



Workshop Manual
Jetta 2011 ➤
Jetta Hybrid 2013 ➤

General body repairs, interior

Edition 06.2012





List of Workshop Manual Repair Groups

Repair Group

00 - Technical data

68 - Interior equipment

69 - Passenger protection

70 - Trim, insulation

72 - Seat frames

74 - Seat - padding, covers

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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00 – Technical data

1 Safety information

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1.1 Safety measures when working on vehicles with a start-stop system

Observe the following when working on vehicles with a start-stop system:



WARNING

Risk of injury due to automatic engine starting in vehicles with a start-stop system.

- ◆ *In vehicles with an activated start-stop system (indicated by a message in the dash panel insert), the engine may start automatically if necessary.*
- ◆ *When working on the vehicle, therefore, make sure that the start-stop system is deactivated (switch off the ignition; switch the ignition on again if necessary).*



1.2 Safety measures when working with pyrotechnic components



Note

The following are pyrotechnic components:

- ◆ Airbag units
- ◆ Belt tensioner
- ◆ Belt force limiters (depending on vehicle equipment level)
- ◆ Battery isolation elements (depending on vehicle equipment level)

General

- ◆ Testing, removing, installing and repair work may only be performed by qualified personnel.
- ◆ There are no replacement intervals for airbag units.
- ◆ Under no circumstances should checks be carried out with a test lamp, voltmeter or ohmmeter.
- ◆ Pyrotechnic components may only be checked in installed state and with vehicle diagnosis, testing and information systems approved by the manufacturer.
- ◆ When working on pyrotechnic components and airbag control unit -J234-, battery earth strap must be disconnected with ignition switched ON. Then cover negative terminal.
- ◆ A waiting time of 10 seconds is necessary after disconnecting the battery.
- ◆ The battery must be connected with the ignition SWITCHED ON. When doing this, there should be no-one inside the vehicle. Exception: Vehicles with battery inside passenger compartment. In this case do not stay anywhere near the effective range of the airbags and seat belts.
- ◆ If the ignition has not yet been switched on after the battery has been reconnected – warning lamps in dash panel insert are off – keep your head and arms away from the steering wheel and, if fitted, from the knee-airbag (i.e. away from the operating range of the airbags and seat belts) when switching on the ignition for the first time.
- ◆ Observe required procedures after connecting battery ⇒ Electrical system; Rep. gr. 27 ; Battery; Disconnecting and connecting battery .
- ◆ Before handling pyrotechnic components of the restraint system, for example before separating an electrical connection, the mechanic must electrostatically discharge himself/herself. Electrostatic discharge is achieved by touching earthed metallic parts, such as the door striker plate.
- ◆ Wash hands after coming into contact with triggered pyrotechnic components of restraint system.
- ◆ Pyrotechnic components must not be opened or repaired; always use new parts (risk of injury).
- ◆ Pyrotechnic components that have been dropped onto a hard surface or show signs of damage must not be installed in a vehicle.
- ◆ Pyrotechnic components must be installed immediately after they have been removed from their packaging.



- ◆ If work is interrupted, the pyrotechnic component must be stored back in its packaging.
- ◆ Leaving the pyrotechnic component unattended is prohibited.
- ◆ When connecting restraint system pyrotechnic components, only the person carrying out the work may be inside the vehicle.
- ◆ Pyrotechnic components must not come into contact with grease, cleaning solution or similar.
- ◆ The airbag unit must be renewed if any contamination such as oil, grease, paint or solvent penetrates the fabric.
- ◆ Pyrotechnic components must not be subjected to temperatures above 100 °C even for short periods.

Special instructions for driver and front passenger airbags

- ◆ Removed driver and front passenger airbag units must be stored with padded side upwards.

It is essential to carry out work in the following sequence when renewing airbag units:

- 1 - Remove old airbag unit and place to one side with padded side upwards.
- 2 - Remove new airbag unit from transport packaging and place to one side with padded side upwards.
- 3 - Immediately place old airbag unit in transport packaging.
- 4 - Install new airbag unit in vehicle.

Special instructions for belt tensioners

- ◆ Belt tensioner units must be handled with extreme caution during removal and installation. If handled incorrectly, there is a high risk of injury and damage in relation to the belt tensioner units.
- ◆ Belt tensioner units which are mechanically damaged (dents, fractures) always must be renewed.
- ◆ Never point open end of belt tensioner at another person.
- ◆ When connecting the belt tensioner unit, all mechanical parts (including those of the 3-point seat belt) must be properly attached. If connection of the belt tensioner unit is hindered due to tight conditions, the belt strap must be rolled up completely before connecting. In this case there is no heightened risk of safety as long as the additional safety instructions are heeded. Essentially this is aimed at battery disconnection and electrostatic discharge of the fitter prior to connection of the belt tensioner unit.
- ◆ Depending on the crash intensity, it is possible that the belt tensioner was triggered but the belt force limiter did NOT ignite. These parts are to be treated as unignited components!

1.3 Storage, transportation and disposal of airbag, belt tensioner and battery isolator units (pyrotechnic components)

- ◆ Storage must comply with the relevant national legislation.
- ◆ Transportation is subject to national and international regulations that govern packaging, marking, labelling and freight documentation in detail.



- ◆ Untriggered pyrotechnic components must be disposed of correctly in the original packaging in accordance with national legislation. Contact your importer if in any doubt.
- ◆ Only completely ignited pyrotechnic components may be disposed of through the commercial waste system.



WARNING

- ◆ *This does not apply to belt tensioners which are operated by a Wankel type pump. Those must be disposed of like pyrotechnic components which were not triggered (e.g. airbags, seat belts, pyrotechnic battery isolators).*
- ◆ *Reason: On belt tensioners which are operated by a Wankel type pump it is not possible to verify, using workshop means, if all igniters have been triggered.*

1.4 Additional safety regulations for side airbag

- ◆ The use of genuine seat covers is recommended.
- ◆ Under no circumstances may seat covers be fitted which have not been specifically approved for use on Volkswagen seats with side airbags.
- ◆ The foam padding in the seat backrest must not be cut away in the vicinity of the side airbag.
- ◆ When installing, make sure the seam for the side airbag is straight.
- ◆ All cushion clips (metal and plastic clips) must be renewed.
- ◆ The use of genuine padding clips is recommended.
- ◆ When installing, all cushion clips must be fitted in the same positions as the original ones.
- ◆ If the seat cover fabric is damaged (tears, burn marks, etc.) in the vicinity of the side airbag, the cover must always be replaced for safety reasons, as otherwise the side airbag will not inflate properly.
- ◆ Repairs may not be carried out on the backrest cover in the area of the side airbag (because of the special thread and precisely defined seam).
- ◆ Always renew the backrest cushion after the side airbags have been triggered.
- ◆ All damaged components must be renewed after an accident. The original airbag unit can still be used if no signs of damage are found.
- ◆ If side airbag units are renewed, the sticker for the airbag number must be removed from the new side airbag unit and stuck over the old sticker on the seat pan.
- ◆ Never poke upholstery needles or any other sharp objects through the seat cover fabric in the vicinity of the airbag, seat occupied sensor, front passenger side -G128- and the seat occupied sensor mat.

1.5 Additional safety instructions for curtain airbag

- ◆ Inspect trims for damage prior to installing them.



- ◆ Repair work on trims is not permissible (upper A-pillar trim, B-pillar trim, C-pillar trim and D-pillar trim).
- ◆ Ensure proper seating of trims when installing them.
- ◆ When performing repair work behind the curtain airbag, always remove the entire module.
- ◆ To prevent any potential damage during removal and installation, curtain airbags must be handled with extreme caution.
- ◆ Place removed curtain airbag modules in packaging or on a clean, flat surface on a cover.
- ◆ After bodywork repairs in vicinity of curtain airbag, check body for weld spray droplets, deformations and areas of chafing (compare with opposite side if necessary).
- ◆ Until the gas generator is screwed in place, always hold it firmly by hand when handling (transportation, removal and installation, etc.).
- ◆ Never twist, kink, throw, shake, pull, hang, squeeze, press, pinch or clamp any curtain airbag modules.
- ◆ Folding is acceptable as long as no damage is caused (in particular to the protective sleeve).

1.6 Safety regulations for crash sensors (pressure sensors) for front side airbags

The side airbag crash sensors respond to changes in pressure and must therefore be treated with particular caution. Please note and comply with the following:

- ◆ The correct installation position is vitally important: only install in the specified location in the door.
- ◆ Protect the crash sensor against mechanical shocks and impacts: any crash sensors which have been dropped must no longer be used. Remove the crash sensor when carrying out work on the door bodywork.
- ◆ The crash sensor is matched to the volume of air inside the door: deformation of the door, resulting in a reduction in the air space in the door, impairs the function of the crash sensor.
- ◆ Avoid any major soiling of the crash sensor: do not use compressed air in the vicinity of the crash sensor. Protect the crash sensor against filings or bore chips (example, during retrofitting of door speakers). Do not use cavity sealants or spray oil in the vicinity of the crash sensor.
- ◆ Protect against heat/cold: avoid heat effects, for example during spray painting or other bodyshop operations. The crash sensors must not be exposed to temperatures below -40°C (for example in non-air-conditioned aircraft holds).
- ◆ The crash sensor must be protected against humidity during storage and installation.

For the crash sensor to function properly, it is vital to ensure that the door forms an effective seal after being fitted. Please note and comply with the following:

- ◆ All components (e.g. cover, speakers, door trim) must be correctly fitted.
- ◆ The door trim retaining clips seal the system. If necessary, renew the retaining clips.

1.7 Additional safety instructions for repair work on seat occupied recognition for



front passenger airbag deactivation - country-specific

- ◆ Basic settings of seat occupied recognition control unit must be performed after each repair to front passenger seat in which the seat and/or the backrest was »detached« ⇒ Vehicle diagnostic tester.
- ◆ The mat of the seat recognition sensor must not be kinked.
- ◆ The components of the seat occupied recognition (repair kit) must not fall on hard surfaces, come into contact with grease or be damaged by pointed/sharp objects.
- ◆ The mat, the fleece and all other covers must fitted without folds/creases.
- ◆ During installation, care must be taken to install seat padding and seat cover in correct installation position.
- ◆ Renew all padding clips or other clips and ensure they are positioned correctly on the seat.
- ◆ Ensure that no object is on the seat before and/or during the basic settings.
- ◆ The use of additional items on the seat, such as cushions or similar, impairs the functioning of the seat occupied recognition system and can therefore prevent the airbag system from functioning correctly.

1.8 Measures for seat occupied recognition for front passenger airbag deactivation following an accident - country-specific

- ◆ When an airbag or belt tensioner was triggered, basic settings of seat occupied recognition control unit must always be performed ⇒ Vehicle diagnostic tester.
- ◆ If the seat rail and/or seat pan are renewed after an accident due to deformation, the seat occupied recognition must also be renewed. After that, perform "basic settings" of seat occupied recognition control unit ⇒ Vehicle diagnostic tester.

1.9 Renewing pyrotechnic, electrical and mechanical components of the restraint system after an accident

Special tools and workshop equipment required

- ◆ Vehicle diagnostic tester



Note

- ◆ *The airbag control unit can be used for up to 2 side airbag and/or belt tensioner deployments with the airbag generation 8.* »not 8.R«.*
- ◆ *The airbag control unit can be used for up to 2 deployments of side airbag/driver airbag/front passenger airbag and/or belt tensioner with the airbag generation 9.*, 10.* and 8.R.*
- ◆ *After the third deployment, the error message "Control unit faulty" is displayed.*



The airbag control unit must be renewed:

- ◆ In the event of a driver/front passenger airbag deployment "though not for airbag generation 9.* , 10.* and 8.R "
⇒ [page 7](#)
- ◆ After 3 deployments of side airbag/driver airbag/front passenger airbag and/or belt tensioner
- ◆ In the event of damage to the housing
- ◆ In the event of a deformation to the tunnel within a 200 mm radius of the control unit

Always renew the following:

- ◆ All triggered airbag units.

If front passenger airbag was triggered, also renew:

- ◆ Dash panel
- ◆ Supports for front passenger airbag unit which have been bent out of shape (must not be bent back into shape)
- ◆ All sensors for front airbag at front end
- ◆ Remaining sensors for lateral acceleration in event of deformation of attachment points in vicinity of sensors

If driver airbag was triggered, also renew:

- ◆ Return spring with slip ring
- ◆ All sensors for front airbag at front end
- ◆ Remaining sensors for lateral acceleration in event of deformation of attachment points in vicinity of sensors

If side airbag(s) were triggered, also renew:

- ◆ Pressure sensors on the triggered side
- ◆ Lateral acceleration sensors on the side affected
- ◆ Seat cover
- ◆ Padding
- ◆ In case of foldable backrest: side cushion (if fitted)
- ◆ Remaining sensors for lateral acceleration in event of deformation of attachment points in vicinity of sensors

Additionally:

- ◆ All belt inertia reels with triggered belt tensioners
- ◆ All belt inertia reels with triggered belt tensioners
- ◆ Belt buckles for all belt inertia reels with triggered belt tensioners and seat belt engaged
- ◆ Belt height adjuster (mechanical and electrical) for all belt inertia reels with triggered belt tensioners and seat belt engaged
- If you suspect that belt tensioners or belt force limiters have been triggered, connect a vehicle diagnostic tester .
- Under "15 - Airbag" in »Guided Fault Finding« check whether there is a crash entry logged for the airbag control unit.
- At the same time check whether the "Resistance too high" fault is also logged for belt tensioners and/or belt force limiters. Triggered belt tensioners and/or belt force limiters have to meet both conditions. "Prerequisite: The airbag control unit has not yet been renewed".



Note

- ◆ The "Resistance too high" fault can also be logged in the event of a cable break. Under normal circumstances, no crash entry is then logged.
 - ◆ Depending on the crash intensity, it is possible that the belt tensioner was triggered but »NOT« the belt force limiter. In that case, note the instructions for the disposal of pyrotechnic components ⇒ [page 4](#) .
 - ◆ In addition, note the section: Checking seat belts ⇒ [page 10](#) .
- If parts of the belt system are removed because of an accident, the belt system bolts must be renewed.
 - In addition, the following must also be replaced if necessary (visual check): all damaged components.
 - After renewing the airbag units or the control unit, affix stickers (only tear-off strips) to the registration card and return the registration card to the responsible Sales Centre or to the Importer for registration.

1.10 Checking airbag securing parts after an accident

All damaged securing parts must always be renewed. It is not permissible to bend the components back into shape or »make them fit«.

The following components must be checked after the relevant airbag has been triggered.

If front passenger airbag was triggered:

- ◆ Central tube for dash panel; it must be possible to install the supports for the front passenger airbag and front passenger airbag unit tension-free. Otherwise the central tube must also be renewed.
- ◆ Check the glove compartment for damage. Renew it if damaged.

If driver airbag was triggered:

- ◆ Steering wheel: remove the steering wheel and place on a flat surface together with the steering collar. The full face of the steering collar must be in contact with the flat surface. Otherwise the steering wheel must be renewed.
- ◆ Check steering wheel for smoke residues. If any smoke residues are found, the steering wheel must be renewed.

1.11 Accident without airbag triggering

- ◆ If airbag warning lamp -K75- does not indicate a fault, there is no requirement to renew pyrotechnic components. The seat belts should be checked separately.



1.12 Checking seat belts



WARNING

The seat belt system must be inspected systematically after every accident! If damage is determined at any of the points to be checked, customer must be informed regarding necessity of changing belts.

Points to check

- ◆ Check belt webbing ⇒ [page 10](#) .
- ◆ Check inertia reel (locking mechanism) ⇒ [page 11](#) .
- ◆ Visually check belt buckle ⇒ [page 11](#) .
- ◆ Check operation of belt buckle ⇒ [page 11](#) .
- ◆ Check belt guide fittings and latch plates ⇒ [page 12](#) .
- ◆ Check securing parts and anchorage points ⇒ [page 12](#) .



