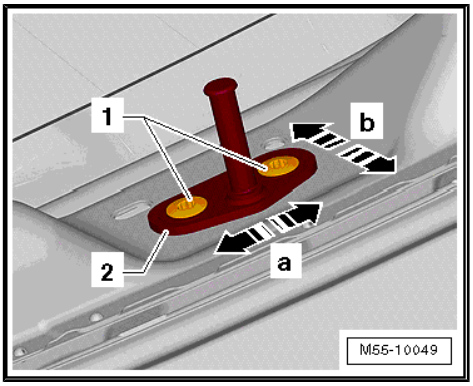
Bolt tightening specification -4-: 9 Nm

– After adjusting, apply a corrosion protection to the hinge and bolts.

– Adjust the adjusting buffer -2- by turning it.

– Adjust the rear lid -1- on the striker. Refer to ⇒ “2.11.1 Striker, Adjusting”, page 67 .

2.11.1 Striker, Adjusting



Note

- *Loosen the bolts -1- and move the striker -2- inside the oversized holes -a arrows and b arrows-.*
- *Adjust the striker -2- so that the recess for the rear lid lock engages with the center of the striker -2-.*

Perform the following:

– Remove the cover for the striker inside the lock carrier cover.

– Loosen the bolts -1-.

– Move the catch -2- into the upper position and tighten the bolts -1-.

– Lock the rear lid and check the adjustment.

Tightening specification for the bolts -1-: 18 Nm

2.12 Rear Lid Handle Unlock Switch - E234- , Removing and Installing

⇒ “2.12.1 Removing”, page 67

⇒ “2.12.2 Installing”, page 67

2.12.1 Removing

Perform the following:

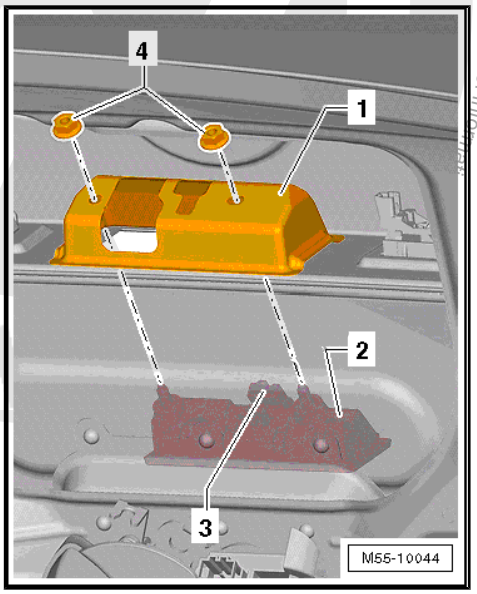
– Remove the trim panel from the rear lid. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Rear Lid Trim Panel, Removing and Installing .

– Disconnect the connector -3- from the button -2-.

– Remove the nuts -4- from the threaded pins on the Release Button in Rear Lid Handle - E234- and remove the cover -1-.

– Remove the button -2- from the rear lid.

In case of an electrical malfunction, the rear lid can be opened using the latch emergency release. Refer to ⇒ “2.13 Latch, Removing and Installing”, page 68 . The emergency release is reached through an opening in the rear lid trim.



2.12.2 Installing

Perform the following:

Install in reverse order of removal.

Nut tightening specification: 6 Nm

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- Perform a function test on the unlocking components before closing the rear lid.

2.13 Latch, Removing and Installing

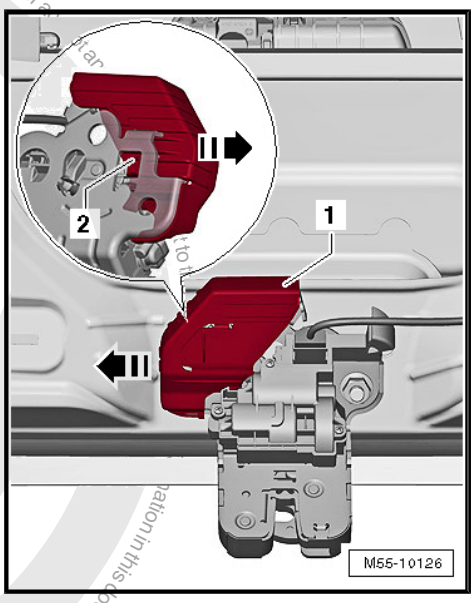
⇒ “2.13.1 Removing”, page 68

⇒ “2.13.2 Installing”, page 69

2.13.1 Removing

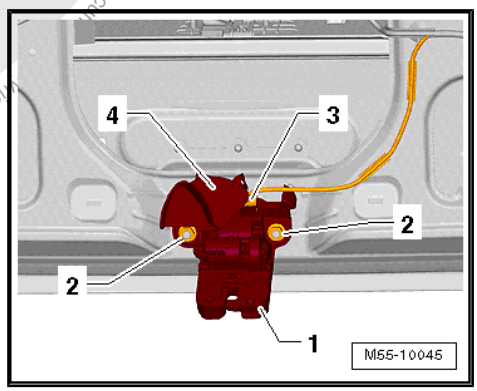
– Remove the cap -1- in the direction of the arrow, if equipped.

– Release the tab -2- to do so.



Note

- *If the rear lid does not open, use the emergency release -4- inside the rear lid trim panel to open it manually. Refer to the Owner's Manual.*
- *The emergency release -4- is only installed in certain markets.*



Perform the following:

– Remove the trim panel from the rear lid. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Rear Lid Trim Panel, Removing and Installing .

– Disconnect the connector -3- from the latch -1-.

– Remove the nuts -2- and the rear lid latch -1-.

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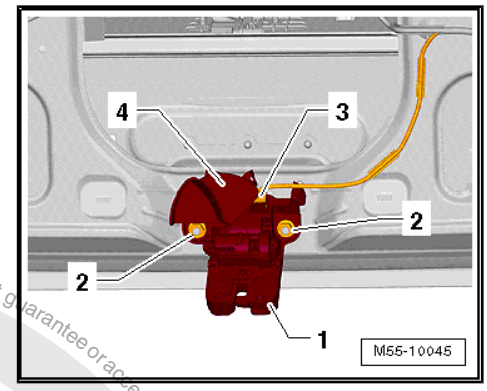
2.13.2 Installing

Perform the following:

– Install the rear lid latch -1- and tighten the nuts -2-.

Nut tightening specification -2-: 23 Nm

– Connect the connector -3- to the latch -1-.

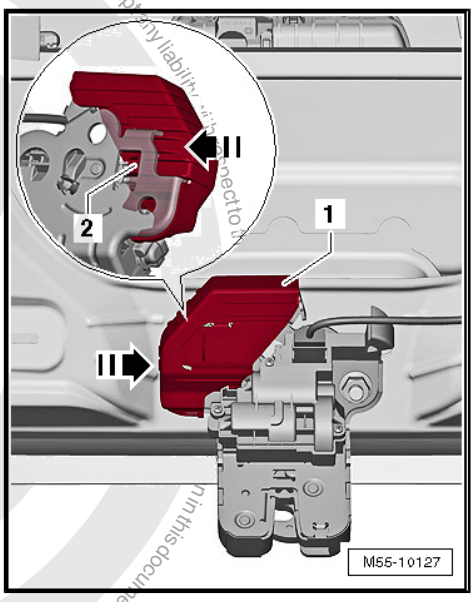


– Remove the cap -1- in the direction of the arrow, if equipped.

– Release the tab -2- to do so.

– Install the trim panel from the rear lid. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels; Rear Lid Trim Panel, Removing and Installing .

• Perform a function test on the unlocking components before closing the rear lid.



2.14 Rear Lid Seal

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

Note

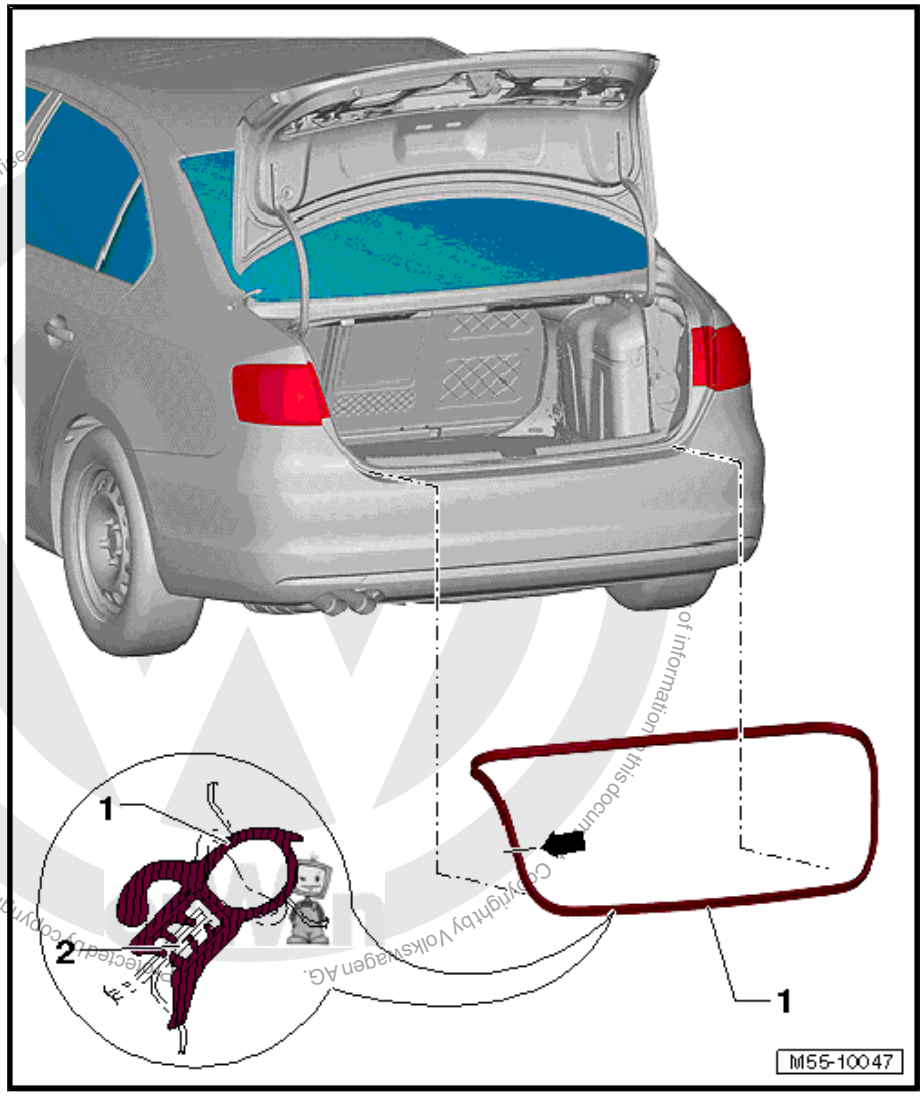
- *When the seal is removed, the sealant spreads on the inner side of the seal and the sides bend up slightly. If the seal is being installed again, the sealing performance and proper seating are no longer guaranteed.*
- *For this reason, every seal that has been removed completely must be replaced with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

2.15 Rear Lid Seal, Removing and Installing

⇒ “2.15.1 Removing”, page 69

⇒ “2.15.2 Installing”, page 71

2.15.1 Removing



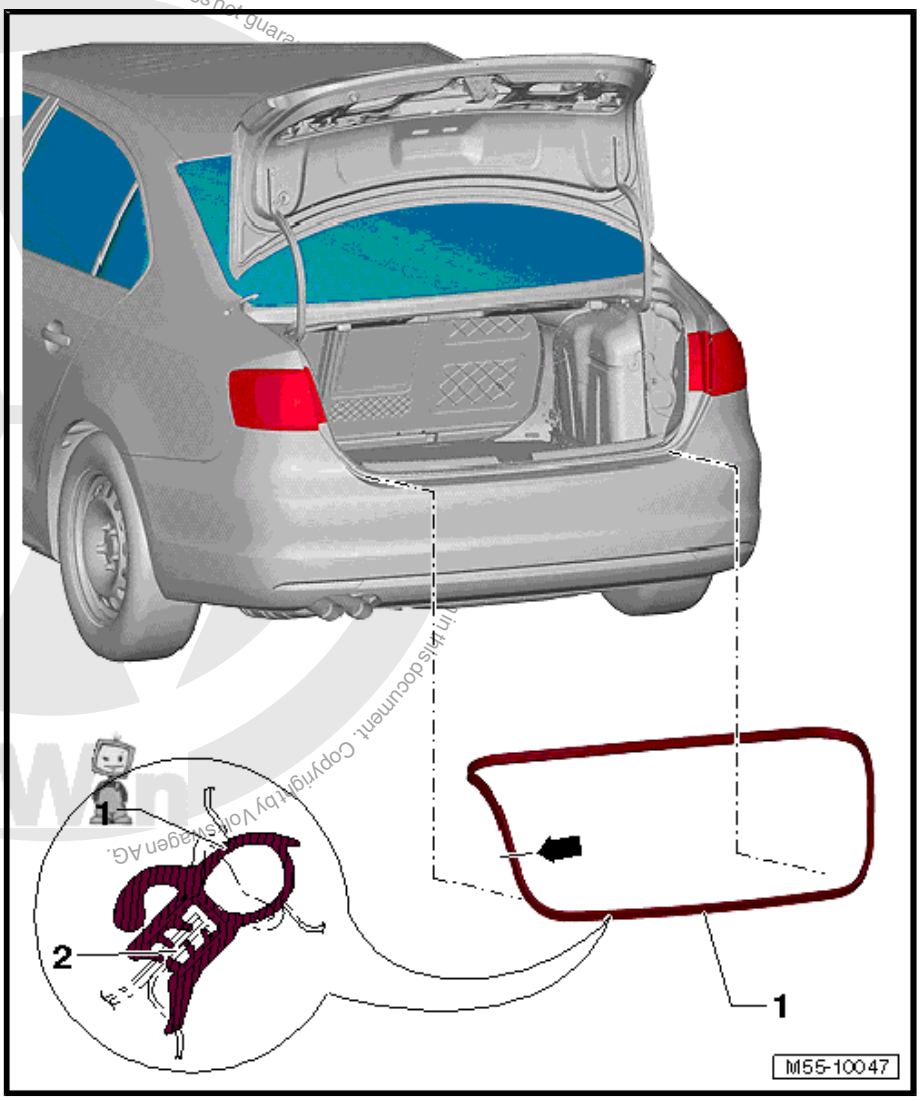
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Perform the following:

– Remove the rear lid seal -1- from the body flange -2-.

2.15.2 Installing

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Perform the following:

– Align the rear lid seal -1- with the vulcanized point -arrow- on the left tail lamp.

– Press the seal -1- onto the body flange -2- evenly.

2.16 License Plate Holder

Note

- *The license plate holder is not installed on all models for all markets.*
- *The license plate holder can have different sizes depending on the market.*

1 - Pop Rivet Nut

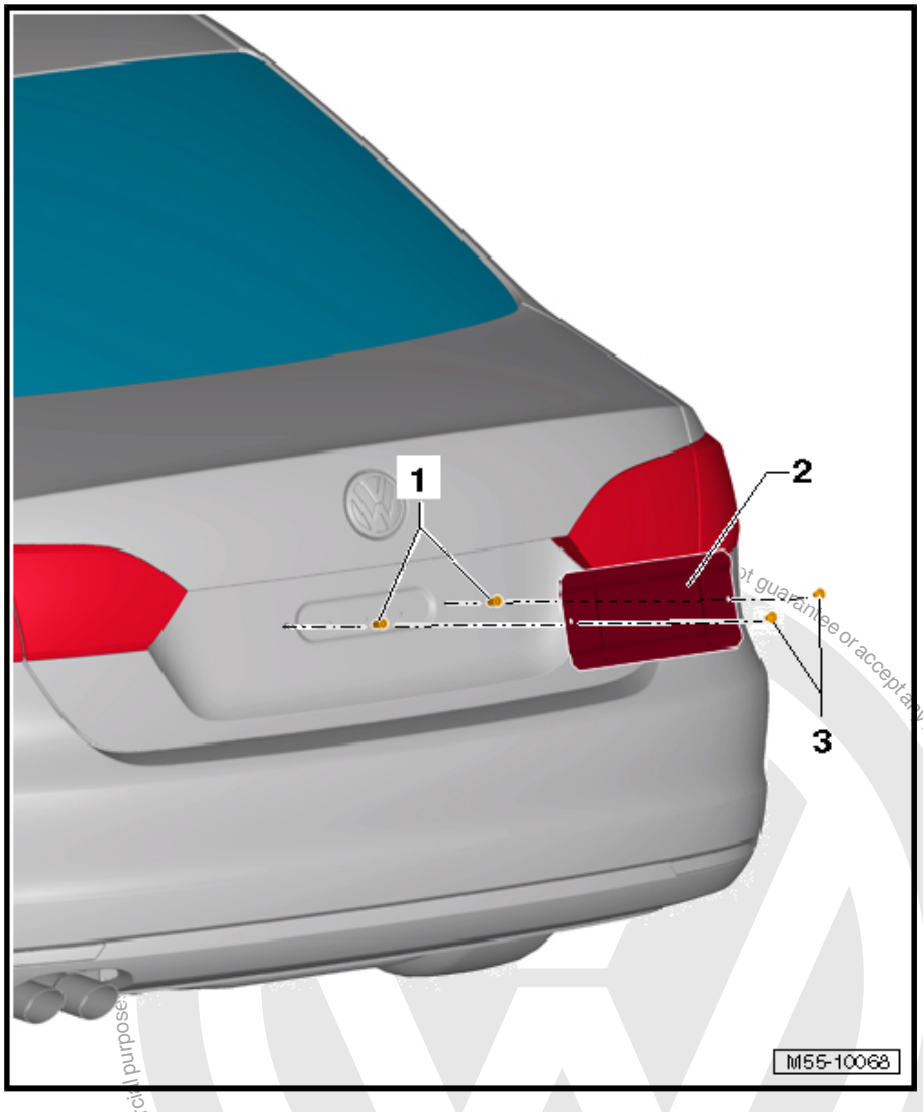
- ❑ Quantity: 2

2 - License Plate Holder

- ❑ Allocation. Refer to the Parts Catalog.

3 - Screw

- ❑ Tightening specification: 4 Nm.
- ❑ Quantity: 2



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3 Fuel Filler Door Unit

⇒ “3.1 Tools”, page 73

⇒ “3.2 Overview - Fuel Filler Door Unit”, page 73

⇒ “3.3 Fuel Filler Door Unit, Removing and Installing”, page 74

⇒ “3.4 Fuel Filler Door Unlock Motor V155 , Removing and Installing”, page 76

3.1 Tools

Special tools and workshop equipment required

- Trim Removal Wedge - 3409-
- Wrench - Driver - T10072-

3.2 Overview - Fuel Filler Door Unit

1 - Connector

- For the Fuel Filler Door Unlock Motor - V155-

2 - Fuel Filler Door Unlock Motor - V155-

- Removing and installing. Refer to ⇒ “3.4 Fuel Filler Door Unlock Motor V155 , Removing and Installing”, page 76 .

3 - Fuel Filler Door Unit

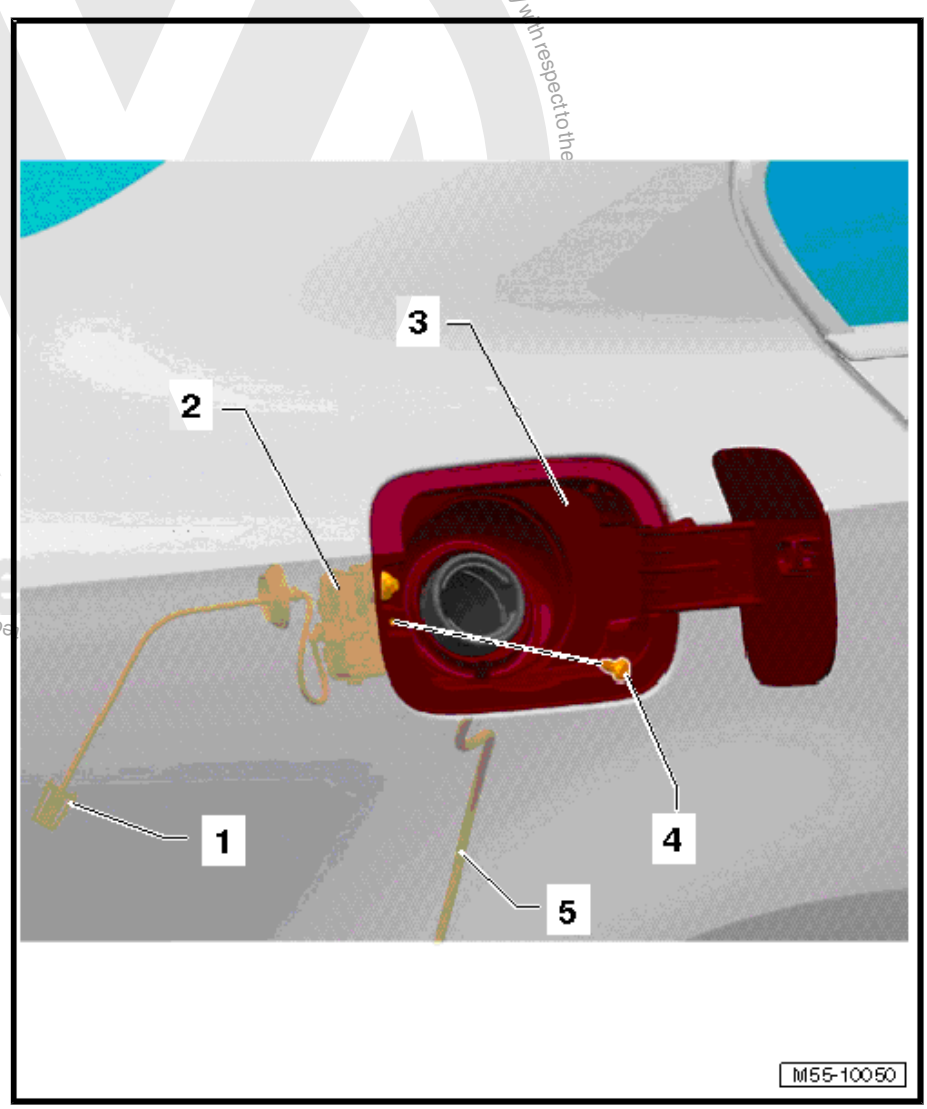
- Removing and installing. Refer to ⇒ “3.3 Fuel Filler Door Unit, Removing and Installing”, page 74 .

4 - Screw

- Tightening specification: 1.5 Nm

5 - Water Drain Hose

- Routed between the wheel housing and the wheel housing liner



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3.3 Fuel Filler Door Unit, Removing and Installing

⇒ “3.3.1 Removing”, page 74

⇒ “3.3.2 Installing”, page 74

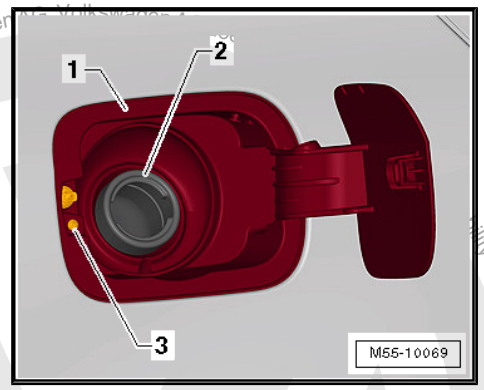
3.3.1 Removing

Perform the following:

– Remove the fuel filler cap.

– Roll the rubber grommet for the fuel filler door unit -1- off the fuel tank filler neck -2-.

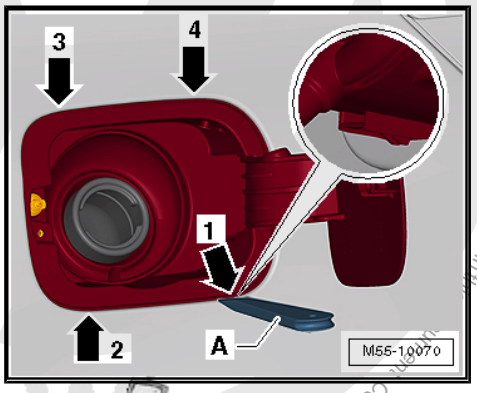
– Remove the bolt -3-.



– Retainer the retainer on bottom of the fuel filler door unit -arrow 1- on the right side using the Trim Removal Wedge - 3409- -A-.

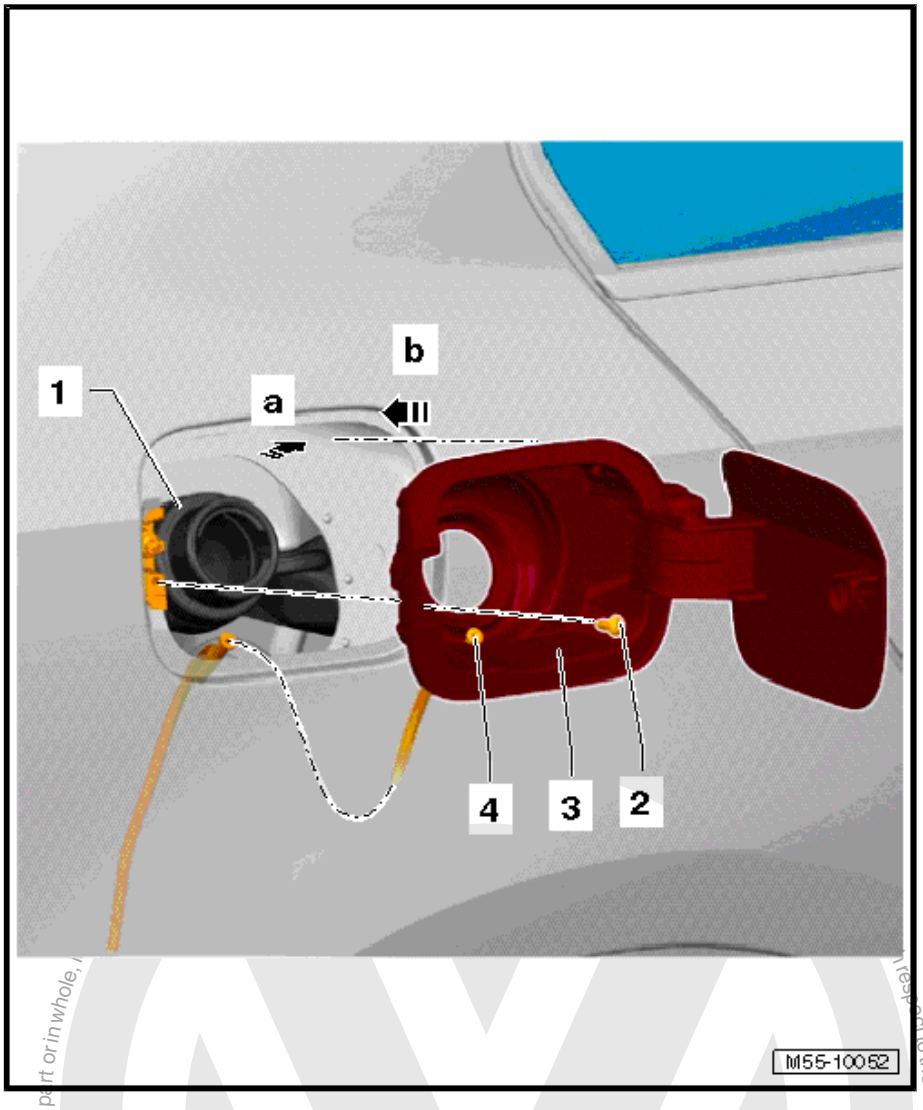
– Unlock the rest of the retainers using the Trim Removal Wedge - 3409- in the specified sequence: -arrows 2 through 4-.

– Remove the fuel filler door unit and the water drain hose from the side panel.



3.3.2 Installing

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Perform the following:

– Insert the water drain hose -4- through opening in tank flap unit -3- and pull it through until it stops.

– Insert the water drain hose -4- between the wheel housing and the wheel housing liner in the side panel.

– Pivot the fuel filler door unit -3- starting on the hinge side into the side panel -arrow a-.

– Push the fuel filler door unit into the side panel -arrow b-. Make sure the hooks latch properly into the side panel.

– Tighten the bolt -2-.

Screw tightening specification -2-: 1.5 Nm

– Pull the rubber grommet -3- over the fuel tank filler neck -1-.

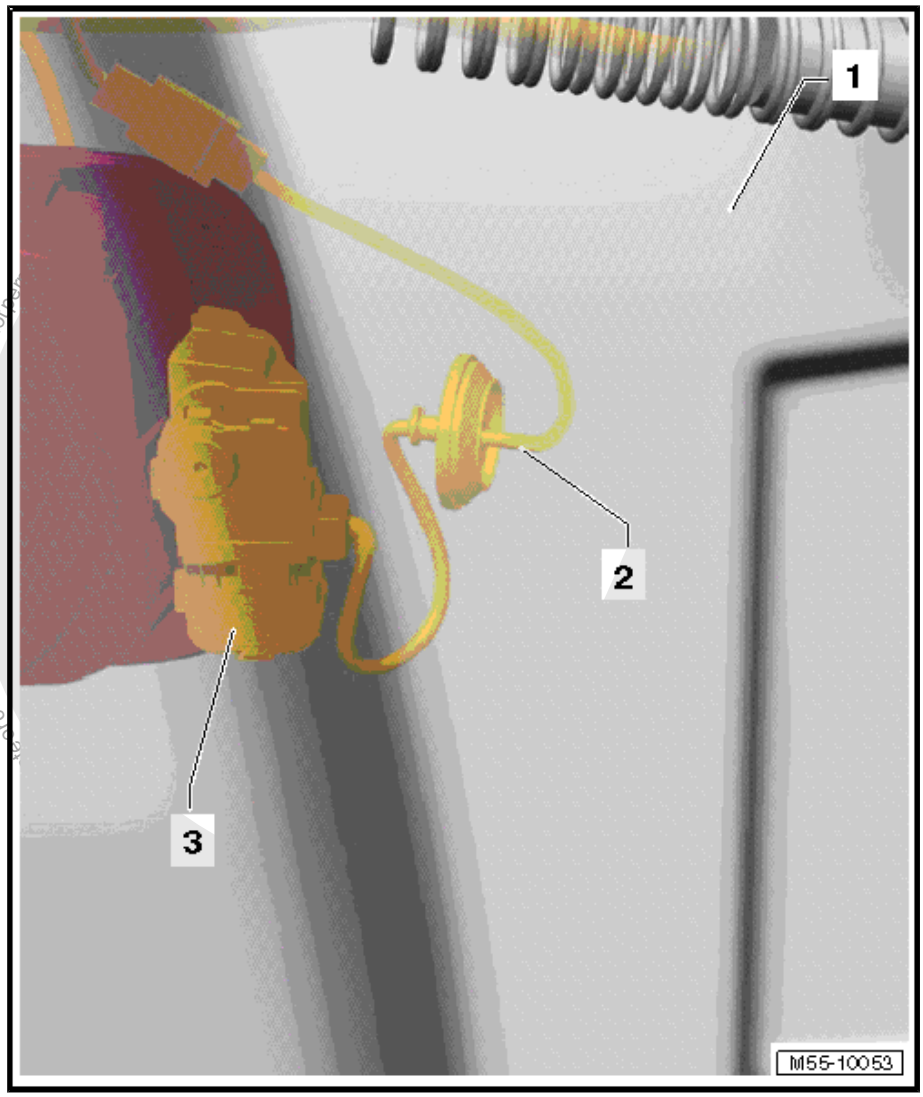
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3.4 Fuel Filler Door Unlock Motor - V155- , Removing and Installing

⇒ “3.4.1 Removing”, page 76

⇒ “3.4.2 Installing”, page 77

3.4.1 Removing



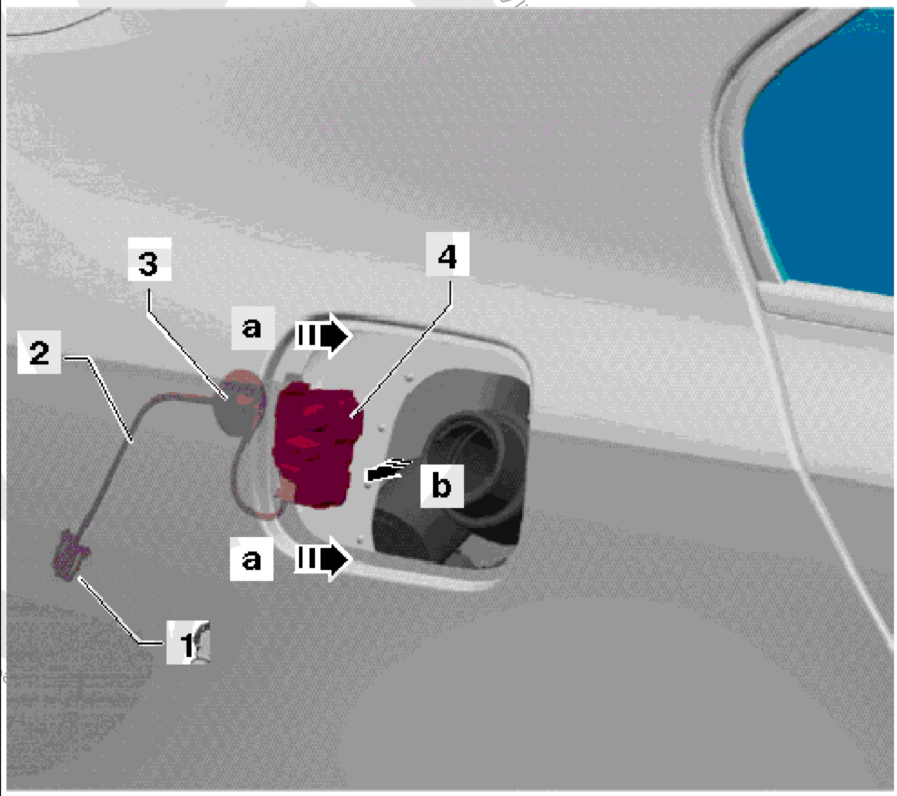
...commercial purposes, in part or in whole, is not per...

Perform the following:

– Loosen the right luggage compartment trim panel -1- at the top until the connector -2- is accessible. Do not remove the luggage compartment trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels .

– Disconnect the connector -2- from the Fuel Filler Door Unlock Motor - V155- -3-.

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– Remove the fuel filler door unit. Refer to ⇒ “3.3 Fuel Filler Door Unit, Removing and Installing”, page 74 .
– Remove the rubber grommet -3- from the side panel and remove the wiring harness -2- and connector -1- from the side panel.
– Pull the Fuel Filler Door Unlock Motor - V155- -4- in the direction of the -arrow a- and remove it -arrow b-.

3.4.2 Installing

Perform the following:

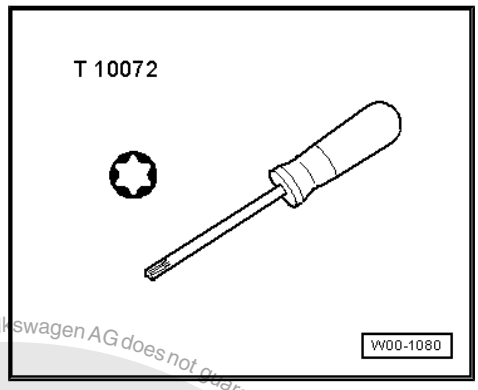
Install in reverse order of removal.

– Make sure the grommet and the connector are seated correctly.
– Install the fuel filler door unit. Refer to ⇒ “3.3 Fuel Filler Door Unit, Removing and Installing”, page 74 .
– Attach the right luggage compartment trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Luggage Compartment Trim Panels .
• Perform a function test of all the unlocking components.

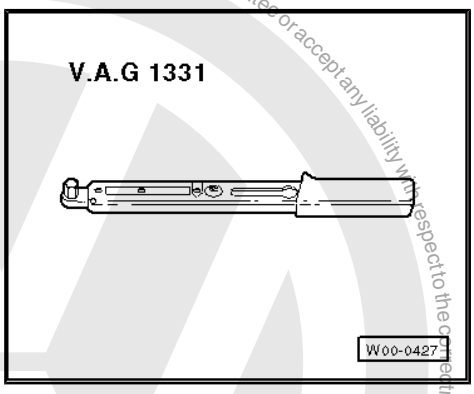
4 Special Tools

Special tools and workshop equipment required

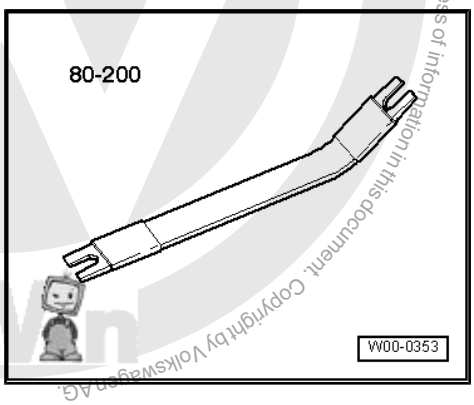
- Wrench - Driver - T10072-



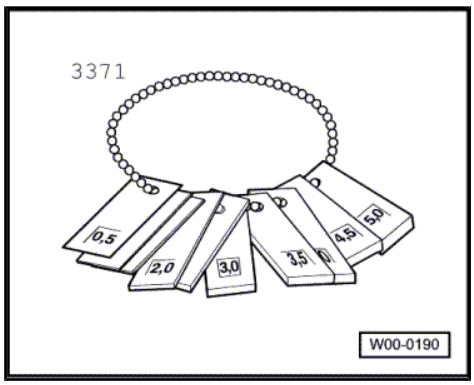
- Torque Wrench 1331 5-50Nm - VAG1331-



- Pry Lever - 80 - 200-

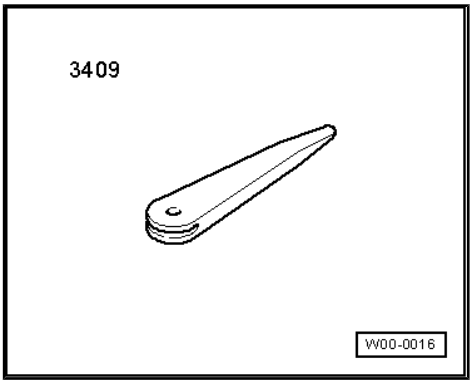


- Gauge - Gap Adjustment - 3371-



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- Trim Removal Wedge - 3409-



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57 – Front Doors, Central Locking System

1 Front Door

⇒ “1.1 Tools”, page 80
⇒ “1.2 Overview - Door Hinges”, page 80
⇒ “1.3 Door, Removing and Installing”, page 82
⇒ “1.4 Installing after Replacing the A-Pillar”, page 85
⇒ “1.5 Door Adjustment”, page 86

1.1 Tools

Special tools and workshop equipment required

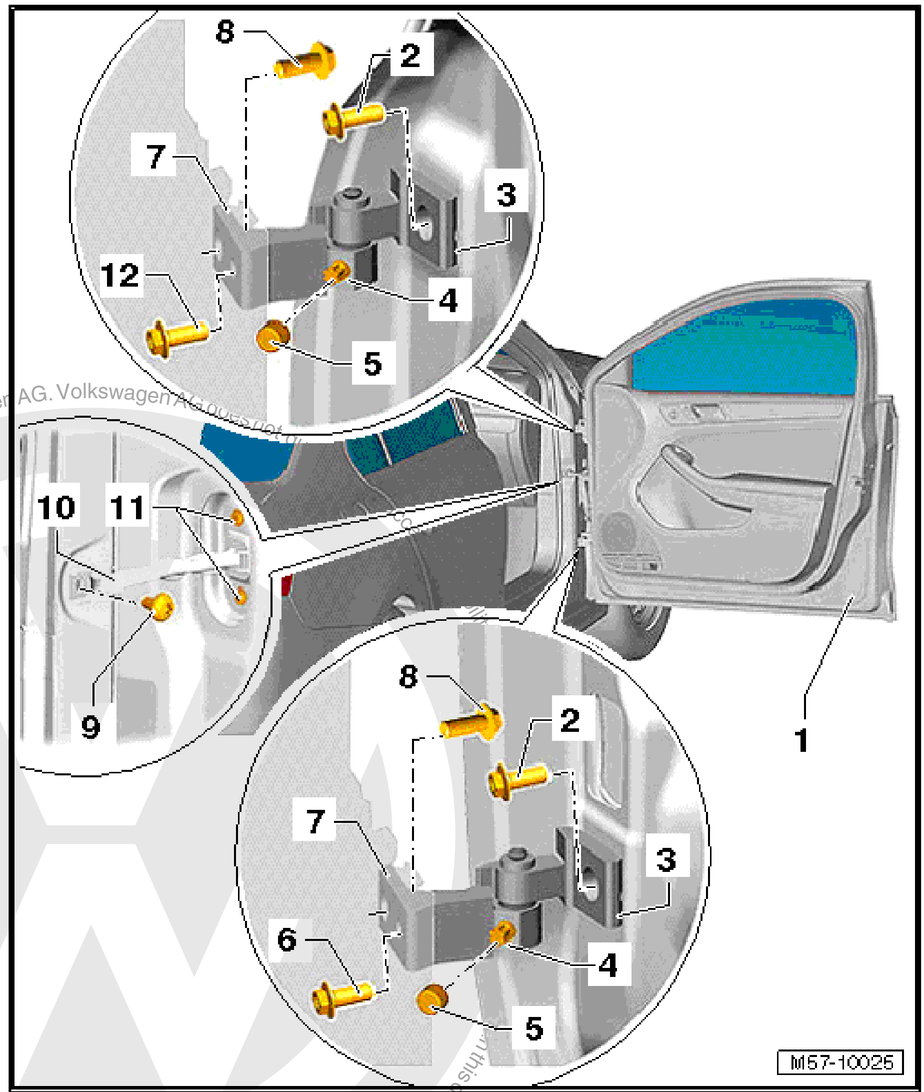
- Wrench - Door Adjusting - 3320-
- Door Adjusting Wrench - Joint - 3320/1-
- Wrench - Door Adjusting - Box Wrench - 3320/2-
- Wrench - Door Adjusting - Box Wrench - 3320/3-
- Cylinder Head Bolt Socket - 3410-
- Gauge - Gap Adjustment - 3371-
- Trim Removal Wedge - 3409-
- Torque Wrench 1331 5-50Nm -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

1.2 Overview - Door Hinges

Note

- *The illustration shows the right side. The left side is identical.*
- *Always replace the door hinge bolts if they have been loosened.*

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1 - Door

- ❑ Removing and installing. Refer to ⇒ “1.3 Door, Removing and Installing”, page 82 .
- ❑ Refer to ⇒ “1.5 Door Adjustment”, page 86 for adjusting.

2 - Bolt

- ❑ Tightening specification: 40 Nm
- ❑ Always replace. It is permitted to loosen the bolt just one time when adjusting the door.

3 - Door Hinge

- ❑ The hinge has two sections.
- ❑ A bolt -4- attaches the upper section to the lower section.

4 - Bolt

- ❑ Tightening specification: 23 Nm.
- ❑ Attaches the upper section -3- to the lower section -7-

5 - Cap

- ❑ Place over the bolt -4-

6 - Bolt

- ❑ Tightening specification: 40 Nm
- ❑ Always replace. It is permitted to loosen the bolt just one time when adjusting the door.
- ❑ Installed from the vehicle interior
- ❑ The A-pillar lower trim must be removed for removing and installing. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels .
- ❑ Follow the tightening specifications after replacing the A-pillar. Refer to ⇒ “1.4 Installing after Replacing the A-Pillar”, page 85 .

7 - Door Hinge

- ❑ The hinge has two sections.
- ❑ A bolt -4- attaches the lower section to the upper section.

8 - Bolt

- ❑ Tightening specification: 40 Nm
- ❑ Always replace. It is permitted to loosen the bolt just one time when adjusting the door.
- ❑ Follow the tightening specifications after replacing the A-pillar. Refer to ⇒ “1.4 Installing after Replacing the A-Pillar”, page 85 .

9 - Bolt

- ❑ Tightening specification: 30 Nm

10 - Door Strap

- ❑ Removing and installing. Refer to ⇒ “2.4 Door Strap, Removing and Installing”, page 92 .

11 - Bolt

- ❑ Tightening specification: 9 Nm

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- ❑ Quantity: 2

12 - Bolt

- ❑ Tightening specification: 40 Nm
- ❑ Always replace. It is permitted to loosen the bolt just one time when adjusting the door.
- ❑ Installed from the vehicle interior
- ❑ To remove and install, the instrument panel must be removed. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Instrument Panel; Instrument Panel, Removing and Installing .
- ❑ Follow the tightening specifications after replacing the A-pillar. Refer to ⇒ “1.4 Installing after Replacing the A-Pillar”, page 85 .

1.3 Door, Removing and Installing

⇒ “1.3.1 Removing”, page 82

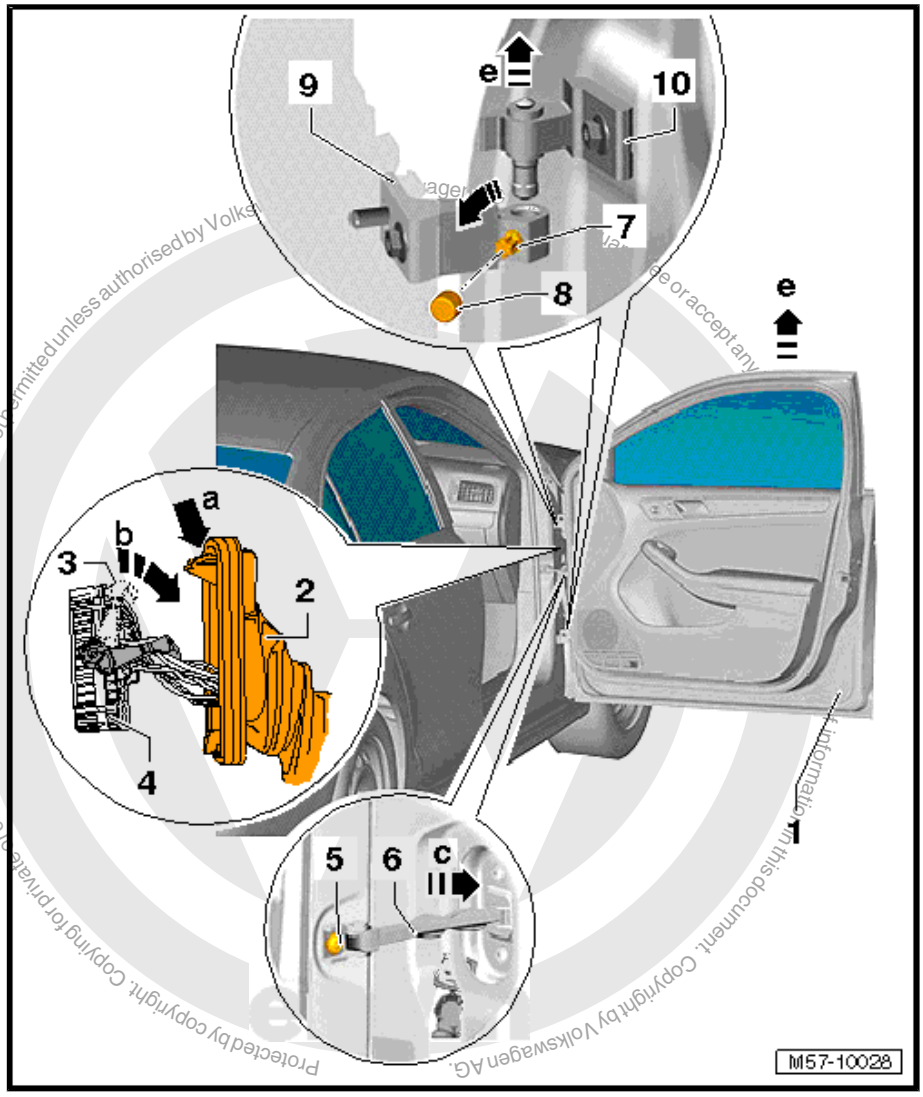
⇒ “1.3.2 Installing”, page 84

1.3.1 Removing

Note

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

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Perform the following:

– Press on the catch -arrow a- and remove the boot -2- from the A-pillar.

– Swing the locking lever -3- downward -arrow b- and disconnect the connector -4- from connector station.

– Remove the caps -8- from the bolts -7-.

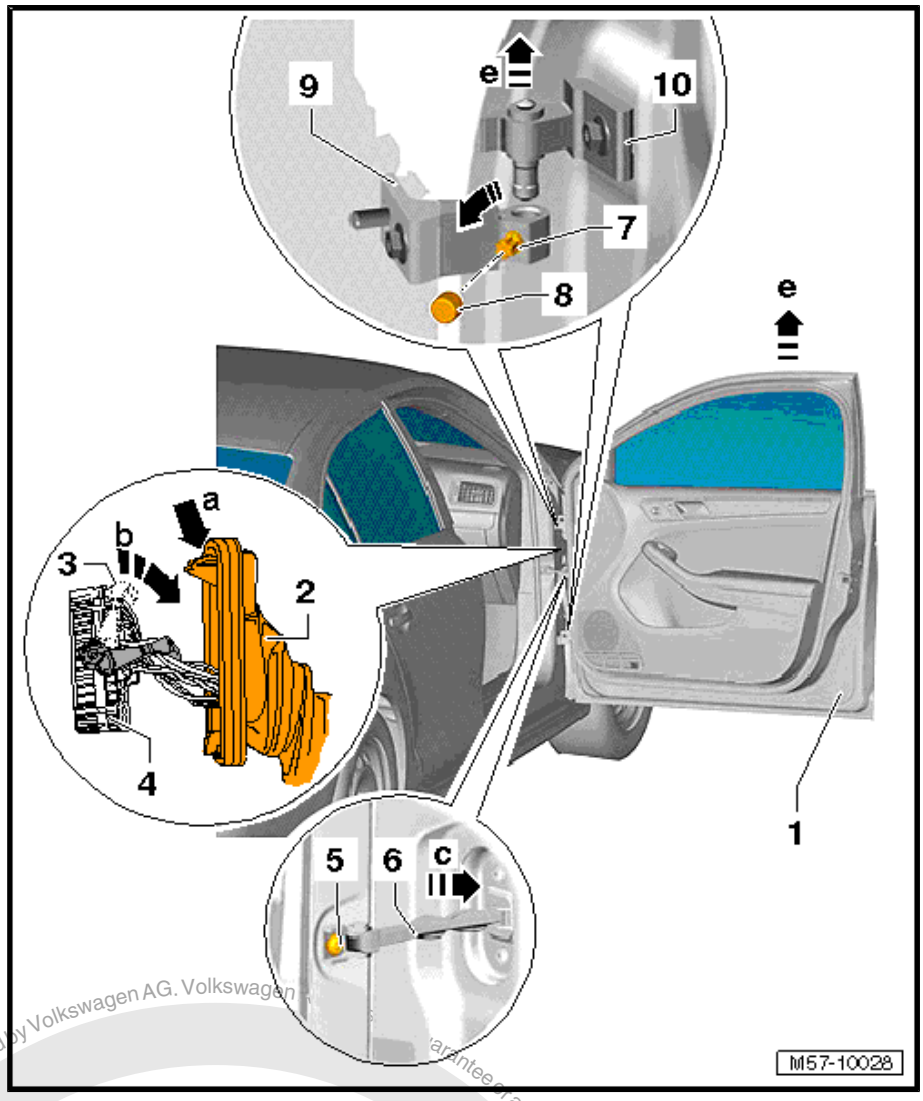
– Loosen the bolts -7- on the hinges -arrow d-.

– Remove the bolt -5- from the door strap -6-.

– Push the door strap -6- toward the inside -arrow c-.

– Lift the door -1- upward -arrow e- out of the hinges -9-.

1.3.2 Installing



Perform the following:

Install in reverse order of removal.

Bolt tightening specification -5-: 30 Nm

Bolt tightening specification -7-: 23 Nm

– Adjust the door. Refer to
⇒ “1.5 Door Adjustment”, page 86 .

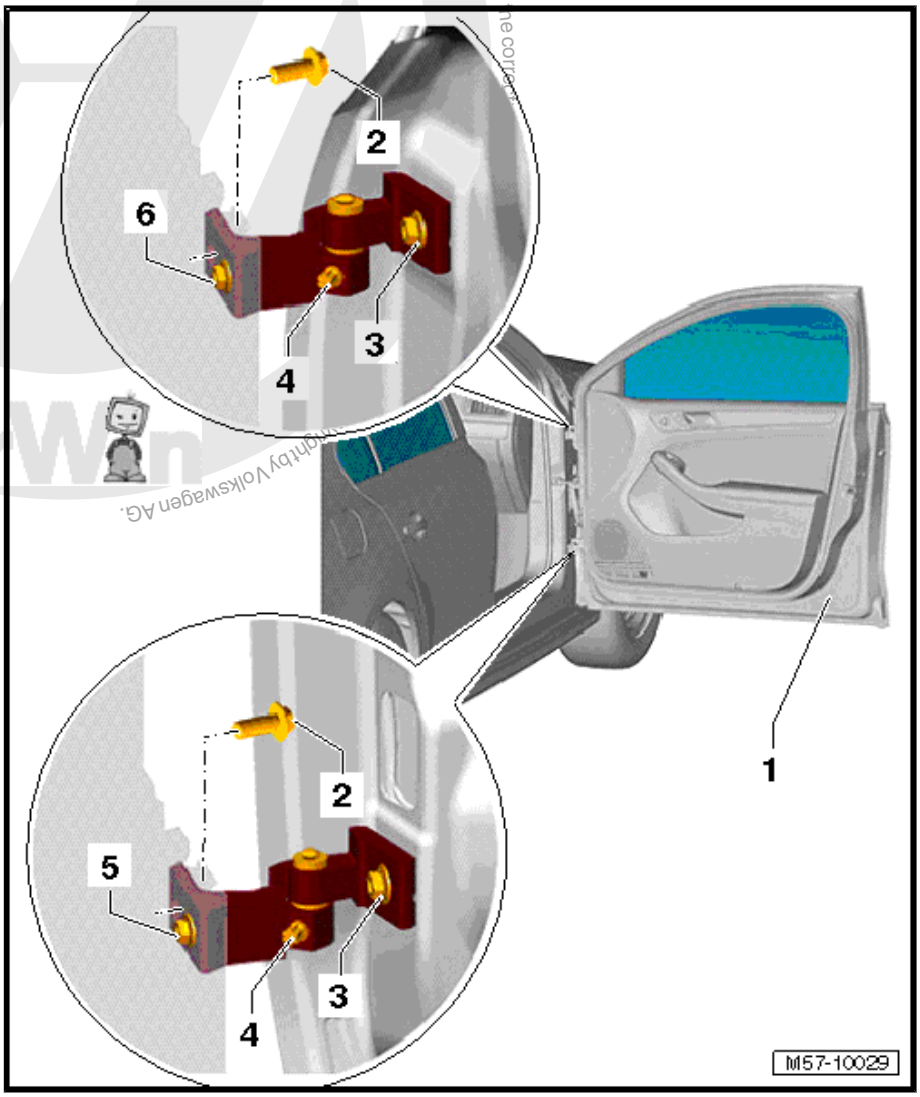
– Make sure the front door gap dimensions are correct. Refer to
⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .

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1.4 Installing after Replacing the A-Pillar

WARNING

If the A-pillar was replaced, then tighten the bolts on the A-pillar exactly as described.



Perform the following:

Install in reverse order of removal.

– Install the door -1- and tighten the bolts -2, 5 and 6- to 20 Nm and 90°.

– Adjust the door. Refer to ⇒ “1.5 Door Adjustment”, page 86 .

– Make sure the front door gap dimensions are correct. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .

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1.5 Door Adjustment

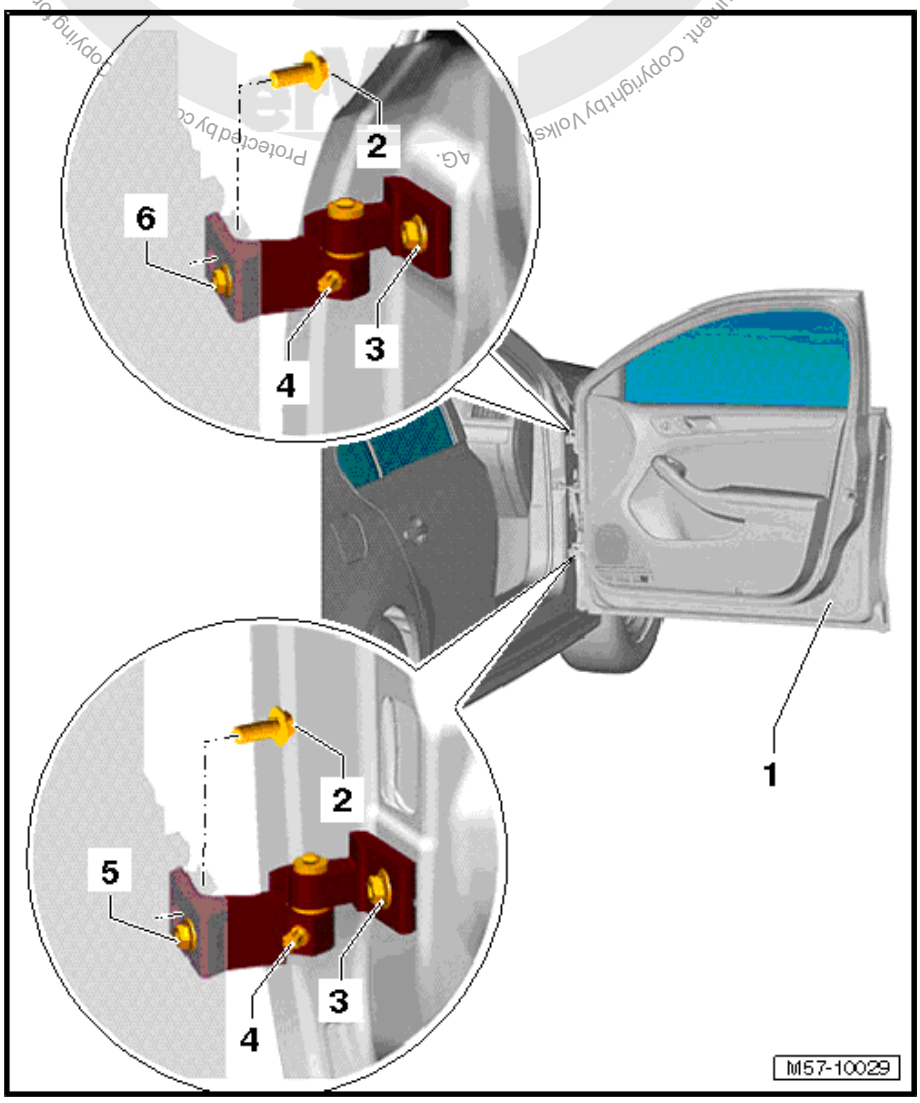
⇒ “1.5.1 Door, Adjusting Gap Dimension and Flush Dimension”, page 86

⇒ “1.5.2 Striker Pin, Adjusting”, page 87

1.5.1 Door, Adjusting Gap Dimension and Flush Dimension

Note

- *The vehicle must standing on all four wheels when adjusting the front door.*
- *The front door is properly adjusted when there is an overall even gap dimension when closed. It is not too far toward the inside or the outside and the contours align.*
- *Checking the gap dimensions. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .*
- *Perform corrosion protection measures on the hinges and the bolts after assembling or adjusting.*



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Perform the following:

Gap Dimensions, Adjusting

It is necessary to loosen the bolts -2, 5 and 6- on the A-pillar in order to adjust the gap dimensions correctly.

– To remove the bolt -5-, the A-pillar lower trim must be removed. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels .

– To remove the bolt -6-, the instrument panel must be removed. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Instrument Panel; Instrument Panel, Removing and Installing .

Flush Dimension Adjustment

The bolts -3- must be loosened in order to adjust the flush dimensions correctly.

Use the Wrench - Door Adjusting - 3320- with the respective bit for this.

Note

Other measures, such as aligning the door upward, do not work. Pressure later will cause the door to sag again.

Adjust the striker pin. Refer to
⇒ “1.5.2 Striker Pin, Adjusting”, page 87 .

1.5.2 Striker Pin, Adjusting

Note

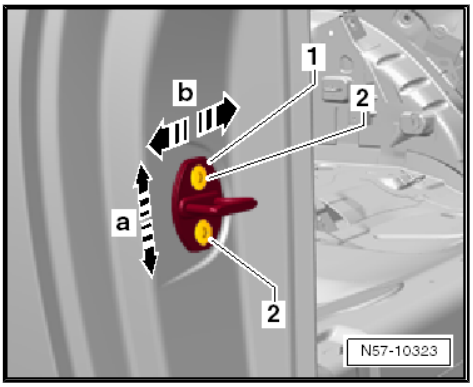
- *The following describes adjusting the right front door. Adjusting the left front door is identical.*
- *When closing, the door must lock completely without applying additional force and it must not have any play.*
- *By adjusting the catch, the door must not be pushed upward or downward.*

The alignment of the front door to the rear door can be adjusted using the striker pin (wind noises).

Perform the following:

– Loosen the bolts -2- on the B-pillar and loosen the striker pin -1-.

– Adjust the door with the striker pin -1- so that the front door lines up with the rear door when it is closed (wind noises) -a arrows and b arrows-.



Note

More force may be needed to move the striker pin -1- when the bolts -2- are loose.

– Tighten the bolts -2- on the striker pin -1-.

Bolt tightening specification -2-: 25 Nm

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2 Door Components

⇒ “2.1 Tools”, page 88

⇒ “2.2 Overview - Front Door”, page 88

⇒ “2.3 Door Cover, Removing and Installing”, page 90

⇒ “2.4 Door Strap, Removing and Installing”, page 92

⇒ “2.5 Striker Pin, Removing and Installing”, page 94

⇒ “2.6 Overview - Door Handle and Door Lock”, page 95

⇒ “2.7 Lock Cylinder Cap, Removing and Installing”, page 97

⇒ “2.8 Lock Cylinder, Removing and Installing”, page 98

⇒ “2.9 Cap without Lock Cylinder, Removing and Installing”, page 101

⇒ “2.10 Door Handle, Removing and Installing”, page 103

⇒ “2.11 Door Lock, Removing and Installing”, page 106

⇒ “2.12 Mounting Bracket, Removing and Installing”, page 109

⇒ “2.14 Outer Window Shaft Seal, Removing and Installing”, page 114

⇒ “2.16 Outer Door Seal, Removing and Installing”, page 119

⇒ “2.17 Overview - Insulation”, page 121

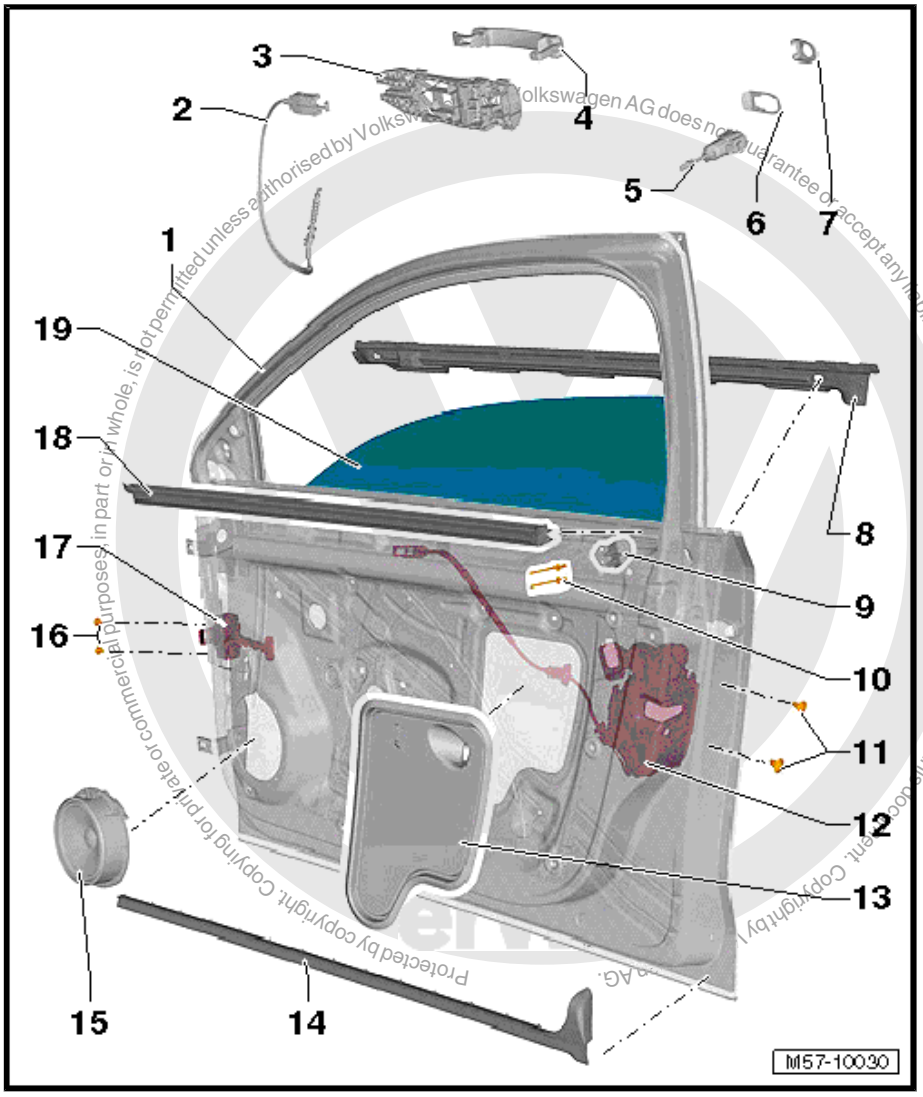
2.1 Tools

Special tools and workshop equipment required

- Roller - 3356-
- Trim Removal Wedge - 3409-
- Cylinder Head Bolt Socket - 3410-
- Torque Wrench 1331 5-50Nm - VAG1331-
- Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A-
- Adhesive Strip Remover - VAS6349-

2.2 Overview - Front Door

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1 - Door

- ❑ Removing and installing. Refer to ⇒ “1.3 Door, Removing and Installing”, page 82 .
- ❑ Refer to ⇒ “1.5 Door Adjustment”, page 86 for adjusting.

2 - Cable

- ❑ From the mounting bracket -3- to the door lock -12-
- ❑ Secured to the outer door panel with adhesive tape

3 - Mounting Bracket

- ❑ Removing and installing. Refer to ⇒ “2.12 Mounting Bracket, Removing and Installing”, page 109 .

4 - Door Handle

- ❑ Removing and installing. Refer to ⇒ “2.10 Door Handle, Removing and Installing”, page 103 .

5 - Lock Cylinder

- ❑ Removing and installing. Refer to ⇒ “2.8 Lock Cylinder, Removing and Installing”, page 98 .
- ❑ Not always installed on the front passenger door depending on the optional equipment

6 - Backing Plate

7 - Cap

- ❑ With lock cylinder, removing and installing. Refer to ⇒ “2.7 Lock Cylinder Cap, Removing and Installing”, page 97 .
- ❑ Without the lock cylinder, removing and installing. Refer to ⇒ “2.9 Cap without Lock Cylinder, Removing and Installing”, page 101 .

8 - Outer Window Shaft Seal

- ❑ Removing and installing. Refer to ⇒ “2.14 Outer Window Shaft Seal, Removing and Installing”, page 114 .

9 - Retaining Bracket

- ❑ For attaching the door trim panel

10 - Rivet

- ❑ For the retaining bracket -9-

11 - Bolt

- ❑ Tightening specification: 18 Nm.
- ❑ Quantity: 2

12 - Door Lock

- ❑ Removing and installing. Refer to ⇒ “2.11 Door Lock, Removing and Installing”, page 106 .

13 - Cover

- ❑ Removing and installing. Refer to ⇒ “2.3 Door Cover, Removing and Installing”, page 90 .

14 - Outer Door Seal

- ❑ Removing and installing. Refer to ⇒ “2.16 Outer Door Seal, Removing and Installing”, page 119 .

15 - Speaker

- ❑ Riveted to the door

16 - Bolt

- ❑ Tightening specification: 9 Nm
- ❑ Quantity: 2

17 - Door Strap

- ❑ Removing and installing. Refer to ⇒ “2.4 Door Strap, Removing and Installing”, page 92 .

18 - Inner Window Shaft Seal

- ❑ Removing and installing. Refer to ⇒ “2.13 Inner Window Shaft Seal, Removing and Installing”, page 112 .

19 - Door Window

- ❑ Removing and installing. Refer to ⇒ “2.3 Door Window, Removing and Installing”, page 222 .

2.3 Door Cover, Removing and Installing

⇒ “2.3.1 Removing”, page 90

⇒ “2.3.2 Installing”, page 92

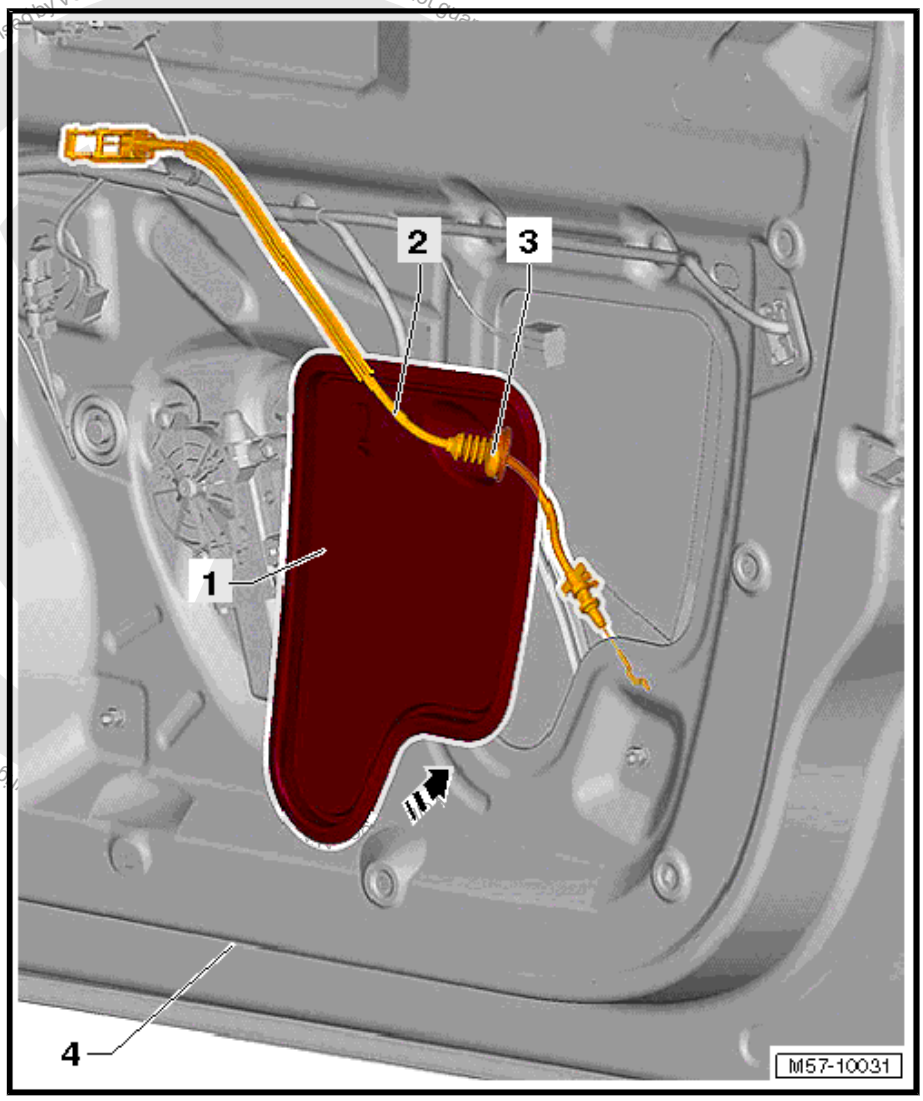
2.3.1 Removing

Note

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

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Perform the following:

– Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

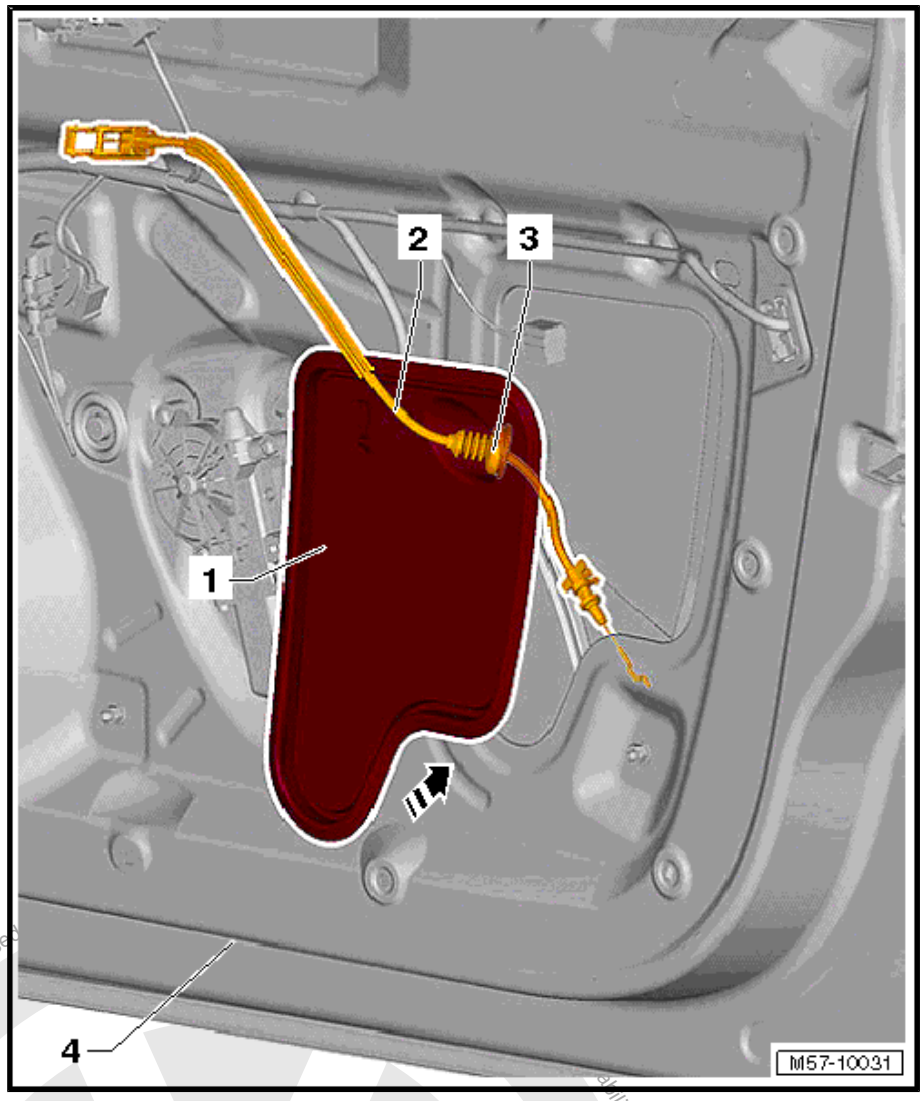
– Lift the cover -1- at the bottom.

– Pull the cover -1- down and remove it from the door -4-.

Note

Remove the cable -2- and the grommet -3- from the cover -1- and (if equipped) disconnect the connector in the grommet.

2.3.2 Installing



Perform the following:

– Pull the cable -2- through the cover -1- and secure the grommet -3-.

– Insert the cover -1- upward in the door -4-.

– Install the cover -1- in the door in direction of -arrow-.

– If equipped, connect the connector at the grommet -3-.

2.4 Door Strap, Removing and Installing

⇒ “2.4.1 Removing”, page 92

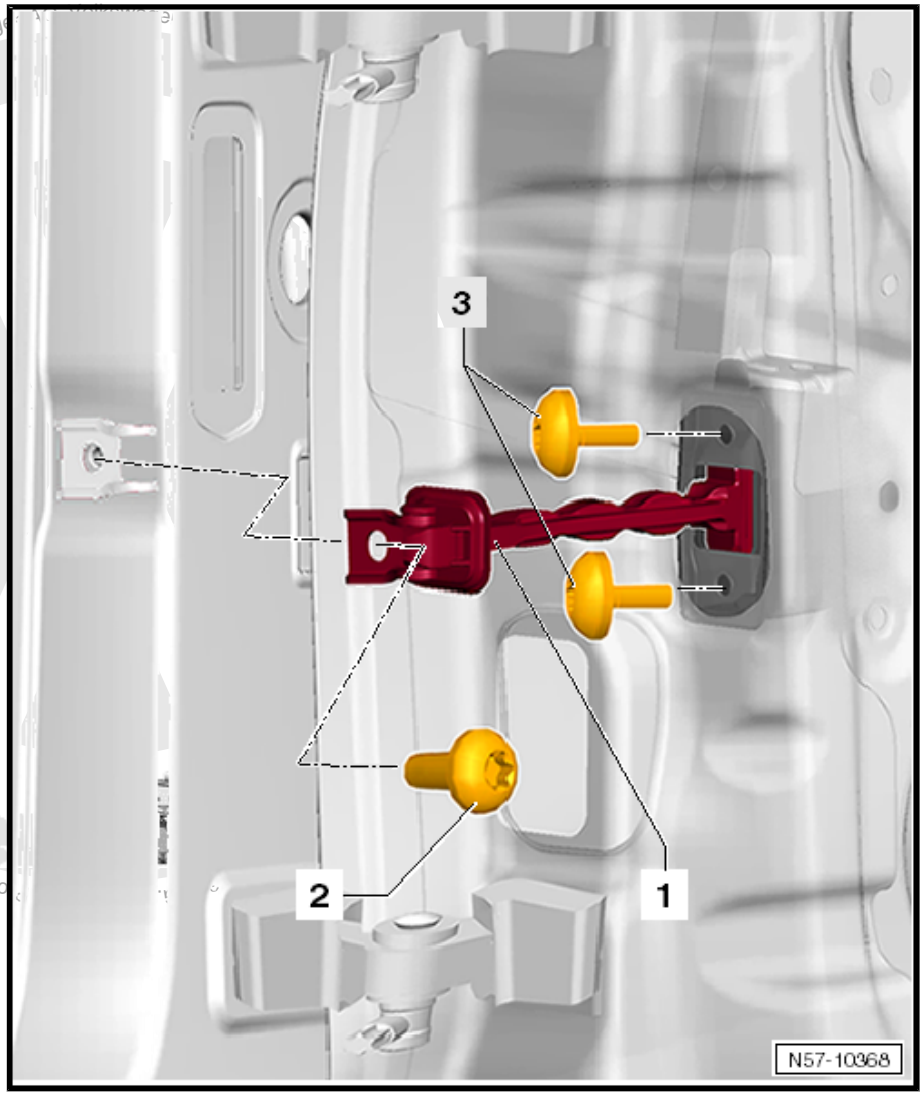
⇒ “2.4.2 Installing”, page 94

2.4.1 Removing

Note

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

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Perform the following:

– Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

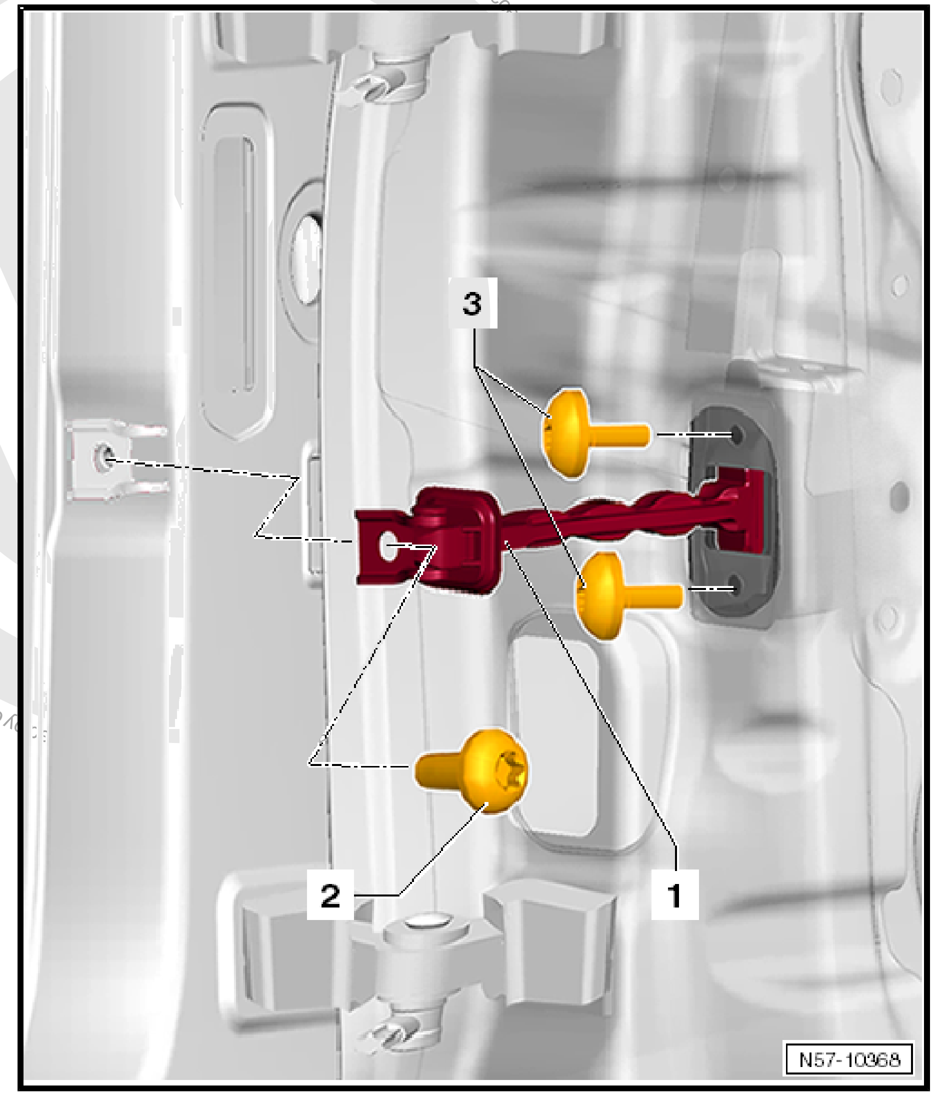
– Remove the riveted speaker.

– Remove the bolt -2- from the A-pillar.

– Remove the bolts -3- and remove the door strap -1- through the opening for the speaker.

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2.4.2 Installing



Perform the following:

Install in reverse order of removal.

Tightening specification for the bolts -2-: 30 Nm

Tightening specification for the bolts -3-: 9 Nm

2.5 Striker Pin, Removing and Installing

⇒ “2.5.1 Removing”, page 94

⇒ “2.5.2 Installing”, page 95

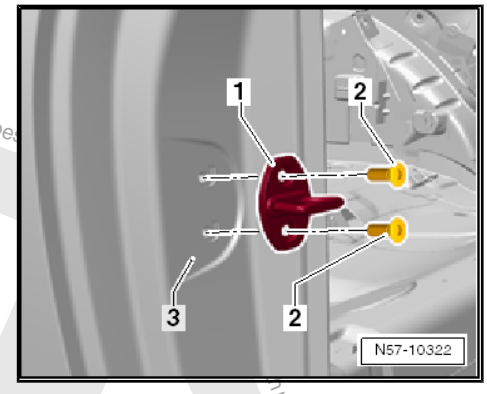
2.5.1 Removing

Note

The following describes the removal and installation of the right catch. Removing and installing the left striker pin is identical.

Perform the following:

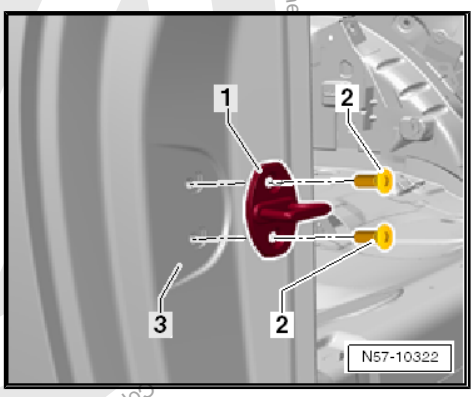
– Remove the bolts -2- and the catch -1-.



2.5.2 Installing

Perform the following:

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



WARNING

A catch with a curve must be installed.

The curve faces the vehicle interior.

Bolt tightening specification -2-: 25 Nm

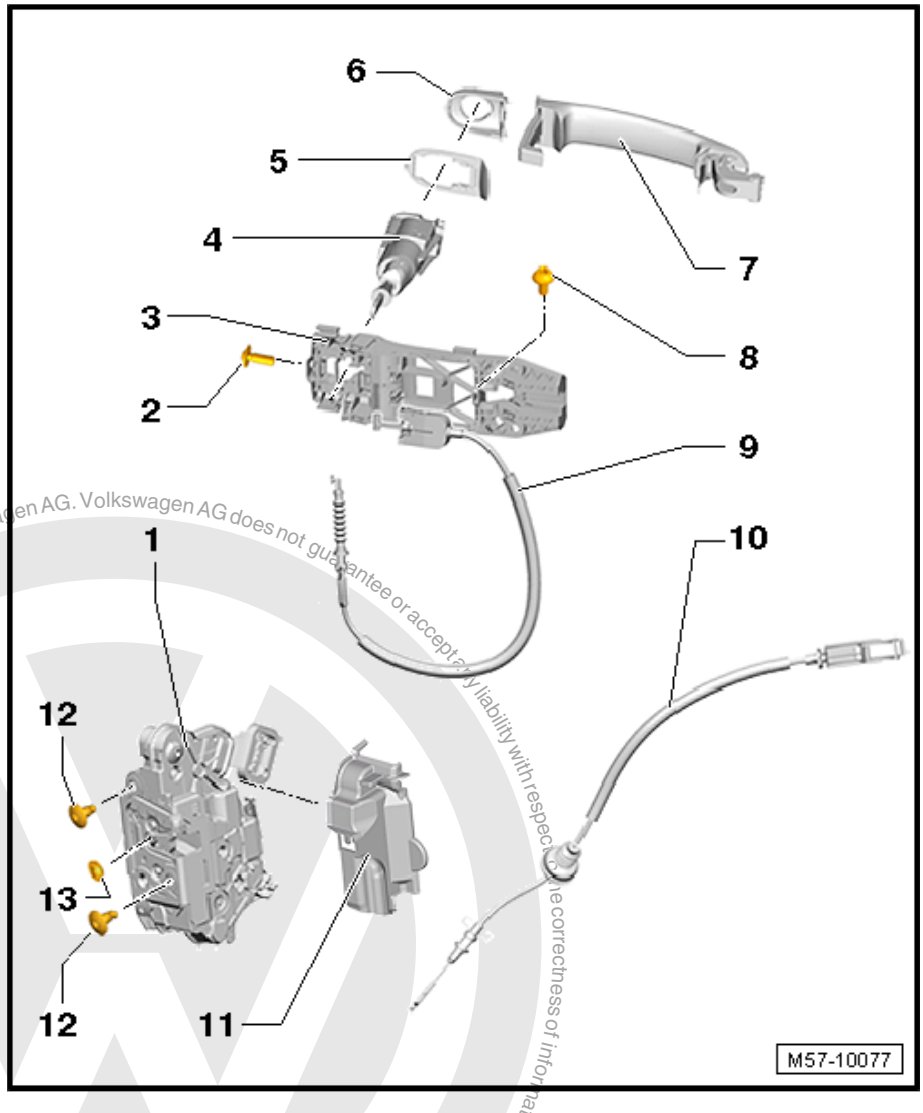
– Adjust the catch. Refer to ⇒ “1.5.2 Striker Pin, Adjusting”, page 87 .

2.6 Overview - Door Handle and Door Lock

Note

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

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1 - Door Lock

- ❑ Removing and installing. Refer to ⇒ “2.11 Door Lock, Removing and Installing”, page 106 .

2 - Screw

- ❑ Tightening specification: 4 Nm.
- ❑ For the lock cylinder

3 - Mounting Bracket

- ❑ Removing and installing. Refer to ⇒ “2.12 Mounting Bracket, Removing and Installing”, page 109 .

4 - Lock Cylinder

- ❑ Removing and installing. Refer to ⇒ “2.8 Lock Cylinder, Removing and Installing”, page 98 .
- ❑ Not always installed on the front passenger door depending on the optional equipment

5 - Backing Plate

6 - Cap

- ❑ With lock cylinder, removing and installing. Refer to ⇒ “2.7 Lock Cylinder Cap, Removing and Installing”, page 97 .
- ❑ Without the lock cylinder, removing and installing. Refer to ⇒ “2.9 Cap without Lock Cylinder, Removing and Installing”, page 101 .

7 - Door Handle

- ❑ Removing and installing. Refer to ⇒ “2.10 Door Handle, Removing and Installing”, page 103 .

8 - Screw

- ❑ Tightening specification: 1 Nm.
- ❑ Loosening this bolt loosens the mounting bracket from the door.

9 - Cable

- ❑ From the door lock -1- to the mounting bracket -3-
- ❑ Secured to the outer door panel with adhesive tape

10 - Cable

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

11 - Door Lock Cover

- ❑ Retrofit if not installed

12 - Bolt

- ❑ Tightening specification: 18 Nm.
- ❑ Quantity: 2

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13 - Cap

2.7 Lock Cylinder Cap, Removing and Installing

⇒ “2.7.1 Removing”, page 97

⇒ “2.7.2 Installing”, page 98

2.7.1 Removing

Note

When removing the lock cylinder cap, do not turn the screwdriver and do not use prying motions.

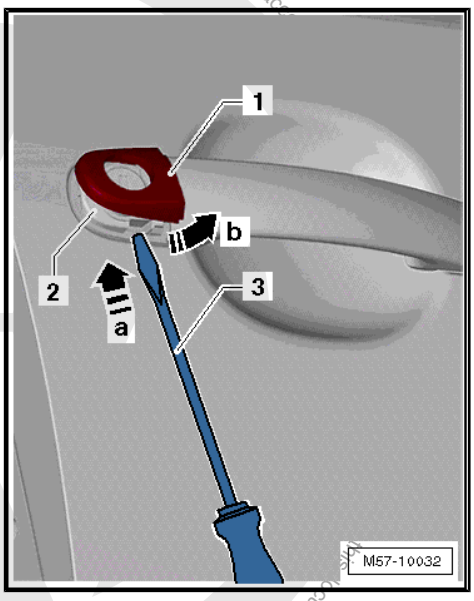
Perform the following:

– 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 -1-.

– Remove the lock cylinder cap -1- with the screwdriver, on the bottom gently from the door -arrow b-.

– Push the cap upward off the lock cylinder.



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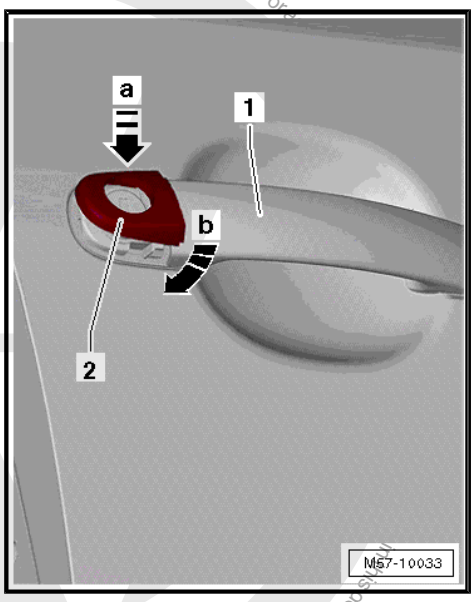
2.7.2 Installing

Perform the following:

– Remove the door handle -1- from the door.

– Place the lock cylinder cap -2- gently at an angle from above -arrow a- on the lock cylinder.

– Press the lock cylinder cap -2- on the door -arrow b- until cap engages with lock cylinder.



2.8 Lock Cylinder, Removing and Installing

⇒ “2.8.1 Removing”, page 98

⇒ “2.8.2 Installing”, page 100

2.8.1 Removing

Note

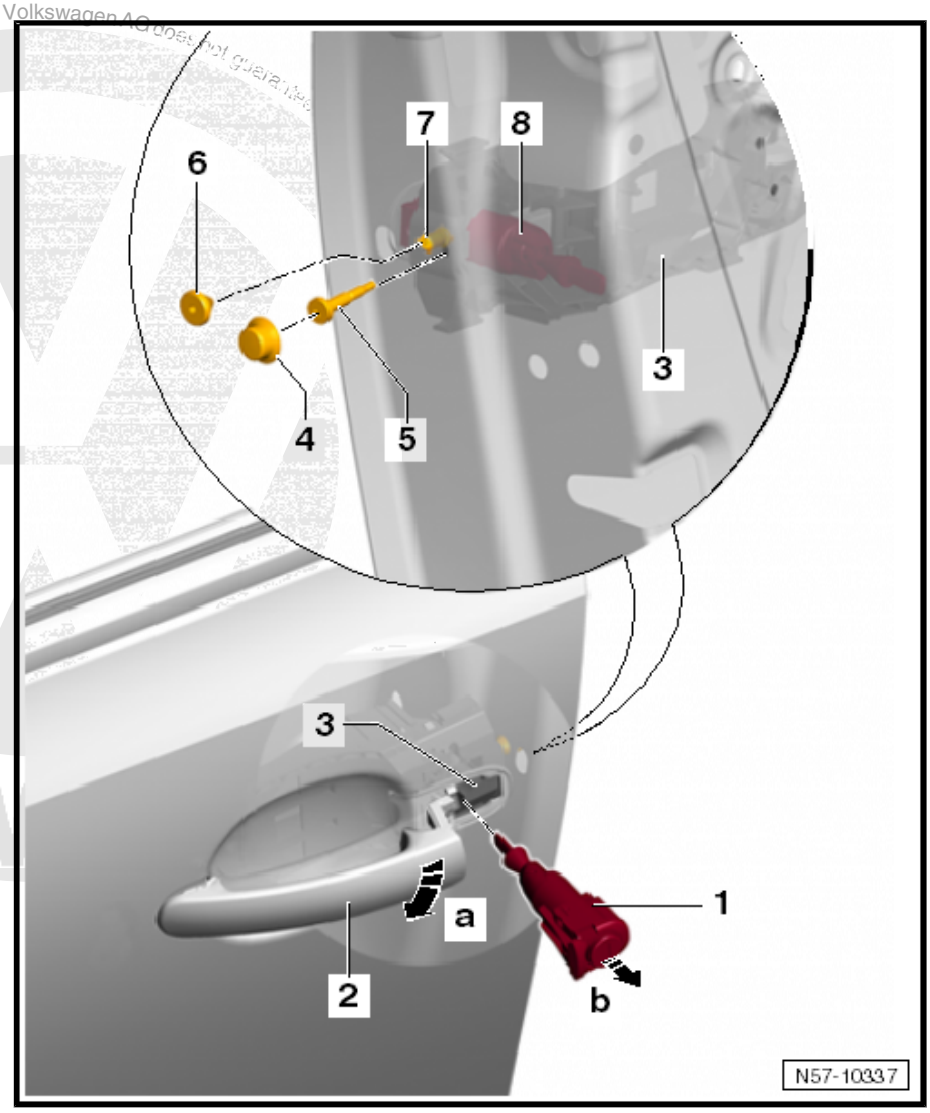
The following describes the removal and installation of a left lock cylinder. Removing and installing a right lock cylinder is identical.

Note

The covers -4 and 6- illustrated here may have different shapes.

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Perform the following:

– Remove the covers -4 and 6-.

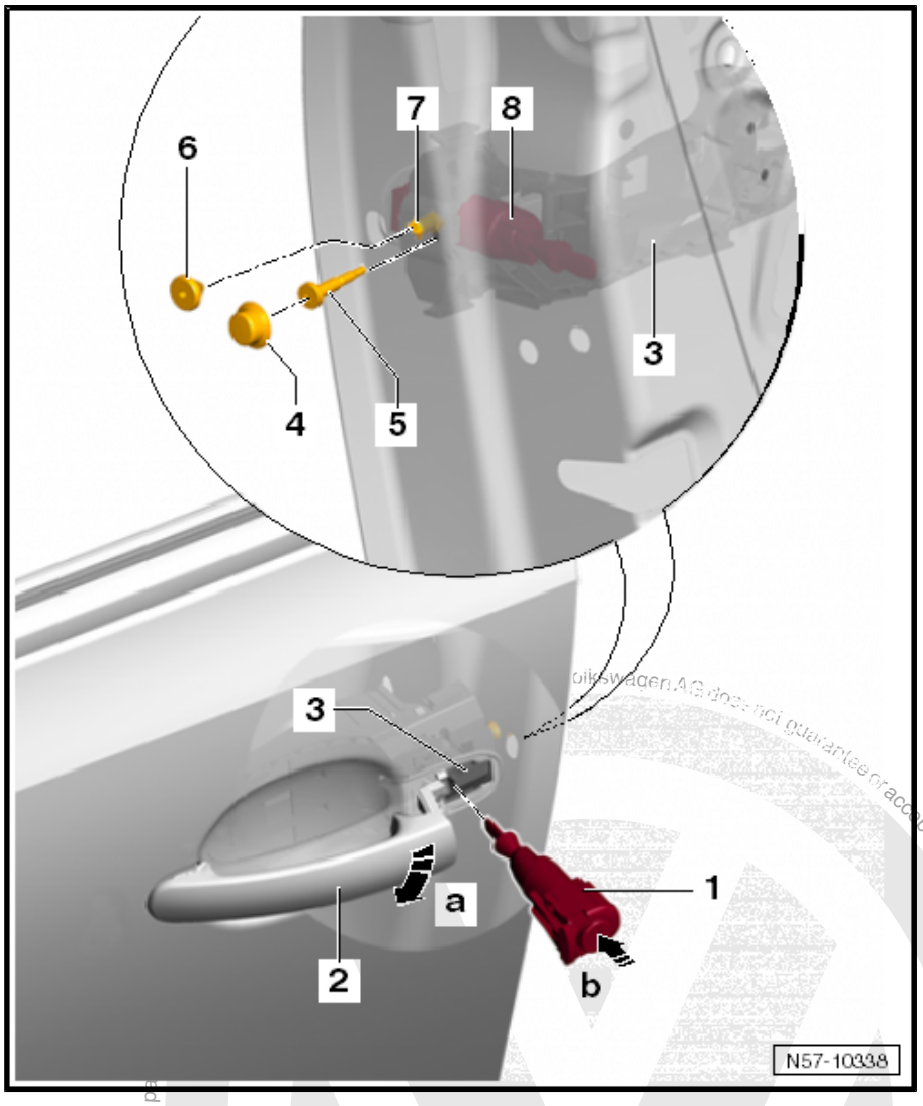
– Remove the bolt -5-.

– Remove the bolt -7- to the stop to free the lock cylinder bolt.

– Remove the door handle -2- from the door -8- -arrow a-.

– Remove the lock cylinder housing -1- from the mounting bracket -3- at a right angle -arrow b- to the door.

2.8.2 Installing



Perform the following:

– Remove the door handle -2- from the door -8- -arrow a-.