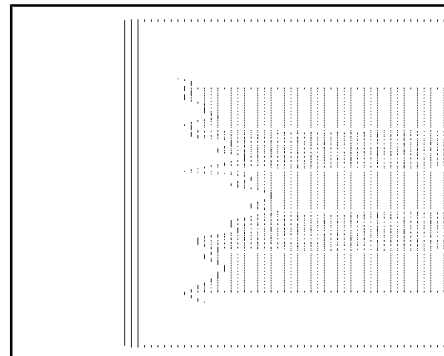
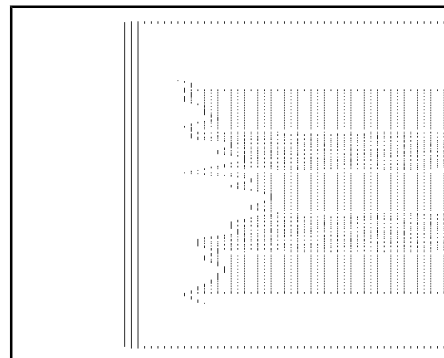
Caution

If the customer refuses to have a damaged seat belt renewed, an appropriate comment should be made in the service notes.

1.13 Checking belt webbing

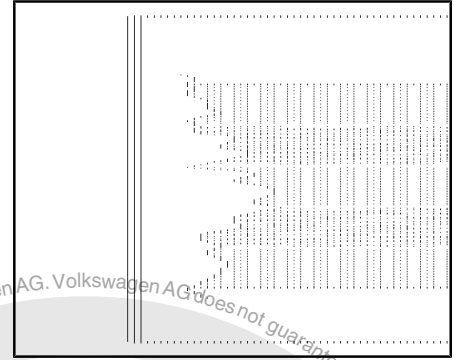
Procedure

- Pull belt completely out of inertia reel or lap belt adjustment plate.
- Check belt webbing for soiling, and if necessary wash with a mild soapy solution ⇒ Owner's Manual .





- If either of the types of damage illustrated below (1 and 2) are determined on accident vehicle, renew seat belt complete with belt buckle.
- If damage as illustrated under points 1, 2 or 3 is determined on a vehicle which has not been involved in an accident, it is sufficient to renew damaged belt only.
- 1 - Belt webbing cut, torn or chafed.
- 2 - Torn webbing loops on belt edge.
- 3 - Burns caused by cigarettes or similar.



1.14 Checking inertia reel (locking mechanism)

The inertia reel has two locking functions.

- ◆ The first locking function is triggered by the belt being jerked out of the reel (belt extension acceleration).

Test 1

- Pull belt out of inertia reel with firm jerk.
- Will not lock - renew seat belt complete with buckle.
- If difficulties are experienced when belt is extended or retracted, first check whether position of inertia reel has been altered.
- The second locking function is triggered by a change in vehicle speed (vehicle-dependent locking function).

Test 2



WARNING

For safety reasons, the road test should be carried out on a traffic-free stretch to ensure that other road users are not endangered.

- Put on seat belt.
- Accelerate vehicle to 20 km/h and then carry out emergency braking with foot brake.
- If seat belt is not locked by locking mechanism during braking procedure, renew seat belt complete with buckle.

1.15 Visually checking belt buckle

- Inspect belt buckle for cracks and chips.
- If damage is determined, renew seat belt complete with belt buckle.

1.16 Checking operation of belt buckle

Checking belt buckle

- Push latch plate into belt buckle until it engages audibly. Check whether locking mechanism is properly engaged by pulling firmly on belt webbing.
- If latch plate fails even once to engage properly in belt buckle during at least 5 tests, renew seat belt complete with belt buckle.



Checking release mechanism

- Release seat belt by pressing button on belt buckle with finger pressure. When belt is slack, latch plate must spring out of belt buckle on its own.
- Carry out test at least 5 times. If latch plate fails even once to spring out of buckle, renew seat belt complete with belt buckle.



WARNING

Under no circumstances whatsoever may lubricant be used to eliminate noise or stiffness in belt buckle buttons.

1.17 Checking belt guide fittings and latch plates

Plastic-coated fittings show fine, parallel scoring after stress on belt system (when belt was fastened during accident). (On the other hand, wear caused by frequent belt use can be recognized by smooth wear, free of lines.)

- Inspect for deformation, fracturing and cracks in plastic.
- If scoring and/or damage is determined, renew seat belt complete with belt latch.

1.18 Checking securing parts and anchorage points after an accident

- ◆ Latch plate deformed (stretched)
- ◆ Height adjustment does not function.
- ◆ Anchorage points (seat, pillars, vehicle floor) distorted or thread damaged.
- If damage is determined on these parts, renew seat belt complete with belt buckle.
- If parts of the belt system are removed because of an accident, the belt system securing bolts must be renewed.
- Renew anchorage points.



Note

In the case of damage resulting not from an accident but, for example, from wear, only the part which is actually damaged need be renewed.

1.19 Checking child seat anchors after an accident

Points to check

- ◆ Child seat anchors must be checked for damage and deformation after an accident.
- ◆ Child seat anchors welded to the bodywork or the seats/backrests or bolted in place may not be repaired or straightened.
- ◆ Child seat anchors bolted to the bodywork or the seats/backrests must be renewed in the event of damage or deformation.
- ◆ Child seat anchor securing bolts must be renewed if the bracket is damaged.



1.20 Safety instructions for automatically dimmable interior mirror



WARNING

- ◆ *The mirror glass is made of several layers and contains an electrolyte to achieve the dimming functionality. Beware of liquid electrolyte which runs out of a broken mirror glass.*
- ◆ *The liquid electrolyte can irritate skin, eyes and respiratory organs.*
- ◆ *If liquid electrolyte got into your eyes or onto the skin, wash it immediately with plenty of water. If the irritation continues, seek advice from a doctor immediately.*



Caution

If liquid electrolyte which ran out of a broken mirror glass comes in contact with plastic surfaces, the surfaces will be damaged. Wipe off spilled electrolyte immediately using clear water and a sponge.



2 Repair instructions

⇒ [“2.1 Contact corrosion”, page 14](#)

⇒ [“2.2 Routing and securing wires”, page 14](#)

2.1 Contact corrosion

Contact corrosion can occur if unsuitable fastening elements (screws, bolts, nuts, washers) are used.

For this reason, only connecting elements with a special surface coating have been fitted.

In addition, rubber, plastic and adhesives are made of non-conductive materials.

In case of doubt about the reusability of parts renew them ⇒ Electronic parts catalogue .

Observe the following:

- ◆ It is recommended to use only genuine parts, since only genuine parts are approved.
- ◆ The use of VW parts is recommended.
- ◆ Damage due to contact corrosion is not covered by the warranty.

2.2 Routing and securing wires

If hydraulic, pneumatic or electrical wires are disconnected or removed and installed, make corresponding drawings or photos. This guarantees that everything is re-installed in its original position.



68 – Interior equipment

1 Compartments/covers

⇒ [“1.1 Removing and installing storage compartment”, page 15](#)

⇒ [“1.2 Removing and installing steering column trim”, page 15](#)

⇒ [“1.3 Removing and installing left dash panel cover on driver side”, page 17](#)

⇒ [“1.4 Removing and installing glove compartment”, page 18](#)

⇒ [“1.5 Removing and installing glove compartment lock cylinder”, page 20](#)

⇒ [“1.6 Removing and installing decorative trim on glove compartment”, page 21](#)

1.1 Removing and installing storage compartment

Removing

- Switch off ignition.

Vehicles with automatic gearbox

- Release gearstick collar from cover ⇒ Rep. gr. 37 .

Vehicles with manual or dual clutch gearbox

- Gearstick collar from cover ⇒ Rep. gr. 34

All vehicles

- Unscrew 2 bolts -3- (1.5 Nm).
- Remove storage compartment -1- from centre console -2- and, depending on the vehicle equipment, disconnect wiring harnesses.

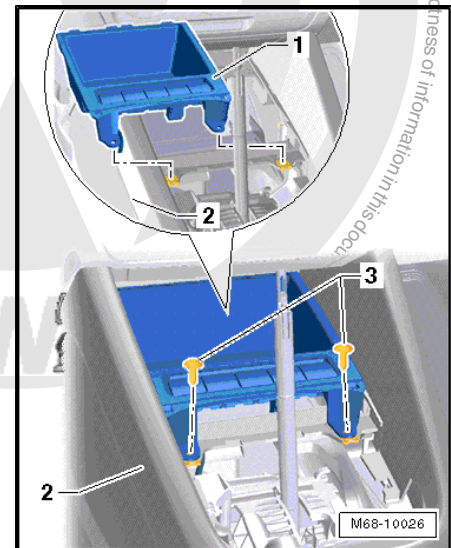
Installing

- Install in reverse order of removal.



Note

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

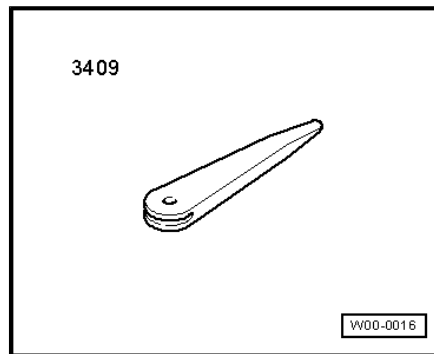


1.2 Removing and installing steering column trim

Special tools and workshop equipment required



- ◆ Removal wedge -3409-

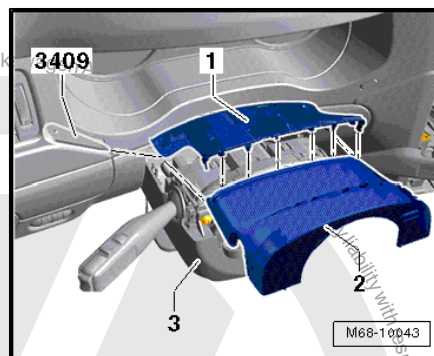


Note

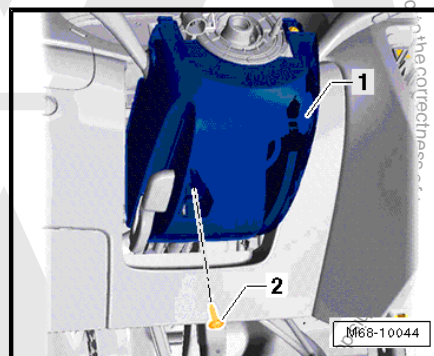
For greater clarity, steering wheel is not shown in figure. Its removal is not necessary.

Removing

- Release locking lever of steering wheel positioner.
- Pull out steering column and press it downwards.
- Detach gap cover -1- from mountings of upper steering column trim -2-, using removal wedge -3409- .
- Release upper steering column trim -2- from mountings of lower steering column trim -3-, using removal wedge -3409-



- Unscrew bolt -2- from lower steering column trim -1- (1.5 Nm).

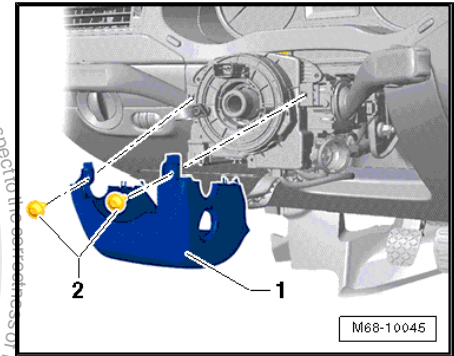




- Unscrew 2 bolts -2- (1.5 Nm). Turn steering wheel to gain access to bolts.
- Release locking lever of steering wheel positioner.
- Detach lower steering column trim -1- from mountings and remove from steering column.

Installing

- Install in reverse order of removal.



1.3 Removing and installing left dash panel cover on driver side



Note

For greater clarity, steering wheel is not shown in figure. Its removal is not necessary.

Removing

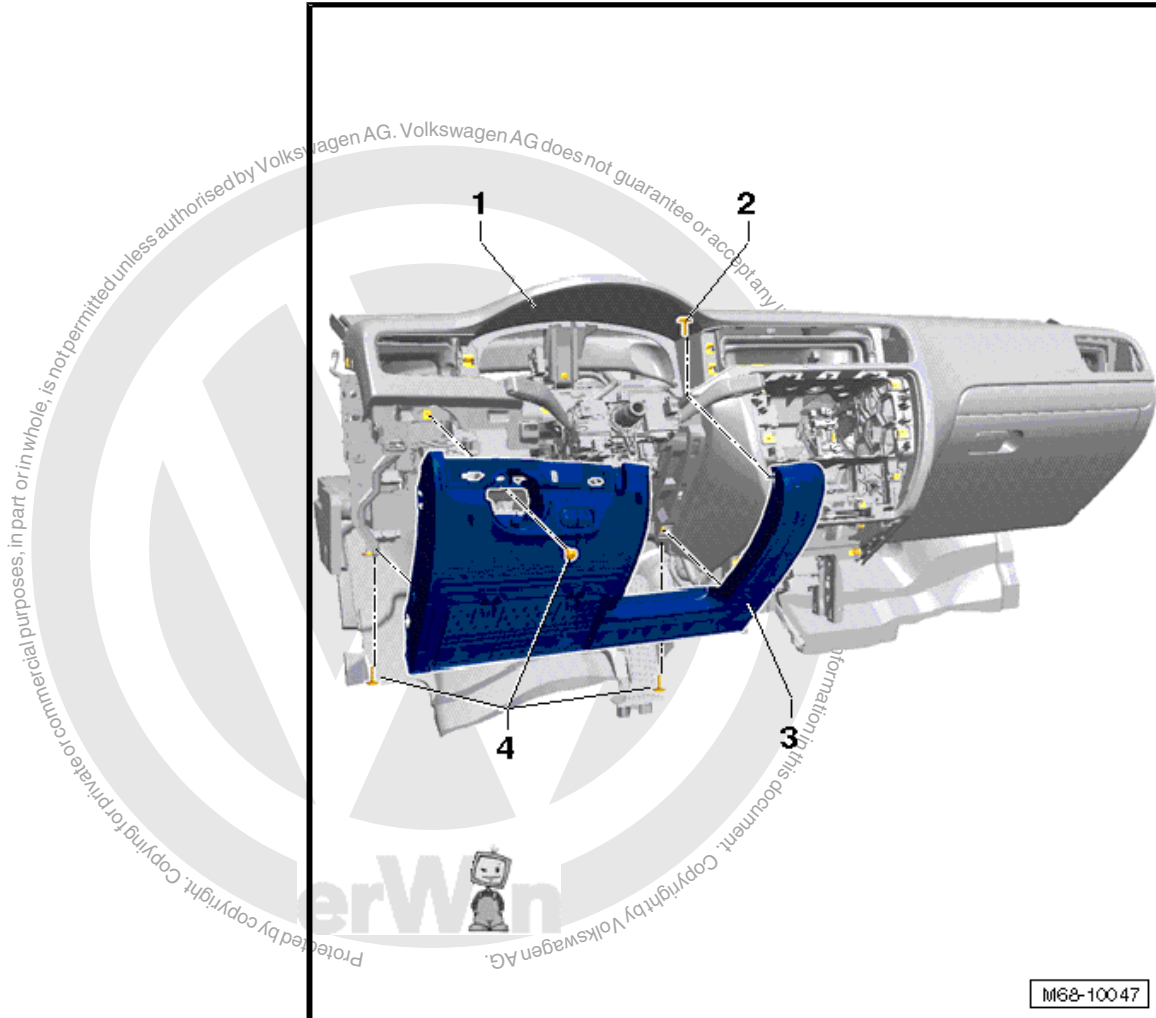
- Switch off ignition.
- Remove side dash panel cover on driver side ⇒ [page 163](#) .
- Remove dash panel insert trim, with left and middle dash panel vents ⇒ [page 164](#) .
- Push rotary light switch forwards, turn clockwise until vertical, then pull out and detach wiring harness.
- Remove bolt -2- (1.5 Nm).



Note

Bolt -2- has been discontinued at this position. It is now located beneath the cover.

- Undo bolts -4- (Qty. 3) (1.5 Nm).
- Release left dash panel cover on driver side -3- from dash panel -1-, at the same time disconnecting the wiring harness from headlight range control regulator -E102- .



Installing

- Install in reverse order of removal.