– Install the lock cylinder housing -1- into the mounting bracket -3- at a right angle -arrow b-.

– Install the bolts -5 and 7- into the mounting bracket.

Bolt tightening specification -5 and 7-: 4 Nm

Note

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

Install in reverse order of removal.

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2.9 Cap without Lock Cylinder, Removing and Installing

⇒ “2.9.1 Tools”, page 101
⇒ “2.9.2 Removing”, page 101
⇒ “2.9.3 Installing”, page 102

2.9.1 Tools

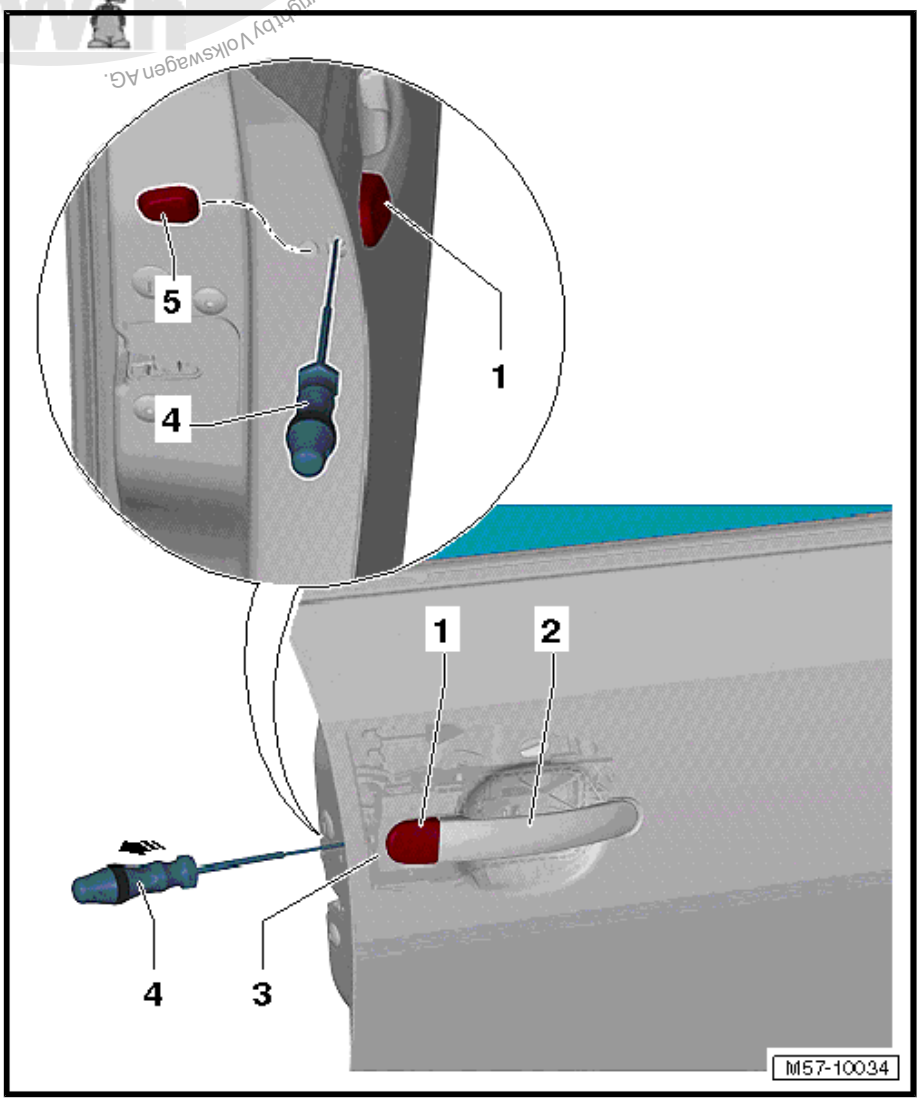
Special tools and workshop equipment required

- Lock Cylinder Housing Assembly Tool - T10389-

2.9.2 Removing

Note

The cover -2- illustrated here may have a different shape.

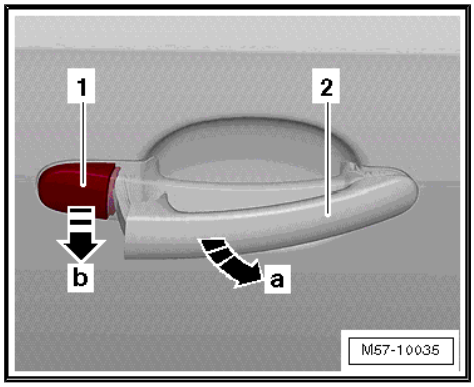


Perform the following:

– Remove the cover -2-.

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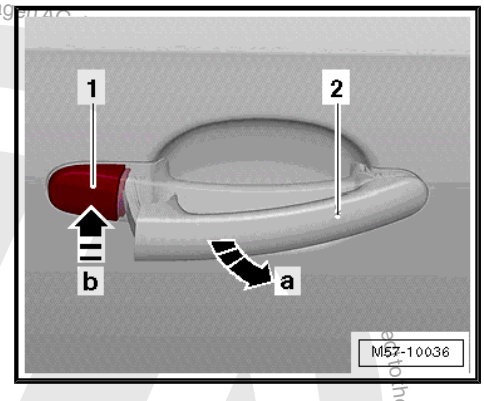
– Install the Lock Cylinder Housing Assembly Tool - T10389- into the door behind the hooks -3- for the cap -1-.
– Pull the Lock Cylinder Housing Assembly Tool - T10389- toward the rear -arrow- until the hook is released.
– Remove the door handle -2- from the door in the direction of the -arrow a-.
– Remove the cap -1- at a right angle -arrow b- from the mounting bracket.



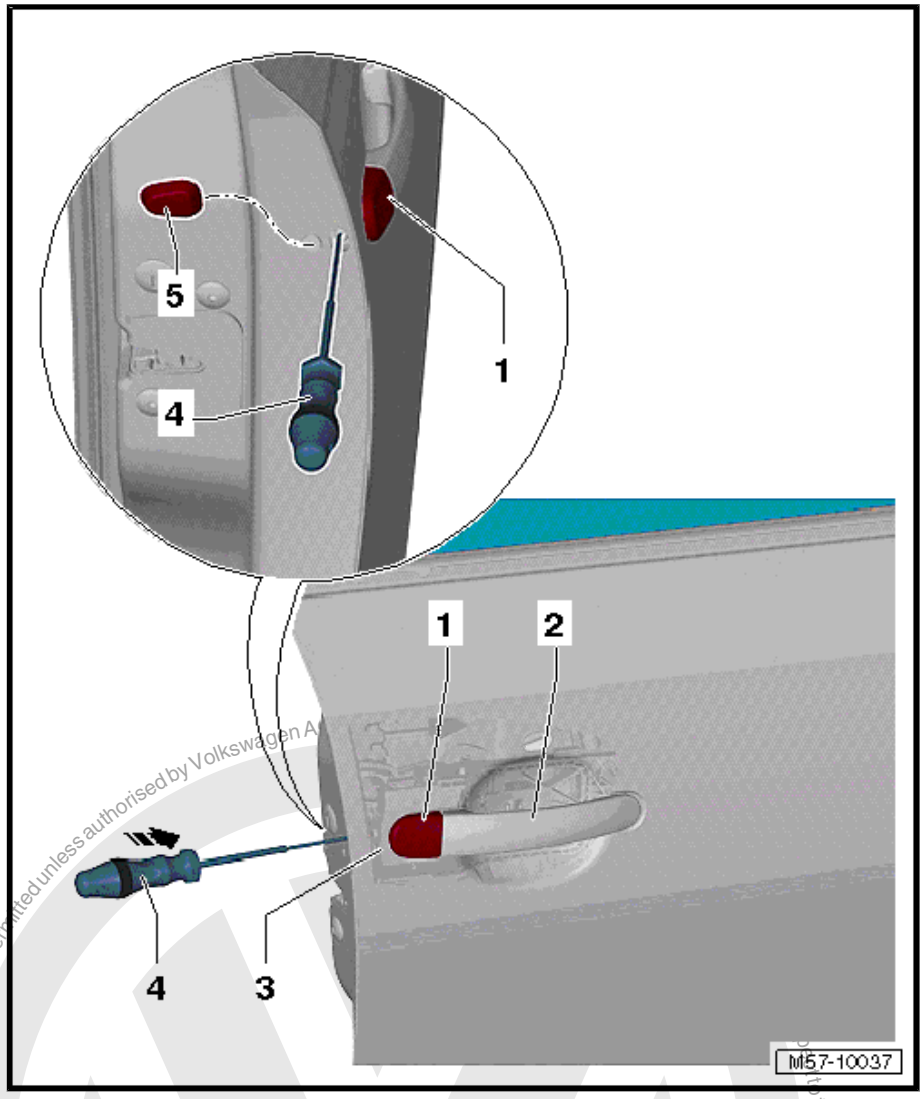
2.9.3 Installing

Perform the following:

– Remove the door handle -2- from the door in the direction of the -arrow a-.
– Install the cap -1- at a right angle into the mounting bracket -arrow b-.



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– Insert a screwdriver -4- on the hooks -3- in the mounting bracket.
– Push the cap -1- onto the door.
– Push the screwdriver in just far enough -arrow- to release the hook.
– Install the cover -5-.

2.10 Door Handle, Removing and Installing

⇒ “2.10.1 Removing”, page 103

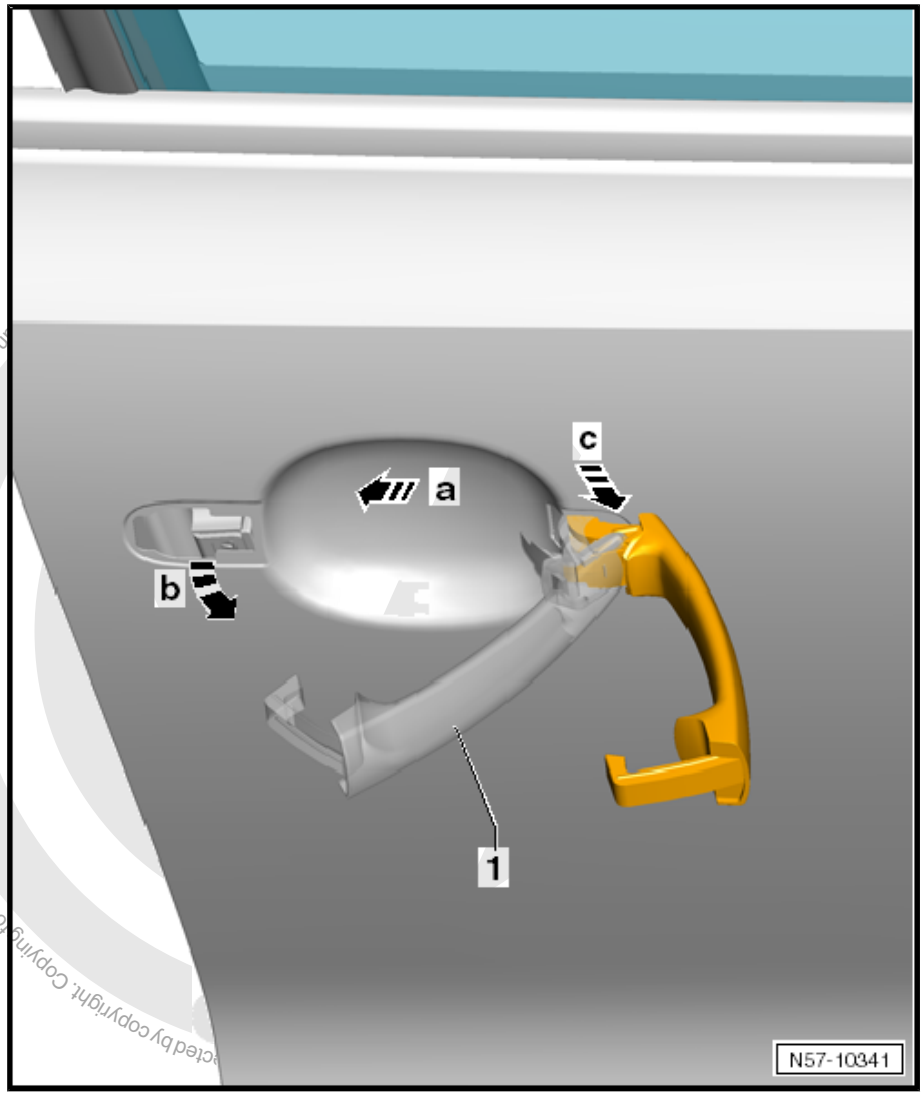
⇒ “2.10.2 Installing”, page 105

2.10.1 Removing

Note

The following describes the removal and installation of the right door handle. Removing and installing the left door handle is identical.

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Perform the following:

– Remove the lock cylinder (refer to ⇒ “2.8 Lock Cylinder, Removing and Installing”, page 98) or the cap (refer to ⇒ “2.9 Cap without Lock Cylinder, Removing and Installing”, page 101).

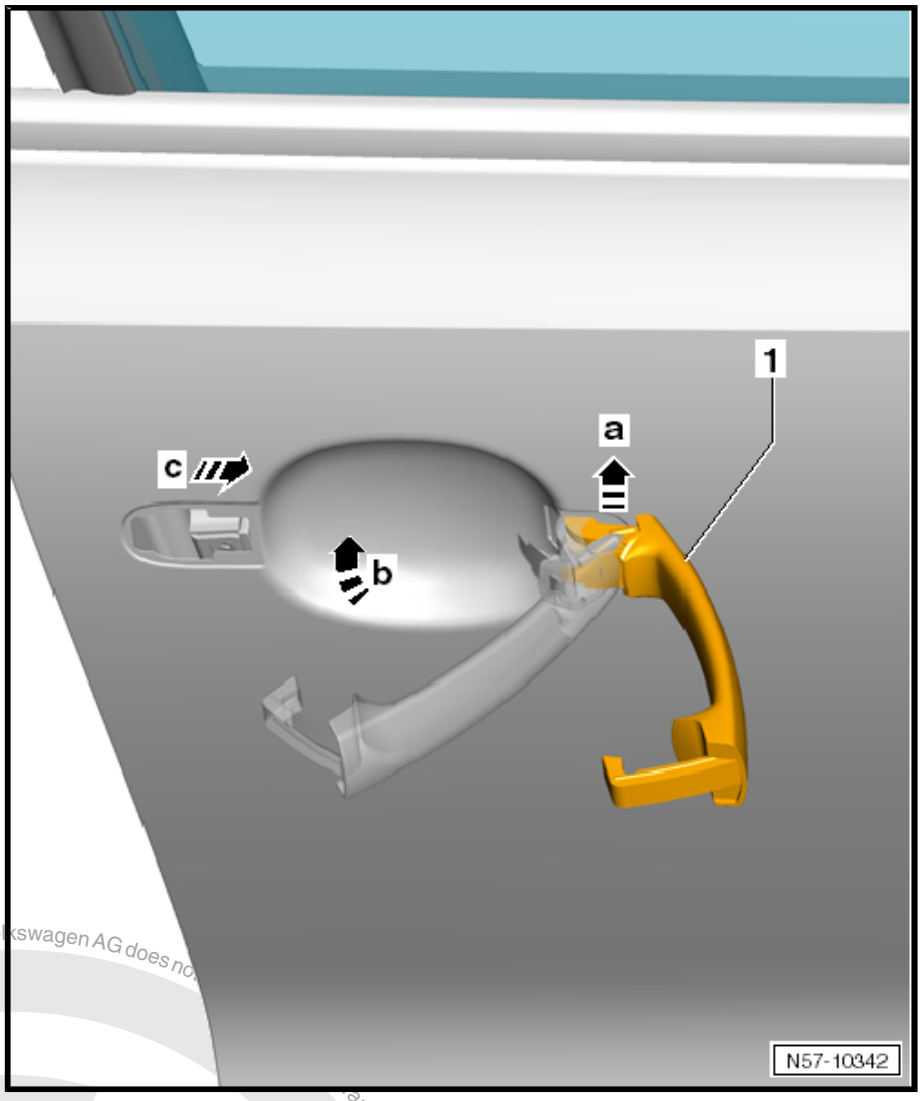
– Pull the door handle -1- slightly to the rear -arrow a- and out of the mounting bracket mount.

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

– Remove the door handle at a right angle -arrow c- from the mounting bracket.

– If equipped, disconnect the connector from the door handle -1-.

2.10.2 Installing



Perform the following:

- If equipped, connect the connector to the door handle -1-.
- Insert the door handle -1- into the mounting bracket at a right angle -arrow a-.
- Install the door handle -1- into the door -arrow b-.
- Push the door handle toward the front -arrow c- into the mount in the mounting bracket.
- Install the lock cylinder (refer to ⇒ “2.8 Lock Cylinder, Removing and Installing”, page 98) or cap (refer to ⇒ “2.9 Cap without Lock Cylinder, Removing and Installing”, page 101).

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2.11 Door Lock, Removing and Installing

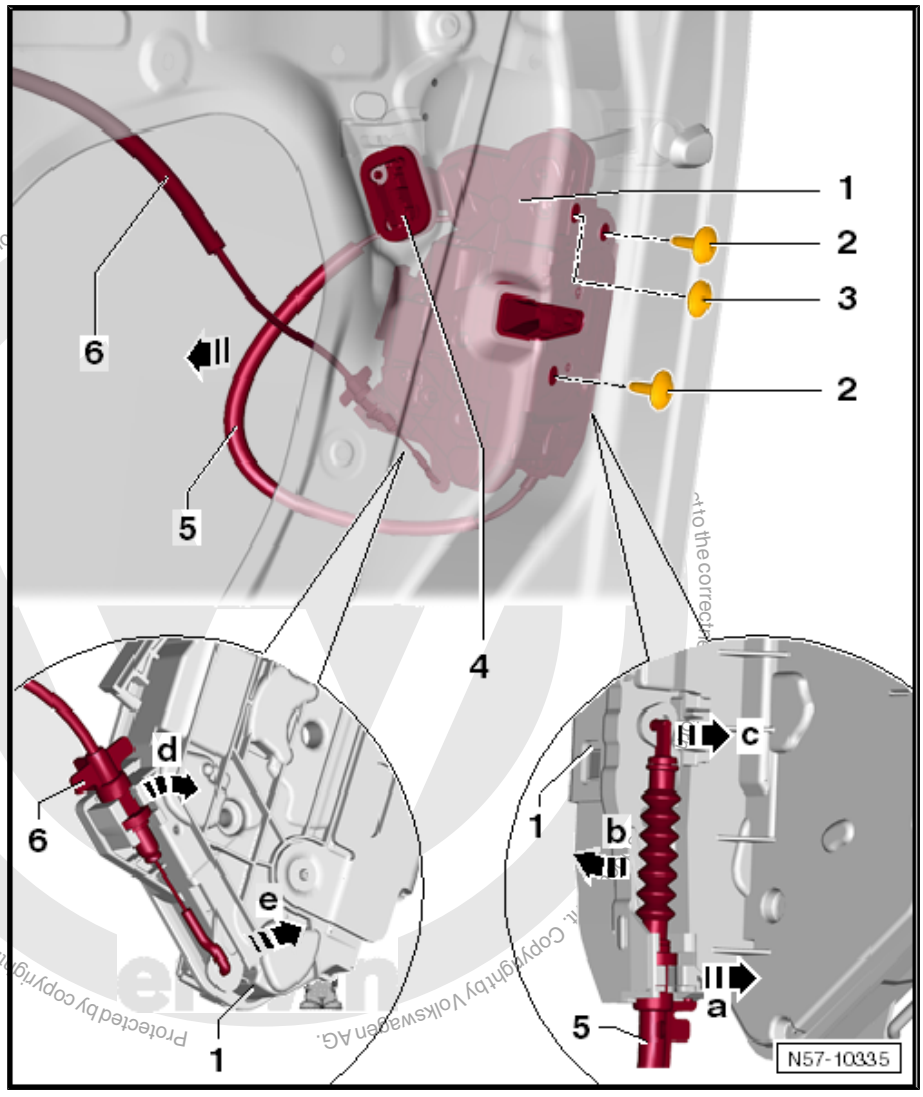
⇒ “2.11.1 Removing”, page 106

⇒ “2.11.2 Installing”, page 107

2.11.1 Removing

Note

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



Perform the following:

– Remove the cover. Refer to ⇒ “2.3 Door Cover, Removing and Installing”, page 90 .

– Remove the cap -3-.

– Disconnect the connector -4-.

– If equipped in the door, remove the lock cylinder. Refer to ⇒ “2.8 Lock Cylinder, Removing and Installing”, page 98 .

– Remove the rear nuts for the window regulator.
– For later removal of the door lock push the threaded pin from the window regulator in the door.
– Remove the bolts -2-.
– Remove the door lock -1- from the door.

Note

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

Cable to Mounting Bracket, Loosening

– Remove the cap -item 11- ⇒ Item 11 (page 96) (if equipped) from the door lock.

The cable -5- can be secured to the outer door panel with adhesive tape.

– Turn the cable -5- 90° and remove it -arrow a- out of the bracket.
– Move the cable -arrow b- until it can be guided out of the eye in the door lock -1- -arrow c-.

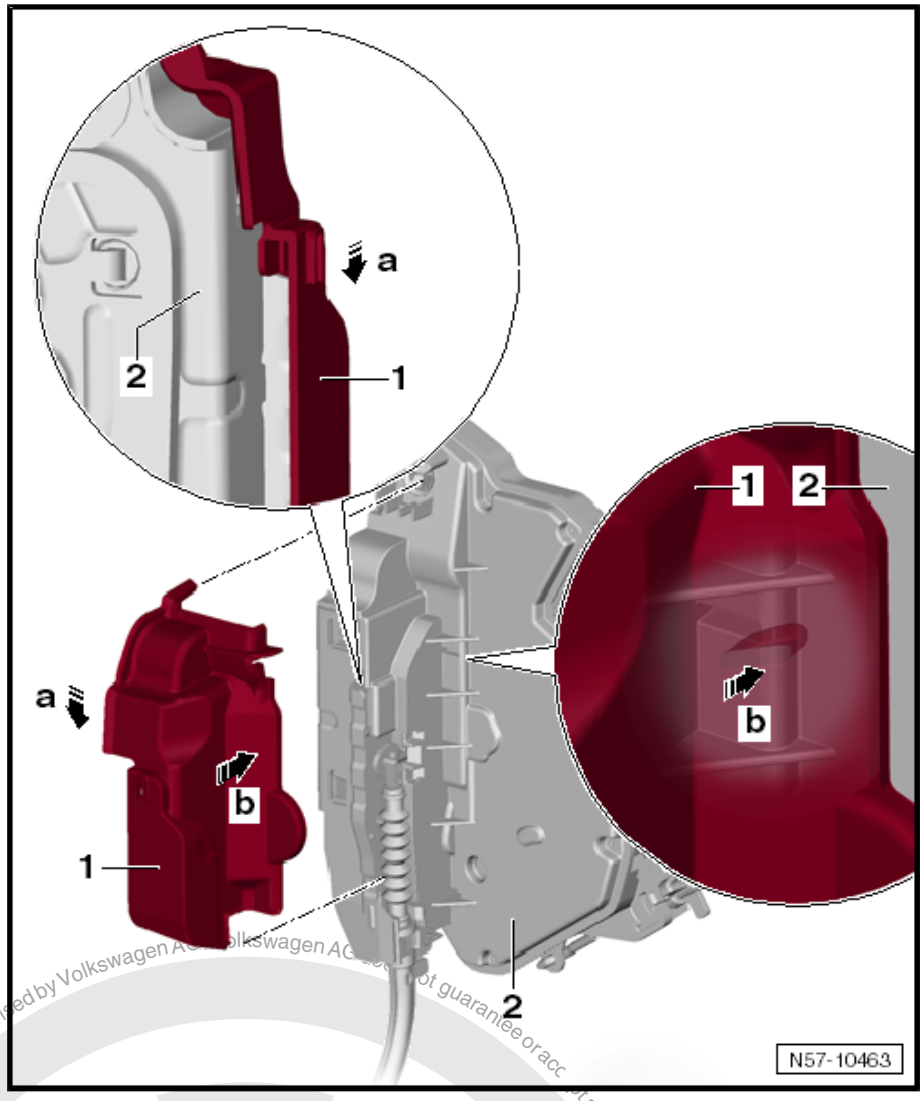
Cable to Interior Door Mechanism, Loosening

– Turn the cable -6- 90° and remove it from the mount.
– Move the cable -arrow d- until it can be guided out of the eye in the door lock -1- -arrow e-.

2.11.2 Installing

Perform the following:

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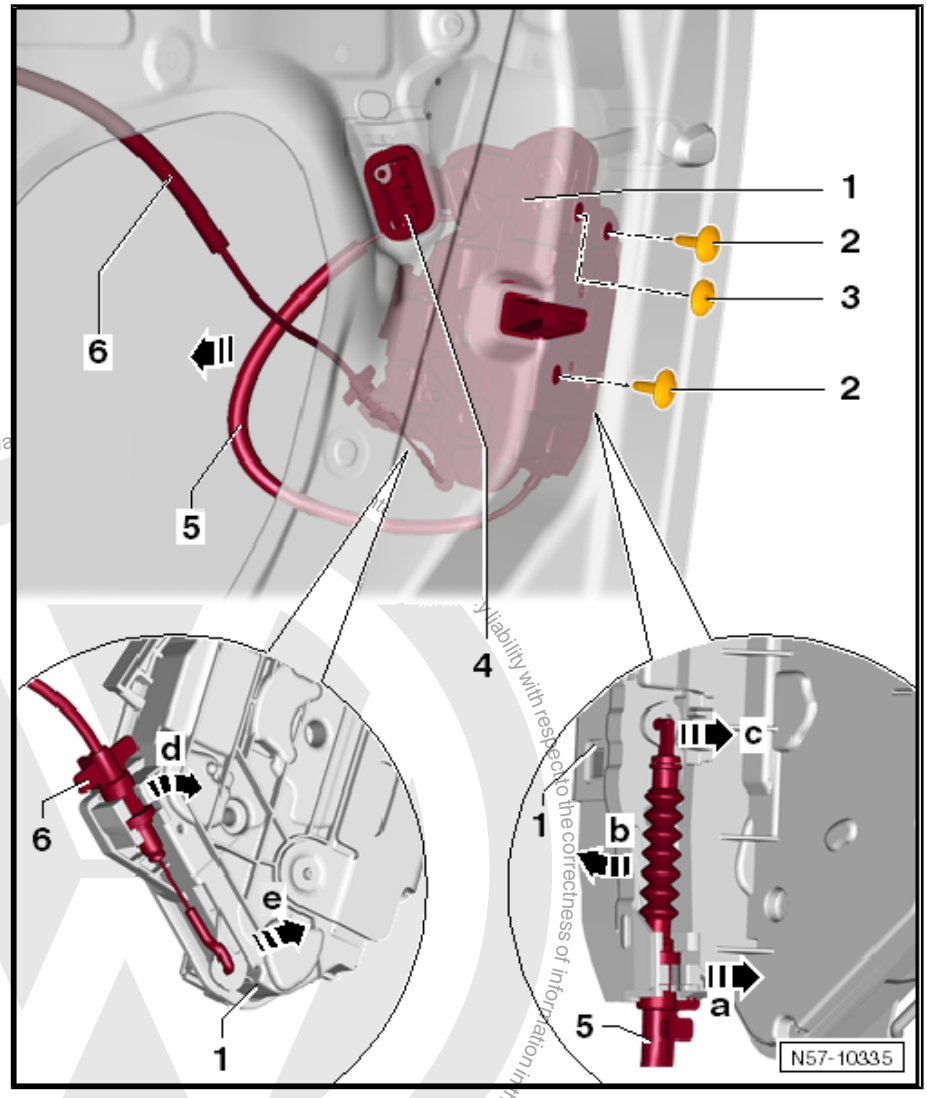


Note

Install the cap before installing the door lock.

– Push the cap -1- onto the door lock guide -2- -arrow a-.
– Lock the cap -1- into the center of the door lock -2- -arrow b-.

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Install in reverse order of removal.

– Secure the cable -5- to the outer door panel with tape.

Bolt tightening specification -2-: 18 Nm

2.12 Mounting Bracket, Removing and Installing

⇒ “2.12.1 Removing”, page 109

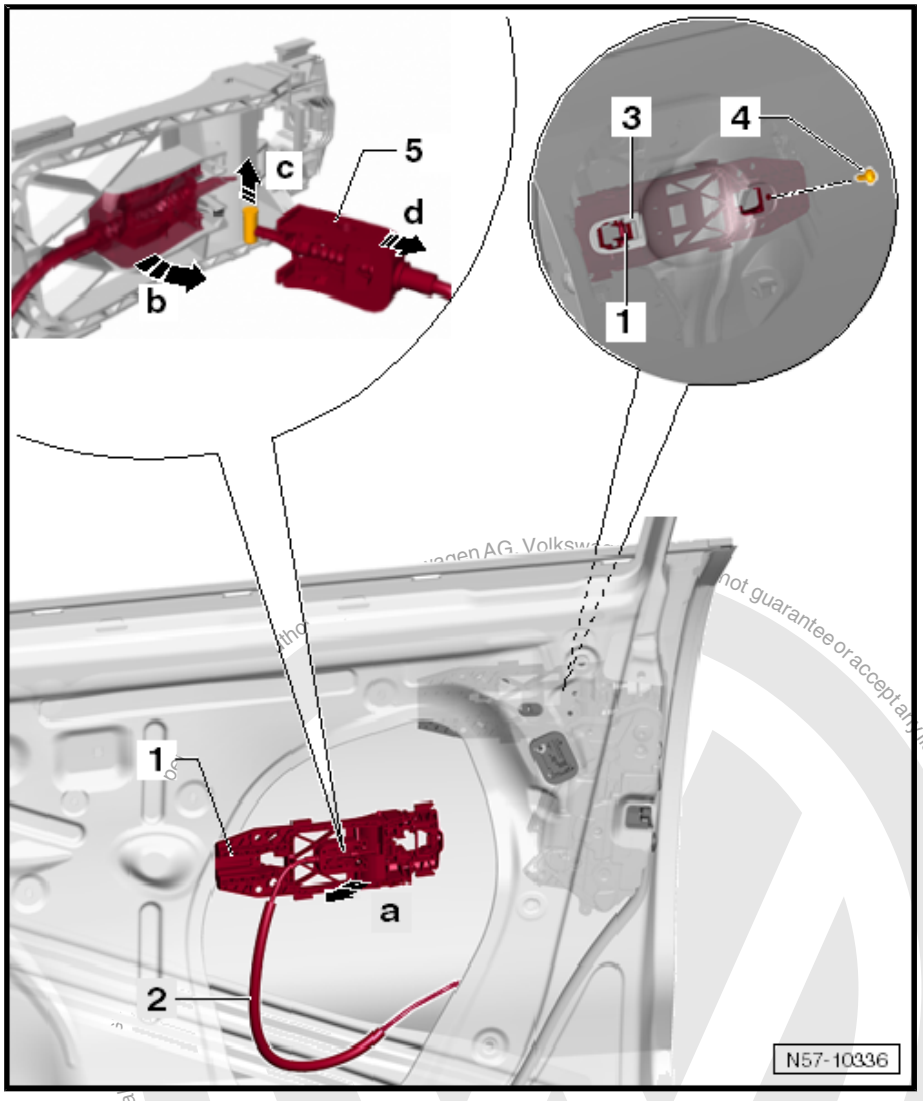
⇒ “2.12.2 Installing”, page 111

2.12.1 Removing

Note

The following describes the removal and installation of the right mounting bracket. Removing and installing the left mounting bracket is identical.

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Perform the following:

– Remove the cover. Refer to
⇒ “2.3 Door Cover, Removing and Installing”, page 90 .

– Remove the lock cylinder (refer to
⇒ “2.8 Lock Cylinder, Removing and Installing”, page 98) or cap (refer to
⇒ “2.9 Cap without Lock Cylinder, Removing and Installing”, page 101).

– Remove the door handle. Refer to
⇒ “2.10 Door Handle, Removing and Installing”, page 103 .

– Remove the bolt -4- and then remove the backing -3-.

– Remove the mounting bracket -1- from the door -arrow a-.

Cable, Loosening

The cable -2- can be secured to the outer door panel with tape.

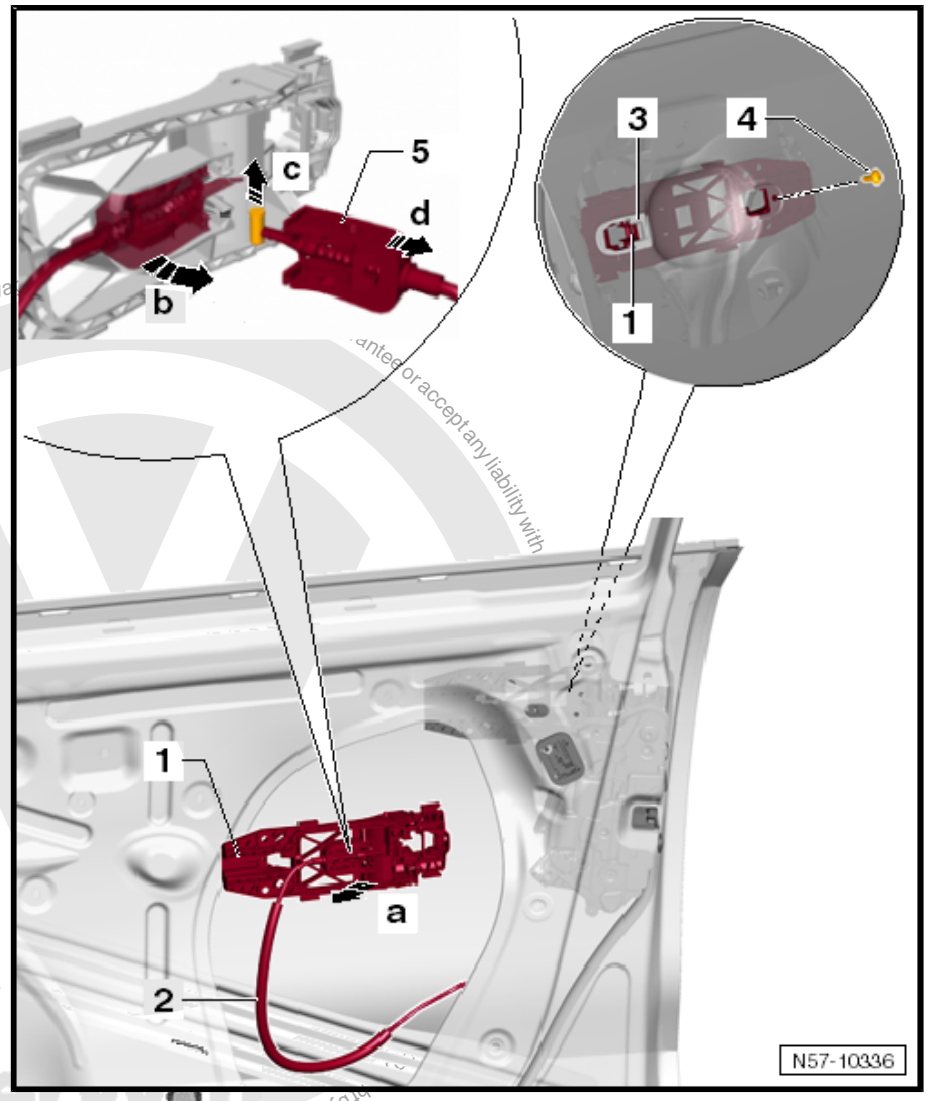
– Release the retainer -5- and swivel it out of the mount int he mounting bracket -arrow b-.

– Lift the pin for the cable out of the mount -arrow c-.

– Remove the cable -2- from the mounting bracket -1- -arrow d-.

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2.12.2 Installing



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Perform the following:

Install in reverse order of removal.

– Secure the cable -2- to the outer door panel with tape.

Screw tightening specification -4-: 1 Nm

2.13 Inner Window Shaft Seal, Removing and Installing

⇒ “2.13.1 Removing”, page 112

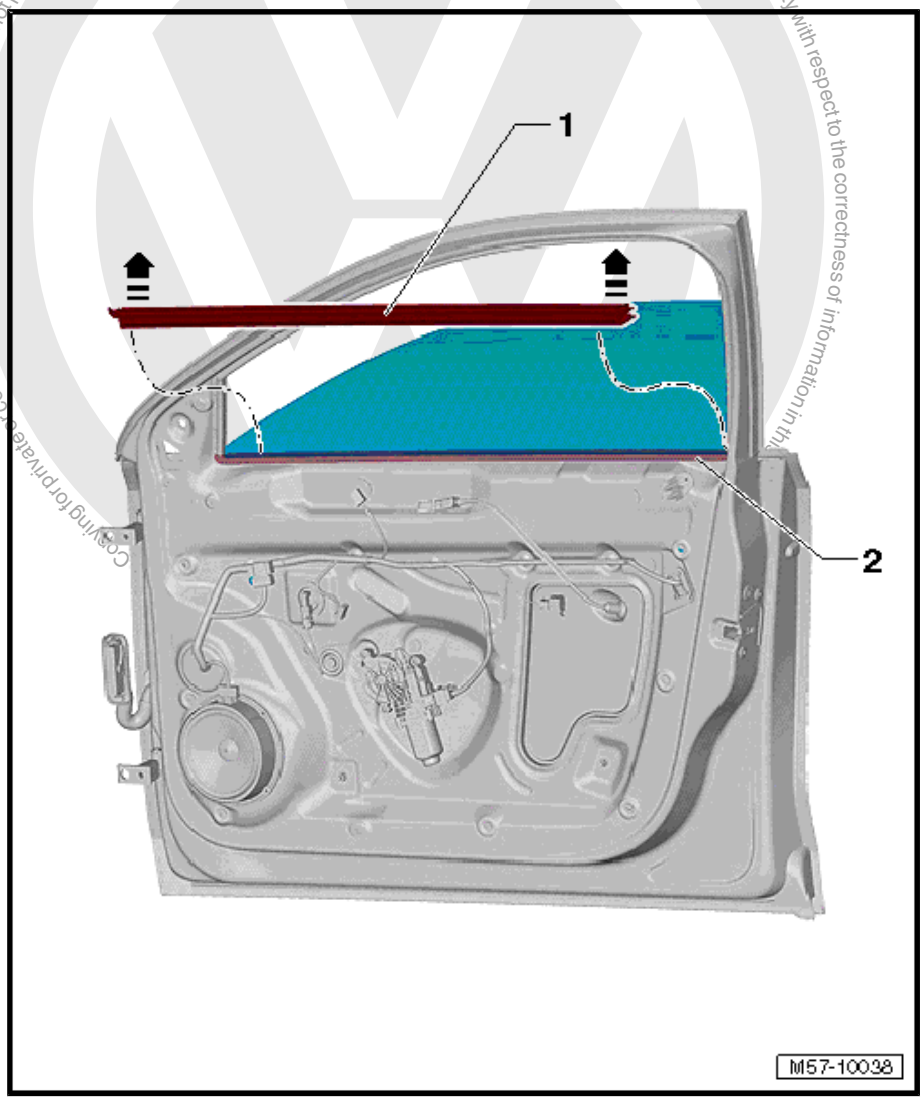
⇒ “2.13.2 Installing”, page 113

2.13.1 Removing

Note

- *The following describes removing and installing the right inner window shaft seal. Removing and installing the left inner window shaft seal is identical.*
- *Pull the strip off evenly without bending it.*

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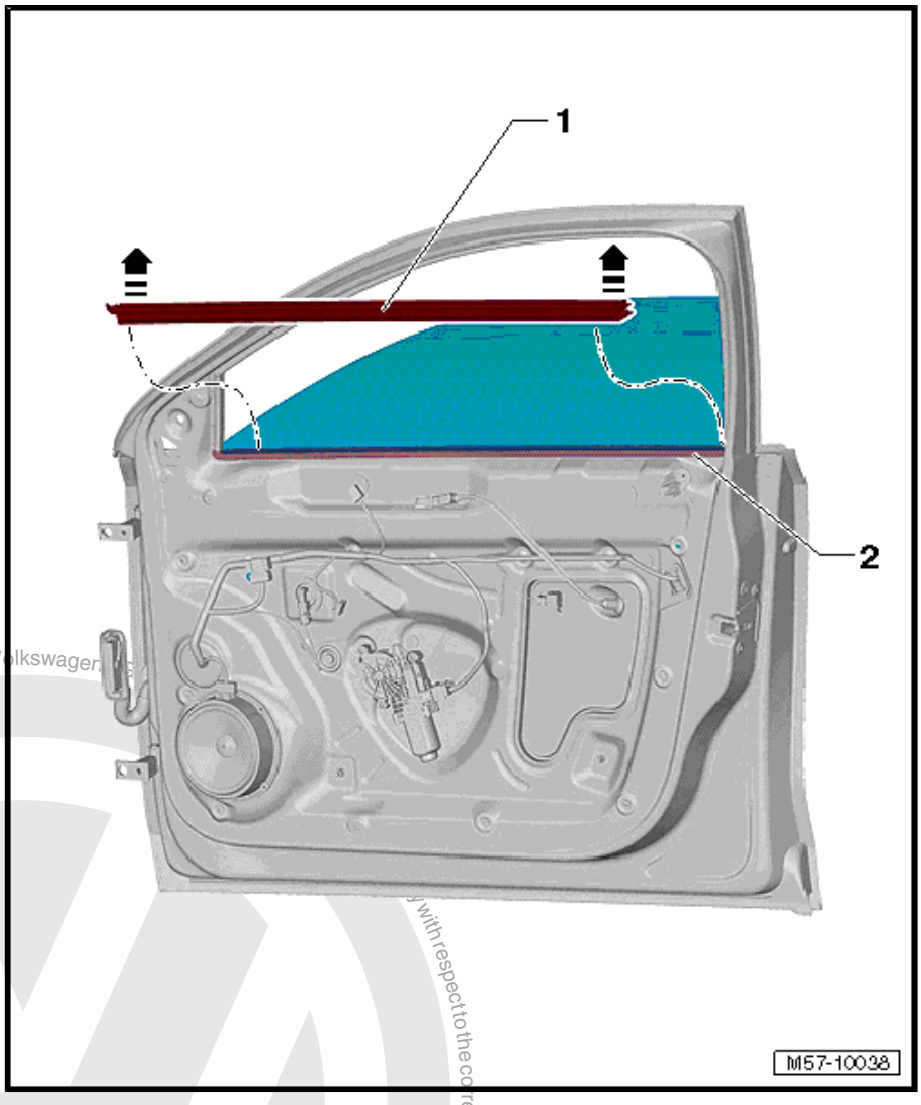


Perform the following:

– Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

– Remove the seal -1- evenly -arrows- from the flange -2-.

2.13.2 Installing



Perform the following:

– Press the seal -1- onto the flange -2- evenly starting at the B-pillar.

– Install the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

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2.14 Outer Window Shaft Seal, Removing and Installing

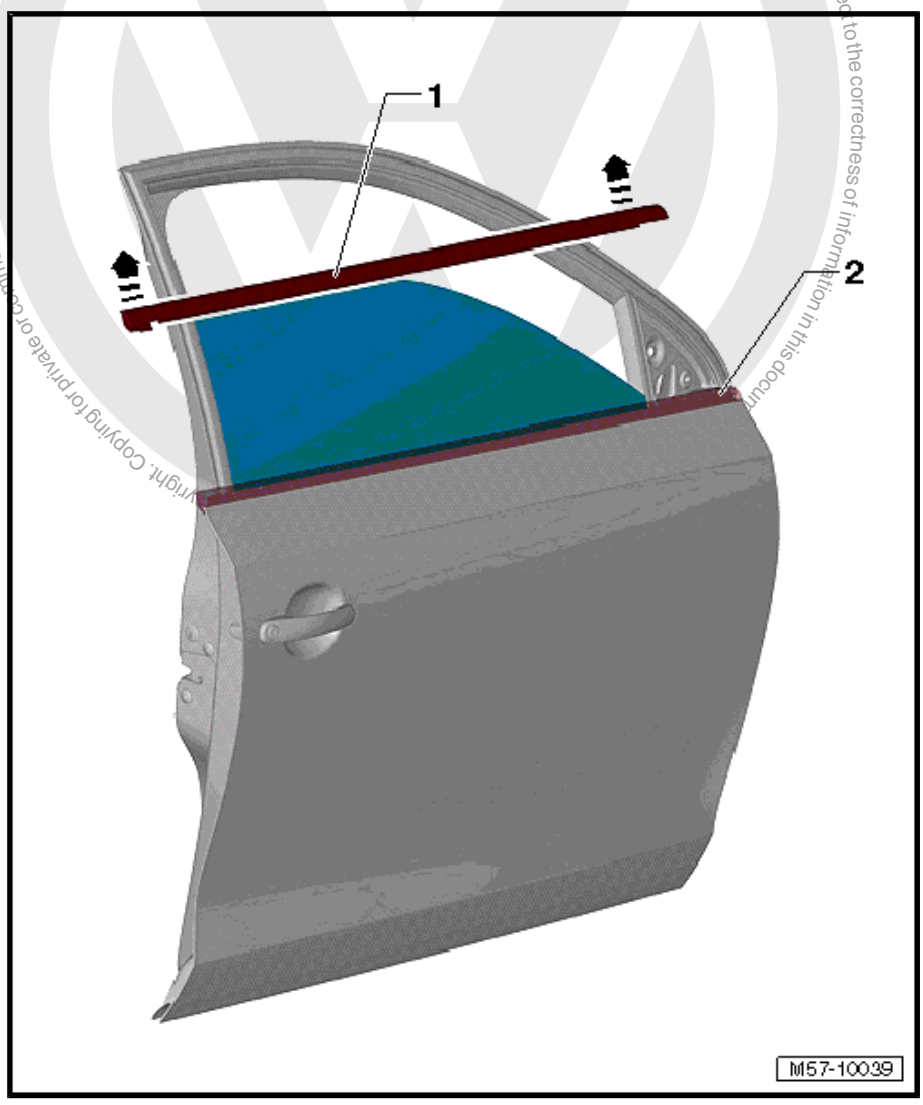
⇒ “2.14.1 Removing”, page 114

⇒ “2.14.2 Installing”, page 115

2.14.1 Removing

Note

- *The seal 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 seal must be removed evenly without bending it.*
- *The following describes removing and installing the right outer window shaft. Removing and installing the left outer window shaft is identical.*



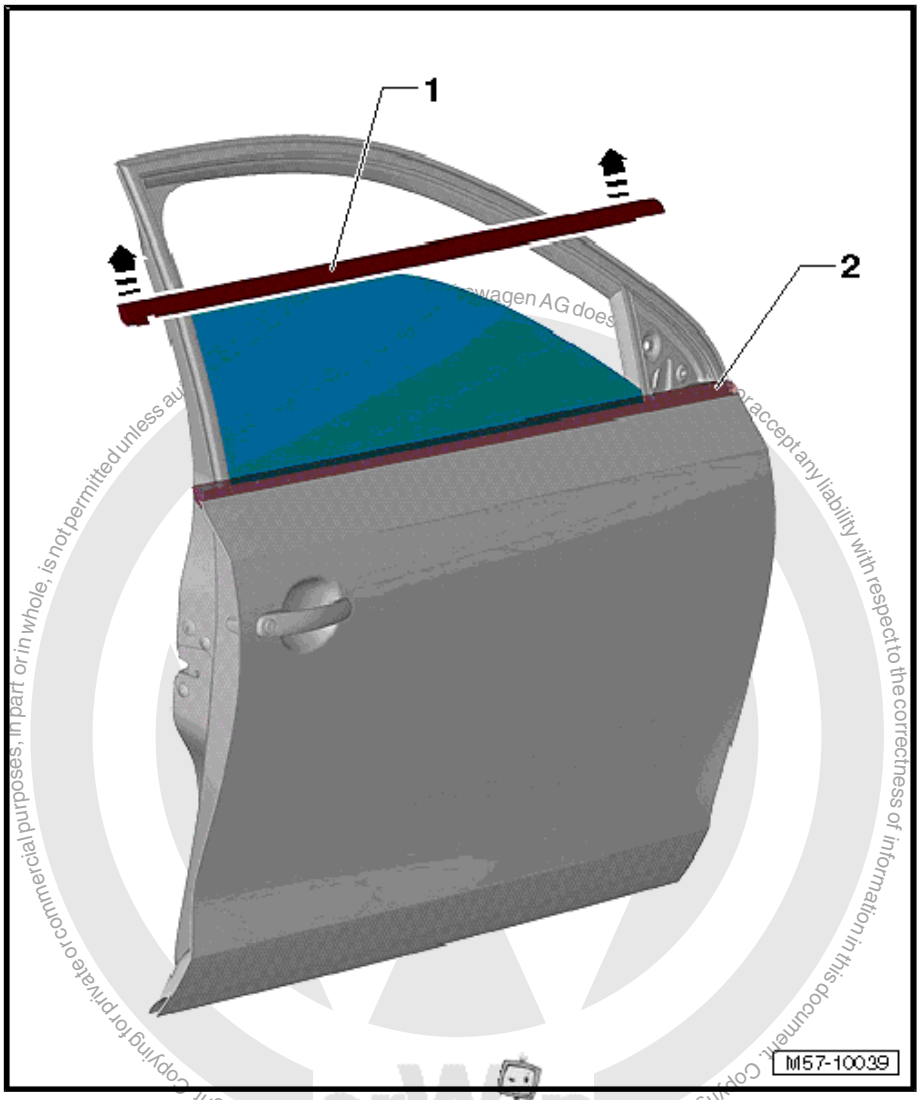
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Perform the following:

– Remove the exterior mirror: manual. Refer to
⇒ “2.12 Manual Exterior Rearview Mirror, Removing and Installing”, page 282 , power. Refer to
⇒ “2.13 Power Exterior Rearview Mirror, Removing and Installing”, page 286 .

– Remove the seal -1- evenly -arrows- from the flange -2-.

2.14.2 Installing



Perform the following:

– Position the seal -1- on the B-pillar and push it evenly onto the door flange -2-.

– Install the exterior mirror: manual. Refer to
⇒ “2.12 Manual Exterior Rearview Mirror, Removing and Installing”, page 282 , power. Refer to
⇒ “2.13 Power Exterior Rearview Mirror, Removing and Installing”, page 286 .

2.15 Inner Door Seal, Removing and Installing

⇒ “2.15.1 Removing”, page 116

⇒ “2.15.2 Installing”, page 118

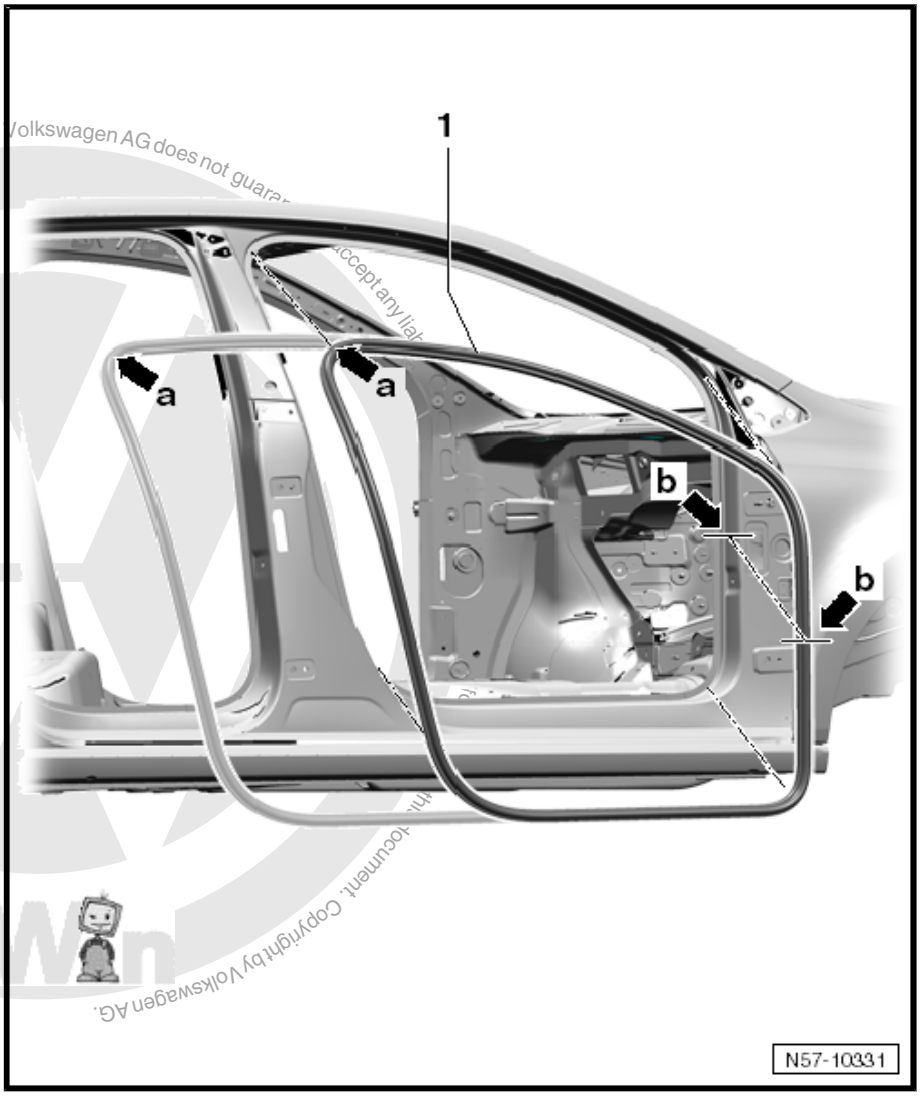
2.15.1 Removing

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 of the seal will spread when the seal is removed. The sides will bend up slightly. The seal may not seal completely or be seated correctly if the seal is reinstalled.*
- *For this reason, every seal that has been removed completely must be replaced with a so-called “hammer-stroke seal”.*
- *With partially removed seals, press the seal sides together before installing.*
- *The following describes removing and installing the right inner door seal. Removing and installing the left inner door seal is identical.*

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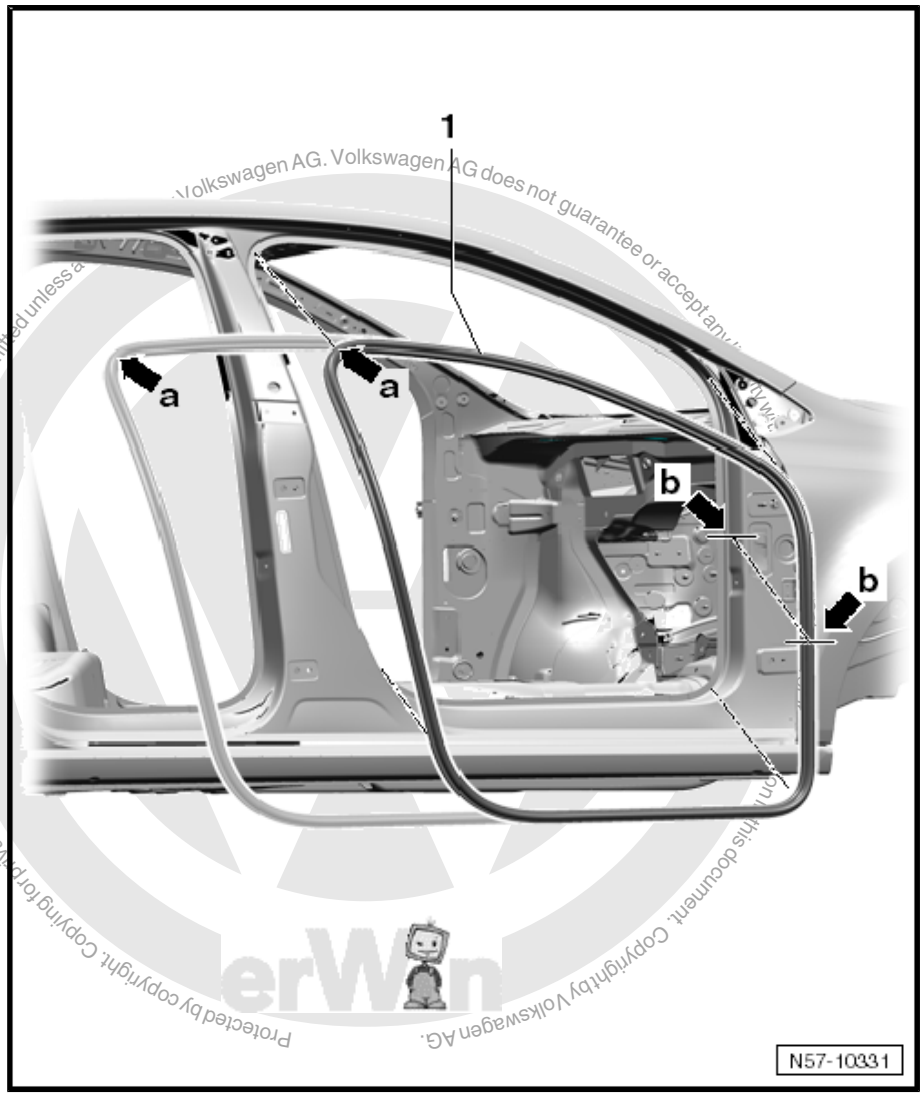
Perform the following:

– It is necessary to remove the pillar trim in order to remove the inner door seal. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels .

– Remove the sill panel strip ⇒ Body interior; Rep. Gr. 68 .

– Remove the inner door seal -1- from the body flange.

2.15.2 Installing



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Perform the following:

– Line up the inner door seal -1- with the vulcanized point -arrow b- with the upper hinge -arrow b-.

– Start installing the inner door seal at the top of the opening for the door -arrow a-.

– Install the sill panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels; Sill Panel, Removing and Installing .

– Install the pillar trim panels. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels .

2.16 Outer Door Seal, Removing and Installing

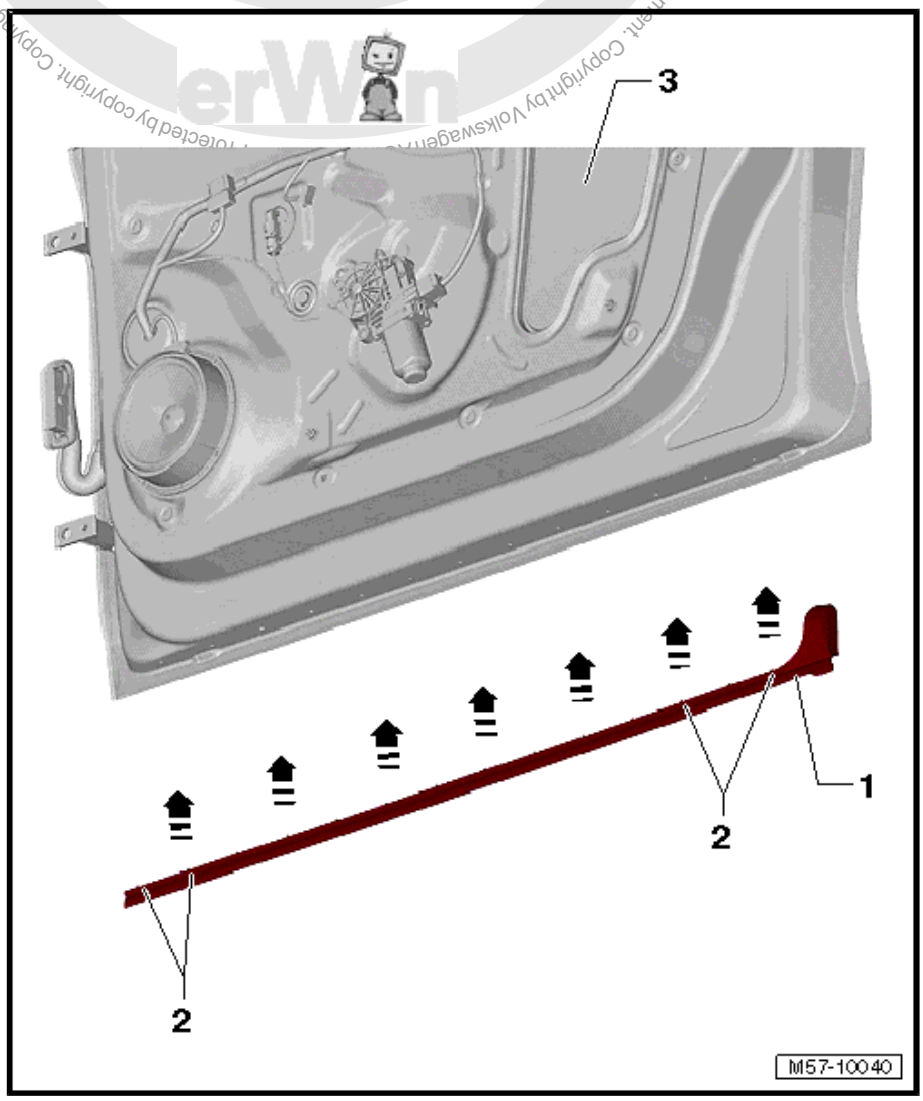
⇒ “2.16.1 Removing”, page 119

⇒ “2.16.2 Installing”, page 120

2.16.1 Removing

Note

- *The following describes removing and installing the right outer door seal. Removing and installing the left outer door seal is identical.*
- *Check clips for securing the outer door seal for damage and replace if necessary.*

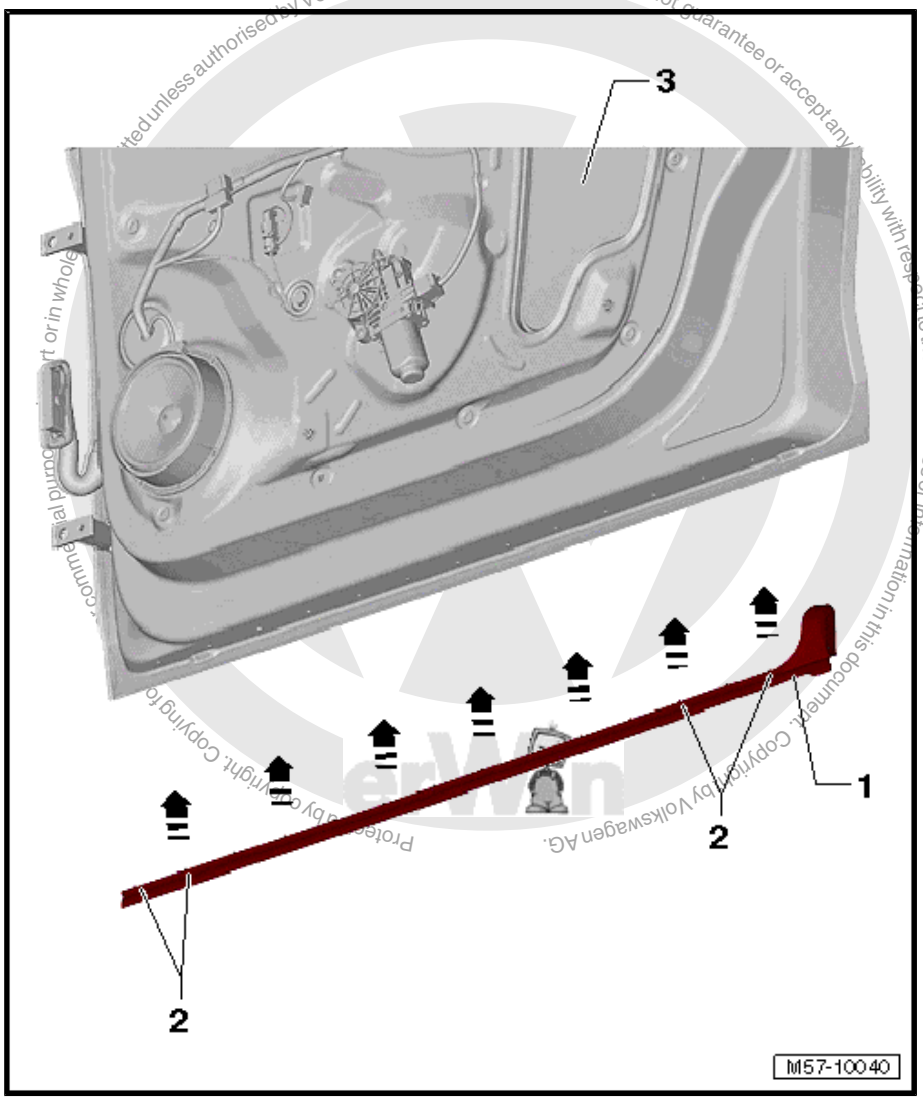


Perform the following:

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

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2.16.2 Installing



Perform the following:

– Press the seal -1- and clips -2- onto the door -3- starting at the A-pillar.

2.17 Overview - Insulation

WARNING

Before installing the door trim panel, check that any holes in the door panel are sealed with the corresponding adhesive. Refer to ⇒ "2.17 Overview - Insulation", page 121 .

1 - Foam Piece

- ❑ Clamped in the mirror triangle

2 - Foam Piece

- ❑ Clipped to the door

3 - Sticker

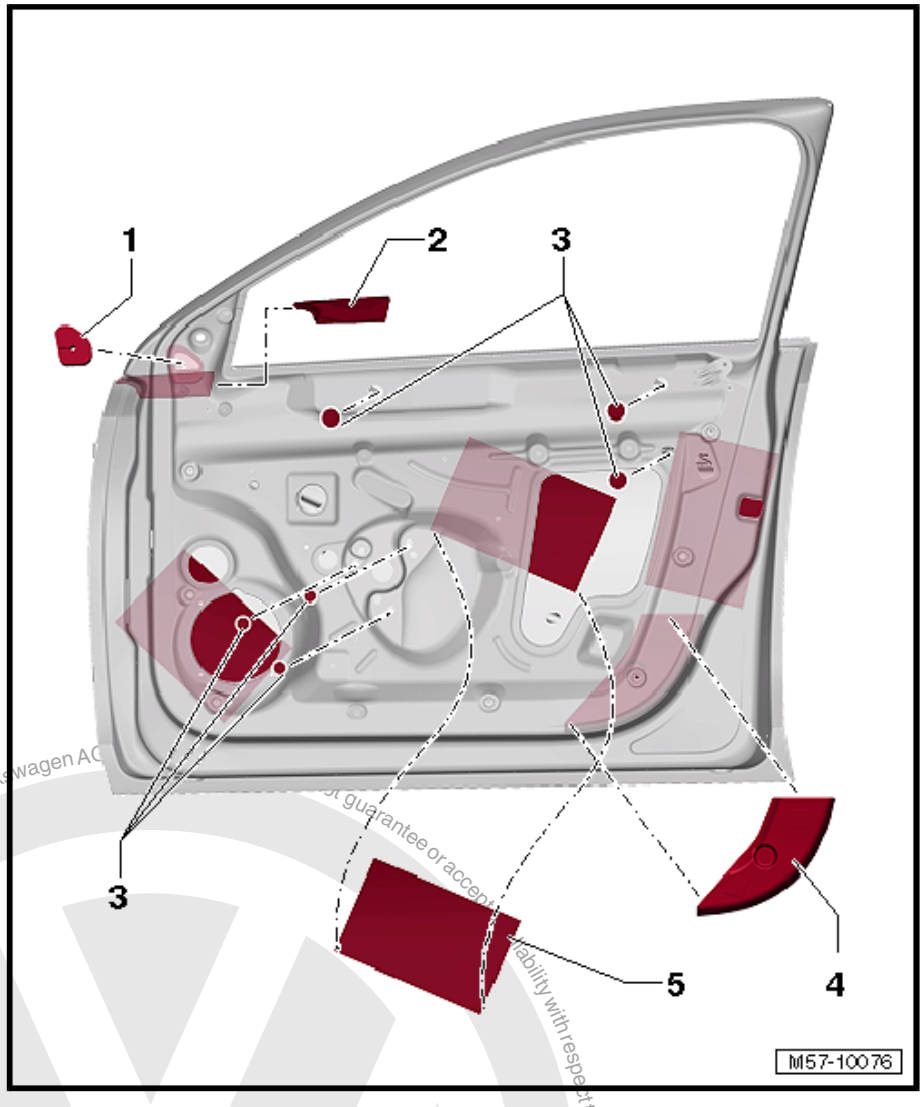
- ❑ Use commercially available duct tape if needed

4 - Outer Covering

- ❑ Installed depending on the market. Refer to the Parts Catalog for the allocation.

5 - Insulation

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



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3 Central Locking

⇒ “3.1 Component Location Overview - Central Locking Components”, page 122

⇒ “3.2 Remote Control Keys, Adapting”, page 124

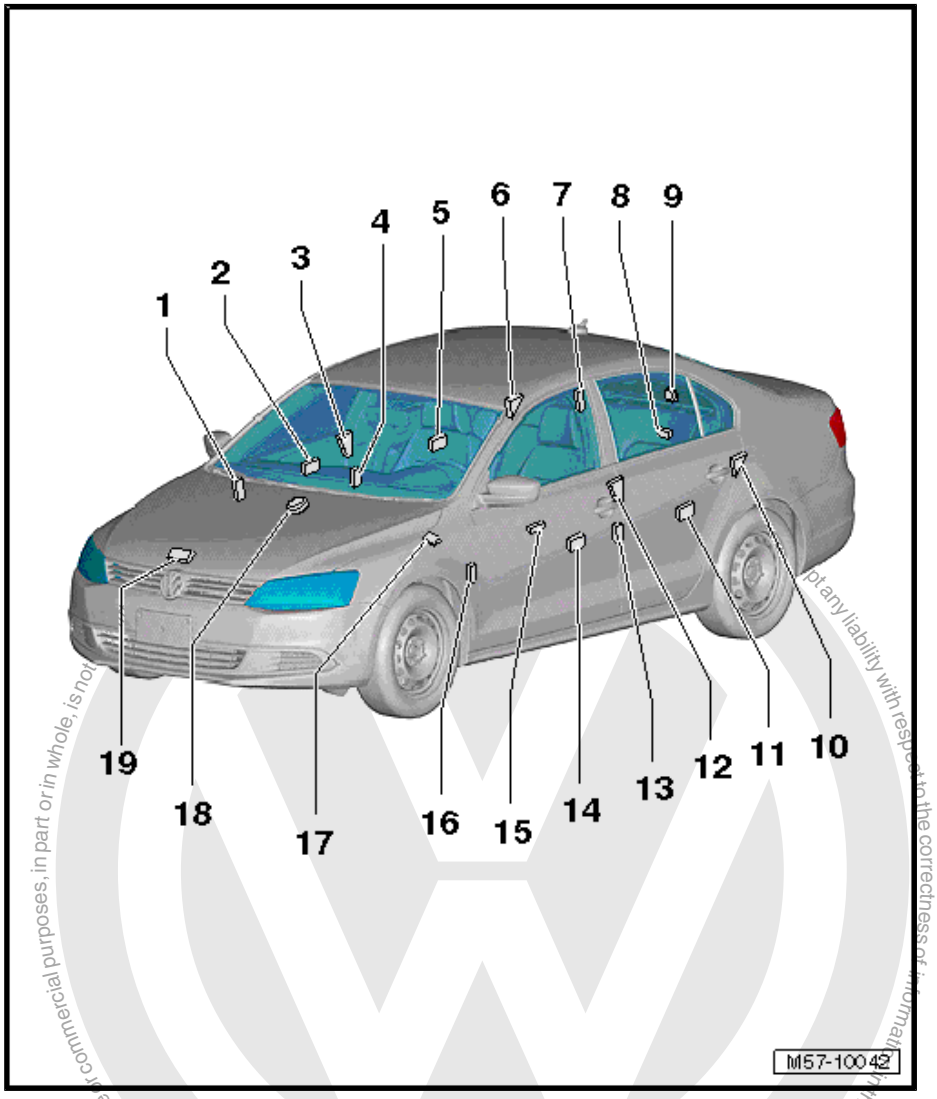
⇒ “3.3 Overview - Remote Control Key (Foldable) Battery”, page 124

⇒ “3.4 Remote Control Key Battery, Foldable, Removing and Installing”, page 125

⇒ “3.5 Overview - Battery, Folding Key with Cap”, page 126

⇒ “3.6 Battery, Removing and Installing, Folding Key with Cap”, page 127

3.1 Component Location Overview - Central Locking Components



1 - Connector Station

- ❑ Component location: left A-pillar
- ❑ Loosen the boot on the pillar to disconnect the connector

2 - Front Passenger Door Control Module - J387-

- ❑ Integrated inside the Front Passenger Window Regulator Motor - V148-
- ❑ Removing and installing. Refer to ⇒ “2.4 Window Regulator Motor, Removing and Installing”, page 228 .

3 - Front Passenger Door Lock

- ❑ The door lock is attached to the door inner panel
- ❑ The power central locking system is integrated in the door lock
- ❑ Removing and installing. Refer to ⇒ “2.11 Door Lock, Removing and Installing”, page 106 .

4 - Connector Station

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

5 - Right Rear Door Control Module - J389-

- ❑ Integrated inside the Right Rear Window Regulator Motor - V27-
- ❑ Removing and installing. Refer to ⇒ “3.4 Window Regulator Motor, Removing and Installing”, page 246 .

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6 - Right Rear Door Lock

- ❑ The door lock is attached to the door inner panel
- ❑ The power central locking system is integrated in the door lock
- ❑ Removing and installing. Refer to ⇒ “2.9 Door Lock, Removing and Installing”, page 151 .

7 - Fuel Filler Door Unlock Motor - V155-

- ❑ Removing and installing. Refer to ⇒ “3.4 Fuel Filler Door Unlock Motor V155 , Removing and Installing”, page 76 .

8 - Rear Lid Latch

- ❑ Installed location: on the rear lid
- ❑ Removing and installing. Refer to ⇒ “2.13 Latch, Removing and Installing”, page 68 .

9 - Release Button In Rear Lid Handle - E234-

- ❑ Installed location: on the rear lid
- ❑ Removing and installing. Refer to ⇒ “2.12 Rear Lid Handle Unlock Switch E234 , Removing and Installing”, page 67 .

10 - Left Rear Door Lock

- ❑ The door lock is attached to the door inner panel
- ❑ The power central locking system is integrated in the door lock
- ❑ Removing and installing. Refer to ⇒ “2.9 Door Lock, Removing and Installing”, page 151 .

11 - Left Rear Door Control Module - J388-

- ❑ Integrated inside the Left Rear Window Regulator Motor - V26-
- ❑ Removing and installing. Refer to ⇒ “3.4 Window Regulator Motor, Removing and Installing”, page 246 .

12 - Driver Side Door Lock

- ❑ The door lock is attached to the door inner panel
- ❑ The power central locking system is integrated in the door lock
- ❑ Removing and installing. Refer to ⇒ “2.11 Door Lock, Removing and Installing”, page 106 .

13 - Connector Station

- ❑ Component location: left B-pillar
- ❑ Loosen the boot on the pillar to disconnect the connector

14 - Driver Door Control Module - J386-

- ❑ Integrated inside the Driver Window Regulator Motor - V147-
- ❑ Removing and installing. Refer to ⇒ “2.4 Window Regulator Motor, Removing and Installing”, page 228 .

15 - Driver Side Window Regulator Switch Module

- ❑ Component location: inside the driver door trim panel
- ❑ Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 96 .

16 - Connector Station

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

17 - Vehicle Electrical System Control Module - J519-

- ❑ Installed location: under the instrument panel on the driver side; clipped to the relay panel
- ❑ Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 97 ; Control Modules; Vehicle Electrical System Control Module - J519- , Removing and Installing /

18 - Alarm Horn - H12-

- ❑ Component location: inside the plenum chamber
- ❑ Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 96 ; Anti-Theft Alarm System; Alarm Horn - H12- , Removing and Installing .

19 - Engine Hood Contact Switch - F266-

- ❑ Component location: on the latch

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❑ Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 96 ; Anti-Theft Alarm System; Engine Hood Contact Switch - F266- , Removing and Installing .

3.2 Remote Control Keys, Adapting

Use the Vehicle Diagnostic Tester to adapt the remote control keys.

– Select “Guided Functions” on the Vehicle Diagnostic Tester - VAS5051 B- .

– Using the GO TO button, select “Functions/Component selection” and the following menu options one after the other:

♦ Body

♦ Electrical Equipment (repair group. 01; 27; 90 to 97)

♦ 01 - OBD-capable systems

♦ 09 - Vehicle electrical system control module

♦ 09 - Functions

♦ Adapt the remote control key

3.3 Overview - Remote Control Key (Foldable) Battery

1 - Key with Variable Code Transponder

2 - Radio Frequency Unit - Upper Section

3 - LED

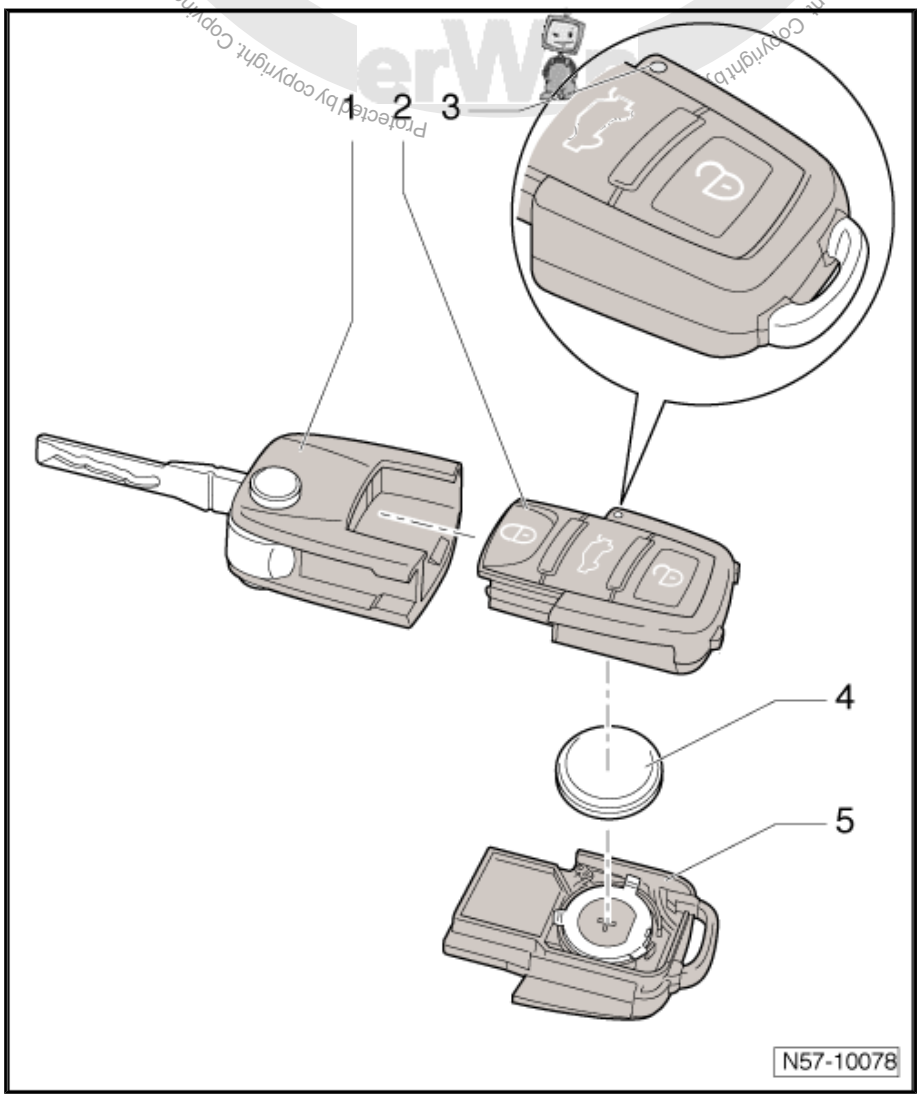
❑ This LED must blink when remote control is operated.

❑ If LED does not blink when using the remote control, replace the battery.

4 - Battery

❑ Removing and installing. Refer to ⇒ “3.4 Remote Control Key Battery, Foldable, Removing and Installing”, page 125 .

5 - Radio Frequency Unit - Lower Section



3.4 Remote Control Key Battery, Foldable, Removing and Installing

⇒ “3.4.1 Removing”, page 125

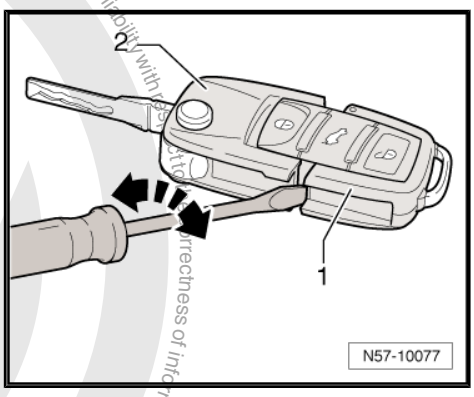
⇒ “3.4.2 Installing”, page 125

3.4.1 Removing

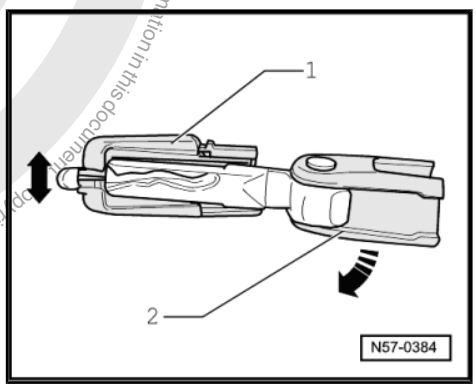
Perform the following:

– Insert a screwdriver into the slot between the radio-frequency unit -1- and the key -2-.

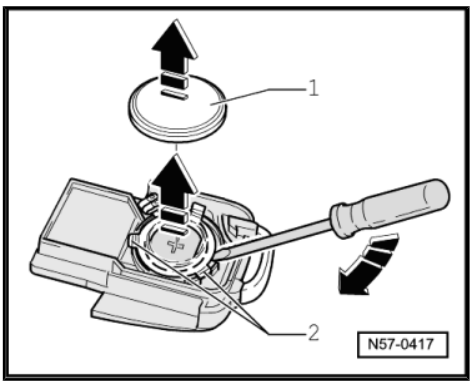
– Turn the screwdriver in the direction of the -arrow- and detach the radio-frequency unit from the key.



– Press apart the radio-frequency unit -1- using key bit of key -2-.



– Use a screwdriver to pry the battery -1- out of the retainer -2- in the direction of the -arrow-.



3.4.2 Installing

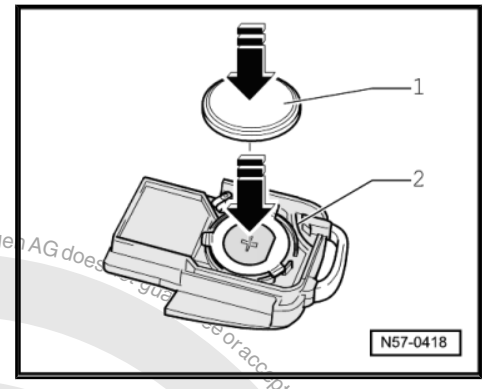
Note

- *Before installing the battery, one of the buttons must be pushed.*
- *This resets the radio-frequency unit, and it can now recognize the new battery.*

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Perform the following:

Note the polarity and installation position when installing the battery.



- Place the battery -1- in the radio-frequency unit -2- with positive terminal downward (positive terminal is marked in housing).
- Press the battery in direction of -arrow- gently into the radio-frequency unit.
- Assemble the cover and the radio-frequency unit being careful not to damage the seal.
- Then engage the radio-frequency unit with the key.

3.5 Overview - Battery, Folding Key with Cap

1 - Key with Radio-Frequency Unit

- ❑ Adaptation of remote control keys. Refer to ⇒ “3.2 Remote Control Keys, Adapting”, page 124 .
- ❑ The radio-frequency unit cannot be replaced separately

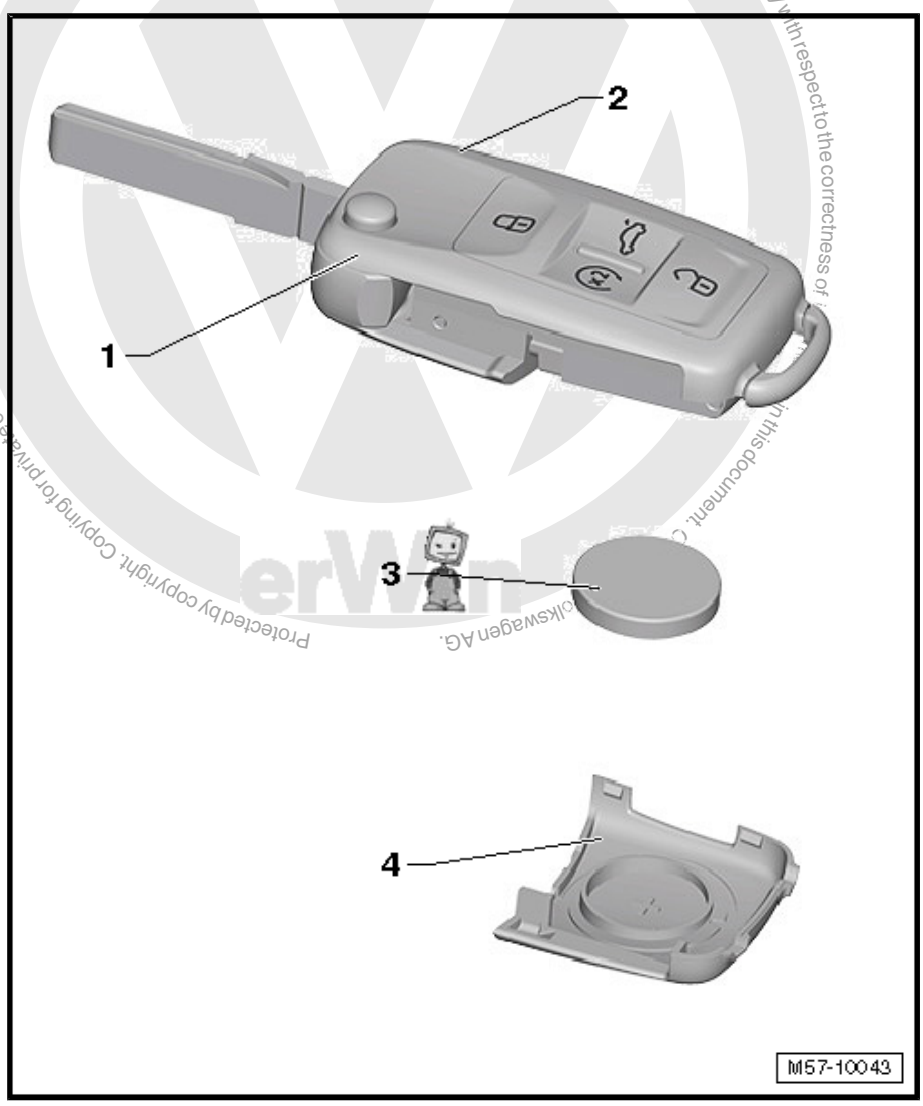
2 - LED

- ❑ This LED must blink when remote control is operated.
- ❑ If LED does not blink when using the remote control, replace the battery.

3 - Battery

- ❑ Removing and installing. Refer to ⇒ “3.6 Battery, Removing and Installing, Folding Key with Cap”, page 127 .

4 - Cap



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3.6 Battery, Removing and Installing, Folding Key with Cap

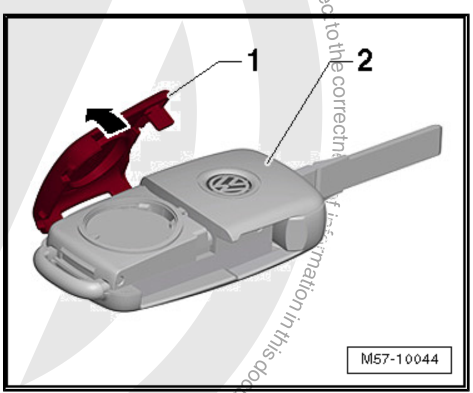
⇒ “3.6.1 Removing”, page 127
⇒ “3.6.2 Installing”, page 127

3.6.1 Removing

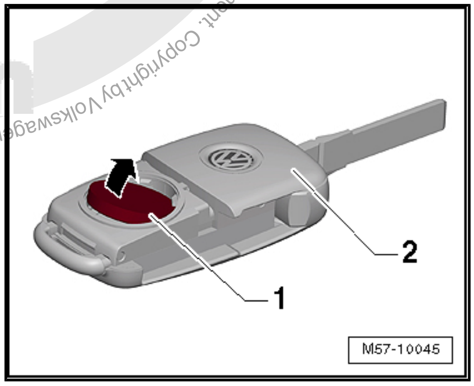
Perform the following:

– Fold out the key blade.

– Pry off the cap -1- on the back of the key -2- in direction of the -arrow- with a screwdriver.



– Remove the battery -1- from the key -2- in the direction of the -arrow- with a screwdriver.



3.6.2 Installing

Note

♦ *Before installing the battery, one of the buttons must be pushed.*

♦ *This resets the radio-frequency unit, and it can now recognize the new battery.*

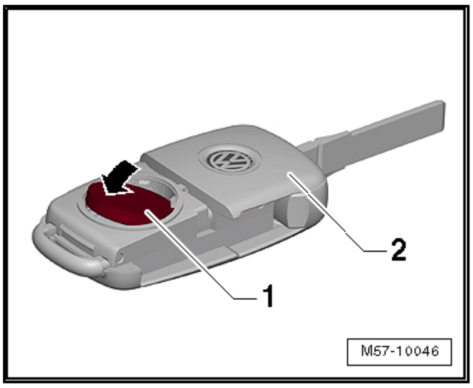
Perform the following:

Note the polarity and installation position when installing the battery.

– Place the battery -1- inside the battery compartment with the positive side facing up -2- -arrow-.

– Push the battery gently into the battery compartment.

– Install the cap onto the back of the key.

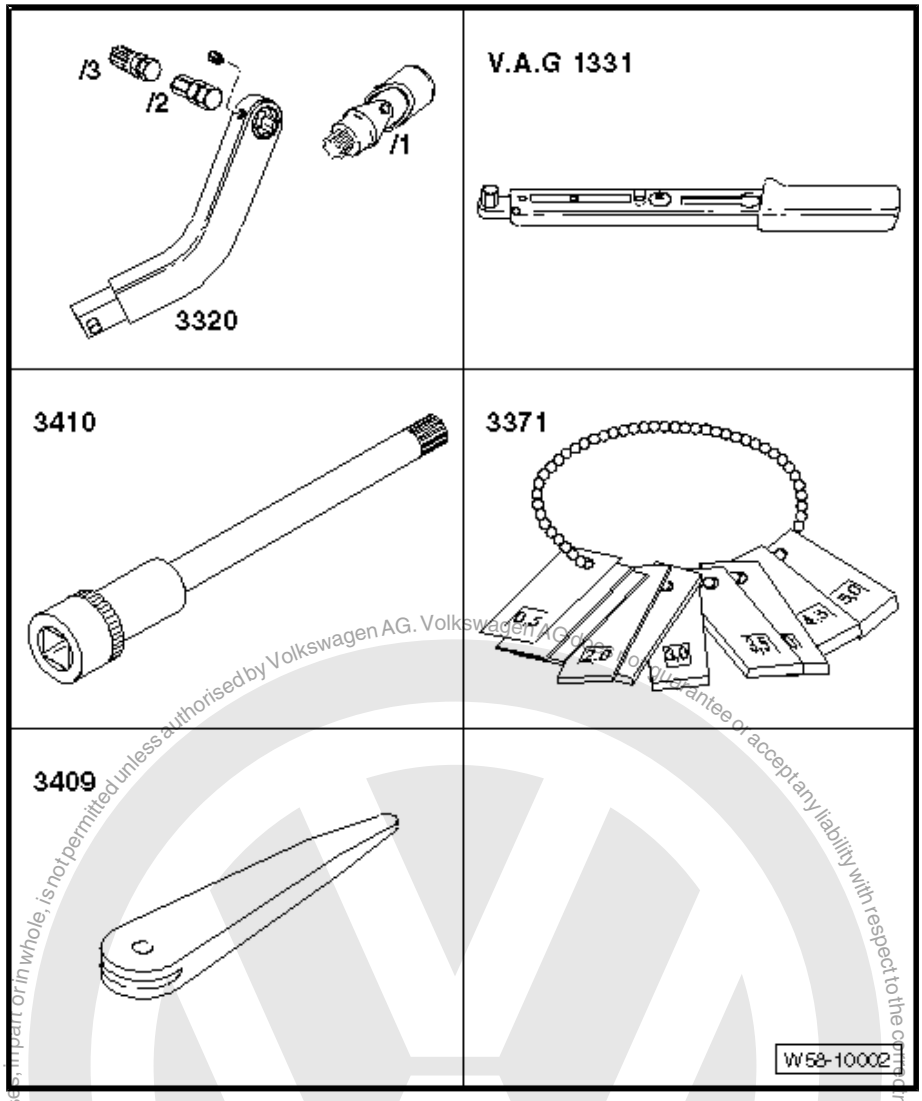


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4 Special Tools

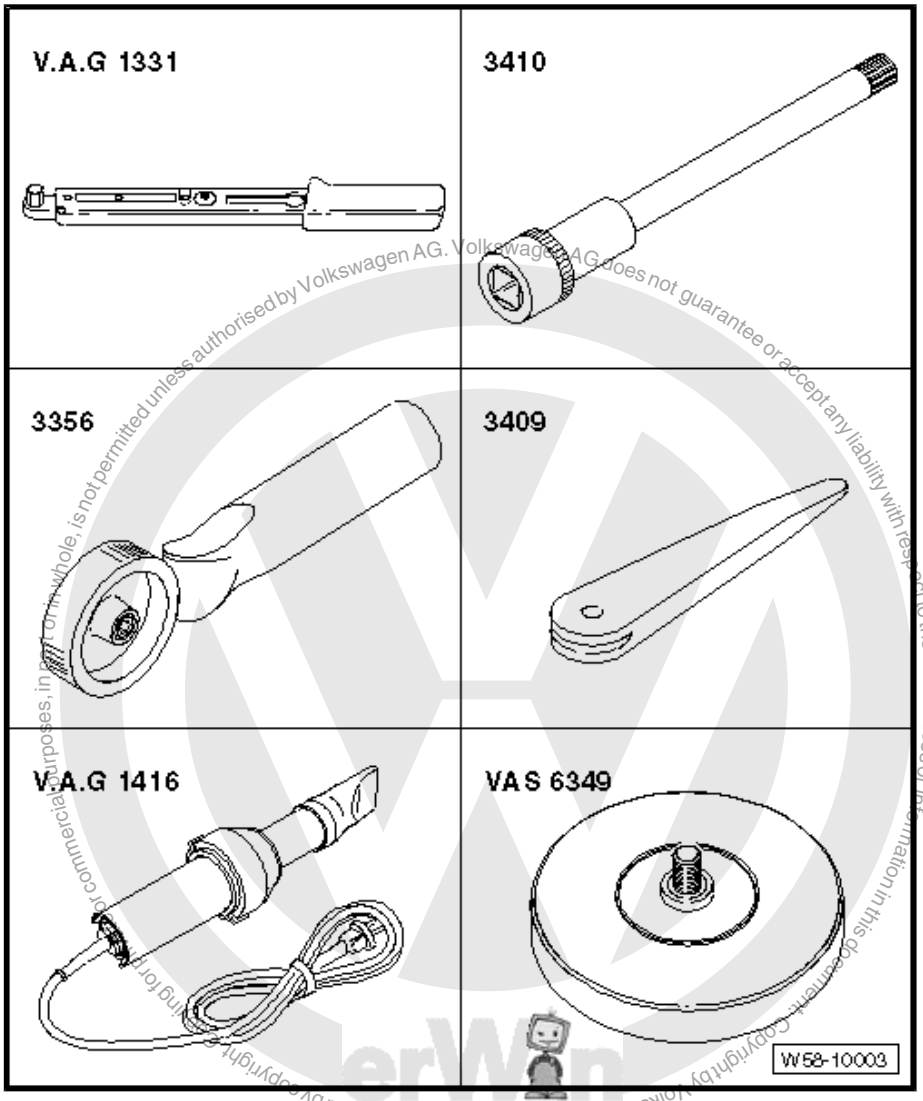
Special tools and workshop equipment required

- Torque Wrench 1331 5-50Nm - VAG1331-
- Wrench - Door Adjusting - 3320-
- Joint for 3320 Tool - 3320/1-
- Wrench - Door Adjusting - Box Wrench - 3320/2-
- Wrench - Door Adjusting - Box Wrench - 3320/3-
- Roller - 3356-
- Gauge - Gap Adjustment - 3371-
- Trim Removal Wedge - 3409-
- Cylinder Head Bolt Socket - 3410-



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- Hot Air Blower - VAG1416-
- Adhesive Strip Remover - VAS6349-



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58 – Rear Doors

1 Rear Door

⇒ “1.1 Tools”, page 130
⇒ “1.2 Overview - Door Hinges”, page 130
⇒ “1.3 Door, Removing and Installing”, page 132
⇒ “1.4 Installing after Replacing B-Pillar”, page 134
⇒ “1.5 Door Adjustment”, page 135

1.1 Tools

Special tools and workshop equipment required

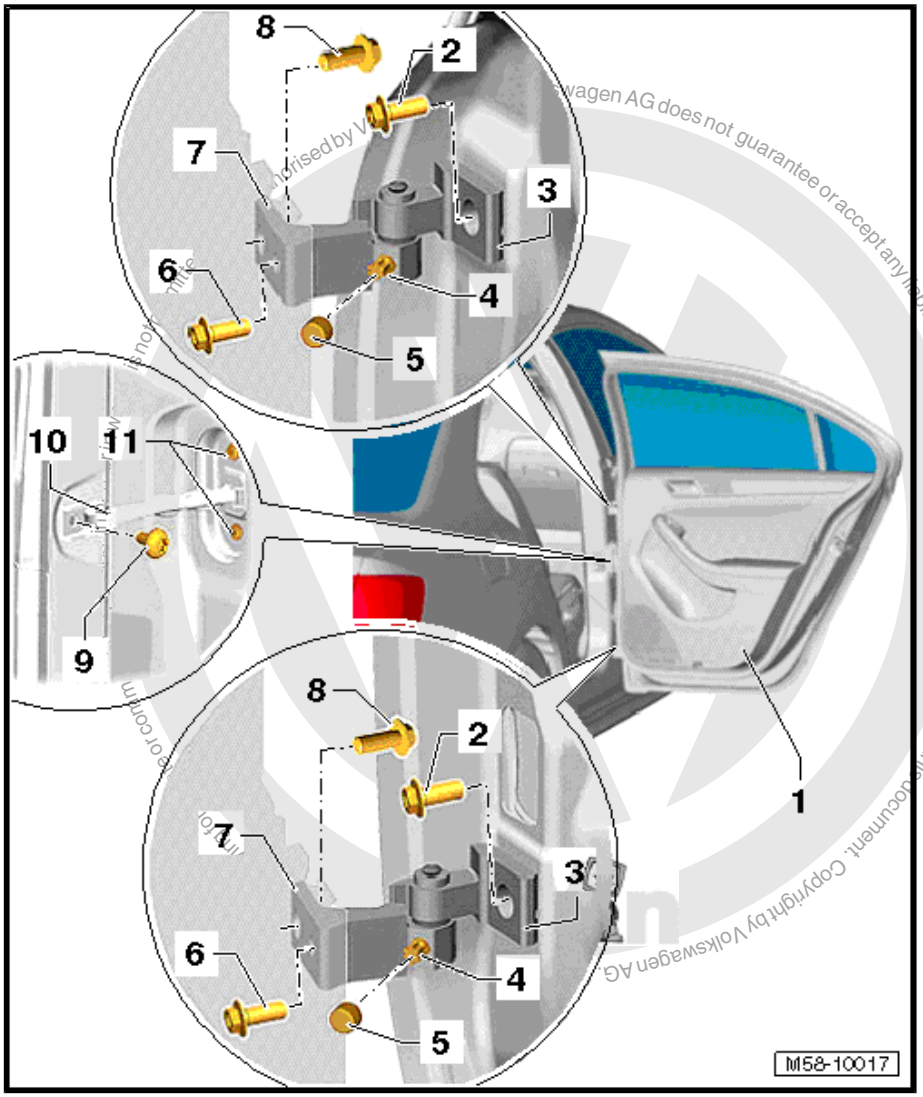
- Wrench - Door Adjusting - 3320-
- Door Adjusting Wrench - Joint - 3320/1-
- Wrench - Door Adjusting - Box Wrench - 3320/2-
- Wrench - Door Adjusting - Box Wrench - 3320/3-
- Gauge - Gap Adjustment - 3371-
- Trim Removal Wedge - 3409-
- Cylinder Head Bolt Socket - 3410-
- Torque Wrench 1331 5-50Nm -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

1.2 Overview - Door Hinges

Note

- *The illustration shows the right side. The left side is identical.*
- *Always replace the door hinge bolts if they have been loosened.*

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1 - Door

- ❑ Removing and installing. Refer to ⇒ “1.3 Door, Removing and Installing”, page 132 .
- ❑ Refer to ⇒ “1.5 Door Adjustment”, page 135 for adjusting.

2 - Bolt

- ❑ Tightening specification: 40 Nm
- ❑ Always replace. It is permitted to loosen the bolt just one time when adjusting the door.

3 - Door Hinge

- ❑ The hinge has two sections.
- ❑ A bolt -4- attaches the upper section to the lower section.

4 - Bolt

- ❑ Tightening specification: 23 Nm.
- ❑ Attaches the upper section -3- to the lower section -7-

5 - Cap

- ❑ Place over the bolt -4-

6 - Bolt

- ❑ Tightening specification: 40 Nm
- ❑ Always replace. It is permitted to loosen the bolt just one time when adjusting the door.
- ❑ Installed from the vehicle interior
- ❑ The B-pillar lower trim must be removed for removing and installing. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels .
- ❑ Follow the tightening specifications after replacing the B-pillar. Refer to ⇒ “1.4 Installing after Replacing B-Pillar”, page 134

7 - Door Hinge

- ❑ The hinge has two sections.
- ❑ A bolt -4- attaches the lower section to the upper section.

8 - Bolt

- ❑ Tightening specification: 40 Nm
- ❑ Always replace. It is permitted to loosen the bolt just one time when adjusting the door.
- ❑ Follow the tightening specifications after replacing the B-pillar. Refer to ⇒ “1.4 Installing after Replacing B-Pillar”, page 134

9 - Bolt

- ❑ Tightening specification: 30 Nm

10 - Door Strap

- ❑ Removing and installing. Refer to ⇒ “2.4 Door Strap, Removing and Installing”, page 141 .

11 - Bolt

- ❑ Tightening specification: 9 Nm

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❑ Quantity: 2

1.3 Door, Removing and Installing

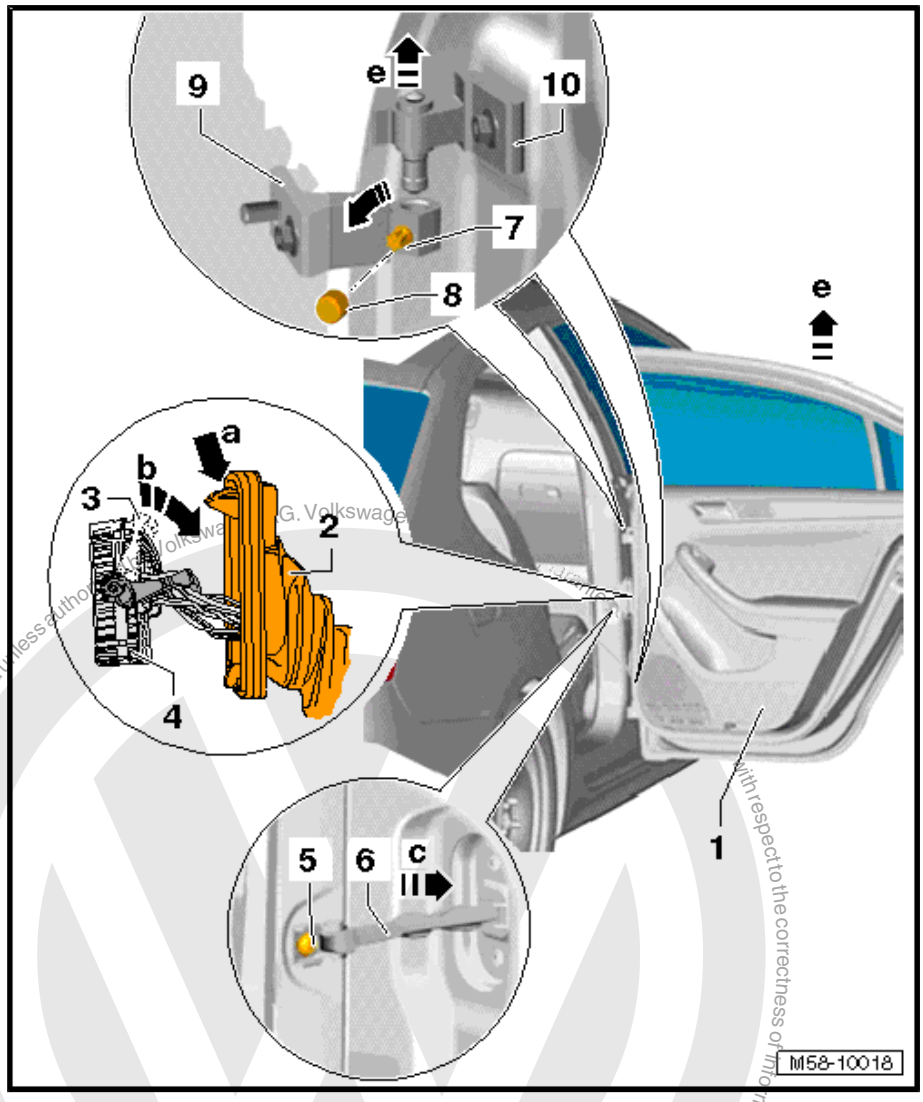
⇒ “1.3.1 Removing”, page 132

⇒ “1.3.2 Installing”, page 133

1.3.1 Removing

Note

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



Perform the following:

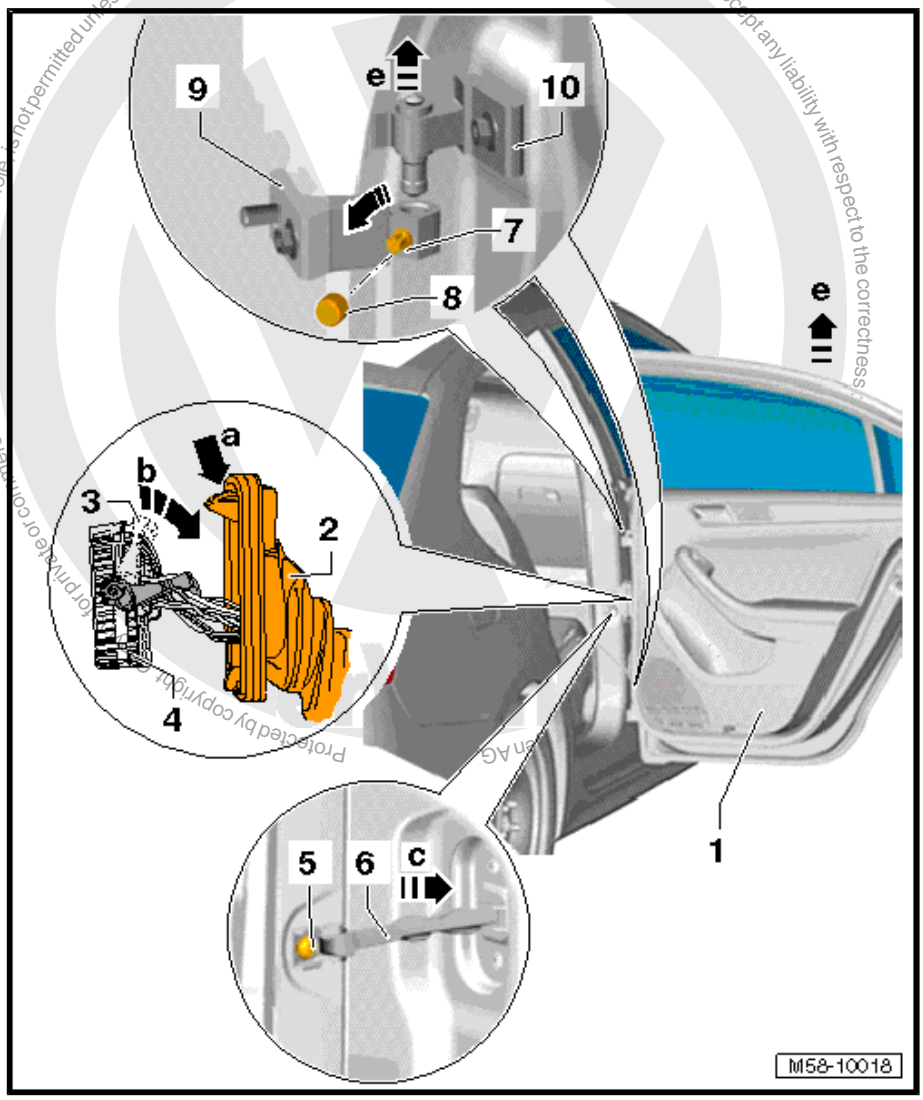
– Press on the catch -arrow a- and remove the boot -2- from the B-pillar.

– Swing the locking lever -3- downward in direction of -arrow b- and disconnect the connector -4- from connector station.

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– Remove the caps -8- from the bolts -7-.
– Loosen the bolts -7- on the hinges -arrow d-.
– Remove the bolt -5- from the door strap -6-.
– Push the door strap -6- toward the inside in direction of -arrow c-.
– Lift the door -1- upward in direction of -arrow e- out of the hinges -9-.

1.3.2 Installing



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Perform the following:

Install in reverse order of removal.

Bolt tightening specification -5-: 30 Nm

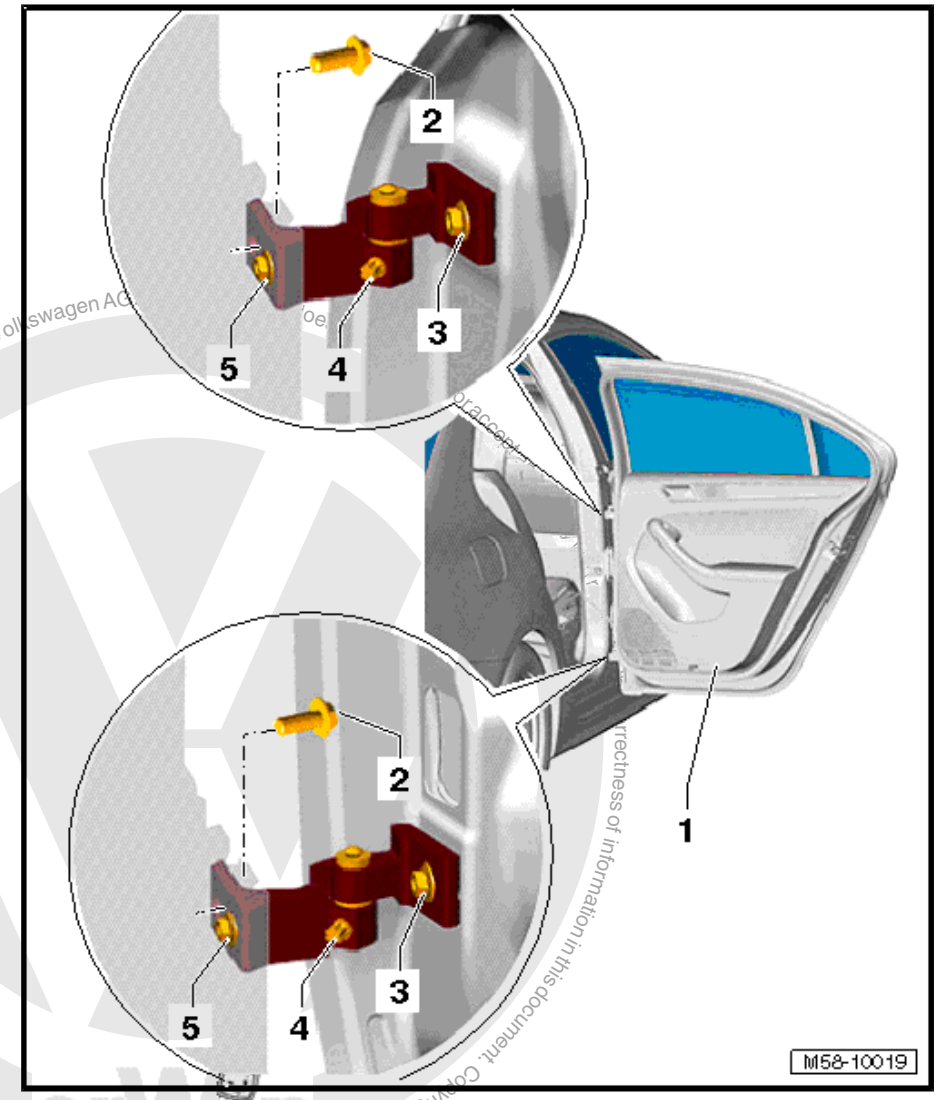
Bolt tightening specification -7-: 23 Nm

– Adjust the door. Refer to ⇒ “1.5 Door Adjustment”, page 135 .
– Make sure the rear door gap dimensions are correct. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .

1.4 Installing after Replacing B-Pillar

WARNING

If the B-pillar was replaced, then tighten the bolts on the B-pillar exactly as described.



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Perform the following:

Install in reverse order of removal.

- Install the door -1- and tighten the bolts -2 and 5- to 20 Nm and 90°.
- Adjust the door. Refer to ⇒ “1.5 Door Adjustment”, page 135 .
- Make sure the front door gap dimensions are correct. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .

1.5 Door Adjustment

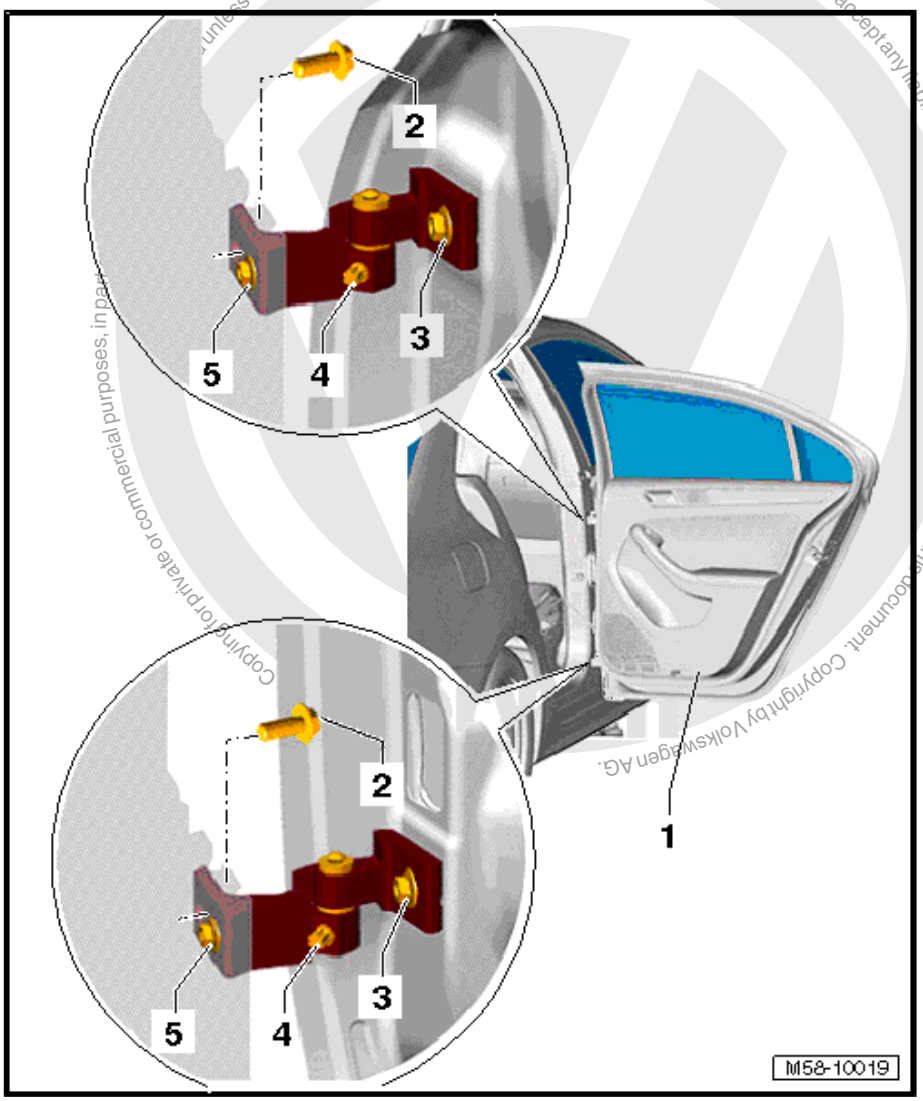
⇒ “1.5.1 Door, Adjusting Gap Dimension and Flush Dimension”, page 135

⇒ “1.5.2 Striker Pin, Adjusting”, page 136

1.5.1 Door, Adjusting Gap Dimension and Flush Dimension

Note

- *The vehicle must standing on all four wheels when adjusting the rear door.*
- *The rear door is properly adjusted when there is an overall even gap dimension when closed. It is not too far toward the inside or the outside and the contours align.*
- *Checking the gap dimensions. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions .*
- *Perform corrosion protection measures on the hinges and the bolts after assembling or adjusting.*



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Perform the following:

Gap Dimensions, Adjusting

For the correct gap dimension adjustment, the bolts -2 and 5- on the B-pillar must be loosened.

– To remove the bolts -5-, the B-pillar lower trim must be removed. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels .

Flush Dimension Adjustment

The bolts -3- must be loosened in order to adjust the flush dimensions correctly.

Use the Wrench - Door Adjusting - 3320- with the respective bit for this.

Note

Other measures, such as aligning the door upward, do not work. Pressure later will cause the door to sag again.

Adjust the striker pin. Refer to
⇒ “1.5.2 Striker Pin, Adjusting”, page 136 .

1.5.2 Striker Pin, Adjusting

Note

- *The following describes adjusting the right rear door. Adjusting the left rear door is identical.*
- *When closing, the door must lock completely without applying additional force and it must not have any play.*
- *By adjusting the catch, the door must not be pushed upward or downward.*

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

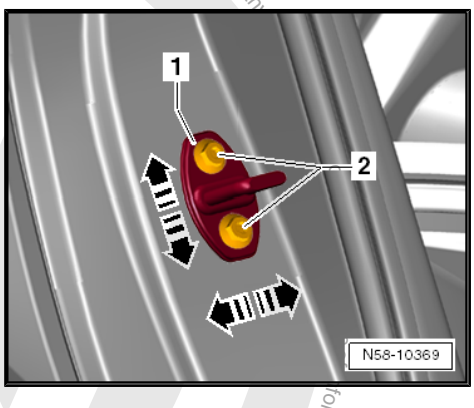
Perform the following:

– Loosen the bolts -2- on the C-pillar and loosen the striker pin -1-.

– Adjust the door with lock bracket -1- so that the rear door aligns with side panel when closed (wind noise).

– Tighten the bolts -2- on the striker pin -1-.

Bolt tightening specification -2-: 25 Nm



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2 Door Components

⇒ “2.1 Tools”, page 137
⇒ “2.2 Overview - Rear Door”, page 137
⇒ “2.3 Cover, Removing and Installing”, page 139
⇒ “2.4 Door Strap, Removing and Installing”, page 141
⇒ “2.5 Striker Pin, Removing and Installing”, page 143
⇒ “2.6 Overview - Door Handle and Door Lock”, page 144
⇒ “2.7 Cap, Removing and Installing”, page 145
⇒ “2.8 Door Handle, Removing and Installing”, page 148
⇒ “2.9 Door Lock, Removing and Installing”, page 151
⇒ “2.10 Mounting Bracket, Removing and Installing”, page 154
⇒ “2.11 Inner Window Shaft Seal, Removing and Installing”, page 156
⇒ “2.12 Outer Window Shaft Seal, Removing and Installing”, page 158
⇒ “2.13 Inner Door Seal, Removing and Installing”, page 160
⇒ “2.14 Outer Door Seal, Removing and Installing”, page 163
⇒ “2.15 Overview - Insulation”, page 166

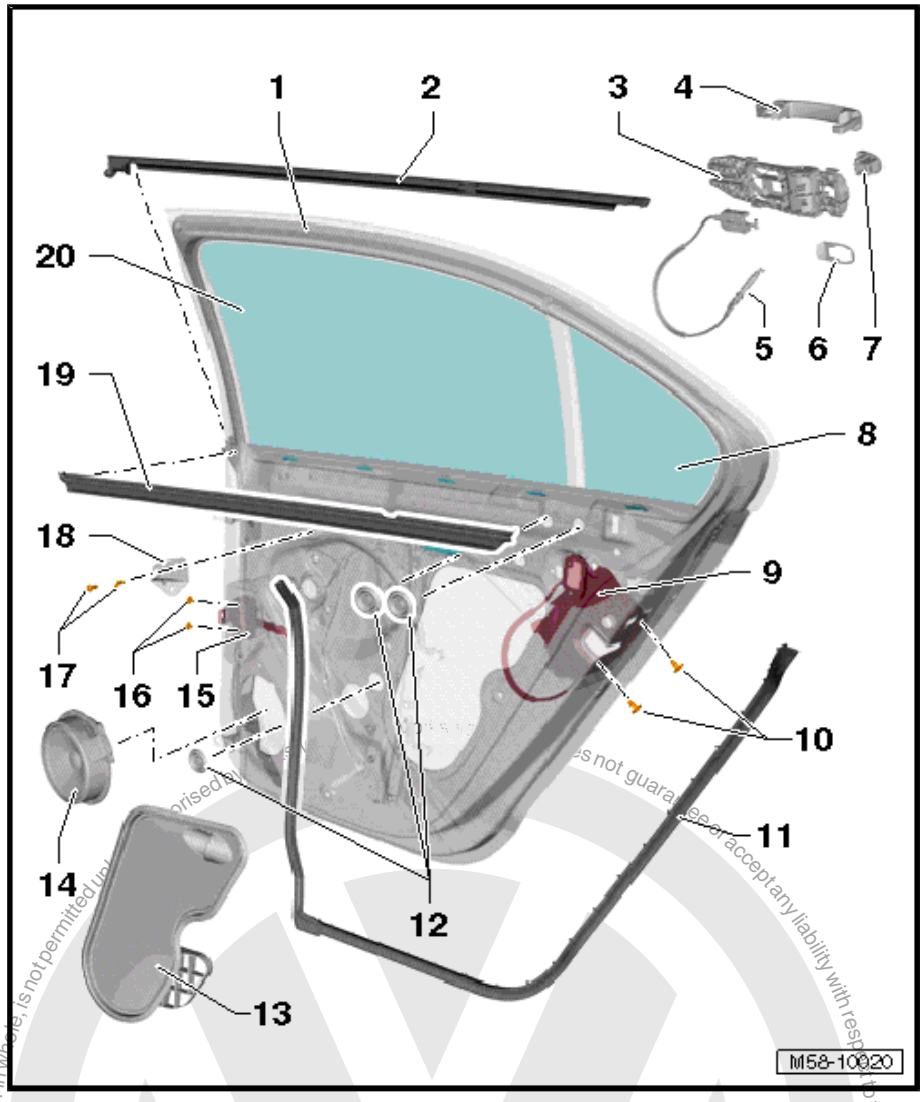
2.1 Tools

Special tools and workshop equipment required

- Roller - 3356-
- Trim Removal Wedge - 3409-
- Cylinder Head Bolt Socket - 3410-
- Torque Wrench 1331 5-50Nm - VAG1331-
- Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A-
- Adhesive Strip Remover - VAS6349-

2.2 Overview - Rear Door

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1 - Door

- ❑ Removing and installing. Refer to ⇒ “1.3 Door, Removing and Installing”, page 132 .
- ❑ Refer to ⇒ “1.5 Door Adjustment”, page 135 for adjusting.

2 - Outer Window Shaft Seal

- ❑ Note the different versions. Refer to ⇒ “2.12.1 Versions, Differentiating”, page 158 .
- ❑ Removing and installing. Refer to ⇒ “2.12 Outer Window Shaft Seal, Removing and Installing”, page 158 .

3 - Mounting Bracket

- ❑ Removing and installing. Refer to ⇒ “2.10 Mounting Bracket, Removing and Installing”, page 154 .

4 - Door Handle

- ❑ Removing and installing. Refer to ⇒ “2.8 Door Handle, Removing and Installing”, page 148 .

5 - Cable

- ❑ From the mounting bracket -3- to the door lock -9-
- ❑ Secured to the outer door panel with adhesive tape

6 - Backing Plate

7 - Cap

- ❑ Removing and installing. Refer to ⇒ “2.7 Cap, Removing and Installing”, page 145 .

8 - Fixed Door Window

- ❑ Removing and installing. Refer to ⇒ “3.7 Fixed Door Window, Removing and Installing”, page 255 .

9 - Door Lock

- ❑ Removing and installing. Refer to ⇒ “2.9 Door Lock, Removing and Installing”, page 151

10 - Bolt

- ❑ Tightening specification: 18 Nm.
- ❑ Quantity: 2

11 - Outer Door Seal

- ❑ Note the different versions. Refer to ⇒ “2.14.1 Versions, Differentiating”, page 163 .
- ❑ Removing and installing. Refer to ⇒ “2.14 Outer Door Seal, Removing and Installing”, page 163 .

12 - Cap

13 - Cover

- ❑ Removing and installing. Refer to ⇒ “2.3 Cover, Removing and Installing”, page 139 .

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14 - Speaker

- Riveted to the door

15 - Door Strap

- Removing and installing. Refer to ⇒ “2.4 Door Strap, Removing and Installing”, page 141 .

16 - Bolt

- Tightening specification: 9 Nm
- Quantity: 2

17 - Screw

- Tightening specification: 4 Nm.
- Quantity: 2

18 - Retaining Bracket

- For attaching the door trim panel

19 - Inner Window Shaft Seal

- Removing and installing. Refer to ⇒ “2.11 Inner Window Shaft Seal, Removing and Installing”, page 156 .

20 - Door Window

- Removing and installing. Refer to ⇒ “3.3 Door Window, Removing and Installing”, page 242 .

2.3 Cover, Removing and Installing

⇒ “2.3.1 Removing”, page 139

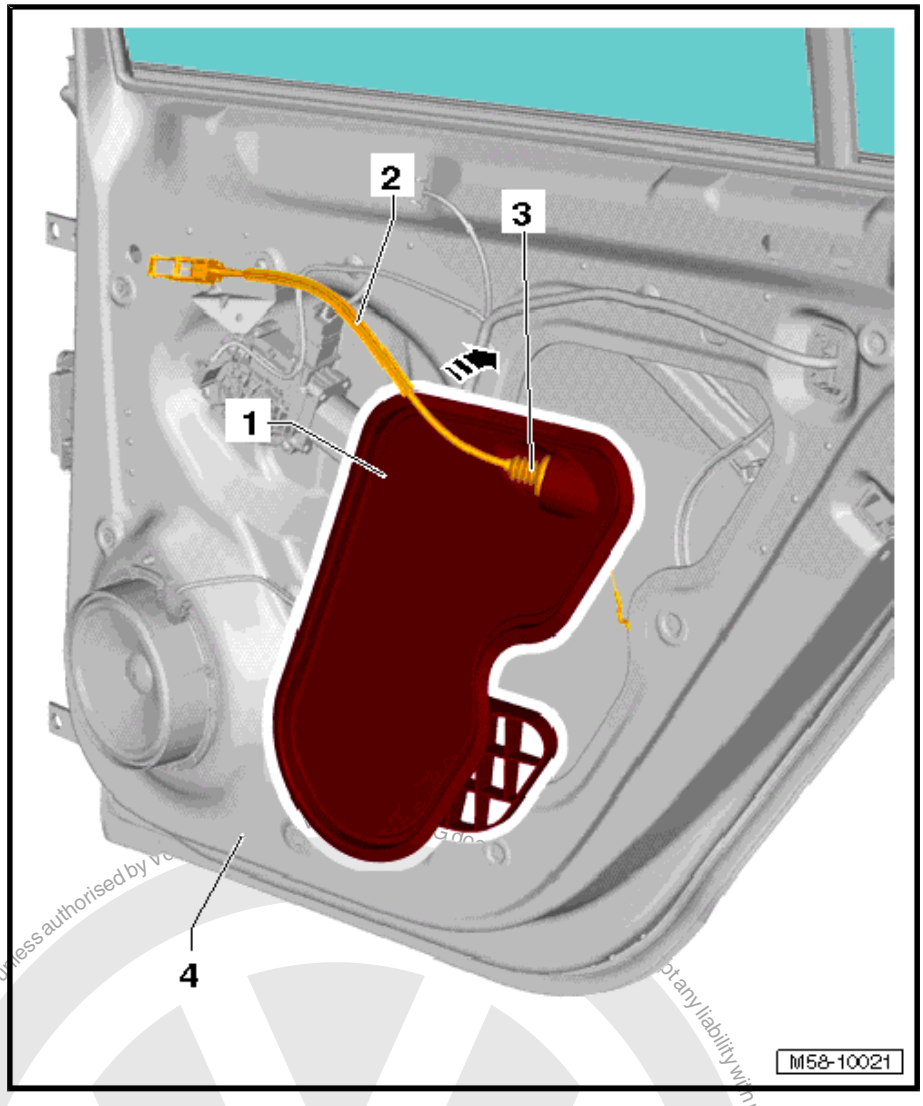
⇒ “2.3.2 Installing”, page 141

2.3.1 Removing

Note

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

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Perform the following:

– Remove the rear door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .
– Lift the cover -1- at the top.
– Remove the cover -1- from the door -4-.

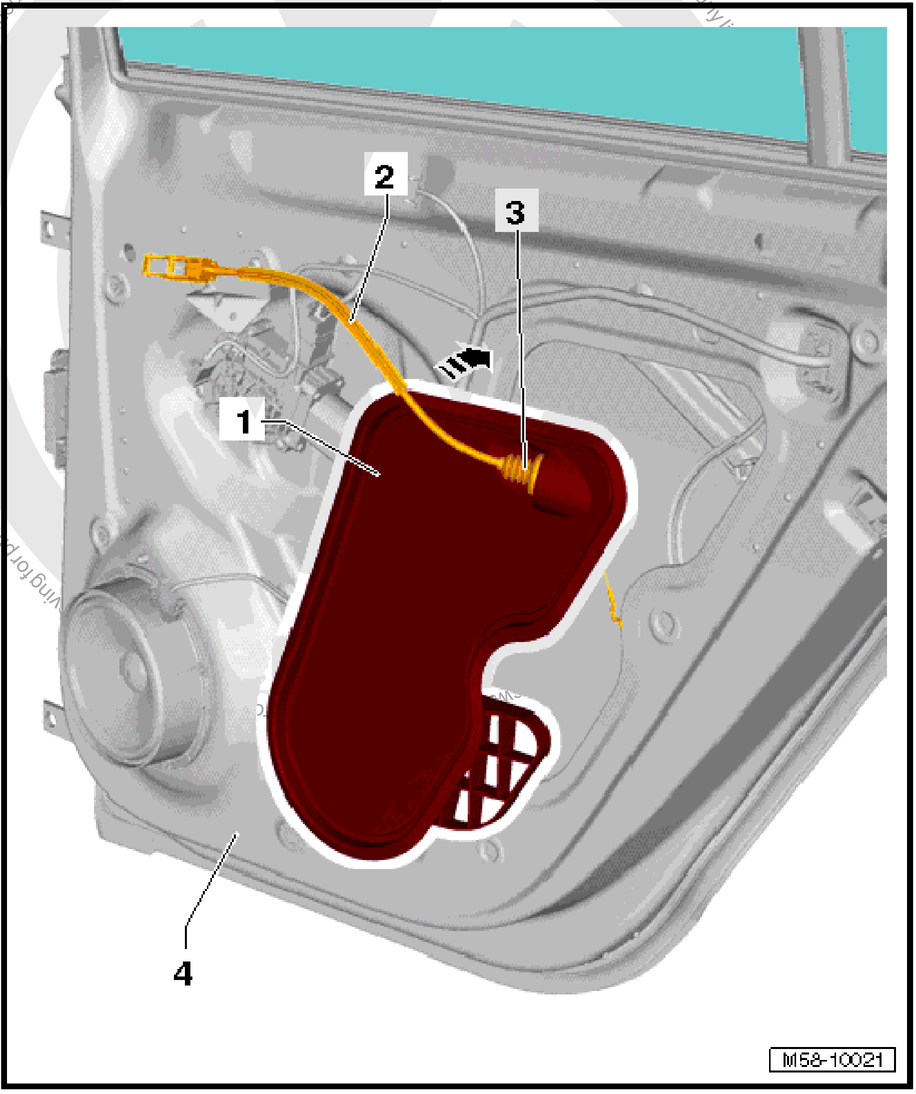
Note

If it is necessary for the following work steps, remove the cable -2- with the grommet -3- from the cover -1-.

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2.3.2 Installing



Perform the following:

– Pull the cable -2- through the cover -1- and secure the grommet -3-.

– Insert the bottom of the cover -1- into the door -4-.

– Push the top of the cover -1- into the door -4- -arrow-.

2.4 Door Strap, Removing and Installing

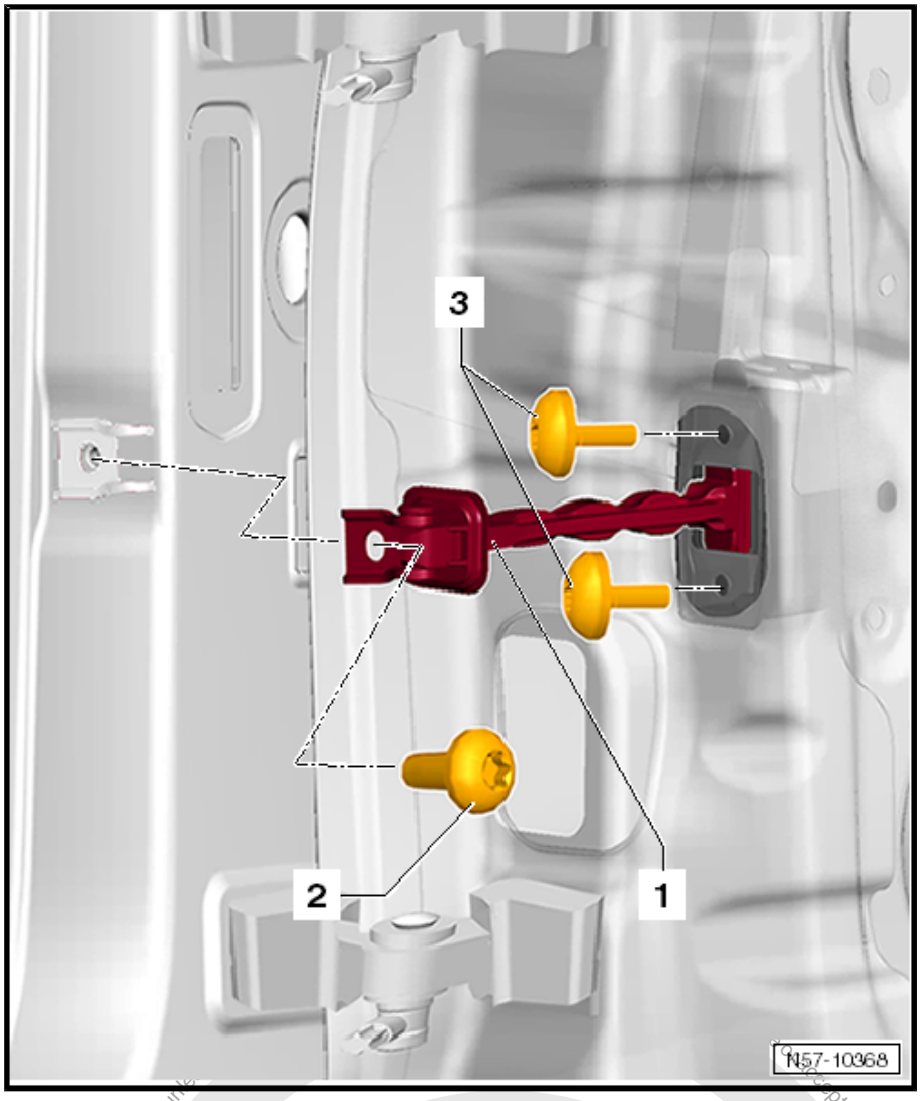
⇒ “2.4.1 Removing”, page 141

⇒ “2.4.2 Installing”, page 143

2.4.1 Removing

Note

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



Perform the following:

– Remove the rear door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

– Remove the riveted speaker.

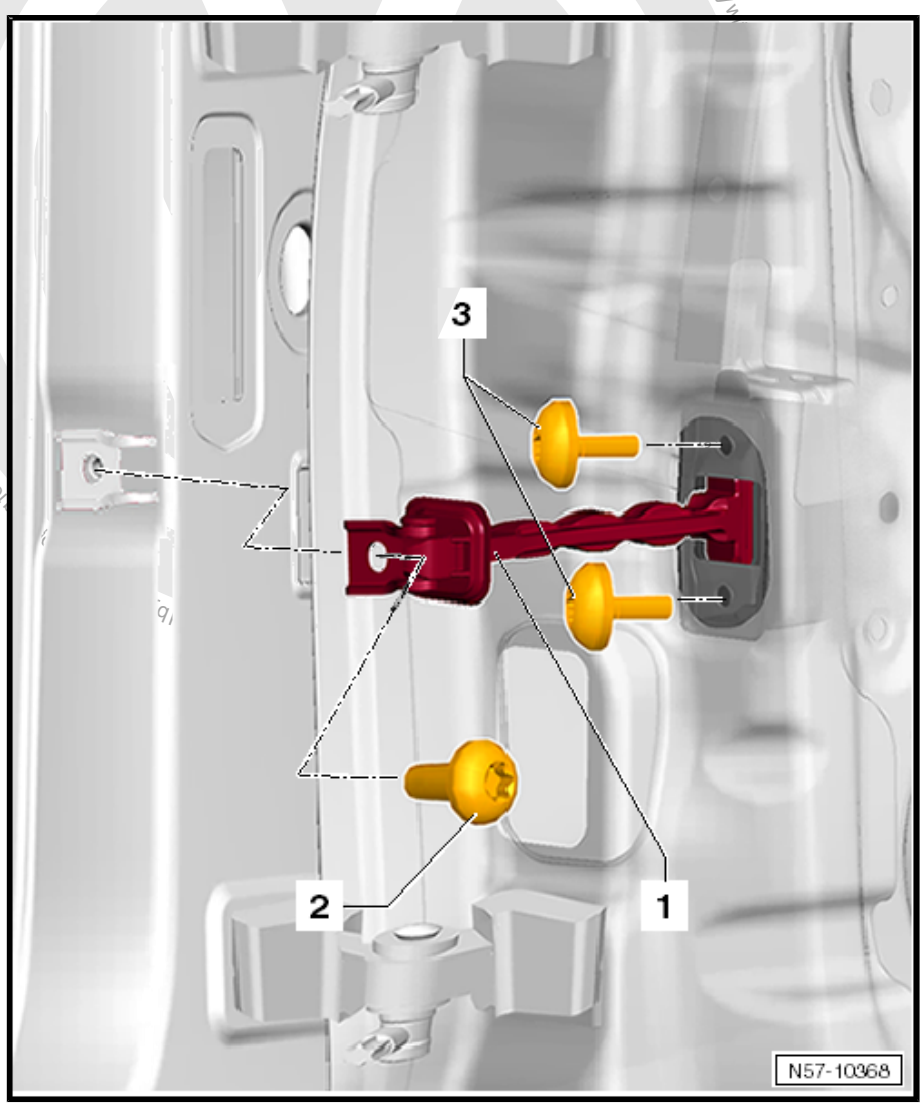
– Remove the bolt -2- from the B-pillar.

– Remove the bolts -3- and remove the door strap -1- through the opening for the speaker.

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2.4.2 Installing



Perform the following:

Install in reverse order of removal.

Tightening specification for the bolts -2-: 30 Nm

Tightening specification for the bolts -3-: 9 Nm

2.5 Striker Pin, Removing and Installing

⇒ “2.5.1 Removing”, page 143

⇒ “2.5.2 Installing”, page 144

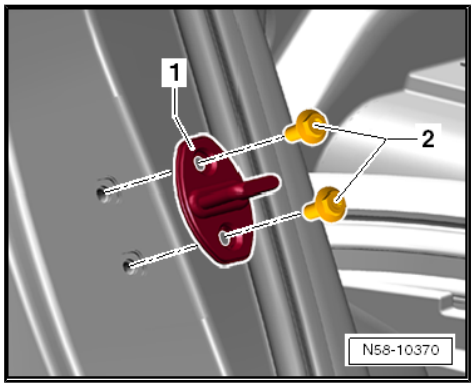
2.5.1 Removing

Note

The following describes the removal and installation of the right catch. Removing and installing the left striker pin is identical.

Perform the following:

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



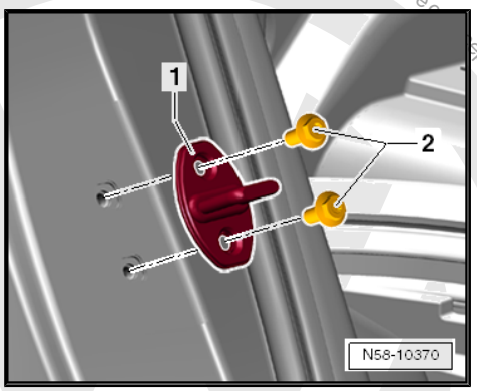
2.5.2 Installing

Perform the following:

– Position the catch -1- on the C-pillar and tighten the bolts -2-.

Bolt tightening specification -2-: 25 Nm

– Adjust the catch. Refer to
⇒ “1.5.2 Striker Pin, Adjusting”, page 136 .

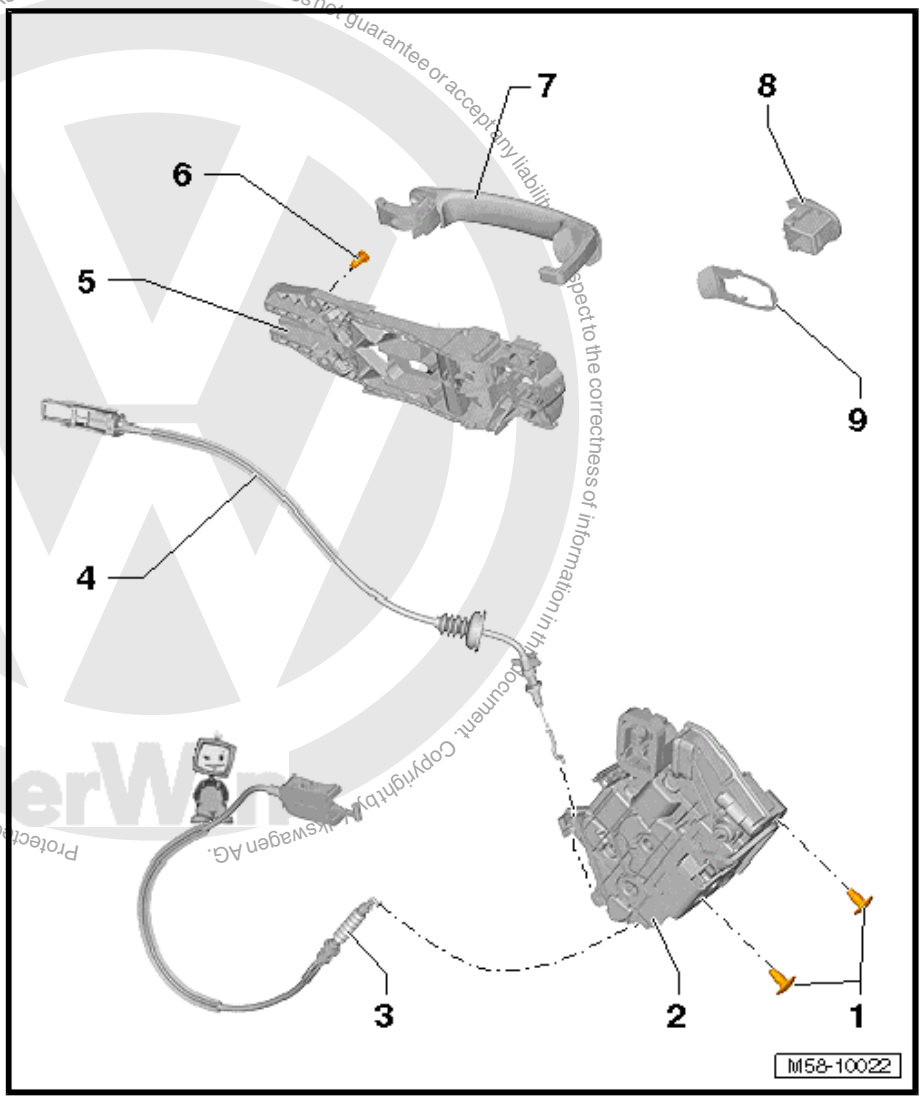


2.6 Overview - Door Handle and Door Lock

Note

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

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1 - Bolt

- ❑ Tightening specification: 18 Nm
- ❑ Quantity: 2

2 - Door Lock

- ❑ Removing and installing. Refer to ⇒ “2.9 Door Lock, Removing and Installing”, page 151 .

3 - Cable

- ❑ From the door lock -2- to the mounting bracket -5-
- ❑ Secured to the outer door panel with adhesive tape

4 - Cable

- ❑ From the interior door mechanism to the door lock -2-
- ❑ With a grommet for the pass through on the cover

5 - Mounting Bracket

- ❑ Removing and installing. Refer to ⇒ “2.10 Mounting Bracket, Removing and Installing”, page 154 .

6 - Screw

- ❑ Tightening specification: 1 Nm.
- ❑ Loosening this bolt loosens the mounting bracket from the door.

7 - Door Handle

- ❑ Removing and installing. Refer to ⇒ “2.8 Door Handle, Removing and Installing”, page 148 .

8 - Cap

- ❑ Removing and installing. Refer to ⇒ “2.7 Cap, Removing and Installing”, page 145 .

9 - Backing Plate

2.7 Cap, Removing and Installing

⇒ “2.7.1 Tools”, page 145

⇒ “2.7.2 Removing”, page 146

⇒ “2.7.3 Installing”, page 147

2.7.1 Tools

Special tools and workshop equipment required

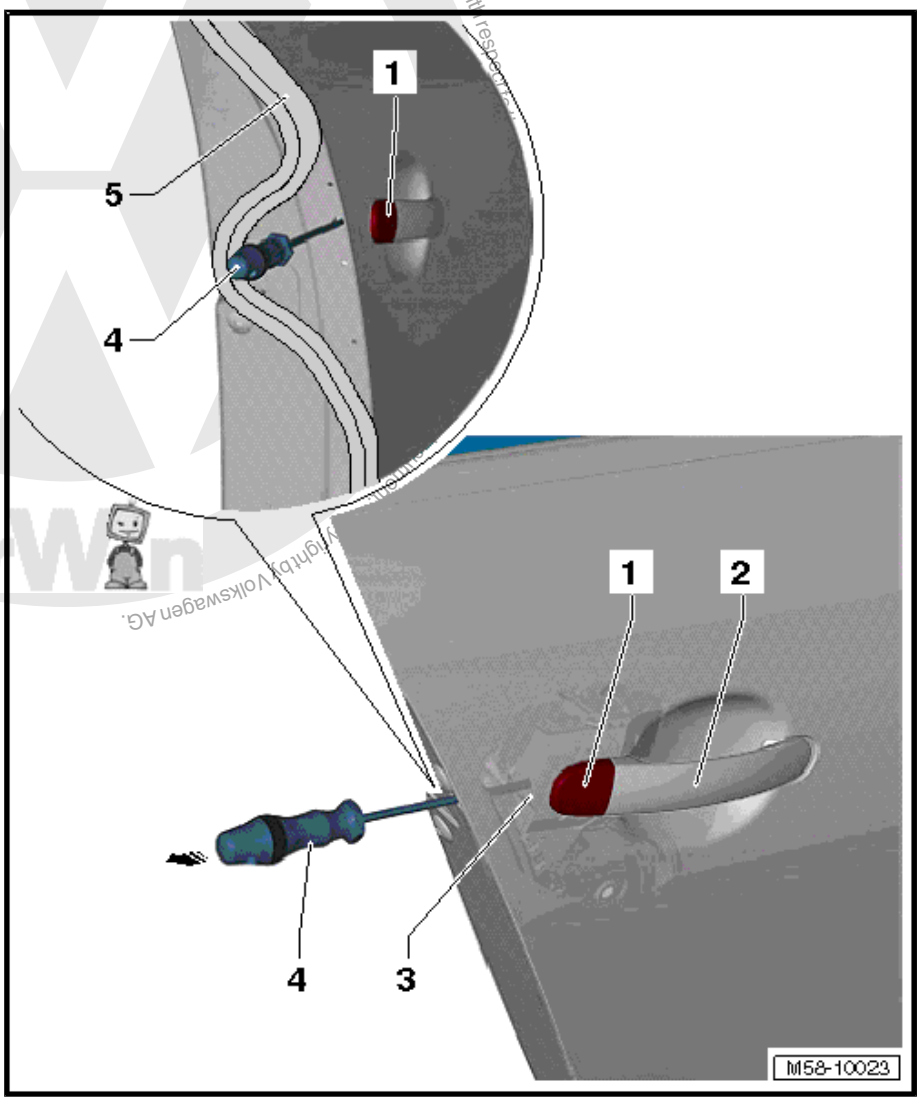
- ♦ Lock Cylinder Housing Assembly Tool - T10389-

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2.7.2 Removing

Note

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



Perform the following:

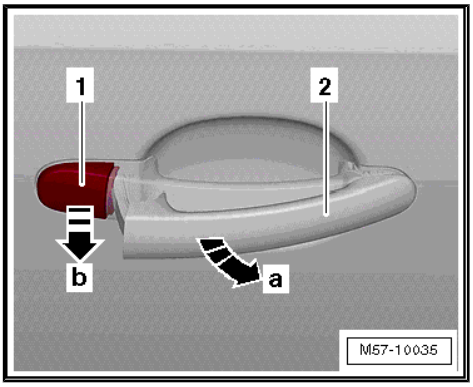
– Remove the outer door seal -5- near opening for the hooks. Refer to ⇒ “2.14 Outer Door Seal, Removing and Installing”, page 163 .

– Install the Lock Cylinder Housing Assembly Tool - T10389- into the opening behind the hooks -3- for the cap -1-.

– Pull the Lock Cylinder Housing Assembly Tool - T10389- toward the rear -arrow- until the locking hooks are released.

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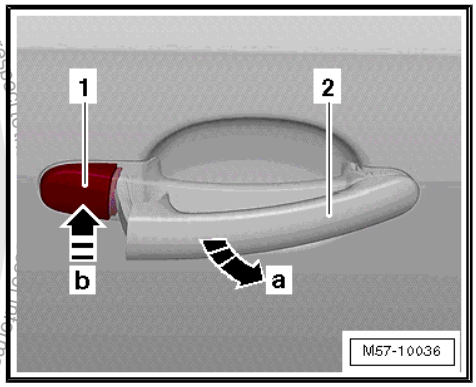
– Remove the door handle -2- from the door in the direction of the -arrow a-.
– Remove the cap -1- at a right angle in direction of -arrow b- from the mounting bracket.



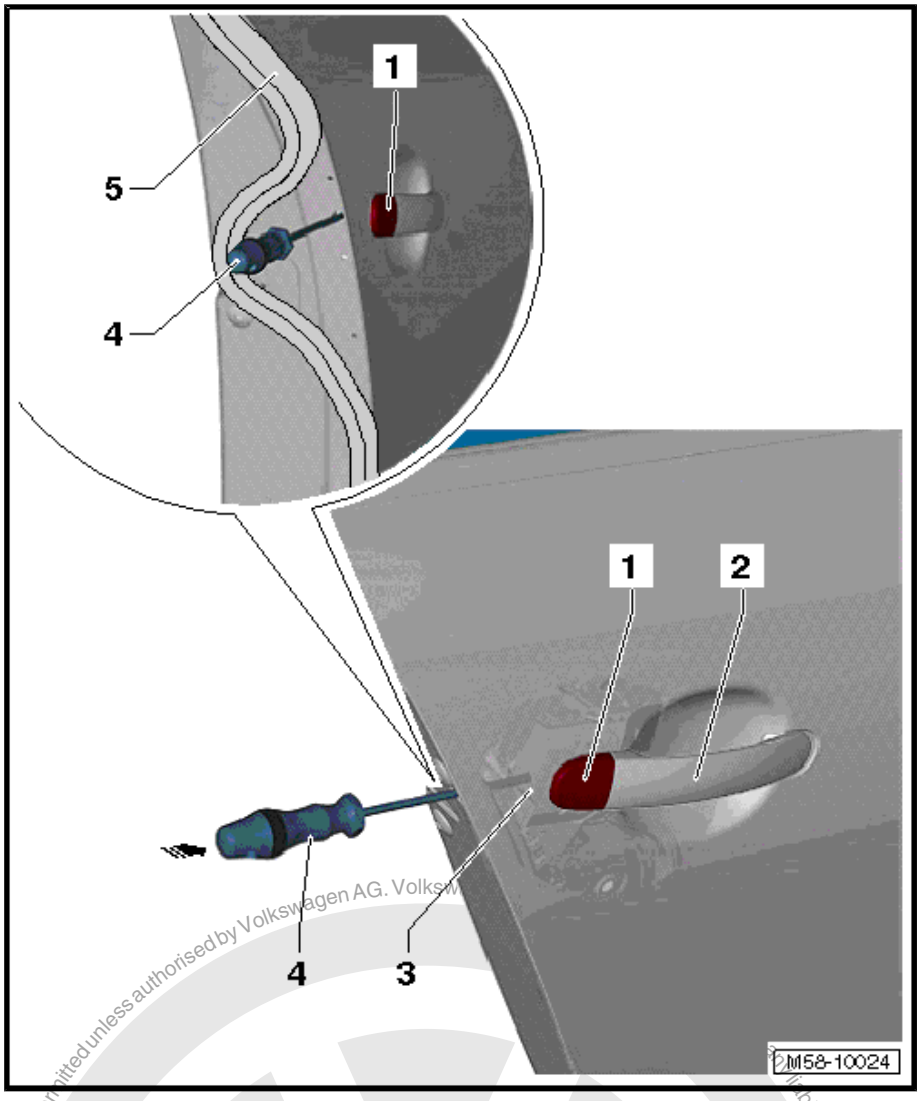
2.7.3 Installing

Perform the following:

– Remove the door handle -2- from the door in the direction of the -arrow a-.
– Install the cap -1- at a right angle into the mounting bracket in direction of -arrow b-.



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– Insert a screwdriver -4- on the hooks -3- int he mounting bracket.
– Push the cap -1- onto the door.
– Push the screwdriver in just far enough -arrow- to release the hook.
– Install the outer door seal -5- near opening for the hooks. Refer to
⇒ “2.14 Outer Door Seal, Removing and Installing”, page 163 .

2.8 Door Handle, Removing and Installing

⇒ “2.8.1 Removing”, page 148

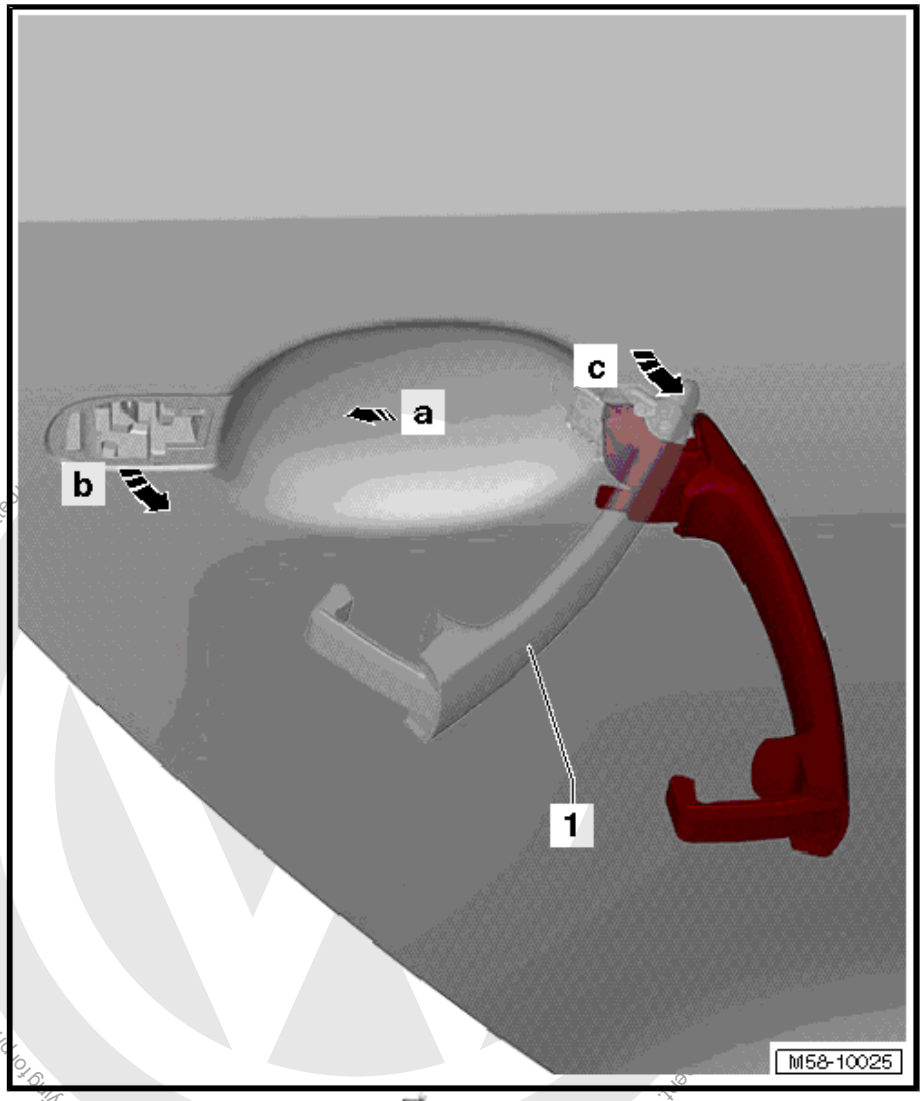
⇒ “2.8.2 Installing”, page 150

2.8.1 Removing

Note

The following describes the removal and installation of the right door handle. Removing and installing the left door handle is identical.

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Perform the following:

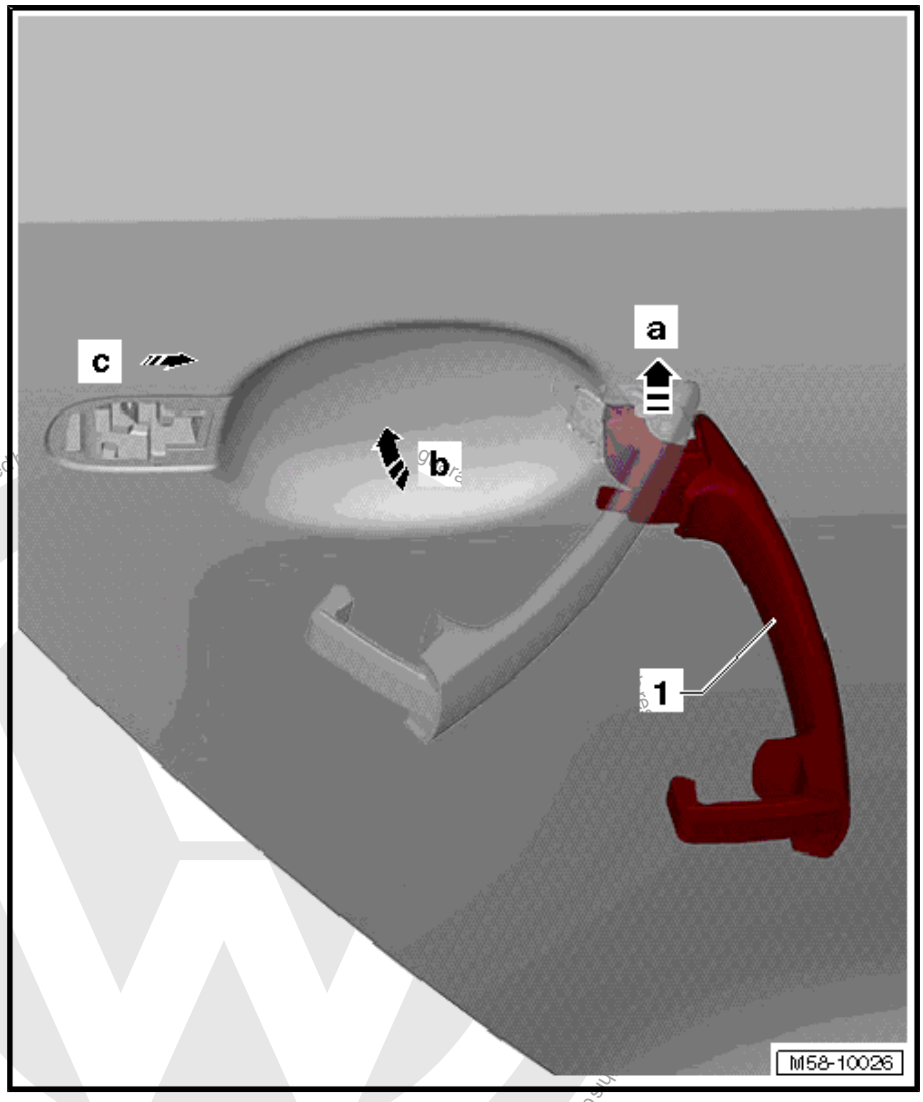
– Remove the cap. Refer to ⇒ “2.7 Cap, Removing and Installing”, page 145 .

– Pull the door handle -1- slightly to the rear in direction of -arrow a- and out of the mounting bracket mount.

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

– Remove the door handle at a right angle in direction of -arrow c- from the mounting bracket.

2.8.2 Installing



Perform the following:

- Insert the door handle -1- into the mounting bracket at a right angle in direction of -arrow a-.
- Install the door handle -1- into the door in direction of -arrow b-.
- Push the door handle toward the front in direction of -arrow c- into the mount in the mounting bracket.
- Install the cap. Refer to ⇒ “2.7 Cap, Removing and Installing”, page 145 .

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2.9 Door Lock, Removing and Installing

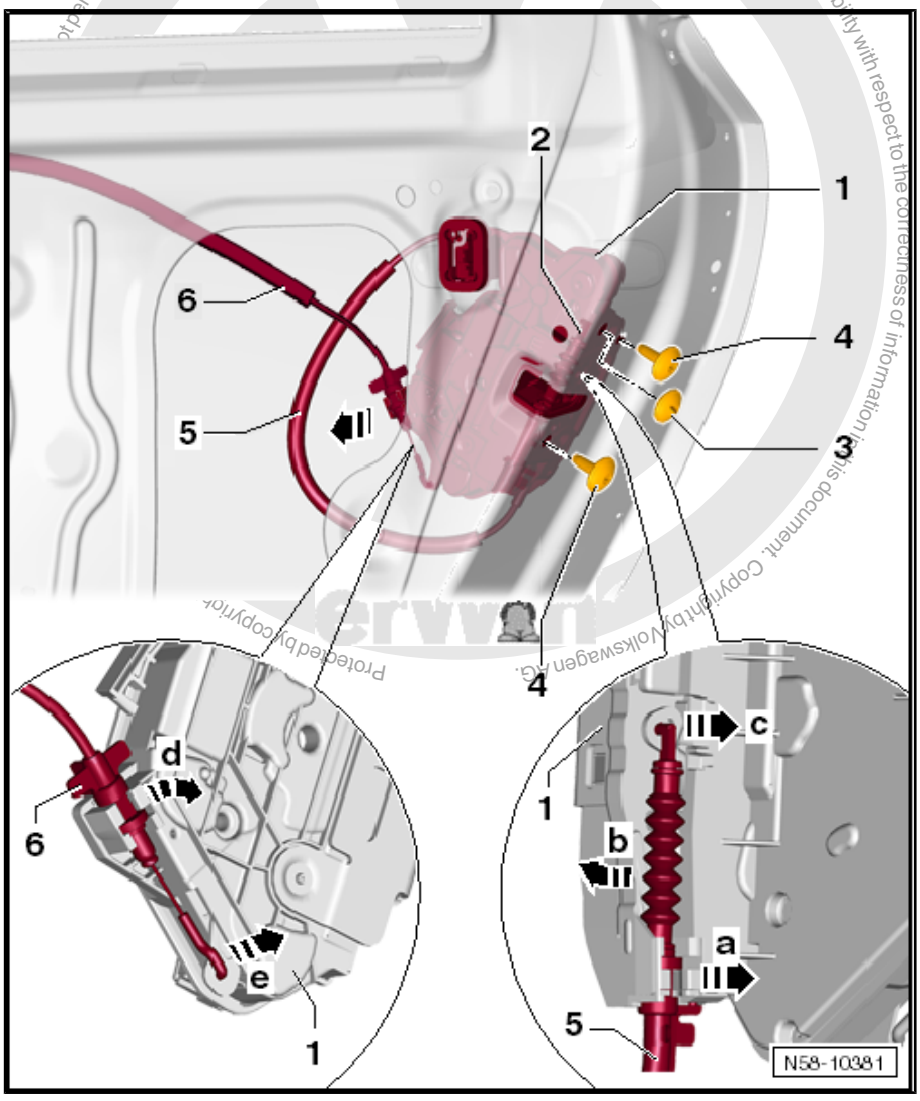
⇒ “2.9.1 Removing”, page 151

⇒ “2.9.2 Installing”, page 152

2.9.1 Removing

Note

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



Perform the following:

– Remove the cover. Refer to ⇒ “2.3 Cover, Removing and Installing”, page 139 .

– Disconnect the connector from the door lock -1-.

– Remove the bolts -4-.

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

Note

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

Cable to Mounting Bracket, Loosening

The cable -5- can be secured to the outer door panel with adhesive tape.

– If equipped, remove the cap from the door lock.
– Turn the cable -5- 90° and remove it -arrow a- out of the bracket.
– Move the cable in direction of -arrow b- until it can be guided out of the eye in the door lock -1- in direction of -arrow c-.

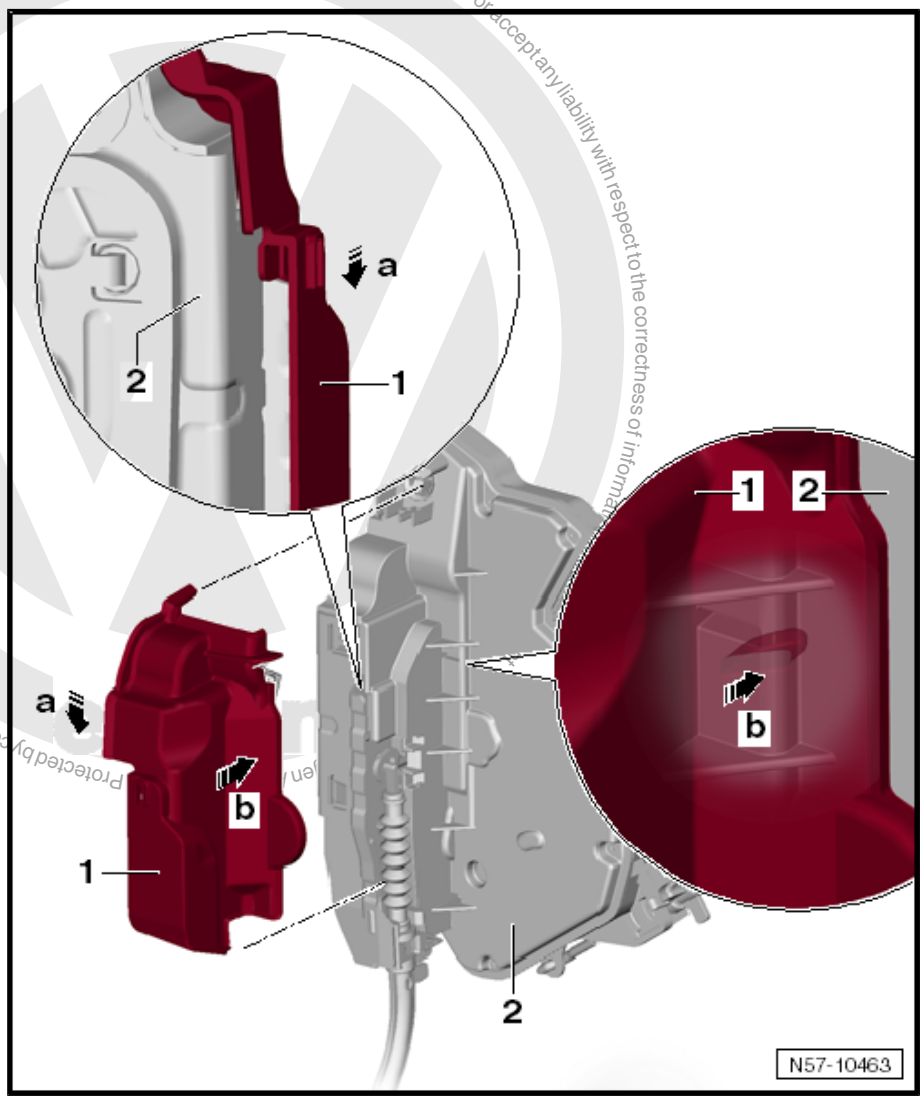
Cable to Interior Door Mechanism, Loosening

– Turn the cable -6- 90° and remove it from the mount.
– Move the cable in direction of -arrow d- until it can be guided out of the eye in the door lock -1- in direction of -arrow e-.

2.9.2 Installing

Perform the following:

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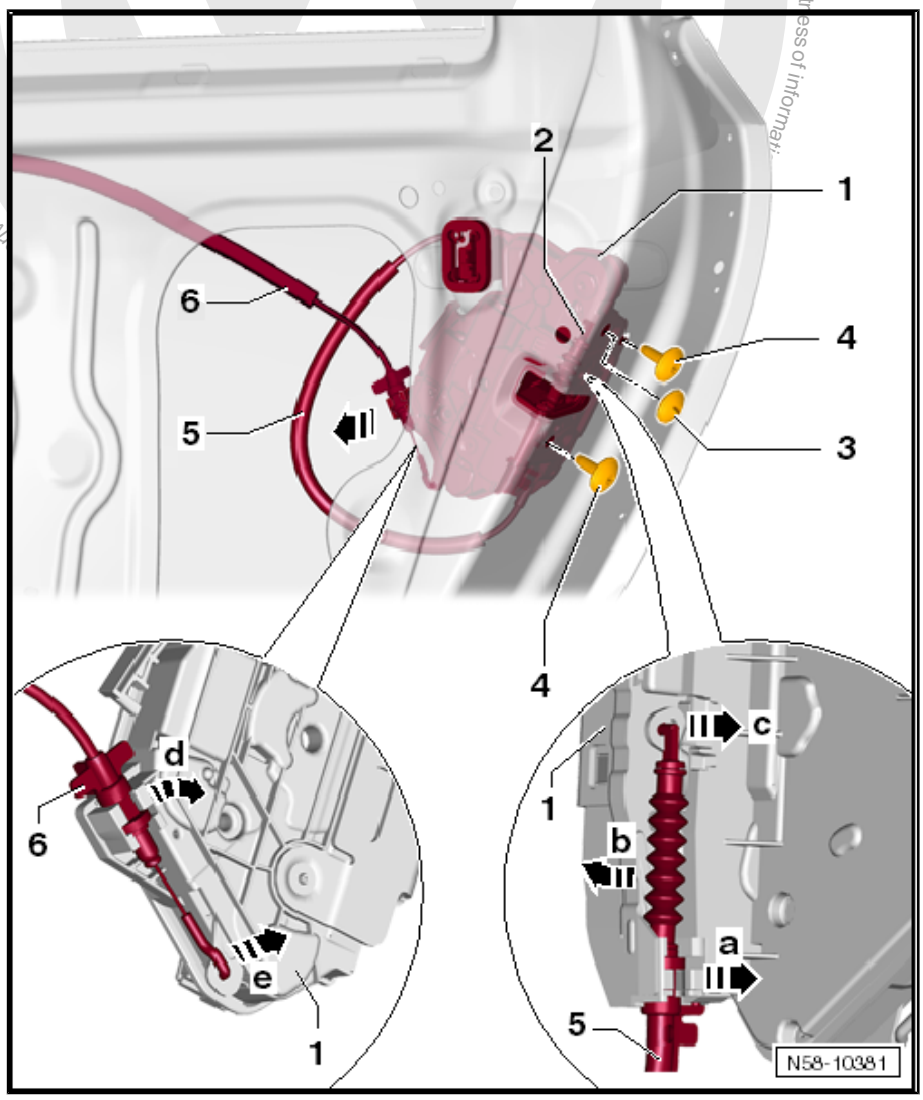


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Note

Install the cap before installing the door lock.

– Push the cap -1- onto the door lock guide -2- in direction of -arrow a-.
– Lock the cap -1- into the center of the door lock -2- in direction of -arrow b-.



Install in reverse order of removal.

– Secure the cable -5- to the outer door panel with tape.

Bolt tightening specification -4-: 18 Nm

2.10 Mounting Bracket, Removing and Installing

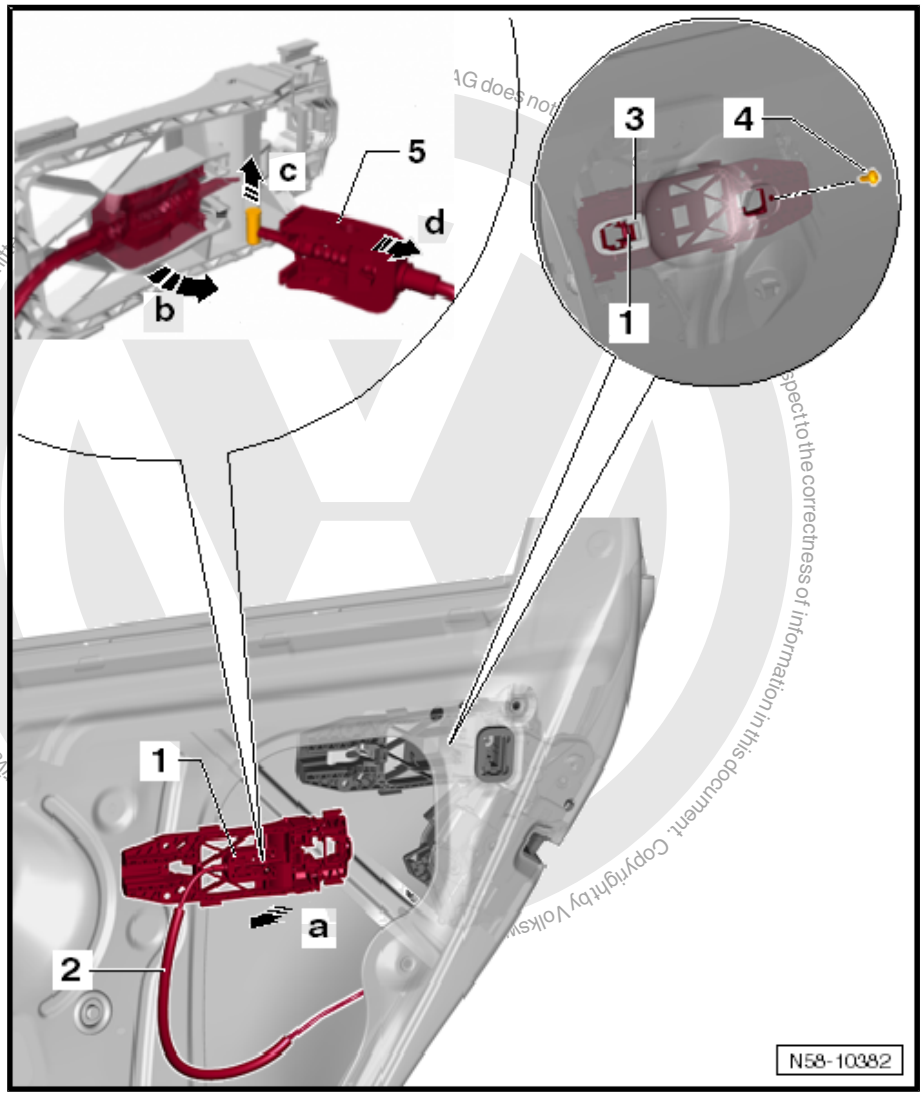
⇒ “2.10.1 Removing”, page 154

⇒ “2.10.2 Installing”, page 155

2.10.1 Removing

Note

The following describes the removal and installation of the right mounting bracket. Removing and installing the left mounting bracket is identical.



Perform the following:

– Remove the cover. Refer to ⇒ “2.3 Cover, Removing and Installing”, page 139 .

– Remove the cap. Refer to ⇒ “2.7 Cap, Removing and Installing”, page 145 .

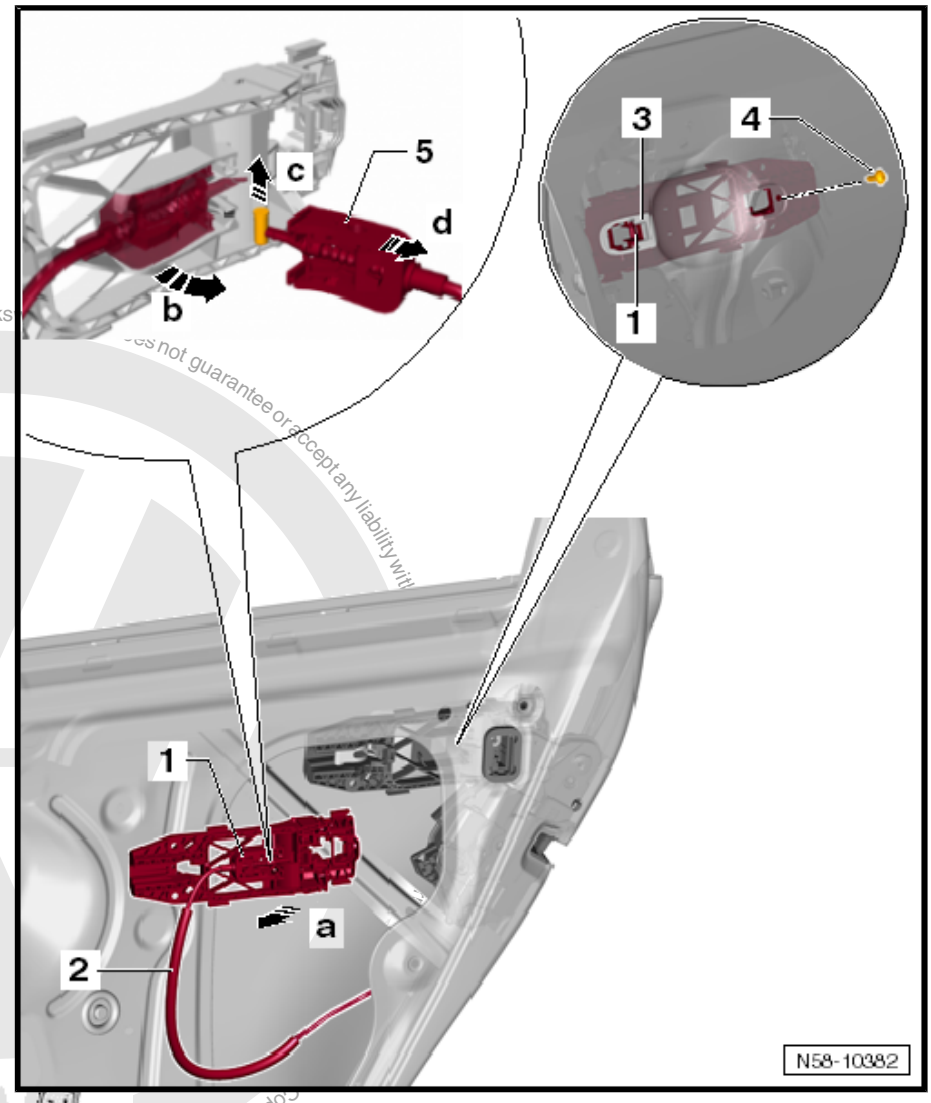
– Remove the door handle. Refer to
⇒ “2.8 Door Handle, Removing and Installing”, page 148 .
– Remove the bolt -4- and then remove the backing -3-.
– Remove the mounting bracket -1- from the door in direction of -arrow a-.

Cable, Loosening

The cable -2- can be secured to the outer door panel with tape.

– Release the retainer -5- and swivel it out of the mount int he mounting bracket in direction of -arrow b-.
– Lift the pin for the cable out of the mount in direction of -arrow c-.
– Remove the cable from the mounting bracket in direction of -arrow d-.

2.10.2 Installing



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Perform the following:

Install in reverse order of removal.

– Secure the cable -2- to the outer door panel with tape.

Screw tightening specification -4-: 1 Nm

2.11 Inner Window Shaft Seal, Removing and Installing

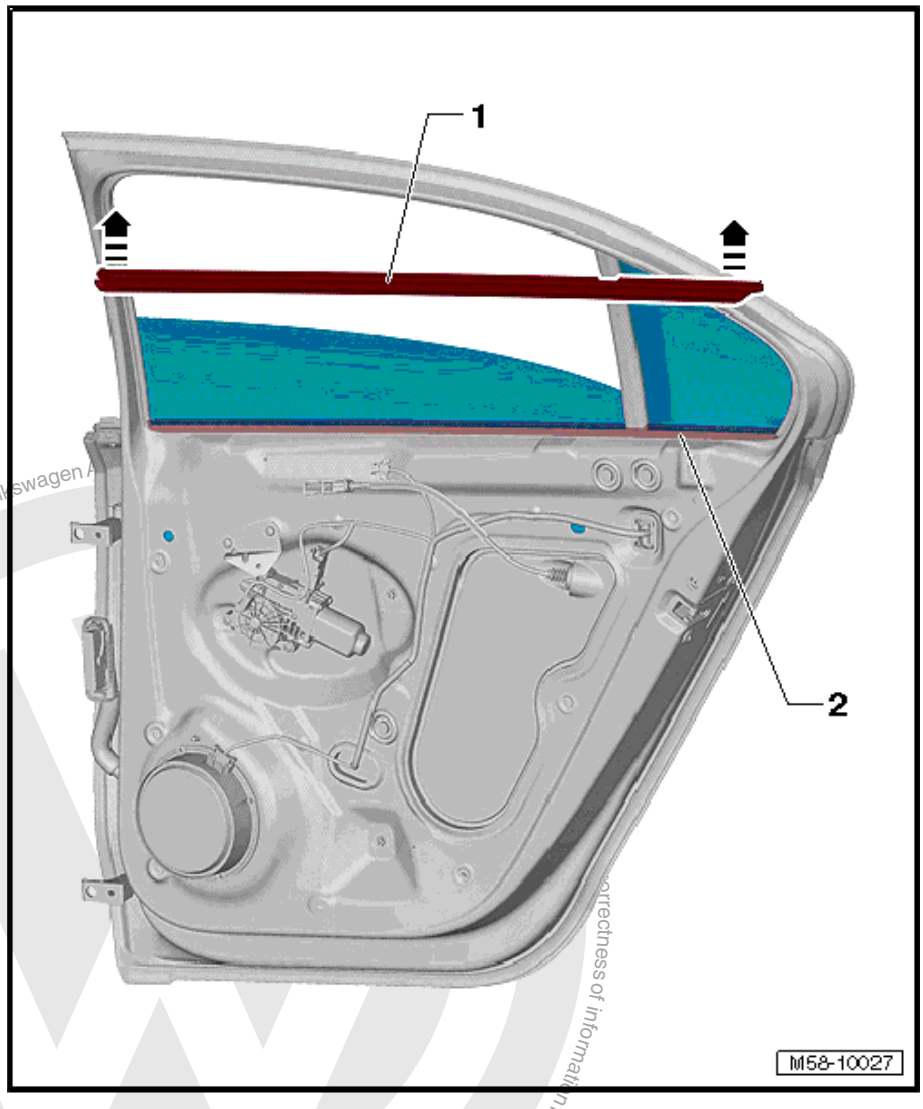
⇒ “2.11.1 Removing”, page 156

⇒ “2.11.2 Installing”, page 157

2.11.1 Removing

Note

- *The following describes removing and installing the right inner window shaft seal. Removing and installing the left inner window shaft seal is identical.*
- *Pull the strip off evenly without bending it.*



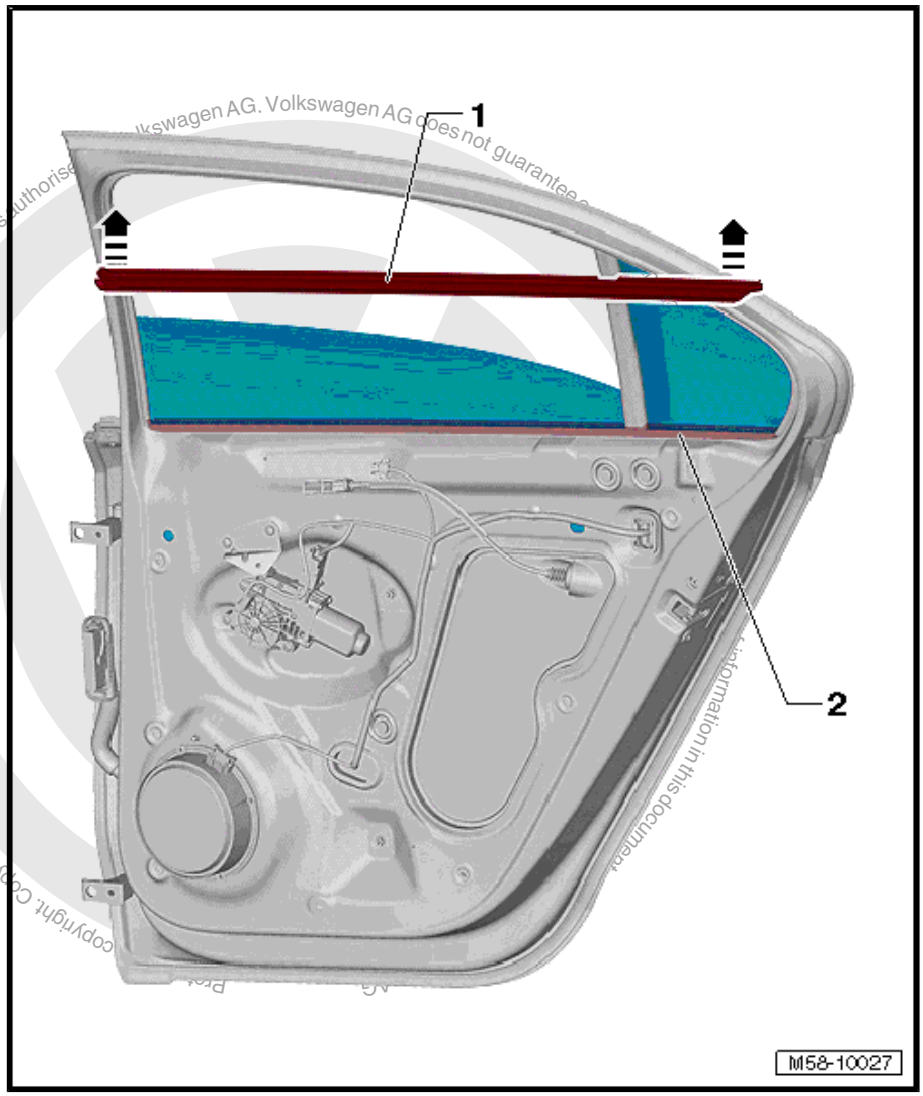
Perform the following:

– Remove the rear door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

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– Remove the seal -1- evenly in direction of -arrows- from the flange -2-.

2.11.2 Installing



Perform the following:

– Press the seal -1- onto the flange -2- evenly starting at the B-pillar.

– Install the rear door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

2.12 Outer Window Shaft Seal, Removing and Installing

⇒ “2.12.1 Versions, Differentiating”, page 158

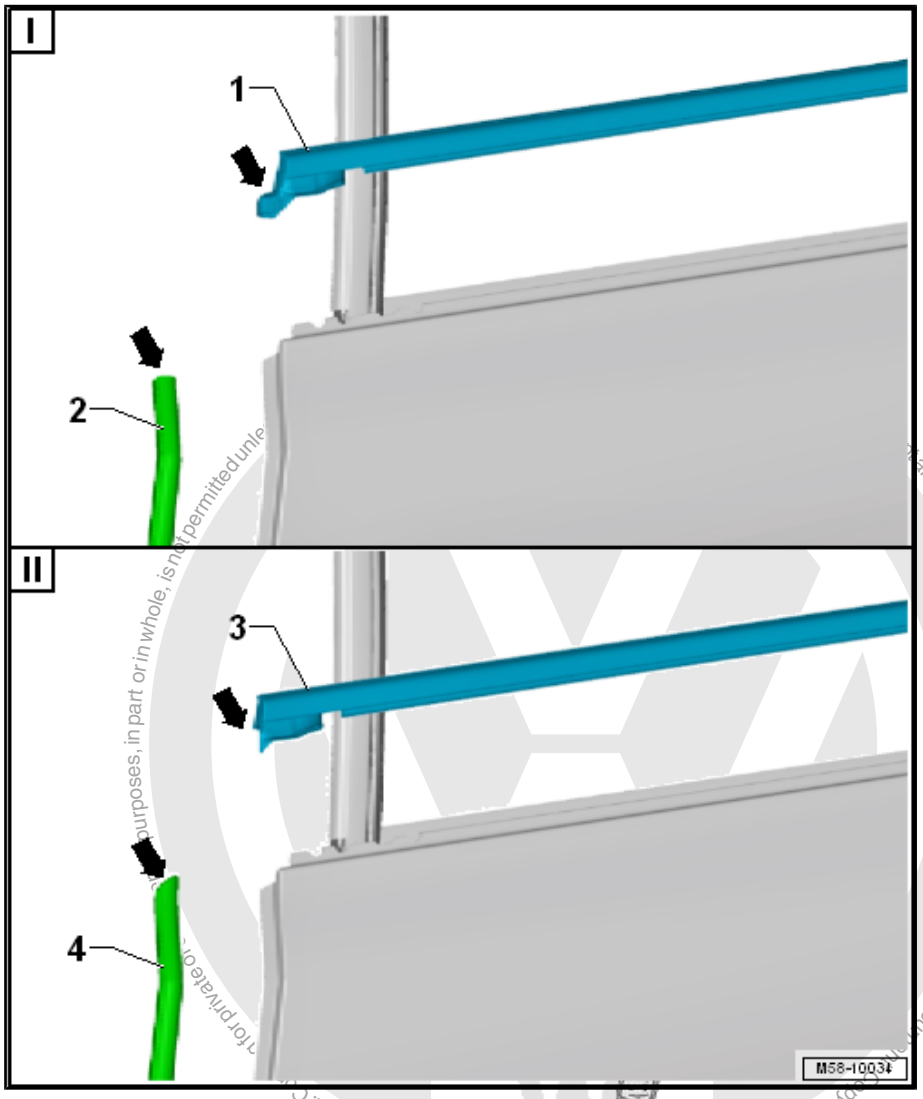
⇒ “2.12.2 Removing”, page 159

⇒ “2.12.3 Installing”, page 160

2.12.1 Versions, Differentiating

I - Previous Outer Window Shaft Seal -1- and Outer Door Seal -2-

II - New Outer Window Shaft Seal -3- and Outer Door Seal -4-



The previous outer window shaft seal -1- and the new outer window shaft seal -3- differ from each other at the front ends on the B-pillar -arrows-.

The outer window shaft seal and the outer door seal are paired to each other -arrows-. Therefore installing a previous version of the part with a new part is not possible.

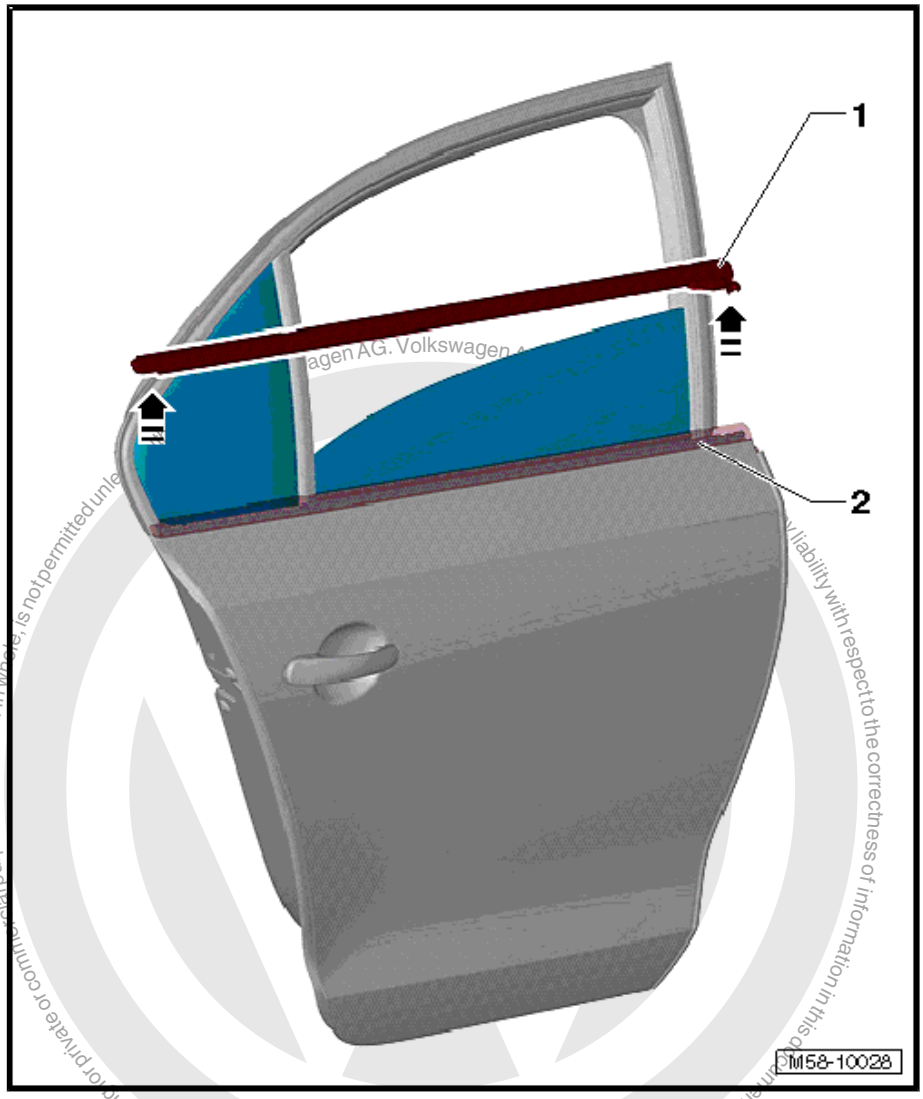
If a previous outer window shaft seal -1- is being replaced with a new outer window shaft seal -3-, then the previous outer door seal -2- must also be replaced with a new outer door seal -4-.

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2.12.2 Removing

Note

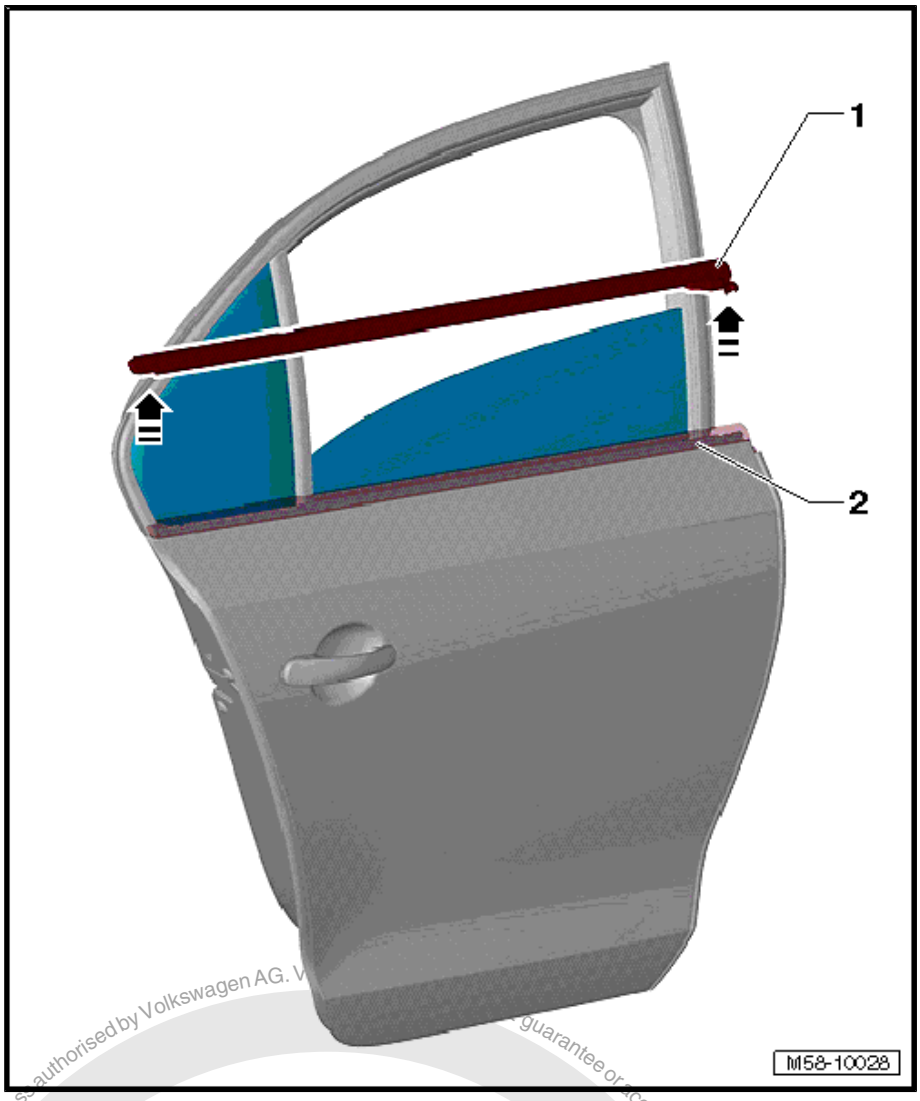
- *The seal has a metal insert in the center. If it gets bent, it will not be possible to straighten it out again. It will remain “wavy”.*
- *This is why the seal must be removed evenly without bending it.*
- *The following describes removing and installing the right outer window shaft. Removing and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



Perform the following:

– Remove the seal -1- evenly -arrows- from the flange -2-.