Note

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

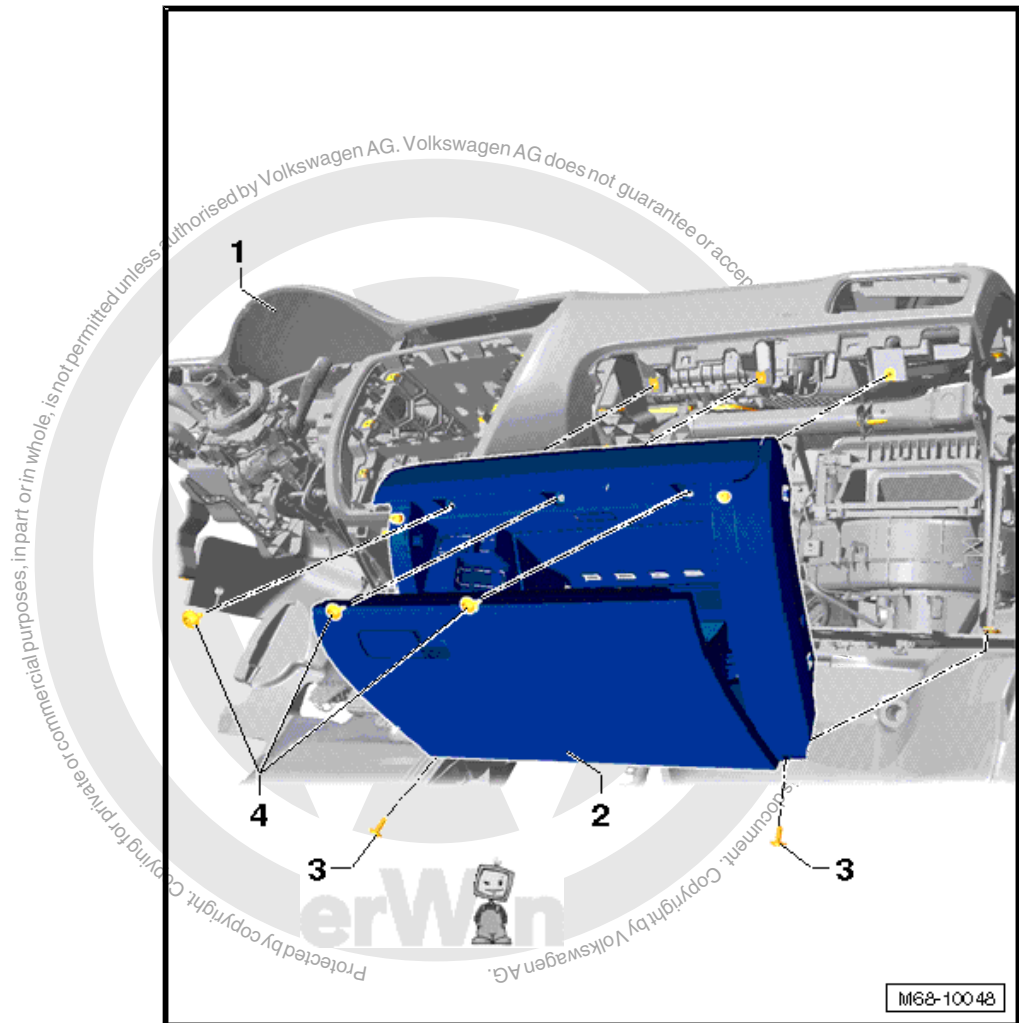
1.4 Removing and installing glove compartment

Removing

- Switch off ignition.
- Remove side dash panel cover on driver side ⇒ [page 163](#) .
- Remove bolts -3- (1.5 Nm).
- Open flap of glove compartment -2- and undo bolts -4- (1.5 Nm).
- Close flap of glove compartment -2- and detach complete glove compartment from dash panel -1-.



- Disconnect wiring harness from glove compartment light - W6- .
- Disconnect wiring harness from glove compartment light switch -E26- .
- In vehicles with a key operated switch to deactivate front passenger side airbag -E224- , disconnect wiring harness.
- In vehicles equipped with glove compartment cooling, disconnect air conditioning duct from glove compartment.
- In vehicles with footwell light, disconnect wiring harness from front right footwell illumination bulb -L152- .
- Remove glove compartment -2- from dash panel -1-.



Installing

- Install in reverse order of removal.



Note

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



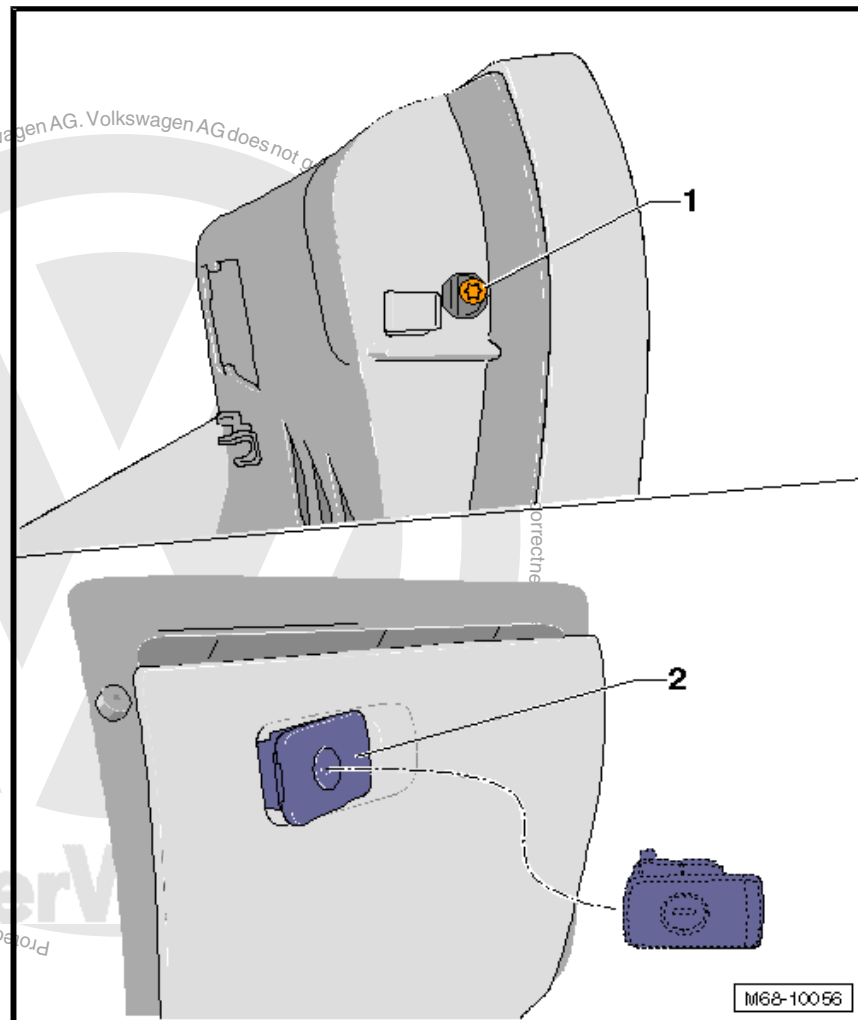
1.5 Removing and installing glove compartment lock cylinder

Removing



Note

- ◆ *It is not possible to remove the lock cylinder -1- separately. The opening button -2- must be replaced.*
 - ◆ *For easier removal of bolt -1- a magnetic screwdriver is required.*
- Open glove compartment.
 - Unscrew bolt -1- and remove unlocking button -2- from glove compartment cover.



Installing

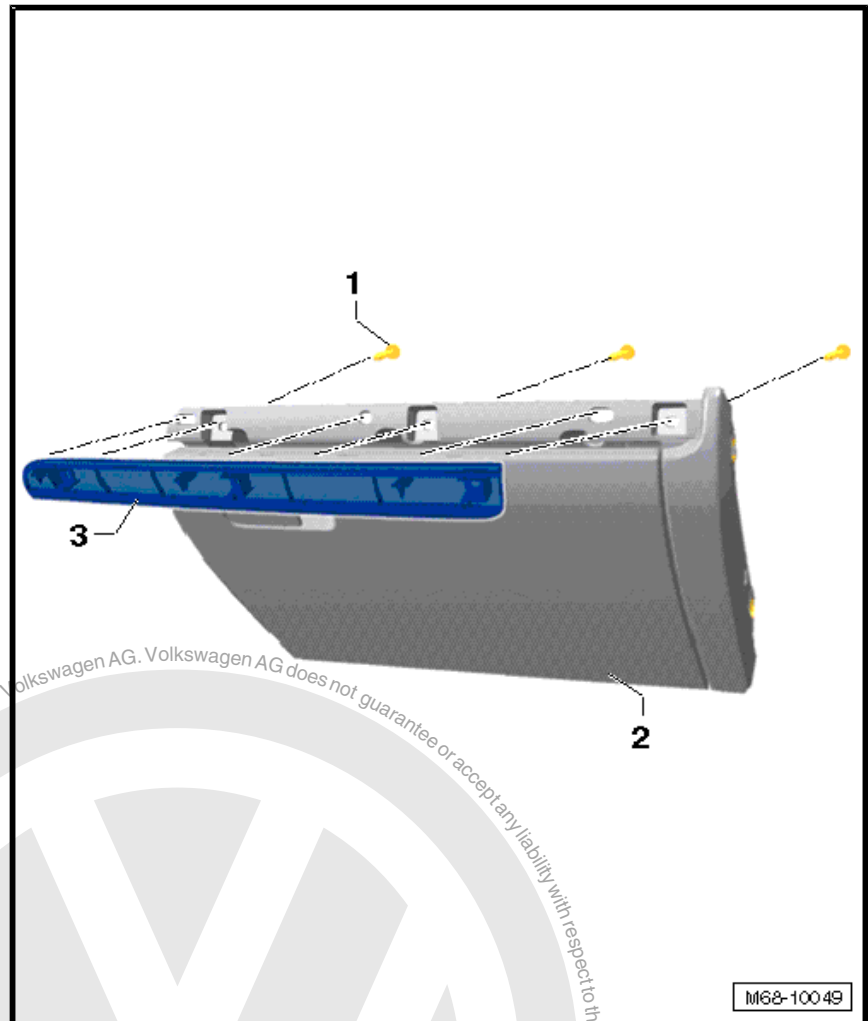
- Install in reverse order of removal.



1.6 Removing and installing decorative trim on glove compartment

Removing

- Remove glove compartment ⇒ [page 18](#) .
- Remove bolts -1- (1.5 Nm).
- Remove decorative trim -3- from glove compartment -2-.



Installing

- Install in reverse order of removal.



2 Equipment

⇒ [“2.1 Removing and installing sun visor”, page 22](#)

⇒ [“2.2 Removing and installing roof grab handle”, page 23](#)

⇒ [“2.3 Removing and installing roof grab handle bracket”, page 25](#)

2.1 Removing and installing sun visor

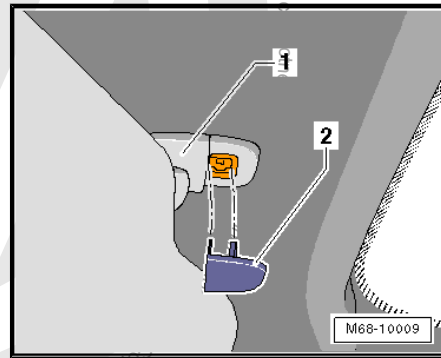


Note

*Removal and installation are described for the left vehicle side.
Follow same instructions for the right side as appropriate.*

Removing

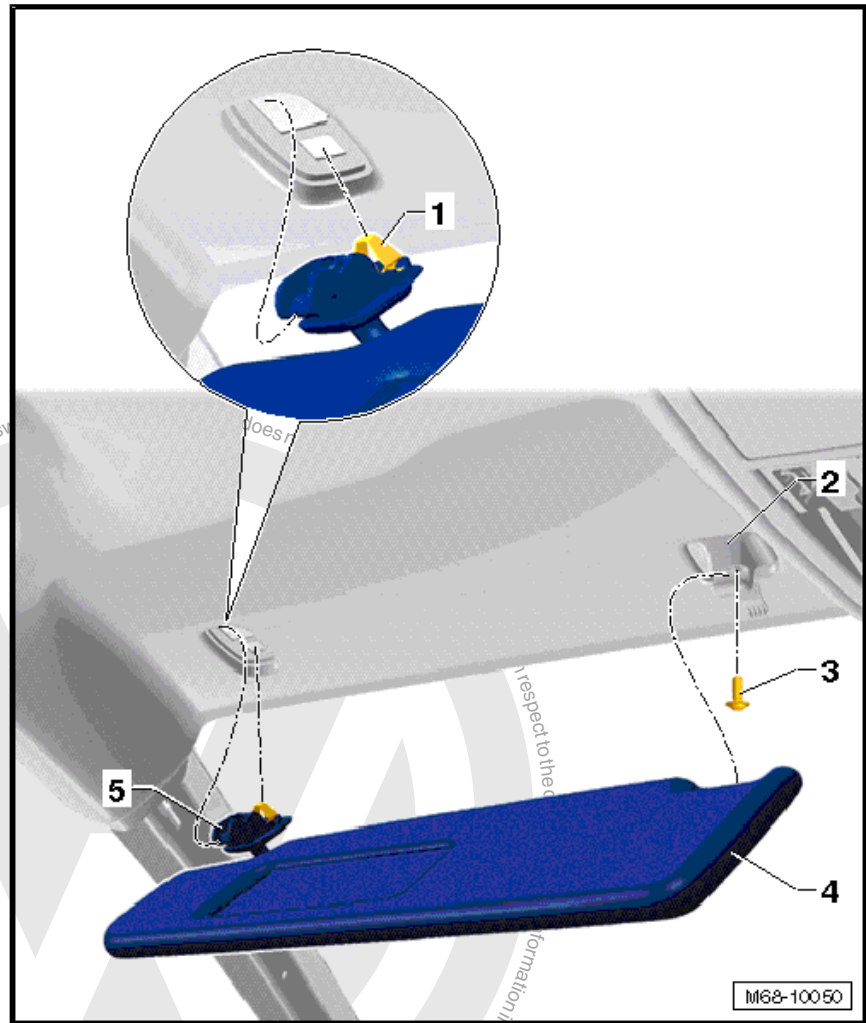
- Pull cover/catch -2- out of sun visor mount -1-.



Note

If the sun visor only requires removal then bolt -3- and sun visor bearing -2- need not be removed.

- Remove sun visor -4- from sun visor mount -2-.
- Release retaining clip -1- of sun visor mount -5- from locking mechanism.
- Guide sun visor mount -5- out of roof cross member and remove sun visor -4-.
- Open cover cap of sun visor mount -2- and undo bolt -3- (2.0 Nm).
- Guide sun visor mount -2- out of roof cross member.



Installing

- Install in reverse order of removal.



Note

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

2.2 Removing and installing roof grab handle



Note

The figure shows the front left grab handle, the removal and installation of the remaining grab handles is identical.