2.12.3 Installing



Perform the following:

– When replacing the seal -1-, pay attention to the different versions. Refer to
⇒ “2.12.1 Versions, Differentiating”, page 158 .

– Position the seal -1- on the B-pillar and push it evenly onto the door flange -2-.

2.13 Inner Door Seal, Removing and Installing

⇒ “2.13.1 Removing”, page 160

⇒ “2.13.2 Installing”, page 162

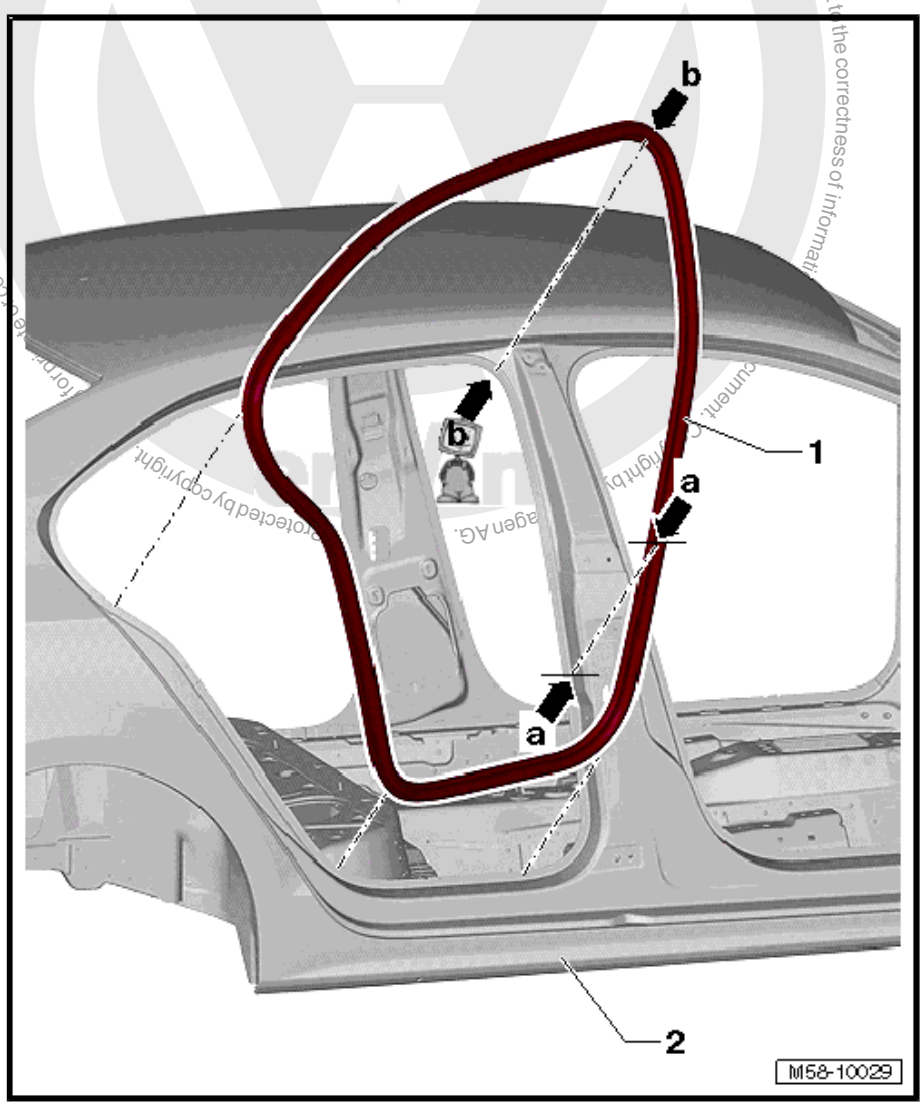
2.13.1 Removing

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

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Note

- *The sealant on the inside of the seal will spread when the seal is removed. The sides will bend up slightly. The seal may not seal completely or be seated correctly if the seal is reinstalled.*
- *For this reason, every seal that has been removed completely must be replaced with a so-called "hammer-stroke seal".*
- *With partially removed seals, press the seal sides together before installing.*
- *The following describes removing and installing the right inner door seal. Removing and installing the left inner door seal is identical.*



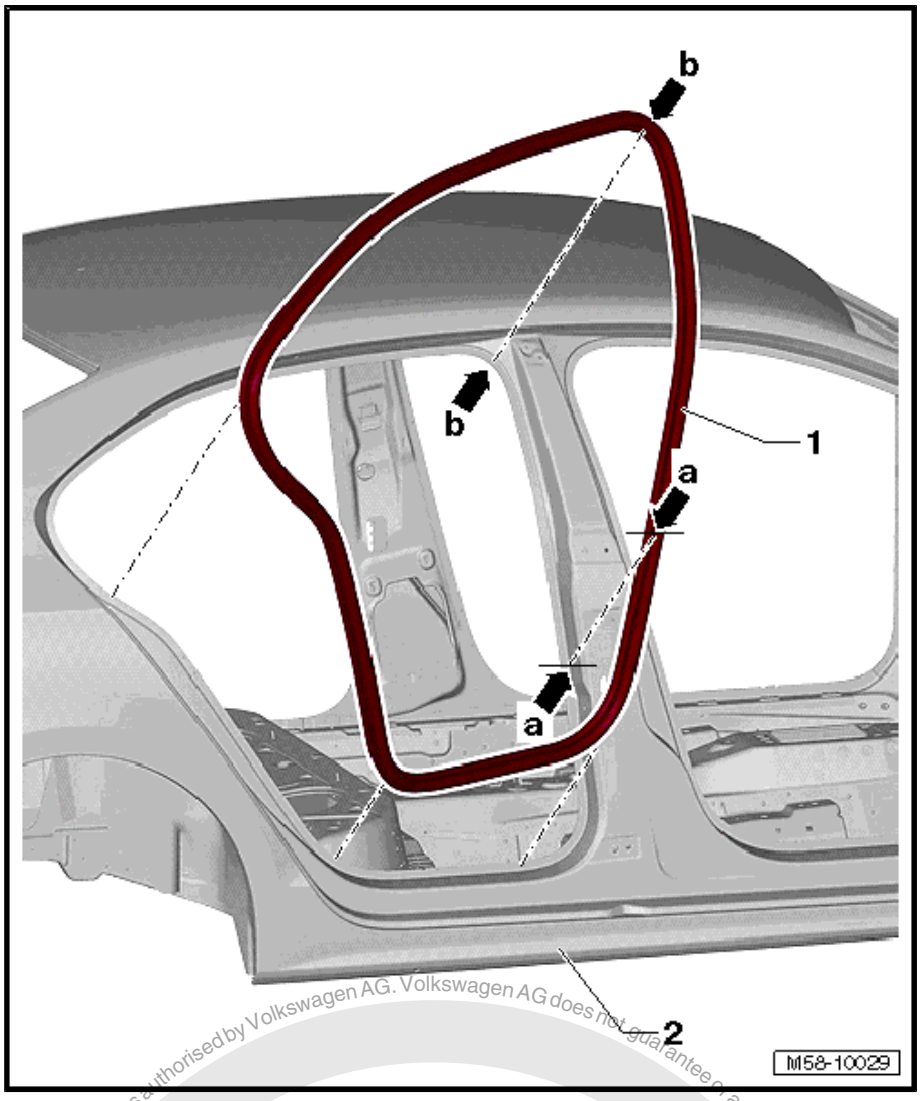
Perform the following:

– It is necessary to remove the pillar trim in order to remove the inner door seal. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels .

– Remove the sill panel strip ⇒ Body interior; Rep. Gr. 68 .

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

2.13.2 Installing



Perform the following:

- Line up the inner door seal -1- with the vulcanized point -arrow a- with the lower hinge -arrow a-.
- Install the inner door seal -1- starting at the top of the door opening -arrow b-.
- Install the sill panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels; Sill Panel, Removing and Installing .
- Install the pillar trim panels. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels .

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2.14 Outer Door Seal, Removing and Installing

⇒ “2.14.1 Versions, Differentiating”, page 163

⇒ “2.14.2 Removing”, page 164

⇒ “2.14.3 Installing”, page 165

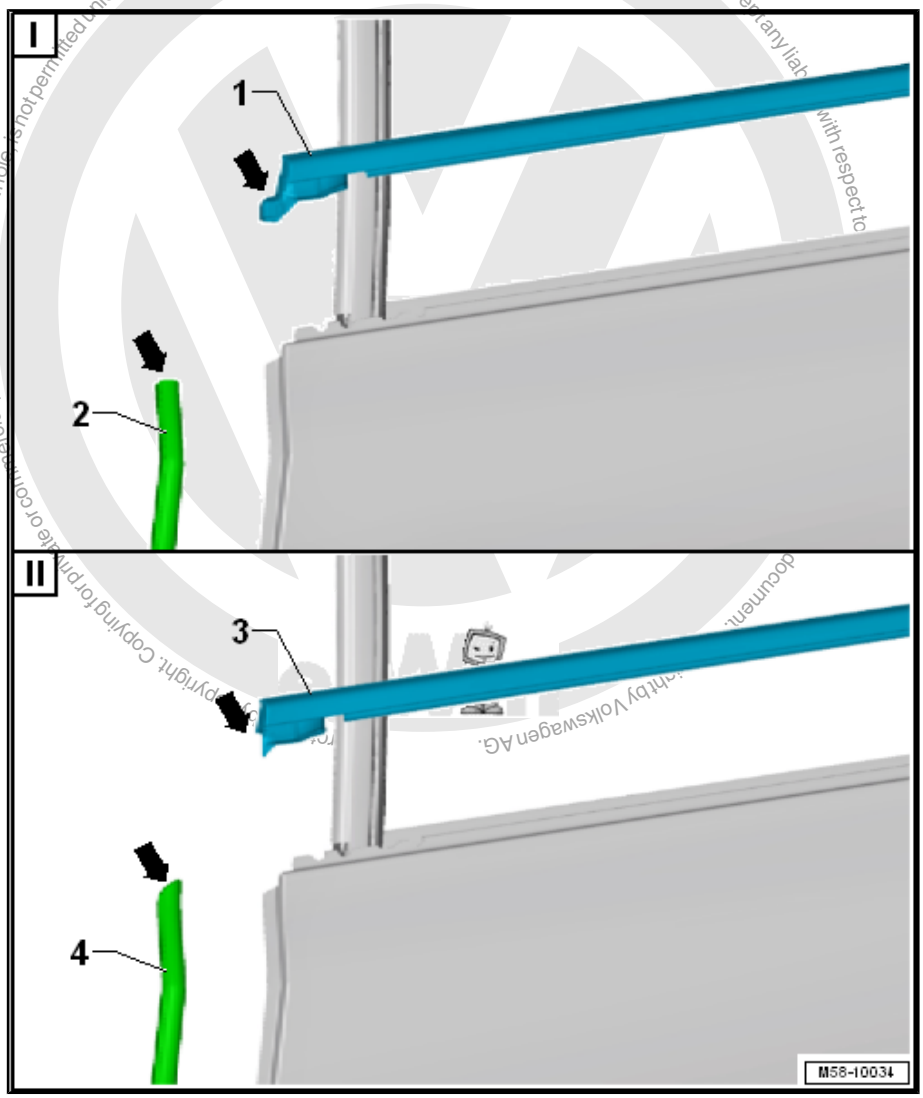
2.14.1 Versions, Differentiating

Note

- *The following describes removing and installing the right outer door seal. Removing and installing the left outer door seal is identical.*
- *Check clips for securing the outer door seal for damage and replace if necessary.*

I - Previous Outer Door Seal -2- and Outer Window Shaft Seal -1-

II - New Outer Door Seal -4- and Outer Window Shaft Seal -3-

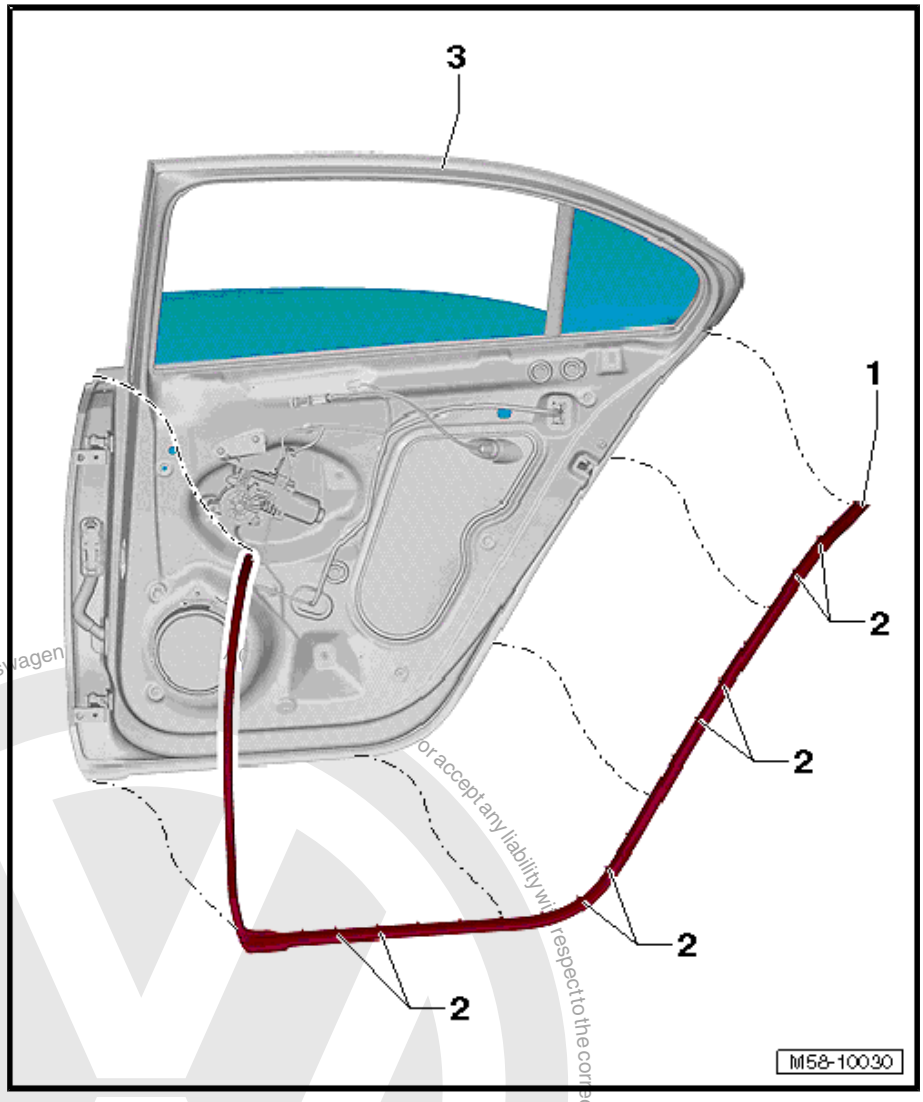


The previous outer door seal -2- and the new outer door seal -4- differ from each other at the upper ends on the B-pillar -arrows-.

The outer door seal and the outer window shaft seal are paired to each other -arrows-. Therefore installing a previous version of the part with a new part is not possible.

If a previous outer door seal -2- is being replaced with a new outer door seal -4-, then the previous outer window shaft seal -1- must also be replaced with a new outer window shaft seal -3-.

2.14.2 Removing

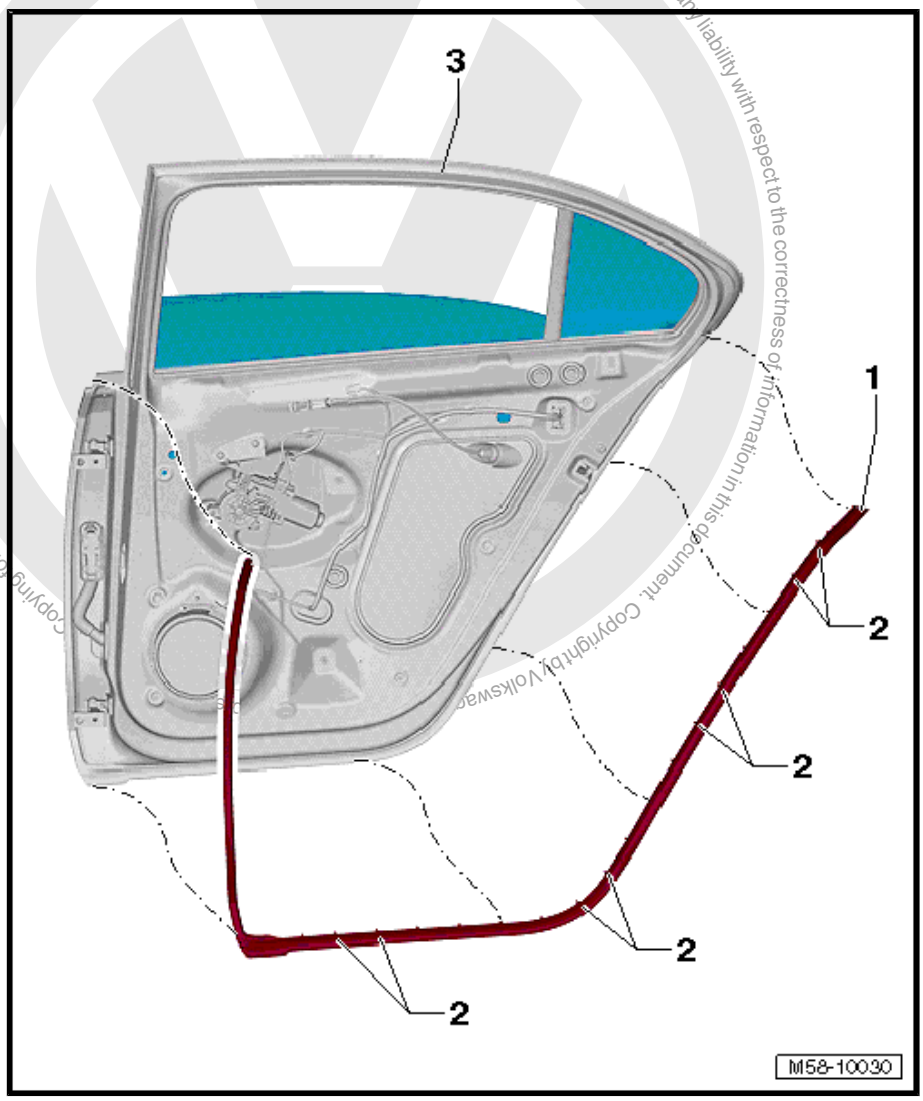


Perform the following:

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

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2.14.3 Installing



Perform the following:

– When replacing the outer door seal -1-, pay attention to the different versions. Refer to
⇒ “2.14.1 Versions, Differentiating”, page 163 .

– Press the outer door seal -1- onto the door -3- first at the B-pillar.

– Press the rest of the outer door seal -1- and clips -2- onto the door -3-.

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2.15 Overview - Insulation

1 - Insulation

- ❑ Self-adhesive
- ❑ Installing:
  - – Cut to size if necessary.
  - – Warm using the Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A- and then press firmly onto the outer door panel.

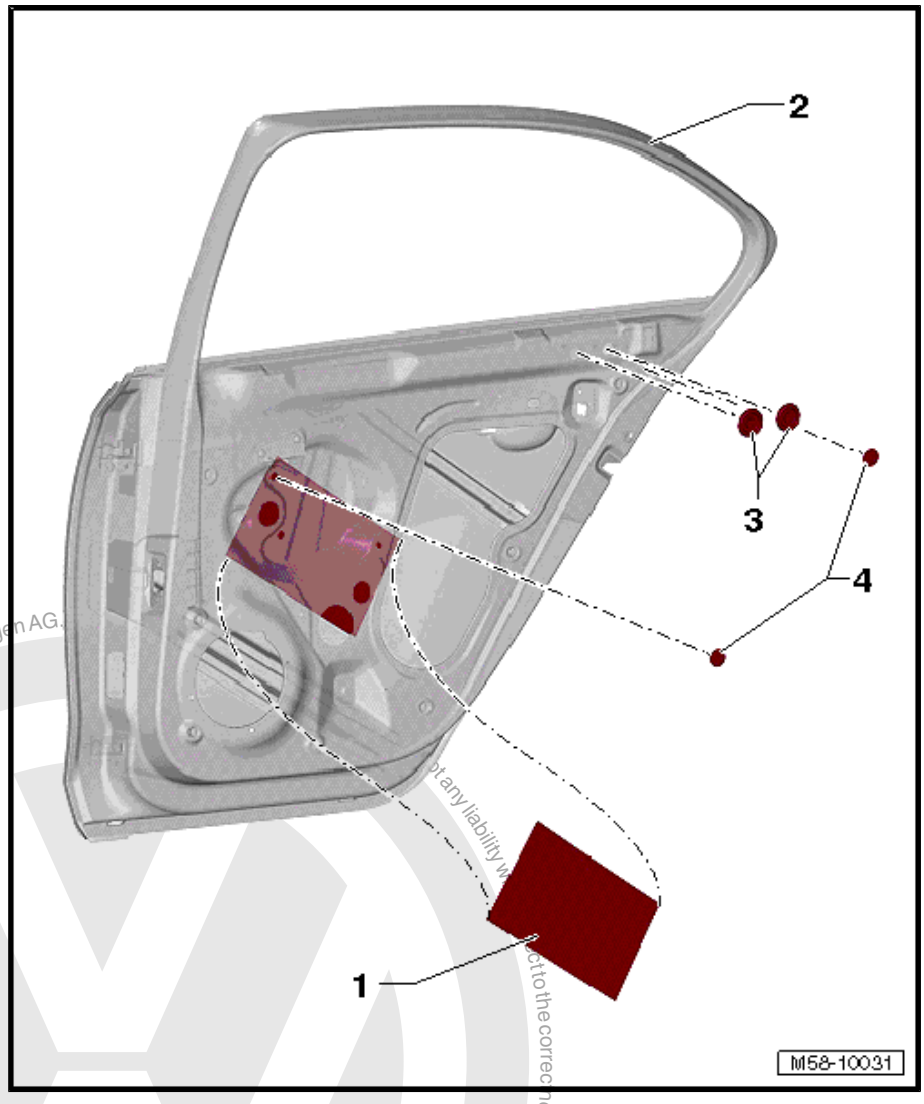
2 - Door

3 - Sticker

- ❑ 40 mm diameter
- ❑ Use commercially available duct tape if needed

4 - Sticker

- ❑ 20 mm diameter
- ❑ Use commercially available duct tape if needed

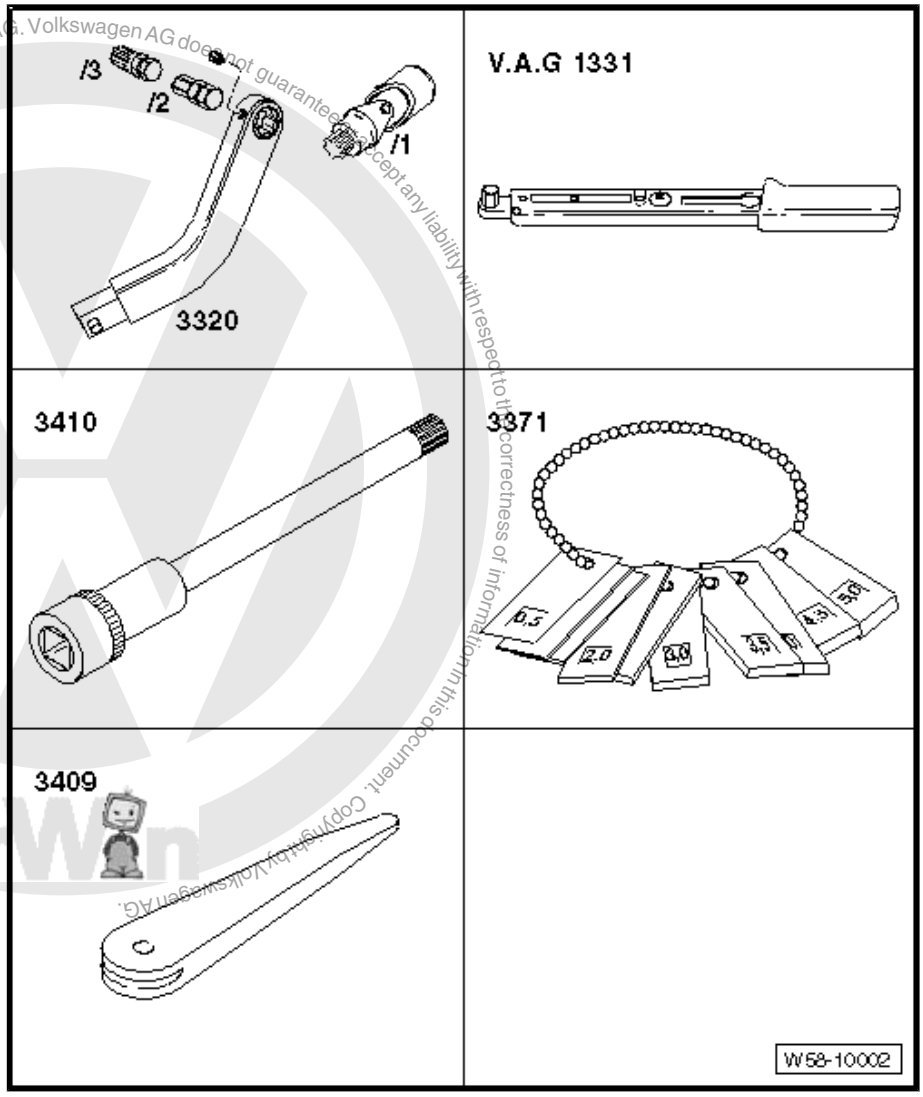


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3 Special Tools

Special tools and workshop equipment required

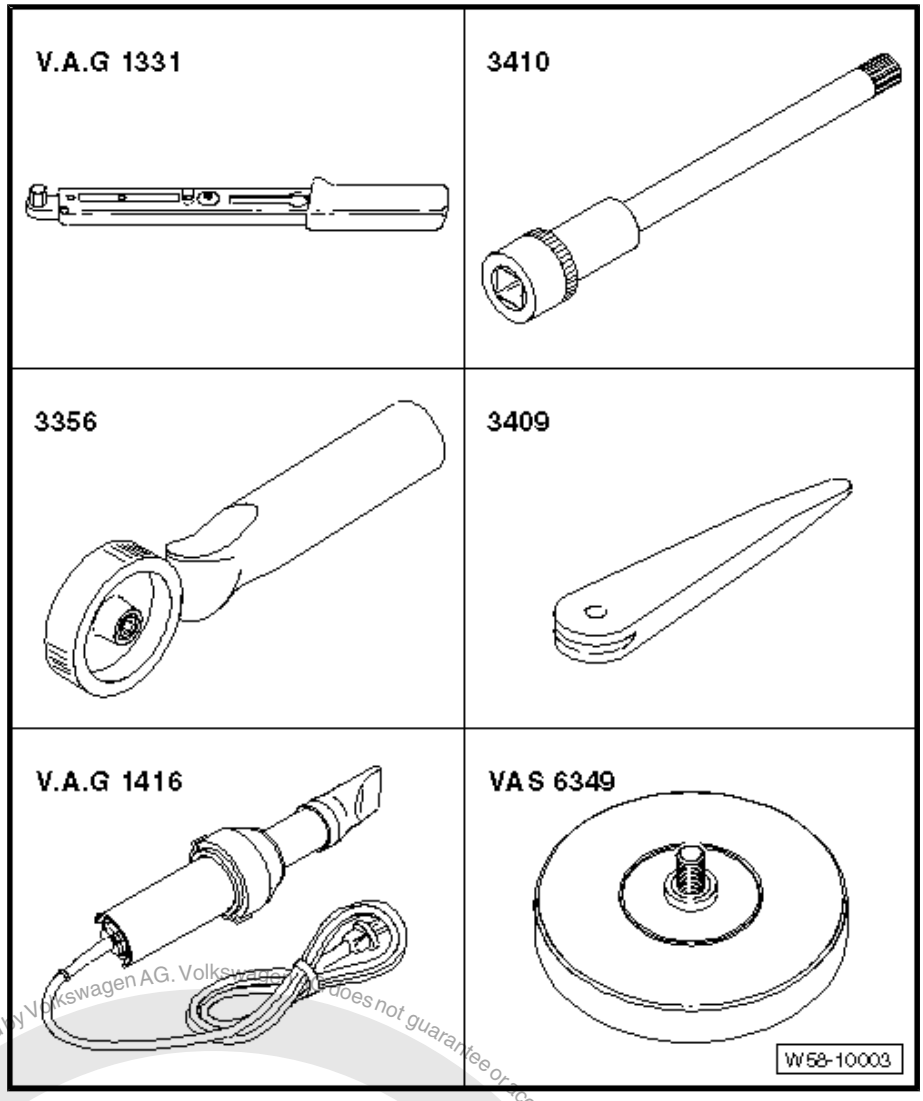
- Wrench - Door Adjusting - 3320-
- Joint for 3320 Tool - 3320/1-
- Wrench - Door Adjusting - Box Wrench - 3320/2-
- Wrench - Door Adjusting - Box Wrench - 3320/3-
- Roller - 3356-
- Cylinder Head Bolt Socket - 3410-
- Gauge - Gap Adjustment - 3371-
- Trim Removal Wedge - 3409-



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Special tools and workshop equipment required

- Torque Wrench 1331 5-50Nm - VAG1331-
- Hot Air Blower - VAG1416-
- Adhesive Strip Remover - VAS6349-



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60 – Sunroof

1 Sliding/Tilting Sunroof with Glass Panel

⇒ “1.1 Tools”, page 169

⇒ “1.2 Function”, page 169

⇒ “1.3 Overview”, page 170

⇒ “1.4 Sliding/Tilting Sunroof Glass Panel, Removing and Installing”, page 171

⇒ “1.5 Glass Panel Height Adjustment”, page 172

⇒ “1.6 Glass Panel, Checking Parallel Movement”, page 174

⇒ “1.7 Glass Panel, Adjusting Parallel Movement”, page 174

⇒ “1.8 Panel Seal, Replacing”, page 175

⇒ “1.9 Wind Deflector, Removing and Installing”, page 175

⇒ “1.10 Sun Shade, Removing and Installing”, page 176

⇒ “1.11 Sliding/Tilting Sunroof Motor, Removing and Installing”, page 177

⇒ “1.12 Sliding/Tilting Sunroof Motor, Adjusting Neutral Position”, page 178

⇒ “1.13 Sliding/Tilting Sunroof Motor, Adapting”, page 178

⇒ “1.14 Automatic Rotary Switch for Sliding/Tilting Sunroof, Removing”, page 179

⇒ “1.15 Assembly Unit, Removing and Installing”, page 179

⇒ “1.16 Water Drain Hoses, Cleaning”, page 182

1.1 Tools

Special tools and workshop equipment required

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

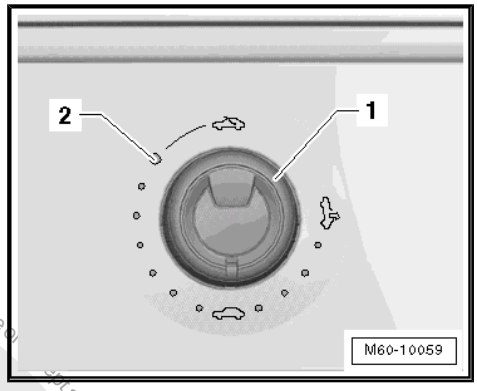
1.2 Function

The sliding/tilting sunroof only works when the ignition is switched on.

After the ignition is switched off, these functions are available until the driver or passenger door is opened.

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The dial -1- opens the glass panel.



Opening the glass sunroof in the convenience position -2- prevents most driving noise that may occur when open completely.

The glass sunroof can be tilted and closed by pulling or pushing the rotary switch.

The sliding/tilting sunroof is equipped with a pinch protection in area of the window. When an obstruction is met during the closing sequence, the roof opens again by itself.

There is also an emergency closing function. If there are problems closing the sliding/tilting sunroof, it can be forced closed by pulling on the back end of the dial. The rotary switch must be in the “Sunroof closed” position.

For the emergency close function, the closing force limit is deactivated.

The motor for the sliding sunroof has overheat protection, which activates under different conditions. After the sliding sunroof motor has cooled down, it can be operated again.

If there is a malfunction in the electrical system, the sliding/tilting sunroof motor can be moved using a hex wrench.

1.3 Overview

1 - Sliding/Tilting Sunroof Glass Panel (One-Piece Safety Glass)

- ❑ Removing and installing. Refer to ⇒ “1.4 Sliding/Tilting Sunroof Glass Panel, Removing and Installing”, page 171
- ❑ Height adjustment. Refer to ⇒ “1.5 Glass Panel Height Adjustment”, page 172 .
- ❑ Parallel Movement, Checking. Refer to ⇒ “1.6 Glass Panel, Checking Parallel Movement”, page 174 .
- ❑ Parallel Movement, Adjusting. Refer to ⇒ “1.7 Glass Panel, Adjusting Parallel Movement”, page 174 .

2 - Boot

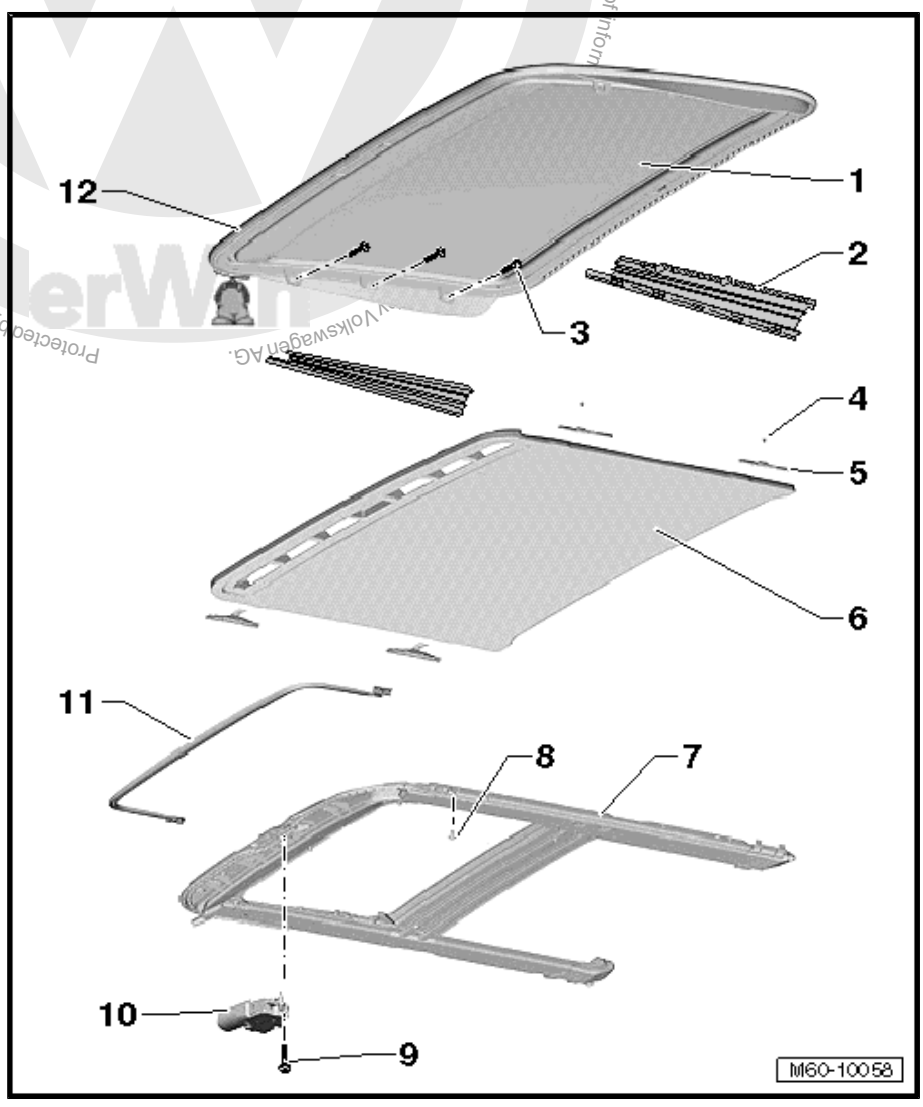
- ❑ Left and right
- ❑ For covering the slotted guide rail guide

3 - Bolt

- ❑ Tightening specification: 7 Nm
- ❑ Quantity: 3 on each side

4 - Screw

- ❑ Tightening specification: 1 Nm.



- ❑ Quantity: 2 on each side
- ❑ For attaching the gliding piece to the sun shade

5 - Gliding Piece

- ❑ Quantity: 2 on each side
- ❑ For the sun shade

6 - Sunshade

- ❑ Removing and installing. Refer to ⇒ “1.10 Sun Shade, Removing and Installing”, page 176 .

7 - Assembly Unit

- ❑ Removing and installing. Refer to ⇒ “1.15 Assembly Unit, Removing and Installing”, page 179 .
- ❑ U-frame (with guide channels) - The guide channels can be lubricated if necessary, but only use special grease G 000 450 02. Otherwise, proper function cannot be guaranteed.

8 - Bolt

- ❑ Tightening specification: 8 Nm
- ❑ Quantity: 12
- ❑ For attaching the assembly unit to the body roof

9 - Screw

- ❑ Tightening specification: 4 Nm.
- ❑ Quantity: 3

10 - Sliding/Tilting Sunroof Motor

- ❑ Removing and installing. Refer to ⇒ “1.11 Sliding/Tilting Sunroof Motor, Removing and Installing”, page 177 .
- ❑ Neutral position, adjusting. Refer to ⇒ “1.12 Sliding/Tilting Sunroof Motor, Adjusting Neutral Position”, page 178 .

11 - Wind Deflector

- ❑ Removing and installing. Refer to ⇒ “1.9 Wind Deflector, Removing and Installing”, page 175 .

12 - Panel Seal

- ❑ Replacing. Refer to ⇒ “1.8 Panel Seal, Replacing”, page 175 .

1.4 Sliding/Tilting Sunroof Glass Panel, Removing and Installing

⇒ “1.4.1 Removing”, page 171

⇒ “1.4.2 Installing”, page 172

1.4.1 Removing

Perform the following:

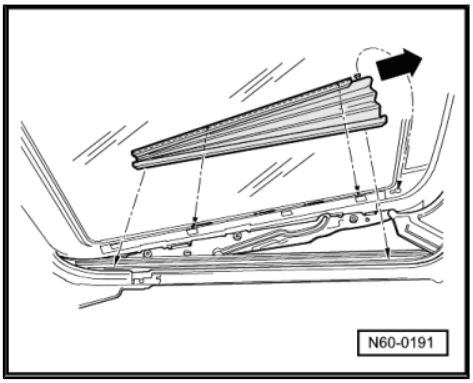
– Move the sun shade toward the rear.

– Tilt open the sliding/tilting sunroof.

– Unclip the boot on the lower strip.

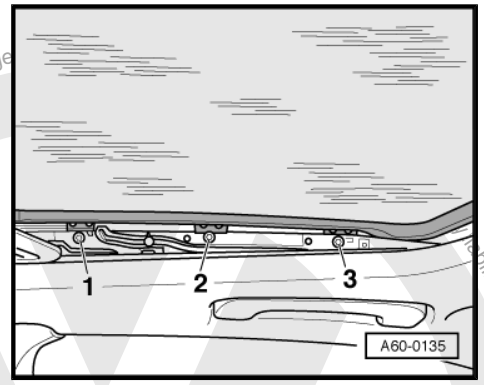
– Loosen both front retainers and push the boot to the rear -arrow- and out of the guide.

– Move the glass panel to the neutral position.



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– Remove the bolts -1 and 3-.
– Loosen the bolt -2- a few turns but do not remove it.
– Remove the glass panel from the roof opening.



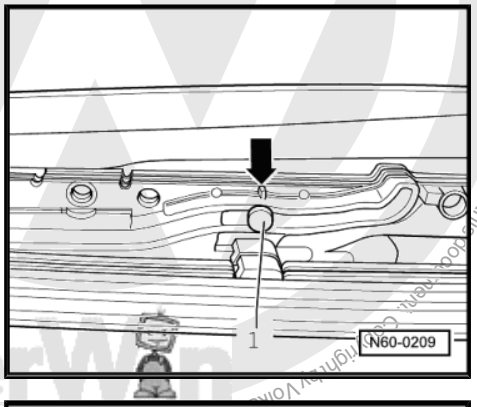
1.4.2 Installing

Perform the following:

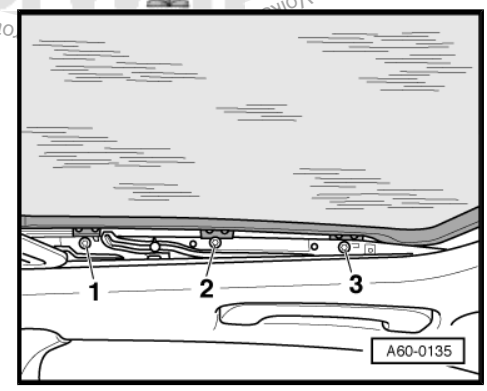
- The guide pin -1- must line up with the marking -arrow- on the left and right slotted guide rail.

If this is not the case, adjust the parallel movement. Refer to ⇒ “1.7 Glass Panel, Adjusting Parallel Movement”, page 174 .

– Install the glass panel from the top into the roof opening.



– Install the bolts -1 and 3- and tighten them only after adjusting the height of the glass panel.
– Adjust the height of the glass panel. Refer to ⇒ “1.5 Glass Panel Height Adjustment”, page 172 .



1.5 Glass Panel Height Adjustment

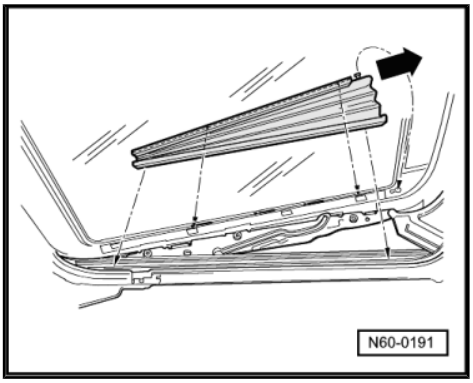
Perform the following:

The boot is still not removed:

– Move the sun shade toward the rear.
– Tilt open the sliding/tilting sunroof.

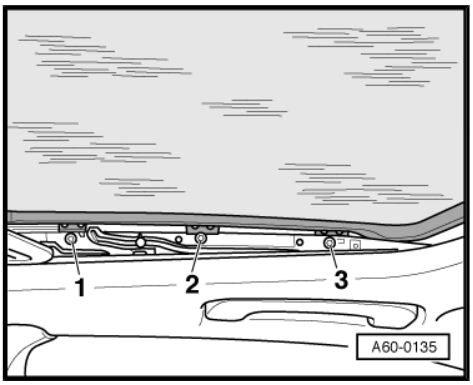
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– Unclip the boot on the lower strip.
– Loosen both front retainers and push the boot to the rear -arrow- and out of the guide.
– Move the glass panel to the neutral position.



Continuation for All Vehicles:

– Loosen the bolts -1 through 3- but do not remove them.
– To prevent wind noise, adjust the front and rear height of the glass panel as illustrated.

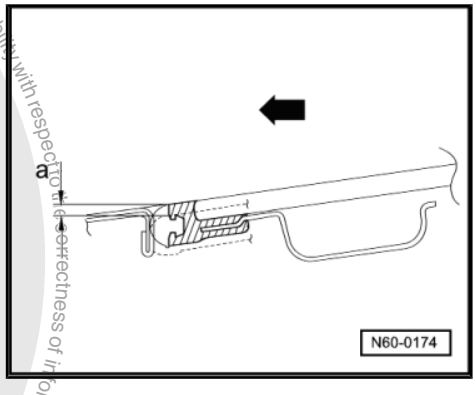


Adjusting the height at the front glass panel (the -arrow- points in direction of travel).

-a- = 0 to 1 mm lower than roof

– Tighten the front bolts for the glass panel.

Tightening specification: 7 Nm



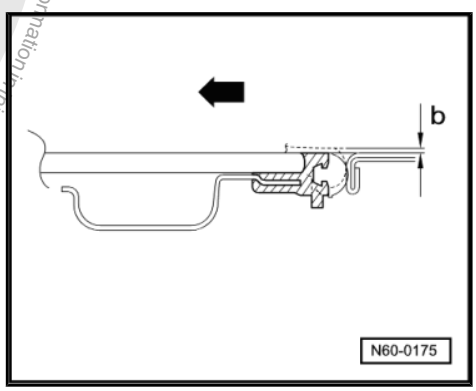
Adjusting the height of the back of the glass panel (the -arrow- points in direction of travel).

-b- = 0 to 1 mm higher than roof

– Tighten the rear bolts for the glass panel.
– Tighten the center bolts for the glass panel.

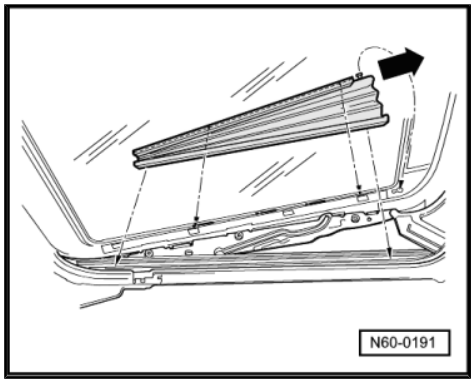
Tightening specification: 7 Nm

– Tilt open the sliding/tilting sunroof.



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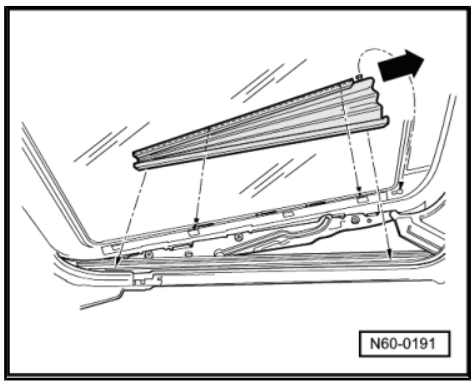
– Install the boot into the mounts onto the slotted guide rail guide.
– Install the boot into the frame.



1.6 Glass Panel, Checking Parallel Movement

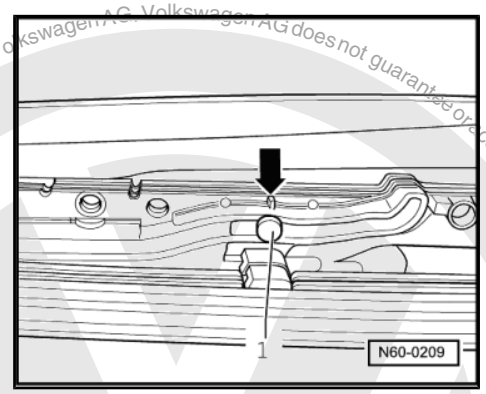
Perform the following:

– Move the sun shade toward the rear.
– Tilt open the sliding/tilting sunroof.
– Unclip the boot on the lower strip.
– Loosen both front retainers and push the boot to the rear -arrow- and out of the guide.
– Move the glass panel to the neutral position.



- The guide pin -1- must line up with the marking -arrow- on the left and right slotted guide rail.

If this is not the case, adjust the parallel movement. Refer to ⇒ “1.7 Glass Panel, Adjusting Parallel Movement”, page 174 .



1.7 Glass Panel, Adjusting Parallel Movement

Note

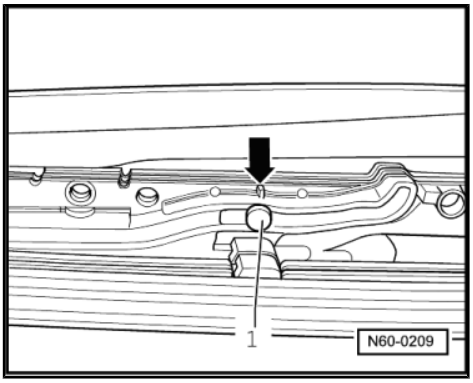
The parallel movement can only be adjusted when the sliding/tilting sunroof motor and the glass panel are removed (neutral position).

Perform the following:

– Remove the glass panel. Refer to ⇒ “1.4 Sliding/Tilting Sunroof Glass Panel, Removing and Installing”, page 171 .

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– Remove the sliding/tilting sunroof motor. Refer to ⇒ “1.11 Sliding/Tilting Sunroof Motor, Removing and Installing”, page 177 .
– Move the slotted guide rail guide on both sides by hand until the guide pin -1- lines up with the marking -arrow- on the slotted guide rail guide.
– Install and adjust the sliding/tilting sunroof motor. Refer to ⇒ “1.11 Sliding/Tilting Sunroof Motor, Removing and Installing”, page 177 .
– Install the glass panel. Refer to ⇒ “1.4 Sliding/Tilting Sunroof Glass Panel, Removing and Installing”, page 171 .



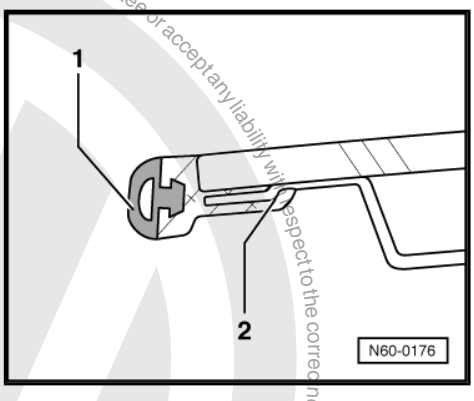
1.8 Panel Seal, Replacing

Perform the following:

– Remove the glass panel. Refer to ⇒ “1.4 Sliding/Tilting Sunroof Glass Panel, Removing and Installing”, page 171 .
– Remove the seal -1- from the glass panel -2-.
– Press the center of the new seal into the glass panel -2-.

Note

Coat the edge of the panel with soapy water to make it easier to install the seal.



1.9 Wind Deflector, Removing and Installing

⇒ “1.9.1 Removing”, page 175

⇒ “1.9.2 Installing”, page 176

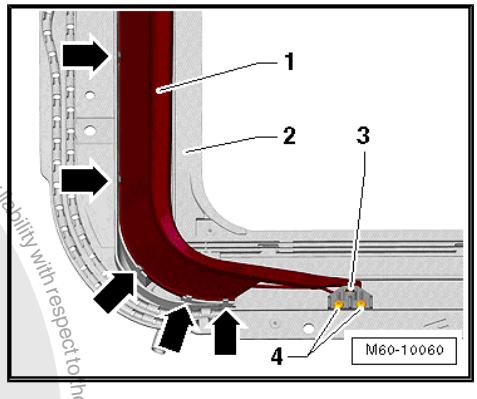
1.9.1 Removing

Perform the following:

– Open the sliding/tilting sunroof completely.
– Remove the assembly unit. Refer to ⇒ “1.15 Assembly Unit, Removing and Installing”, page 179 .

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– Unclip the wind deflector -1- from the unit -2- -arrows-.



Caution

The wind deflector and jointing piece are pretensioned by a spring in the wind deflector. The pretension must not be reduced when the bolt is loosened otherwise the thread in the unit will get damaged.

– Push the joint -3- onto the assembly unit -2- maintaining the pretension while removing the bolts.

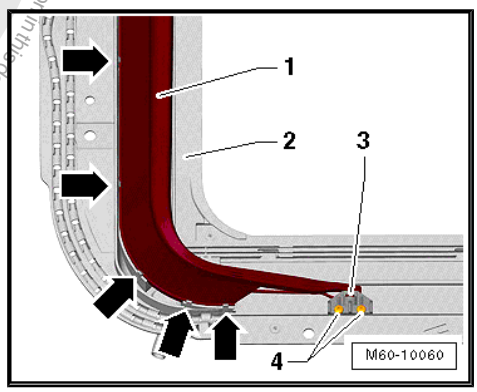
Remove the left bolts -4- first and then the right. Always push on the joining piece -3- while doing this to maintain the pretension.

– Remove the joints -3- with the springs and wind deflector -1-.

1.9.2 Installing

Perform the following:

– Position the wind deflector -1- with the springs and joining pieces -3- on the assembly unit -2-.



Caution

The wind deflector and jointing piece are pretensioned by a spring in the wind deflector. The pretension must not be reduced when the bolt is being installed otherwise the thread in the unit will get damaged.

– Push the joint -3- onto the assembly unit -2- maintaining the pretension while installing the bolts.

– Install the left bolts -4- first and then the right. Always push on the joint -3- while doing this to maintain the pretension.

Screw tightening specification -4-: 1.5 Nm

– Clip the wind deflector -1- into the assembly unit -2- -arrows-.

– Install the assembly unit. Refer to
⇒ “1.15 Assembly Unit, Removing and Installing”, page 179 .

1.10 Sun Shade, Removing and Installing

⇒ “1.10.1 Removing”, page 176

⇒ “1.10.2 Installing”, page 177

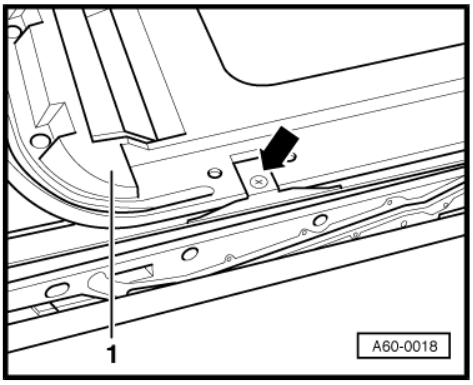
1.10.1 Removing

Perform the following:

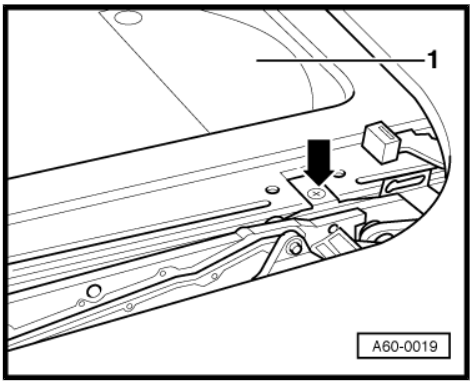
– Remove the glass panel. Refer to
⇒ “1.4 Sliding/Tilting Sunroof Glass Panel, Removing and Installing”, page 171 .

– Move the sun shade a little toward the rear.

– Remove the left and right front bolts -arrow-.
– Move the spring slider forward over the stop -1-.
– Move the sun shade forward and remove it through the roof opening.



– Remove the left and right rear bolts -arrow-.
– Move the spring slider toward the rear and remove sun shade -1-.



1.10.2 Installing

Perform the following:

Install in reverse order of removal.

Bolt tightening specification: 1 Nm

1.11 Sliding/Tilting Sunroof Motor, Removing and Installing

⇒ “1.11.1 Removing”, page 177

⇒ “1.11.2 Installing”, page 178

1.11.1 Removing

Perform the following:

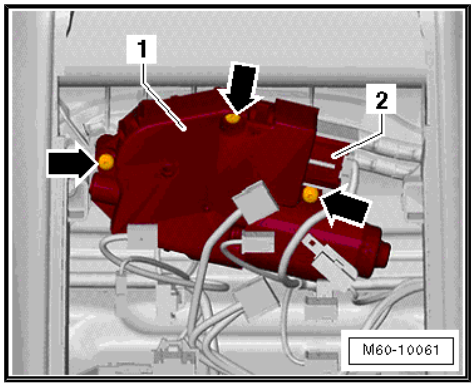
Note

Remove and install the sliding/tilting sunroof motor only when the glass panel is closed.

– Remove the Front Interior Lamp - W1- . Refer to ⇒ Electrical Equipment; Rep. Gr. 96 ; Controls; Front Interior Lamp/Reading Lamp, Removing and Installing .

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– Remove the bolts -arrows- and the sliding/tilting sunroof motor -1-.
– Disconnect the connector -2- from the sliding/tilting sunroof motor.



1.11.2 Installing

Perform the following:

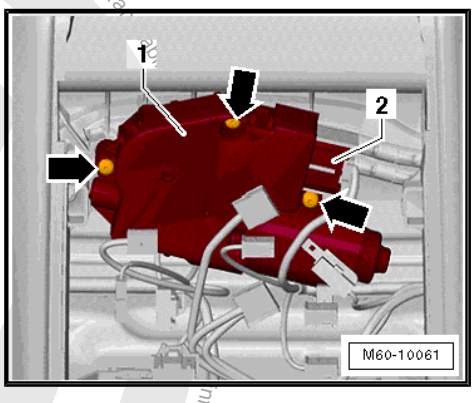
- Sliding/tilting sunroof motor in its neutral position.

If this is not the case, adjust the neutral position. Refer to ⇒ “1.12 Sliding/Tilting Sunroof Motor, Adjusting Neutral Position”, page 178 .

– Connect the connector -2- to the sliding/tilting sunroof motor.
– Install the sliding/tilting sunroof motor -1- and tighten the bolts -arrows-.

The tightening specification for the bolts -arrows-: 4 Nm

– Install the Front Interior Lamp - W1- . Refer to ⇒ Electrical Equipment; Rep. Gr. 96 ; Controls; Front Interior Lamp/Reading Lamp; Removing and Installing .
– Adapt the sliding/tilting sunroof motor. Refer to ⇒ “1.13 Sliding/Tilting Sunroof Motor, Adapting”, page 178 .



1.12 Sliding/Tilting Sunroof Motor, Adjusting Neutral Position

Perform the following:

– Motor is removed, connectors connected.
– Select “roof closed” with the rotary switch.
– The motor automatically runs to neutral position and is switched off.
– Install the motor in this position with sunroof closed.

1.13 Sliding/Tilting Sunroof Motor, Adapting

Note

In order for the sliding/tilting sunroof to work correctly after the sunroof motor has been removed/installed or replaced adapt the sunroof motor.

– Switch on the ignition and close the doors. If necessary, close the sliding sunroof.
– Pull the sliding/tilting sunroof control switch and hold it in that position for 10 seconds.

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– The glass panel will tilt, it will open all the way to stop and then it will close.

♦ Keep pulling the sliding/tilting sunroof switch during the adaptation process.

♦ This completes the adaptation process.

1.14 Automatic Rotary Switch for Sliding/Tilting Sunroof, Removing

⇒ "1.14.1 Removing", page 179

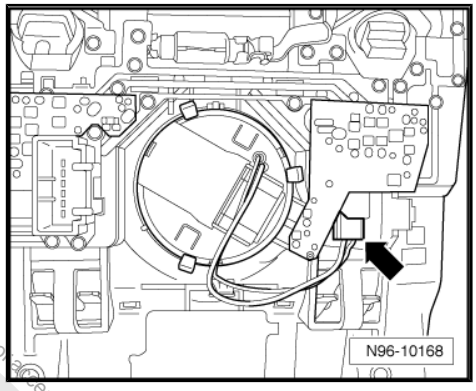
⇒ "1.14.2 Installing", page 179

1.14.1 Removing

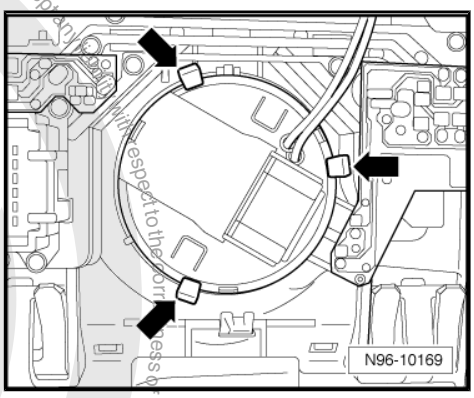
Perform the following:

– Remove the Front Interior Lamp - W1- . Refer to ⇒ Electrical Equipment; Rep. Gr. 96 ; Controls; Front Interior Lamp/Reading Lamp, Removing and Installing .

– Disconnect and remove the connector -arrow-.



– Open the tabs -arrows- and remove the controls for the sliding/tilting sunroof.



1.14.2 Installing

Perform the following:

Install in reverse order of removal.

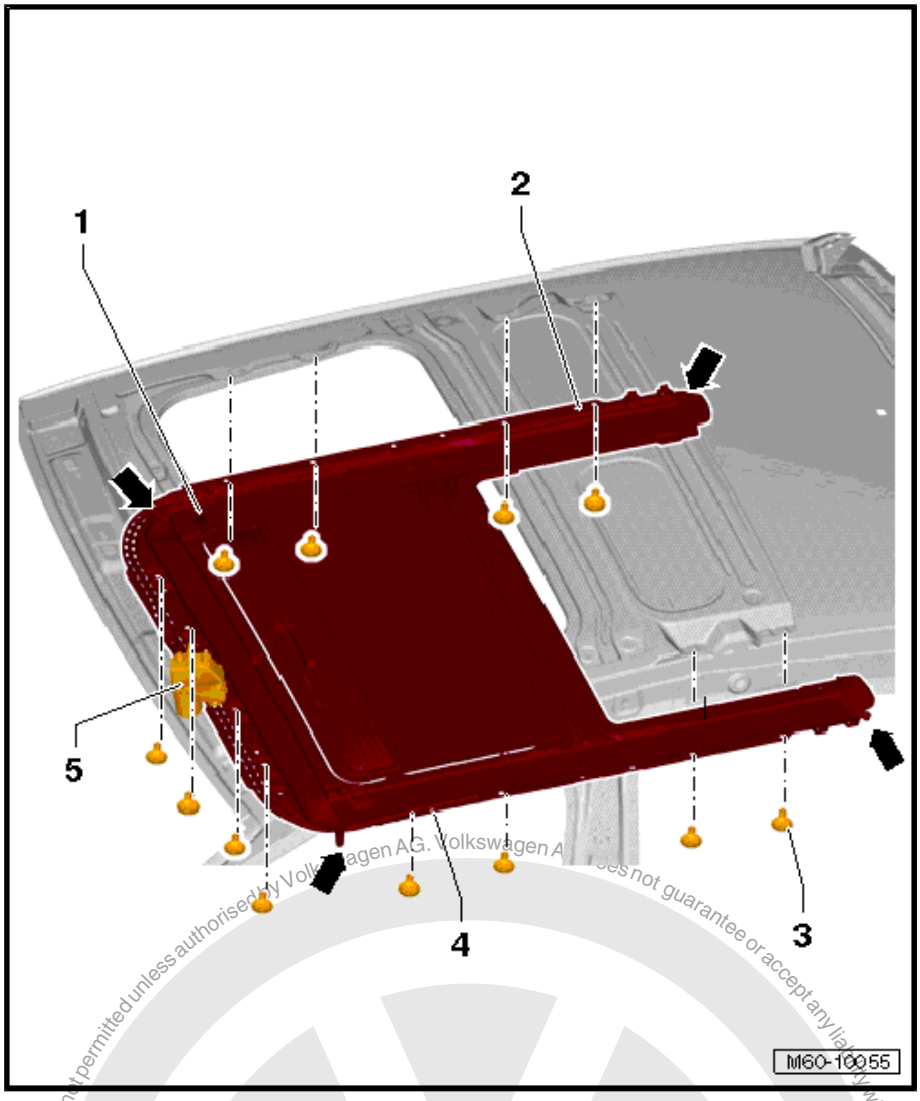
1.15 Assembly Unit, Removing and Installing

⇒ "1.15.1 Removing", page 179

⇒ "1.15.2 Installing", page 181

1.15.1 Removing

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Perform the following:

– Lower the headliner but do not remove it from the vehicle. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Roof Trim Panels .

– Remove the water drain hoses from the connections -arrows- on the assembly unit -1-.

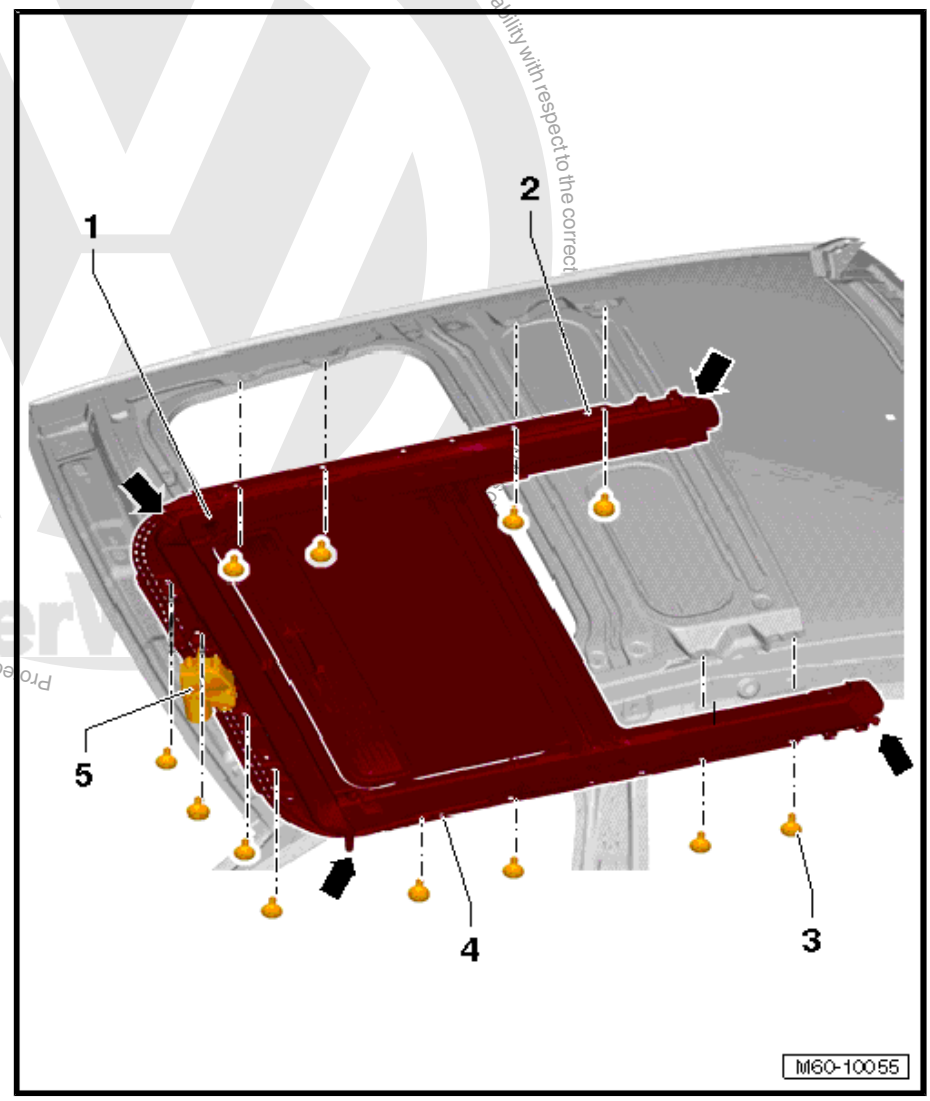
– Disconnect the connector from the sliding/tilting sunroof motor -5-.

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

– Remove the bolts -3- and the assembly unit -1- from the vehicle. A second technician will be needed to do this.

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1.15.2 Installing



Perform the following:

– With the help of a second technician, insert the assembly unit -1- into the roof opening.

– Line up the assembly unit -1- over the two cylindrical pins at the front right 12 mm -4- and rear left 10 mm -2- inside the roof.

The assembly unit must not make contact with roof frame.

– Install the bolts -3- but do not tighten them.

– Check the routing of the electrical equipment wires and connectors on the roof and correct if necessary.

– Tighten the 2 bolts -3-, right front and left rear.

– Tighten the left and right bolts -3- on the assembly unit -1-.

– Tighten the front bolts -3- on the assembly unit -1-.

Bolt tightening specification -3-: 8 Nm

– Attach the water drain hoses to the connections -arrows- on the assembly unit -1-.

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– Install the headliner. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Roof Trim Panels .

1.16 Water Drain Hoses, Cleaning

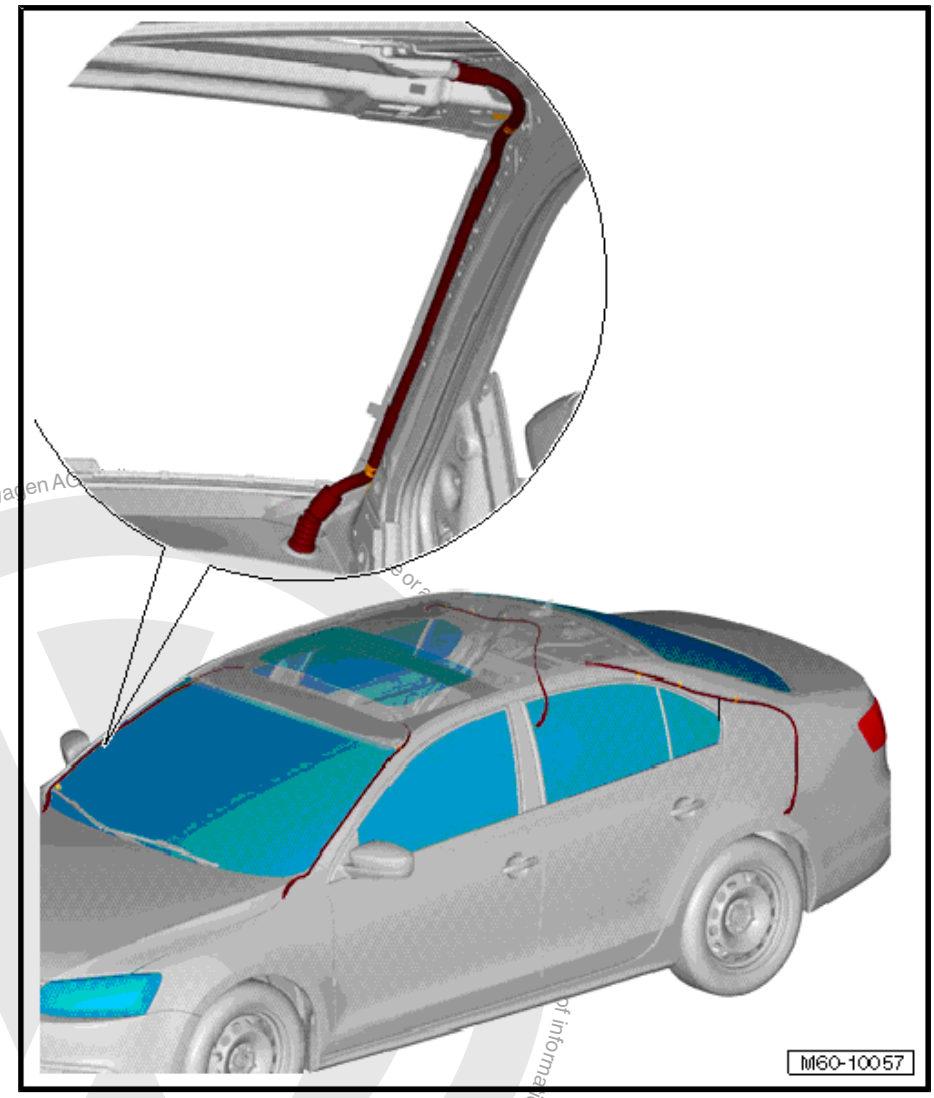
⇒ “1.16.1 Front Water Drain Hoses”, page 182

⇒ “1.16.2 Rear Water Drain Hoses”, page 183

1.16.1 Front Water Drain Hoses

Note

For cleaning, an assisting tool is recommended, such as a speedometer driveshaft inner cable, approximately 2300 mm long.



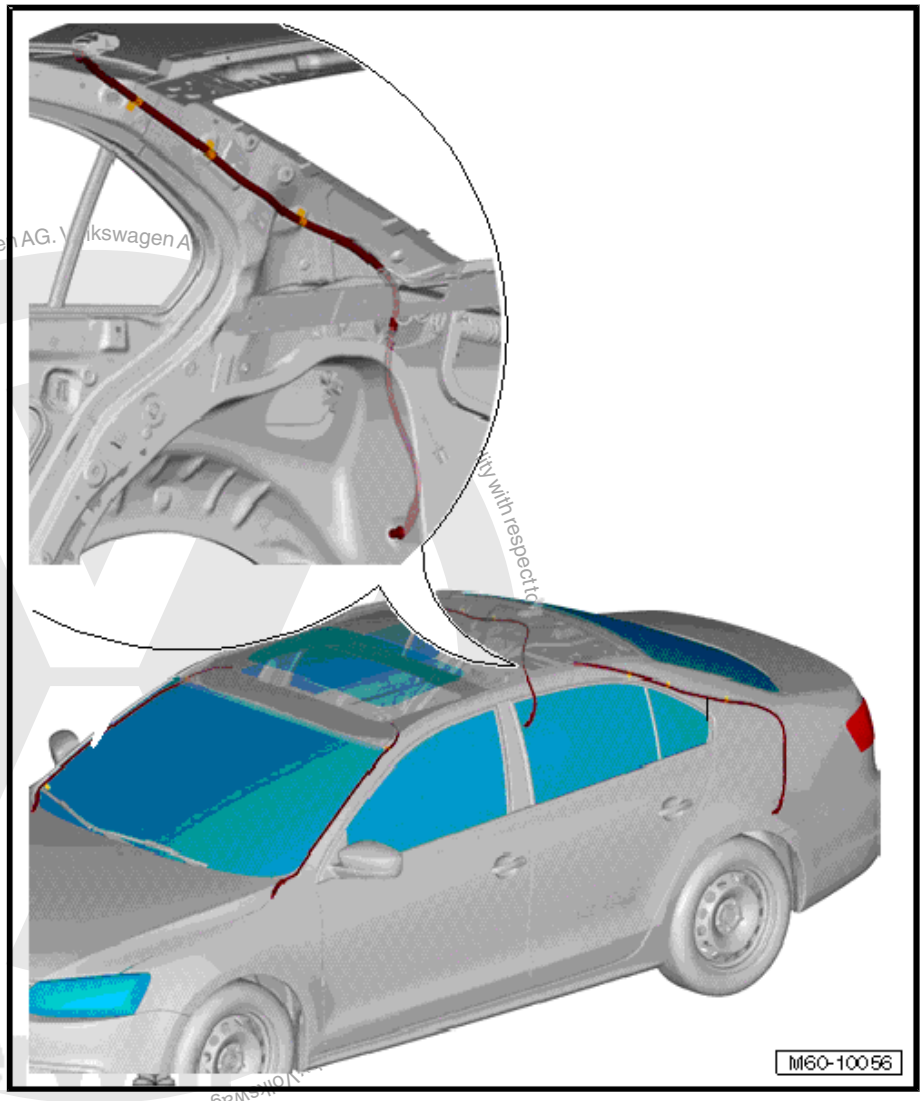
Route the water drain hoses at front on A-pillar and end at the facing wall crossmember. They are cleaned from the sliding/tilting sunroof opening.

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1.16.2 Rear Water Drain Hoses

Note

For cleaning, an assisting tool is recommended, such as a speedometer driveshaft inner cable, approximately 2300 mm long.



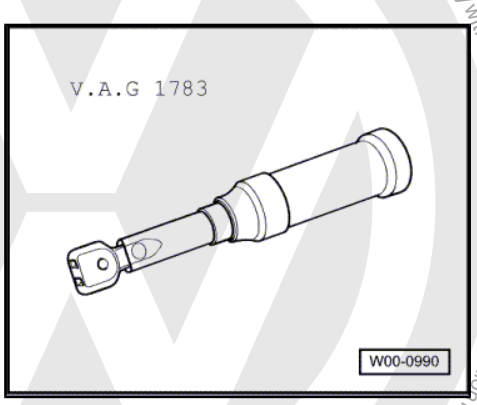
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The rear water drain hoses run through the C-pillars and end in the rear wheel housings. Clean starting from the wheel housing outward, wheel housing liner must be removed to do so. Refer to ⇒ “1.3 Front Wheel Housing Liner, Removing and Installing”, page 261 .

2 Special Tools

Special tools and workshop equipment required

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



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63 – Bumpers

1 Front Bumper Cover

⇒ “1.1 Tools”, page 185

⇒ “1.2 Front Bumper Cover, Servicing”, page 185

⇒ “1.3 Parking Aid Bracket, Installing”, page 185

⇒ “1.4 Overview - Front Bumper Cover”, page 189

⇒ “1.5 Front Bumper Cover, Removing and Installing”, page 190

⇒ “1.6 Front Bumper Cover Attachments”, page 192

⇒ “1.7 Front License Plate Holder, Installing”, page 193

⇒ “1.8 Overview - Front Bumper Cover Guides”, page 194

⇒ “1.9 Overview - Front Bumper Carrier”, page 195

1.1 Tools

Special tools and workshop equipment required

- Torque Wrench 1783 - 2-10Nm - VAG1783-
- Torque Wrench 1332 40-200Nm - VAG1332-

1.2 Front 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 ; Plastic Repair Methods for the description.

1.3 Parking Aid Bracket, Installing

⇒ “1.3.1 Tools”, page 185

⇒ “1.3.2 Materials”, page 185

⇒ “1.3.3 Bracket, Installing”, page 186

⇒ “1.3.4 Minimum Curing Time”, page 189

1.3.1 Tools

Special tools and workshop equipment required

- Hand Cartridge Gun - VAS5155-
- PDC Holder Tool Set - VAS6614B-

1.3.2 Materials

- Two-Part Plastic-Adhesive - D 180 K2 A1- Refer to [1)]. [1] Refer to [2)]. [2]
- Bonding Agent for Plastic - D 822 150 A1- Refer to [1)]. [1]
- Cleaning Solution - D 009 401 04- Refer to [1)]. [1]

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♦ Primer Applicator

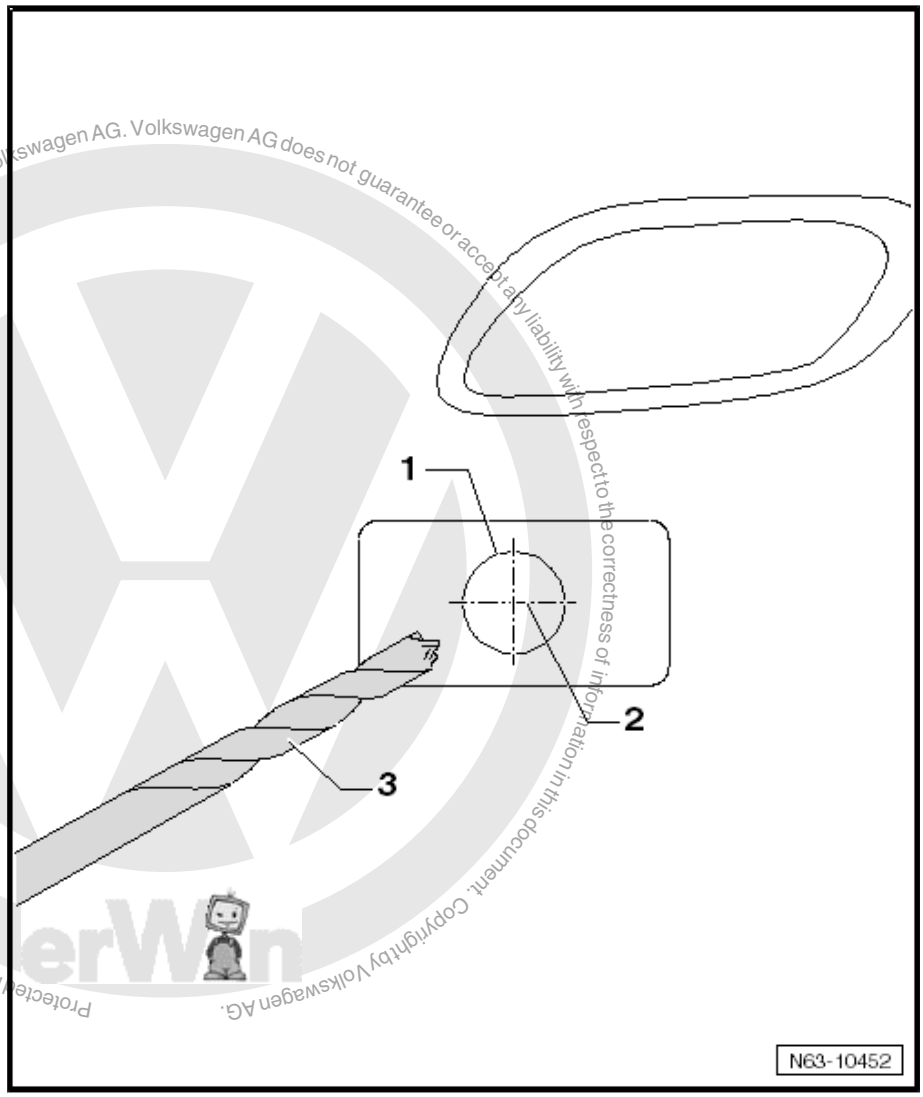
1) Follow the manufacturer processing instructions supplied in the packaging.

2) Observe the minimum curing time. Refer to
⇒ “1.3.4 Minimum Curing Time”, page 189 .

1.3.3 Bracket, Installing

Note

After the bumper cover is painted, install the brackets.

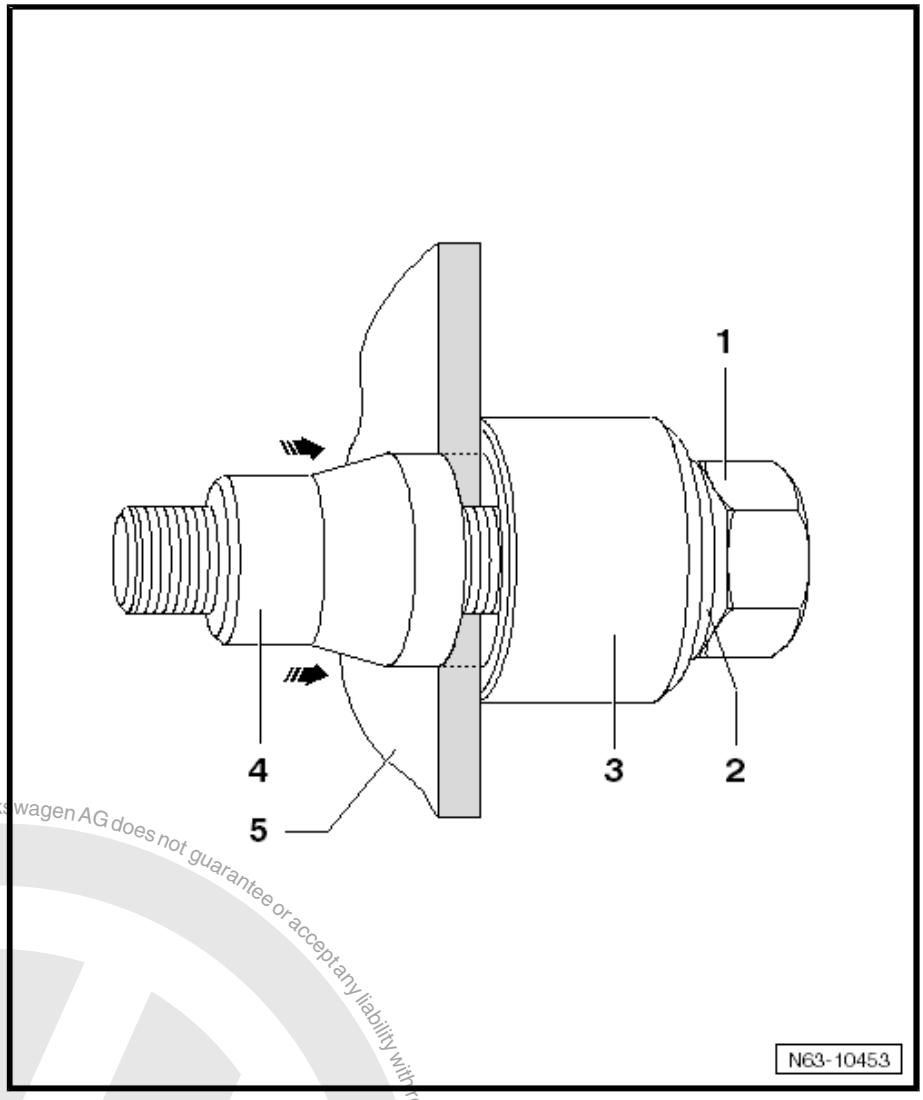


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The four markings for the bracket -1- are found on the inside of the bumper cover.

– Determine the central point -2-, if not already present.

– Drill the holes from the inside outward with the drill -3- supplied in the tool kit.



– Position the hole stamper with the bolt head -1-, washer -2- and counterholder -3- on the inside of the bumper cover -5-.
– Position the iron punch -4- almost up to the bumper cover.
– Push the iron punch -4- onto the bumper cover.
– Tighten the hole stamper -1-.

Note

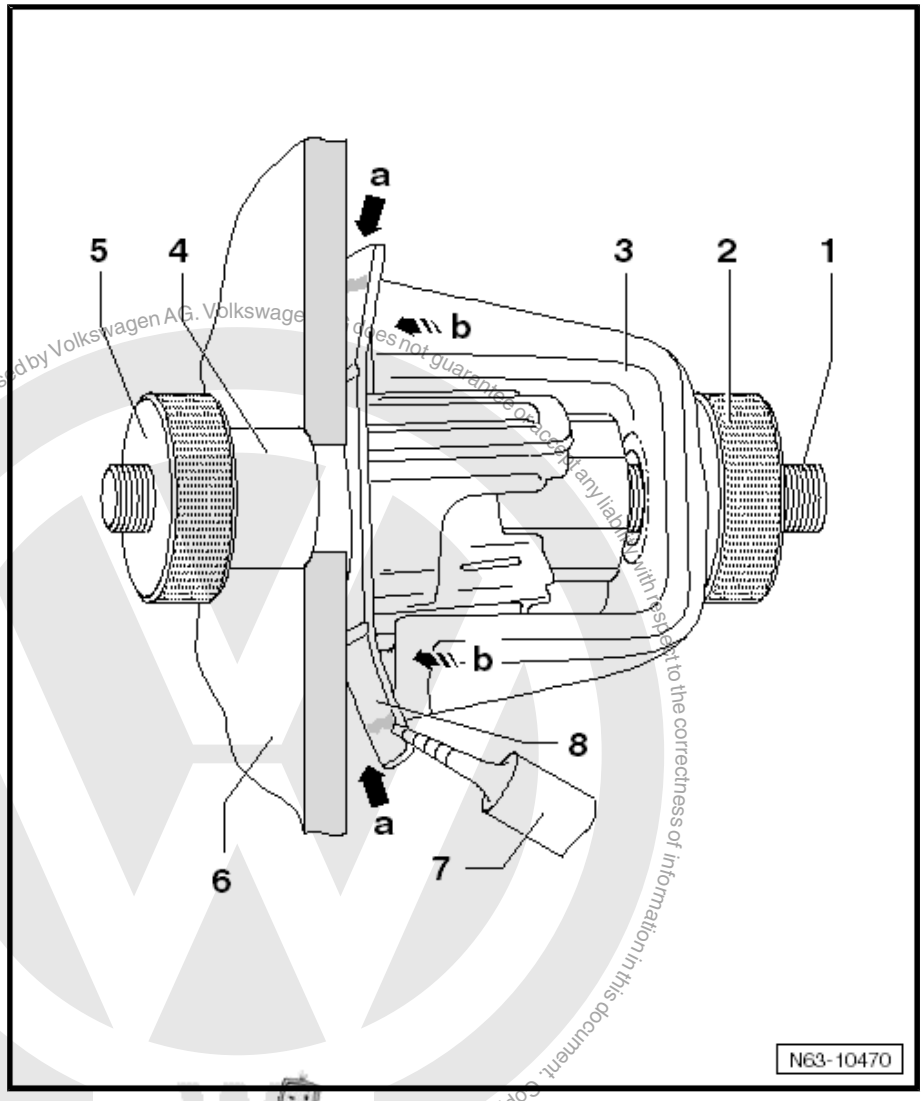
The iron punch -4- must not rotate on the bumper cover paint.

– By turning at 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 holes.
– Thoroughly clean the bumper cover and bracket with cleaning solution.

Note

Approximately 1 cm of adhesive from the tip should not be applied.

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– Lightly sand the inside of the bumper cover -6- and thoroughly clean it.
– Apply primer to the bumper cover and bracket and allow to air dry for 10 minutes.
– Slide the bracket -8- onto the centering drift -1- and push it through the bumper cover -6-.
– Slide on the counterholder -4- and lightly tighten the knurled nut -5-.
– Slide on the clamping clip -3- and position the knurled nut -2-, but do not tighten.
– All brackets are prepared up to this step.

Note

The adhesive cannot run up to the bend.

– Apply the adhesive as shown in the illustration and tighten the knurled nut -2-.
– Remove all of the centering drifts after the minimum curing time. Refer to ⇒ “1.3.4 Minimum Curing Time”, page 189 for minimum curing time.

1.3.4 Minimum Curing Time

Wait 30 minutes for the minimum curing time before performing any further work on the bumper cover and the brackets.

The bumper cover must stay in place and may not be moved during this time.

1.4 Overview - Front Bumper Cover

Note

Depending on the model version, there are minor differences in the front bumper covers.

1 - Front Bumper Cover

- ❑ PP/EPDM material
- ❑ Removing and installing. Refer to ⇒ "1.5 Front Bumper Cover, Removing and Installing", page 190 .

2 - Screw

- ❑ Tightening specification: 2.7 Nm
- ❑ Left and right
- ❑ Pointing upward

3 - Screw

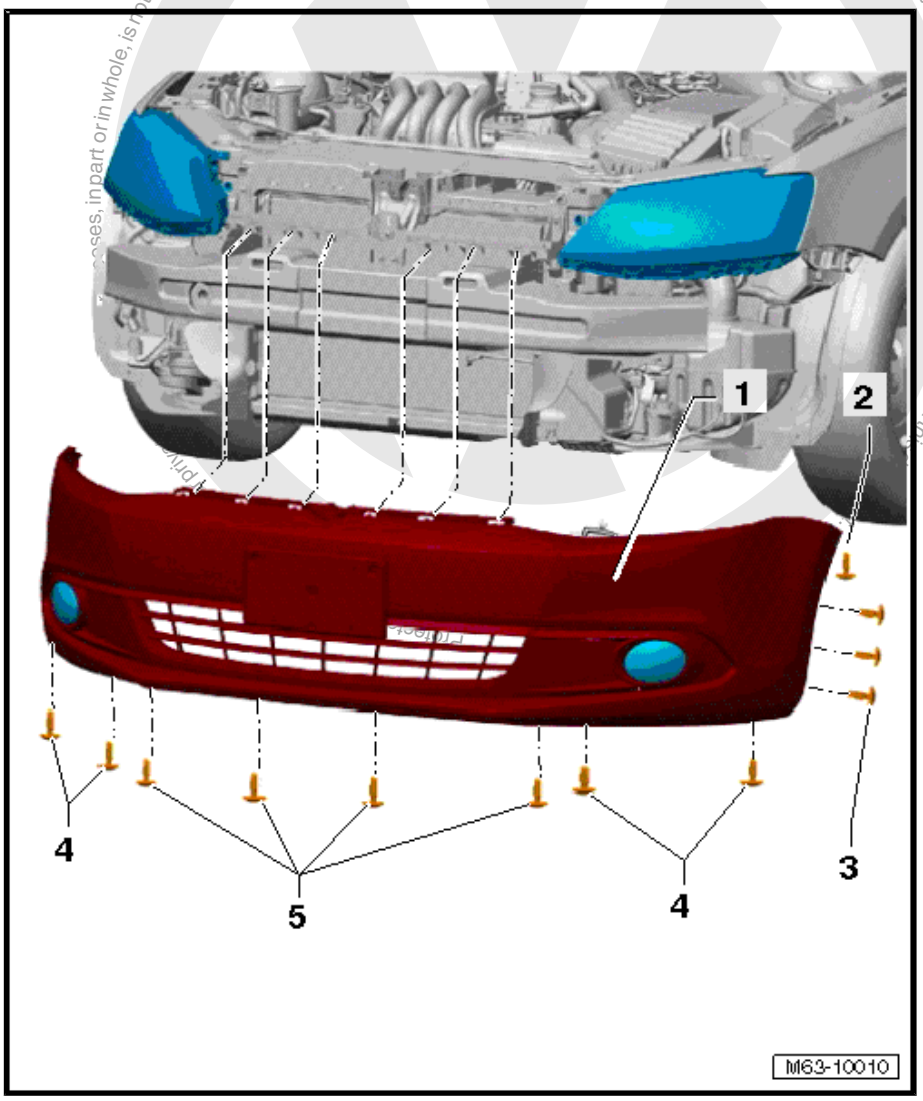
- ❑ Tightening specification: 2 Nm
- ❑ Quantity: 4 on each side
- ❑ Attached to the wheel housing liner

4 - Screw

- ❑ Tightening specification: 2 Nm
- ❑ Quantity: 2 on each side
- ❑ Attached to the wheel housing liner

5 - Screw

- ❑ Tightening specification: 2 Nm
- ❑ Quantity: 4
- ❑ Attached to the lock carrier



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1.5 Front Bumper Cover, Removing and Installing

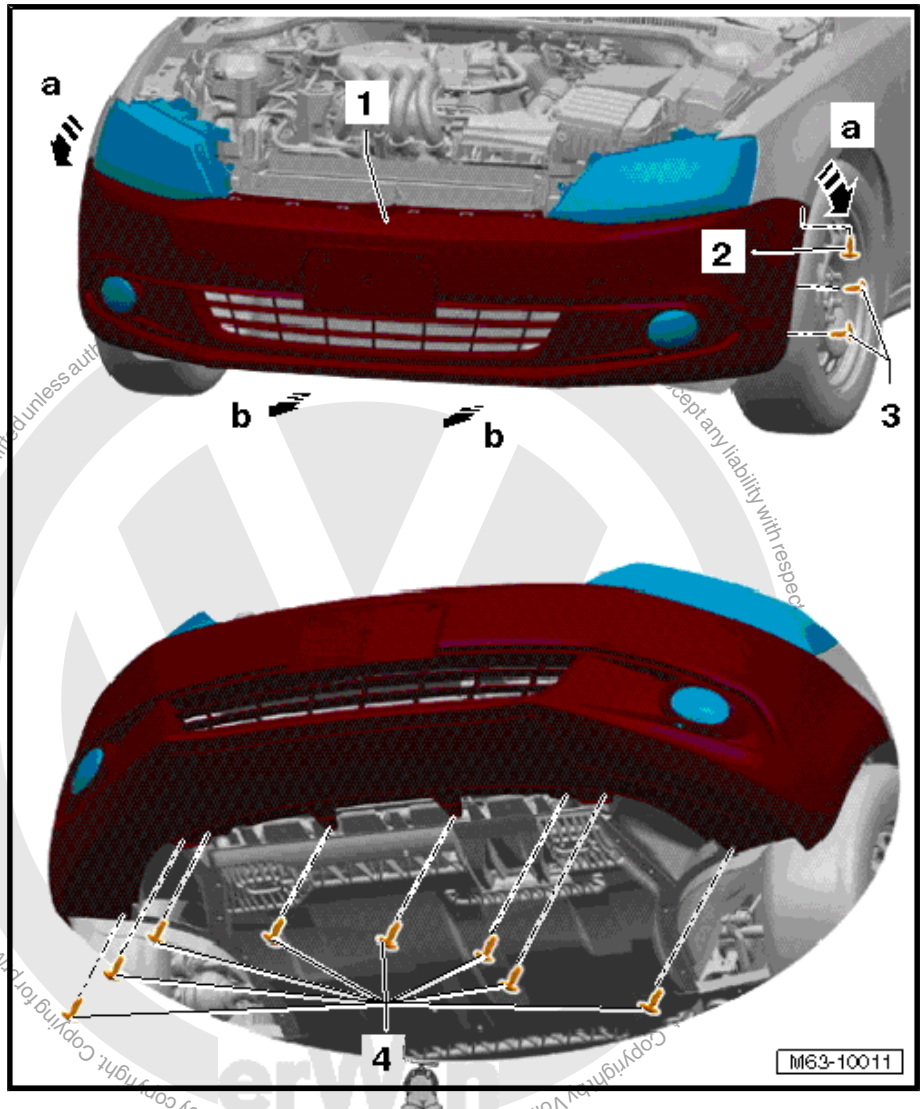
⇒ “1.5.1 Removing”, page 190

⇒ “1.5.2 Installing”, page 191

1.5.1 Removing

Note

Depending on the model version, slight deviations of the front bumper cover must be considered when removing and installing.



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Perform the following:

– Remove the radiator grille. Refer to ⇒ “3.2 Radiator Grille, Removing and Installing”, page 291 .

– Remove the bolts -2- in the wheel housing (pointing upward) on the left and right sides.

– Remove the left and right wheel housing liner bolts -3-.

– Remove the bolts -4- from underneath.

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

– Pull the front bumper cover -1- out of the guides on the left and right sides of the fender in direction of -arrows a-.

– Remove the front bumper cover -1- in direction of -b arrows- from the vehicle. A second technician is needed for this.

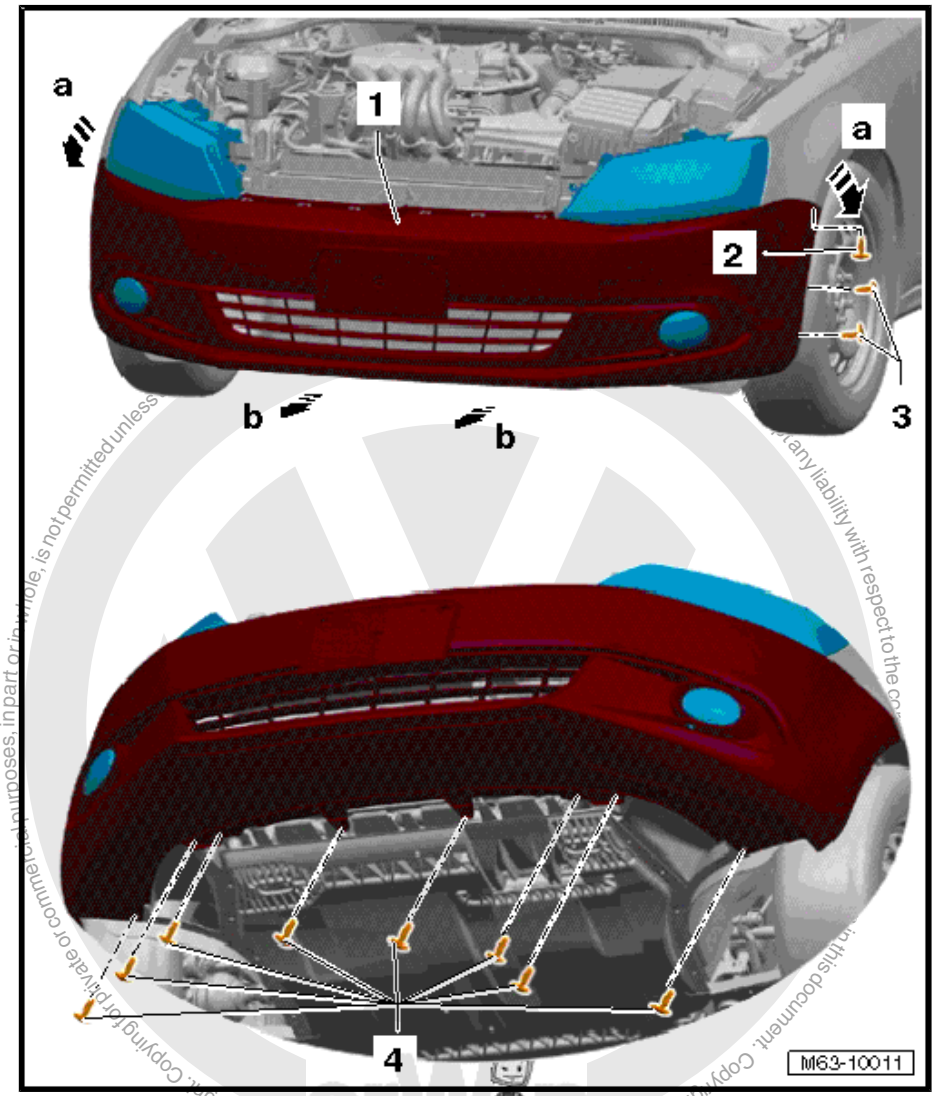
– Disconnect the connectors from any electrical components.

Refer to ⇒ Electrical Equipment; Rep. Gr. 94 for more information regarding the parking aid.

Refer to ⇒ Electrical Equipment; Rep. Gr. 94 for more information regarding the parallel parking assistance.

– Disconnect the hose coupling on windshield washer fluid hose. Refer to ⇒ Electrical Equipment; Rep. Gr. 92 .

1.5.2 Installing



Perform the following:

– Connect the hose coupling on washer fluid hose. Refer to ⇒ Electrical Equipment; Rep. Gr. 92 .

– Connect the connectors of any components.
– Install the front bumper cover -1- into the center guide on the lock carrier.
– Push the front bumper cover -1- into the guides on the left and right fenders until it locks.
– Note the parallel alignment and gap dimensions. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions; Body Front .
– Tighten the bolts -2, 3 and 4-. Refer to ⇒ “1.4 Overview - Front Bumper Cover”, page 189 .
– Install the radiator grille. Refer to ⇒ “3.2 Radiator Grille, Removing and Installing”, page 291 .

1.6 Front Bumper Cover Attachments

Note

Depending on the model version, slight deviations for attachments must be considered.

1 - Front Bumper Cover
- ❑ PP/EPDM material
- ❑ Removing and installing. Refer to ⇒ “1.5 Front Bumper Cover, Removing and Installing”, page 190 .

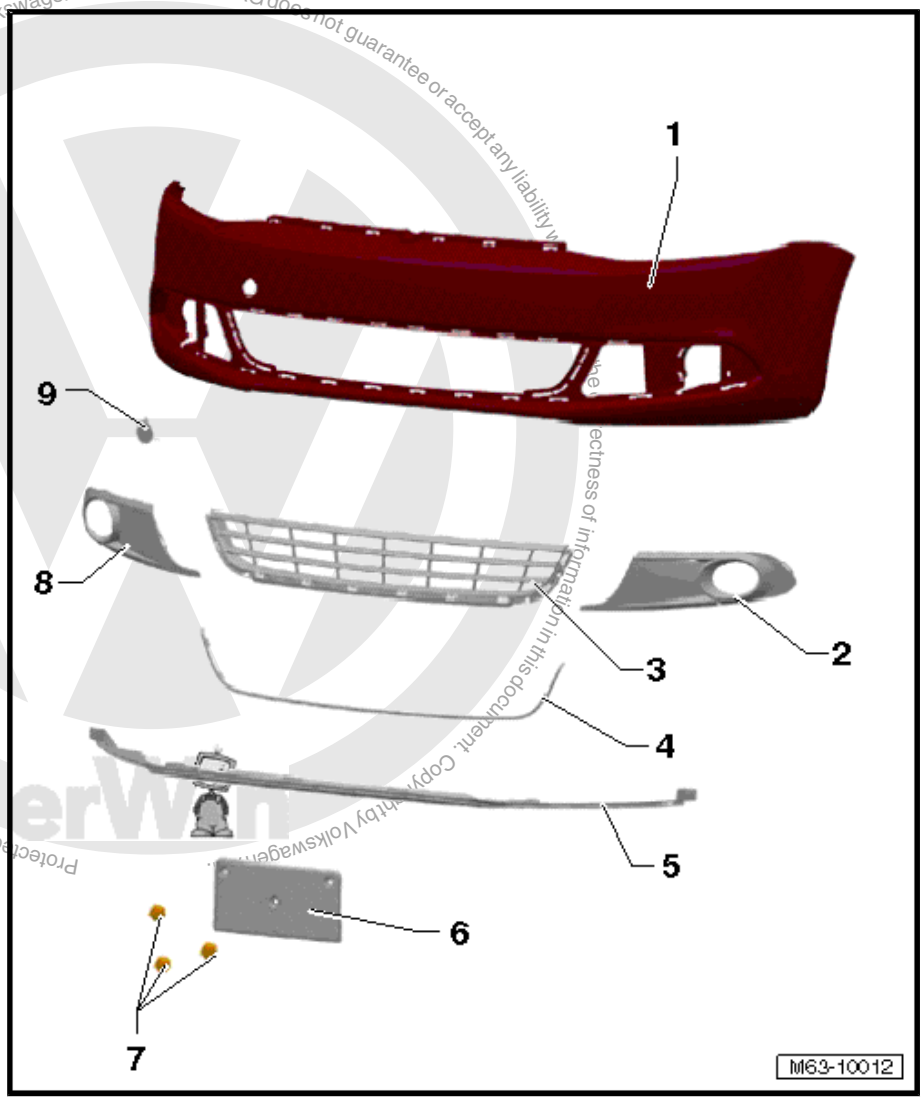
2 - Left Cover
- ❑ Pull forward out of the retainer
- ❑ There are different versions. Refer to the Parts Catalog for the allocation.

3 - Center Air Grille
- ❑ Remove only when bumper cover -1- has been removed
- ❑ There are different versions. Refer to the Parts Catalog for the allocation.

4 - Trim Molding
- ❑ Center air grille depending on the model -3-

5 - Spoiler
- ❑ Remove only when bumper cover -1- has been removed

6 - License Plate Holder
- ❑ Not installed on all models for all markets.
- ❑ There are different versions. Refer to the Parts Catalog for the allocation.



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7 - Clip

- ❑ For attaching the license plate holder -6-

8 - Right Cover

- ❑ Pull forward out of the retainer
- ❑ There are different versions. Refer to the Parts Catalog for the allocation.

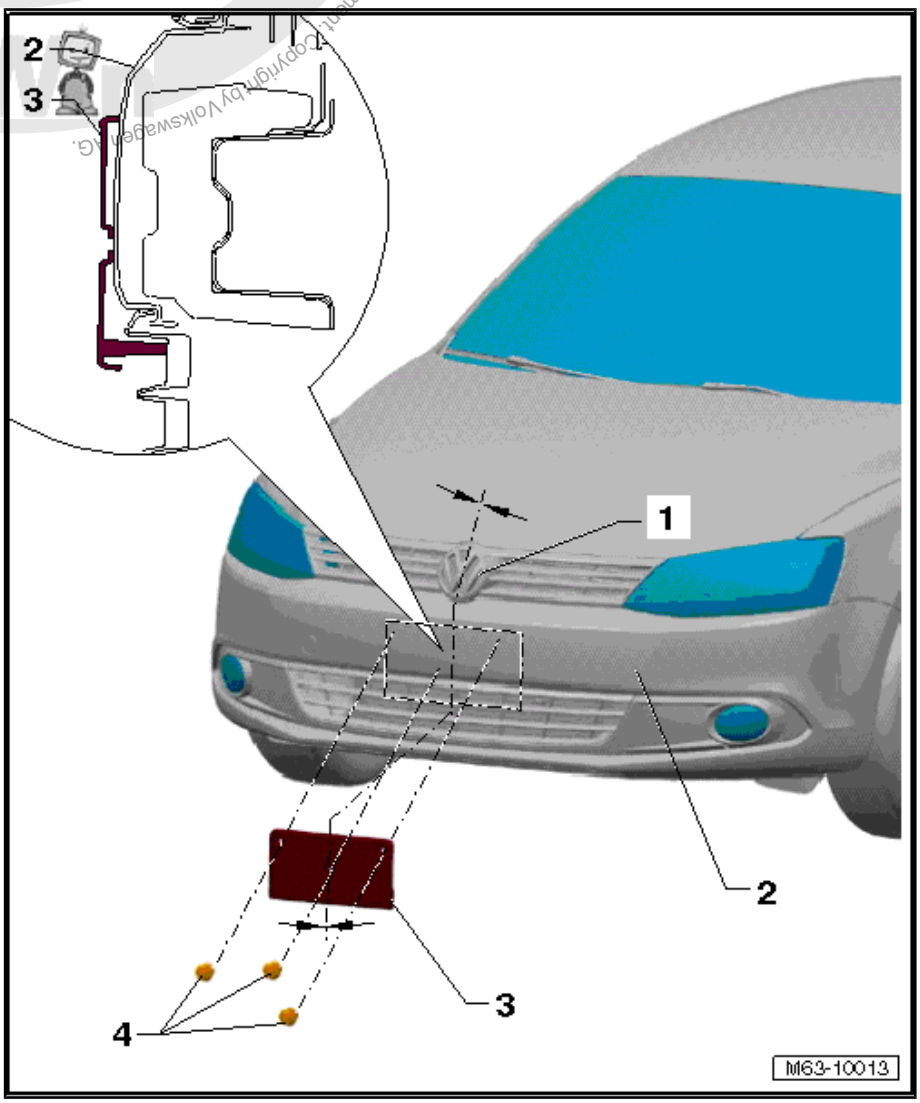
9 - Cover

- ❑ For the towing eye

1.7 Front License Plate Holder, Installing

Note

- *The license plate holder is not installed on all models for all markets.*
- *The license plate holder can have different sizes depending on the market.*
- *The contour of the bumper determines the height of the license plate holder.*
- *Drill 12 mm holes.*



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Perform the following:

With Holes Present

– Position the license plate holder -3- on the front bumper cover -2- and push the clips -4- in.

With No Holes Present

– Center the license plate holder -3- on the front bumper cover -2-with the emblem -1-.

– Make a 12 mm stop depth mark and drill the holes.

– Position the license plate holder -3- on the front bumper cover -2- and push the clips -4- in.

1.8 Overview - Front Bumper Cover Guides

1 - Center Guide

2 - Side Guide

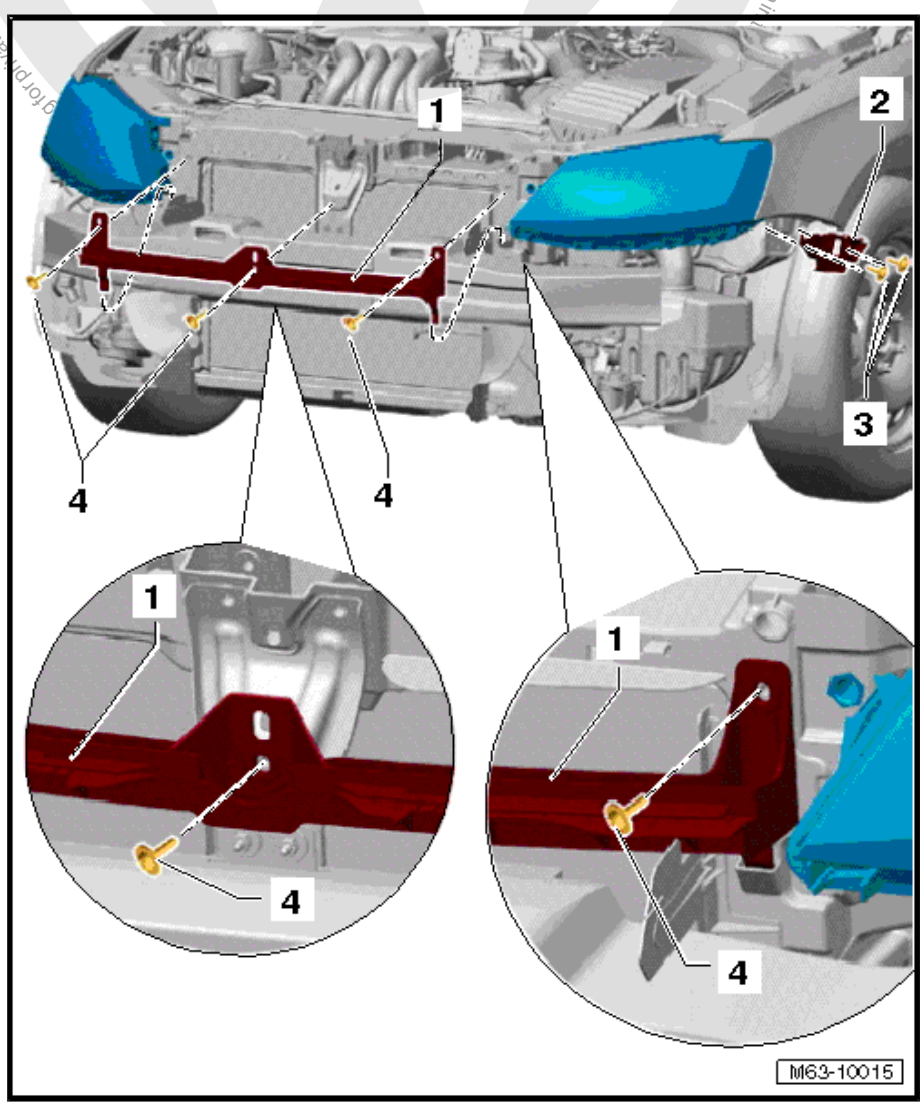
- ❑ Left and right

3 - Screw

- ❑ Tightening specification: 2.7 Nm
- ❑ Quantity: 2 on each side

4 - Bolt

- ❑ Tightening specification: 8 Nm
- ❑ Quantity: 3



1.9 Overview - Front Bumper Carrier

1 - Front Bumper Carrier

2 - Bolt

- ❑ 8 Nm
- ❑ Quantity: 2 on each side

3 - Foam Piece

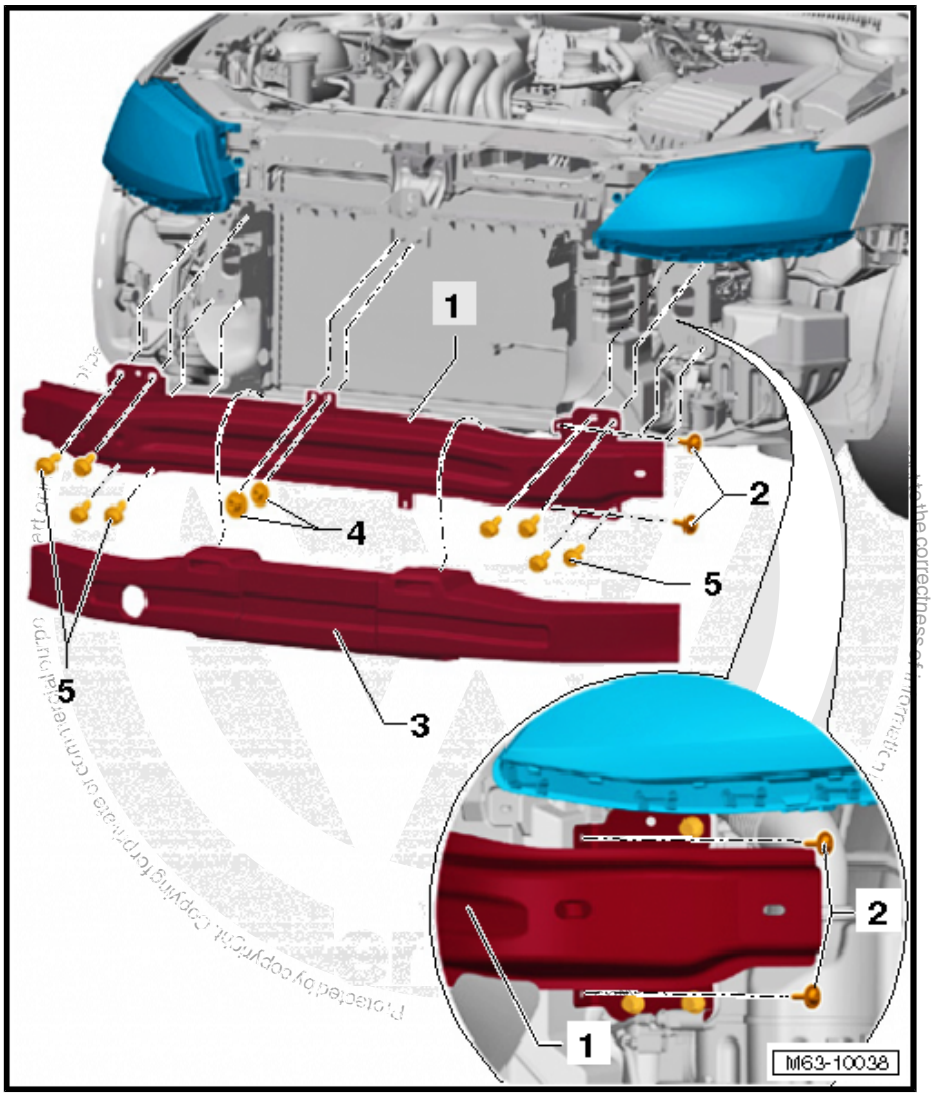
- ❑ Self-adhesive
- ❑ Not installed in all model versions

4 - Nut

- ❑ 8 Nm
- ❑ Quantity: 2

5 - Screw

- ❑ 60 Nm
- ❑ Quantity: 4 on each side



2 Rear Bumper Cover

⇒ “2.1 Tools”, page 196

⇒ “2.2 Rear Bumper Cover, Servicing”, page 196

⇒ “2.3 Parking Aid Bracket, Installing ”, page 196

⇒ “2.4 Overview - Rear Bumper Cover”, page 200

⇒ “2.5 Rear Bumper Cover, Removing and Installing”, page 201

⇒ “2.6 Overview - Rear Bumper Cover Guides”, page 204

⇒ “2.7 Overview - Rear Bumper Carrier”, page 205

⇒ “2.8 Overview - Trailer Hitch”, page 205

2.1 Tools

Special tools and workshop equipment required

- Torque Wrench 1331 5-50Nm - VAG1331-
- Torque Wrench 1783 - 2-10Nm - VAG1783-

2.2 Rear Bumper Cover, Servicing

Note

If the rear 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 ; Plastic Repair Methods for the description.

2.3 Parking Aid Bracket, Installing

⇒ “2.3.1 Tools”, page 196

⇒ “2.3.2 Materials”, page 197

⇒ “2.3.3 Bracket, Installing”, page 197

⇒ “2.3.4 Minimum Curing Time”, page 200

2.3.1 Tools

Special tools and workshop equipment required

- Hand Cartridge Gun - VAS5155-
- PDC Holder Tool Set - VAS6614B-

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2.3.2 Materials

- Two-Part Plastic-Adhesive - D 180 K2 A1- Refer to 3). 1 Refer to 4). 2
- Bonding Agent for Plastic - D 822 150 A1- Refer to 3). 1
- Cleaning Solution - D 009 401 04- Refer to 3). 1
- Primer Applicator

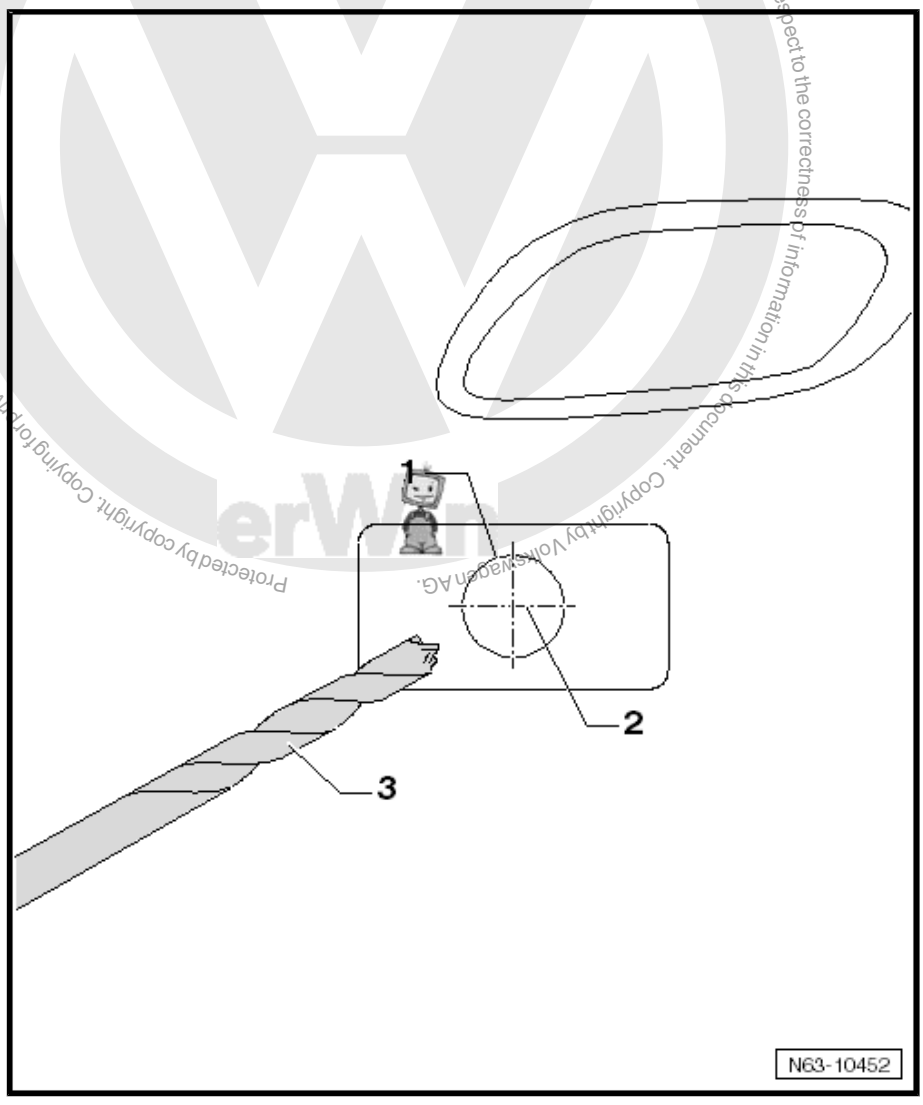
3) Follow the manufacturer processing instructions supplied in the packaging.

4) Observe the minimum curing time. Refer to
⇒ “2.3.4 Minimum Curing Time”, page 200 .

2.3.3 Bracket, Installing

Note

After the bumper cover is painted, install the brackets.

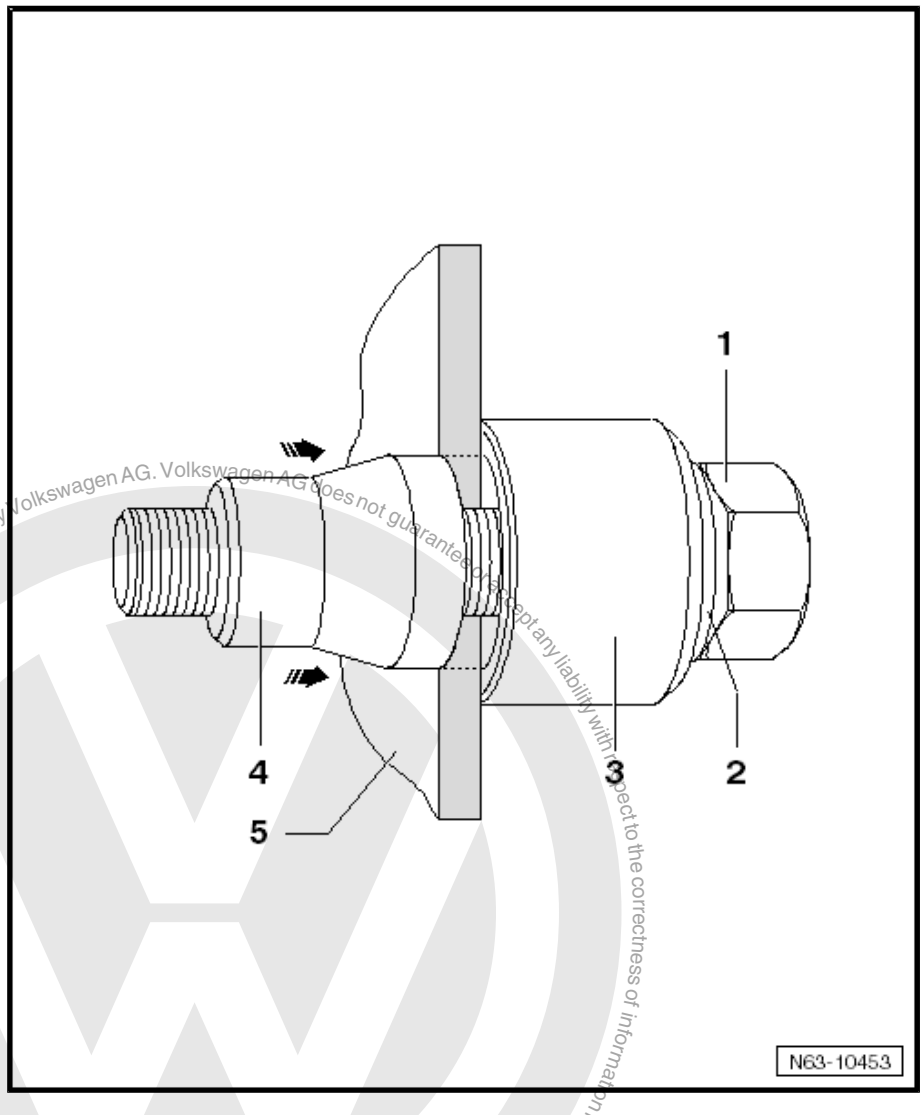


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The four markings for the bracket -1- are found on the inside of the bumper cover.

– Determine the central point -2-, if not already present.

– Drill the holes from the inside outward with the drill -3- supplied in the tool kit.



– Position the hole stamper with the bolt head -1-, washer -2- and counterholder -3- on the inside of the bumper cover -5-.

– Position the iron punch -4- almost up to the bumper cover.

– Push the iron punch -4- onto the bumper cover.

– Tighten the hole stamper -1-.

Note

The iron punch -4- must not rotate on the bumper cover paint.

– By turning at the bolt head -1-, the iron punch -4- is pulled through the bumper cover material -5- -arrows-.

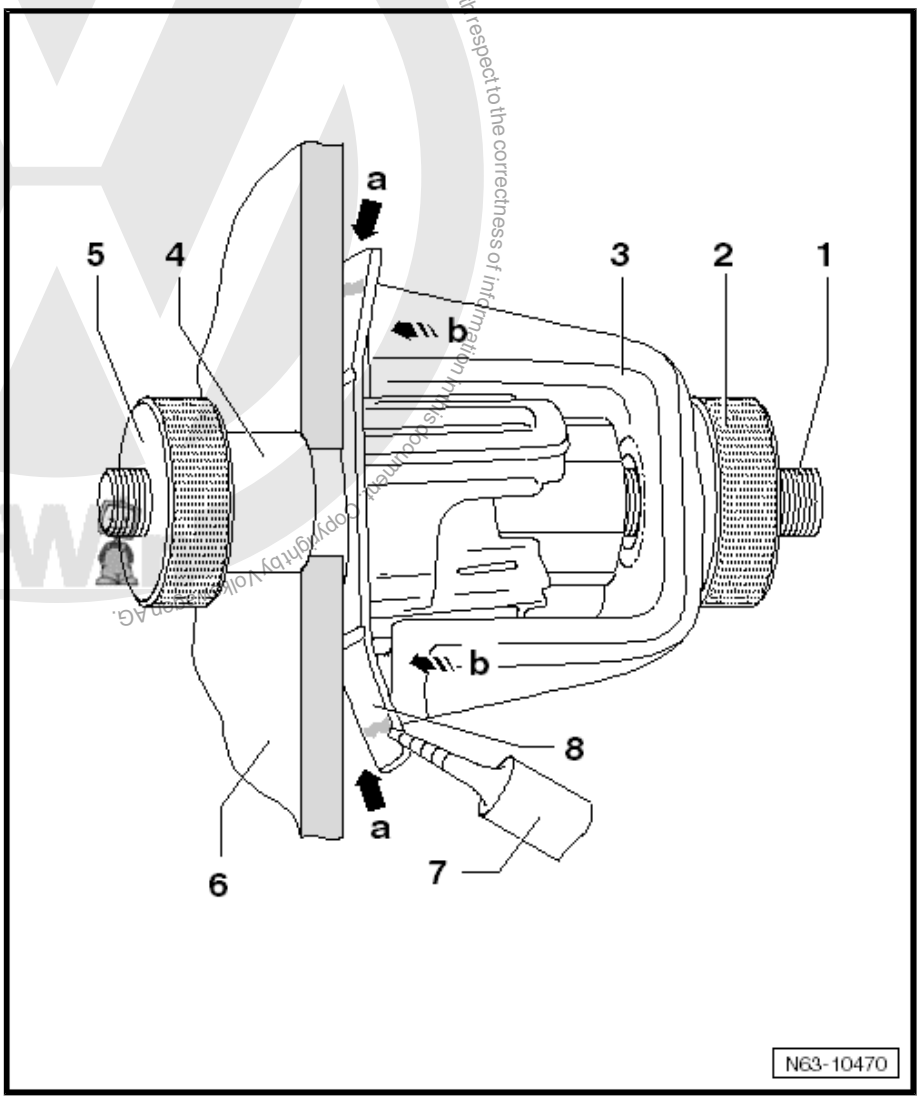
– Remove the hole stamper and stamp the next holes.

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– Thoroughly clean the bumper cover and bracket with cleaning solution.

Note

Approximately 1 cm of adhesive from the tip should not be applied.



– Lightly sand the inside of the bumper cover -6- and thoroughly clean it.
– Apply primer to the bumper cover and bracket and allow to air dry for 10 minutes.
– Slide the bracket -8- onto the centering drift -1- and push it through the bumper cover -6-.
– Slide on the counterholder -4- and lightly tighten the knurled nut -5-.
– Slide on the clamping clip -3- and position the knurled nut -2-, but do not tighten.
– All brackets are prepared up to this step.

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Note

The adhesive cannot run up to the bend.

– Apply the adhesive as shown in the illustration and tighten the knurled nut -2-.
– Remove all of the centering drifts after the minimum curing time. Refer to ⇒ “2.3.4 Minimum Curing Time”, page 200 for minimum curing time.

2.3.4 Minimum Curing Time

Wait 30 minutes for the minimum curing time before performing any further work on the bumper cover and the brackets.

The bumper cover must stay in place and may not be moved during this time.

2.4 Overview - Rear Bumper Cover

Note

Depending on model version, there are minor differences in the rear bumper covers.

1 - Center Guide

2 - Rear Bumper Cover
- ❑ PP/EPDM material
- ❑ Removing and installing. Refer to ⇒ “2.5 Rear Bumper Cover, Removing and Installing”, page 201 .

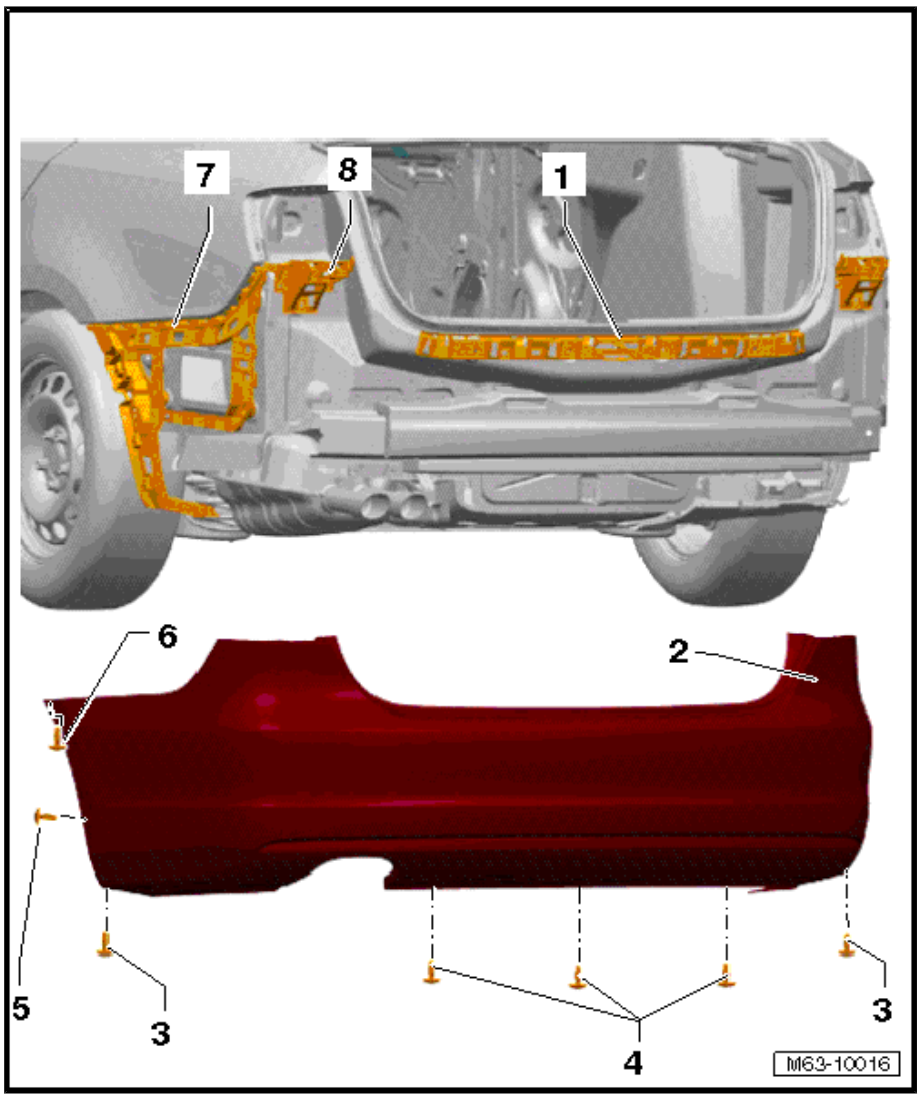
3 - Screw
- ❑ Tightening specification: 2.7 Nm
- ❑ Quantity: 1 on each side

4 - Screw
- ❑ Tightening specification: 2.7 Nm
- ❑ Quantity: 3

5 - Screw
- ❑ Tightening specification: 2.7 Nm
- ❑ Quantity: 1 on each side

6 - Screw
- ❑ Tightening specification: 2.7 Nm
- ❑ Quantity: 1 on each side

7 - Side Guide
- ❑ Left and right



8 - Retaining Bracket

- ❑ Left and right

2.5 Rear Bumper Cover, Removing and Installing

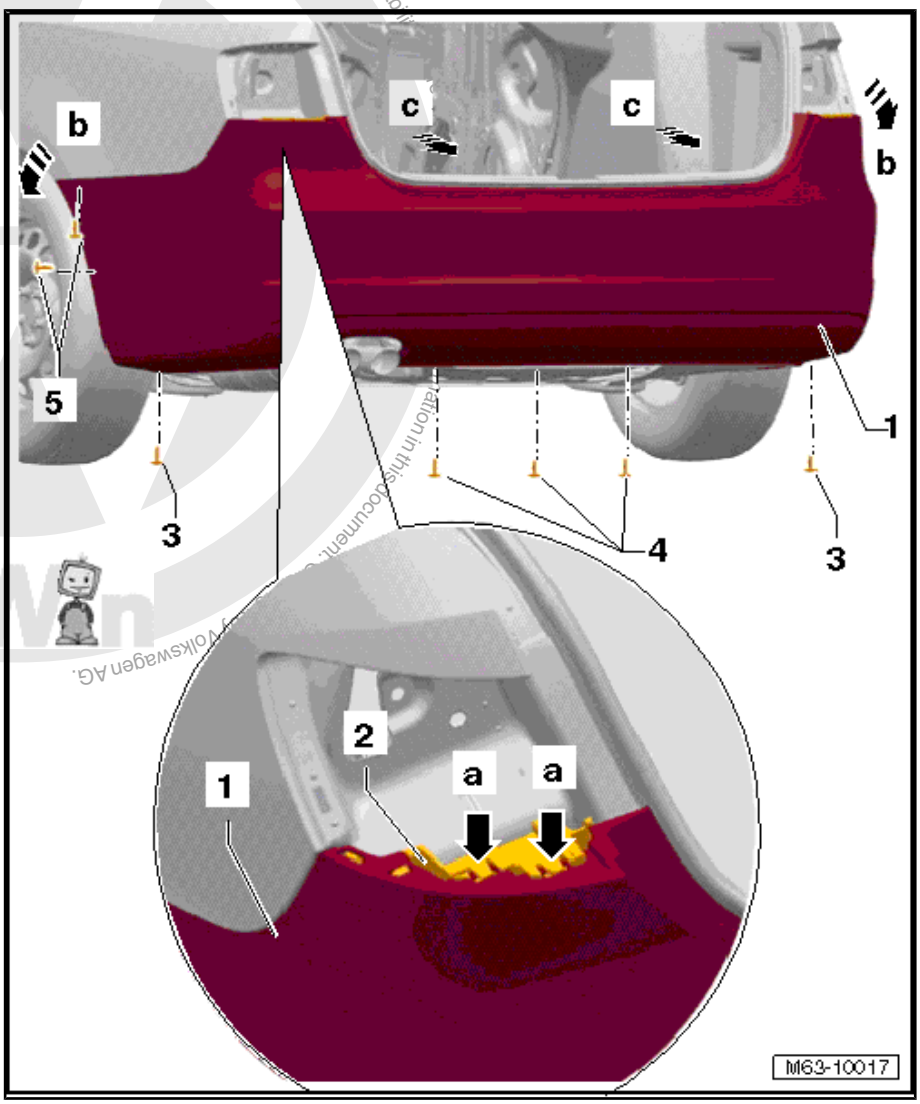
⇒ “2.5.1 Removing”, page 201

⇒ “2.5.2 Installing”, page 202

2.5.1 Removing

Note

Slight differences may have to be made to removal and installation procedures of rear bumper cover, depending upon equipment installed in vehicle.



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Perform the following:

– Remove the side panel tail lamps. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; Tail Lamps .

– Loosen the wheel housing liner from the retainer in the bumper cover area. Refer to ⇒ “1.5 Rear Wheel Housing Liner, Removing and Installing”, page 265 .

– Remove the bolts -5- inside the wheel housing on the left and right.

– Remove the lower bolts -3 and 4- from underneath.

– Remove the bolts that attach the right rear underbody trim panel to the bumper cover, if equipped.

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

– Remove the rear bumper cover -1- out of the guides on the left and right sides of the side panel -arrows b-.

– Open the catches -arrows a- on the left and right retaining brackets -2-.

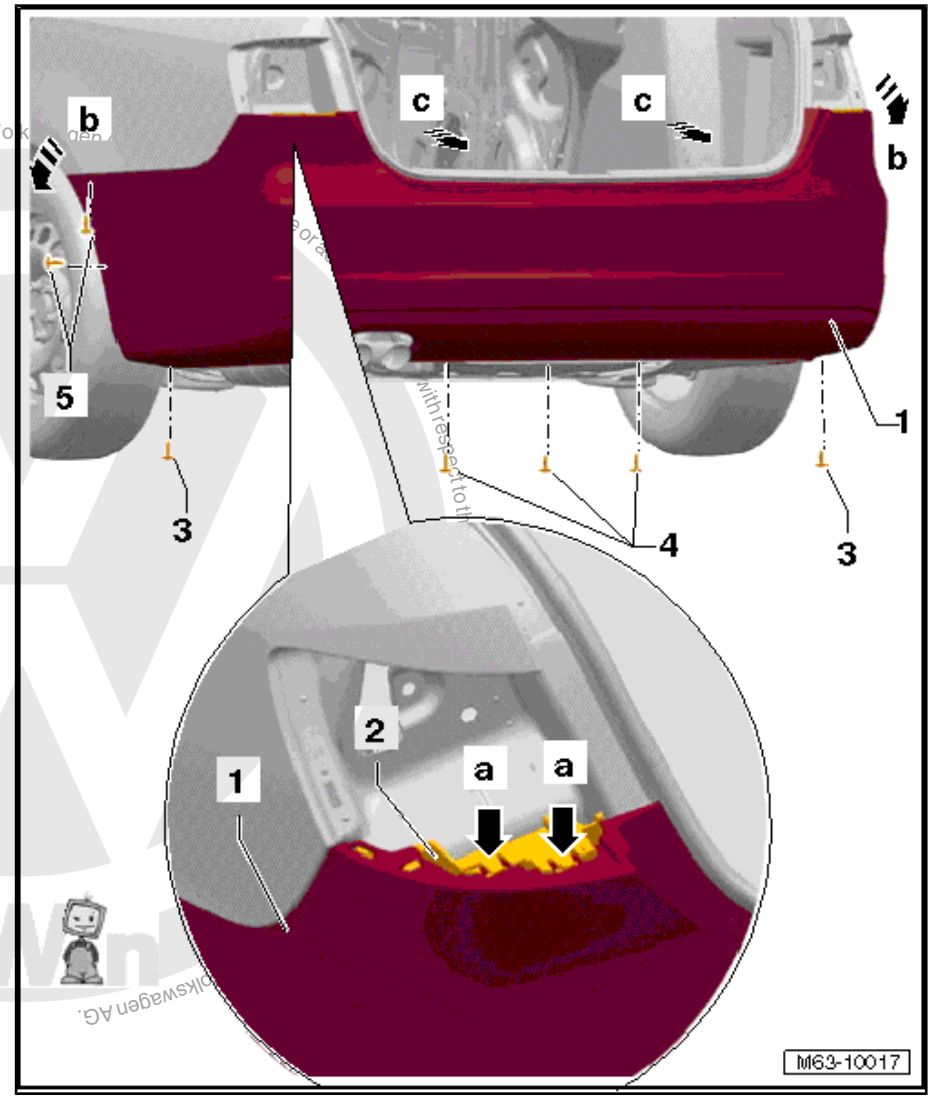
– Remove the rear bumper cover -1- -c arrows- from the vehicle. A second technician is needed for this.

– Disconnect the connectors from any electrical components.

Refer to ⇒ Electrical Equipment; Rep. Gr. 94 for more information regarding the parking aid.

2.5.2 Installing

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Perform the following:

- Connect the connectors of any components.
- Guide the rear bumper cover -1- parallel onto the guide on the vehicle until the rear bumper cover -1- engages at the left and right retaining brackets -2- -a arrows-.
- Install the rear bumper cover -1- into the left and right guides on the side panel until is locks.
- Pay attention to the parallel alignment and the gap dimensions. Refer to ⇒ Body Repair; Rep. Gr. 00 ; Body Gap Dimensions; Body, Rear .
- Tighten the bolts -3, 4 and 5-. Refer to ⇒ “2.4 Overview - Rear Bumper Cover”, page 200 .
- Install the bolts that attach the right rear underbody trim panel to the bumper cover and tighten them to 2.7 Nm, if equipped.
- Secure the wheel housing liner in the bumper cover area again. Refer to ⇒ “1.5 Rear Wheel Housing Liner, Removing and Installing”, page 265 .
- Install the side panel tail lamps. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; Tail Lamps .

2.6 Overview - Rear Bumper Cover Guides

1 - Center Guide

2 - Screw

- ❑ Tightening specification: 4 Nm.
- ❑ Quantity: 4

3 - Screw

- ❑ Tightening specification: 4 Nm.
- ❑ 2 or 3 on each side (depending on the model)

4 - Screw

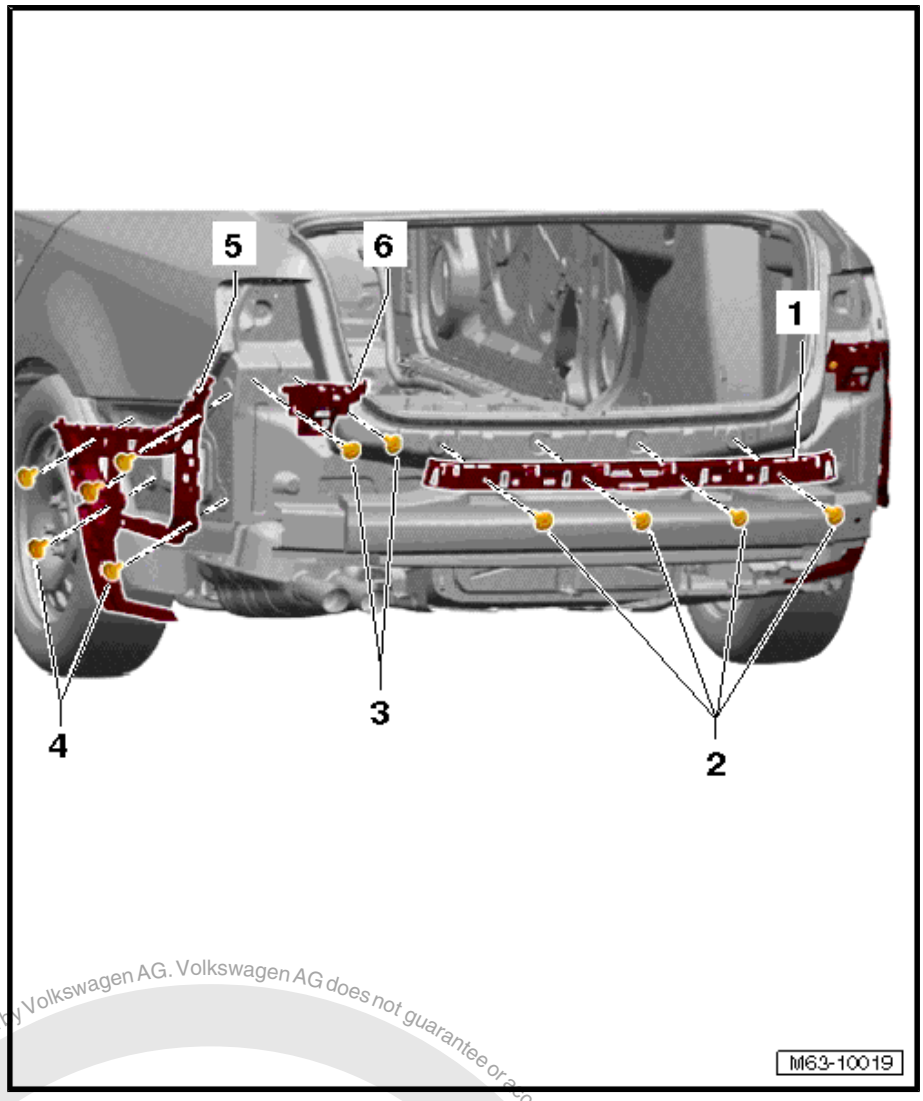
- ❑ Tightening specification: 4 Nm.
- ❑ Quantity: 5 on each side

5 - Side Guide

- ❑ Left and right

6 - Retaining Bracket

- ❑ Left and right



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2.7 Overview - Rear Bumper Carrier

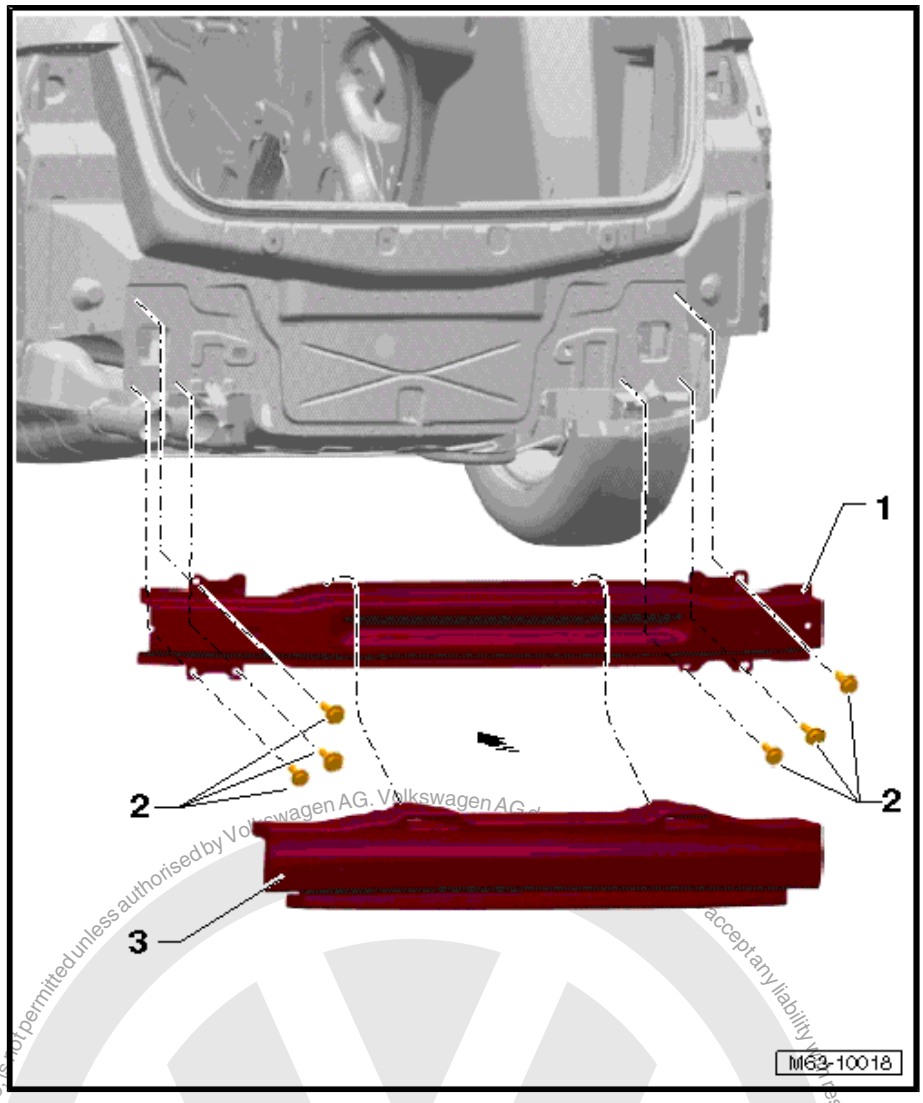
1 - Rear Bumper Carrier

2 - Bolt

- ❑ Tightening specification: 20 Nm
- ❑ Quantity: 3 on each side

3 - Foam Piece

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



2.8 Overview - Trailer Hitch

Note

- *The tightening specifications only apply to factory-installed trailer hitches.*
- *If a different trailer hitch is installed, ask the manufacturer for the tightening specifications.*
- *Refer to ⇒ Wiring diagrams, Troubleshooting & Component locations for more information on the Electrical System.*

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1 - Trailer Hitch

- ❑ With removable ball head
- ❑ Rear Bumper Cover, Removing. Refer to ⇒ “2.5 Rear Bumper Cover, Removing and Installing”, page 201 .

2 - Bolt

- ❑ Tightening specification: 12 Nm.
- ❑ Sealing threaded connections
- ❑ Quantity: 1 on the left
- ❑ 1 or 2 on the right side (depending on the model)

WARNING

The bolts -2- are sealing threaded connections and prevent exhaust gas from getting into the passenger compartment.

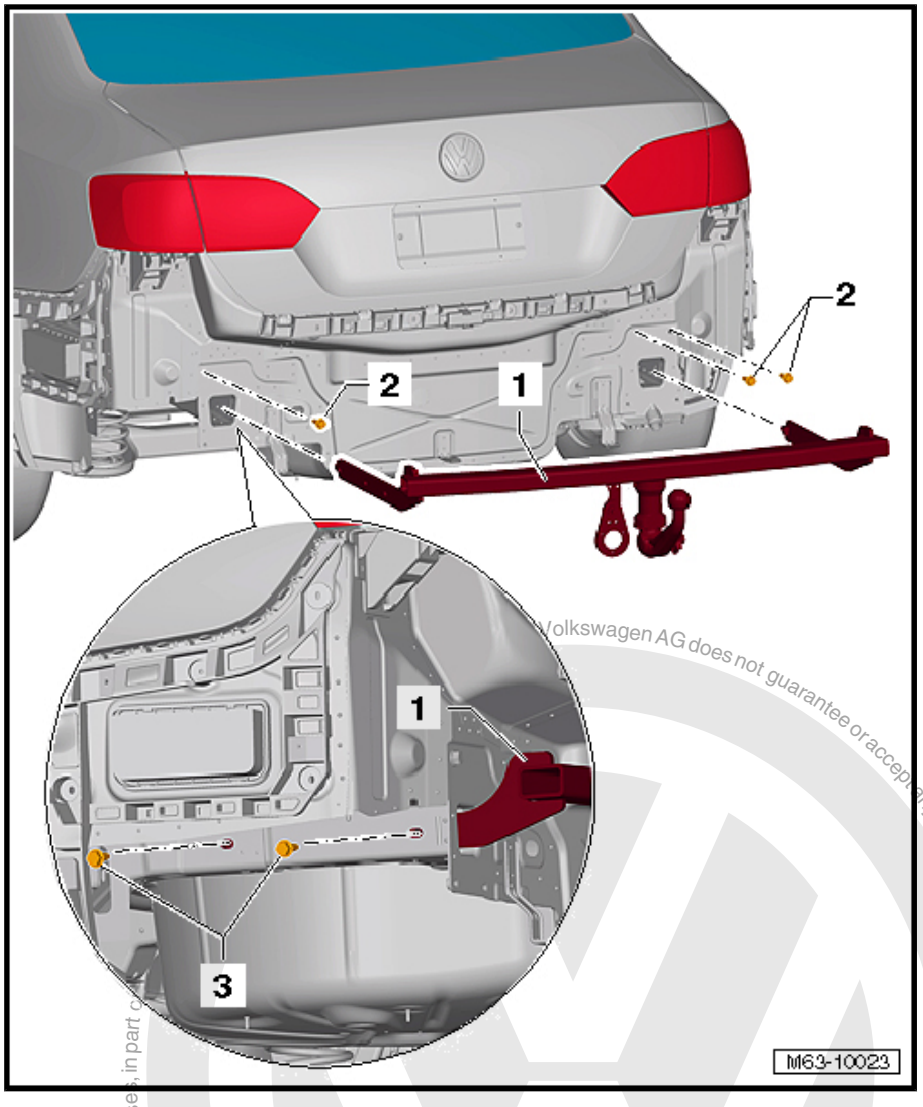
These bolts must always be installed.

3 - Bolt

- ❑ Tightening specification: 50 Nm + 90° additional turn
- ❑ Quantity: 2 on each side

WARNING

Bolts -3- must always be replaced after loosening.

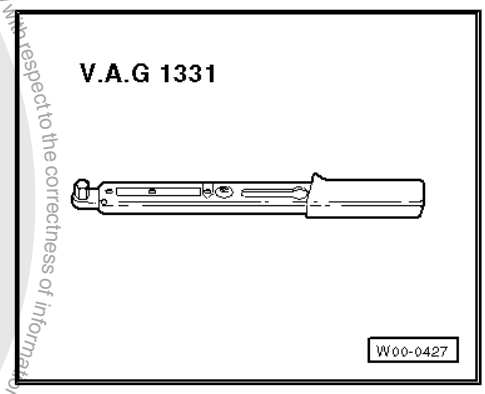


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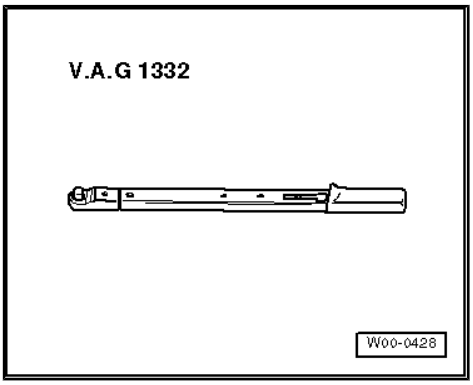
3 Special Tools

Special tools and workshop equipment required

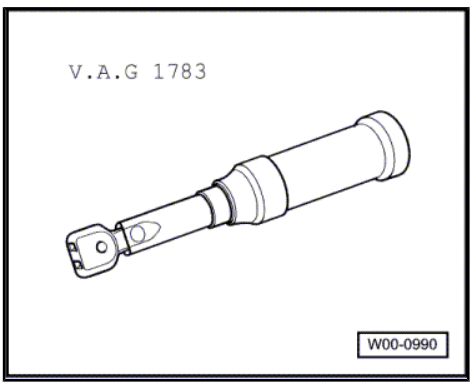
- Torque Wrench 1331 5-50Nm - VAG1331-



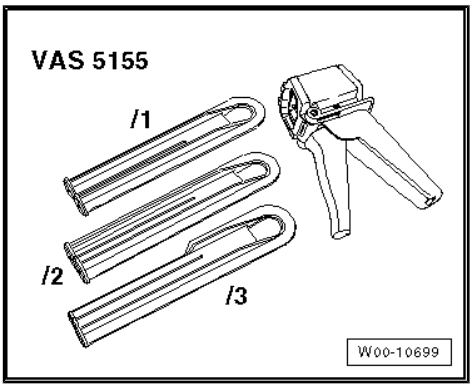
- Torque Wrench 1332 40-200Nm - VAG1332-



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

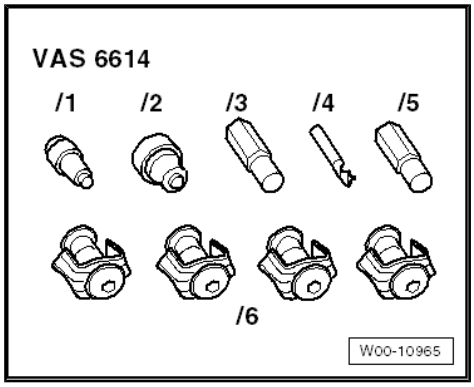


- Hand Cartridge Gun - VAS5155-



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- PDC Holder Tool Set - VAS6614B-



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64 – Glass, Window Regulators

1 Flush Bonded Windows

⇒ “1.1 Tools”, page 209
⇒ “1.2 Materials”, page 209
⇒ “1.3 Windshield, Servicing”, page 210
⇒ “1.4 Overview - Windshield”, page 210
⇒ “1.5 Windshield, Removing”, page 211
⇒ “1.6 Windshield, Installing”, page 213
⇒ “1.7 Overview - Rear Window”, page 213
⇒ “1.8 Undamaged Rear Window, Removing”, page 214
⇒ “1.9 Damaged Rear Window, Removing”, page 215
⇒ “1.10 Rear Window, Installing”, page 216
⇒ “1.11 Undamaged Window, Preparing for Glazing”, page 217
⇒ “1.12 New Window Without Pre-Coating, Preparing for Glazing”, page 217
⇒ “1.13 Body Flange, Preparing for Glazing”, page 218
⇒ “1.14 Installation Instructions”, page 219
⇒ “1.15 Minimum Curing Time”, page 219
⇒ “1.16 Paint Damage, Repairing”, page 219
⇒ “1.17 Adhesive Sealant, Removing from Window”, page 219

1.1 Tools

Special tools and workshop equipment required

- Cartridge Heater - VAG1939-
- Double Suction Lifter - VAG1344-
- Bonded Window Tool Kit - VAG1351-
- Flush Bonded Window Kit - VAG1474 B- or Cutting Tool for Bonded Windows - VAS6452-
- Window Cutter - VAG1561 A-
- Window Cutter - Offset Blade (2 pc.) - VAG1561/2-
- Window Cutter - Scraper - VAG1561/8-
- Window Cutter - Blade (2 pc.) - VAG1561/19-
- Cartridge Gun - VAG1628-
- Window Removing Kit - VAG1755-
- Gauge - Gap Adjustment - 3371-
- Double Cartridge Gun - VAS5237-

1.2 Materials

- Two-Part Window Adhesive -DA 004 600 A2- [1) 2) 3)]
- One-Part Window Adhesive -DH 009 100 A2 - [1) 2) 4) 5)]
- Activator -D 181 801 A1- [1)]

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- Glass Primer/Paint Primer -D 009 200 02- 1)
- Cleaning Solution -D 009 401 04 - 1)
- Primer Applicator -D 009 500 25- 1)
- Adhesive Remover -D 002 000 10- 1)
- Cutting wire -357 853 999 A-

1) Follow the manufacturer processing guidelines supplied in the packaging.

2) Note the minimum curing time
⇒ “1.15 Minimum Curing Time”, page 219 .

3) To apply this material, the Double Cartridge Gun - VAS5237- must be used.

4) Warm up according to manufacturer's instructions using the Cartridge Heater - VAG1939A- .

5) Small 180 ml cartridge for sealing and/or when a 400 ml double cartridge is not enough.

1.3 Windshield, Servicing

Note

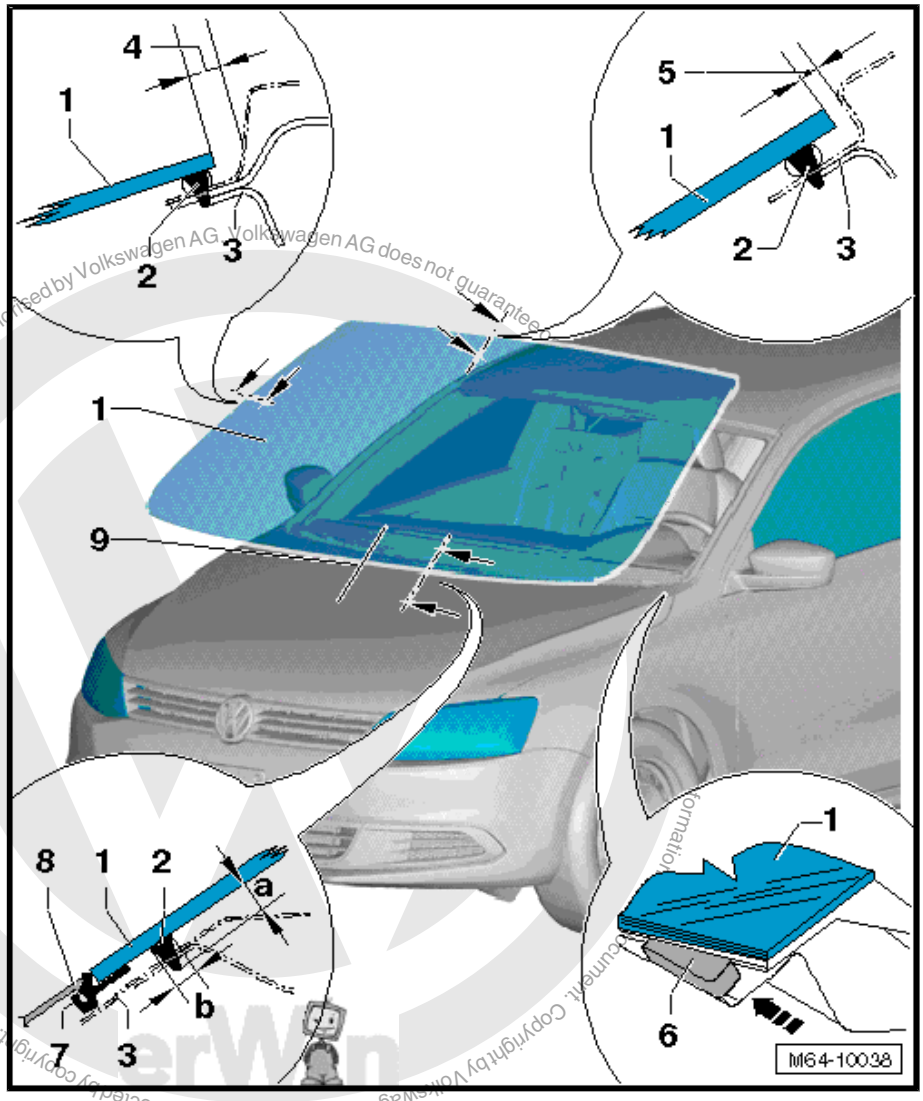
- *If the windshield is damaged, first determine if it is possible to repair the glass.*
- *Damaged windshields can be repaired with the Windscreen Repair Set - VAS6092- .*
- *The damage may not exceed a certain size and location.*
- *Work instructions are included with every window repair kit.*

Special tools and workshop equipment required

- Windscreen Repair Set - VAS6092-

1.4 Overview - Windshield

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1 - Windshield

- ❑ Removing. Refer to ⇒ “1.5 Windshield, Removing”, page 211 .
- ❑ Installing. Refer to ⇒ “1.6 Windshield, Installing”, page 213 .

2 - PUR Adhesive Sealant

- ❑ Bead diameter: -Width b- = 7.5 mm -Height a- Height = 12 mm (including the pre-coating, residual material on the window and the window flange)
- ❑ Minimum Curing Time. Refer to ⇒ “1.15 Minimum Curing Time”, page 219 .

3 - Body Flange

- ❑ Paint Damage, Repairing. Refer to ⇒ “1.16 Paint Damage, Repairing”, page 219 .

4 - Gap Dimension

- ❑ Must be the same on the left and right sides

5 - Gap Dimension

- ❑ Must be even

6 - Window Adjuster

- ❑ -443 845 631 A-

7 - Binding Profile

- ❑ Is a part of the windshield

8 - Plenum Chamber Cover

- ❑ May only be pulled out of the retainer by hand.
- ❑ Removing and installing. Refer to ⇒ “3.2 Plenum Chamber Cover, Removing and Installing”, page 19 .

9 - Adhesive Bead End

- ❑ Apply the adhesive bead in this area

1.5 Windshield, Removing

Perform the following:

– Remove left and right upper A-pillar trim. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels .

– Remove the left and right sun visors. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Equipment; Sun Visor, Removing and Installing .

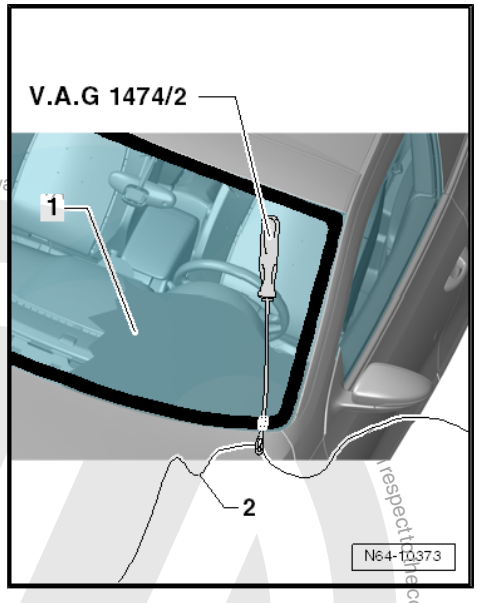
– Remove the interior rearview mirror. Refer to ⇒ Body Interior; Rep. Gr. 68 ; Interior Rearview Mirror .

– Remove the headliner near the windshield. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Roof Trim Panels .

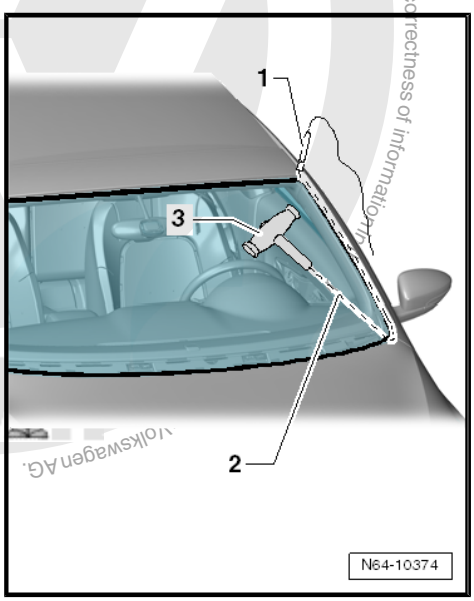
– The headliner can now be lowered far enough so that windshield can be cut out without damaging headliner.

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– If equipped, remove the drip rail. Refer to ⇒ “5.1 Drip Rail”, page 303 .
– Remove the plenum chamber cover. Refer to ⇒ “3.2 Plenum Chamber Cover, Removing and Installing”, page 19 .
– Install the Cover for Audi A4 Dash Panel - VAG1474/8- -1- between the windshield and the instrument panel.
– Pull the cutting wire -2- with the Flush Bonded Window Kit - Awl - VAG1474/2- through the adhesive inside the vehicle interior.



– Secure the cutting wire end from being pulled out using the Bonded Window Tool Kit - Pull Handle - VAG1351/1- -3-.
– Insert the cutting cord -2- into window flange using small tube -1-.
– Lay the cutting cord around windshield.
– Make sure that cutting thread is inserted under windshield at corners.



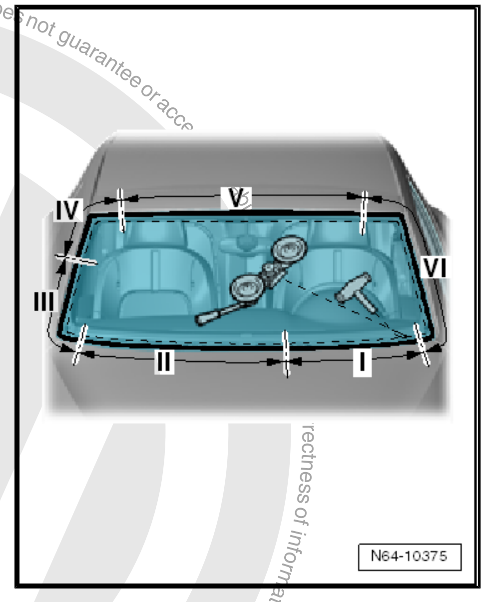
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– Secure the second cord end to Window Reel Device - VAG1654 A- .

– Set Window Reel Device - VAG1654 A- into “Position I”.

– Move Window Reel Device - VAG1654 A- according to position required and cut the windshield free.

– While cutting free, press cutting cord against window using plastic wedge in order to have clearance from window flange and instrument cluster.



1.6 Windshield, Installing

Prepare the undamaged window for glazing. Refer to ⇒ “1.11 Undamaged Window, Preparing for Glazing”, page 217 .

Prepare the new window glass for glazing. Refer to ⇒ “1.12 New Window Without Pre-Coating, Preparing for Glazing”, page 217 .

Prepare the body flange for glazing. Refer to ⇒ “1.13 Body Flange, Preparing for Glazing”, page 218 .

Installation Instructions. Refer to ⇒ “1.14 Installation Instructions”, page 219 .

Minimum Curing Time. Refer to ⇒ “1.15 Minimum Curing Time”, page 219 .

1.7 Overview - Rear Window

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1 - Rear Window

- ❑ Removing. Refer to ⇒ “1.8 Undamaged Rear Window, Removing”, page 214 .
- ❑ Installing. Refer to ⇒ “1.10 Rear Window, Installing”, page 216 .

2 - PUR Adhesive Sealant

- ❑ Bead diameter: -Width b- = 6.5 mm -Height a- Height = 10 mm (including the pre-coating, residual material on the window and the window flange)
- ❑ Minimum Curing Time. Refer to ⇒ “1.15 Minimum Curing Time”, page 219 .

3 - Body Flange

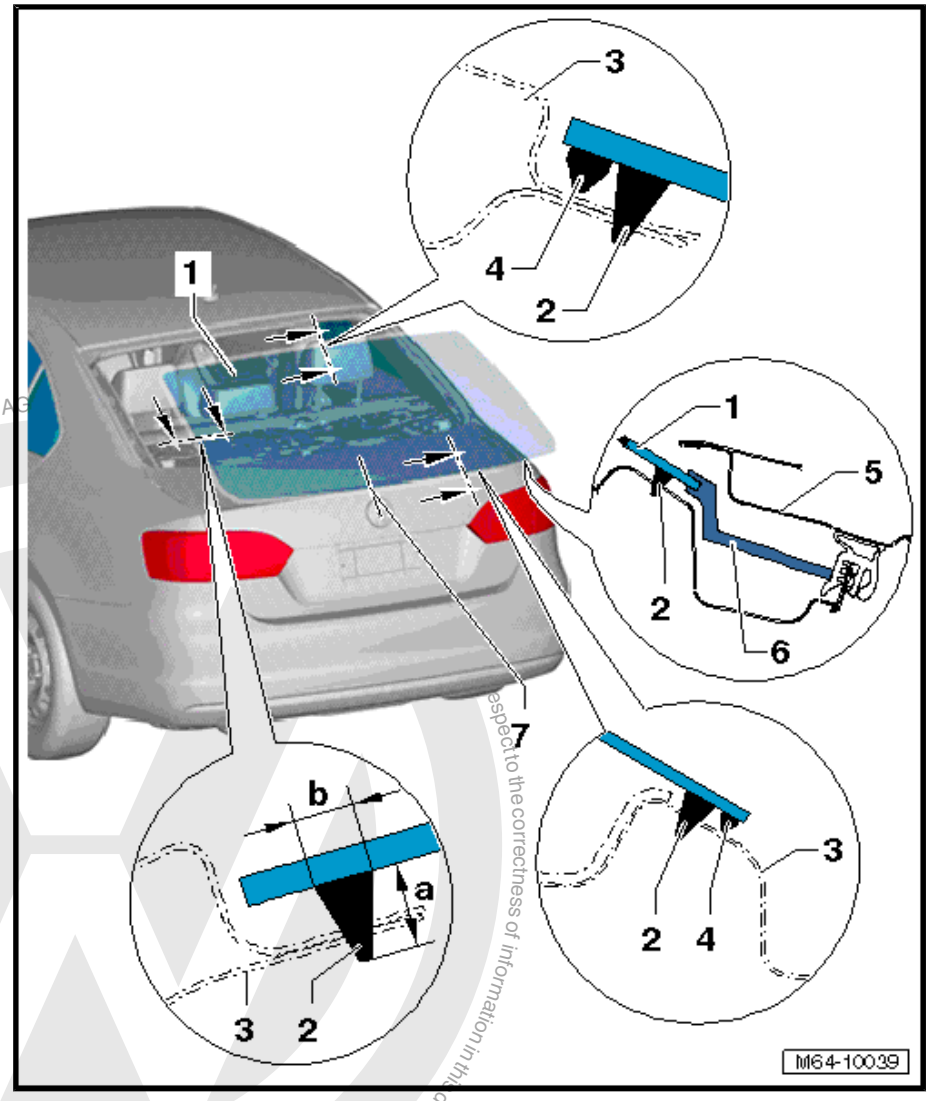
4 - Spacer

5 - Rear Lid

6 - Window Adjuster

7 - Adhesive Bead End

- ❑ Apply the adhesive bead in this area



1.8 Undamaged Rear Window, Removing

Perform the following:

– Remove left and right upper C-pillar trim. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels .

– Remove the rear shelf. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Vehicle Interior Trim Panels; Rear Shelf, Removing and Installing .

– Remove the headliner near the rear window. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Roof Trim Panels .

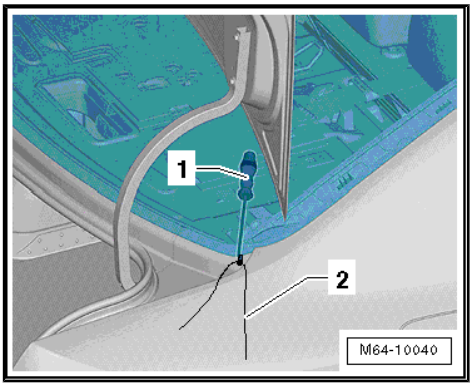
Note

If windshield is to be used again, make sure that electrical connections for windshield heating are not damaged.

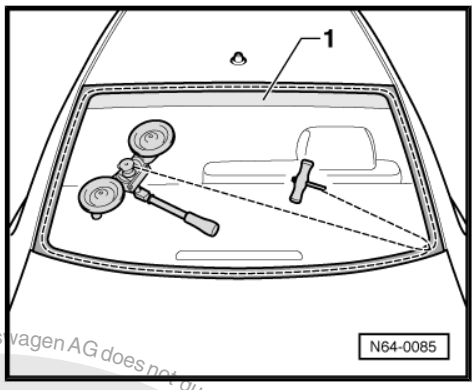
– Disconnect the connections for the heated rear window and window antennas.

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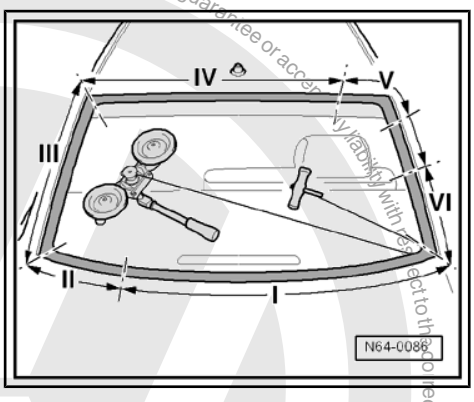
– Pull the cutting wire -2- inside through the adhesive using with the Flush Bonded Window Kit - Awl - VAG1474/2- -1-.



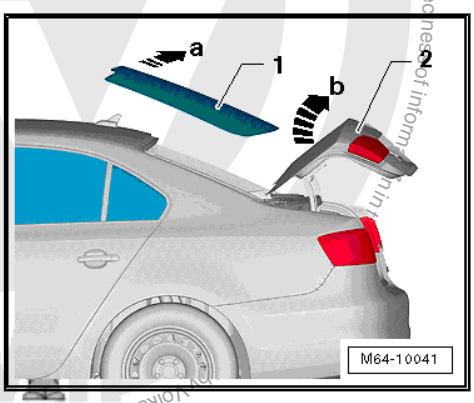
– Secure the cutting wire end with the Bonded Window Tool Kit - Pull Handle - VAG1351/1- to prevent it from being pulled out.
– Lay the cutting wire around the rear window and guide the second wire end toward the inside.
– Secure the end of the cutting wire on the Window Reel Device - VAG1654 A- .
– Install the Flush Bonded Window Kit - Cover for Audi 80/92> Dash Panel - VAG1474/8- -1- carefully between the rear window and headliner.



– 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.
– While cutting free, press cutting cord against window using plastic Flush Bonded Window Kit - Wedge (5 pc.) - VAG1474/5- in order to have clearance from window flange.



– To remove the rear window -1- open the rear lid -2- approximately 45°.
– Remove the rear window -1- from the body flange in direction of -arrow a- and move it under the rear lid in direction of -arrow b-.



1.9 Damaged Rear Window, Removing

Perform the following:

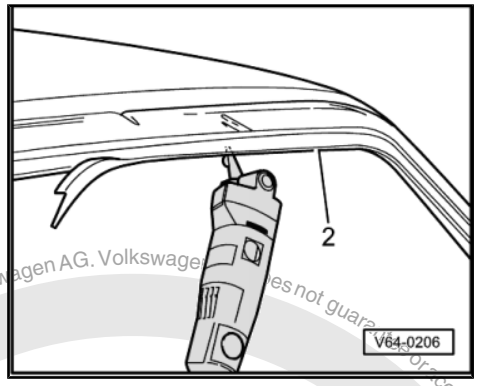
– Protect the body and vehicle interior from glass splinters.
– Remove the glass pieces up to the adhesive sealant.
– Remove the connections for the window defogger and antenna.

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– Bond the flange -2- all around with fabric reinforced adhesive tape.
– Cut the adhesive (with glass residue) in the window opening with the Window Cutter - VAG1561A- and the Window Cutter - VAG1561- .

WARNING

Always wear protective eyewear and leather gloves.



1.10 Rear Window, Installing

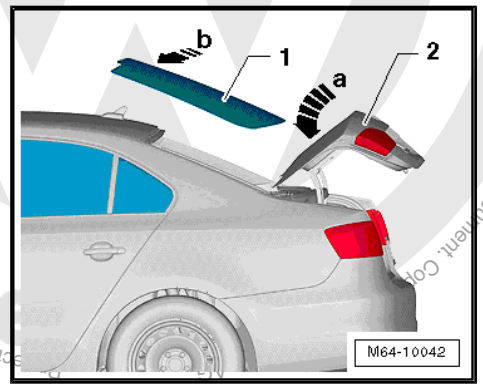
Perform the following:

Prepare the undamaged window for glazing. Refer to ⇒ “1.11 Undamaged Window, Preparing for Glazing”, page 217 .

Prepare the new window glass for glazing. Refer to ⇒ “1.12 New Window Without Pre-Coating, Preparing for Glazing”, page 217 .

Prepare the body flange for glazing. Refer to ⇒ “1.13 Body Flange, Preparing for Glazing”, page 218 .

– Once all the preparation work for glazing the rear window -1- is complete, open the rear lid -2- approximately 45°.
– First guide the rear window -1- under the rear lid -2- in direction of -arrow a-.
– Then place the rear window -1- on the body flange in its installed position in direction of -arrow b-.



Installation Instructions. Refer to ⇒ “1.14 Installation Instructions”, page 219 .

Minimum Curing Time. Refer to ⇒ “1.15 Minimum Curing Time”, page 219 .

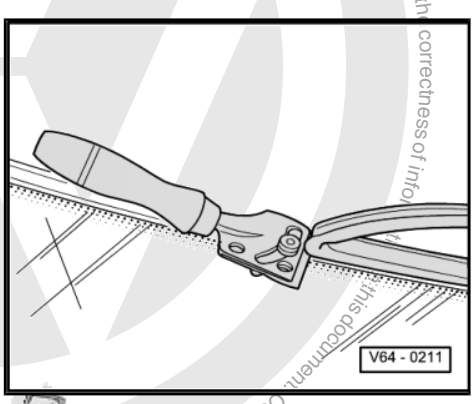
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1.11 Undamaged Window, Preparing for Glazing

⇒ "1.11.1 Adhesive Bead, Cutting", page 217

1.11.1 Adhesive Bead, Cutting

Perform the following:



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 while doing so.*
- *The remaining material serves as a base for the new adhesive sealant being applied.*

WARNING

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

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

1.12 New Window Without Pre-Coating, Preparing for Glazing

Perform the following:

All windows as replacement parts are not pre-coated.

Note

- *The application area for the adhesive bead is not pre-coated and not primed.*
- *The sealing lip is a component of a new windshield.*

– Clean an area 20 mm wide all around the window edge using the Cleaning Solution - D 009 401 04- .

– Then dry the window edge with a lint-free cloth.

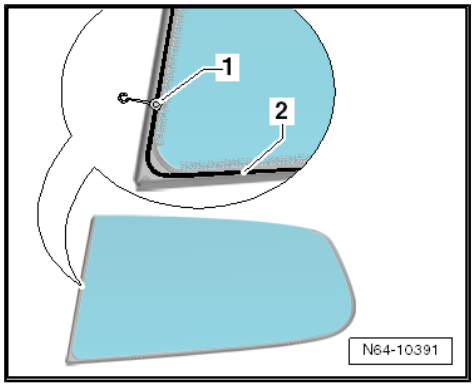
WARNING

The ceramic coating on the glass is not a glass/paint primer. It must be primed before the application of adhesive sealant! Use only glass/paint primer D 009 200 02.

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– Apply primer -2- uniformly in one stroke using Applicator - D 009 500 25- -1-.

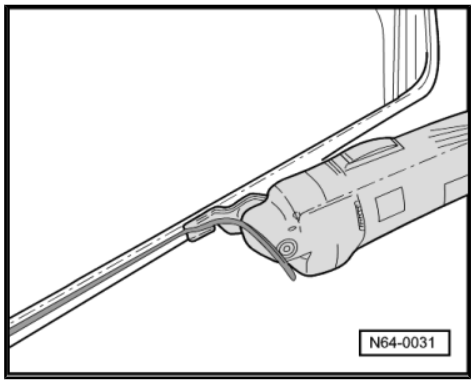
♦ Drying time is approximately 10 minutes



1.13 Body Flange, Preparing for Glazing

Perform the following:

– Cut back the remaining material on the body flange using the 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 the adhesive surfaces free of dirt and grease.

WARNING

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

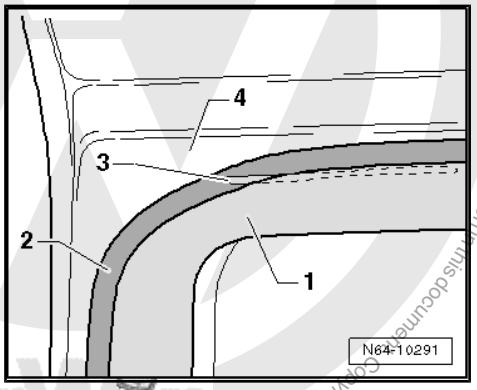
Exception: if bonding is not performed immediately after cutting back, the remaining material must be activated using the Activator - D 181 801 A1- .

♦ If the body flange is being repaired or partially replaced, the corresponding area must be cleaned 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-. Then fill the laser weld seam with the Window Adhesive - DH 009 100 A2- -1-.



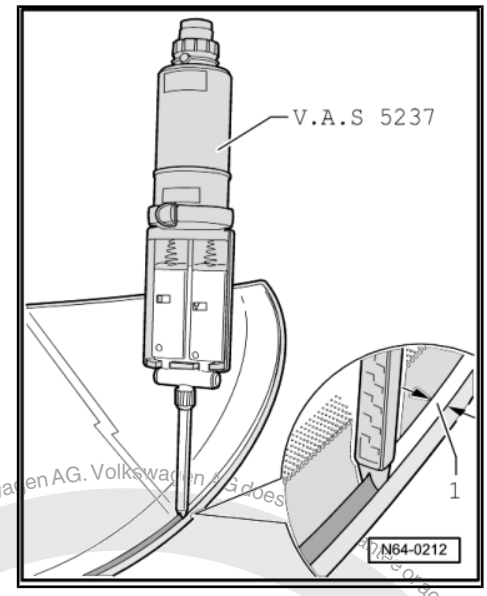
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1.14 Installation Instructions

Perform the following:

– Apply adhesive all the way around at a right angle to the glass.

> **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 the gap area.***



- Using two Double Suction Lifters - VAG1344- , insert the window glass into the window opening, center it and press it in up to the spacer.
- Reapply any stickers (for example, for airbag).

1.15 Minimum Curing Time

> **WARNING**
>
> ***There are special requirements for replacing bonded windows. This includes, for example, that a newly bonded windshield is safe for vehicle operation and also in case of an accident after a specified minimum curing time.***

The minimum curing time for the two-part window adhesive DA 004 600 A2 and one-part window adhesive DH 009 100 A2 is 3 hours for all windows.

Minimum 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.***

1.16 Paint Damage, Repairing

If there is paint damage, recreate the paint structure according to guidelines in the ⇒ Paint; Rep. Gr. 00

1.17 Adhesive Sealant, Removing from Window

Perform the following:

– Adhesive Remover - D 002 000 10- is the recommended cleaning solution. The safety precautions must be adhered to when working.

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WARNING

When cleaning from the vehicle interior, the window just installed must never be pressed outward.

– Clean the painted surface with a dry cloth. Clean any remaining dirt with Adhesive Removal Solution - D 002 000 10- .
– Clean the plastic trim: let the adhesive harden for approximately one hour and then peel it off.

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2 Front Door Window

⇒ “2.1 Tools”, page 221

⇒ “2.2 Overview - Front Door Window”, page 221

⇒ “2.3 Door Window, Removing and Installing”, page 222

⇒ “2.4 Window Regulator Motor, Removing and Installing”, page 228

⇒ “2.5 Window Regulator, Removing and Installing”, page 234

⇒ “2.6 Window Guide, Removing and Installing”, page 236

2.1 Tools

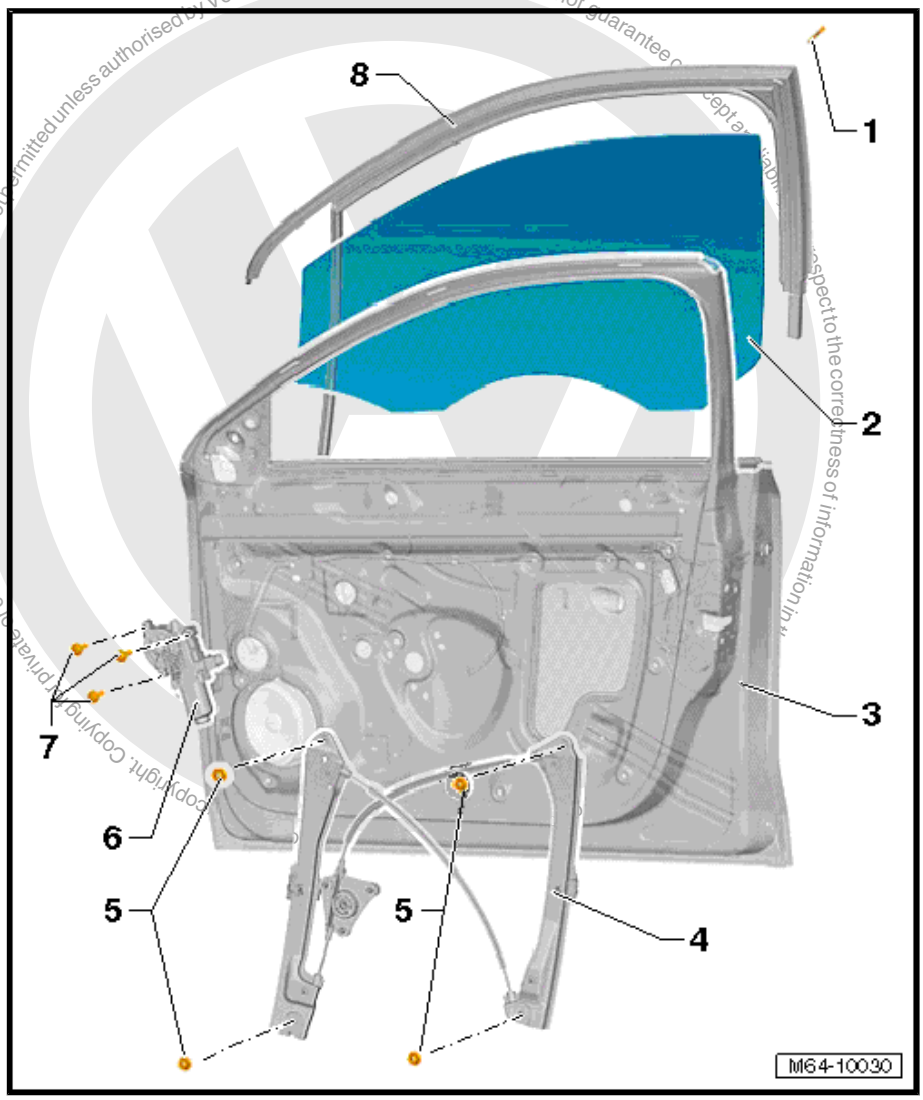
Special tools and workshop equipment required

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

2.2 Overview - Front Door Window

Note

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



1 - Clip

2 - Door Window

- ❑ Removing and installing. Refer to ⇒ “2.3 Door Window, Removing and Installing”, page 222 .

3 - Front Door

4 - Window Regulator

- ❑ Removing and installing. Refer to ⇒ “2.5 Window Regulator, Removing and Installing”, page 234 .

5 - Nut

- ❑ Tightening specification: 8 Nm
- ❑ Quantity: 4

6 - Window Regulator Motor

- ❑ Removing and Installing, High Equipment (AW1). Refer to ⇒ “2.4.1 Window Regulator Motor, Removing and Installing, High Equipment AW1”, page 228 .
- ❑ Removing and Installing, Low Equipment (AW0). Refer to ⇒ “2.4.2 Window Regulator Motor, Removing and Installing, Low Equipment AW0”,

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page 231 .

7 - Screw

- ❑ High equipment (AW1): 3 Nm
- ❑ Low equipment (AW0): 4 Nm, note the tightening sequence. Refer to ⇒ “2.4.2 Window Regulator Motor, Removing and Installing, Low Equipment AW0”, page 231 .

8 - Window Guide

- ❑ Removing and installing. Refer to ⇒ “2.6 Window Guide, Removing and Installing”, page 236 .

2.3 Door Window, Removing and Installing

⇒ “2.3.1 Removing”, page 222

⇒ “2.3.2 Installing”, page 225

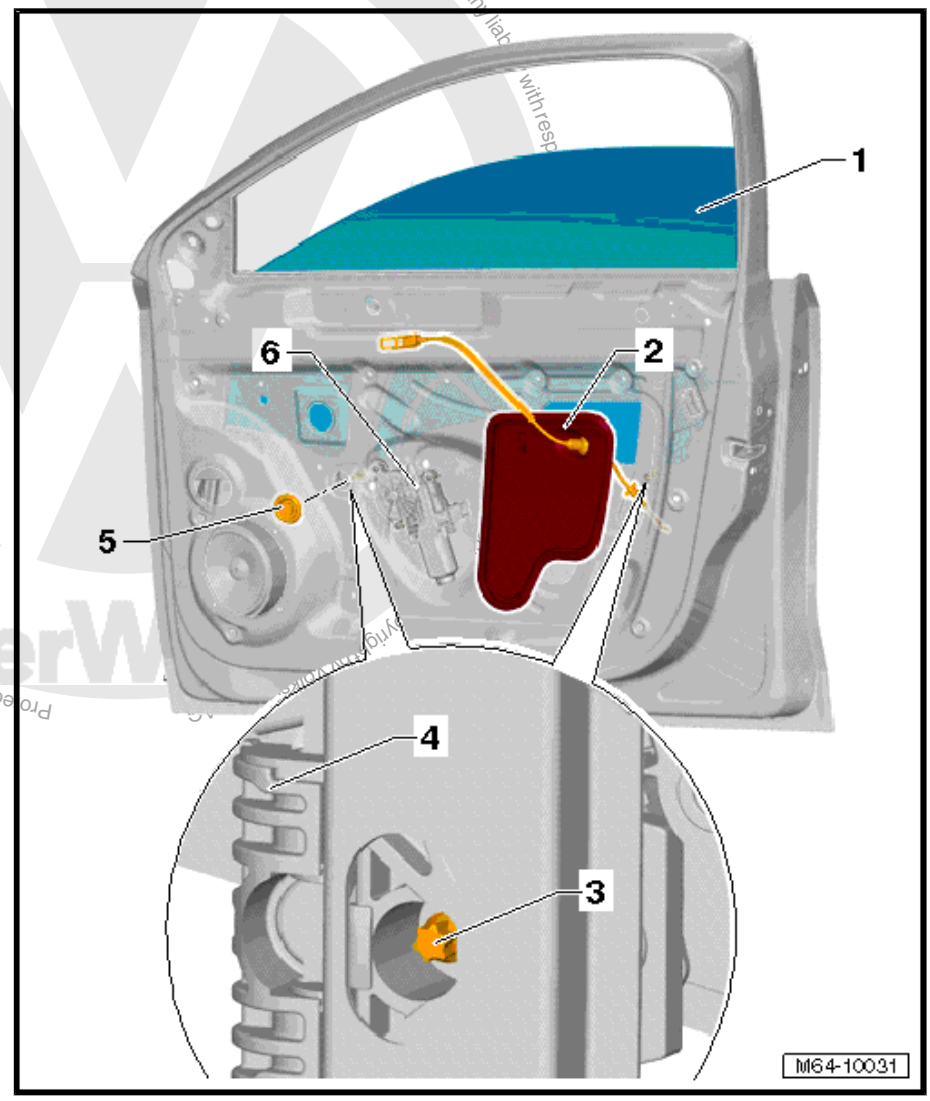
2.3.1 Removing

Note

The following describes the removal and installation of the right door window. Removing and installing the left door window is identical.

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Perform the following:

– Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

– Remove the cover -2-. Refer to ⇒ “2.3 Door Cover, Removing and Installing”, page 90 .

– Pry out the cap -5-.

– Lower the door window -1- until the clamping screws -3- in the door window are accessible.

Note

♦ *If it is not possible to do this because of a window regulator motor -6- malfunction, then remove the motor. Refer to ⇒ “2.4 Window Regulator Motor, Removing and Installing”, page 228 .*

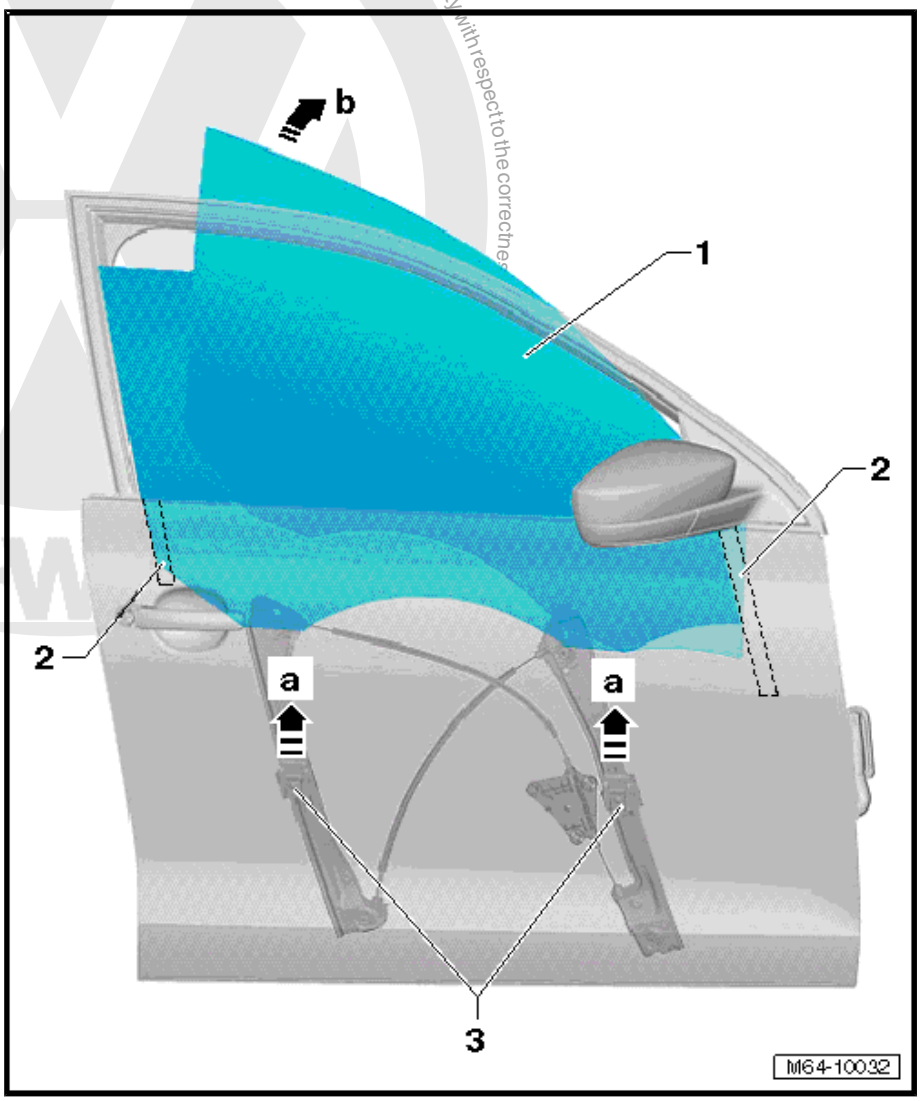
♦ *Then the door window can be moved to the necessary position.*

Caution

Loosen the clamping screw -3- by turning it to the right.