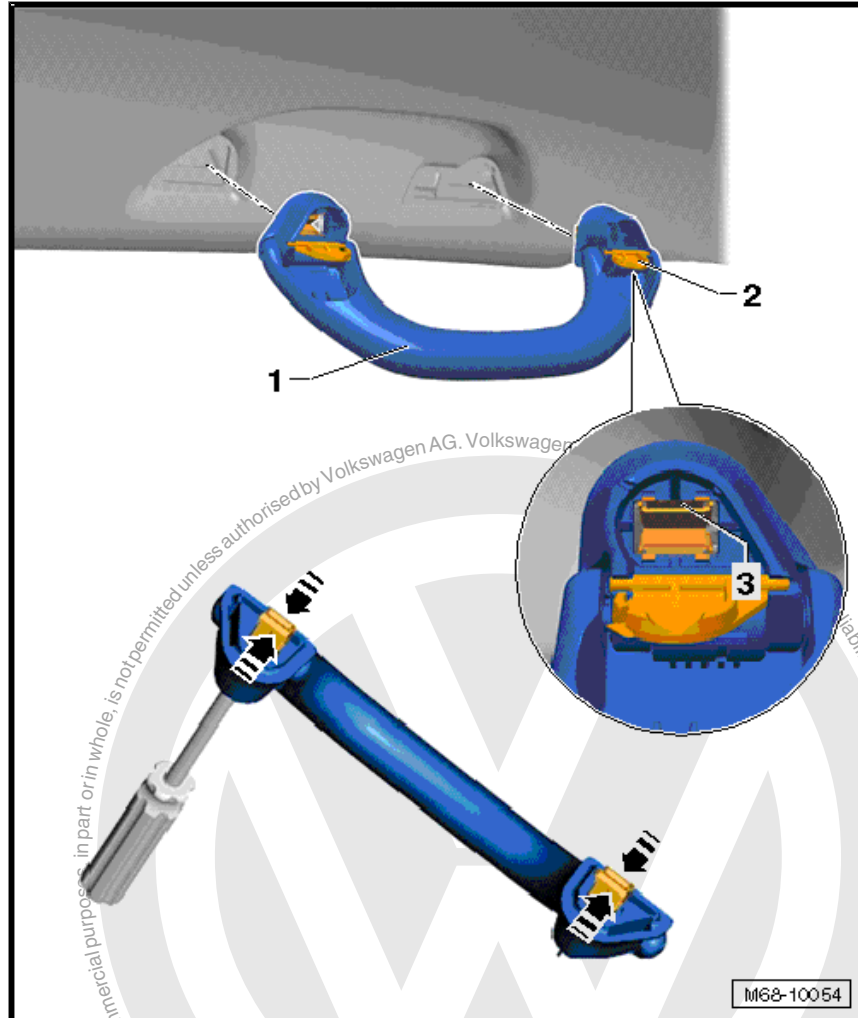
Removing

- Fold down roof grab handle -1- and open cover caps -2-.
- Release metal clips -3-, using release pliers -VAS 6427- , and remove roof grab handle from mountings.



Note

Alternatively, it is possible to release the clips with a screwdriver.



Installing

Install in reverse order of removal.



Note

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



2.3 Removing and installing roof grab handle bracket



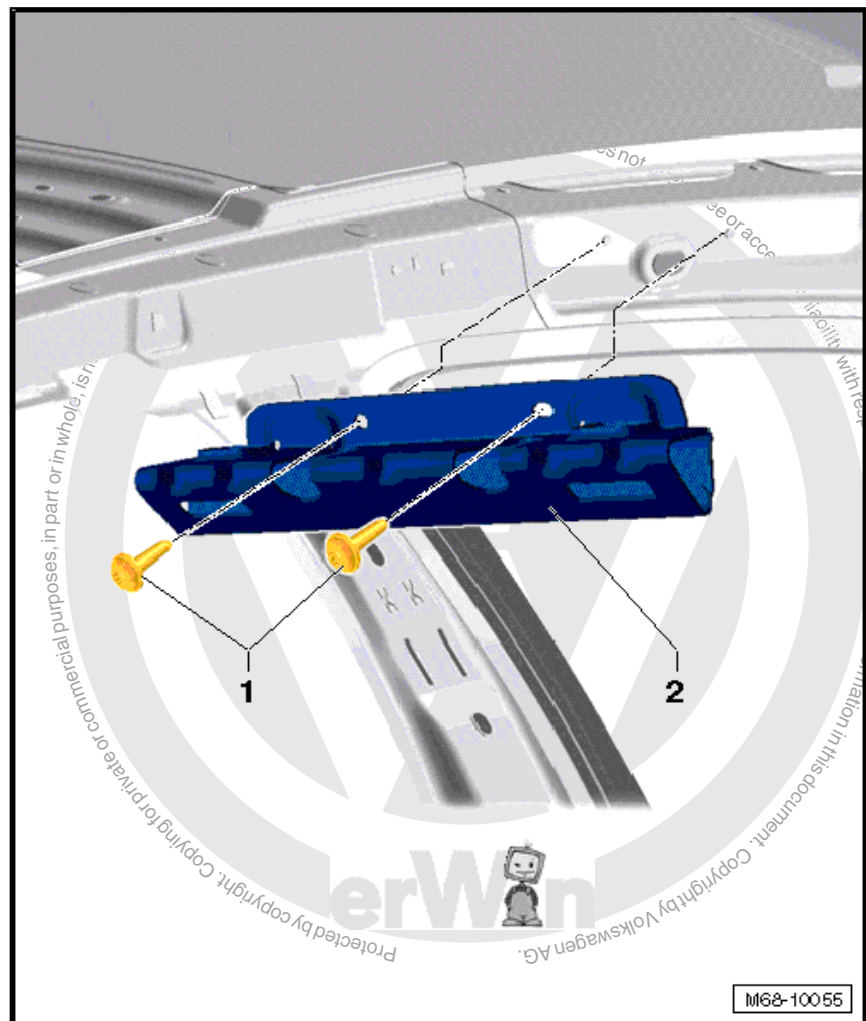
Note

The figure shows the front left grab handle bracket, the removal and installation of the remaining grab handle brackets is identical.

Removing

- Lower moulded headliner (releasing and fastening)
⇒ [page 233](#) .
- Unscrew bolts -1- (4.5 Nm) and remove bracket -2-.

Allocating installed brackets ⇒ Electronic parts catalogue "ETKA"



Installing

- Install in reverse order of removal.



3 Centre console

⇒ [“3.1 Removing and installing Basic centre console”, page 26](#)

⇒ [“3.2 Removing and installing Comfort and Highline centre console”, page 30](#)

⇒ [“3.3 Removing and installing rear trim of Comfort and Highline centre console”, page 34](#)

⇒ [“3.4 Removing and installing rear trim bracket of Comfort and Highline centre console”, page 36](#)

⇒ [“3.5 Removing and installing lid of rear storage compartment of Comfort and Highline centre console”, page 37](#)

⇒ [“3.6 Removing and installing centre console securing bracket”, page 38](#)

3.1 Removing and installing »Basic« centre console

Removing

- Switch off ignition.

Vehicles with automatic gearbox

- Move selector lever to position “N”.
- Release selector lever cover along with handle from cover ⇒ Automatic gearbox 09G - 6-gear; Rep. gr. 37 ; Selector mechanism .

Vehicles with manual gearbox

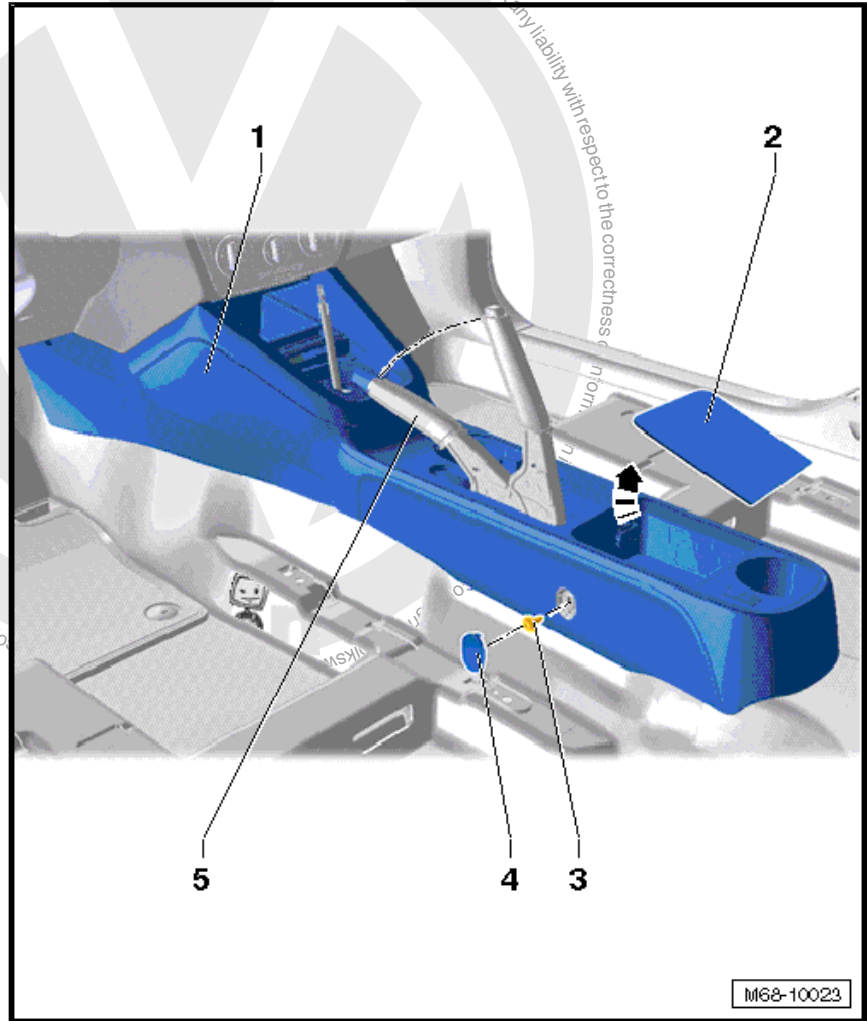
- Release boot along with gearstick knob from cover ⇒ Rep. gr. 34 ; Repairing selector mechanism .

Vehicles with dual clutch gearbox

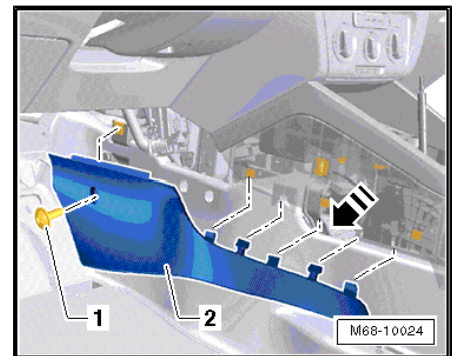
- Move selector lever to position “N”
- Release selector lever cover along with handle from cover ⇒ Dual clutch gearbox 02E; Rep. gr. 34 ; Selector mechanism .

All vehicles

- Remove handbrake lever trim ⇒ Brake system; Rep. gr. 46 ; Assembly overview - handbrake lever .
- Remove lining mat -2- from centre console -1- in -direction of arrow-.
- Unclip cover cap -4- on both sides and unscrew bolt -3- (1.5 Nm).
- Move handbrake lever -5- to highest position.

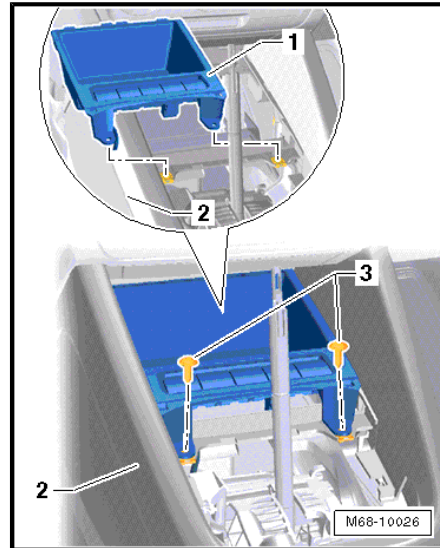


- Unscrew and remove bolt -1- on each side (1.5 Nm).

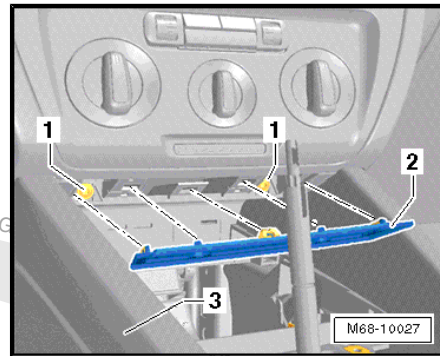




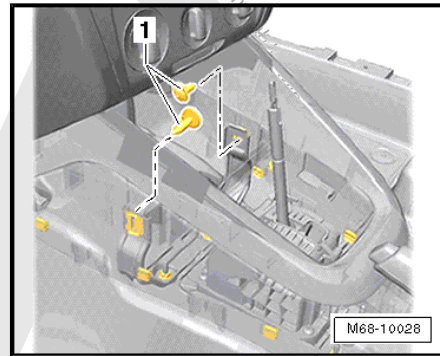
- Remove trim on each side -2- of centre console in -direction of arrow-.
- Unscrew 2 bolts -3- (1.5 Nm).



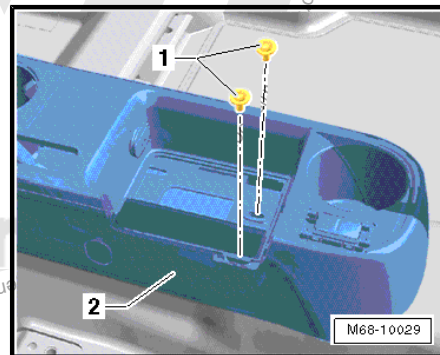
- Remove storage compartment -1- from centre console -2- and, depending on the vehicle equipment, disconnect wiring harnesses.
- Unclip trim -2- from centre console -3- using removal wedge -3409- .



- Unscrew 2 bolts -1- (1.5 Nm).

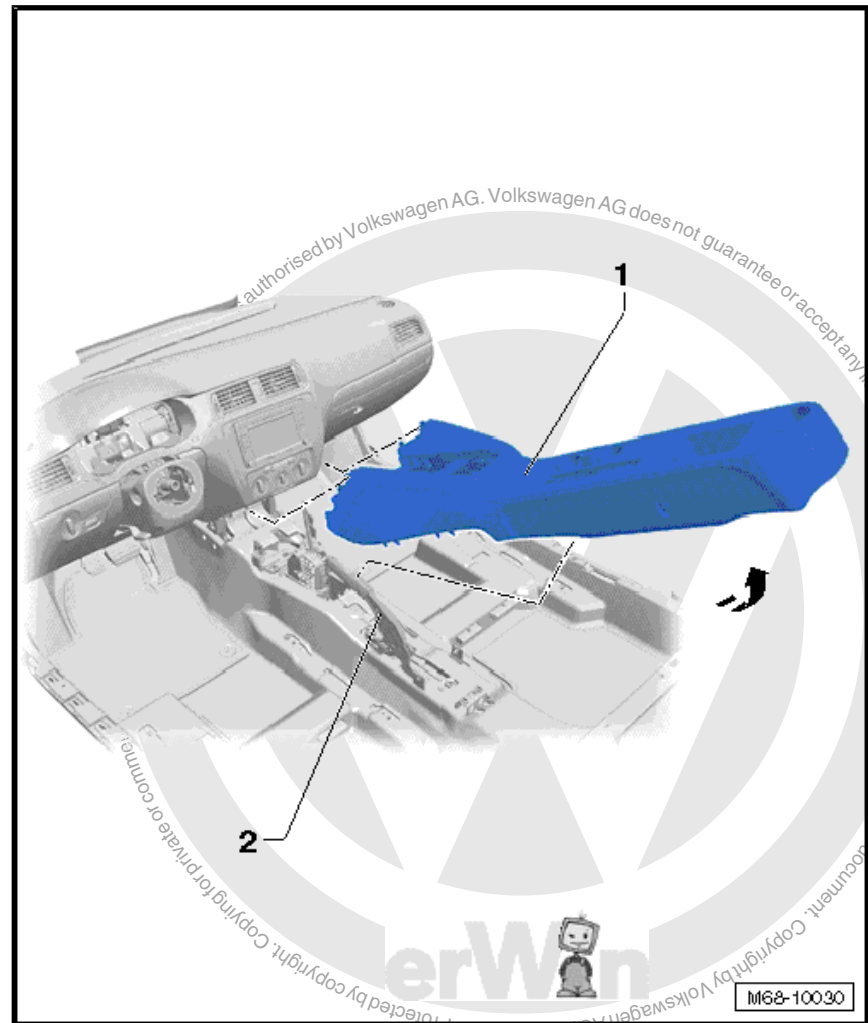


- Unscrew 2 bolts -1- (1.5 Nm).
- Unscrew and remove the 2 bolts -1- (1.5 Nm) in the rear part of the centre console -2-.





- Remove centre console -1- from vehicle in -direction of arrow-. When doing so, disconnect wiring harness from 12 V socket -U5- .



i Note

At this time, the handbrake lever -2- must be in its highest position.

Installing

- Install in reverse order of removal.

i Note

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



3.2 Removing and installing »Comfort and Highline« centre console

Removing

- Switch off ignition.

Vehicles with automatic gearbox

- Move selector lever to position "N".
- Release selector lever cover along with handle from cover ⇒ Automatic gearbox 09G - 6-gear; Rep. gr. 37 ; Selector mechanism .