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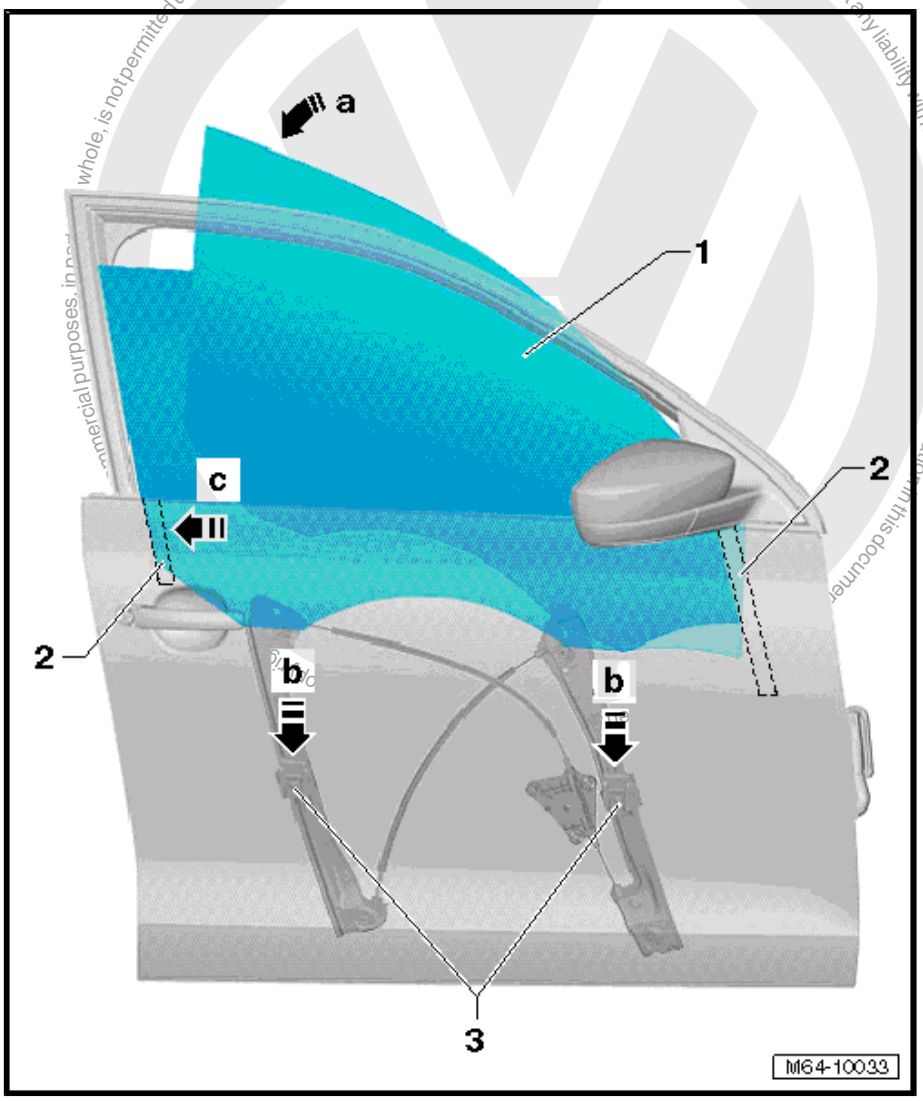
– Turn the clamping screw -3- to the right to loosen it (do not remove it) and separate the clamping brackets -4-.



– Remove the door window -1- upward out of the clamping brackets -3- in direction of -a arrows-.

– Lift the rear door window -1- and remove it in from the window guides -2- in direction of -arrow b-.

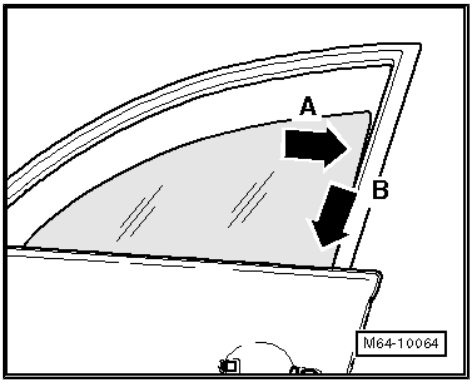
2.3.2 Installing



Perform the following:

– Install the door window -1- into the window guides -2- in direction of -arrow a-.

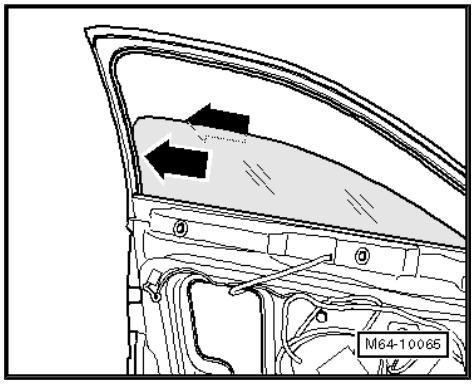
– Insert the door window into the B-pillar window guide -arrow A- and then push it all the way into the clamping bracket -arrow B-.



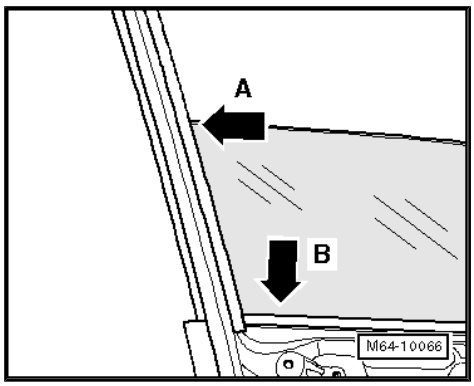
Note

Make sure the door window is inserted correctly in the window guide -arrow A-.

– Push the door window on the B-pillar with both hands and all the way into the window guide -arrows-.



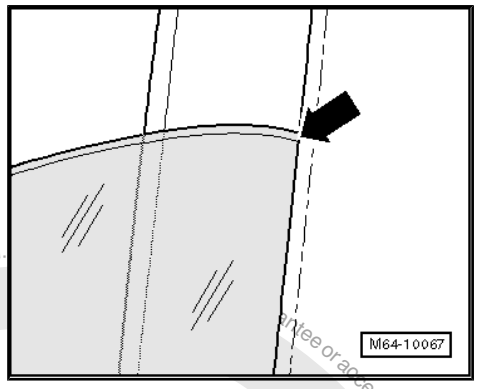
– Push the door window down with both hands -arrow B-.



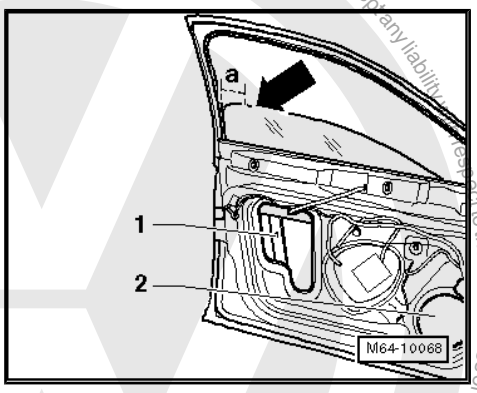
Note

Always push the door window into the B-pillar window guide -arrow A- at the same time.

– Make sure the door window fits securely in the B-pillar window guide -arrow-.



– Turn the clamping screw -1- (rear clamping screw) to the left to tighten it; tightening specification 8 Nm.



Note

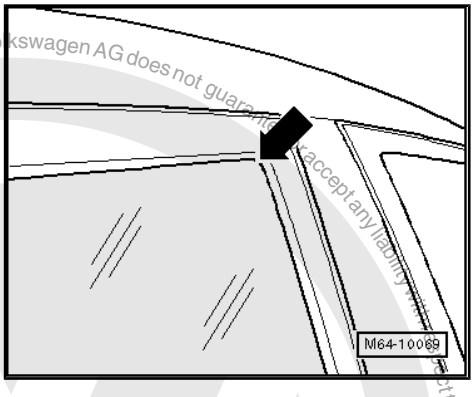
- *Push the door window down -arrow- continually while tightening the screw.*
- *Distance -a- = press down 12 cm to the B-pillar*

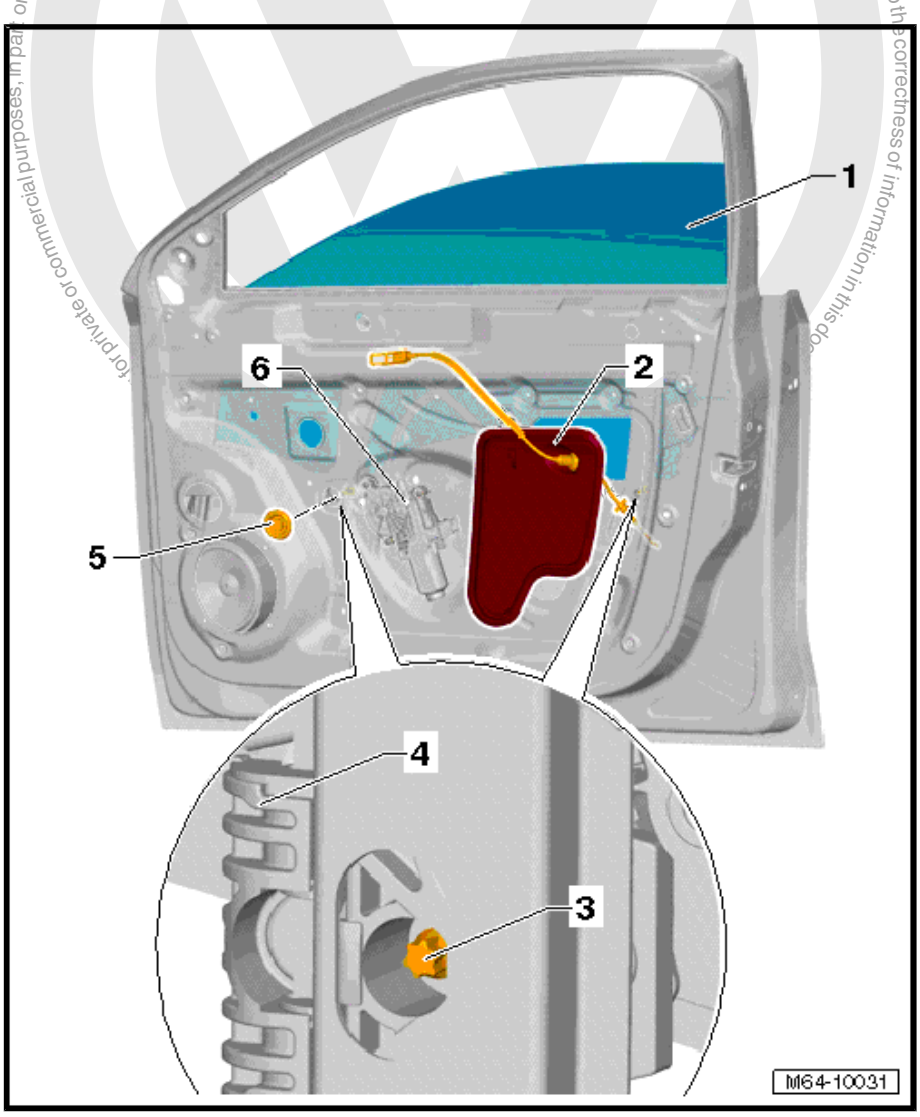
– Turn the clamping screw -2- (front clamping screw) to the left to tighten it; tightening specification 8 Nm.

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Note

The door window will fit correctly inside the window guide -arrow- if the procedure is performed correctly.





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2.4 Window Regulator Motor, Removing and Installing

⇒ “2.4.1 Window Regulator Motor, Removing and Installing, High Equipment AW1”, page 228

⇒ “2.4.2 Window Regulator Motor, Removing and Installing, Low Equipment AW0”, page 231

2.4.1 Window Regulator Motor, Removing and Installing, High Equipment AW1

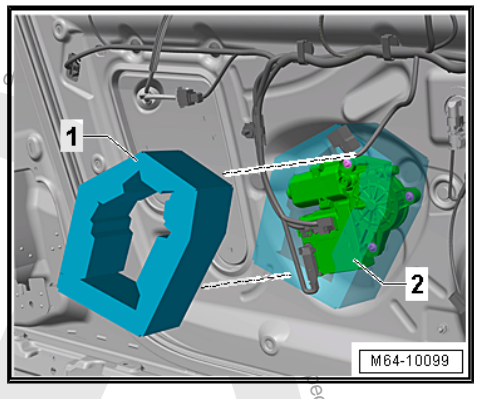
Note

The following describes the removal and installation of the left window regulator motor. Removing and installing the right window regulator motor is identical.

Removing

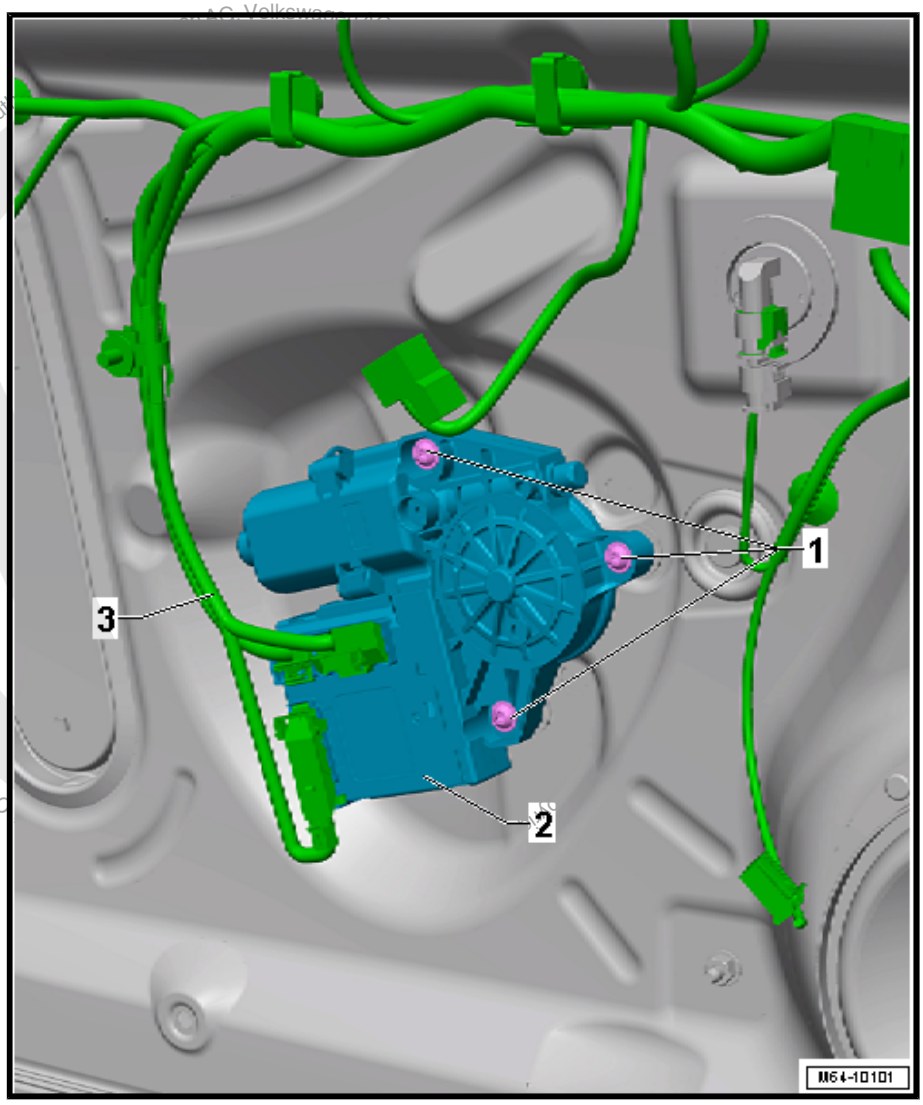
– Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

– Remove the foam piece -1- from the window regulator motor -2-, if equipped.



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– Secure the door window with adhesive tape to prevent it from falling down.

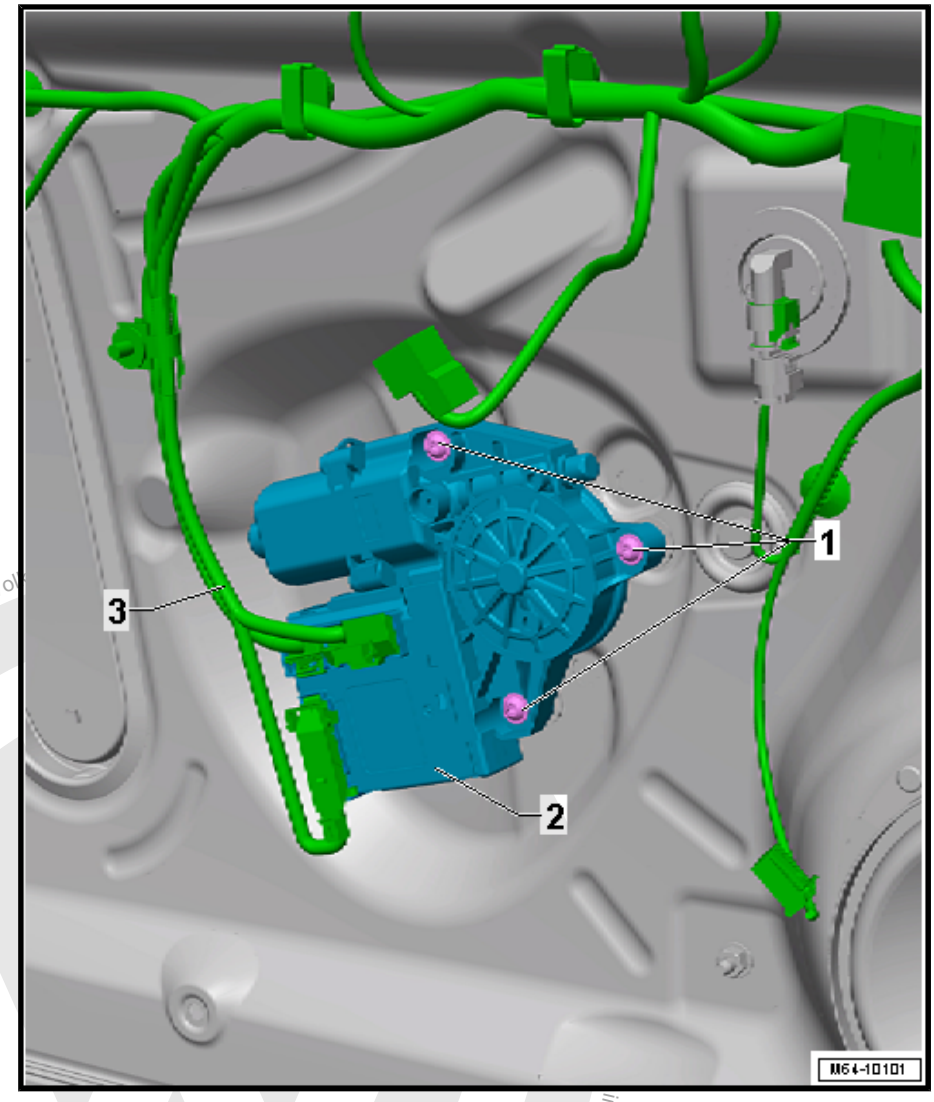
Caution

– Disconnect the connector on the wiring harness -3-.
– Remove three bolts -1-.
– Remove the window regulator motor and control module -2- from the mounts on the cable reel.

Installing

WARNING

The additional functions and pinch protection must be coded when a new window regulator motor (door control module) is installed.



Install in reverse order of removal. Note the following:

– Install the window regulator motor -2- 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.
– Tighten the bolts -1-.
– Connect the connector on the wiring harness -3-.

WARNING

Before installing the door trim panel, check that any holes in the door panel are sealed with the corresponding adhesive. Refer to ⇒ "2.17 Overview - Insulation", page 121 .

– Code the new window regulator motor using the Vehicle Diagnostic Tester .
– The procedure and information regarding the one-touch up/down function as well as the pinch protection can be found here ⇒ Maintenance ; Booklet 20.1 .

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Tightening Specifications

2.4.2 Window Regulator Motor, Removing and Installing, Low Equipment AW0

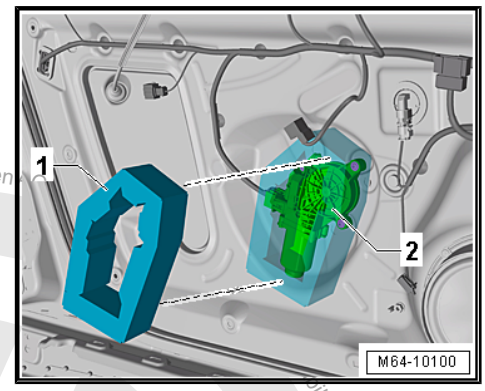
Note

The following describes the removal and installation of the left window regulator motor. Removing and installing the right window regulator motor is identical.

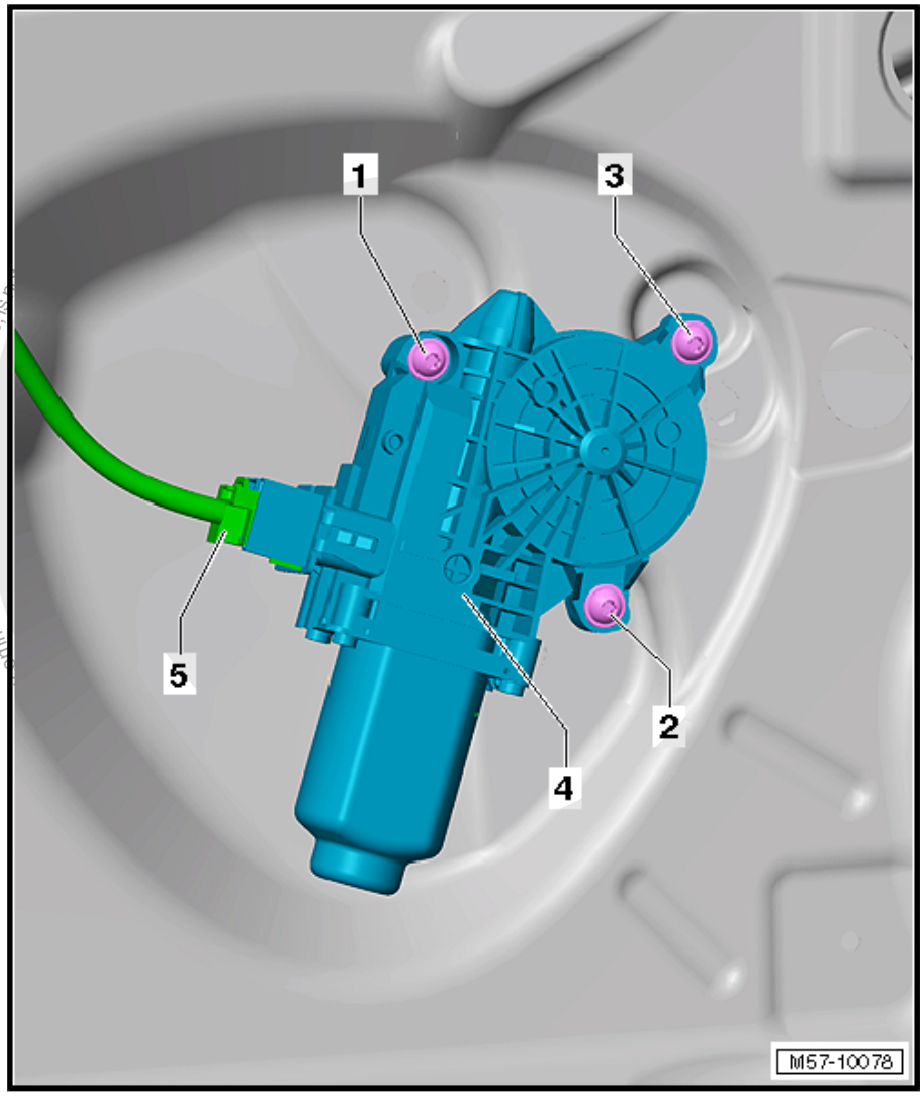
Removing

– Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

– Remove the foam piece -1- from the window regulator motor -2-, if equipped.



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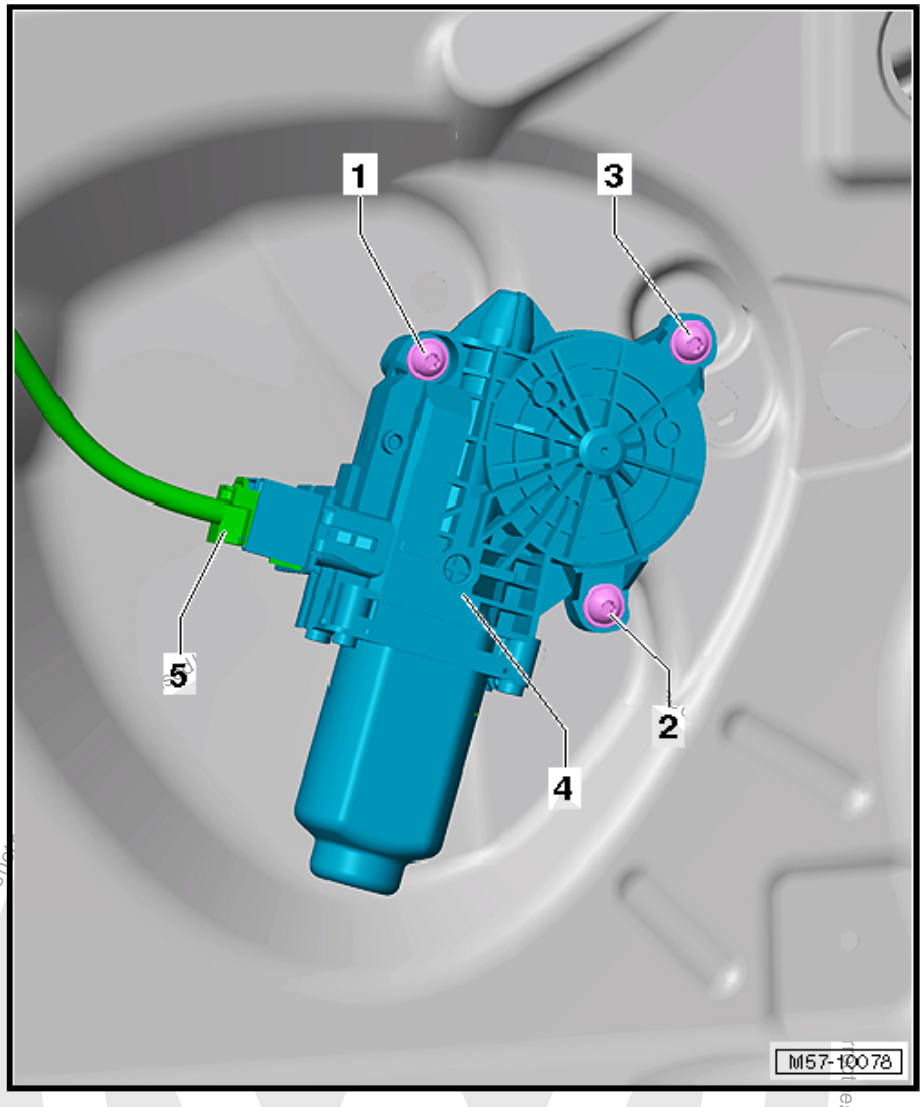
commercial purposes, in part or in whole, is

– Secure the door window with adhesive tape to prevent it from falling down.
– Switch off the ignition and all electrical equipment.
– Remove the ignition key.
– Disconnect the connector -5-.
– Remove the bolts -1 through 3-.
– Remove the window regulator motor -4- from the mounts of the cable reel.

Installing

WARNING

The additional functions and pinch protection must be coded when a new window regulator motor (door control module) is installed.



Install in reverse order of removal. Note the following:

- Install the window regulator motor -4- on the mounts of 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.
- Attach the connector -5-.
- Tighten the bolts in a -1 through 3- sequence.

WARNING

Before installing the door trim panel, check that any holes in the door panel are sealed with the corresponding adhesive. Refer to ⇒ "2.17 Overview - Insulation", page 121 .

- Code the new window regulator motor using the Vehicle Diagnostic Tester .
- The procedure and information regarding the one-touch up/down function as well as the pinch protection can be found here ⇒ Maintenance ; Booklet 20.1 .

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Tightening Specifications

2.5 Window Regulator, Removing and Installing

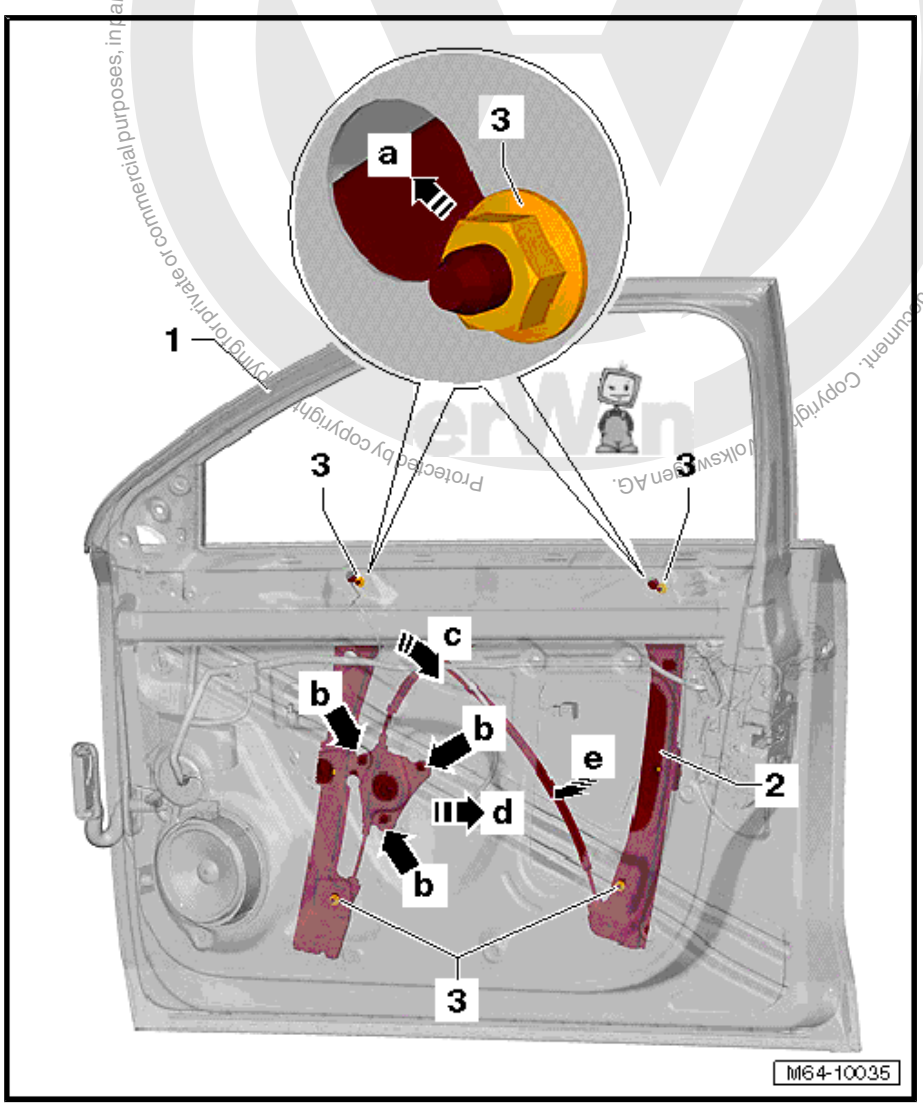
⇒ “2.5.1 Removing”, page 234

⇒ “2.5.2 Installing”, page 235

2.5.1 Removing

Note

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



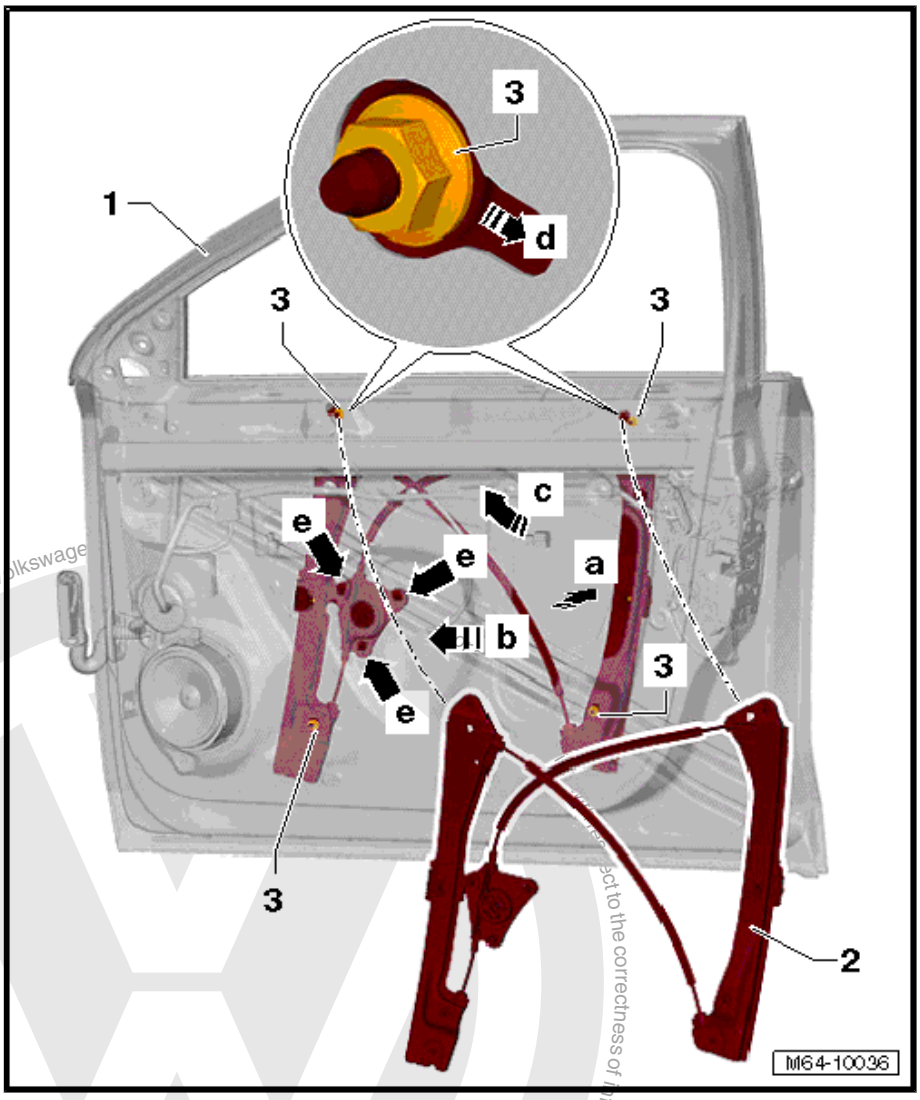
Perform the following:

– Remove the door window. Refer to ⇒ “2.3 Door Window, Removing and Installing”, page 222 .

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– Remove the window regulator motor. Refer to ⇒ “2.4 Window Regulator Motor, Removing and Installing”, page 228 .
– Release the hooks on the cable reel -b arrows- and push it into the door.
– Remove only the lower nuts -3- and push the threaded pin on the window regulator into the door.
– Loosen the top nuts -3- (do not remove them), slide them together with the window regulator in direction of the -arrow a- and push them into the door.
– Pivot the window regulator -2- with the cable reel out through the opening in the door in direction of -arrows c-, -d- and -e-.

2.5.2 Installing



Perform the following:

– Install the window regulator -2- with the cable reel through the opening in the door in direction of -arrows a-, -b- and -c-.
– Insert the upper threaded pins and nuts -3- through the door panel and move them in direction of -arrow d-.

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– Insert the threaded pins on the window regulator through the door panel.

– Install the lower nuts -3- and then tighten all the nuts -3-.

Nut tightening specification -3-: 8 Nm

– Insert the guides on the cable reel through the door panel until the hook engage -arrows e-.

– Install the window regulator motor. Refer to ⇒ “2.4 Window Regulator Motor, Removing and Installing”, page 228 .

– Install the door window. Refer to ⇒ “2.3 Door Window, Removing and Installing”, page 222 .

2.6 Window Guide, Removing and Installing

⇒ “2.6.1 Removing”, page 236

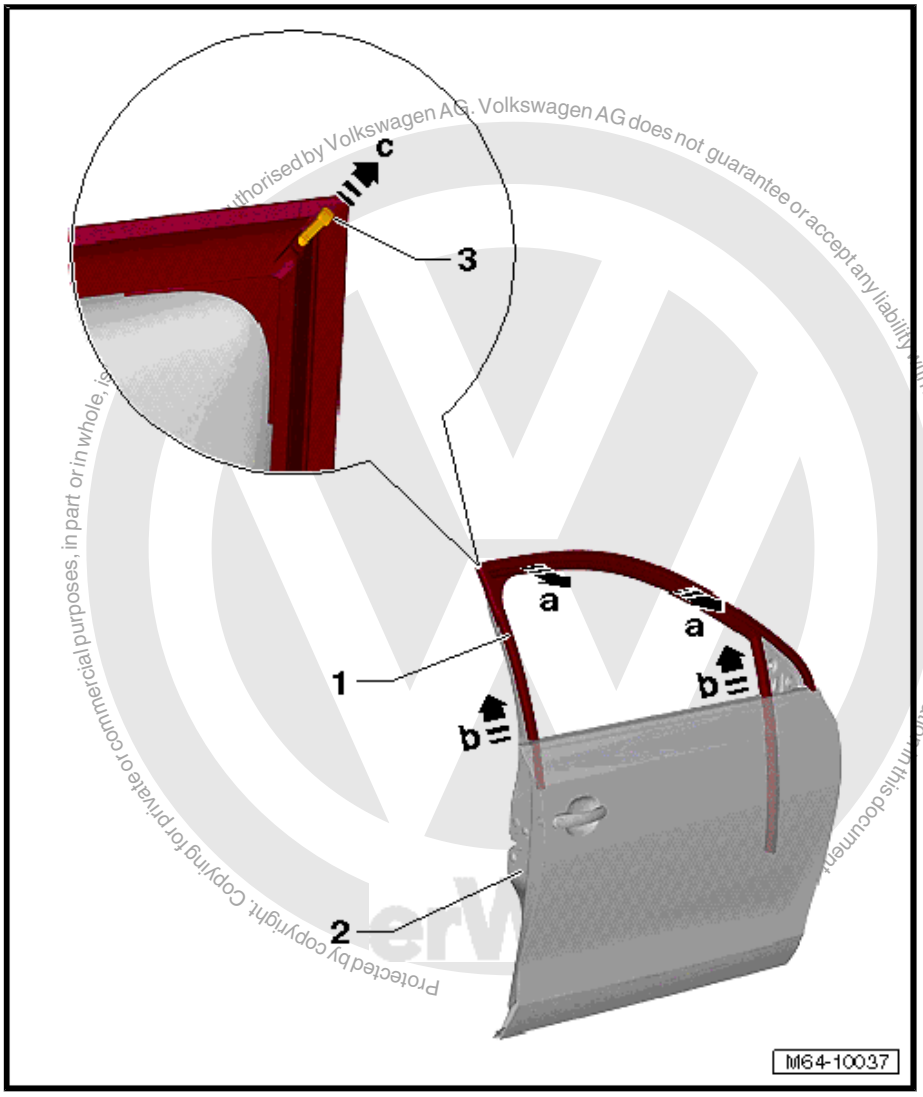
⇒ “2.6.2 Installing”, page 238

2.6.1 Removing

Note

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

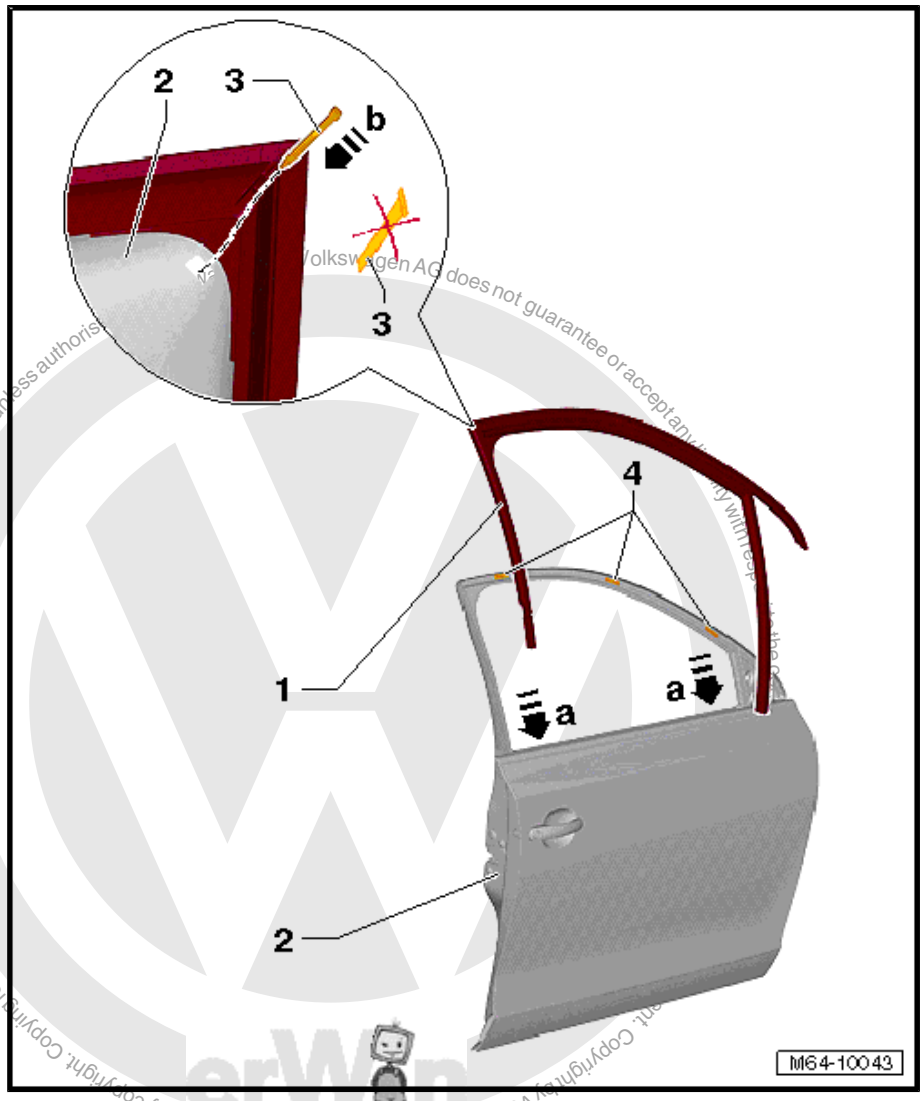
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Perform the following:

- Remove the door window. Refer to ⇒ “2.3 Door Window, Removing and Installing”, page 222 .
- Remove the inner window shaft seal. Refer to ⇒ “2.13 Inner Window Shaft Seal, Removing and Installing”, page 112 .
- Remove the outer window shaft seal. Refer to ⇒ “2.14 Outer Window Shaft Seal, Removing and Installing”, page 114 .
- Remove the clip -3- in direction of -arrow c-.
- Roll the window guide sealing lip -1- off the door flange from the inside.
- Remove the window guide -1- in direction of -arrows a- from the door flange -2- all the way around.
- Remove the window guide -1- from the mounts -arrows b-.

2.6.2 Installing



Perform the following:

– Tape off the openings -4- under the window guide with cloth tape.

Tape size: Height = approximately 10 mm, width = approximately 40 mm

– Spray the window guide with soapy water to make it easier to install.

– Install the window guide -1- into the mounts -a arrows-.

– Press the window guide -1- onto the door flange -2-.

– Pull the window guide sealing lip onto the door flange from the inside.

Note

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

– Install the clip -3- -arrow b-.

Note

- *The bevel on the clip must face toward the vehicle interior.*
- *Turn the clip the other way if the bevel faces the outside of the vehicle -with a red line drawn through it-.*

Install in reverse order of removal.

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3 Rear Door Window

⇒ “3.1 Tools”, page 240

⇒ “3.2 Overview - Rear Door Window”, page 240

⇒ “3.3 Door Window, Removing and Installing”, page 242

⇒ “3.4 Window Regulator Motor, Removing and Installing”, page 246

⇒ “3.5 Window Regulator, Removing and Installing”, page 251

⇒ “3.6 Window Guide, Removing and Installing”, page 253

⇒ “3.7 Fixed Door Window, Removing and Installing”, page 255

3.1 Tools

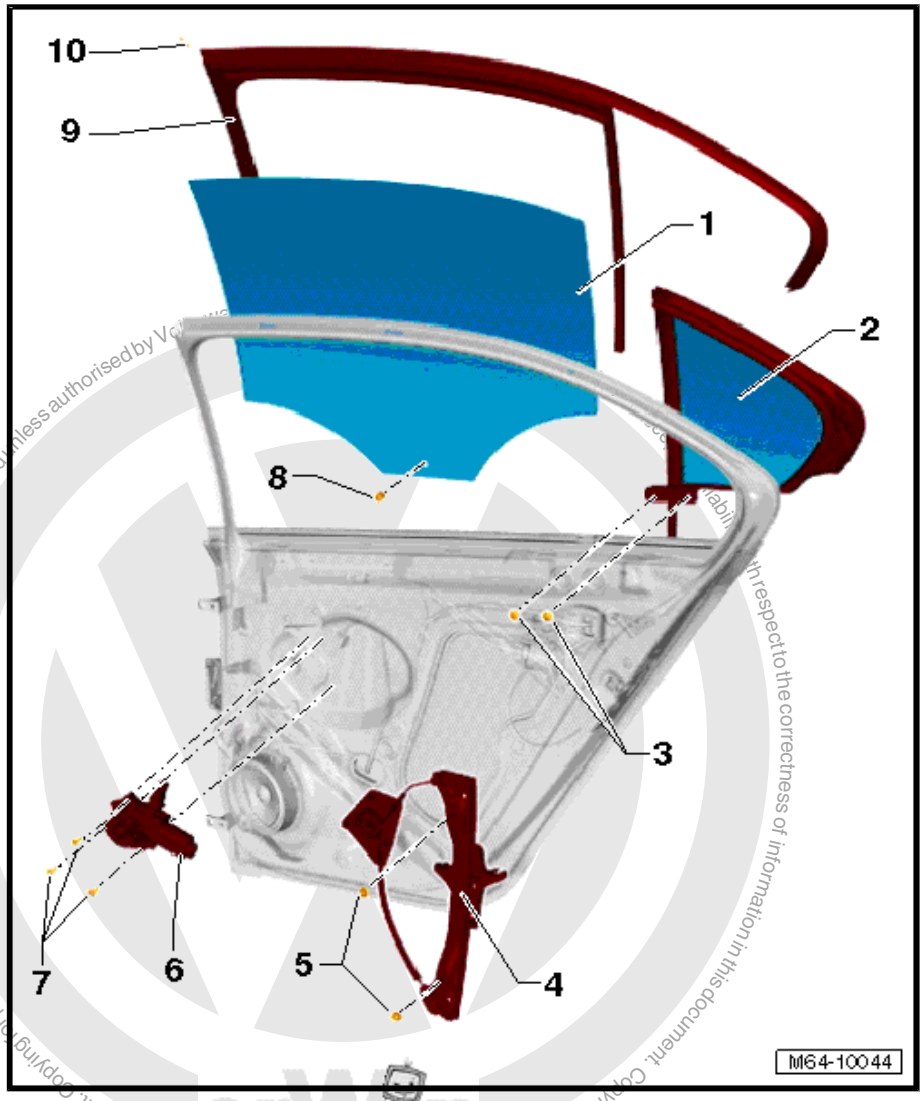
Special tools and workshop equipment required

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

3.2 Overview - Rear Door Window

Note

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



1 - Door Window

- ❑ Removing and installing. Refer to ⇒ “3.3 Door Window, Removing and Installing”, page 242 .

2 - Fixed Door Window

- ❑ Removing and installing. Refer to ⇒ “3.7 Fixed Door Window, Removing and Installing”, page 255 .

3 - Bolt

- ❑ Tightening specification: 5.5 Nm
- ❑ Quantity: 2

4 - Window Regulator

- ❑ Removing and installing. Refer to ⇒ “3.5 Window Regulator, Removing and Installing”, page 251 .

5 - Nut

- ❑ Tightening specification: 8 Nm
- ❑ Quantity: 2

6 - Window Regulator Motor

- ❑ Removing and Installing, High Equipment (AW1). Refer to ⇒ “3.4.1 Window Regulator Motor, Removing and Installing, High Equipment AW1”, page 246 .
- ❑ Removing and Installing, Low Equipment (AW0). Refer to ⇒ “3.4.2 Window Regulator Motor, Removing and Installing, Low Equipment AW0”, page 248 .

7 - Screw

- ❑ High equipment (AW1): 3 Nm
- ❑ Low equipment (AW0): 4 Nm, note the tightening sequence. Refer to ⇒ “3.4.2 Window Regulator Motor, Removing and Installing, Low Equipment AW0”, page 248 .

8 - Spreader Plug with Expanding Pin

- ❑ For securing the door window -1-
- ❑ Always replace when performing assembly work on the door window -1-

9 - Window Guide

- ❑ Removing and installing. Refer to ⇒ “3.6 Window Guide, Removing and Installing”, page 253 .

10 - Clip

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3.3 Door Window, Removing and Installing

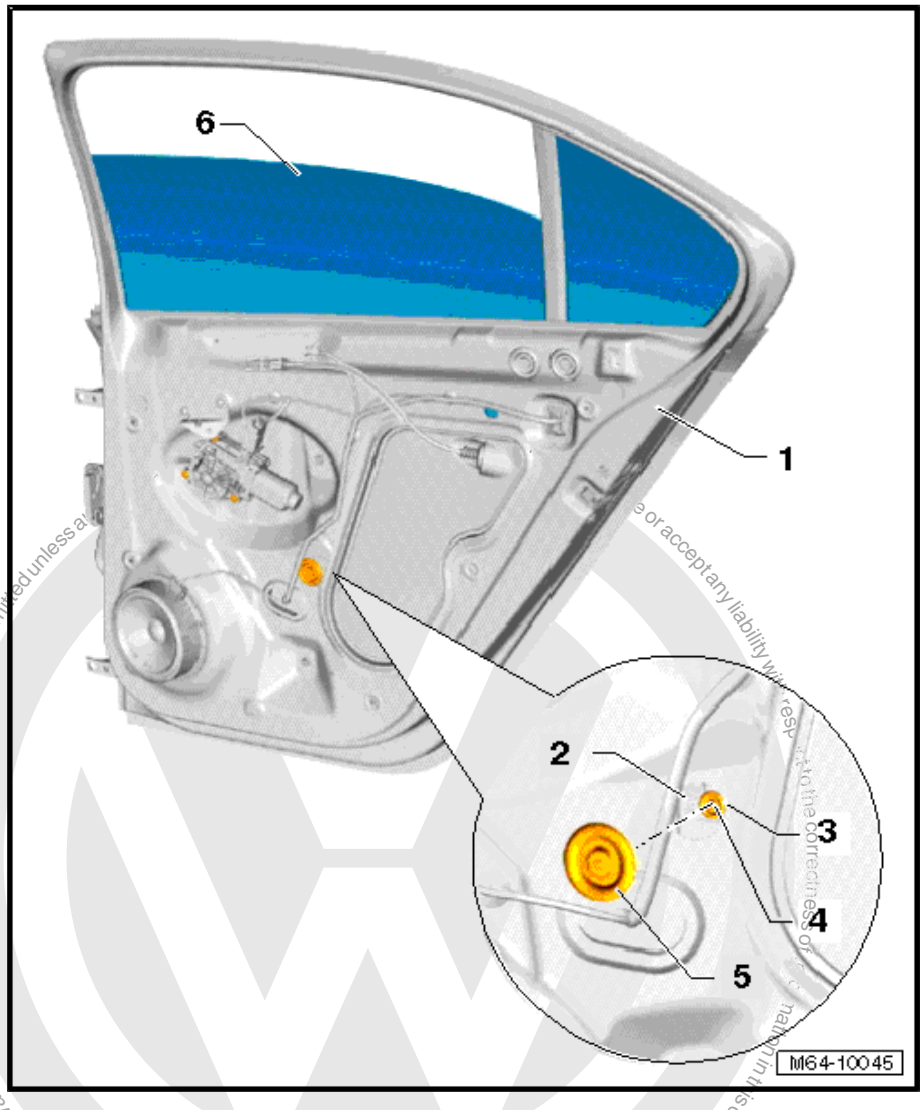
⇒ “3.3.1 Removing”, page 242

⇒ “3.3.2 Installing”, page 245

3.3.1 Removing

Note

- *The following describes the removal and installation of the right door window. Removing and installing the left door window is identical.*
- *Do not bend window shaft seal when removing!*



Perform the following:

– Remove the rear door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

– Lower the door window -6- until it stops.

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Note

- *If it is not possible to do this because the window regulator motor -7- is faulty, then remove the motor. Refer to ⇒ "3.4 Window Regulator Motor, Removing and Installing", page 246 .*
- *Then the door window can be moved to the necessary position.*

– Remove the inner window shaft seal. Refer to ⇒ "2.11 Inner Window Shaft Seal, Removing and Installing", page 156 .

– Remove the outer window shaft seal. Refer to ⇒ "2.12 Outer Window Shaft Seal, Removing and Installing", page 158 .

– Remove the front part of the window guide (on the B-pillar). Refer to ⇒ "3.6 Window Guide, Removing and Installing", page 253 .

– Pry out the cap -5-.

– Lift the door window -6- just enough until the expanding pin -4- and the spreader plug -3- are accessible in the opening for the window regulator -2-.

– Install a 5 mm screw (approximately 70 mm long) into the expanding pin -4- and pull it out of the spreader plug -3-.

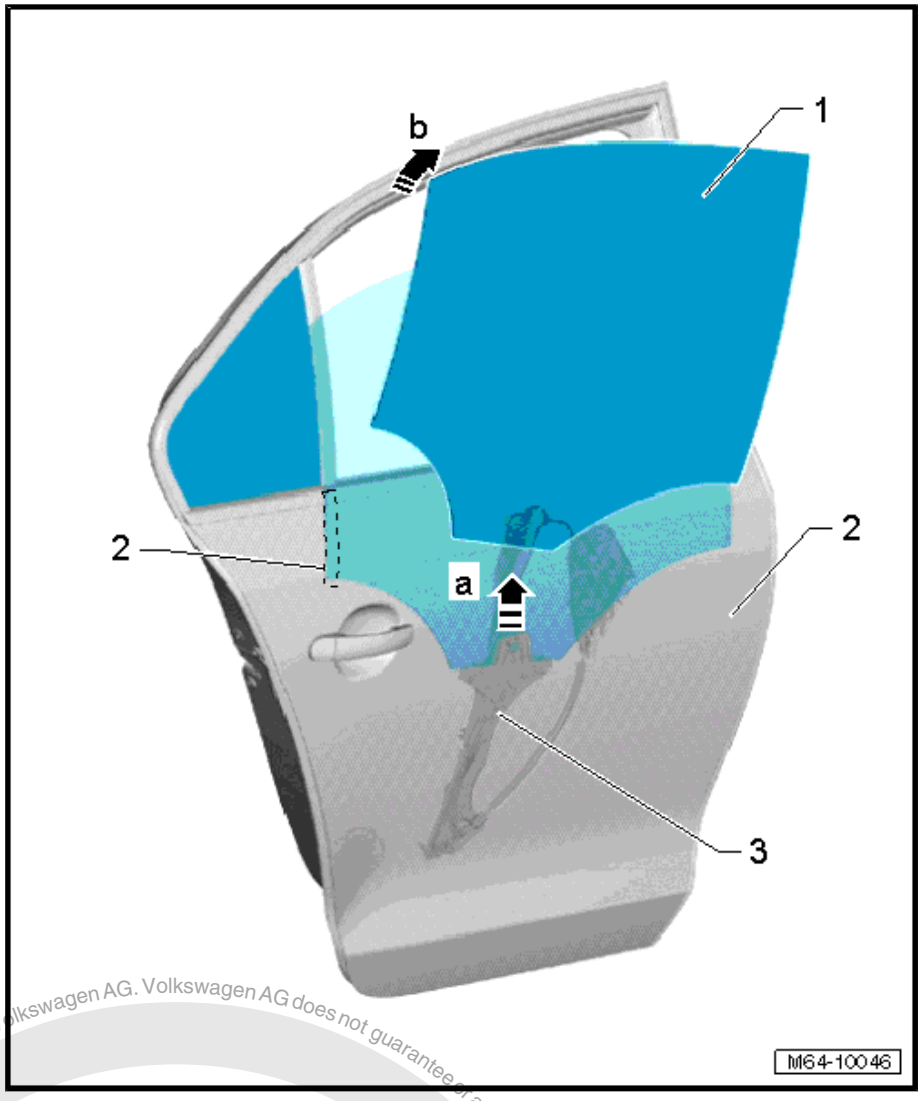
– Install a 8 mm screw (approximately 80 mm long) into the spreader plug -3-.

Note

Do not apply excessive pressure on the plug when installing the screw into the plug. Otherwise it will fall inside the door.

– Remove the spreader plug -3- from window regulator guide and thereby from door window.

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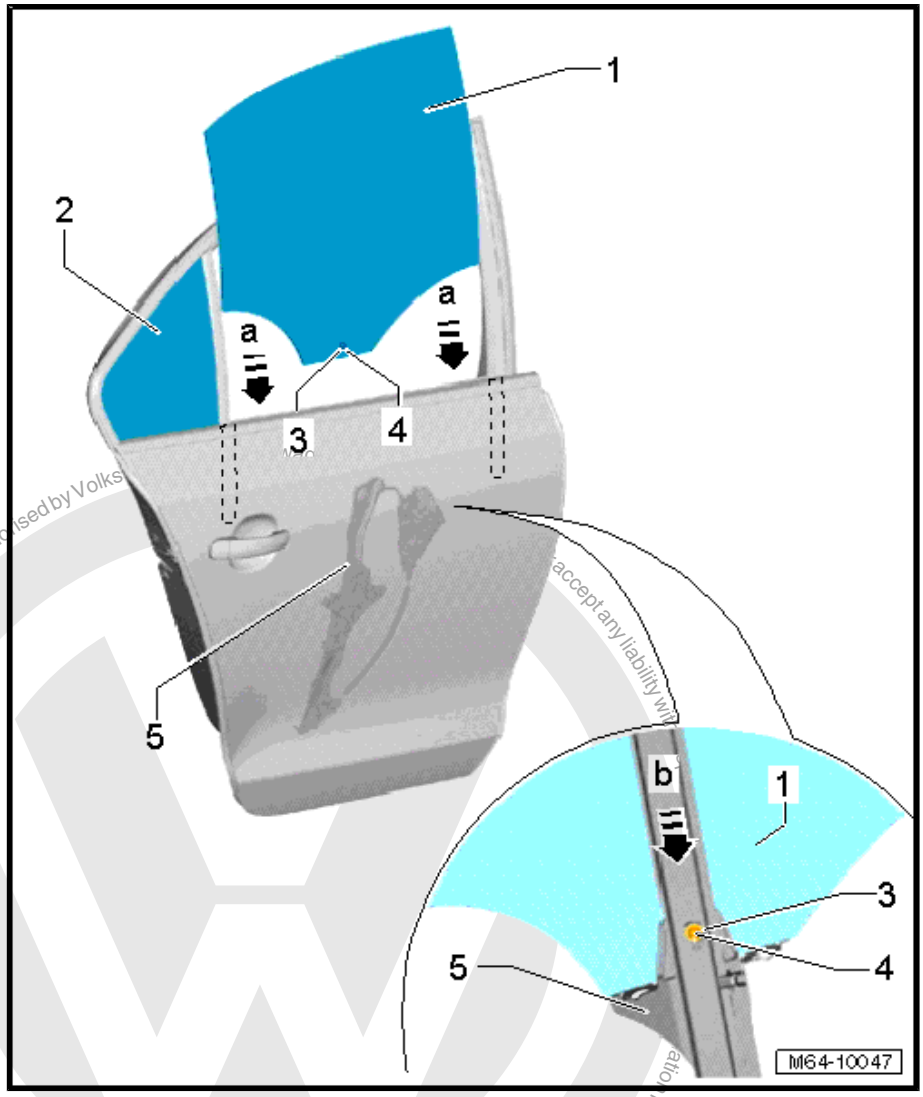
– Remove the door window -1- from the window regulator -3- in direction of -a arrows-.
– Remove the door window -1- at an angle -arrows b- from the window shaft.

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3.3.2 Installing

Note

- *Spreader plug -3- and spreader pin -4- must always be replaced when performing assembly work on door window.*
- *Check the door window -1- for damage before installing the spreader plug -3- and the expanding pin -4-.*



Perform the following:

– Install the spreader plug -3- with the door window removed -1- and center it.

– Press in spreader pin -4- flush into spreader plug -3-.

– Guide the door window -1- in the door -2- in direction of -arrows a- and insert the door window into the slot in the window regulator guide -5-.

– Secure the window -1- with light pressure from above in direction of -arrow b- inside the window regulator -5-.

Install in reverse order of removal.

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3.4 Window Regulator Motor, Removing and Installing

⇒ “3.4.1 Window Regulator Motor, Removing and Installing, High Equipment AW1”, page 246

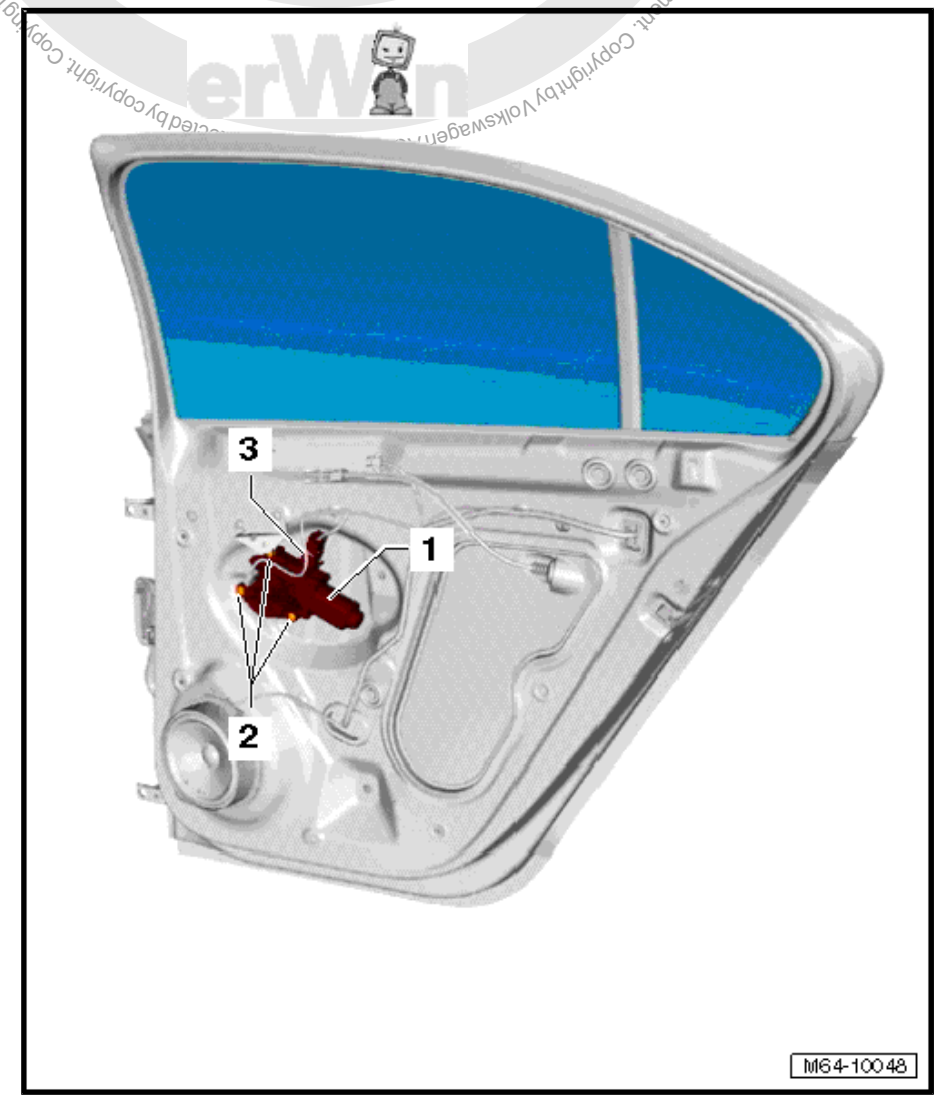
⇒ “3.4.2 Window Regulator Motor, Removing and Installing, Low Equipment AW0”, page 248

3.4.1 Window Regulator Motor, Removing and Installing, High Equipment AW1

Removing

Note

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



– Remove the rear door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

– Secure the door window with adhesive tape to prevent it from falling down.

Caution

– Disconnect the connector -3-.

– Remove three bolts -2-.

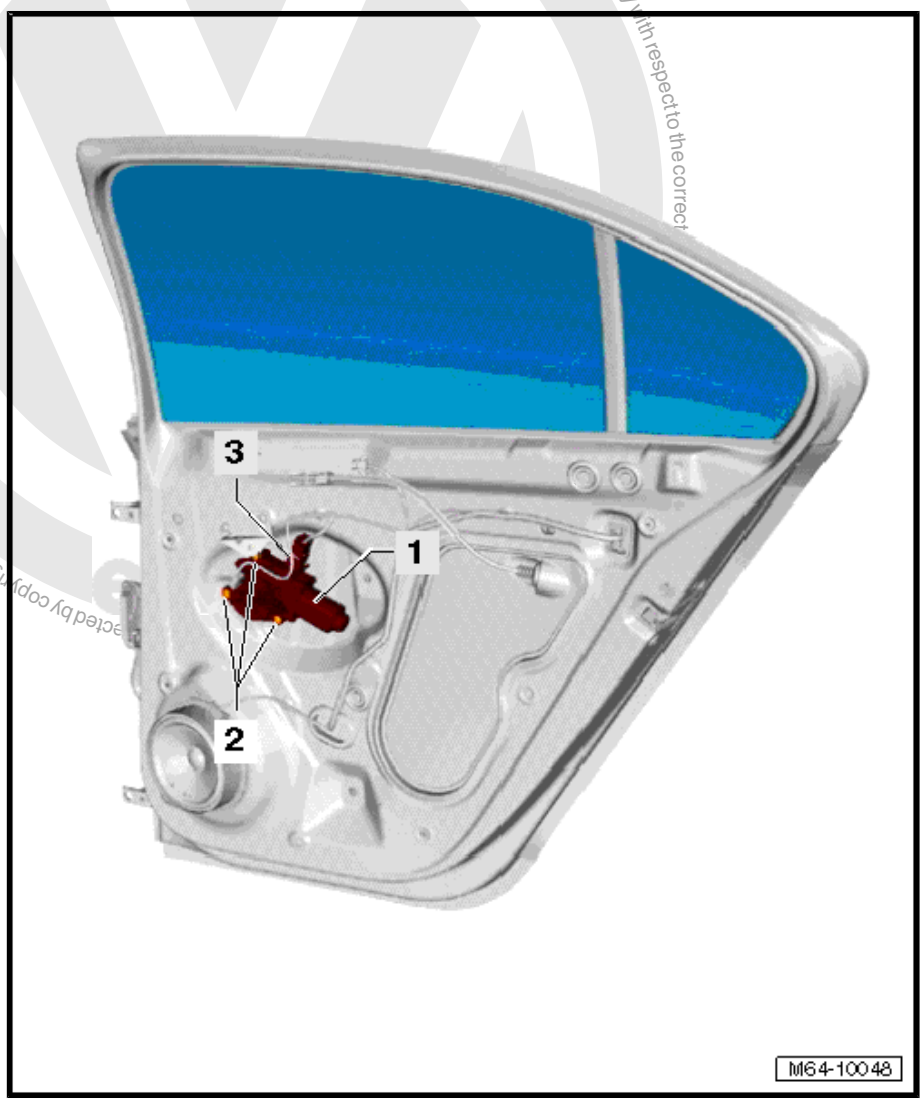
– Remove the window regulator motor and control module -1- from the mounts on the cable reel.

Installing

WARNING

The additional functions and pinch protection must be coded when a new window regulator motor (door control module) is installed.

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Install in reverse order of removal. Note the following:

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

– Install three bolts -2-.

Screw tightening specification -2-: 4 Nm

– Connect the connector -3-.

– Code the new window regulator motor using the Vehicle Diagnostic Tester .

– The procedure and information regarding the one-touch up/ down function as well as the pinch protection can be found here ⇒ Maintenance ; Booklet 20.1 .

Tightening Specifications

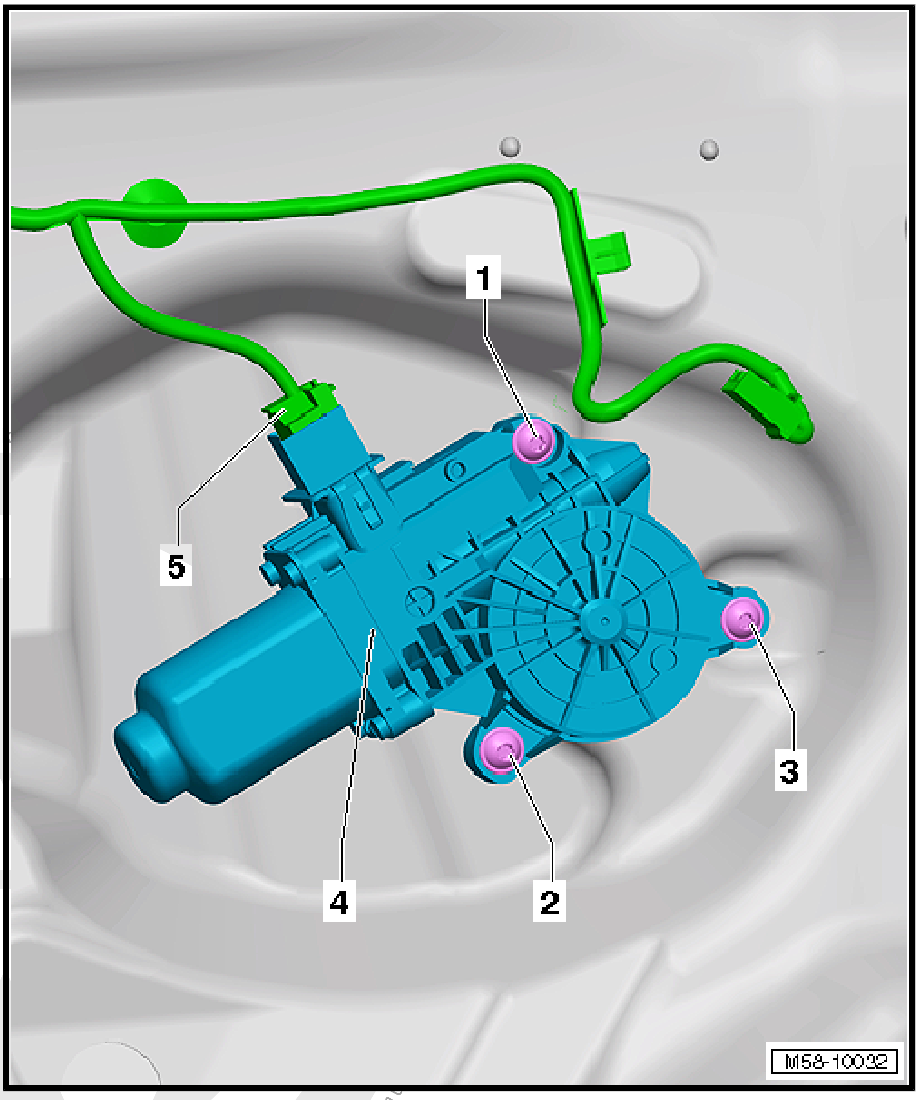
3.4.2 Window Regulator Motor, Removing and Installing, Low Equipment AW0

Removing

Note

The following describes the removal and installation of the left window regulator motor. Removing and installing the right window regulator motor is identical.

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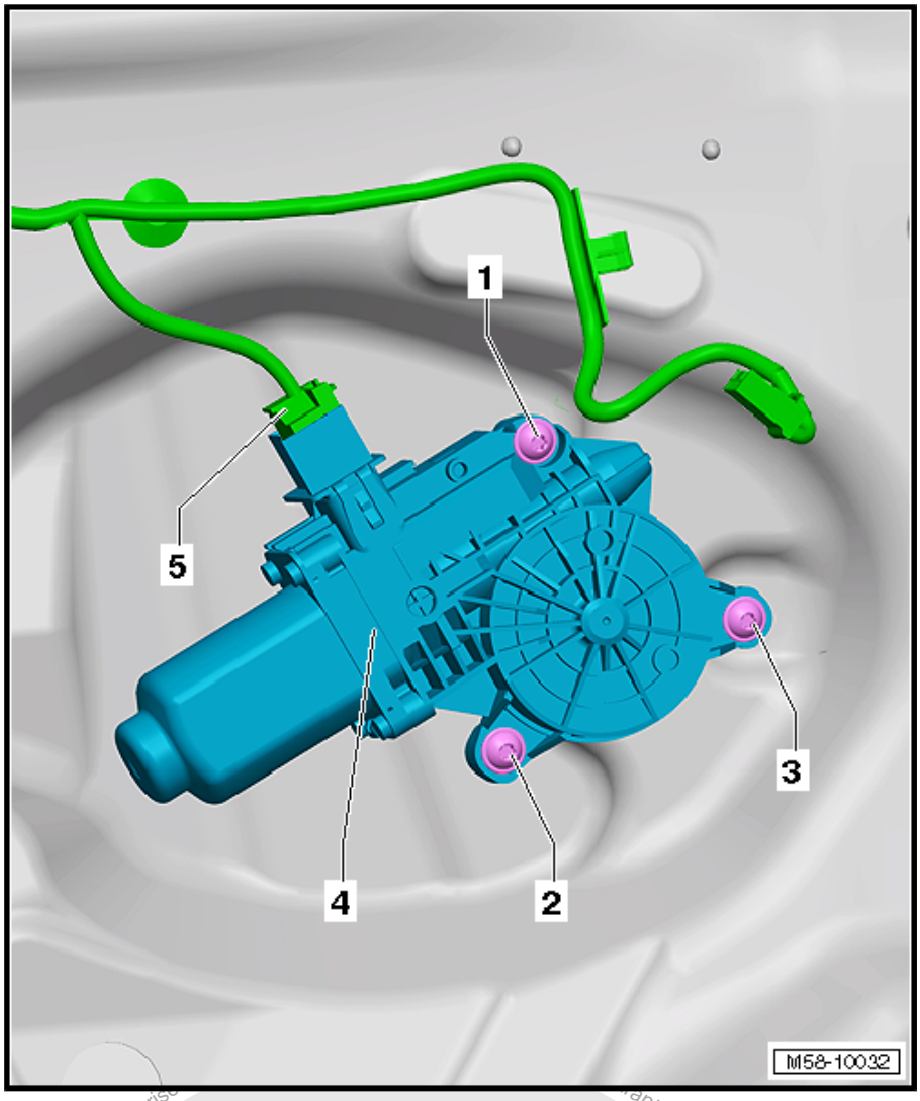


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– Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .
– Secure the door window with adhesive tape to prevent it from falling down.
– Switch off the ignition and all electrical equipment.
– Remove the ignition key.
– Disconnect the connector -5-.
– Remove the bolts -1 through 3-.
– Remove the window regulator motor -4- from the mounts of the cable reel.

Installing

> ⚠ WARNING
>
> *The additional functions and pinch protection must be coded when a new window regulator motor (door control module) is installed.*



Install in reverse order of removal. Note the following:

– Install the window regulator motor -4- on the mounts of 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.

– Attach the connector -5-.

– Tighten the bolts in a -1 through 3- sequence.

WARNING

Before installing the door trim panel, check that any holes in the door panel are sealed with the corresponding adhesive. Refer to ⇒ "2.17 Overview - Insulation", page 121 .

– Code the new window regulator motor using the Vehicle Diagnostic Tester .

– The procedure and information regarding the one-touch up/down function as well as the pinch protection can be found here. Refer to ⇒ Maintenance ; Booklet 20.1 .

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Tightening Specifications

3.5 Window Regulator, Removing and Installing

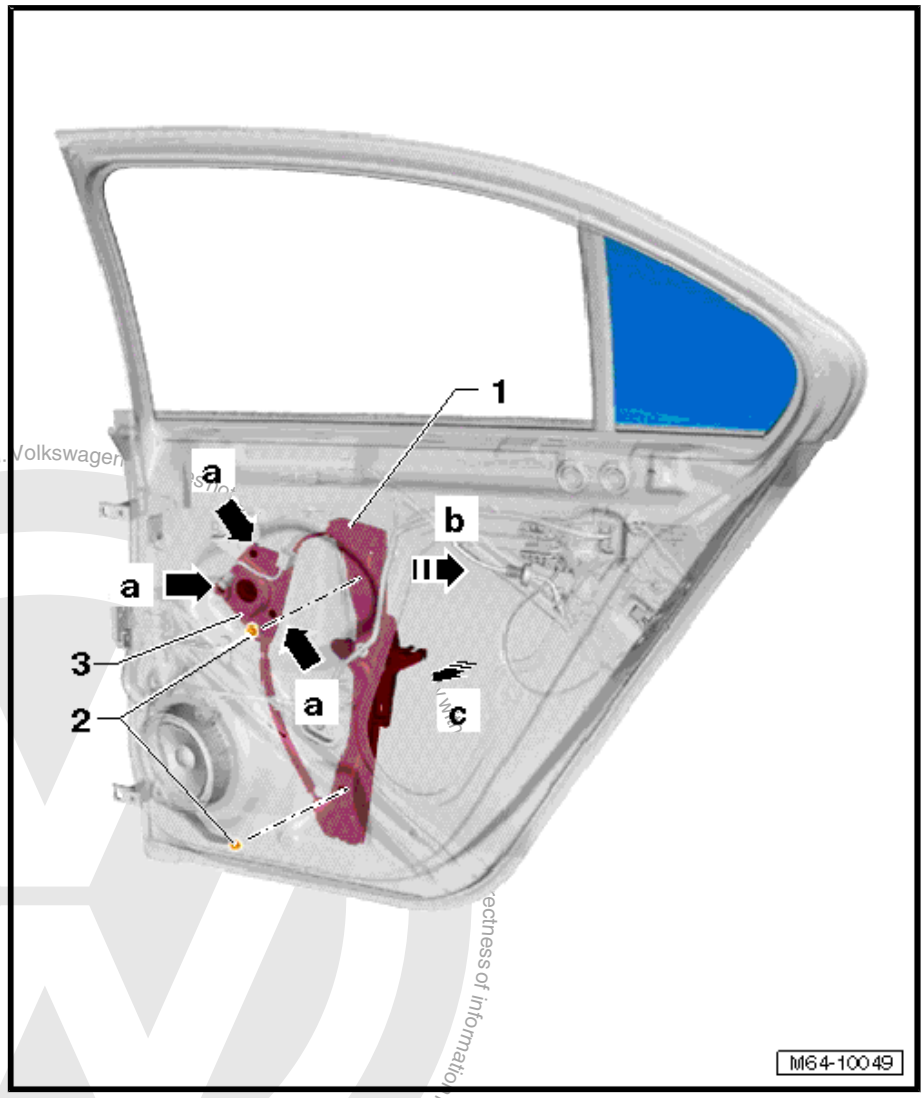
⇒ “3.5.1 Removing”, page 251

⇒ “3.5.2 Installing”, page 252

3.5.1 Removing

Note

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



Perform the following:

– Remove the cover. Refer to ⇒ “2.3 Cover, Removing and Installing”, page 139 .

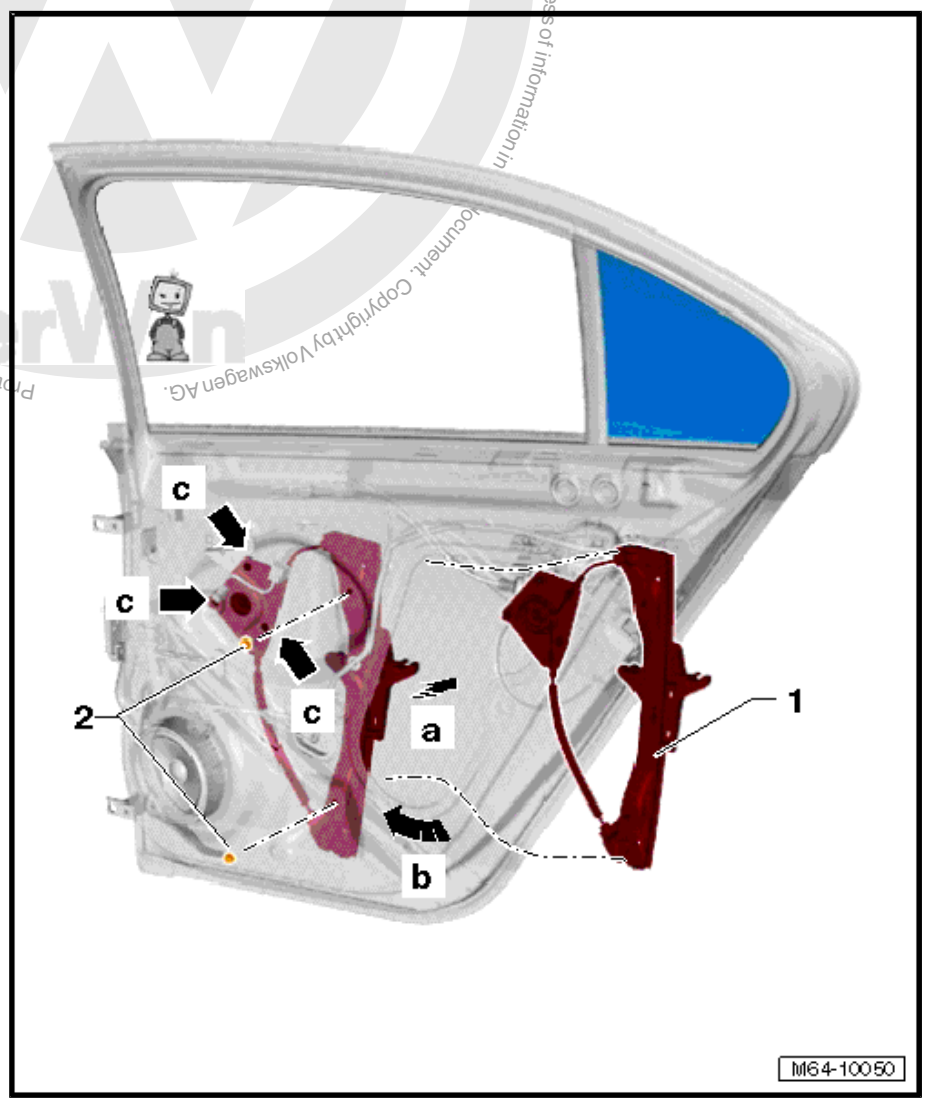
– Remove the door window. Refer to ⇒ “3.3 Door Window, Removing and Installing”, page 242 .

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– Remove the window regulator motor. Refer to ⇒ “3.4 Window Regulator Motor, Removing and Installing”, page 246 .
– Release the hooks on the cable reel in direction of -a arrows- and push it -3- into the door.
– Remove the nuts -2- and push the threaded pin on the window regulator into the door.
– Swivel the window regulator -1- with the cable reel out through the opening in the door in direction of -arrows b and c-.

3.5.2 Installing



Perform the following:

– Install the window regulator -1- with the cable reel through the opening in the door -arrow a and b-.
– Insert the threaded pins on the window regulator through the door panel.
– Install and tighten the nuts -2-.

Nut tightening specification -2-: 8 Nm

– Insert the guides on the cable reel through the door panel until the hooks engage -arrows c-.
– Install the window regulator motor. Refer to ⇒ “3.4 Window Regulator Motor, Removing and Installing”, page 246 .
– Install the door window. Refer to ⇒ “3.3 Door Window, Removing and Installing”, page 242 .
– Install the cover. Refer to ⇒ “2.3 Cover, Removing and Installing”, page 139 .

3.6 Window Guide, Removing and Installing

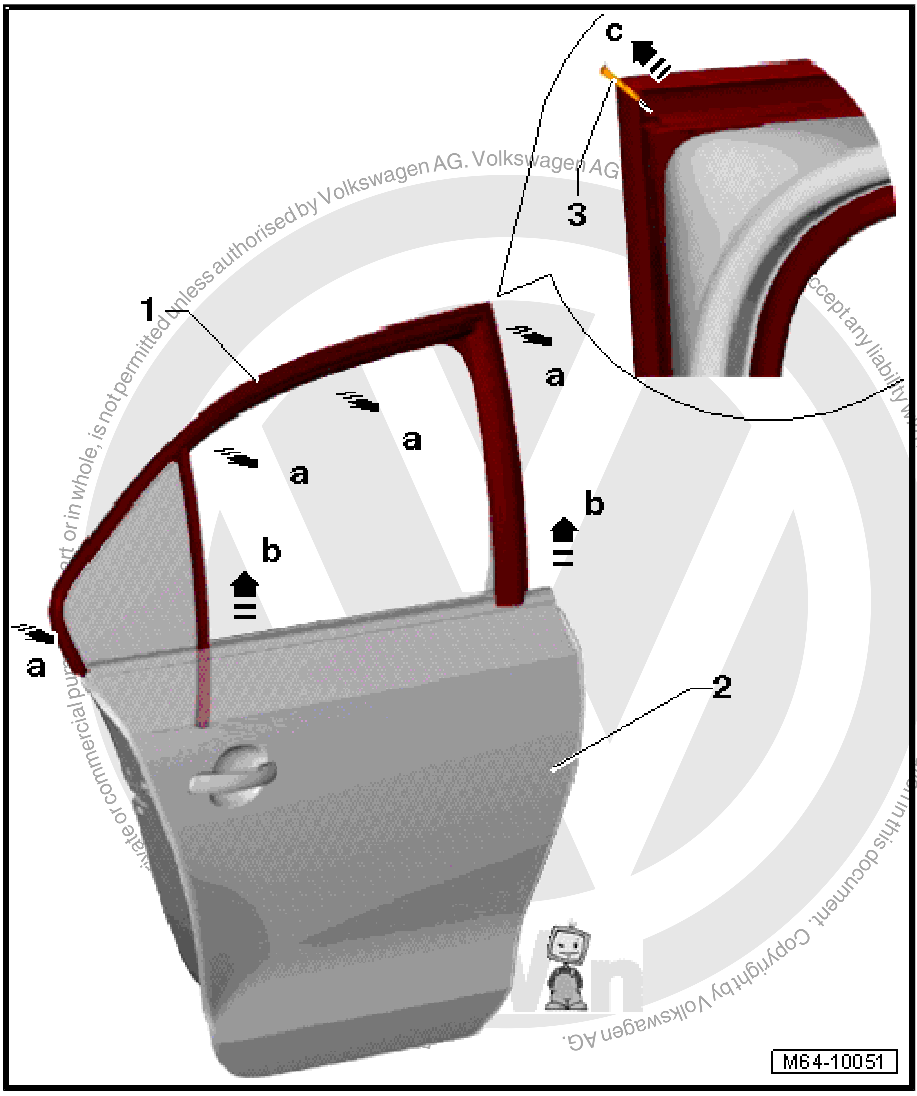
⇒ “3.6.1 Removing”, page 253

⇒ “3.6.2 Installing”, page 254

3.6.1 Removing

Note

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



Perform the following:

– Remove the door window. Refer to
⇒ “3.3 Door Window, Removing and Installing”, page 242 .

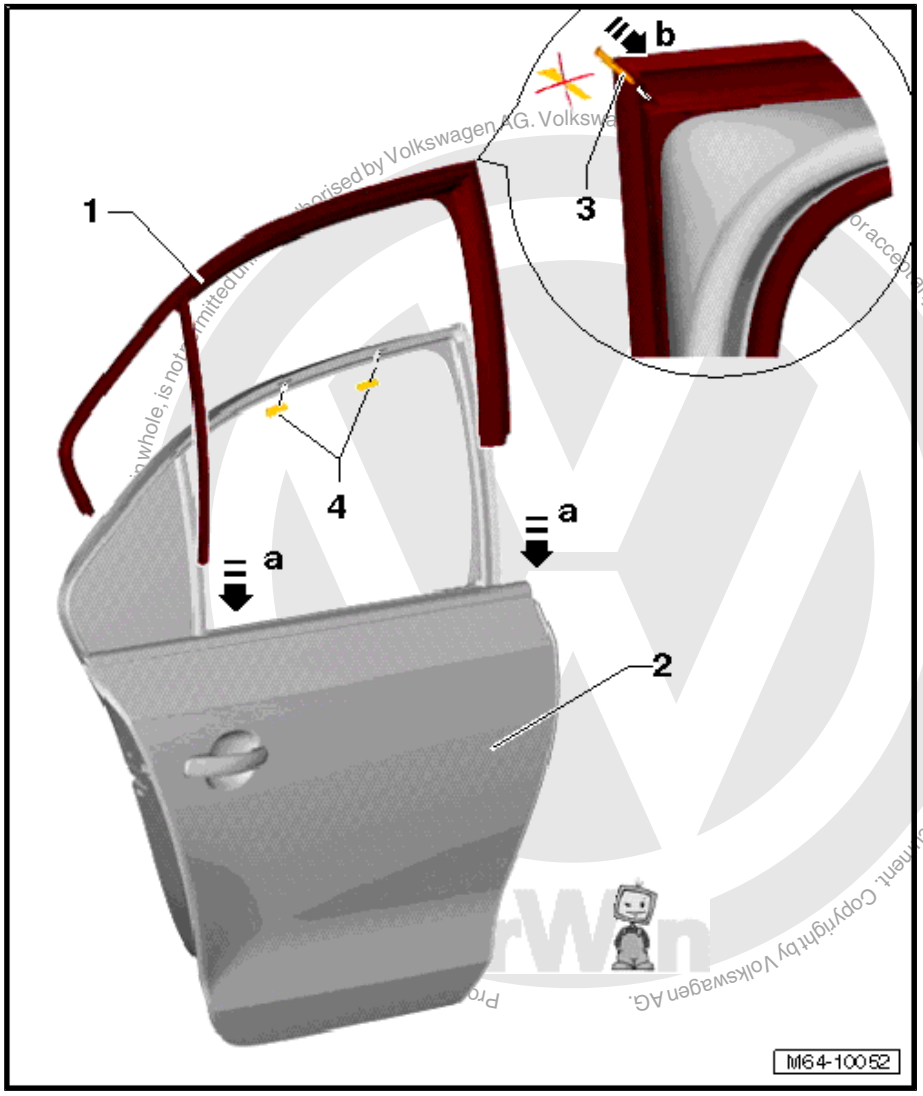
– Remove the clip -3- in direction of -arrow c-.

– Roll the window guide sealing lip -1- off the door flange from the inside.

– Remove the window guide -1- in direction of -arrows a- from the door flange -2- all the way around.

– Remove the window guide -1- from the mounts in direction of -arrows b-.

3.6.2 Installing



Perform the following:

– Tape off the openings -4- under the window guide with cloth tape.

Tape size: Height = approximately 10 mm, width = approximately 40 mm

– Spray the window guide with soapy water to make it easier to install.

– Install the window guide -1- into the mount on the fixed door window in direction of -arrow a-.
– Push the window guide -1- evenly onto the door flange -2- from the fixed door window up the B-pillar.
– Pull the sealing lip on the window guide up to the B-pillar onto the door flange.

Note

- *Make sure the window guide -1- fits evenly when installing it (wind noises).*
- *Install the window guide on the B-pillar after installing the door window.*

– Install the clip -3- in direction of -arrow b-.

Note

- *The bevel on the clip must face toward the vehicle interior.*
- *Turn the clip the other way if the bevel faces the outside of the vehicle -with a red line drawn through it-.*

Install in reverse order of removal.

3.7 Fixed Door Window, Removing and Installing

⇒ “3.7.1 Removing”, page 255

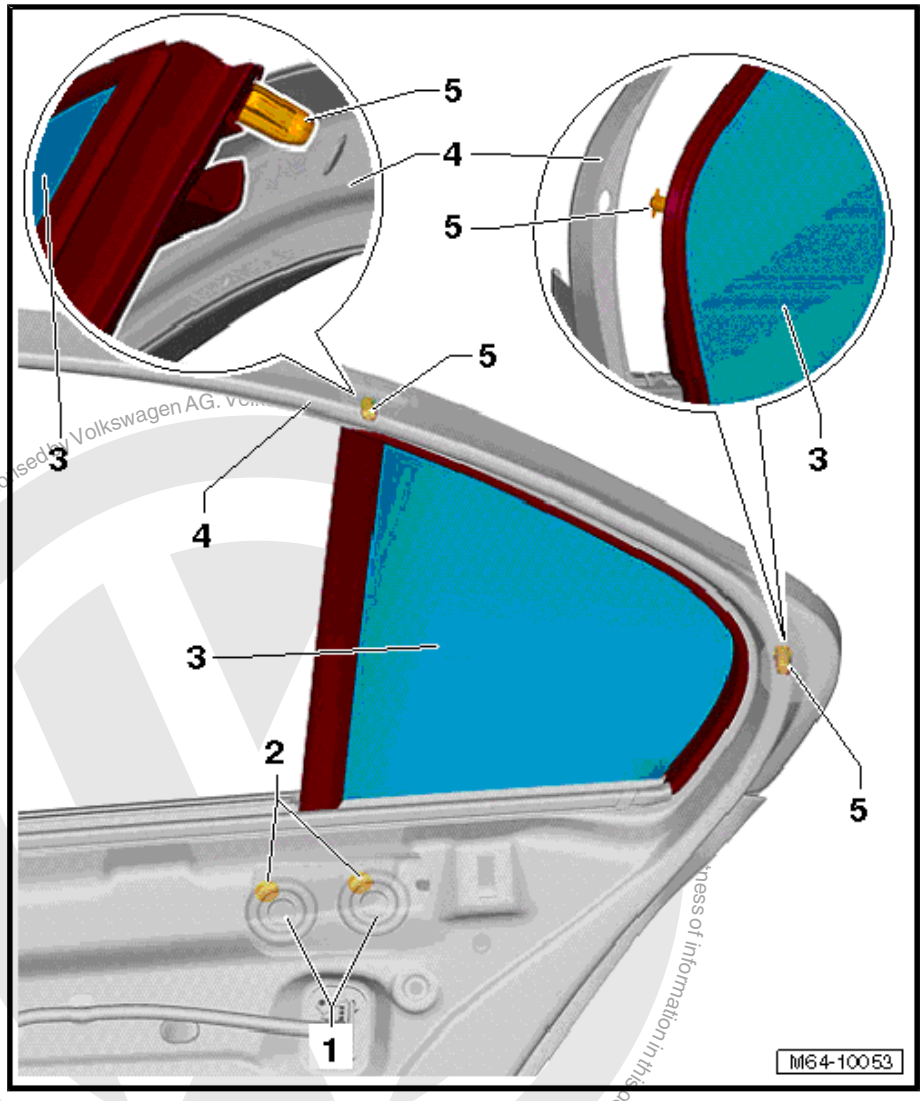
⇒ “3.7.2 Installing”, page 257

3.7.1 Removing

Note

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

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Perform the following:

– Remove the window guide. Refer to ⇒ “3.6 Window Guide, Removing and Installing”, page 253 .

– Pry the caps -1- out.

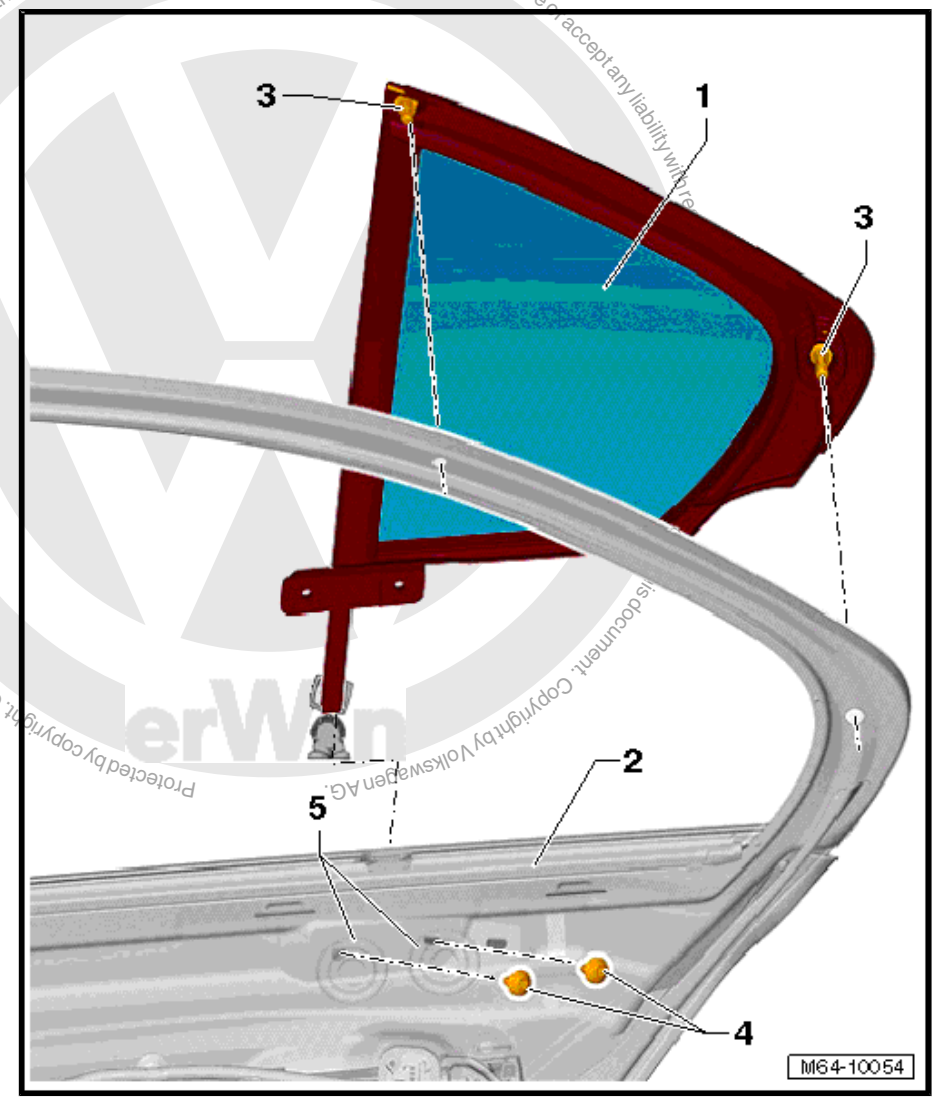
– Remove the bolts -2-.

– Pull the fixed door window -3- just far enough from the off the door -4- until the clips -5- are released.

– Remove the fixed door window -3- from the door -4-.

3.7.2 Installing

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Perform the following:

– Install the fixed door window -1- into the door -2-.

– Press the fixed door window -1- evenly onto the door -2- until the clips engage -3-.

– Tighten the bolts -4-.

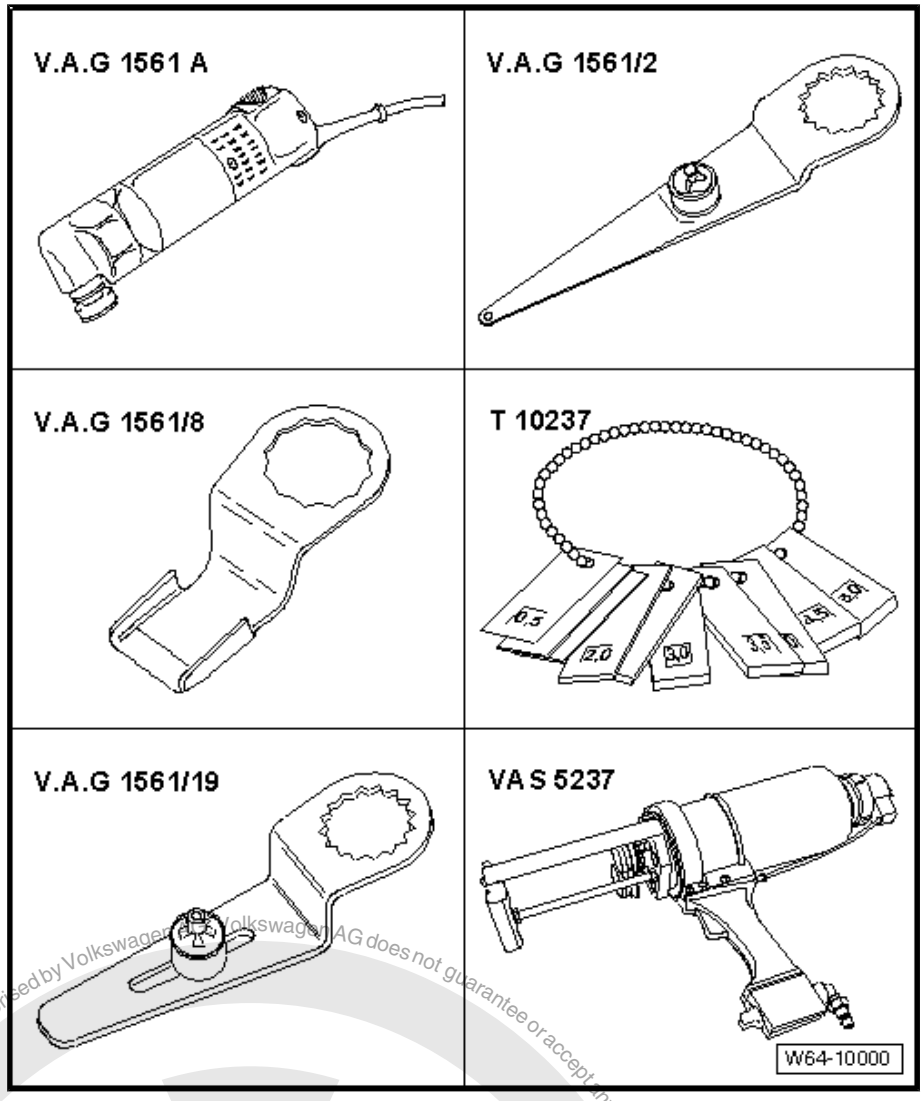
Bolt tightening specification -4-: 5.5 Nm

– Install the caps -5-.

– Install the window guide. Refer to
⇒ “3.6 Window Guide, Removing and Installing”, page 253 .

4 Special Tools

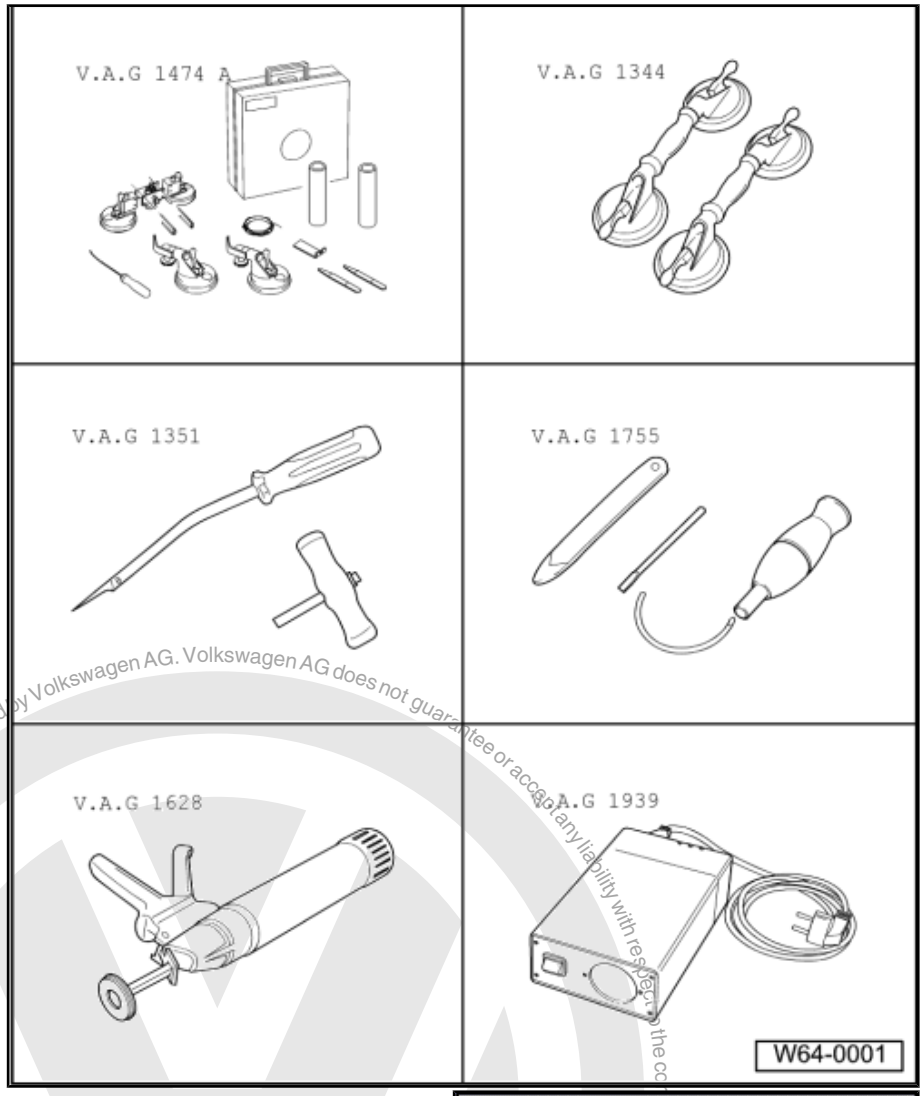
- Double Cartridge Gun - VAS5237-

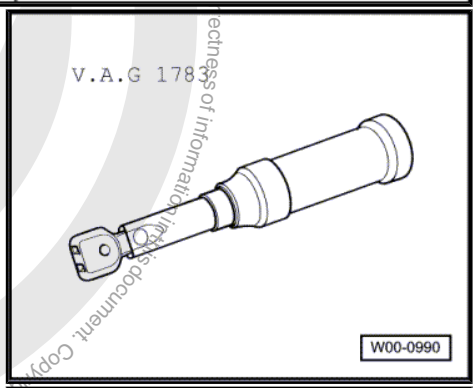


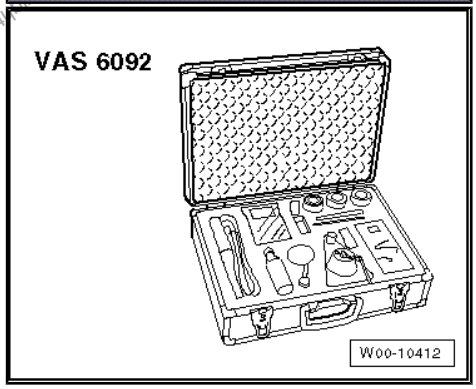
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Special tools and workshop equipment required

- Gauge - Gap Adjustment - 3371-
- Double Suction Lifter - VAG1344-
- Bonded Window Tool Kit - VAG1351-
- Flush Bonded Window Kit - VAG1474 B-
- Flush Bonded Window Kit - COVER FOR AUDI 80/92> Dash Panel - VAG1474/8-
- Window Cutter - VAG1561 A-
- Window Cutter - Saw Blade - VAG1561/2-
- Window Cutter - Saw Blade - VAG1561/8-
- Window Cutter - Blade (2 pc.) - VAG1561/19-
- Cartridge Gun - VAG1628-
- Window Removing Kit - VAG1755-
- Torque Wrench 1783 - 2-10Nm - VAG1783-
- Window Repair Kit - VAS6092-
- Grindstone Holder - VAG1939-
- Cutting Tool for Bonded Windows - VAS6452-







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66 – Exterior Equipment

1 Wheel Housing Liner

⇒ “1.1 Tools”, page 260

⇒ “1.2 Overview - Front Wheel Housing Liner”, page 260

⇒ “1.3 Front Wheel Housing Liner, Removing and Installing”, page 261

⇒ “1.4 Overview - Rear Wheel Housing Liner”, page 264

⇒ “1.5 Rear Wheel Housing Liner, Removing and Installing”, page 265

1.1 Tools

Special tools and workshop equipment required

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

1.2 Overview - Front 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.*

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1 - Wheel Housing Liner

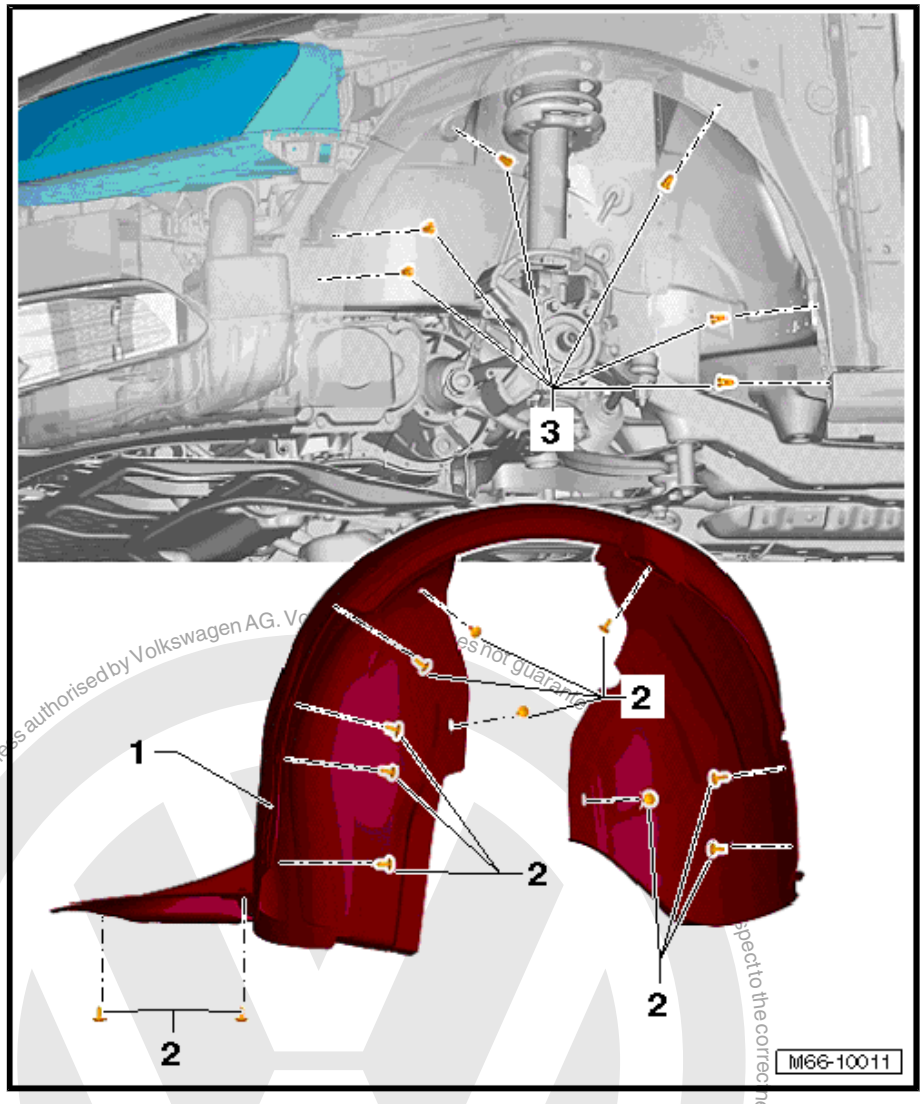
- ❑ PP/EPDM material
- ❑ Removing and installing. Refer to ⇒ “1.3 Front Wheel Housing Liner, Removing and Installing”, page 261 .

2 - Screw

- ❑ Tightening specification: 2 Nm
- ❑ Quantity: 12

3 - Expanding Nut

- ❑ Quantity: 6
- ❑ Replace if damaged



1.3 Front Wheel Housing Liner, Removing and Installing

⇒ “1.3.1 Removing”, page 261

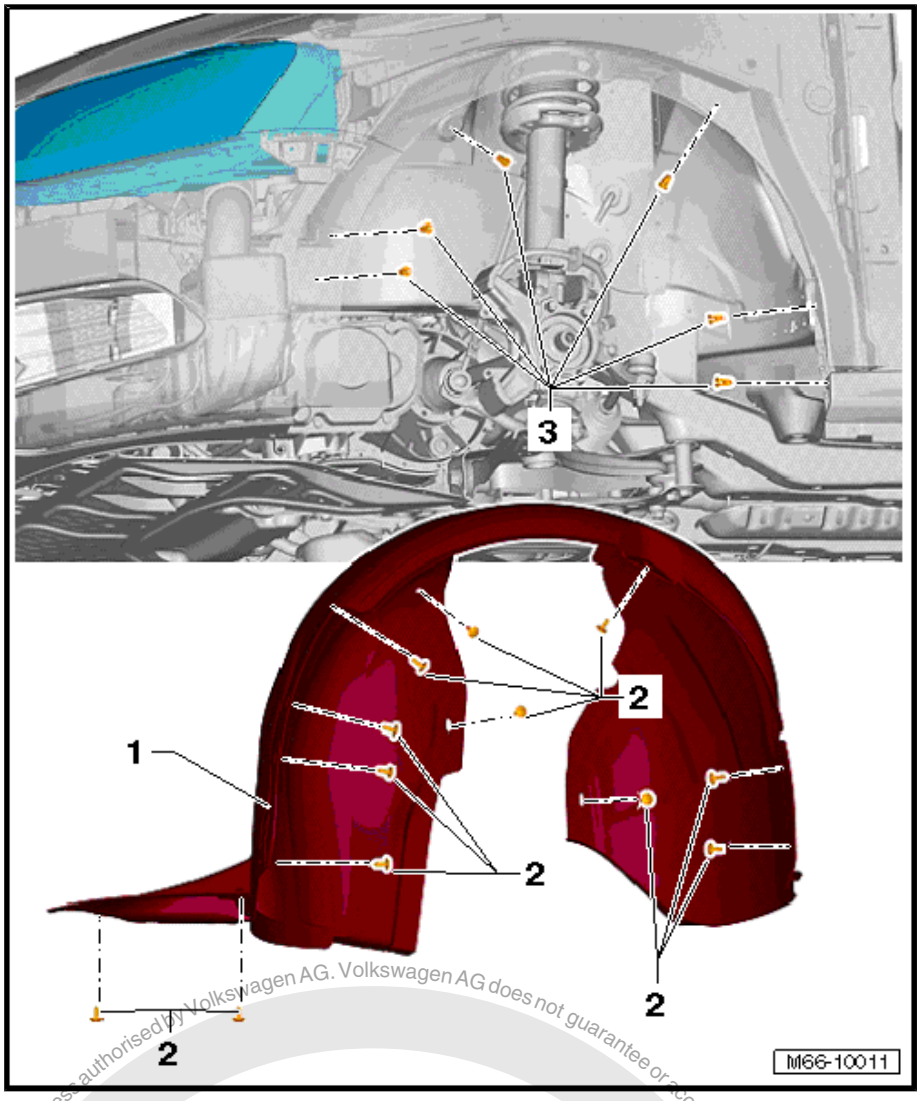
⇒ “1.3.2 Installing”, page 263

1.3.1 Removing

Note

- *The following describes removing and installing the left wheel housing liner. Removing and installing right wheel housing liner is identical.*
- *Depending on the model version, slight differences must be considered when removing and installing.*

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Perform the following:

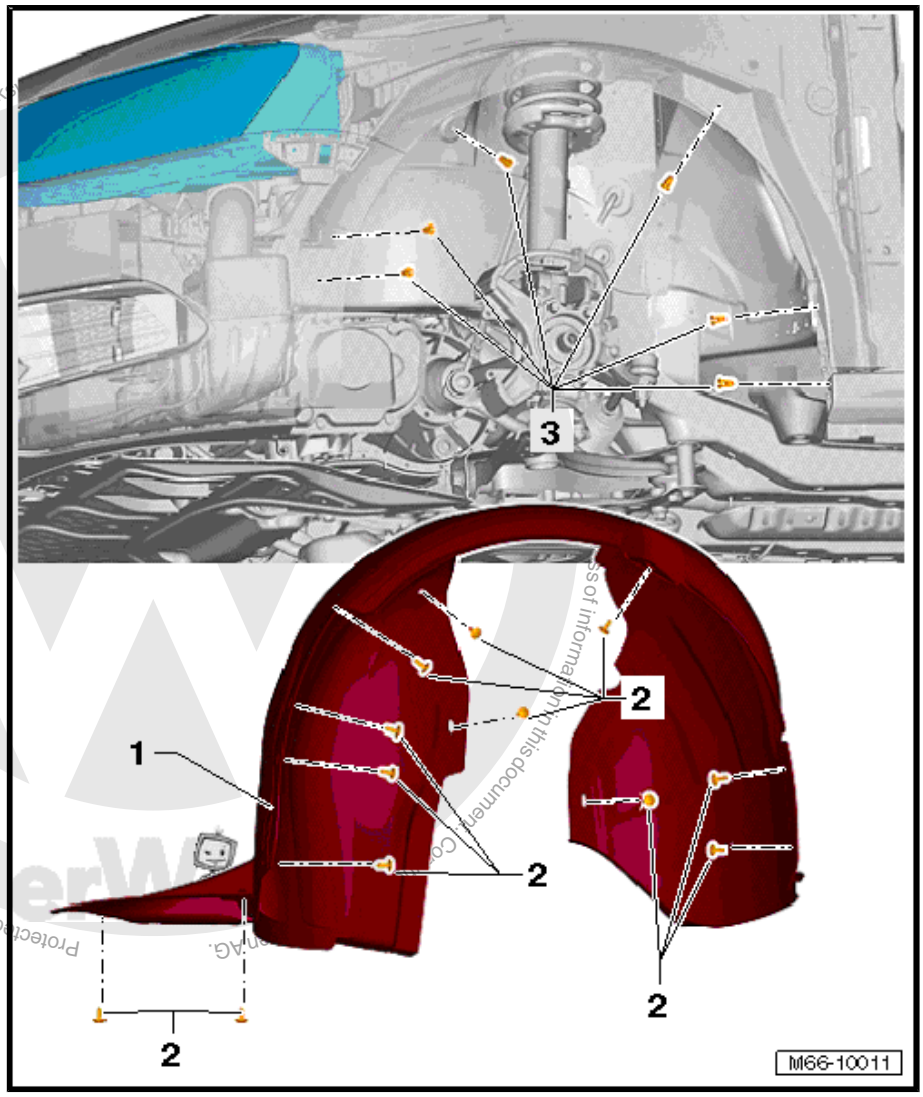
– Remove the wheel. Refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; Wheel Installation Tightening Specifications .

– Remove the bolts -2- (quantity: 12).

– Remove the wheel housing liner -1- from the fender.

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1.3.2 Installing



Perform the following:

Note

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

– Install the wheel housing liner -1- into the fender.

– Install and tighten the bolts -2-.

Bolt tightening specification -2-: 2 Nm

– Install the wheel. Refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; Wheel Installation Tightening Specifications .

1.4 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 - Wheel Housing Liner

- ❑ PP/EPDM material
- ❑ Removing and installing. Refer to ⇒ "1.5 Rear Wheel Housing Liner, Removing and Installing", page 265 .

2 - Screw

- ❑ Tightening specification: 2 Nm
- ❑ Quantity: 10

3 - Expanding Nut

- ❑ Quantity: 5
- ❑ Replace if damaged

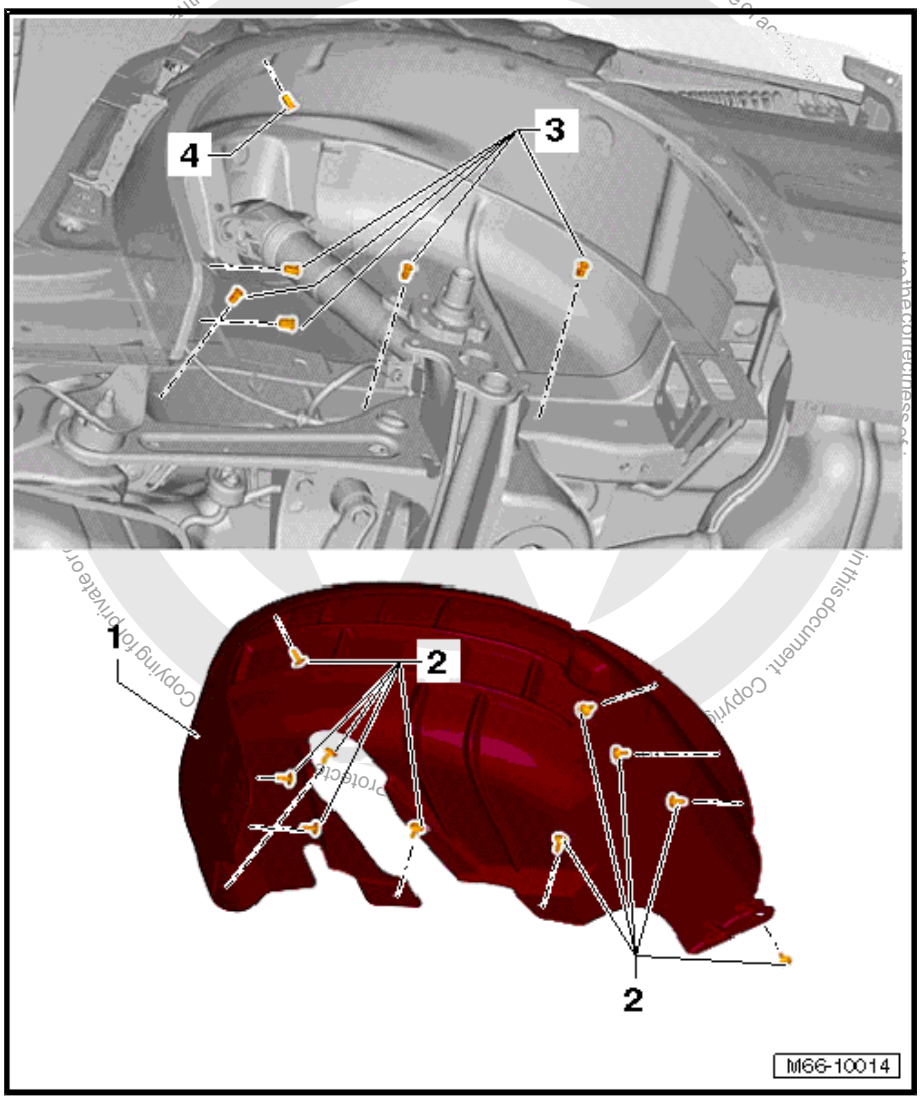
4 - Expanding Nut

- ❑ Gas-tight

WARNING

Check the gas-tight expanding nuts for damage and replace if necessary.

The expanding nuts seal off the passenger compartment from exhaust gas and must always be replaced if they are damaged.

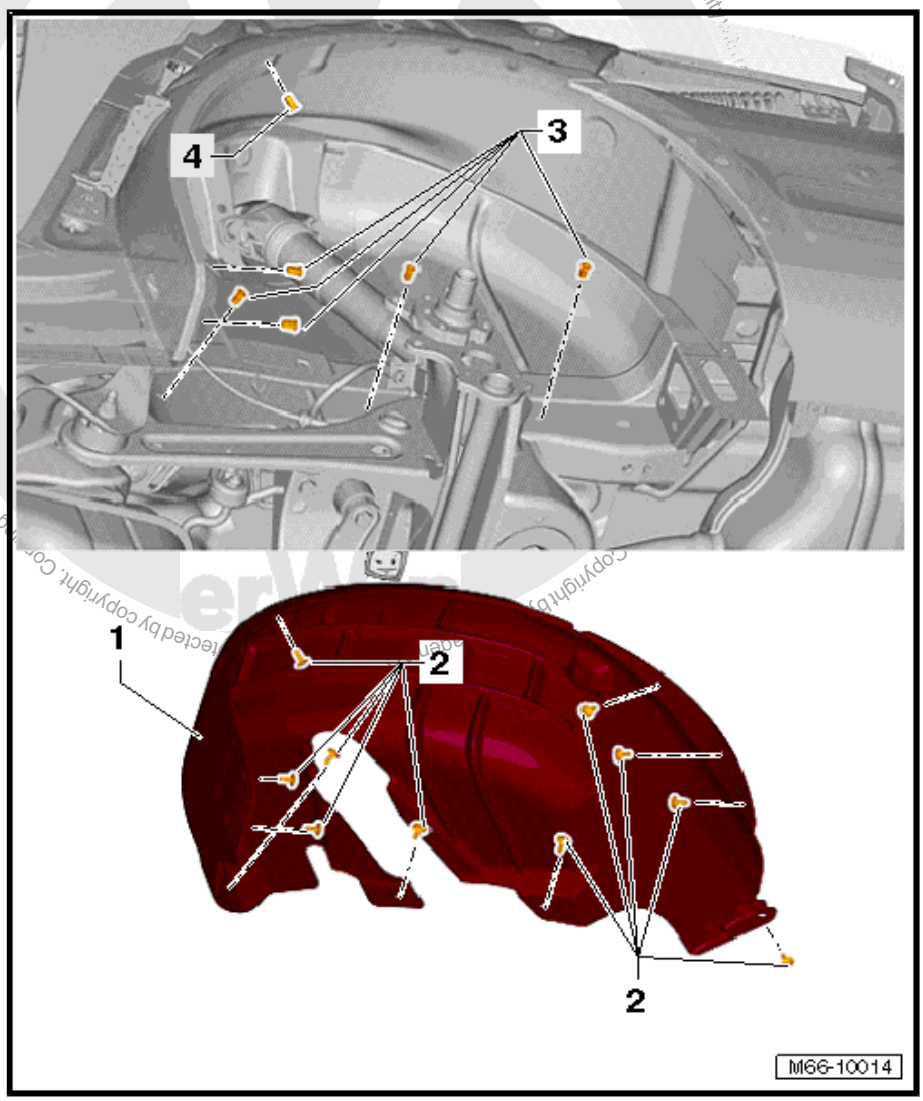


1.5 Rear Wheel Housing Liner, Removing and Installing

⇒ “1.5.1 Removing”, page 265

⇒ “1.5.2 Installing”, page 266

1.5.1 Removing



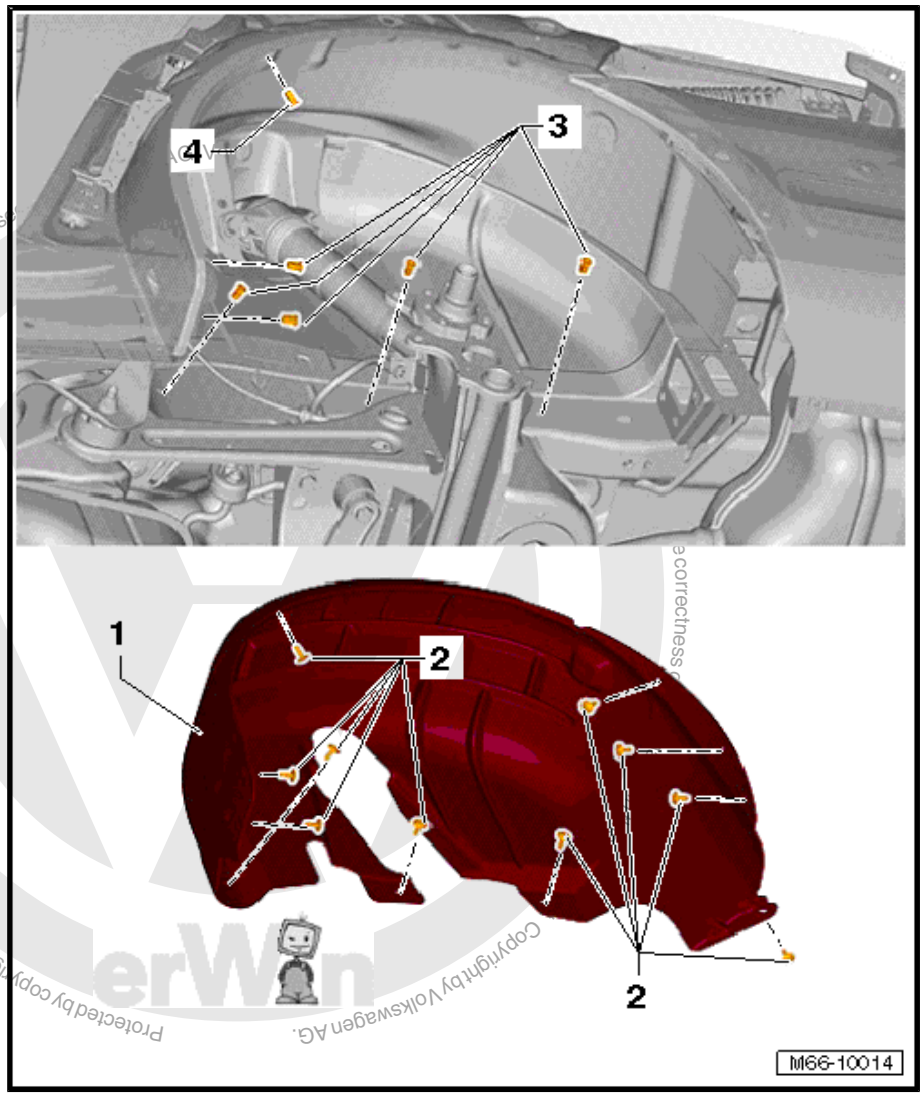
Perform the following:

– Remove the wheel. Refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; Wheel Installation Tightening Specifications .

– Remove the bolts -2- (quantity: 10).

– Remove the wheel housing liner -1- from the fender.

1.5.2 Installing



Perform the following:

Note

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

WARNING

– Install the wheel housing liner -1- into the fender.

– Install and tighten the bolts -2-.

Bolt tightening specification -2-: 2 Nm

– Install the wheel. Refer to ⇒ Suspension, Wheels, Steering; Rep. Gr. 44 ; Wheel Installation Tightening Specifications .

2 Exterior Rearview Mirror

⇒ “2.1 Tools”, page 267

⇒ “2.2 Overview - Manual Exterior Mirror”, page 267

⇒ “2.3 Overview - Exterior Rearview Mirror, Power Exterior Mirror without Exterior Rearview Mirror Turn Signal”, page 269

⇒ “2.4 Overview - Exterior Rearview Mirror, Power Exterior Mirror with Exterior Rearview Mirror Turn Signal”, page 270

⇒ “2.5 Mirror Glass, Removing and Installing”, page 271

⇒ “2.6 Trim, Removing and Installing, without Exterior Rearview Mirror Turn Signal”, page 272

⇒ “2.7 Trim with Exterior Rearview Mirror Turn Signal, Removing and Installing”, page 274

⇒ “2.8 Mirror Housing without Exterior Rearview Mirror Turn Signal, Removing and Installing”, page 276

⇒ “2.9 Mirror Housing with Exterior Rearview Mirror Turn Signal, Removing and Installing”, page 277

⇒ “2.10 Adjusting Unit with Exterior Rearview Mirror Motor, Removing and Installing”, page 279

⇒ “2.11 Assembly Part, Removing and Installing”, page 281

⇒ “2.12 Manual Exterior Rearview Mirror, Removing and Installing”, page 282

⇒ “2.13 Power Exterior Rearview Mirror, Removing and Installing”, page 286

2.1 Tools

Special tools and workshop equipment required

- Wedge Set - T10383-
- Torque Wrench 1783 - 2-10Nm - VAG1783-

2.2 Overview - Manual Exterior Mirror

Note

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

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1 - Mirror Housing

- ❑ Material: ABS
- ❑ Removing and installing. Refer to ⇒ “2.8 Mirror Housing without Exterior Rearview Mirror Turn Signal, Removing and Installing”, page 276 .

2 - Mirror Base

- ❑ Removing and installing. Refer to ⇒ “2.12 Manual Exterior Rearview Mirror, Removing and Installing”, page 282 .

3 - Trim

- ❑ Removing and installing. Refer to ⇒ “2.6 Trim, Removing and Installing, without Exterior Rearview Mirror Turn Signal”, page 272 .

4 - Mirror Glass

- ❑ Removing and installing. Refer to ⇒ “2.5 Mirror Glass, Removing and Installing”, page 271 .

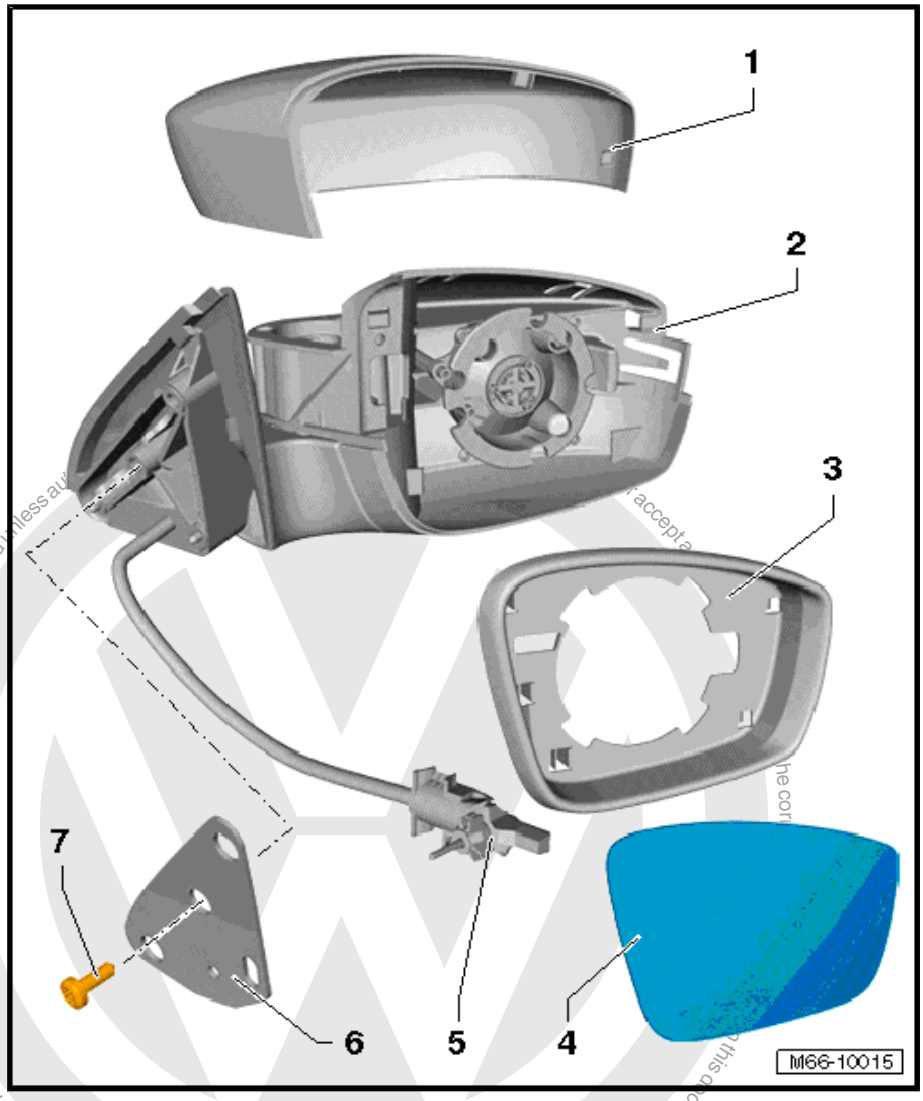
5 - Adjusting Unit

- ❑ Cannot be removed from the hinge base -2-

6 - Insulation

7 - Bolt

- ❑ Tightening specification: 12 Nm.

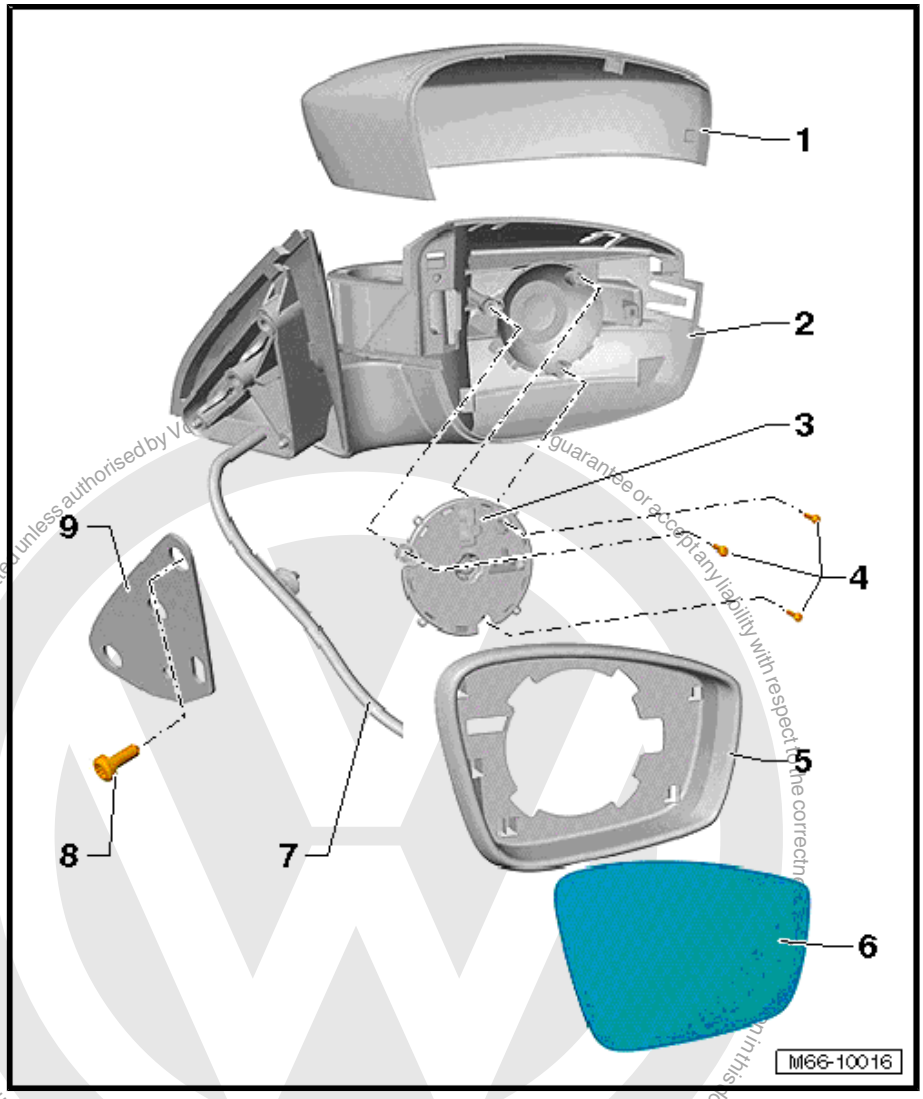


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2.3 Overview - Exterior Rearview Mirror, Power Exterior Mirror without Exterior Rearview Mirror Turn Signal

Note

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



1 - Mirror Housing

- ❑ Material: ABS
- ❑ Removing and installing. Refer to ⇒ “2.8 Mirror Housing without Exterior Rearview Mirror Turn Signal, Removing and Installing”, page 276 .

2 - Mirror Base

- ❑ Removing and installing. Refer to ⇒ “2.13 Power Exterior Rearview Mirror, Removing and Installing”, page 286 .

3 - Adjusting Unit with Exterior Rearview Mirror Motor

- ❑ Removing and installing. Refer to ⇒ “2.10 Adjusting Unit with Exterior Rearview Mirror Motor, Removing and Installing”, page 279 .

4 - Screw

- ❑ Tightening specification: 2 Nm
- ❑ Quantity: 3

5 - Trim

- ❑ Removing and installing. Refer to ⇒ “2.6 Trim, Removing and Installing, without Exterior Rearview Mirror Turn Signal”, page 272 .

6 - Mirror Glass

- ❑ Removing and installing. Refer to ⇒ “2.5 Mirror Glass, Removing and Installing”, page 271 .

7 - Wire with Connector

8 - Bolt

- ❑ Tightening specification: 12 Nm.

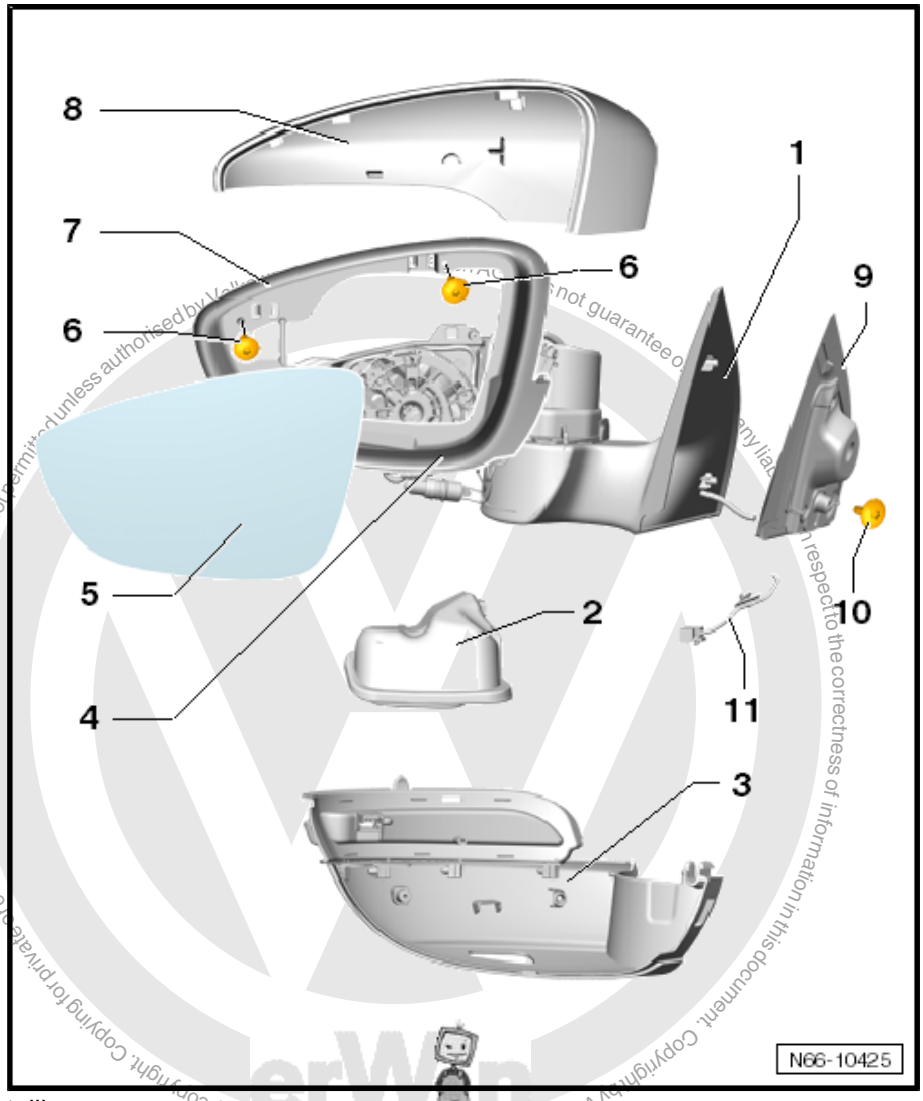
9 - Insulation

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2.4 Overview - Exterior Rearview Mirror, Power Exterior Mirror with Exterior Rearview Mirror Turn Signal

Note

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



1 - Mirror Base

- Removing and installing. Refer to ⇒ "2.13 Power Exterior Rearview Mirror, Removing and Installing", page 286 .

2 - Entry Lamp

- Not installed in all model versions
- Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; Lamps in Exterior Rearview Mirror; Exterior Rearview Mirror Entry Lamp, Removing and Installing .

3 - Assembly Part

- With exterior rearview mirror turn signal, frame and intermediate piece
- Removing and installing. Refer to ⇒ "2.11 Assembly Part, Removing and Installing", page 281 .

4 - Bulb for Entry Lamp

- Not installed in all model versions
- Removing and installing. Refer to ⇒ Electrical Equipment; Rep. Gr. 94 ; Lamps in Exterior Rearview Mirror; Exterior Rearview Mirror Entry Lamp, Removing and Installing .

5 - Mirror Glass

- Removing and installing. Refer to ⇒ "2.5 Mirror Glass, Removing and Installing", page 271 .

6 - Screw

- 1 Nm
- Quantity: 2

7 - Trim

- Removing and installing. Refer to ⇒ "2.7 Trim with Exterior Rearview Mirror Turn Signal, Removing and Installing", page 274 .

8 - Mirror Housing

- Material: ABS

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- ❑ Removing and installing. Refer to
  ⇒ “2.9 Mirror Housing with Exterior Rearview Mirror Turn Signal, Removing and Installing”, page 277 .

9 - Insulation

10 - Bolt

- ❑ 12 Nm

11 - Connector

2.5 Mirror Glass, Removing and Installing

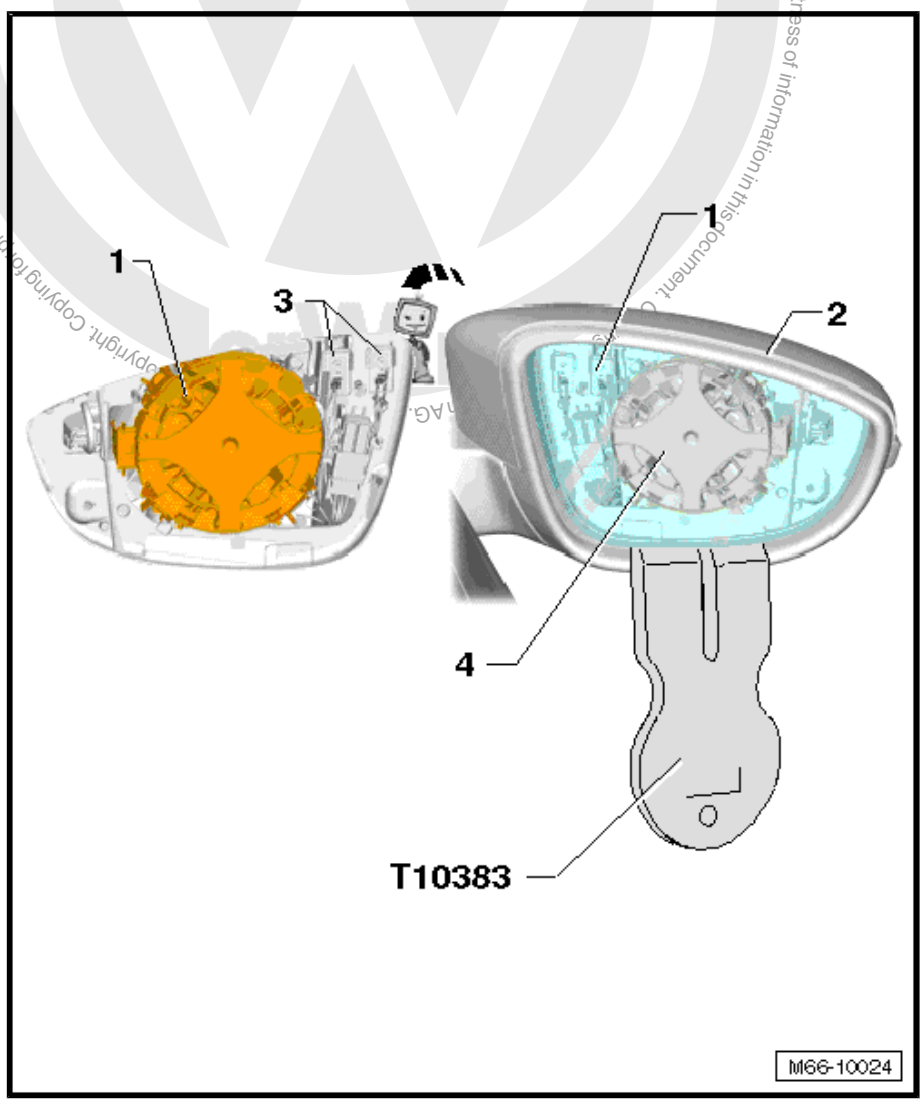
⇒ “2.5.1 Removing”, page 271

⇒ “2.5.2 Installing”, page 272

2.5.1 Removing

Note

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



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Perform the following:

WARNING

Wear protective eyewear and safety gloves when working.

– Protect housing edge -2- from damage to paintwork, for example with fabric-reinforced adhesive tape.
– Press the mirror glass -1- into the mirror housing at top -2-.
– Press the mirror glass -1- from the mirror adjusting unit using the Wedge Set - T10383- -4-.
– Move the mirror glass -1- to the side -arrow- and disconnect the connector -3- for the mirror heating from the back of the mirror -1-.

2.5.2 Installing

Perform the following:

– Connect the connectors to the mirror glass.
– Press the center of the mirror glass onto the adjusting unit in the housing.

The mirror glass will engage with a click.

• Perform a function test.

2.6 Trim, Removing and Installing, without Exterior Rearview Mirror Turn Signal

⇒ “2.6.1 Removing”, page 272

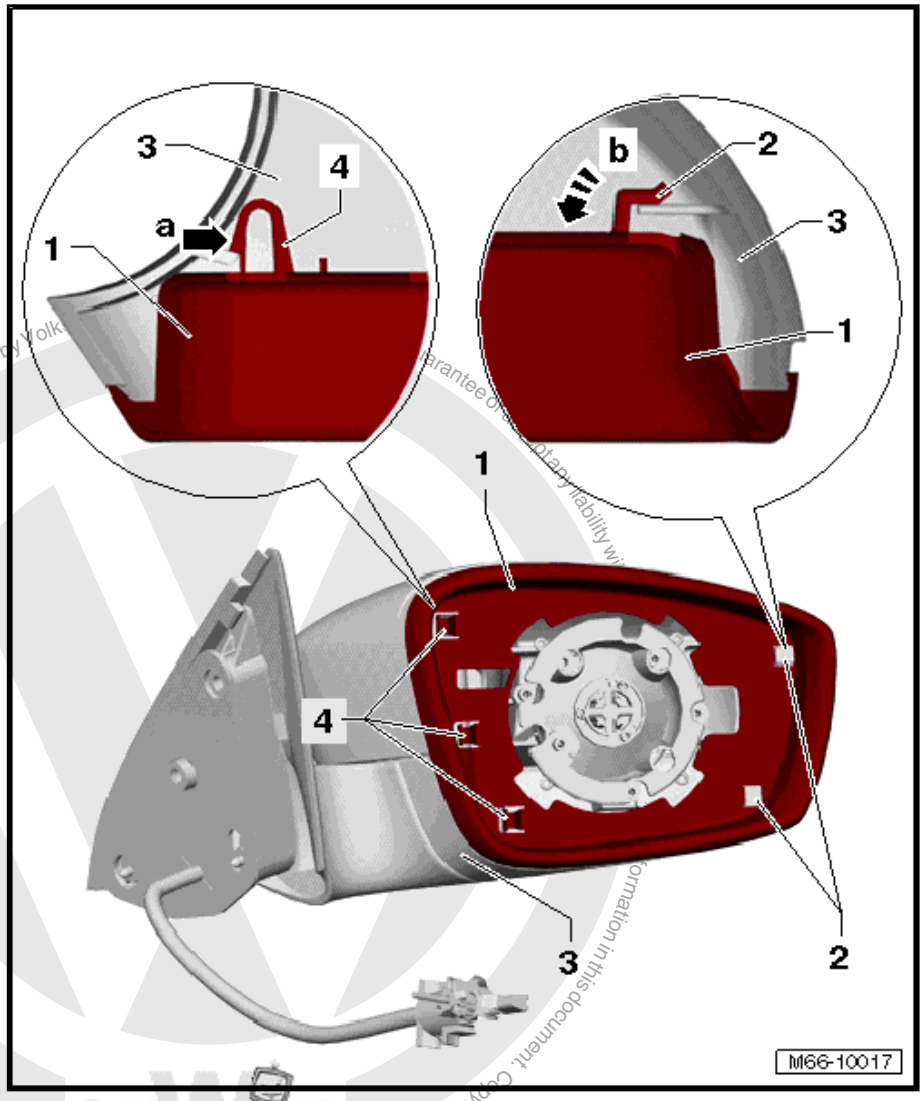
⇒ “2.6.2 Installing”, page 274

2.6.1 Removing

Note

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

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Perform the following:

– Remove the mirror glass. Refer to
⇒ “2.5 Mirror Glass, Removing and Installing”, page 271 .

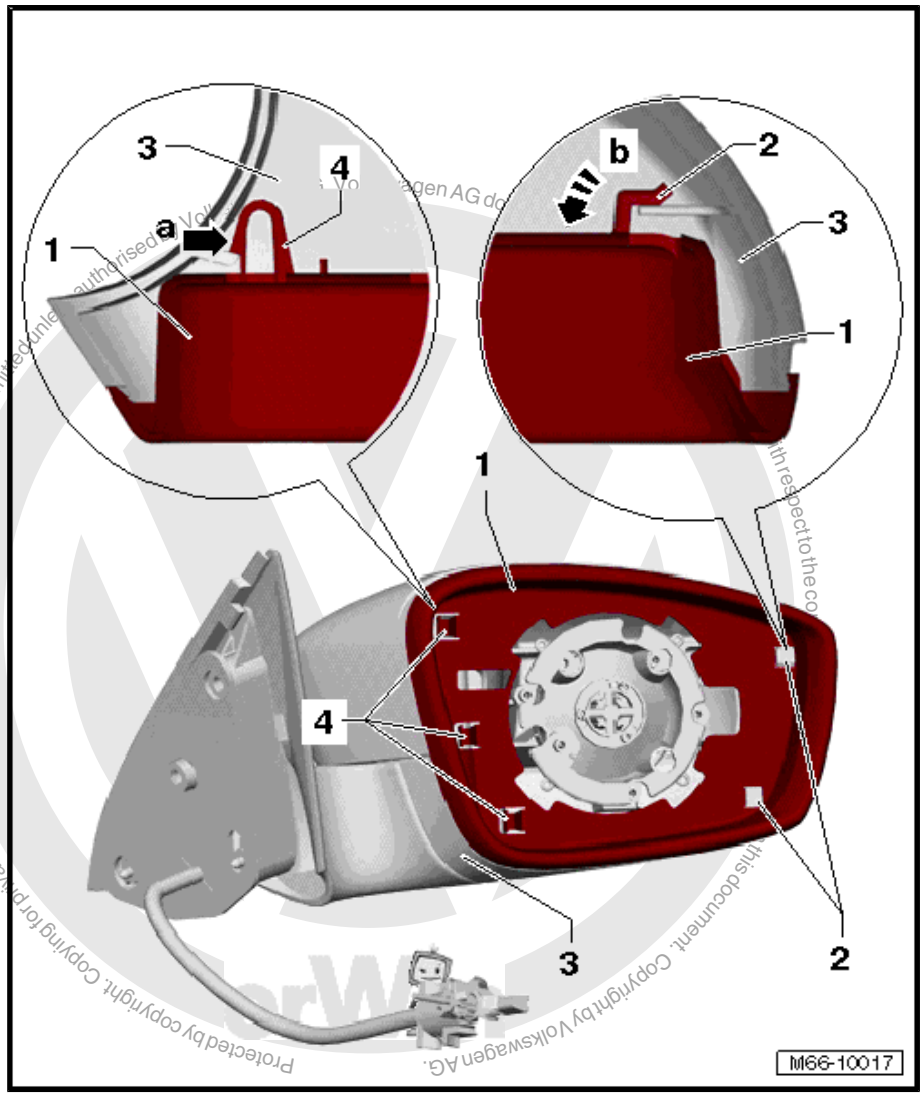
– Release the hook -4- on the trim -1- -arrow a-.

– Remove the trim -1- by the tabs -2- in direction of -arrow b-.

– Remove the trim -1- from the mirror base -3-.

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2.6.2 Installing



Perform the following:

– Install the trim -1- behind the tabs -2- on the mirror base-3-.

– Press the trim -1- onto the mirror base -3- until the hooks-4- click into place.

– Install the mirror glass. Refer to ⇒ “2.5 Mirror Glass, Removing and Installing”, page 271 .

2.7 Trim with Exterior Rearview Mirror Turn Signal, Removing and Installing

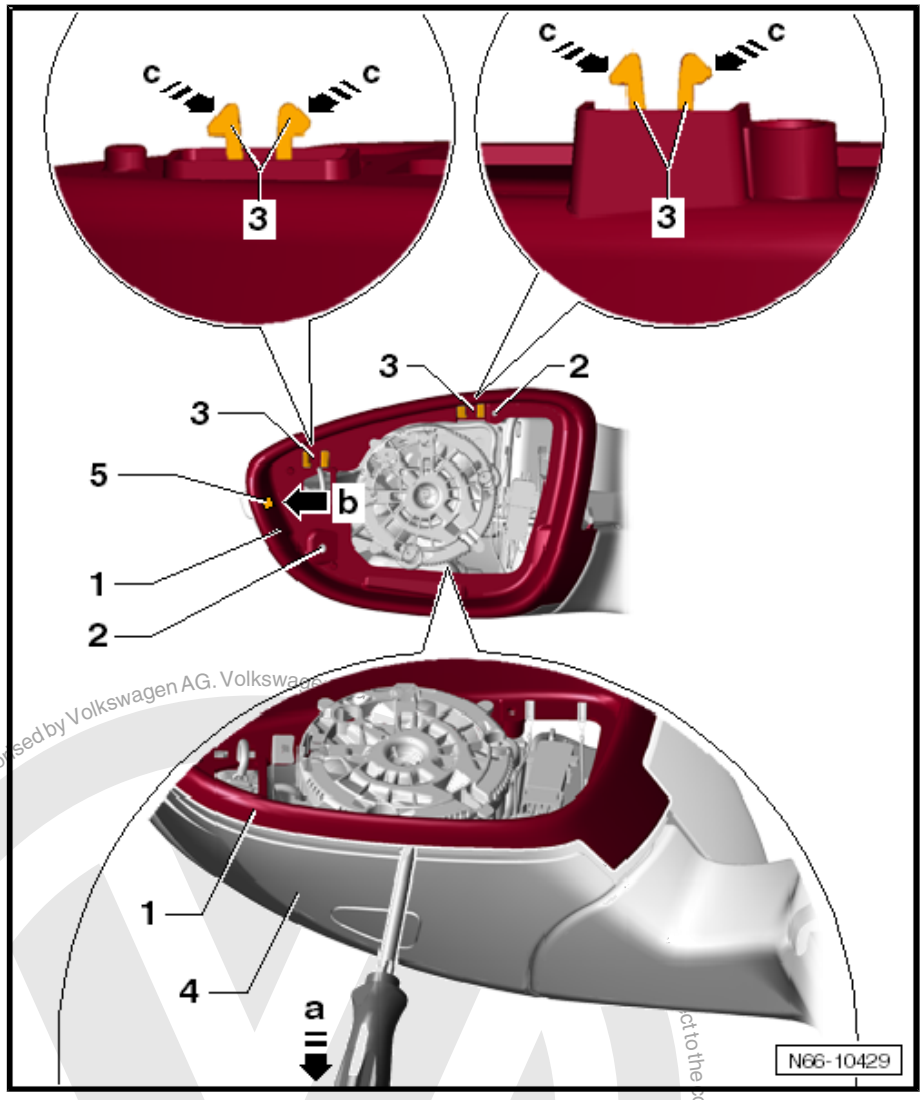
Note

Removing and installing is described only for the left trim. Removing and installing right trim is derived accordingly from this.

Removing

Note

If retaining hook -5- breaks at the turn signal, a new turn signal with housing part must be installed.



- Remove the mirror glass. Refer to ⇒ “2.5 Mirror Glass, Removing and Installing”, page 271 .
- Remove the bolts -2-.
- Carefully separate the trim -1- and the mirror base plate -4- on the underside in direction of -arrow a-.
- Carefully remove the trim above the turn signal hooks -5- -arrow b-.
- Loosen the hooks -3- from the mirror base with a screwdriver in direction of -arrows c-.
- Remove the trim -1-.

Installing

Install in reverse order of removal.

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2.8 Mirror Housing without Exterior Rear-view Mirror Turn Signal, Removing and Installing

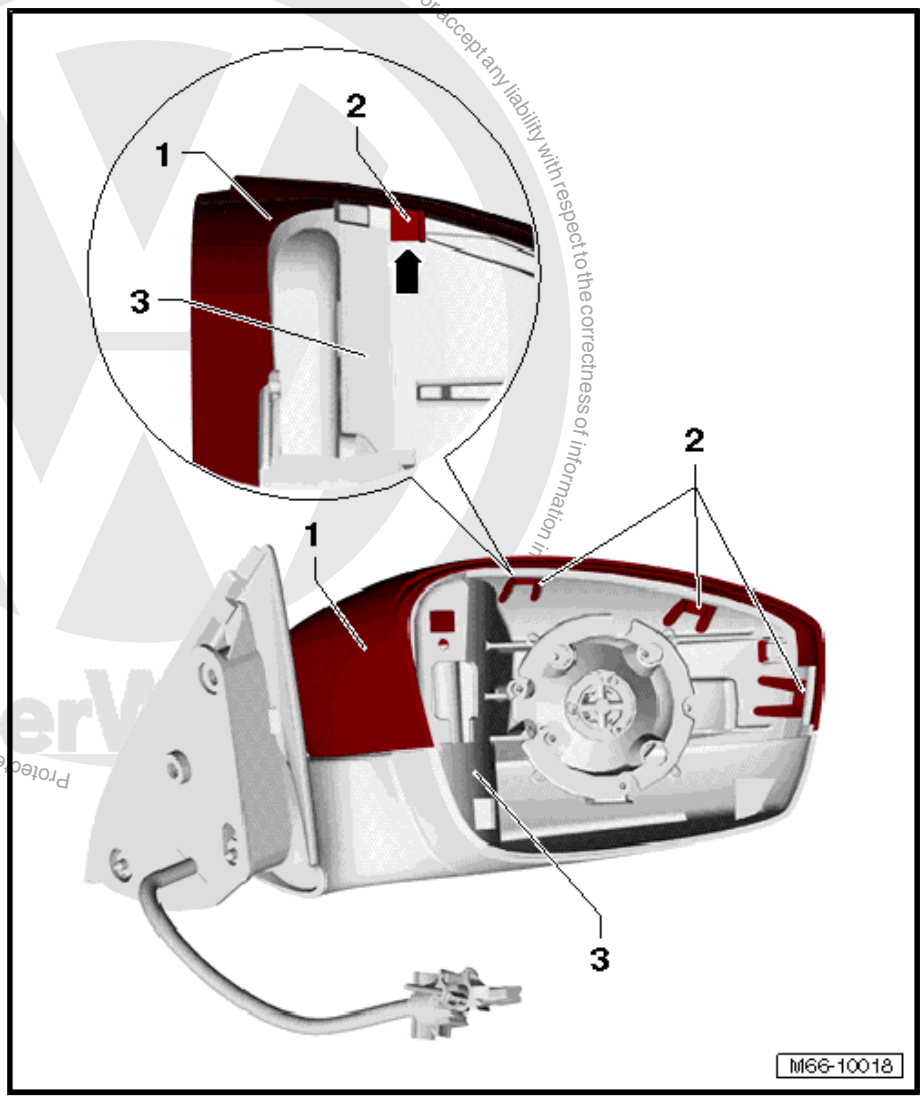
⇒ “2.8.1 Removing”, page 276

⇒ “2.8.2 Installing”, page 277

2.8.1 Removing

Note

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



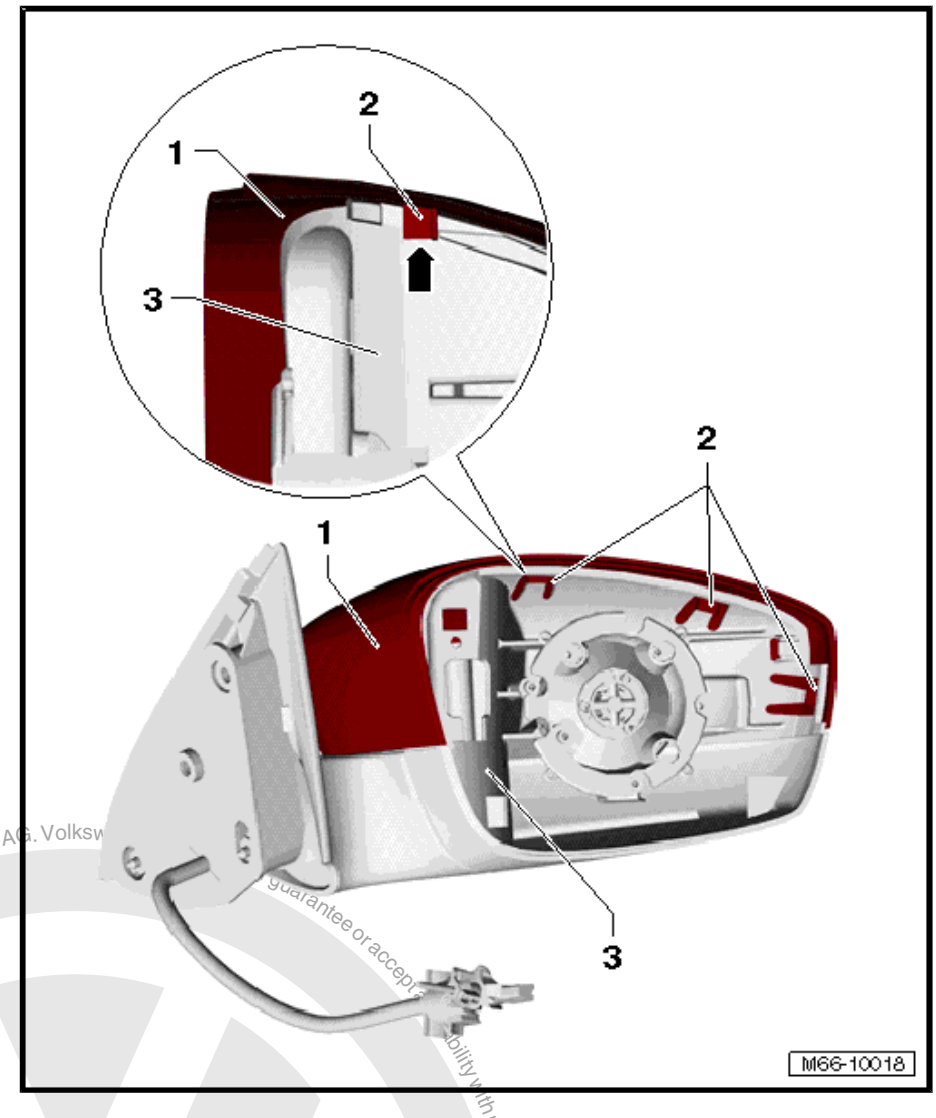
Perform the following:

– Remove the mirror glass. Refer to ⇒ “2.5 Mirror Glass, Removing and Installing”, page 271 .

– Remove the trim. Refer to ⇒ “2.6 Trim, Removing and Installing, without Exterior Rear-view Mirror Turn Signal”, page 272 .

– Unhook the hooks -2- on the mirror housing -1- -arrow-.
– Remove the mirror housing -1- from the mirror base -3-.

2.8.2 Installing



Perform the following:

– Press the mirror housing -1- onto the mirror base -3- until the hooks -2- click into place.
– Install the trim. Refer to
⇒ “2.6 Trim, Removing and Installing, without Exterior Rearview Mirror Turn Signal”, page 272 .
– Install the mirror glass. Refer to
⇒ “2.5 Mirror Glass, Removing and Installing”, page 271 .

2.9 Mirror Housing with Exterior Rearview Mirror Turn Signal, Removing and Installing

Special tools and workshop equipment required

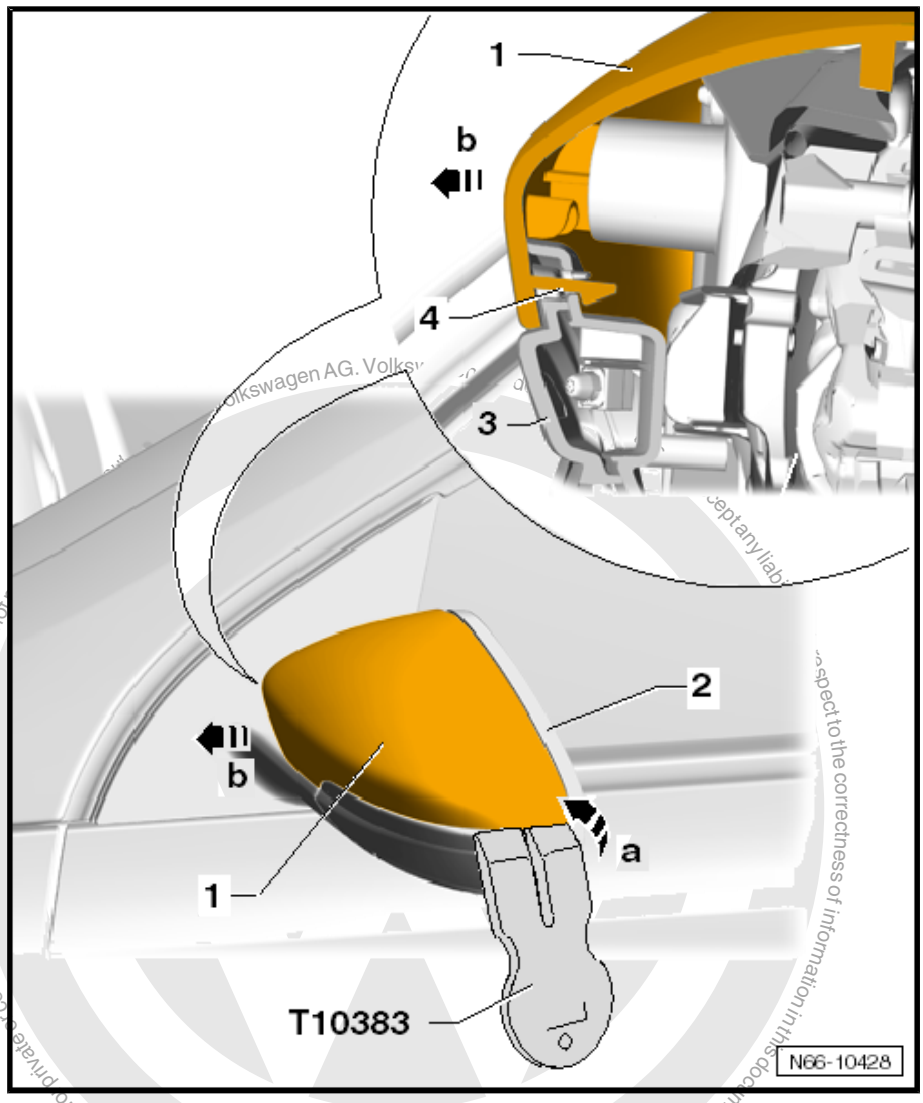
♦ Wedge Set - T10383-

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Note

The following describes removing and installing the left mirror housing. Removing and installing right mirror housing is derived accordingly from this.

Removing



– Insert the Wedge Set - T10383- between the mirror housing -1- and turn signal -3-.

– Turn the wedge in the direction of the -arrow a- so that the mirror housing -1- is pulled out from under the trim -2- and the hooks -4- are disengaged.

– Then remove the mirror housing -1- toward the front from the mirror base in direction of -arrow b-.

Installing

– Position the mirror housing -1- and push the mirror housing down into the hooks -4-. The catches audibly latch.

2.10 Adjusting Unit with Exterior Rearview Mirror Motor, Removing and Installing

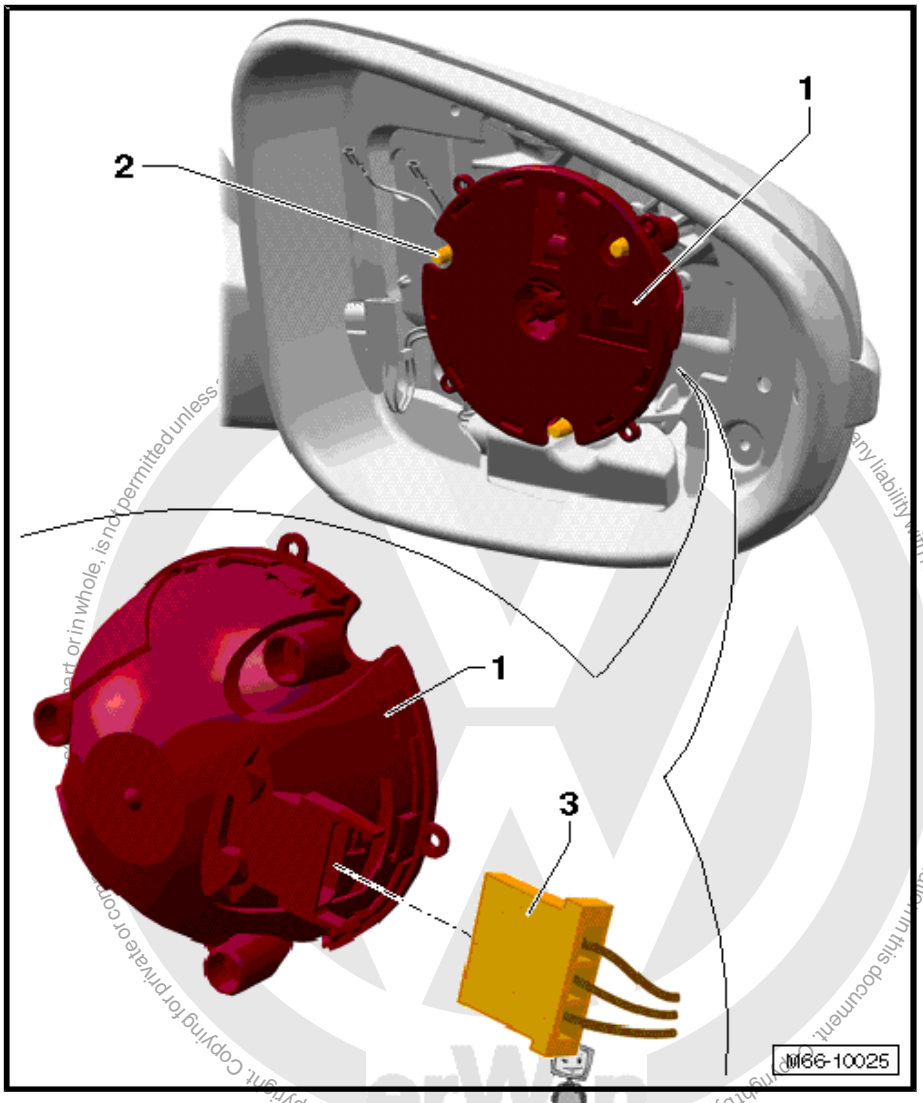
⇒ “2.10.1 Removing”, page 279

⇒ “2.10.2 Installing”, page 280

2.10.1 Removing

Note

The following describes removing and installing the right adjusting unit and motor. Removing and installing left adjusting unit and motor is identical.



Perform the following:

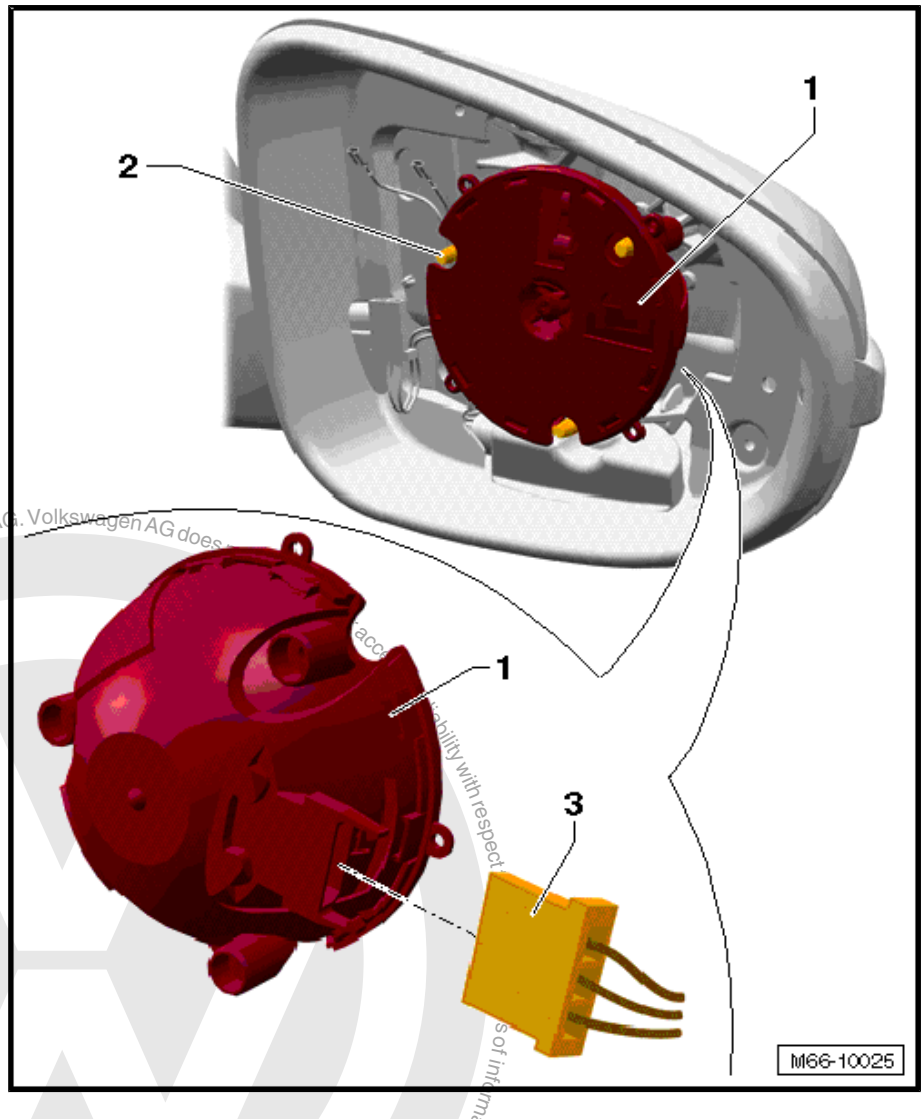
– Remove the mirror glass. Refer to ⇒ “2.5 Mirror Glass, Removing and Installing”, page 271 .

– Remove the bolts -2- (quantity: 3) and remove the adjuster unit and motor -1- from the mirror base.

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– Move the adjuster unit -1- to the side and disconnect the connector -3-.

2.10.2 Installing



Perform the following:

– Connect the connector -3- to the adjuster unit -1-.

– Mount the adjuster unit with the motor -1- on the mirror base and tighten the screws -2- (quantity: 3).

Bolt tightening specification -2-: 2 Nm

– Install the mirror glass. Refer to ⇒ “2.5 Mirror Glass, Removing and Installing”, page 271 .

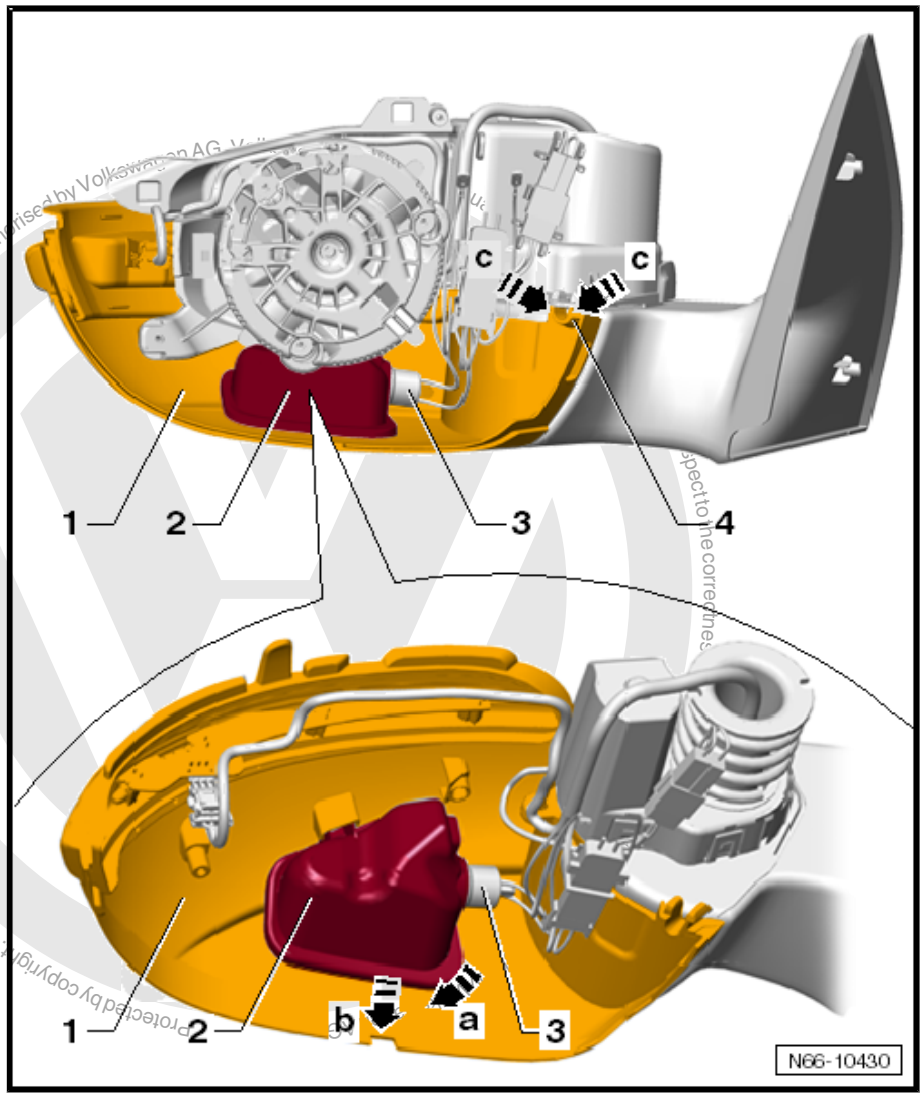
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2.11 Assembly Part, Removing and Installing

Note

- *The following describes removing and installing the left assembly part. Removing and installing the right assembly part is identical.*
- *The assembly part and exterior mirror turn signals are one component.*
- *LEDs with a long service life are installed in the exterior rearview mirror turn signals instead of standard bulbs.*
- *Because of that, it is not necessary to replace bulbs. If damaged, the entire exterior rearview mirror turn signal must be replaced.*

Removing



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Remove the Assembly Part with the Exterior Rearview Mirror Turn Signal.

– Remove the mirror glass. Refer to
⇒ “2.5 Mirror Glass, Removing and Installing”, page 271 .

– Remove the trim. Refer to
⇒ “2.7 Trim with Exterior Rearview Mirror Turn Signal, Removing and Installing”, page 274 .
– Remove mirror housing
⇒ “2.9 Mirror Housing with Exterior Rearview Mirror Turn Signal, Removing and Installing”, page 277 .
– Disconnect the connector on the turn signal in the exterior rearview mirror.
– Release the hooks -4- in direction of -arrows c-.
– Remove the assembly part -1- from the mirror base plate.

Remove the Entry Lamp

The entry lamps can only be removed after the assembly part is removed.

– Slightly raise the entry lamp -2- in direction of -arrow a- and then remove it from the assembly part -1- in direction of -arrow b-.

Installing

Install in reverse order of removal.

2.12 Manual Exterior Rearview Mirror, Removing and Installing

⇒ “2.12.1 Removing”, page 282

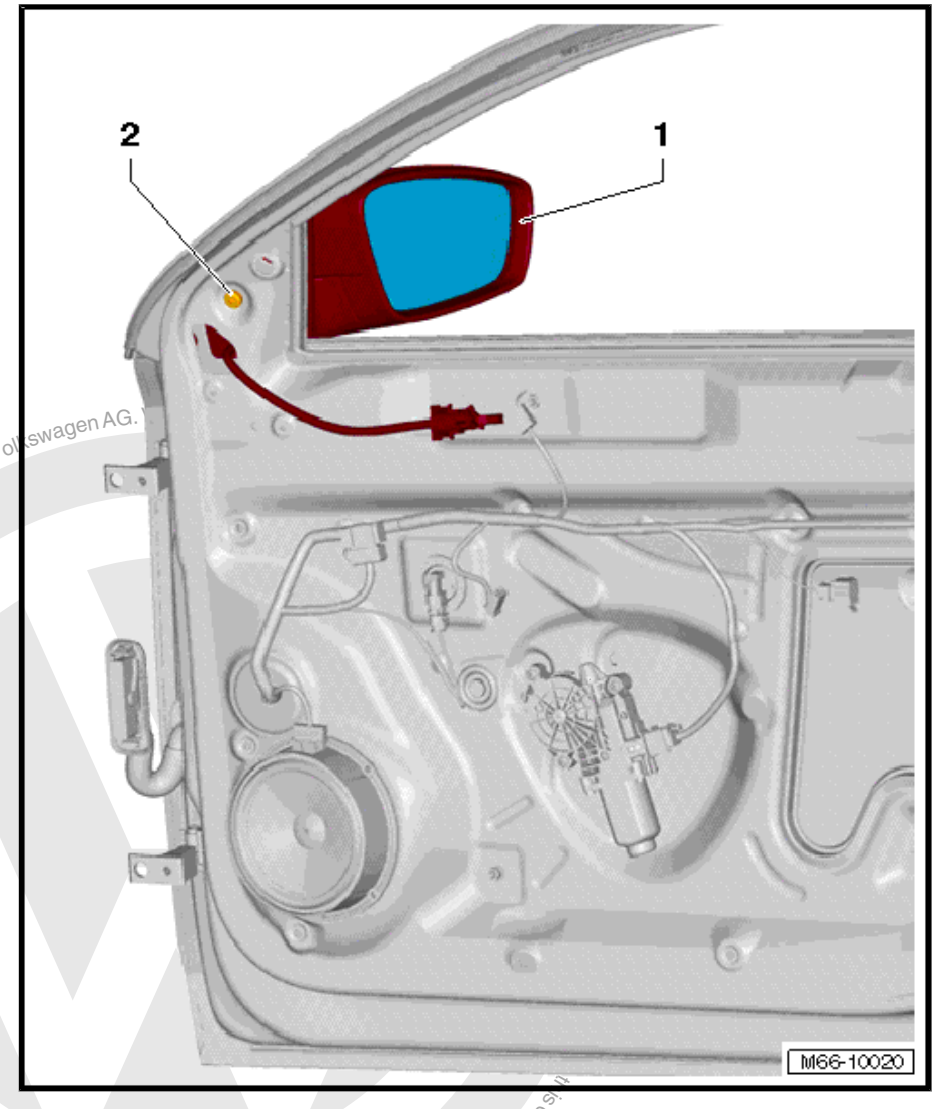
⇒ “2.12.2 Installing”, page 285

2.12.1 Removing

Note

The following describes removing and installing the right exterior rearview mirror. Removing and installing the left exterior rearview mirror is identical.

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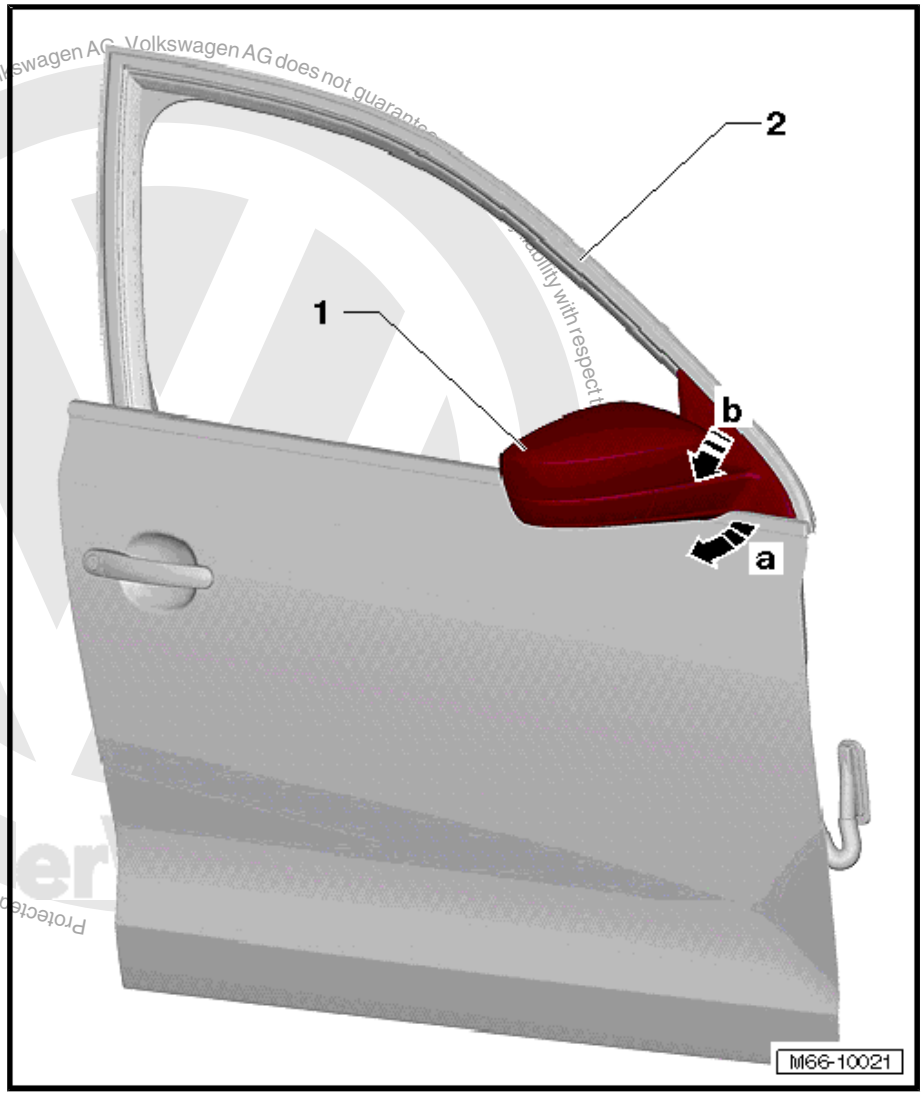
Perform the following:

– Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

– Disconnect the connector from the mirror heating (if equipped).

– Remove the screw -2- from the exterior mirror -1-.

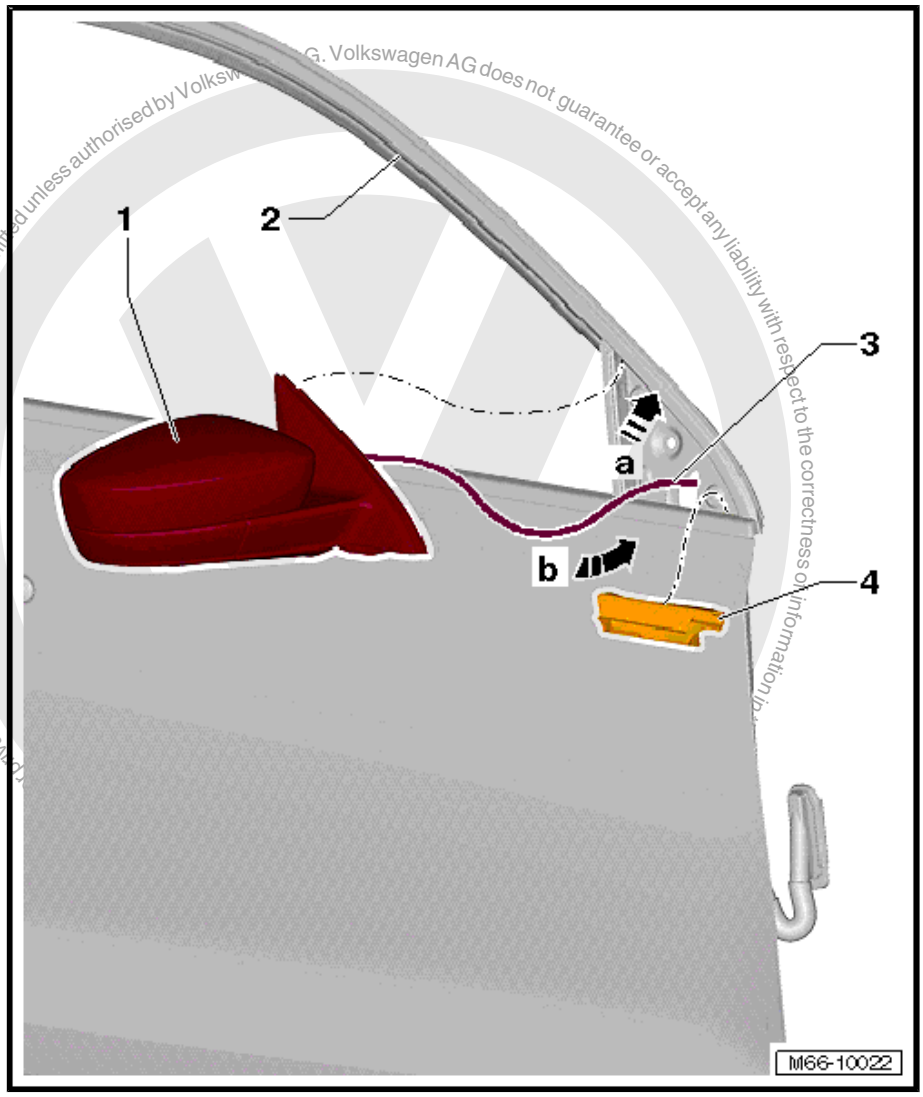
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– Move the exterior mirror -1- at the bottom slightly from the door in direction of -arrow a- and remove it from the window guide -2- in direction of -arrow b-.
– Guide the cables for the exterior mirror through the opening in the door and remove the exterior mirror -1-.

2.12.2 Installing



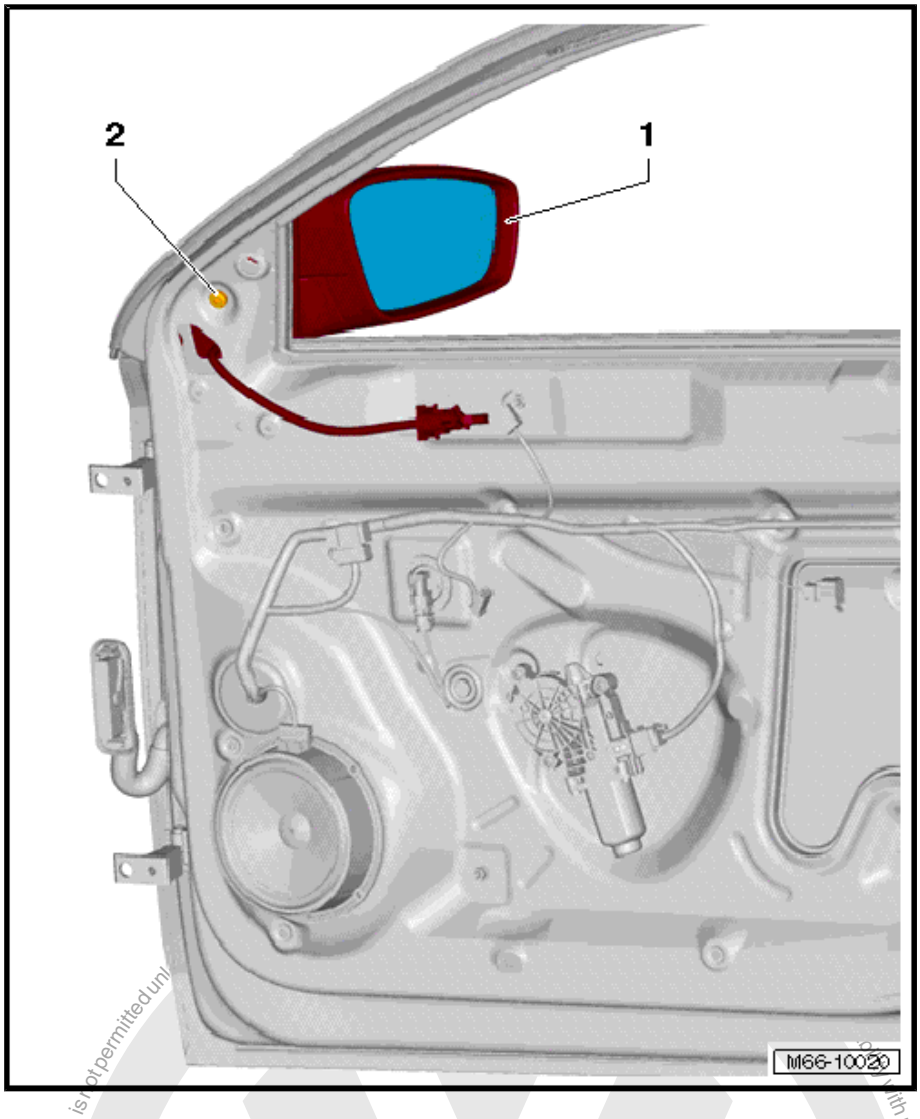
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Perform the following:

– Make sure the foam piece -4- fits correctly inside the door.

– Guide the cables -3- through the opening in the door.

– Push the exterior rearview mirror -1- into the window guide -2- from underneath in direction of -arrow a- and attach it at the bottom of the door in direction of -arrow b-.



– Install the bolt -2- for the exterior rearview mirror -1- and tighten it.