Vehicles with manual gearbox

- Release boot along with gearstick knob from cover ⇒ Rep. gr. 34 ; Repairing selector mechanism .

Vehicles with dual clutch gearbox

- Move selector lever to position "N".
- Release selector lever cover along with handle from cover ⇒ Dual clutch gearbox 02E; Rep. gr. 34 ; Selector mechanism .

Vehicles with a CD changer

- Removing CD changer ⇒ Communication; Rep. gr. 91 ; CD changer .

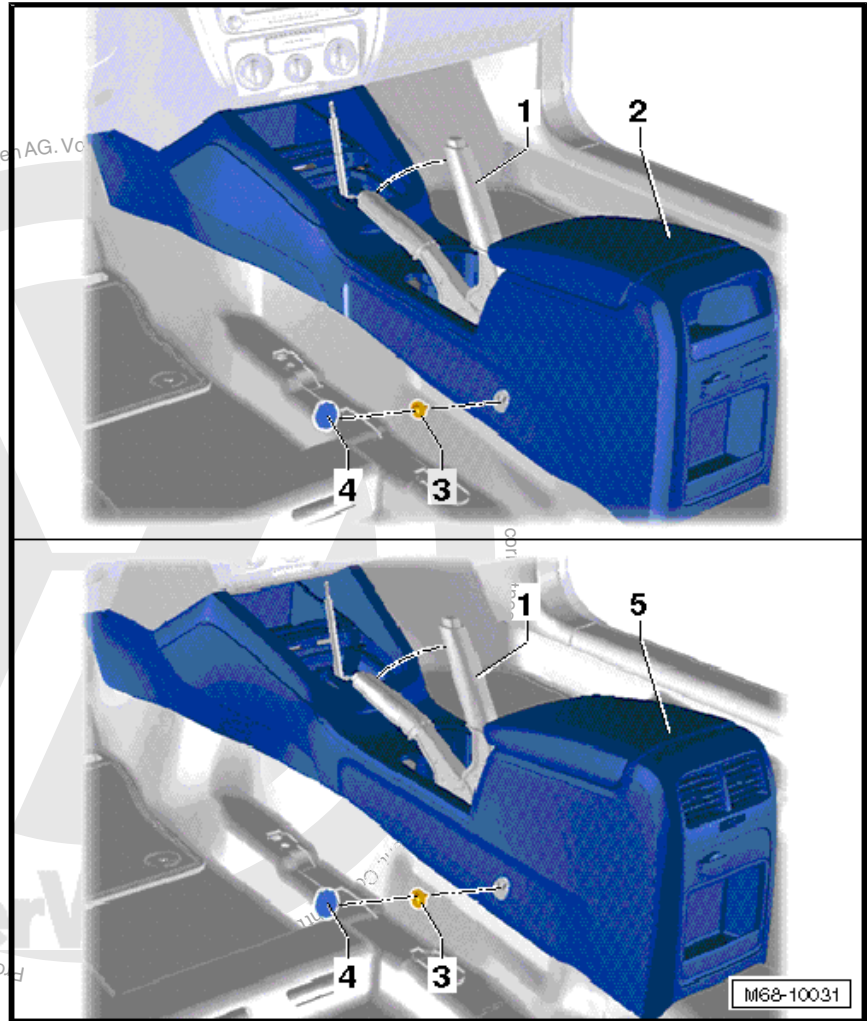
All vehicles

- Remove handbrake lever trim ⇒ Brake system; Rep. gr. 46 ; Assembly overview - handbrake lever .
- Unclip cover cap -4- on each side of centre console -2- or -5- undo bolt -3- (3.0 Nm).
- Move handbrake lever -1- to highest position.

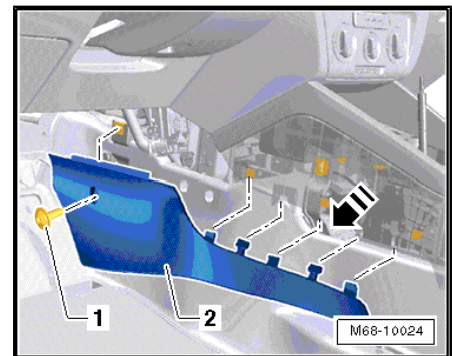




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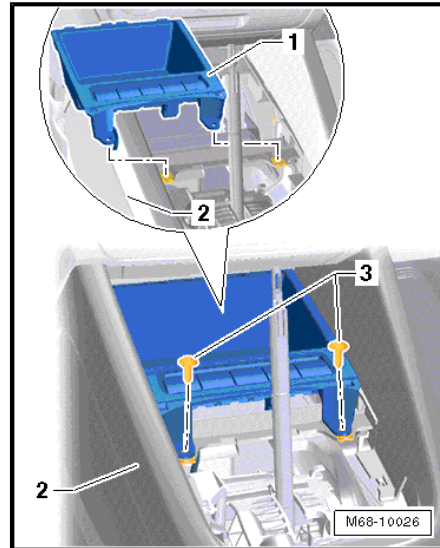


- Unscrew and remove bolt -1- on each side (1.5 Nm).

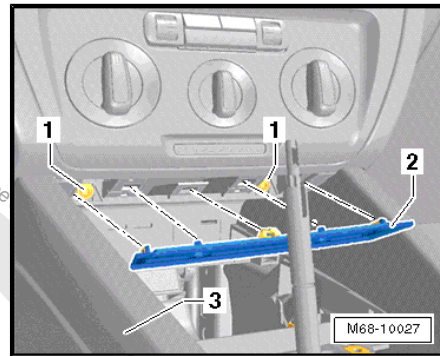




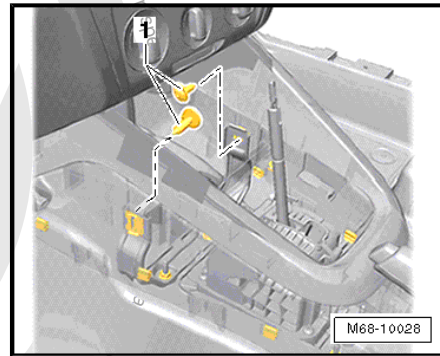
- Remove trim on each side -2- of centre console in -direction of arrow-.
- Unscrew 2 bolts -3- (1.5 Nm).



- Remove storage compartment -1- from centre console -2- and, depending on the vehicle equipment, disconnect wiring harnesses.
- Unclip trim -2- from centre console -3- using removal wedge -3409- .



- Unscrew 2 bolts -1- (1.5 Nm).
- Unscrew 2 bolts -1- (1.5 Nm).

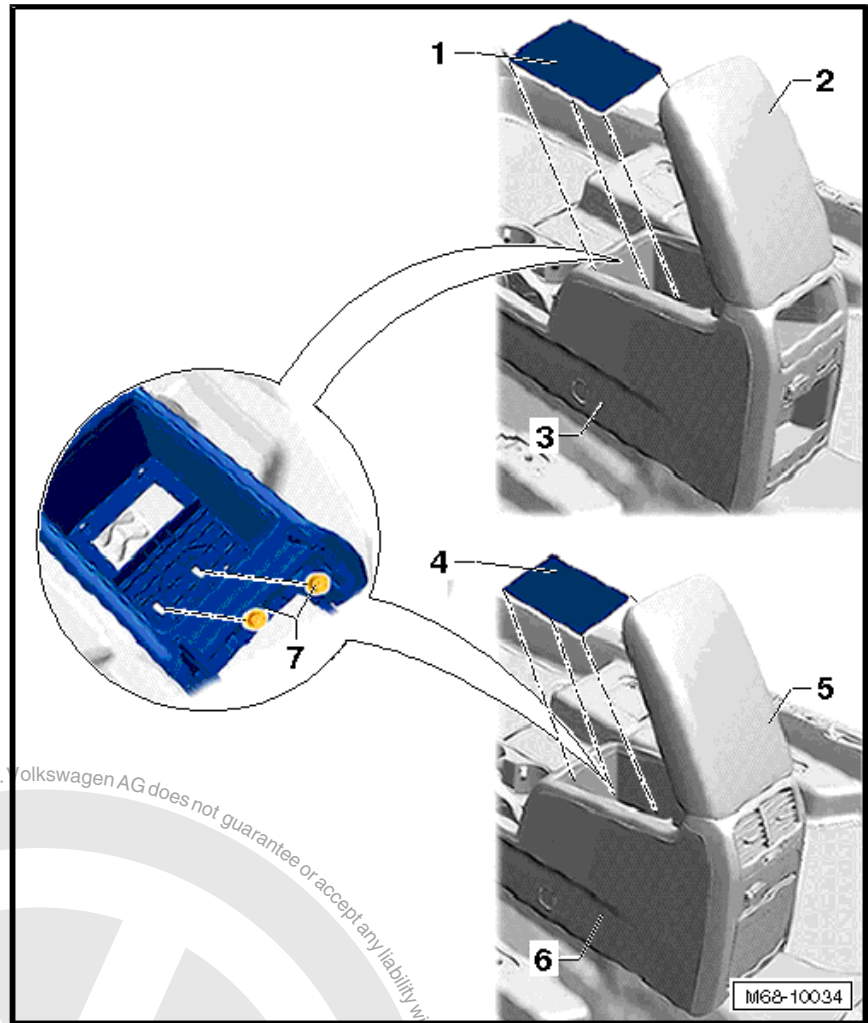


»Comfort« centre console

- Open lid of storage compartment -2- and remove lining -1- from centre console -3-.
- Unscrew 2 bolts -7- (3.0 Nm).
- Removing and installing rear trim of »Comfort« centre console ⇒ [page 34](#) .

»Highline« centre console

- Open lid of storage compartment -5- and remove lining -4- from centre console -6-.
- Unscrew 2 bolts -7- (3.0 Nm).
- Removing and installing rear trim of »Highline« centre console ⇒ [page 34](#) .



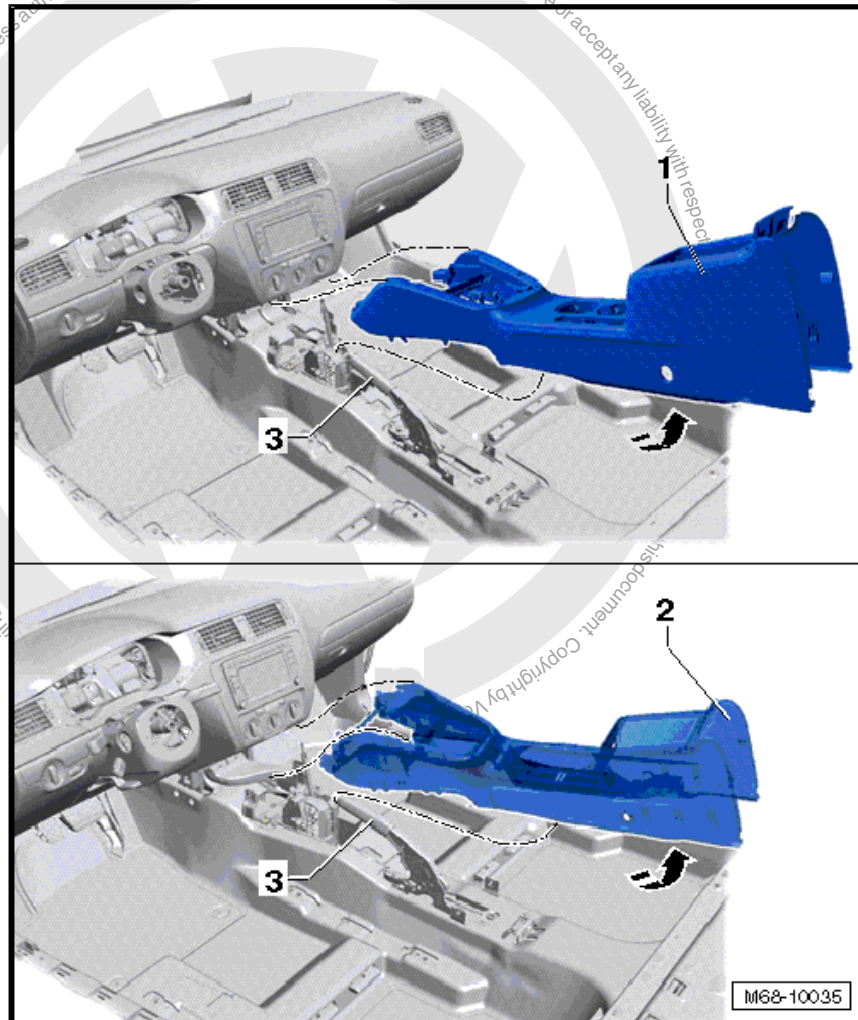
»Comfort« centre console

- Remove centre console -1- from vehicle in -direction of arrow-.

»Highline« centre console

- Remove centre console -2- together with air conduit from vehicle in -direction of arrow-.

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i Note

- ◆ At this time, the handbrake lever -3- must be in its highest position.
- ◆ The arm rest can remain installed when removing the centre console.

Installing

- Install in reverse order of removal.

i Note

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

3.3 Removing and installing rear trim of »Comfort and Highline« centre console

Removing

- Switch off ignition.

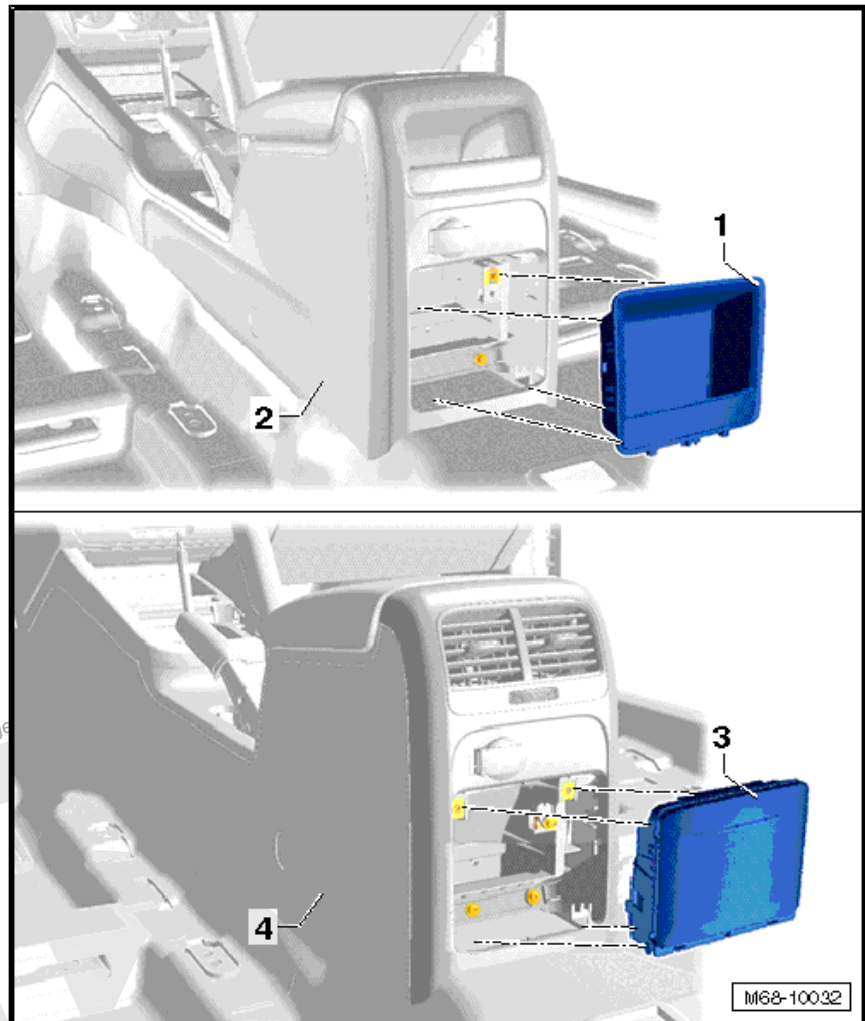


»Comfort« centre console

- Unclip trim -1- from centre console -2- using removal wedge -3409- .

»Highline« centre console

- Unclip inverter with socket 12 V-230 V -U13- -3- from centre console -4- using removal wedge -3409- .
- Disconnect wiring harness and remove component.