Tightening specification for the bolts -2-: 8 Nm

– Connect the connector for the mirror heating (if equipped).
– Install the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

2.13 Power Exterior Rearview Mirror, Removing and Installing

⇒ “2.13.1 Removing”, page 286

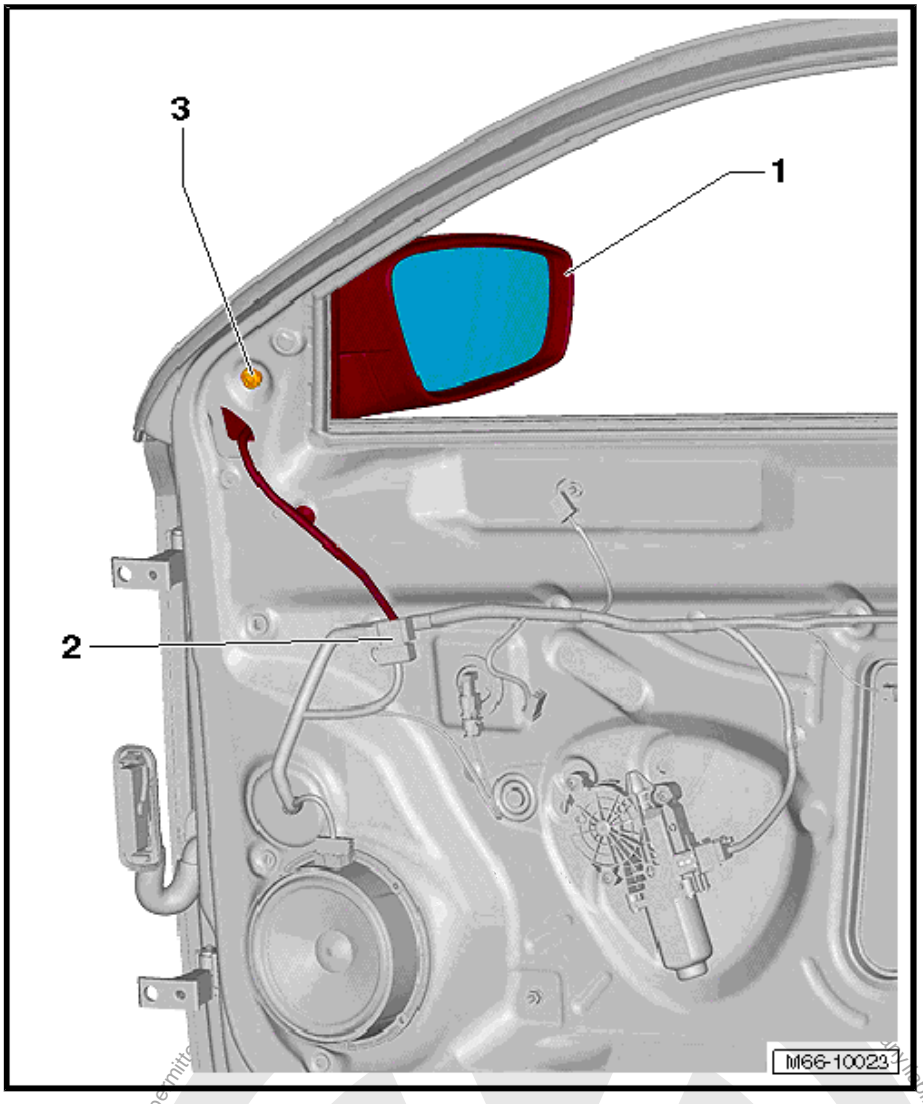
⇒ “2.13.2 Installing”, page 288

2.13.1 Removing

Note

The following describes removing and installing the right exterior rearview mirror. Removing and installing the left exterior rearview mirror is identical.

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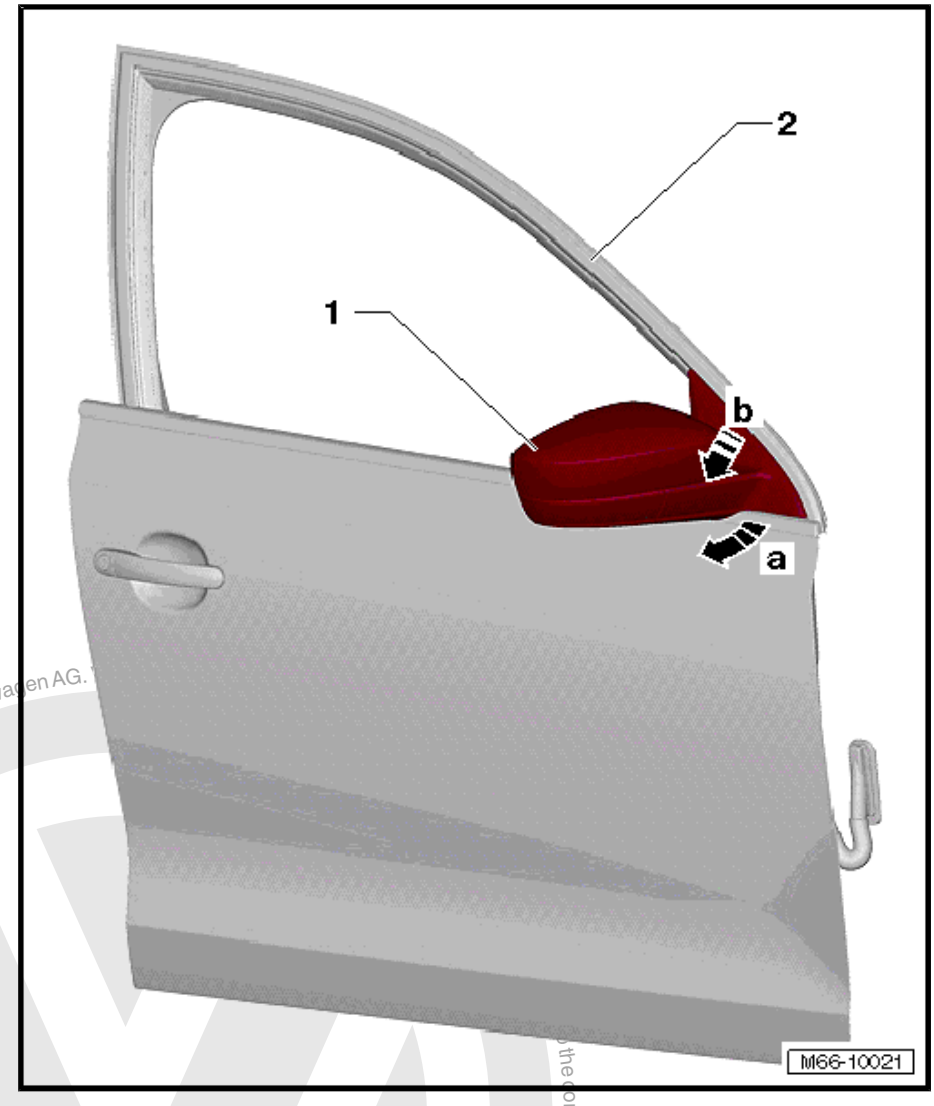
Perform the following:

– Remove the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

– Disconnect the connector -2- from the exterior mirror -1-.

– Remove the screw -3- for the exterior rearview mirror -1-.

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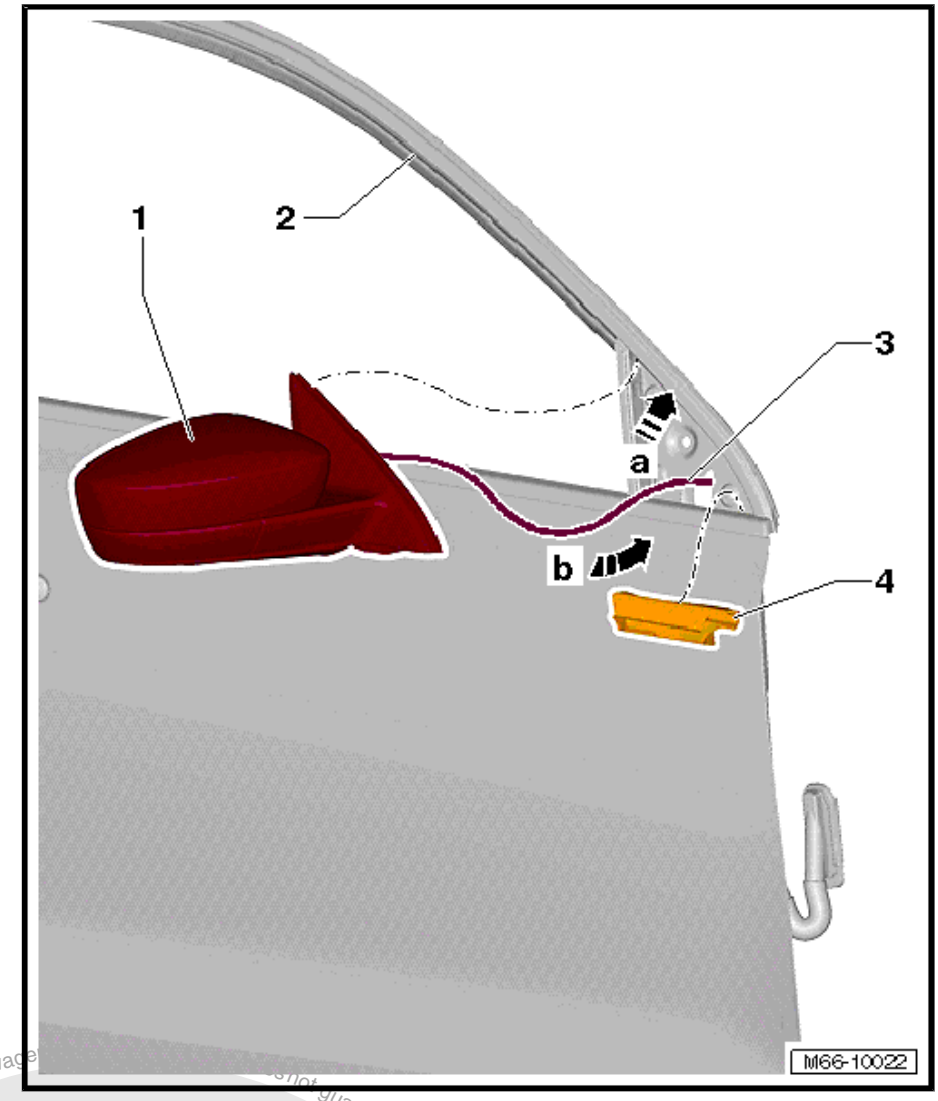
– Move the exterior mirror -1- at the bottom slightly from the door -arrow a- and remove it from the window guide -2- -arrow b-.
– Guide the wire through the opening in the door and remove the exterior rearview mirror -1-.

2.13.2 Installing

Note

The following describes removing and installing the right exterior rearview mirror. Removing and installing the left exterior rearview mirror is identical.

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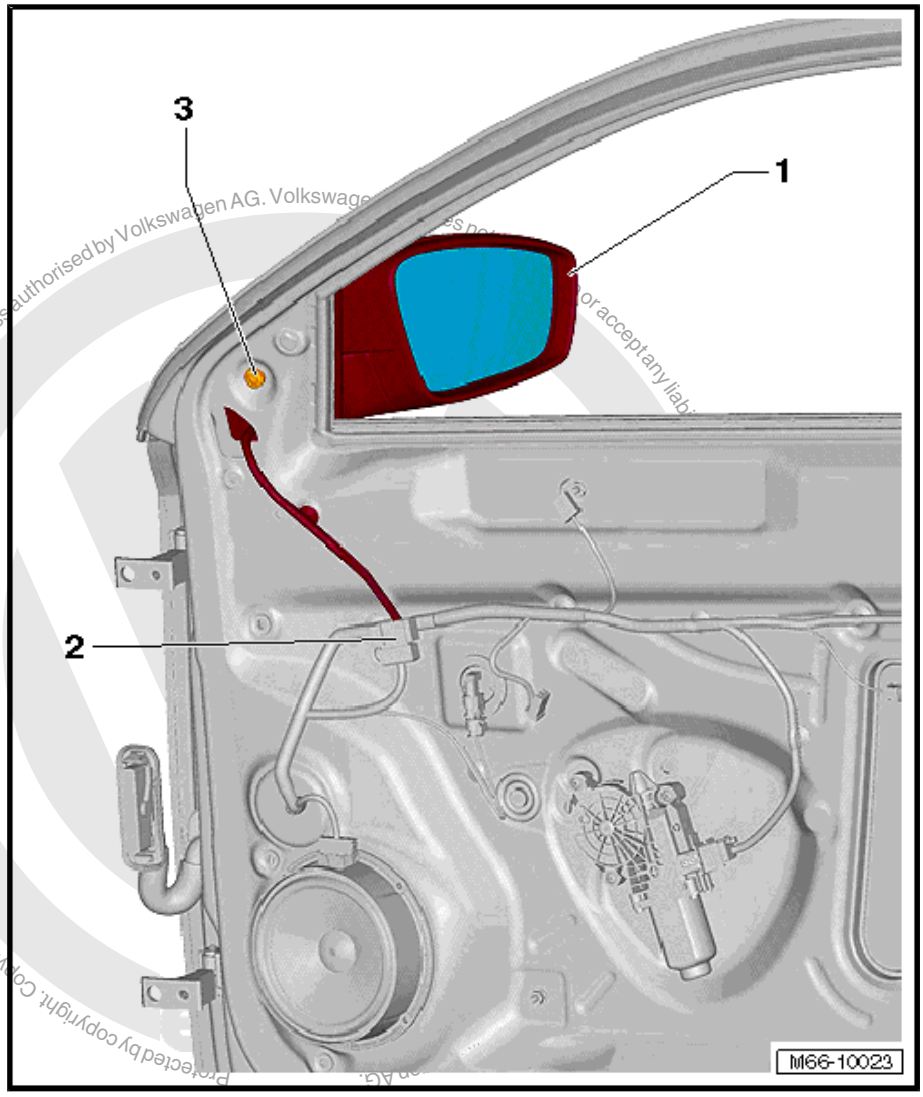
Perform the following:

– Make sure the foam piece -4- fits correctly inside the door.

– Guide the exterior rearview mirror wire -3- through the opening in the door.

– Push the exterior rearview mirror -1- into the window guide -2- from underneath in direction of -arrow a- and attach it at the bottom of the door in direction of -arrow b-.

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– Install the screw -3- into the exterior rearview mirror -1- and tighten it.

Bolt tightening specification -3-: 8 Nm

– Connect the connector -2- to the exterior rearview mirror -1-.
– Install the front door trim panel. Refer to ⇒ Body Interior; Rep. Gr. 70 ; Door Trim Panels .

3 Radiator Grille

⇒ “3.1 Tools”, page 291

⇒ “3.2 Radiator Grille, Removing and Installing”, page 291

⇒ “3.3 Emblem, Removing and Installing”, page 294

3.1 Tools

Special tools and workshop equipment required

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

3.2 Radiator Grille, Removing and Installing

⇒ “3.2.1 Removing”, page 291

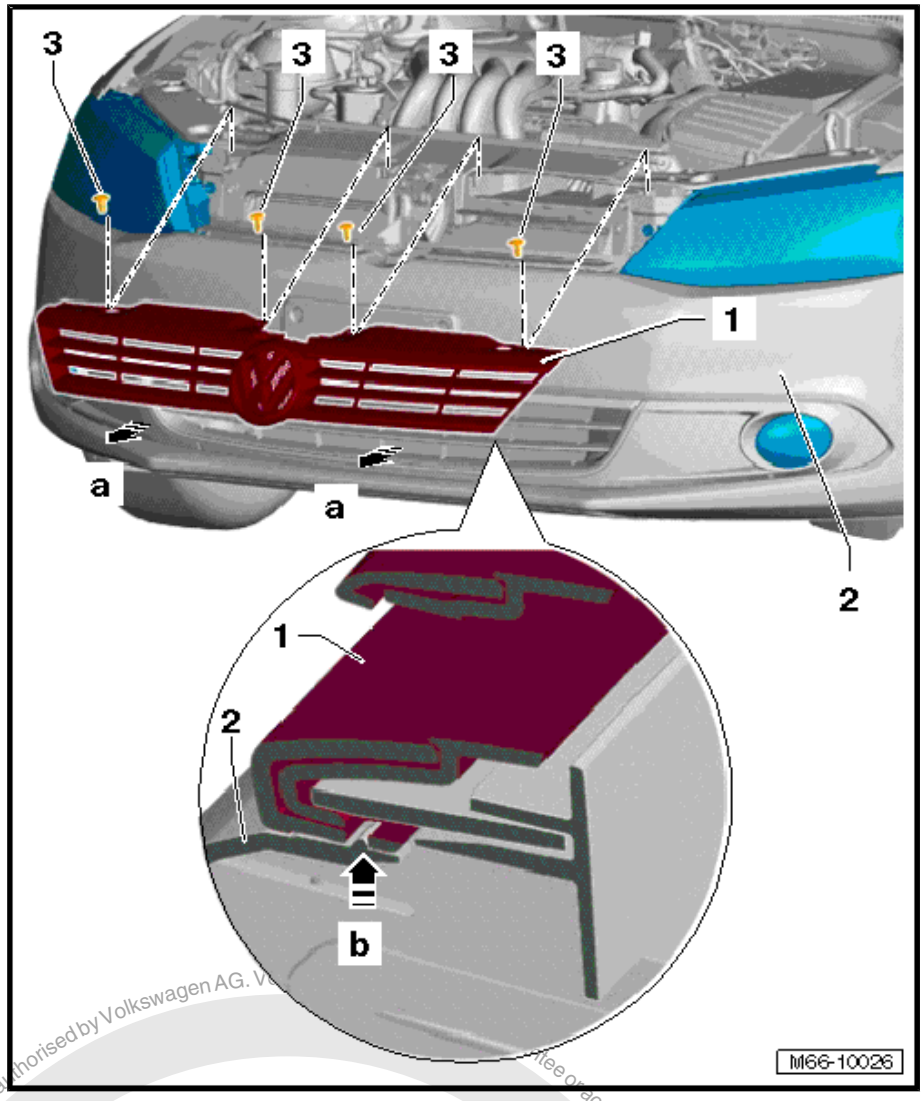
⇒ “3.2.2 Installing”, page 293

3.2.1 Removing

Note

- *This applies to all models.*
- *It may look different on different models.*

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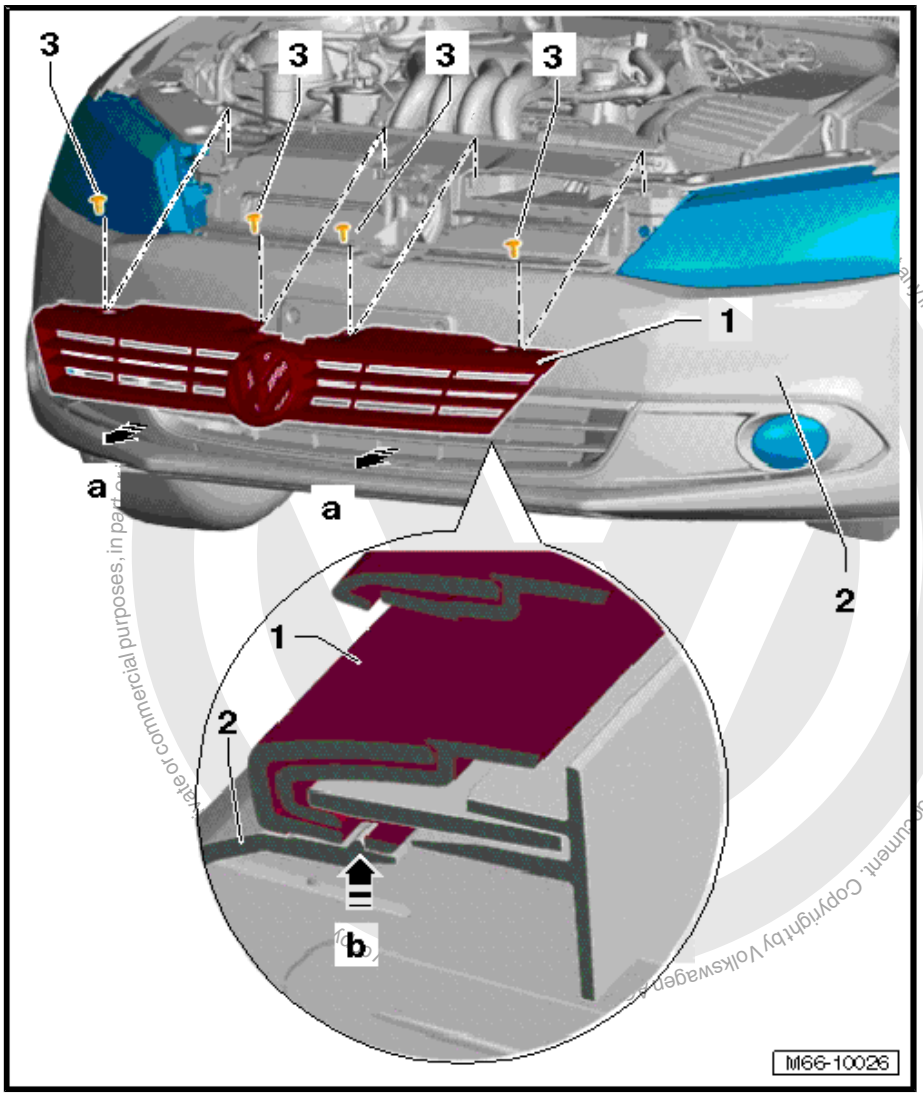
Perform the following:

– Remove the bolts -3-.

– Remove the radiator grille -1- from the front bumper cover -2- in direction of in direction of -arrow a-

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3.2.2 Installing



Perform the following:

– Install the radiator grille -1- into the front bumper cover -2-.

– Push the radiator grille -1- into the front bumper cover -2- in direction of -arrow b- using light pressure.

Note

Align the radiator grille -1- if necessary.

– Tighten the bolts -3-.

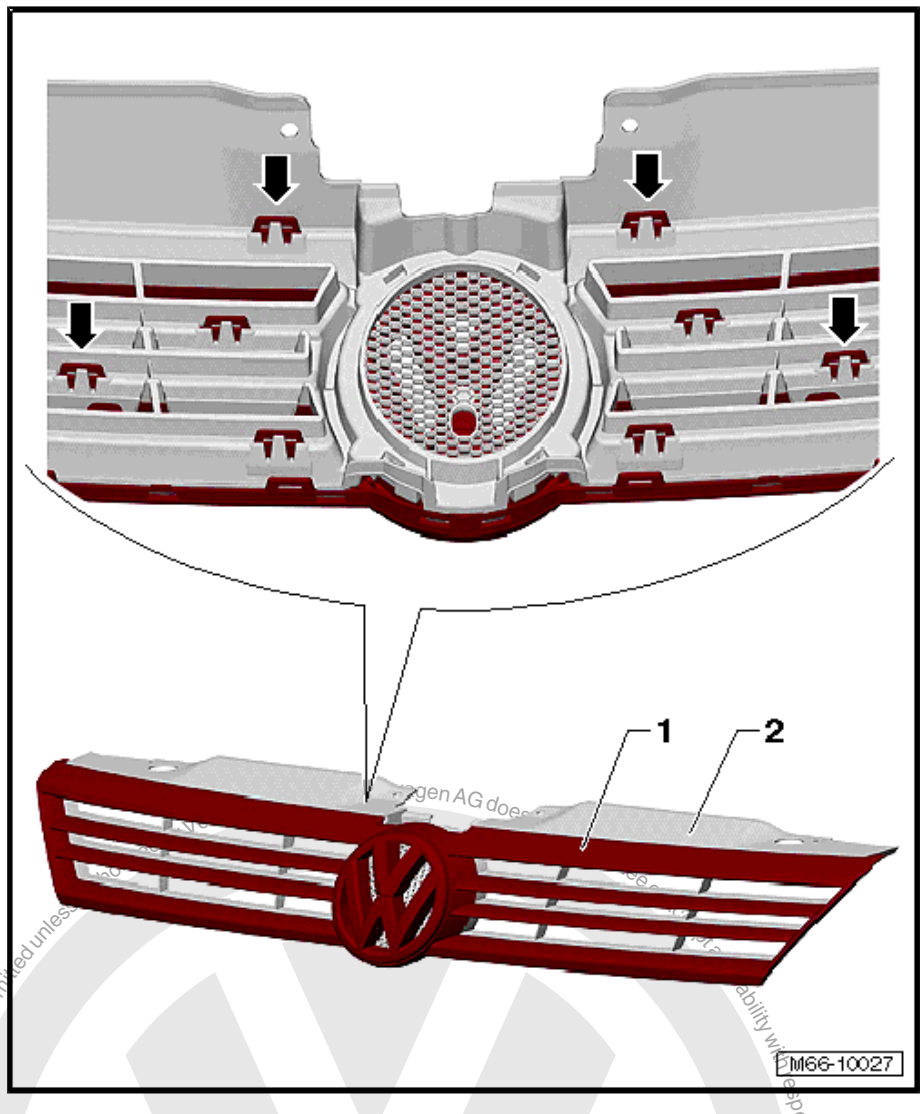
Tightening specification for the bolts -3-: 2 Nm

3.3 Emblem, Removing and Installing

⇒ “3.3.1 Removing”, page 294

⇒ “3.3.2 Installing”, page 296

3.3.1 Removing



Perform the following:

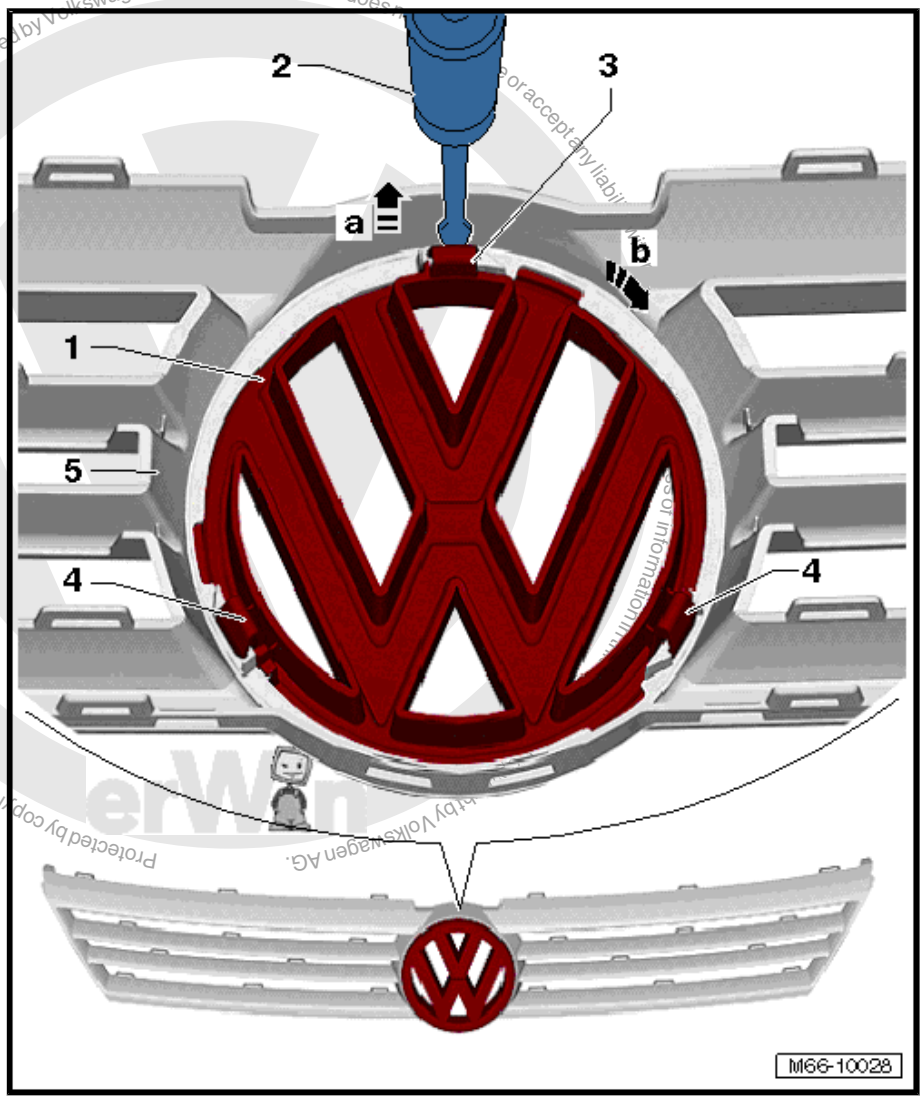
– Remove the radiator grille. Refer to ⇒ “3.2 Radiator Grille, Removing and Installing”, page 291 .

– Unhook all the hooks -arrows- on the emblem -1-.

– Remove the emblem -1- from its holder -2-.

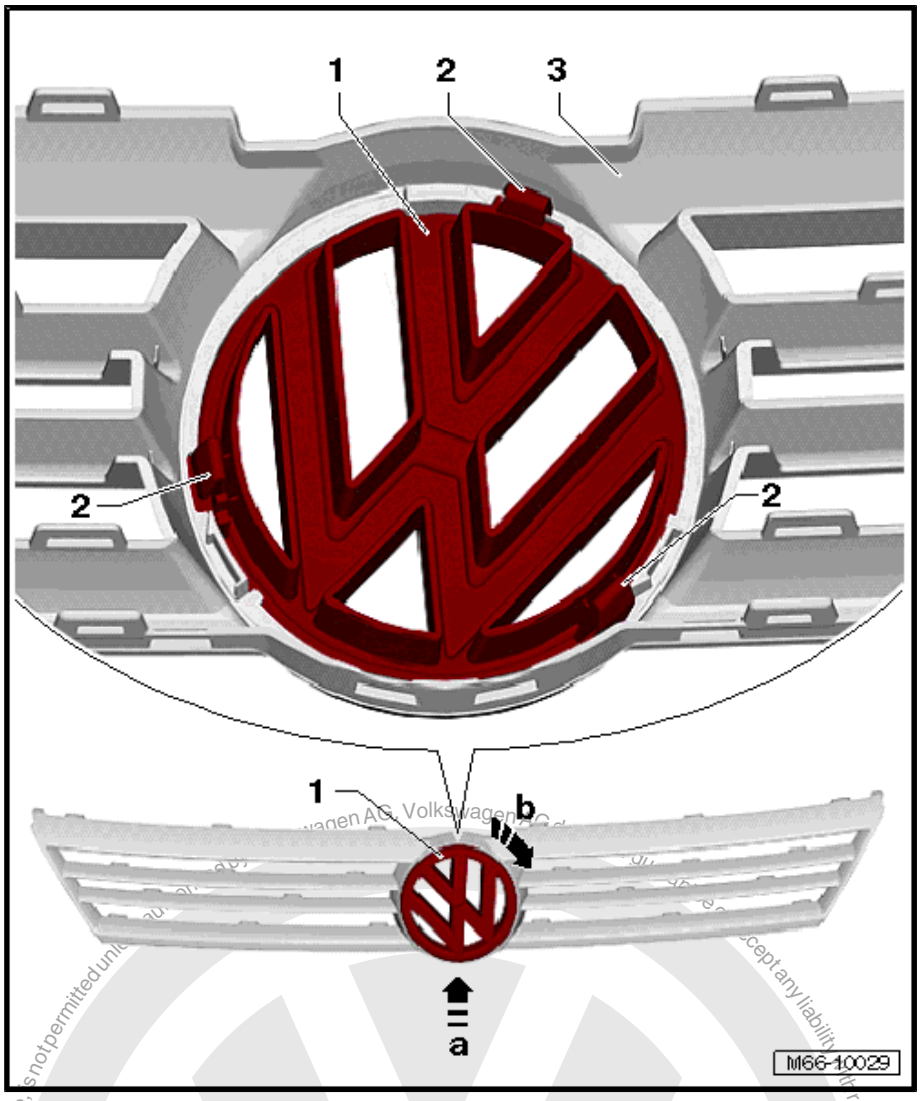
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– Unhook the top hook -3- with a screwdriver -2- in direction of -arrow a-.
– Unhook the hook -4- in the same manner and turn the emblem -1- in direction of -arrow b-.
– Remove the emblem and hooks -3- and -4- through the openings in the trim -5-.

3.3.2 Installing



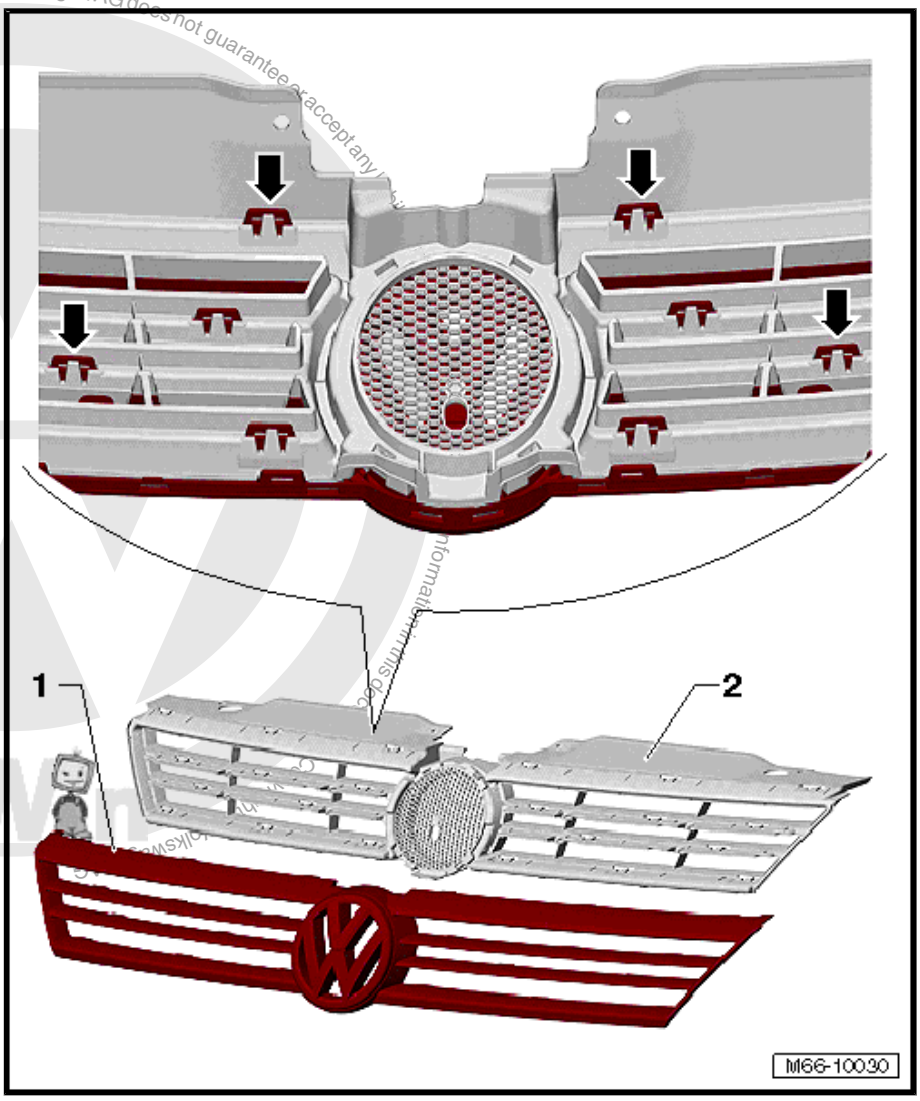
Perform the following:

– Push the emblem -1- with the hooks -2- into the trim -3- in direction of -arrow a-.

– Turn the emblem -1- in direction of -arrow b- until the hooks-2- lock into the trim -3-.

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– Install the trim and emblem -1- onto the carrier -2-.
– Push the trim and emblem -1- onto the carrier -2- until the hooks -arrows- engage.
– Install the radiator grille. Refer to ⇒ “3.2 Radiator Grille, Removing and Installing”, page 291 .

4 Rear Spoiler

⇒ “4.1 Rear Spoiler, Removing and Installing”, page 298

4.1 Rear Spoiler, Removing and Installing

Special tools and workshop equipment required

- Bonded Window Tool Kit - Pull Handle - VAG1351/1-
- Cartridge Gun - VAG1628-
- Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A-
- Adhesive Strip Remover - VAS6349-

Materials

Note

For material part numbers. Refer to the Parts Catalog.

- One-part window adhesive [1) 2) 3)]
- Activator [1)]
- Glass/Paint primer [1)]
- Cleaning Solution [1)]
- Primer applicator [1)]
- Adhesive remover [1)]
- Cutting Wire

[1)] Follow the manufacturer processing guidelines supplied in the packaging.

[2)] Note the minimum curing time. Refer to ⇒ page 302 .

[3)] Heat according to manufacturer's instructions using the Cartridge Heater - VAG1939A- .

Removing

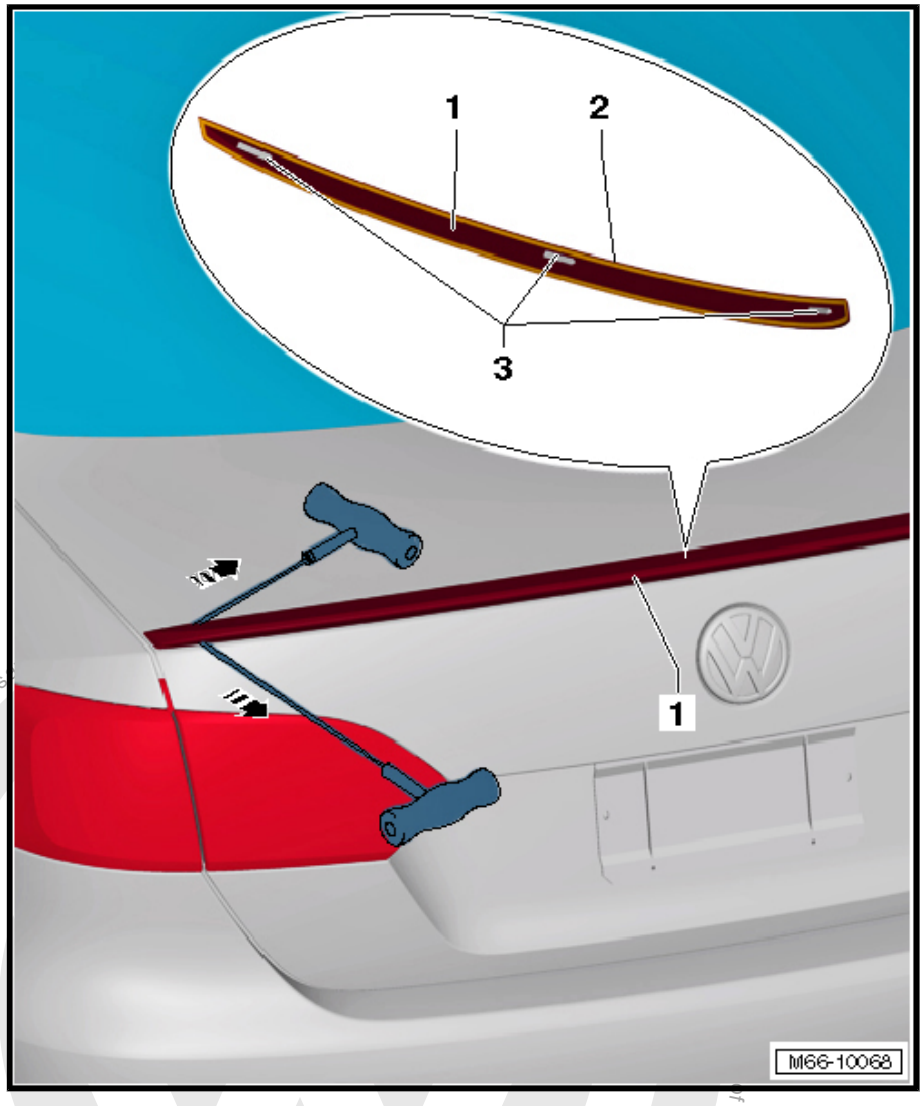
Caution

When cutting through the rear spoiler adhesive bead, never use cutting wire as it may cause damage to the paint surfaces.

Note

- *Remove dirt from all joints, so that no paint damage can occur during removal of the rear spoiler.*
- *Cover the bordering paint surfaces with tape to prevent causing damage.*

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Perform the following:

- Warm up the adhesive tape -2- on the rear spoiler -1- using the Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A- .
- Carefully remove the adhesive tape between the rear lid and the rear spoiler (for example with a plastic wedge).
- Pull the cutting wire sideways under the rear spoiler -1-.
- Secure a Bonded Window Tool Kit - Pull Handle - VAG1351/1- on both ends of the cutting cord.
- Remove the adhesive sealing material -3- on the rear spoiler -1- with a “sawing” motion.
- Remove the rear spoiler from the rear lid.

Installing

Rear Spoiler and Rear Lid, Preparing for Bonding

When reusing rear lid and/or the rear spoiler that has not been damaged

- Replace the old double-sided adhesive tape on the rear spoiler with new double-sided adhesive tape. Refer to the Parts Catalog.

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– Remove any adhesive still on the two-sided adhesive tape with Adhesive Strip Remover - VAS6349- .

– Shortly before installing the components, cut back the remaining adhesive about 2 mm without damaging the paint.

It is not necessary to clean the cutting surfaces.

Note

The remaining material acts as a base for the new adhesive sealant to be applied.

When using a new rear lid

– Position the rear spoiler onto the rear lid and mark the installed position. Then remove the rear spoiler again.

– Clean the marked adhesive surfaces with cleaning solution. Refer to the Parts Catalog.

Caution

Never apply glass/paint primer beyond the markings. If the glass/paint primer is applied beyond the markings, it can be removed within one minute using a lint free cloth and mineral spirits. It cannot be removed any later than that because of the bonding properties of the glass/paint primer.

– Prime the marked adhesive surfaces for the one-part window adhesive with the glass/paint primer. Refer to the Parts Catalog.

• Drying time 10 minutes

When using a New Rear Spoiler

– Clean the marked adhesive surfaces with cleaning solution. Refer to the Parts Catalog.

Caution

Never apply glass/paint primer beyond the marking. If the glass/paint primer is applied in excess on the adhesive surfaces, it can be removed with a lint free cloth and mineral spirits within the first minute. It cannot be removed any later than that because of the bonding properties of the glass/paint primer.

– Prime the adhesive surfaces for the one-part window adhesive with the glass/paint primer. Refer to Parts Catalog.

• Drying time 10 minutes

Two Sided Tape, Installation Instructions

♦ If installing the rear spoiler for the first time on newly painted surfaces, follow the procedure described in ⇒ Paint; Rep. Gr. 00 .

♦ If removing or installing the rear spoiler, only use the adhesive remover to separate the remaining adhesive from the adhesive tape. Refer to the Parts Catalog.

♦ If necessary remove any adhesive residue left by the tape using Adhesive Remover - D 002 000 10- .

♦ Make sure there is no dust or grease on the adhesive surfaces.

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- Apply the rear spoiler immediately after cleaning.
- Remove protective foil only immediately prior to the rear spoiler assembly.
- The temperature must be approximately 21 °C (69.8 °F).

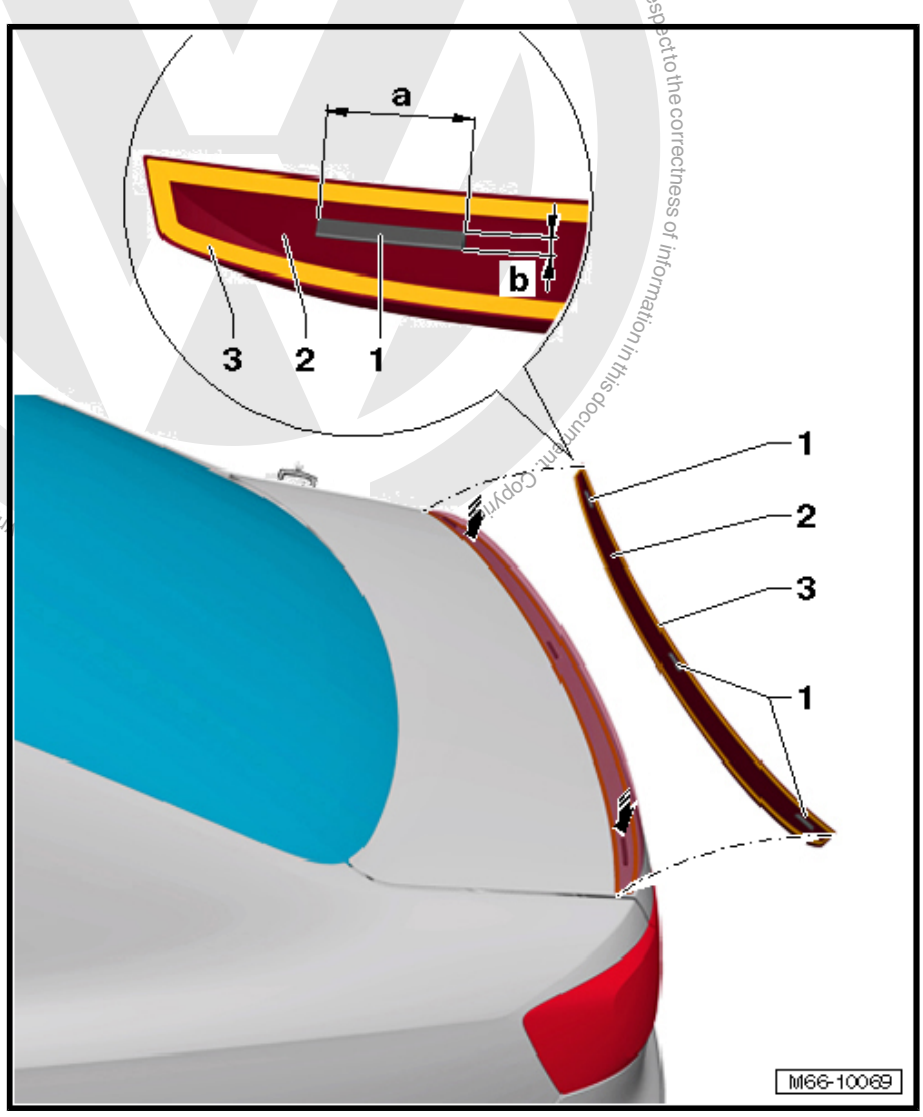
Perform the following:

WARNING

Make sure that the correct materials are being used during the corresponding work steps.

– Preparing to bond rear spoiler and rear lid. Refer to ⇒ page 299 .

– Observe the installation instructions for double-sided tape. Refer to ⇒ page 300 .



– Apply the one-part window adhesive -1- with the Cartridge Gun - VAG1628- to the rear spoiler -2-.

– Remove the protective foil of the double-sided adhesive tape -3- on the left and right outer edges of the rear spoiler -2-.

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– Attach the rear spoiler -2- to the rear lid with the help of a second technician and align it.
– Press the right and left edges of the rear spoiler down onto the rear lid -arrows- while at the same time remove the remaining protective foil from the double-sided adhesive tape -3- on the rear spoiler -2-.
– Press the rear spoiler -2- down evenly over the entire length.

Minimum Curing Time

WARNING

- ***The vehicle can only be used after the minimum curing time has elapsed.***

	Adhesive sealant	Minimum curing time in hours
Rear spoiler on the rear lid	One-part window adhesive. Refer to the Parts Catalog.	3

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5 Trim Moldings and Trim

⇒ “5.1 Drip Rail”, page 303
⇒ “5.2 Overview - Sill Panel Cover”, page 307
⇒ “5.3 Overview - B-Pillar Trim”, page 308
⇒ “5.4 B-Pillar Trim, Removing and Installing”, page 309
⇒ “5.5 Rocker Panel Extension”, page 311

5.1 Drip Rail

⇒ “5.1.1 Tools”, page 303
⇒ “5.1.2 Overview”, page 303
⇒ “5.1.3 Removing”, page 304
⇒ “5.1.4 Installing”, page 304

5.1.1 Tools

Special tools and workshop equipment required

- Gauge - Gap Adjustment - 3371-
- Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A-
- Adhesive Strip Remover - VAS6349-

5.1.2 Overview

Note

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

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1 - Drip Rail

2 - Retaining Strip

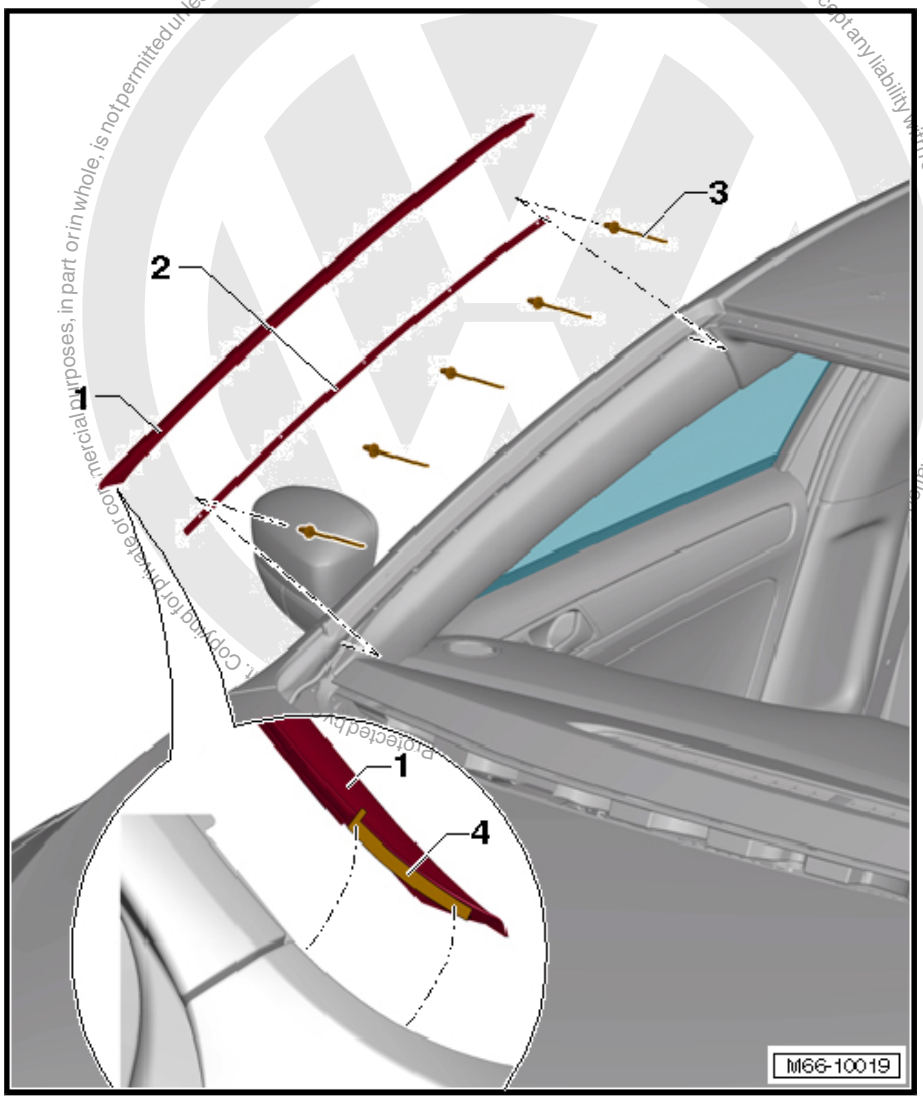
> **Caution**
> ***Install and remove only when the windshield is removed otherwise it will get damaged.***

3 - Pop Rivet

- ❑ Quantity: 5
- ❑ Drill out the pop rivets in order to remove the retaining strip
- ❑ Install the pop rivets with pop rivet pliers (for example Pop Rivet Pliers - VAS5072-) in order to install the retaining strip

4 - Adhesive Tape

- ❑ Is a part of the drip rail
- ❑ Remove the protective film just before applying the glue.

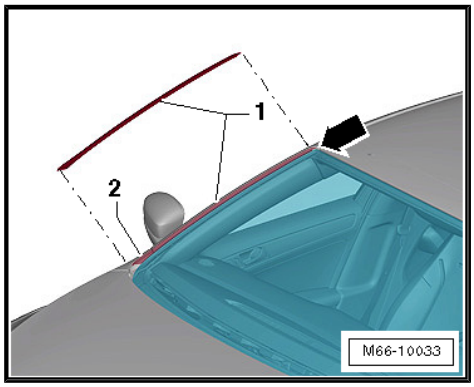


5.1.3 Removing

Perform the following:

– Pry the drip rail -1- out of the retaining strip starting at the top -arrow-.

– Warm the adhesive tape on the retaining strip for the front fender -2- using a Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A- and carefully peel it off.



5.1.4 Installing

Assembly Instructions

♦ If removing the drip rail, only use the Adhesive Remover - D 002 000 10- to remove the adhesive residue.

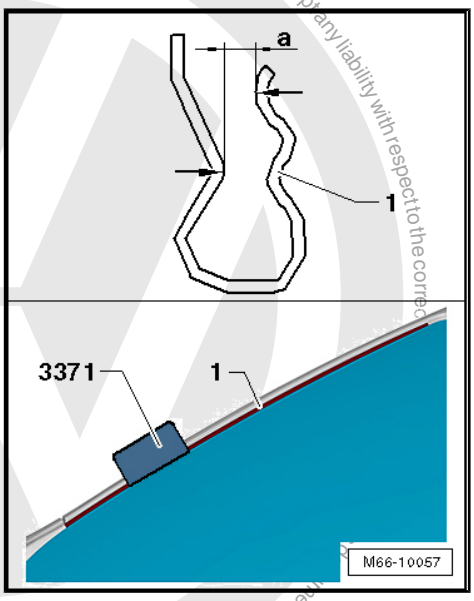
- If necessary remove any adhesive residue left by the tape using Adhesive Strip Remover - VAS6349- .
- Make sure there is no dust or grease on the adhesive surfaces.
- Apply the drip rail immediately after cleaning.
- Only remove the protective film right before assembly.
- The temperature must be approximately 21 °C.

Perform the following:

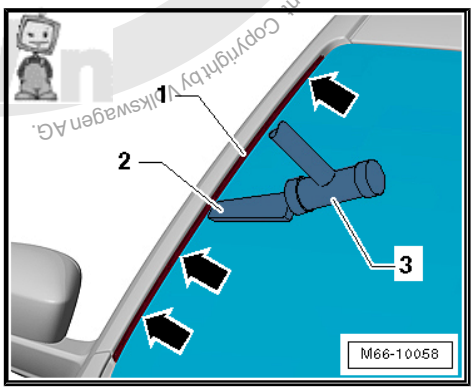
Follow the assembly instructions ⇒ page 304 .

– Check the distance -a- over the entire length of the retaining strip -1- using Gauge - Gap Adjustment - 3371- .

• Distance -a- between the -arrows-: 0.9 to 1.1 mm



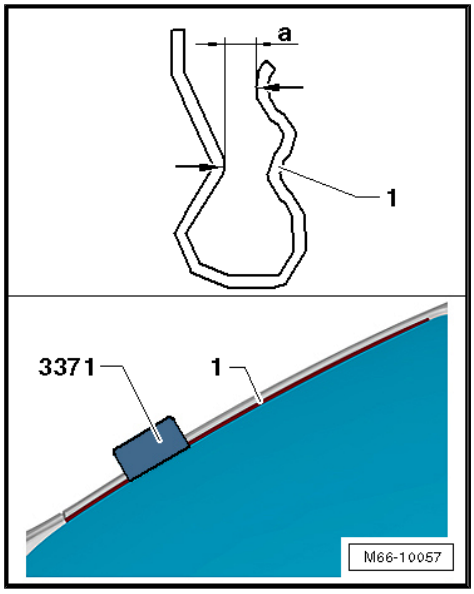
– If the measured distance on the retaining strip -1- is different than the specified value, then it is necessary to adapt the distance -arrows-, for example, with a plastic wedge -2- and hammer -3-.



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– Check the distance -a- over the entire length of the retaining strip -1- after the adapting using Gauge - Gap Adjustment - 3371- .

• Distance -a- between the -arrows-: 0.9 to 1.1 mm



– Press the drip rail -1- onto the retaining strip -5- starting at the top -arrow-.

Note

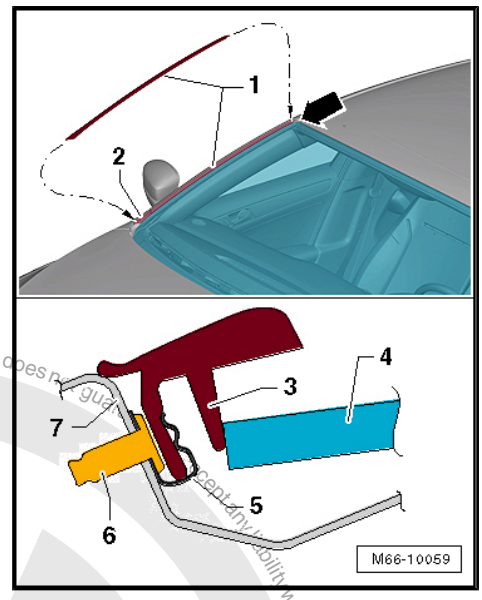
The drip rail -1- must not protrude above the edge of the roof. This will create wind noise.

– Fold the lip on the drip rail -3- behind the edge of the windshield -4-.

6 - Pop Rivet

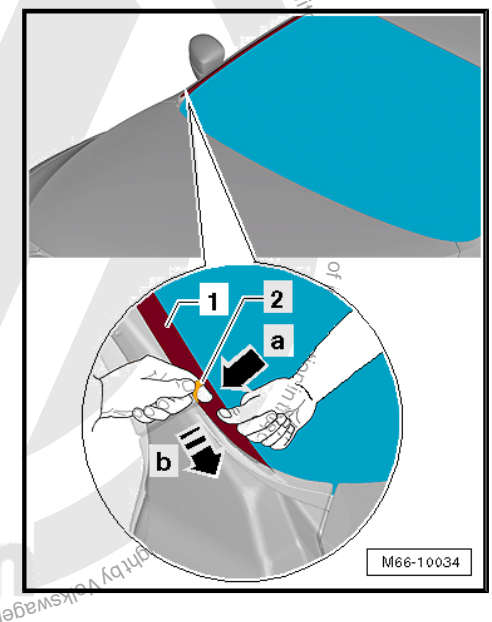
7 - Body Flange

– Attach the tape on the retaining strip to the front fender -2- as follows.



– Press the drip rail -1- on the inside -arrow a- to make it easier to remove the protective film from the front fender.

– Peel off the protective film -2- in -direction of arrow b- and press the drip rail onto the front fender.



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5.2 Overview - Sill Panel Cover

Note

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

1 - Sill Panel Cover

- ❑ Removing:
  - – Remove the bolts -2- and the sill panel cover.
- ❑ Installing:

• Check the expanding nut -3- for damage and replace if necessary.

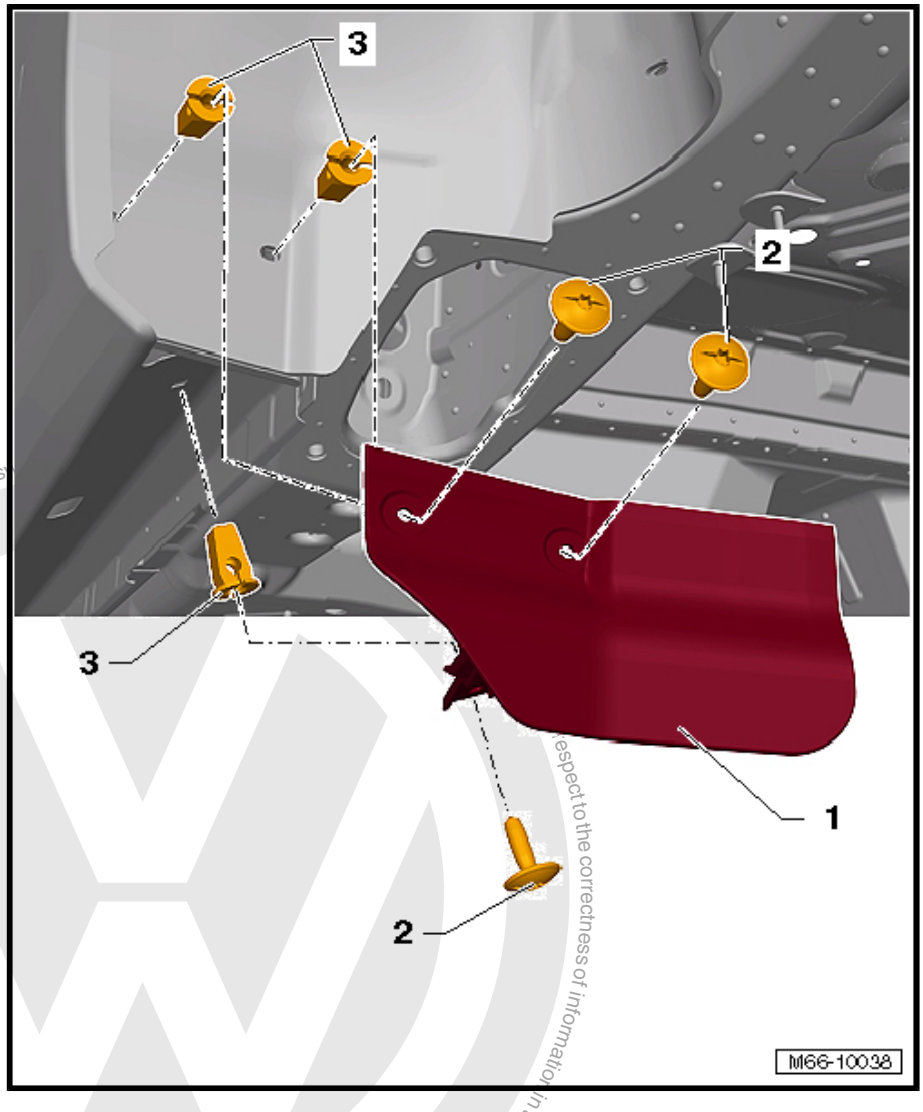
- – Mount the sill panel cover and tighten the bolts -2-.

2 - Screw

- ❑ Tightening specification: 2 Nm
- ❑ Quantity: 3

3 - Expanding Nut

- ❑ Quantity: 3
- ❑ Replace if damaged



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5.3 Overview - B-Pillar Trim

1 - B-Pillar Trim

2 - Fasteners

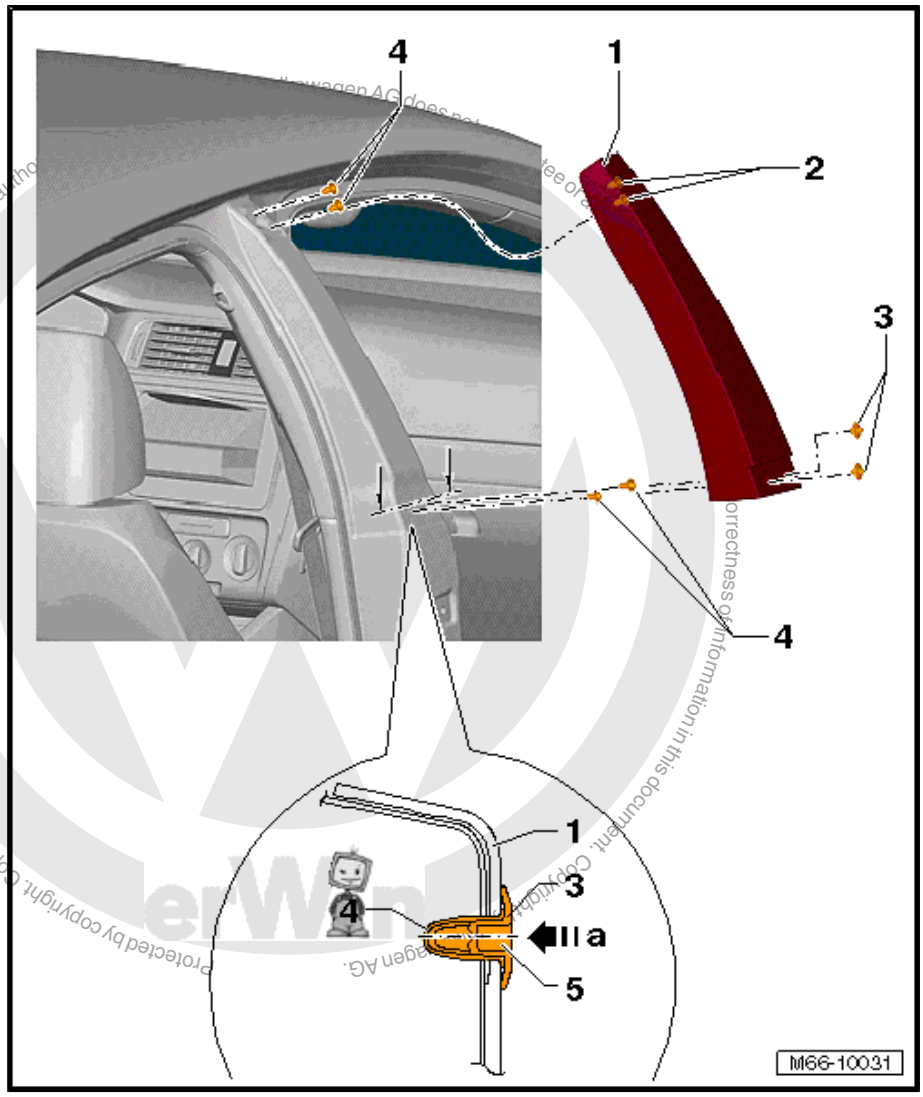
- ❑ Part of the trim

3 - Clip

4 - Grommet

- ❑ Quantity: 4

5 - Expanding Rivet



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5.4 B-Pillar Trim, Removing and Installing

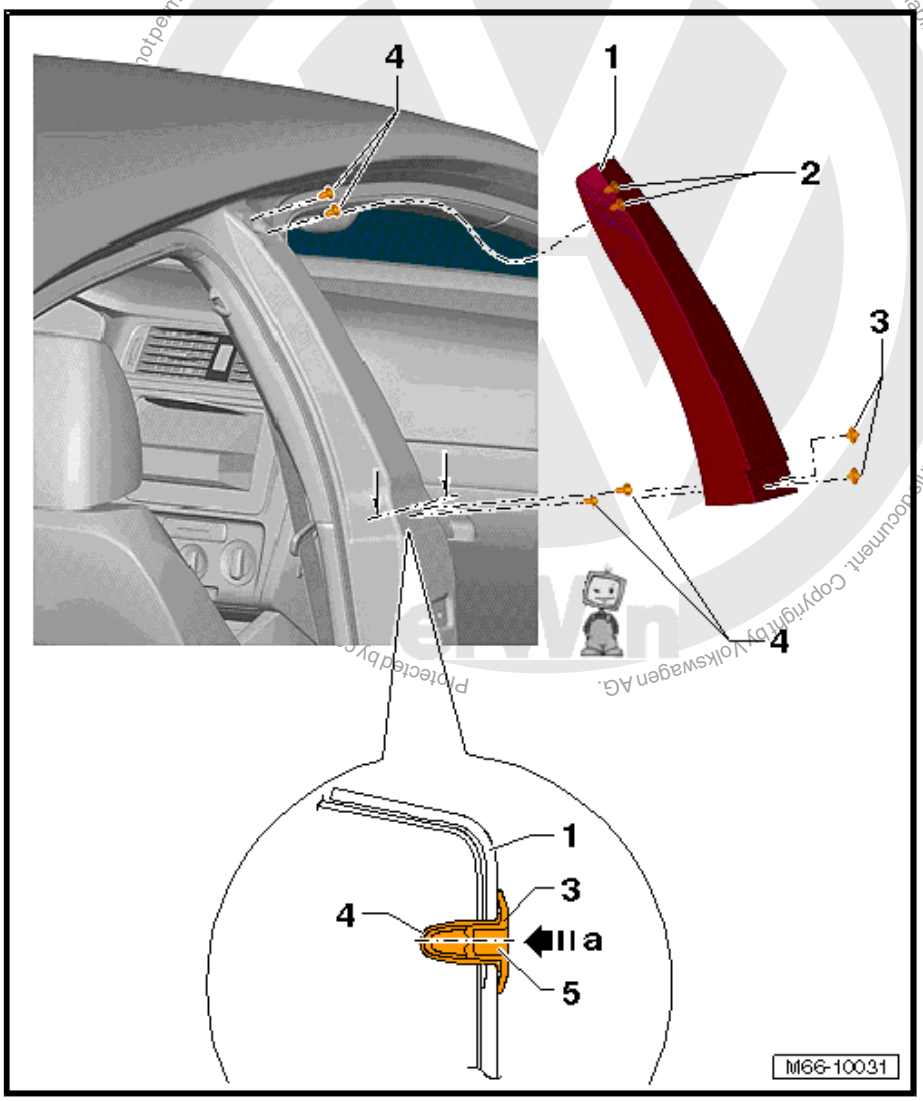
⇒ “5.4.1 Removing”, page 309

⇒ “5.4.2 Installing”, page 310

5.4.1 Removing

Note

It is not possible to remove the trim without destroying it.



Perform the following:

– Install the expanding pins -5- slightly into the clips -3- in direction of -arrow a-.

Note

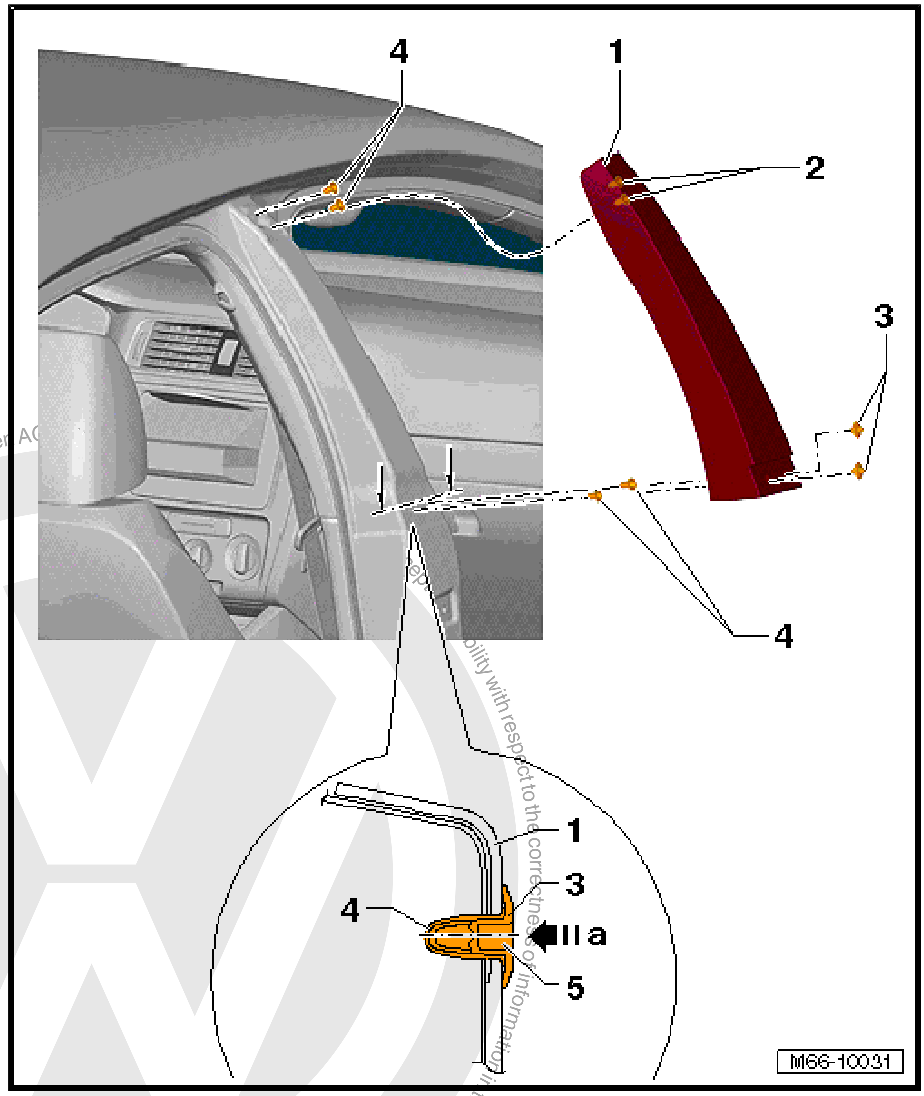
The expanding pins -5- remain in the grommets -4-.

– Remove the clips -3-.

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– Remove the trim -1- and the fasteners -2- from the grommets.
– Remove the expanding pins -5- from the grommets -4-.

5.4.2 Installing



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Perform the following:

Note

Check the grommets -4- for damage and replace if necessary.

– Mount the trim -1- on the B-pillar.
– Press the fasteners -2- on the trim into the grommets -4-.
– Install the clips -3- and press the expanding pins -5- into the clips in direction of -arrow a-.

5.5 Rocker Panel Extension

⇒ “5.5.1 Removing”, page 311

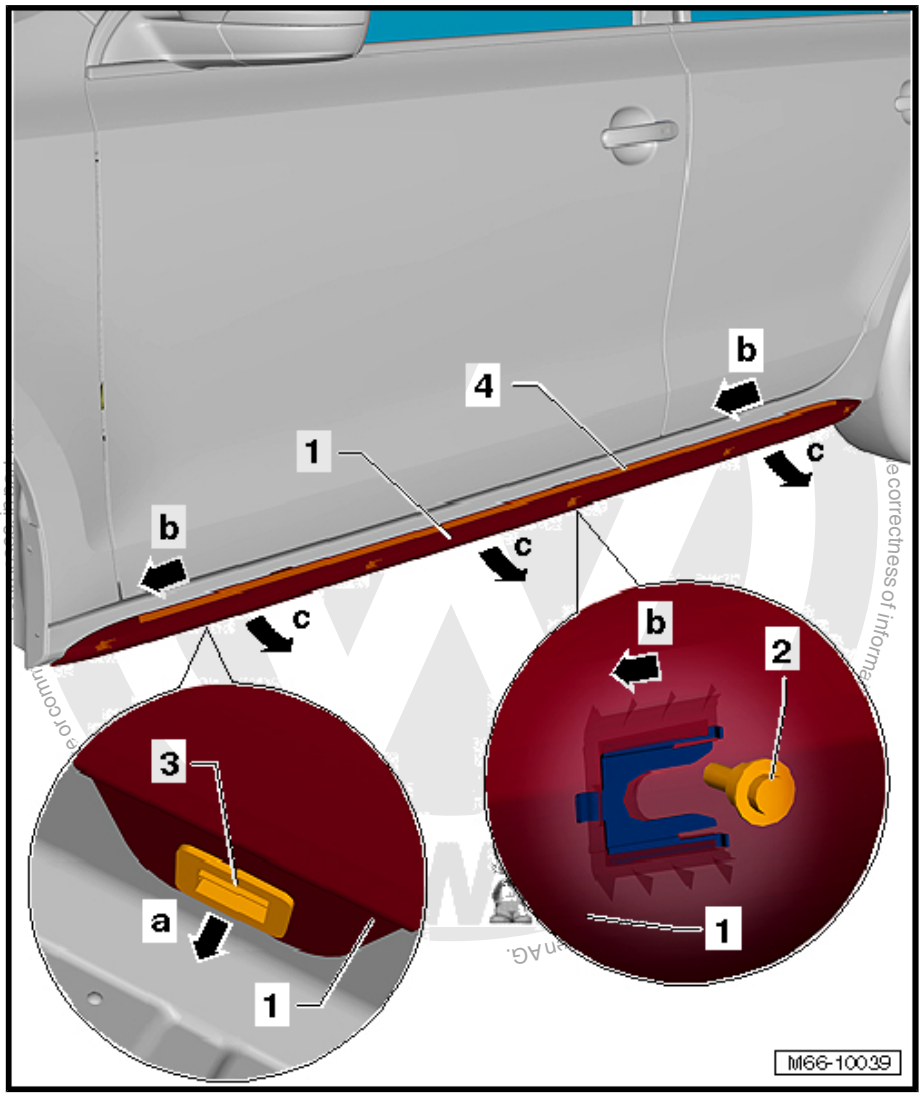
⇒ “5.5.2 Screw Dimensions”, page 312

⇒ “5.5.3 Installing”, page 313

5.5.1 Removing

Note

The following described removing and installing the left rocker panel extension. Removing and installing the right rocker panel extension is identical.



Perform the following:

– Open the clips -3- and remove them from the rocker panel extension -1- -arrow a-.

– Warm up the adhesive tape -4- on the top of the rocker panel extension -1- using the Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A- .

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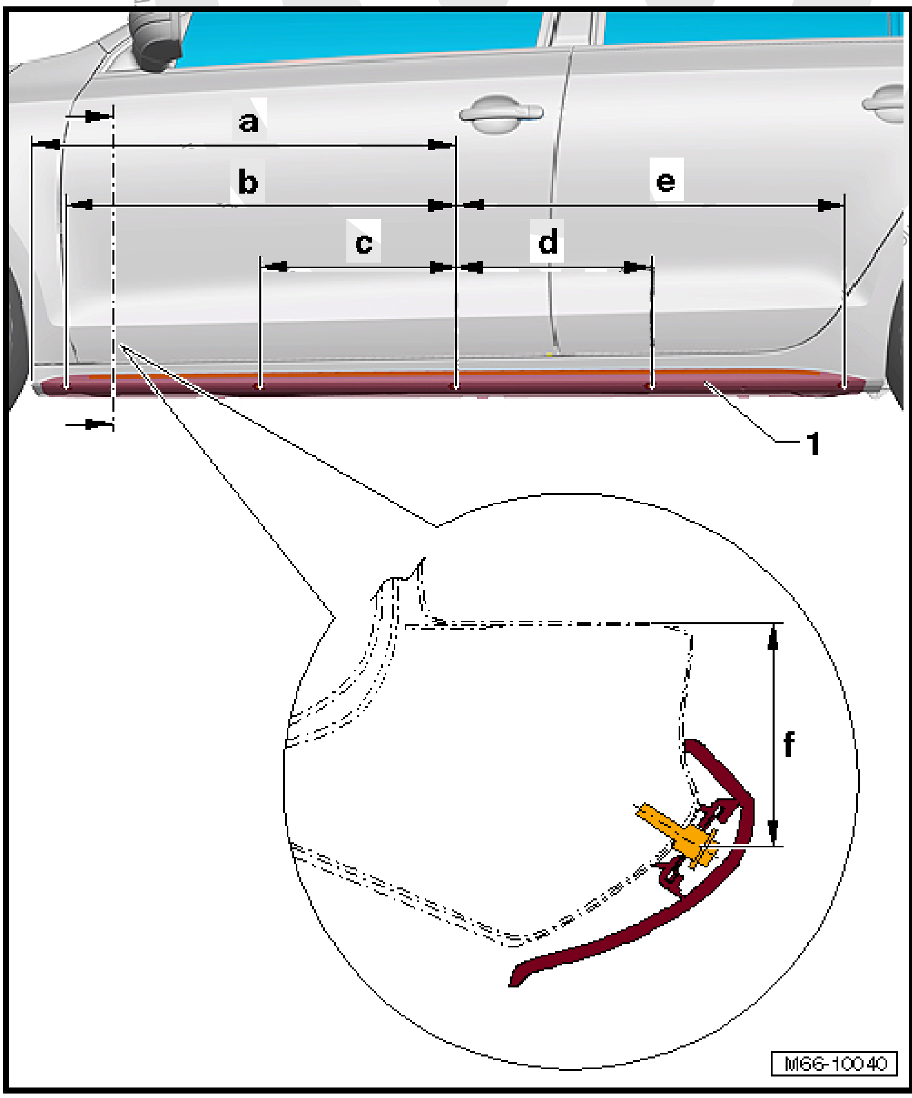
– Carefully loosen the tape -4- between the side sill and the rocker panel extension -1- using a plastic wedge.

– Push the rocker panel extension -1- forward -arrows b- until it can be removed from the five bolts -2- -arrows c-.

5.5.2 Screw Dimensions

Note

- *The screws for the rocker panel extension are corrosion-resistant. They do not need to be treated.*
- *A screw must be replaced with a "black" oversized screw if it was over-torqued.*



Perform the following:

– Measure out the required holes for the screws using the table below. Refer to ⇒ page 313

– Punch the locations for the holes and then use a 1.5 mm drill bit to drill the holes.

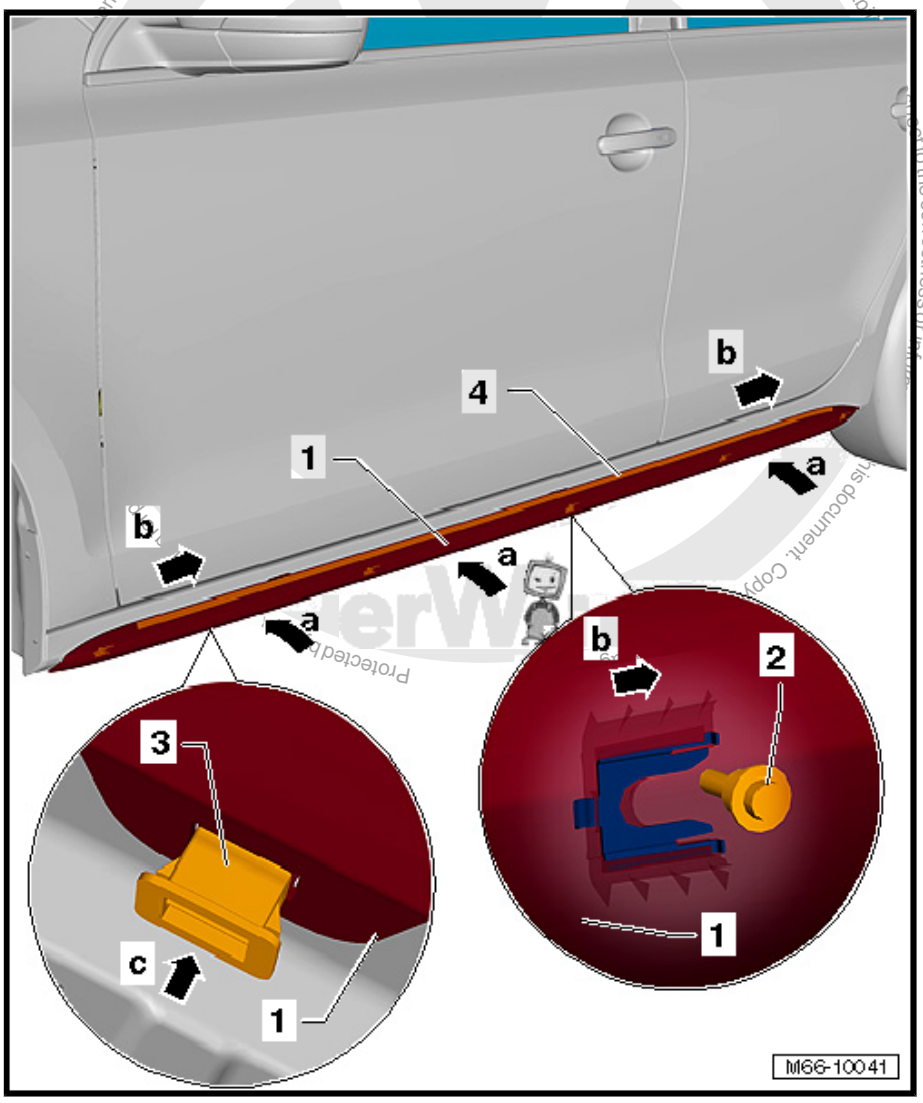
Note

- *Dimension -a- is measured including the front wheel housing liner. Dimensions -b- through -e- are always measured from the center hole.*
- *Dimension -f- is measured on the center hole.*

Screw Dimensions	
Dimension -a-	= 950 mm
Dimension -b-	= 869 mm
Dimension -c-	= 435 mm
Dimension -d-	= 435 mm
Dimension -e-	= 869 mm
Dimension -f-	= 60 mm

5.5.3 Installing

Assembly Instructions



Perform the following:

– Follow the assembly instructions. Refer to ⇒ page 313 .

– Install the self-tapping screws -2- into the holes.

Screw tightening specification -2-: 1.2 Nm

– Mount the rocker panel extension -1- so that the openings on the back are lined up over the bolts -2- until the rocker panel extension is touching the side sill evenly -arrows a-.

– Push the rocker panel extension -1- all the way toward the back onto the bolts -2- -arrows b-.

– Press the clips -3- into the rocker panel extension -1- -arrow c- until the click into place.

– Remove off the peel-off backing on the stop of the rocker panel extension -1- from the adhesive strip -4- and press the it firmly onto the sill panel.

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6 Name Badges

⇒ “6.1 Tools”, page 315

⇒ “6.2 Assembly Instructions for Name Badges and Emblems”, page 315

⇒ “6.3 Rear Lid Name Badge Dimensions”, page 315

⇒ “6.4 Name Badge on Fender, Dimension”, page 317

6.1 Tools

Special tools and workshop equipment required

- Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A-
- Adhesive Strip Remover - VAS6349-

6.2 Assembly Instructions for Name Badges and Emblems

Note

- *It is not possible to remove the name badge without breaking it.*
- *Warm up the name badge before removing using a Wiring Harness Repair Set - Hot Air Blower - VAS1978/14A- .*
- *Only use the Adhesive Remover - D 002 000 10- .*
- *Make sure the adhesive surfaces are free of dust and grease.*
- *Install the name badges immediately after cleaning them.*
- *Only remove the protective film right before assembly.*
- *The temperature must be approximately 21 °C (69.8 °F).*

6.3 Rear Lid Name Badge Dimensions

⇒ “6.3.1 Model Name Badge”, page 315

⇒ “6.3.2 Engine Name Badges”, page 316

⇒ “6.3.3 Name Badge, Additional Designation”, page 316

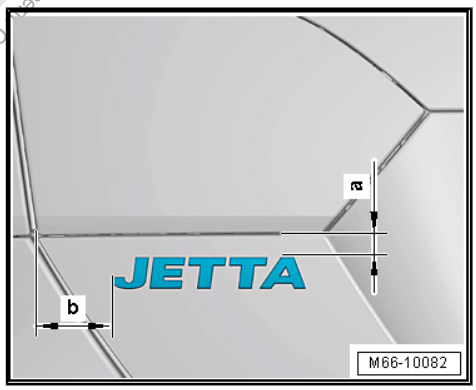
⇒ “6.3.4 GLI Name Badge”, page 316

⇒ “6.3.5 HYBRID and SPORT Name Badges”, page 317

6.3.1 Model Name Badge

Note

Follow the assembly instructions when installing the name badges. Refer to ⇒ “6.2 Assembly Instructions for Name Badges and Emblems”, page 315 .

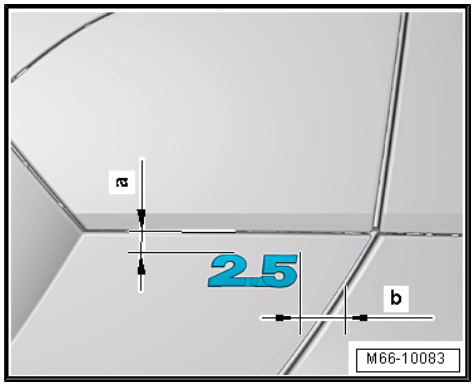


Dimension -a-: 14 mm from the left tail lamp lower edge to the top of the name badge

Dimension -b-: 40 mm from the edge of the rear lid to the outer edge of the name badge

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6.3.2 Engine Name Badges



Note

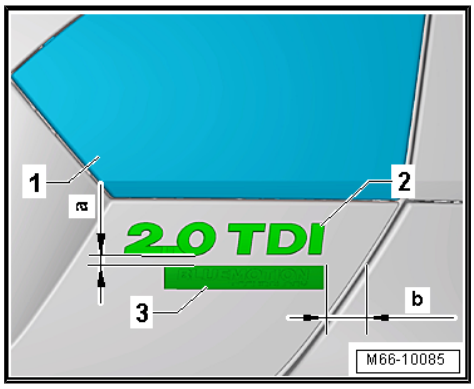
Follow the assembly instructions when installing the name badges. Refer to
⇒ "6.2 Assembly Instructions for Name Badges and Emblems", page 315 .

Dimension -a-: 14 mm from the right tail lamp lower edge to the top of the name badge

Dimension -b-: from the edge of the rear lid to the outer edge of the name badge

- "2.0", "2.5" name badge; 43 mm
- "TDI", "TSI", "2.5 SE", "2.5 SEL" name badge; 40 mm
- "2.0 TDI", "2.0 TSI" name badge; 37 mm

6.3.3 Name Badge, Additional Designation



Note

Follow the assembly instructions when installing the name badges. Refer to
⇒ "6.2 Assembly Instructions for Name Badges and Emblems", page 315 .

1 - Right Tail Lamp in the Rear Lid

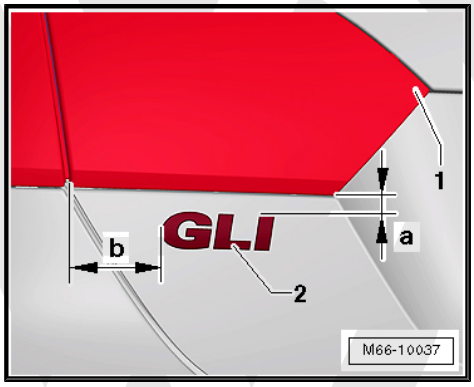
2 - Engine Designation

3 - Additional designation

Dimension -a-: 8 mm, from the lower edge of the engine designation up to the upper edge of the additional designation

Dimension -b-: 22 mm from the edge of the rear lid to the outer edge of the name badge

6.3.4 "GLI" Name Badge



Note

Follow the assembly instructions when installing the name badges. Refer to
⇒ "6.2 Assembly Instructions for Name Badges and Emblems", page 315 .

1 - Left Tail Lamp in the Rear Lid

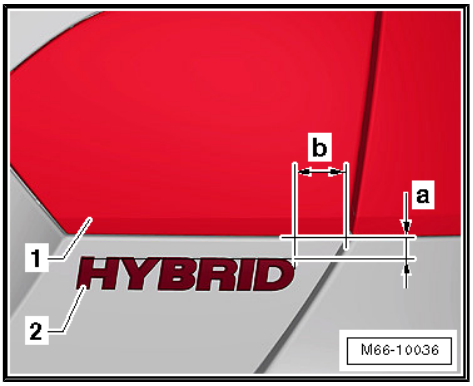
2 - "GLI" Name Badge

Dimension -a-: 15 mm from the lower edge of the tail lamp assembly to the top of the name badge

Dimension -b-: 77 mm from the edge of the tail lamp to the outer edge of the name badge

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6.3.5 “HYBRID” and “SPORT” Name Badges



Note

Follow the assembly instructions when installing the name badges. Refer to
⇒ “6.2 Assembly Instructions for Name Badges and Emblems”, page 315 .

1 - Right Tail Lamp in the Rear Lid

2 - Name Badge “HYBRID” or “SPORT”

Dimension -a-: from the lower edge of the right tail lamp assembly to the top of the name badge

- “HYBRID” name badge: 13 mm
- “SPORT” name badge: 14 mm

Dimension -b-: from the edge of the rear lid to the outer edge of the name badge

- “HYBRID” name badge: 27 mm
- “SPORT” name badge: 37 mm

6.4 Name Badge on Fender, Dimension

⇒ “6.4.1 HYBRID Name Badge”, page 317

⇒ “6.4.2 MATCH, LIFE, sochiEDITION, Name Badge”, page 318

6.4.1 “HYBRID” Name Badge

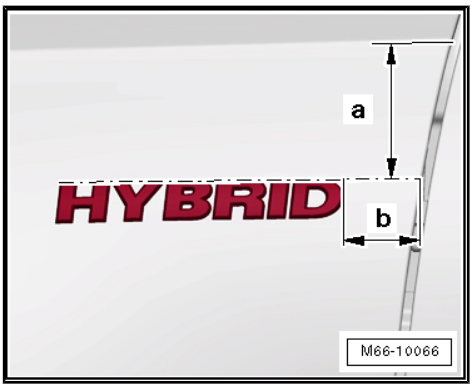
Note

Follow the assembly instructions when installing the name badges. Refer to
⇒ “6.2 Assembly Instructions for Name Badges and Emblems”, page 315 .

Left Fender Name Badge

Dimension -a-: 58 mm from the recess in the fender to the upper edge of the name badge

Dimension -b-: 32 mm from the edge of the fender to the rear edge of the name badge

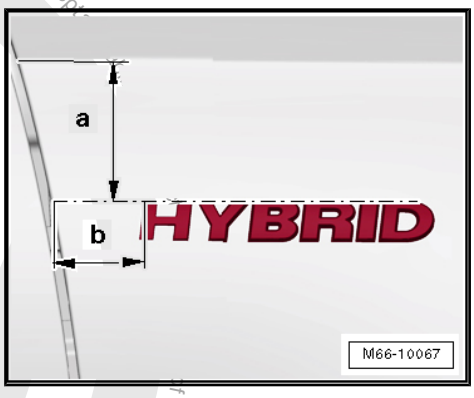


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Right Fender Name Badge

Dimension -a-: 58 mm from the recess in the fender to the upper edge of the name badge

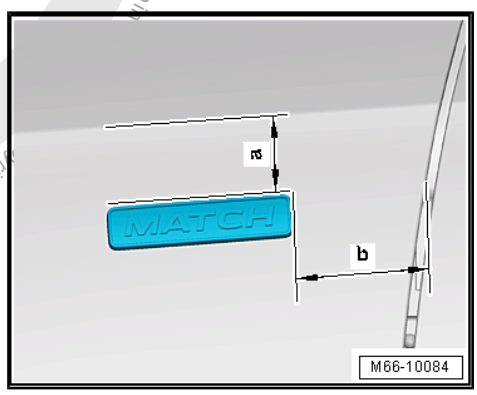
Dimension -b-: 35 mm from the edge of the fender to the rear edge of the name badge



6.4.2 “MATCH”, “LIFE”, “sochiEDITION”, Name Badge

Note

- *Follow the assembly instructions when installing the name badges. Refer to* *⇒ “6.2 Assembly Instructions for Name Badges and Emblems”, page 315* .
- *The dimensions described are only for the left fender. The dimensions for the right fender are identical.*



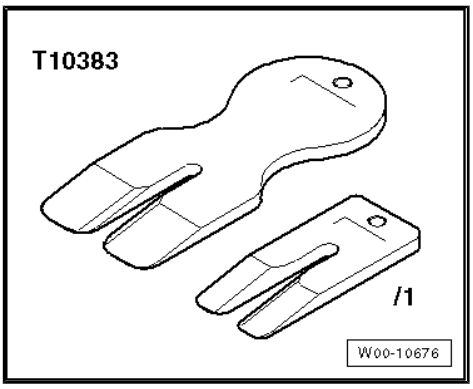
Dimension -a-: 40 mm from the recess in the fender to the upper edge of the name badge.

Dimension -b-: 42 mm from the edge of the fender to the rear edge of the name badge

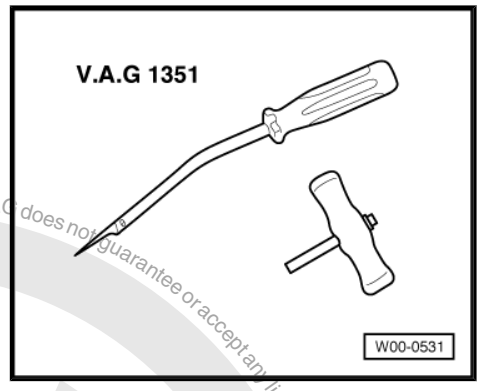
7 Special Tools

Special tools and workshop equipment required

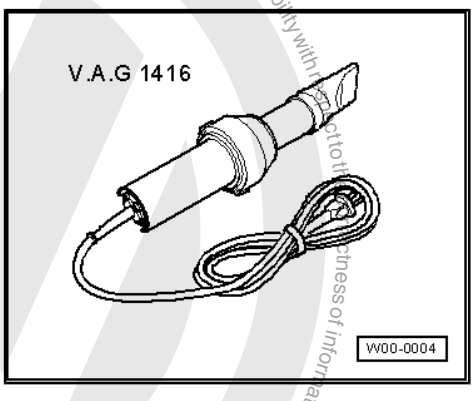
- Wedge Set - T10383-



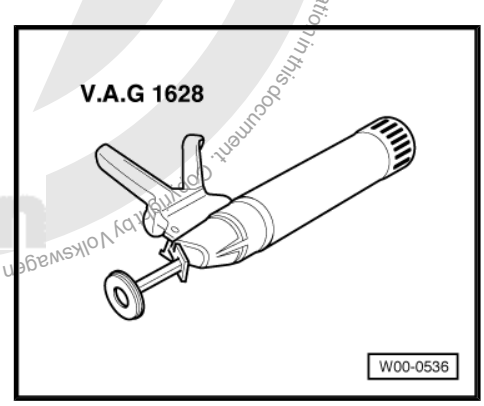
- Bonded Window Tool Kit - Pull Handle - VAG1351/1-



- Hot Air Blower - VAG1416-

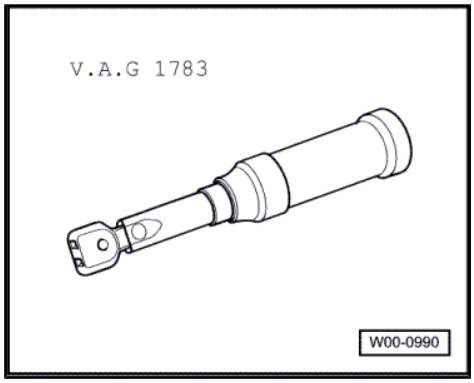


- Cartridge Gun - VAG1628-

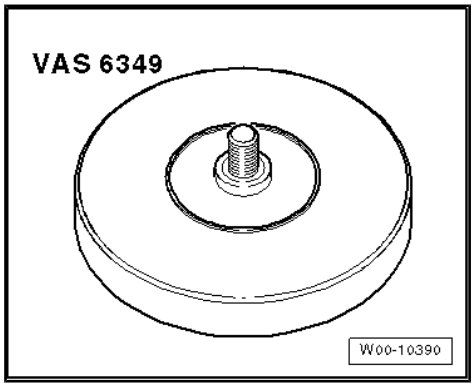


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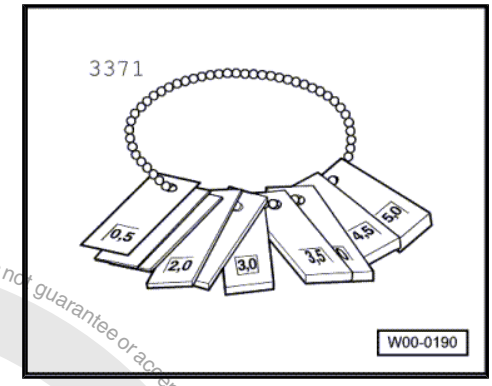
- Torque Wrench 1783 - 2-10Nm - VAG1783-



- Adhesive Strip Remover - VAS6349-



- Gauge - Gap Adjustment - 3371-



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8 Revision History

DRUCK NUMBER: K00590709

Factory Edition	Edit Edition	Job Type	Feedback	Notes	Quality Checked By
06.2014	07/08/2015	Correction	N/A		Joe Y.
06.2014	07/01/2015	Feedback	1100116		Joe Y.
06.2014	06/24/2015	Correction	N/A		Eric P.
06.2014	06/03/2015	Reformat/ link check /feedback	1100116		Joe Y.
06.2014	7/23/2014	Factory Update/ FB	1008358		Joe Y.
	3/3/2014	Factory Update			Joe Y.
	4/10/2013	Factory Update			Joe Y.

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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.

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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.

back next

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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.

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