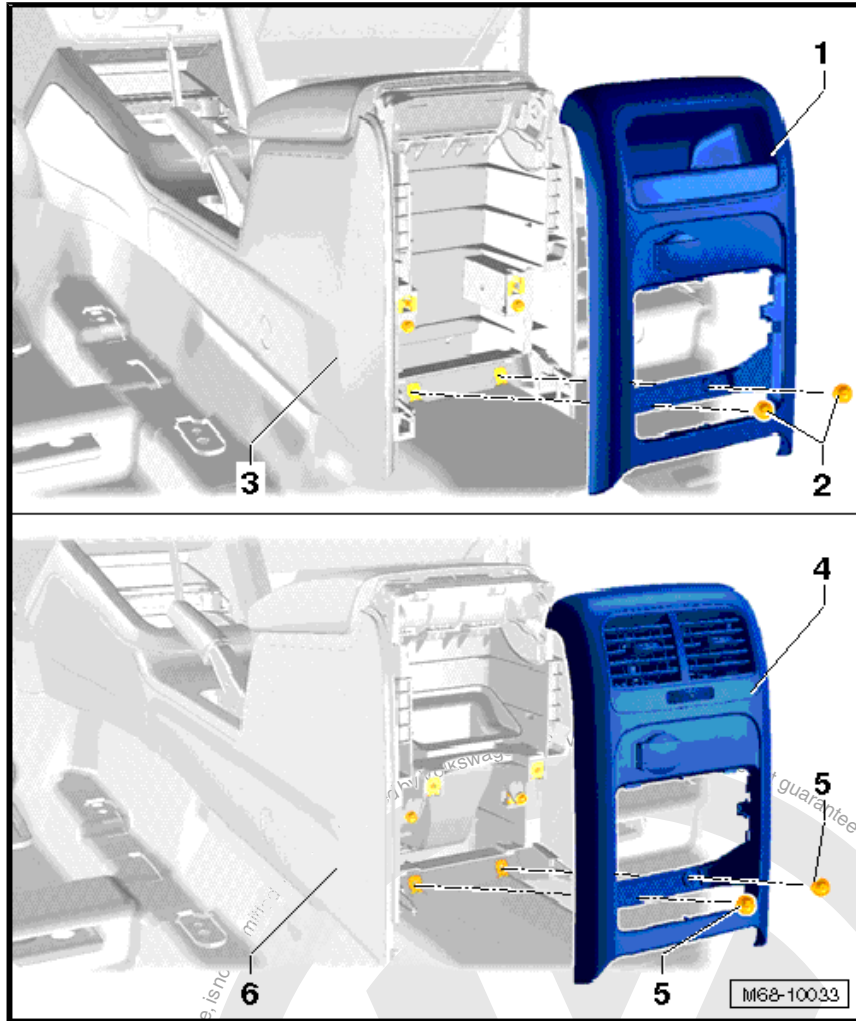
»Comfort« centre console

- Remove 2 bolts -2- from trim -1- (1.5 Nm).
- Remove trim -1- from centre console -3-, while disconnecting the wiring harness from the 12 V socket -U5- .

»Highline« centre console

- Remove 2 bolts -5- from trim -4- (1.5 Nm).
- Remove trim -4- from centre console -6-, while disconnecting the wiring harness from the 12 V socket -U5- .





Installing

- Install in reverse order of removal.



Note

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

3.4 Removing and installing rear trim bracket of »Comfort and Highline« centre console

Removing

- Removing rear trim of »Comfort and Highline« centre console
⇒ [page 34](#)
- Remove 2 bolts -2- from bracket -1- (1.5 Nm).



- Remove bracket -1- from centre console.

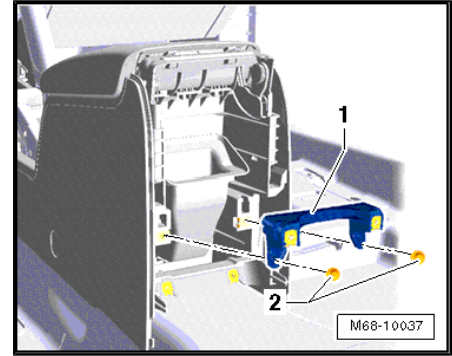
Installing

- Install in reverse order of removal.



Note

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



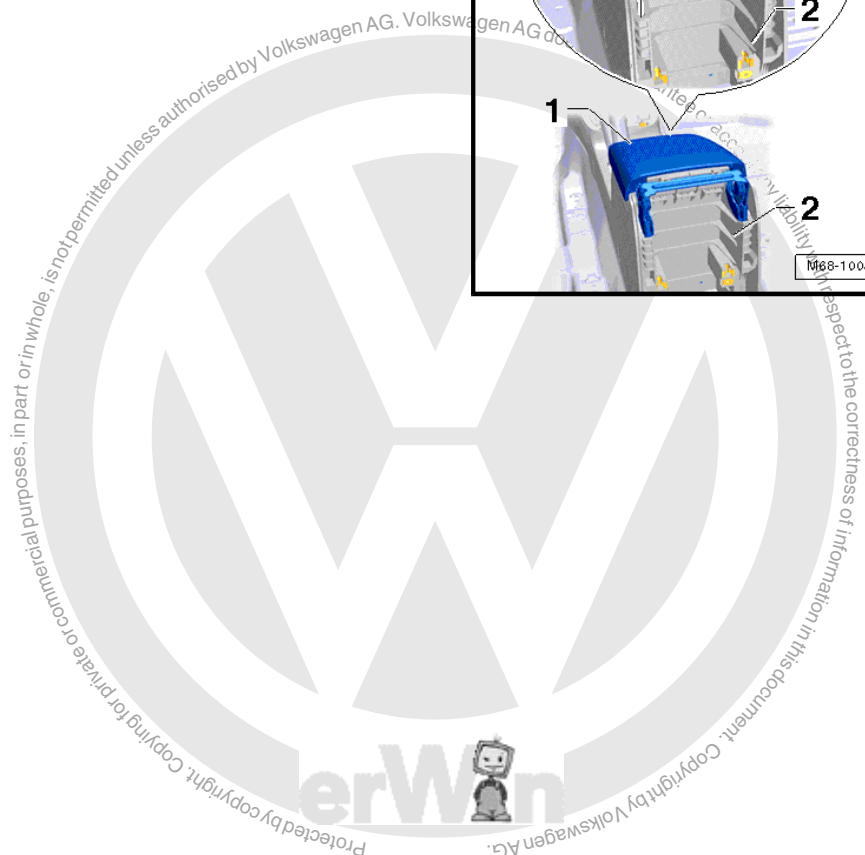
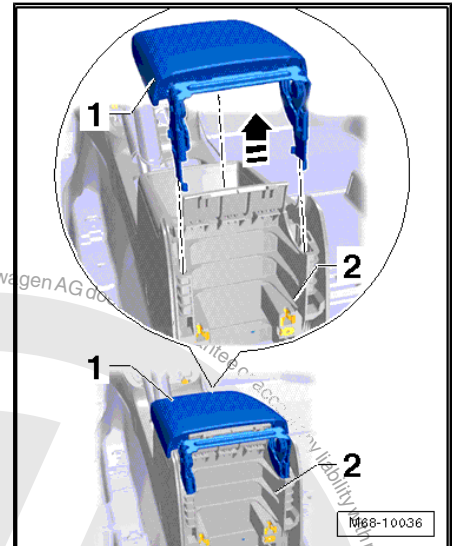
3.5 Removing and installing lid of rear storage compartment of »Comfort and Highline« centre console

Removing

- Removing rear trim of »Comfort and Highline« centre console
⇒ [page 34](#)
- Remove storage compartment lid -1- from guides of centre console -2- in direction of -arrow-.

Installing

- Install in reverse order of removal.





3.6 Removing and installing centre console securing bracket

⇒ [“3.6.1 Assembly overview - securing bracket”, page 38](#)

⇒ [“3.6.2 Removing and installing front securing bracket”, page 38](#)

⇒ [“3.6.3 Removing and installing middle securing bracket”, page 39](#)

⇒ [“3.6.4 Removing and installing support”, page 40](#)

⇒ [“3.6.5 Removing and installing rear fastenings”, page 40](#)

3.6.1 Assembly overview - securing bracket

1 - Front mounting bracket

- Removing centre console securing bracket
- Left and right.
- Removing and installing
⇒ [page 38](#)

2 - Middle mounting bracket

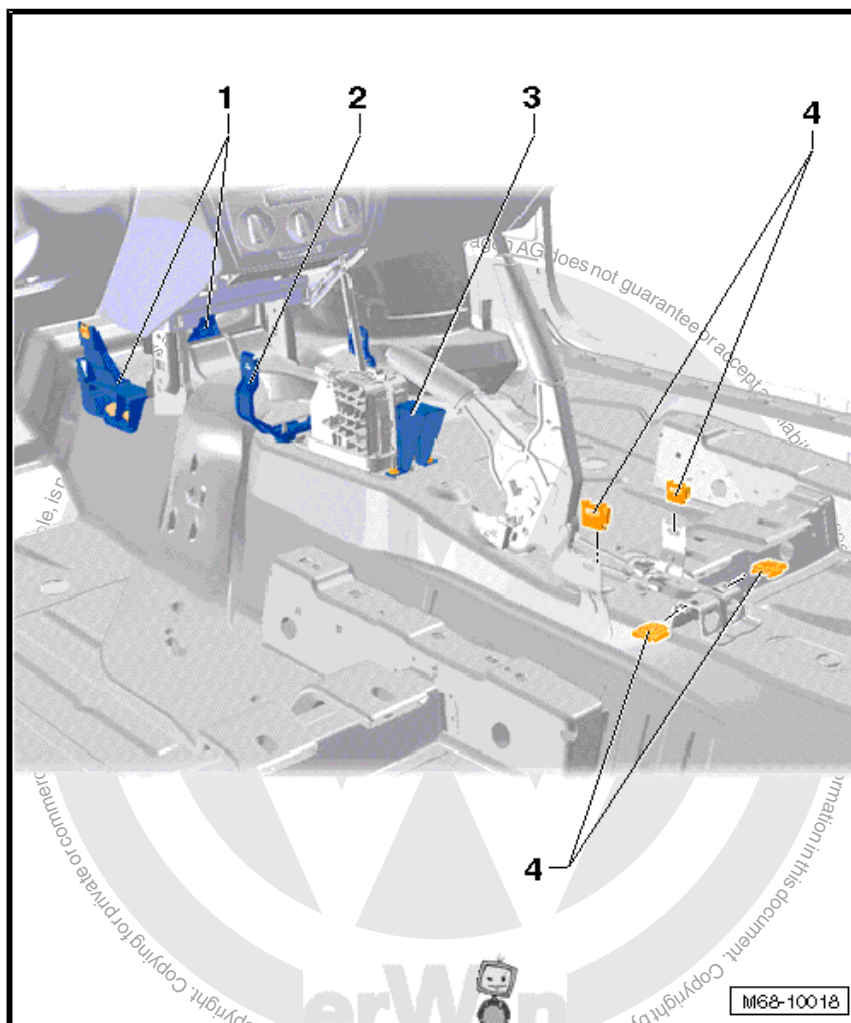
- Centre console securing bracket in front of selector mechanism
- Removing and installing
⇒ [page 39](#)

3 - Support

- Centre console support behind selector mechanism
- Removing and installing
⇒ [page 40](#)

4 - Rear fastenings

- Rear centre console fastening
- Removing and installing
⇒ [page 40](#)



3.6.2 Removing and installing front securing bracket

Removing

- Switch off ignition.
- Remove centre console:



- ◆ ⇒ [“3.1 Removing and installing Basic centre console”, page 26](#)
- ◆ ⇒ [“3.2 Removing and installing Comfort and Highline centre console”, page 30](#)
- Undo 2 nuts -2- (2.0 Nm) and remove securing bracket -1-.

Note

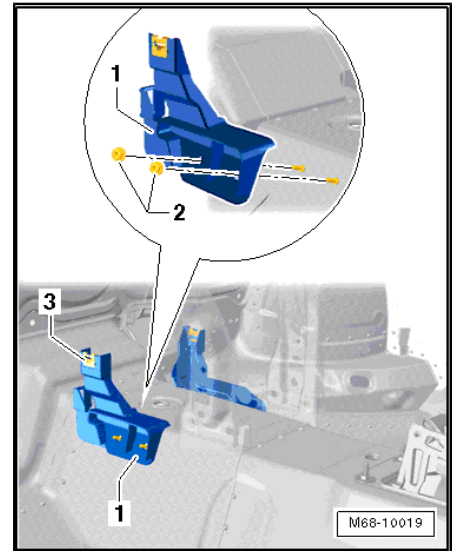
Removal of front right securing bracket is identical.

Installing

- Install in reverse order of removal.

Note

Before installing, check snap-on nut -3- for damage and renew if necessary.



3.6.3 Removing and installing middle securing bracket

Removing

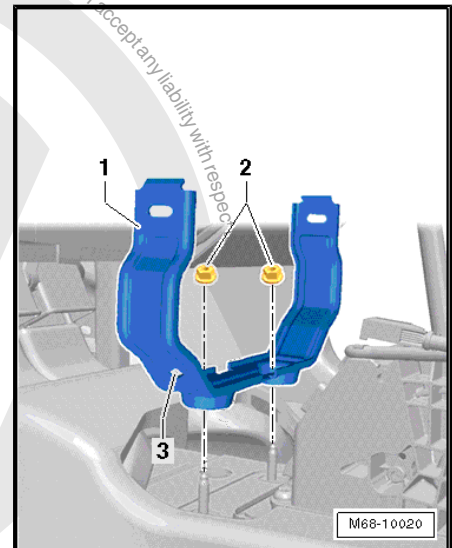
- Switch off ignition.
- Remove centre console:
 - ◆ ⇒ [“3.1 Removing and installing Basic centre console”, page 26](#)
 - ◆ ⇒ [“3.2 Removing and installing Comfort and Highline centre console”, page 30](#)
- Undo 2 nuts -2- (8.0 Nm) and remove securing bracket -1-.

Installing

- Install in reverse order of removal.

Note

The opening -3- of the securing bracket must be on the left-hand side of the vehicle.





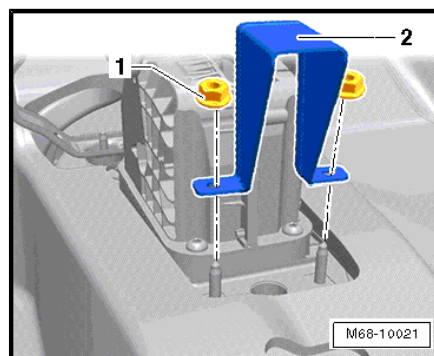
3.6.4 Removing and installing support

Removing

- Switch off ignition.
- Remove centre console:
 - ◆ ⇒ [“3.1 Removing and installing Basic centre console”, page 26](#)
 - ◆ ⇒ [“3.2 Removing and installing Comfort and Highline centre console”, page 30](#)
- Undo 2 nuts -2- (8.0 Nm) and remove support -1-.

Installing

- Install in reverse order of removal.



3.6.5 Removing and installing rear fastenings

Removing

- Switch off ignition.
- Remove centre console:
 - ◆ ⇒ [“3.1 Removing and installing Basic centre console”, page 26](#)
 - ◆ ⇒ [“3.2 Removing and installing Comfort and Highline centre console”, page 30](#)
- Remove snap-on nuts -1- and -2- from body.

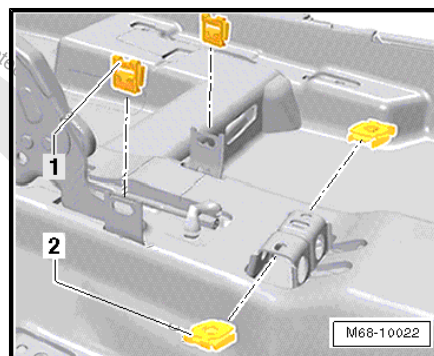
Installing

- Install in reverse order of removal.



Note

Before installing, check snap-on nuts -1- and -2- for damage and renew if necessary.





4 Interior mirror

⇒ ["4.1 Assembly overview - interior mirror", page 41](#)

⇒ ["4.2 Removing and installing interior mirror", page 44](#)

⇒ ["4.3 Repairing interior mirror retaining plate", page 50](#)

⇒ ["4.4 Automatic anti-dazzle interior mirror - Functional description", page 53](#)

4.1 Assembly overview - interior mirror

⇒ ["4.1.1 Assembly overview - interior mirror, Basic version", page 41](#)

⇒ ["4.1.2 Assembly overview - interior mirror, with rain sensor", page 42](#)

⇒ ["4.1.3 Assembly overview - interior mirror, with rain sensor and front camera", page 43](#)

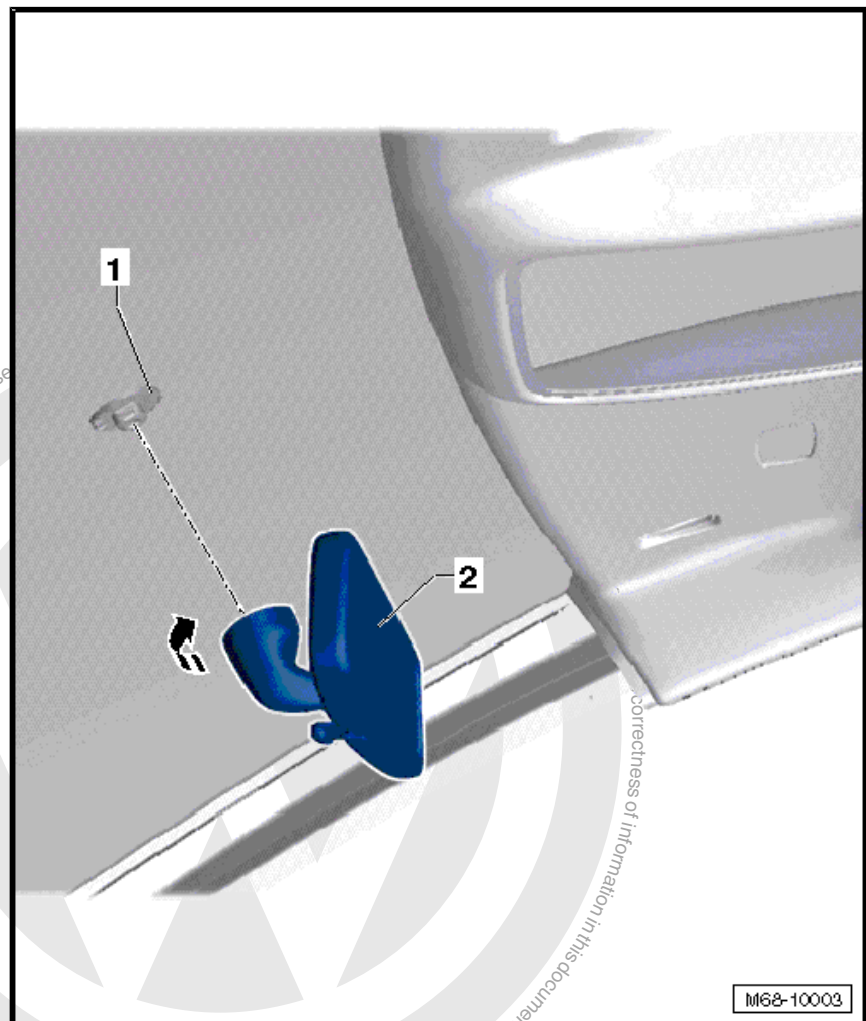
4.1.1 Assembly overview - interior mirror, »Basic« version

1 - Retaining plate

- Retaining plate for mirror base
- Glued to windscreen
- Repairing retaining plate for interior mirror
⇒ [page 50](#)

2 - Interior mirror

- Removing and installing
⇒ [page 44](#) .



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4.1.2 Assembly overview - interior mirror, »with rain sensor«

1 - Retaining plate

- ❑ Retaining plate for mirror foot
- ❑ Glued to windscreen
- ❑ Repairing interior mirror retaining plate
⇒ [page 52](#)

2 - Rain and light detection sensor -G397-

- ❑ Removing and installing sensor ⇒ Windscreen wiping and washing system; Rep. gr. 92 ; Removing and installing rain and light detection sensor -G397
- ❑ Coding the sensor ⇒ Windscreen wiping and washing system; Rep. gr. 92 ; Coding rain and light detection sensor - G397

3 - Upper cable guide

- ❑ Latched onto retaining plate
⇒ [Item 1 \(page 42\)](#)
- ❑ Inserted into trim piece
⇒ [Item 4 \(page 42\)](#)
- ❑ Removing and installing
⇒ [page 45](#) .

4 - Trim

- ❑ Trim piece for roof trim
- ❑ Removing and installing
⇒ [page 45](#) .

5 - Lower cable guide

- ❑ Latched onto retaining plate ⇒ [Item 1 \(page 42\)](#)
- ❑ Inserted into trim piece ⇒ [Item 4 \(page 42\)](#)
- ❑ Removing and installing ⇒ [page 45](#) .

6 - Interior mirror

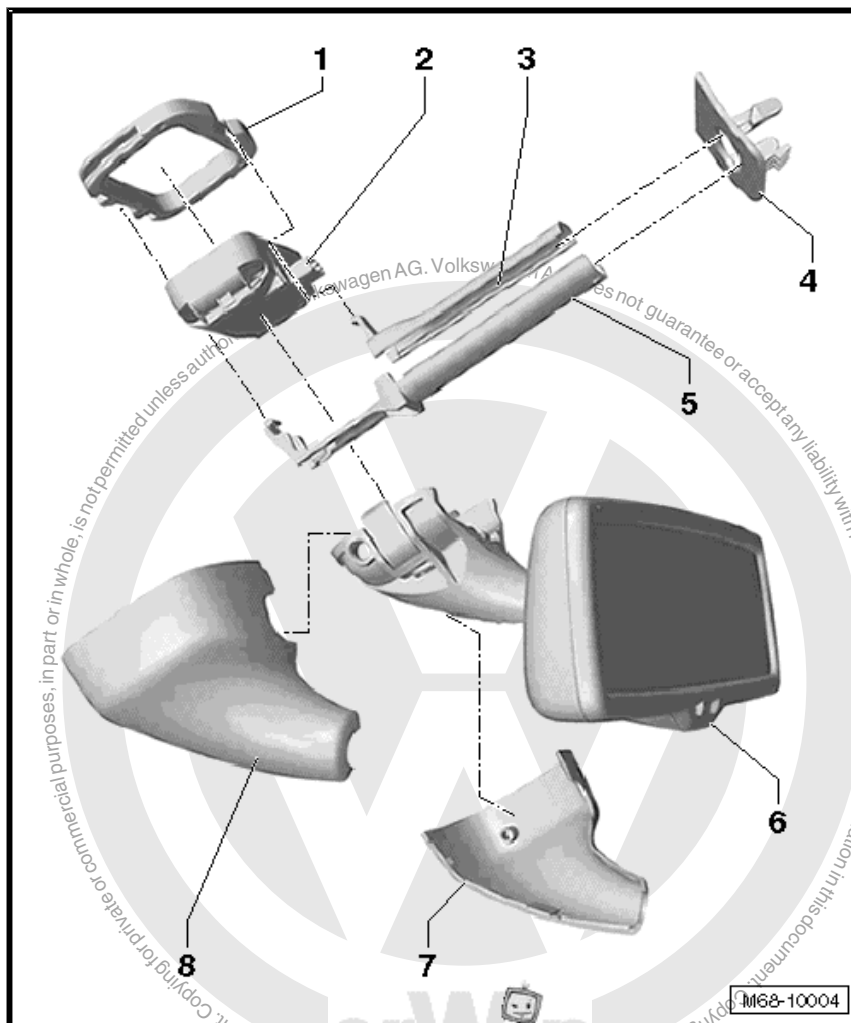
- ❑ Automatically dimmable ⇒ [page 53](#)
- ❑ Removing and installing ⇒ [page 45](#) .

7 - Right mirror base trim

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

8 - Left mirror base trim

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





4.1.3 Assembly overview - interior mirror, »with rain sensor and front camera«

1 - Retaining plate

- Retaining plate for mirror foot
- Glued to windscreen
- Repairing interior mirror retaining plate
⇒ [page 52](#)

2 - Rain and light detection sensor -G397-

- Removing and installing sensor ⇒ Windscreen wiping and washing system; Rep. gr. 92 ; Removing and installing rain and light detection sensor -G397
- Coding the sensor ⇒ Windscreen wiping and washing system; Rep. gr. 92 ; Coding rain and light detection sensor -G397

3 - Upper cable guide

- Latched onto retaining plate
⇒ [Item 1 \(page 43\)](#)
- Inserted into trim piece
⇒ [Item 4 \(page 43\)](#)
- Removing and installing
⇒ [page 47](#) .

4 - Trim

- Trim piece for roof trim
- Removing and installing
⇒ [page 47](#) .

5 - Lower cable guide

- Latched onto retaining plate ⇒ [Item 1 \(page 43\)](#)
- Inserted into trim piece ⇒ [Item 4 \(page 43\)](#)
- Removing and installing ⇒ [page 47](#) .

6 - Interior mirror

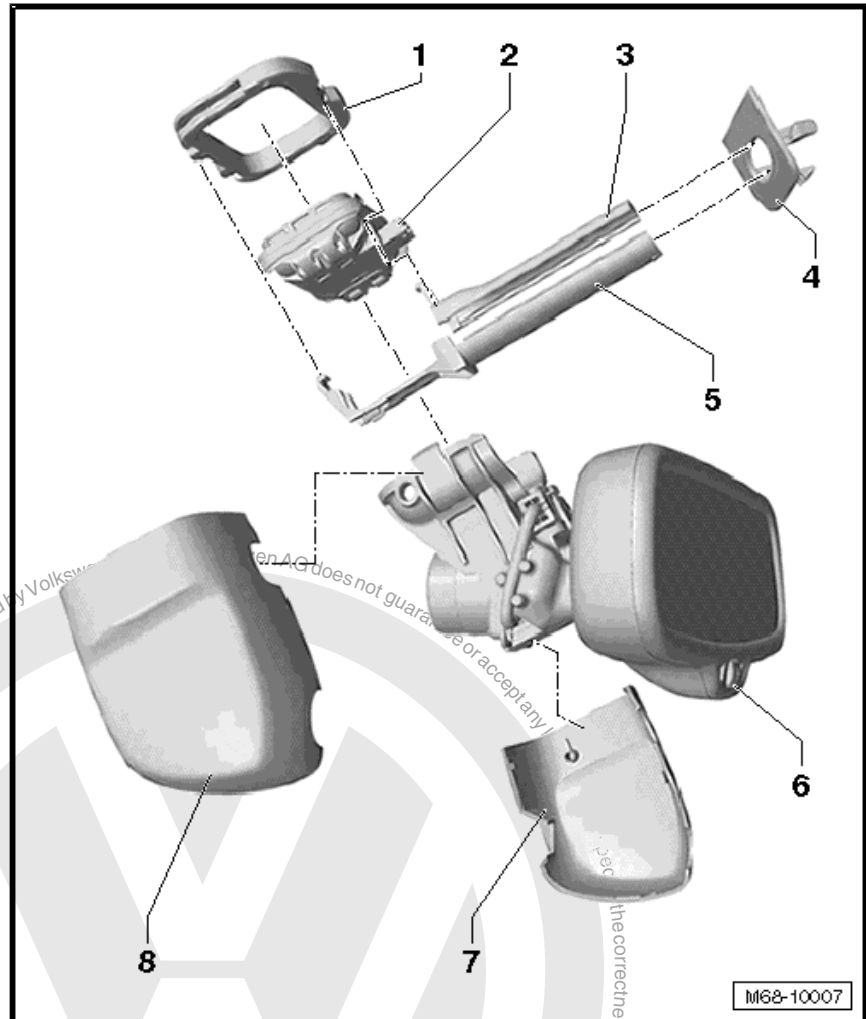
- Automatically dimmable ⇒ [page 53](#)
- With front camera for driver assist systems -R242-
- Removing and installing ⇒ [page 47](#) .

7 - Right mirror base trim

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

8 - Left mirror base trim

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





4.2 Removing and installing interior mirror

⇒ ["4.2.1 Removing and installing Basic interior mirror", page 44](#)

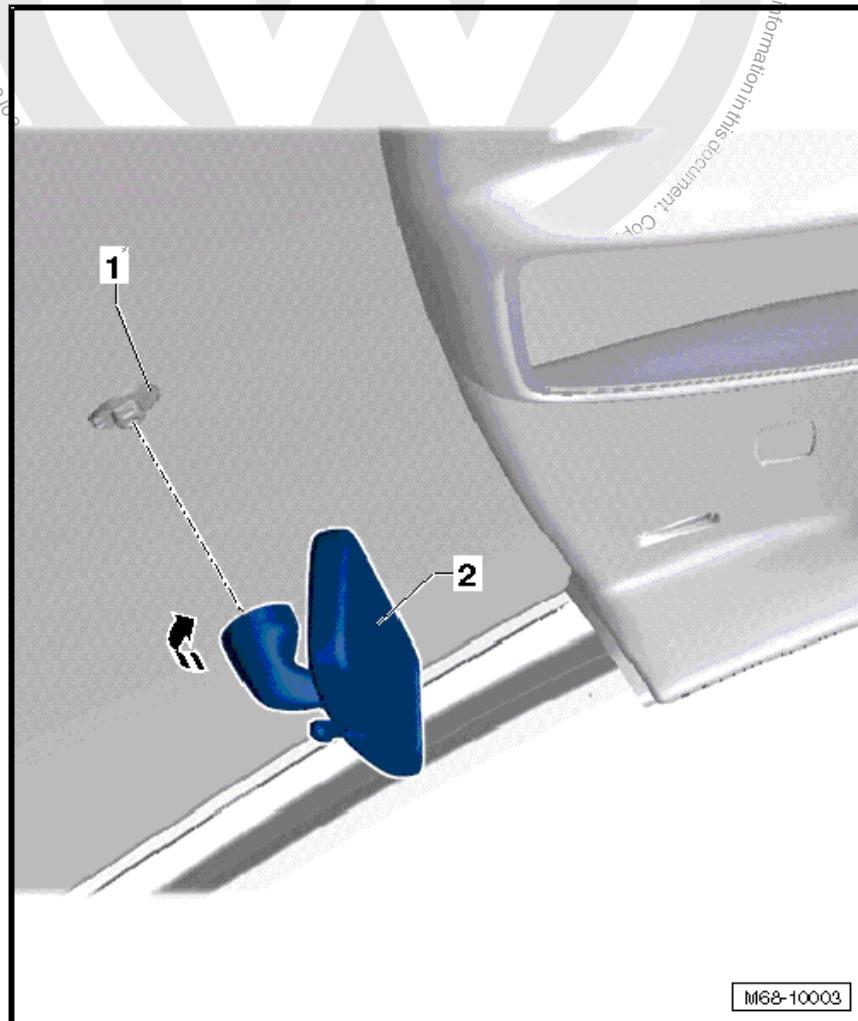
⇒ ["4.2.2 Removing and installing interior mirror, with rain sensor", page 45](#)

⇒ ["4.2.3 Removing and installing interior mirror, with rain sensor and front camera", page 47](#)

4.2.1 Removing and installing »Basic« interior mirror

Removing

- Turn interior mirror -2- by 90° in anticlockwise direction -arrow-.
- Remove interior mirror -2- from glued-on retaining plate -1-.



Installing

- Install in reverse order of removal.

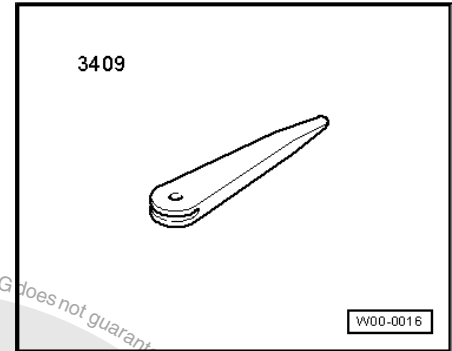


4.2.2 Removing and installing interior mirror, »with rain sensor«

Removing

Special tools and workshop equipment required

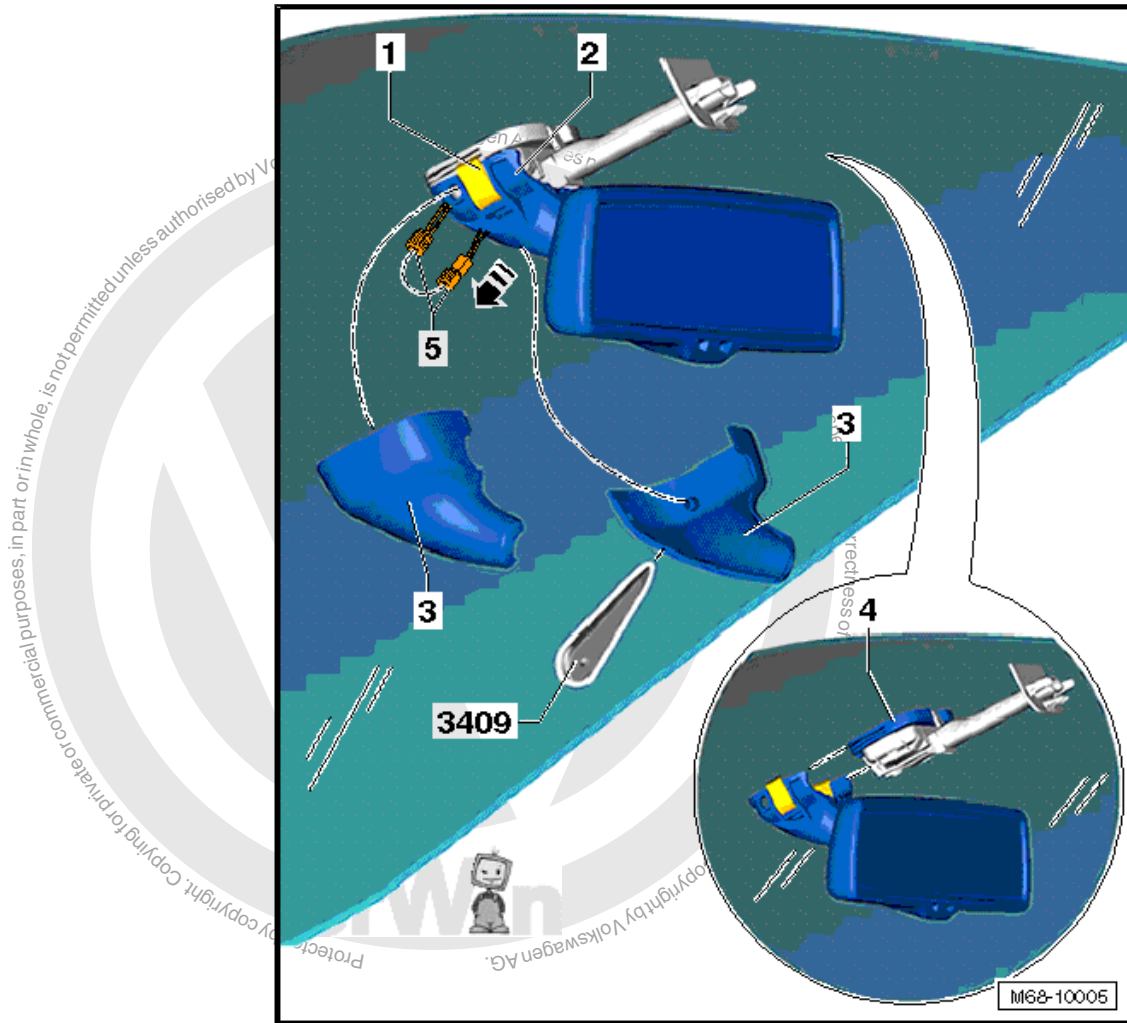
- ◆ Removal wedge -3409-



WARNING

- ◆ **Observe safety instructions for automatically dimmable interior mirror ⇒ [page 13](#).**

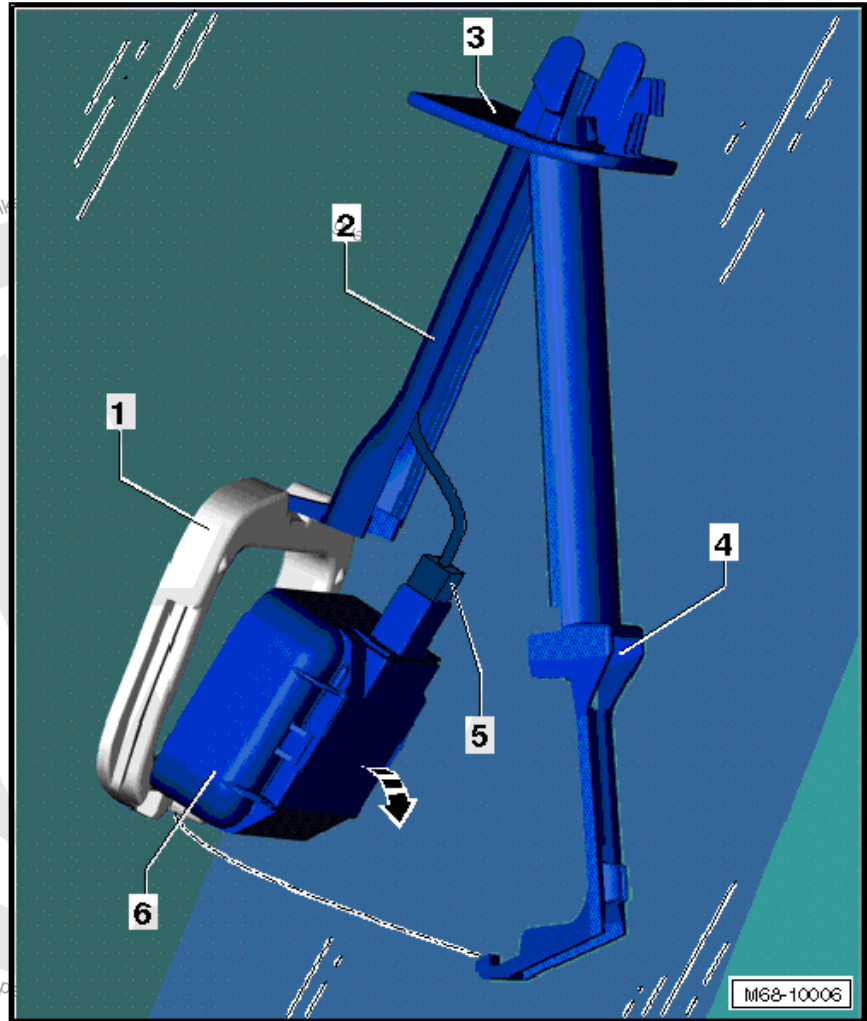
- Switch off ignition.
- Using removal wedge -3409-, release fasteners of cover caps -3-.
- Remove cover caps -3- from mirror foot -2-.
- Detach connector for automatic dimming function -5-.
- Using a small screwdriver, slightly loosen the retaining clips on both sides -1-.
- Push mirror foot together with interior mirror -2- downwards off the retaining plate -4-.



- Detach lower cable guide -4- from catch with retaining plate -1-.
- Pull lower cable guide -4- out of trim piece for roof trim -3-.
- Detach connector -5- for rain sensor -6-.
- Remove rain sensor -6- from retaining plate -1- in -direction of arrow-.
- Detach upper cable guide -2- from catch with retaining plate -1-.
- Pull upper cable guide -2- out of trim piece for roof trim -3-.
- Remove trim piece for roof trim -3- downwards out of roof trim. In doing so, push connector together with wiring harness -5- through trim piece.



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Installing

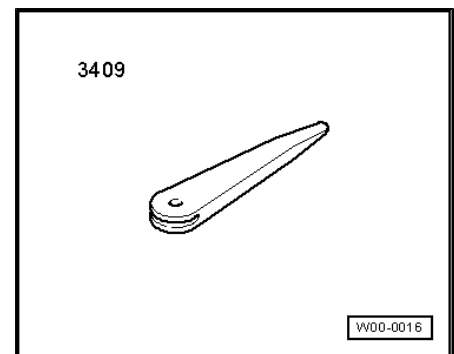
- Install in reverse order of removal.

4.2.3 Removing and installing interior mirror, »with rain sensor and front camera«

Removing

Special tools and workshop equipment required

- ◆ Removal wedge -3409-

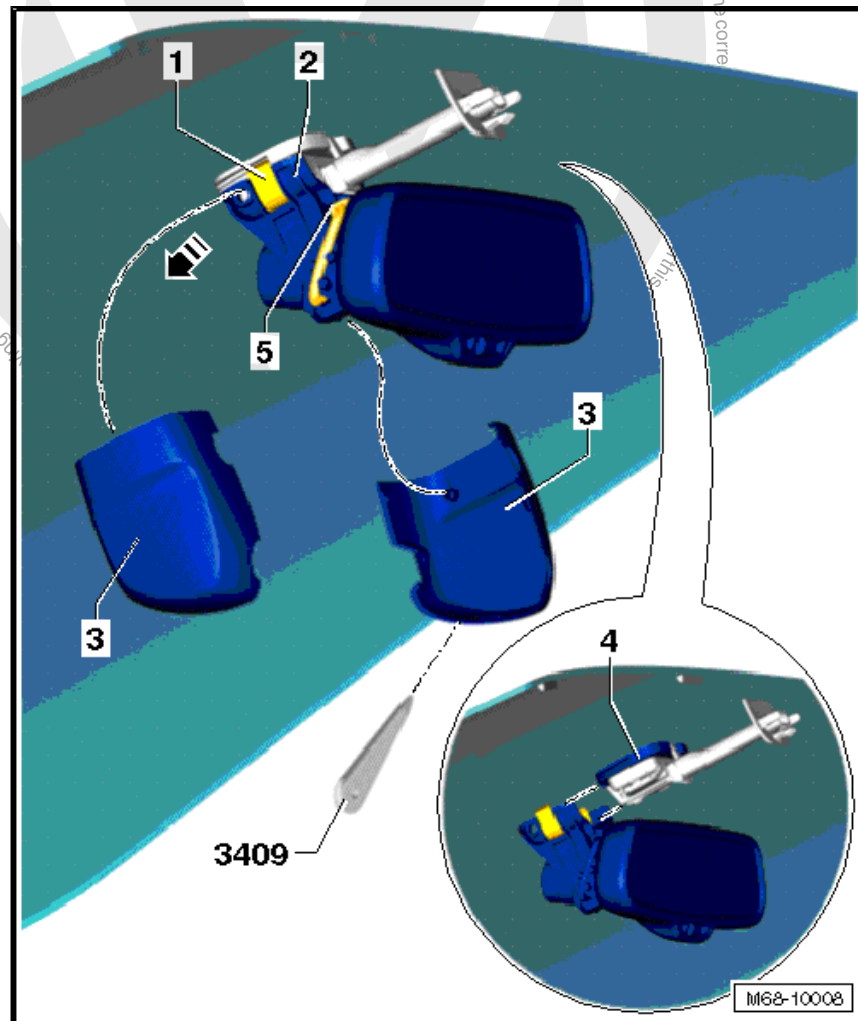




WARNING

- ◆ **Observe safety instructions for automatically dimmable interior mirror** → [page 13](#).

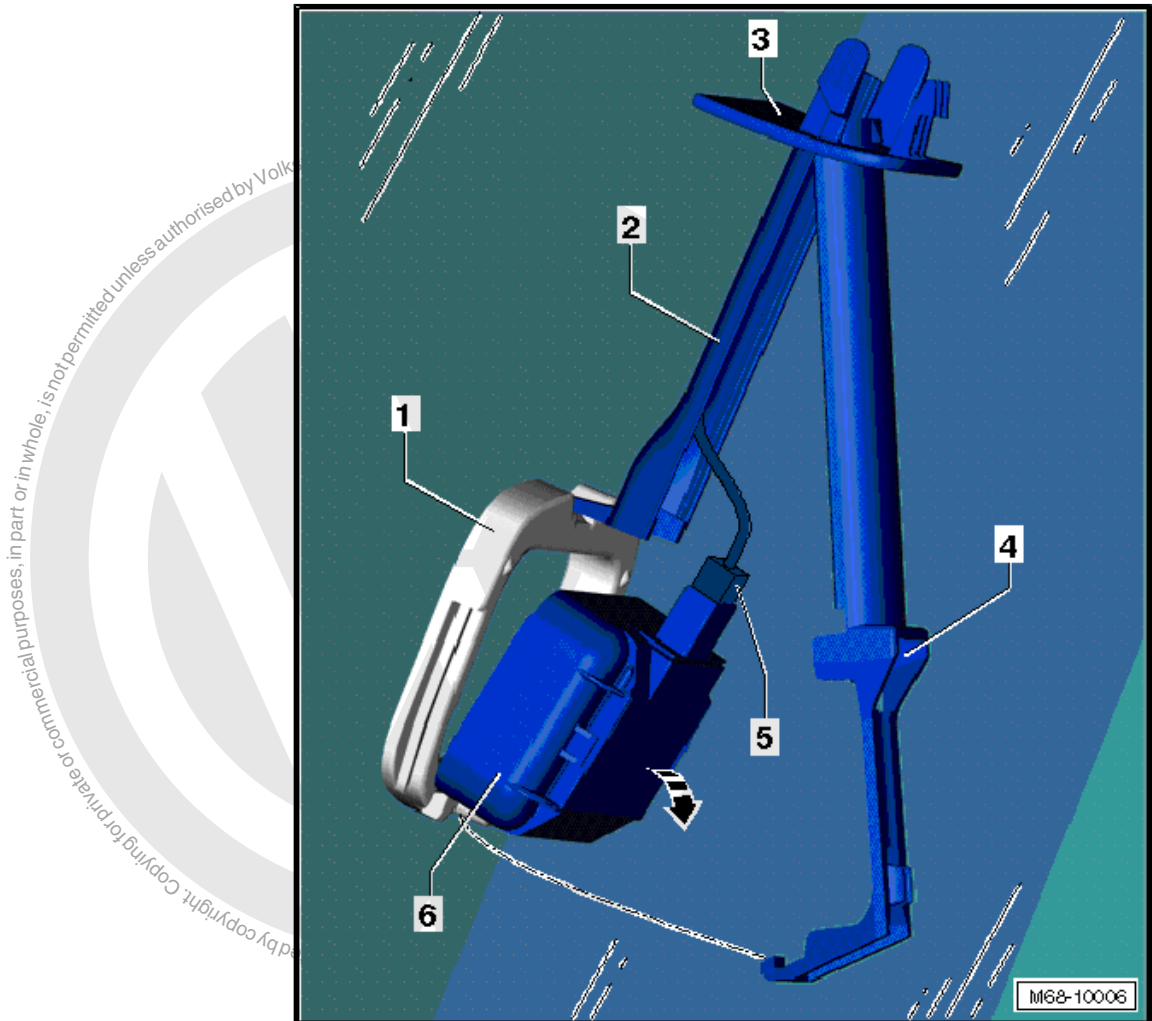
- Switch off ignition.
- Using removal wedge -3409-, release fasteners of cover caps -3-.
- Remove cover caps -3- from mirror foot -2-.
- Detach connector for automatic dimming function -5-.
- Using a small screwdriver, slightly loosen the retaining clips on both sides -1-.
- Push mirror foot together with interior mirror -2- downwards off the retaining plate -4-.



- Detach lower cable guide -4- from catch with retaining plate -1-.
- Pull lower cable guide -4- out of trim piece for roof trim -3-.



- Detach connector -5- for rain sensor -6-.
- Remove rain sensor -6- from retaining plate -1- in -direction of arrow-.
- Detach upper cable guide -2- from catch with retaining plate -1-.
- Pull upper cable guide -2- out of trim piece for roof trim -3-.
- Remove trim piece for roof trim -3- downwards out of roof trim. In doing so, push connector together with wiring harness -5- through trim piece.



Installing

- Install in reverse order of removal.



4.3 Repairing interior mirror retaining plate

⇒ [“4.3.1 Repairing interior mirror retaining plate, Basic version”, page 50](#)

⇒ [“4.3.2 Repairing interior mirror retaining plate, with rain sensor”, page 52](#)

⇒ [“4.3.3 Repairing interior mirror retaining plate, with rain sensor and front camera”, page 53](#)

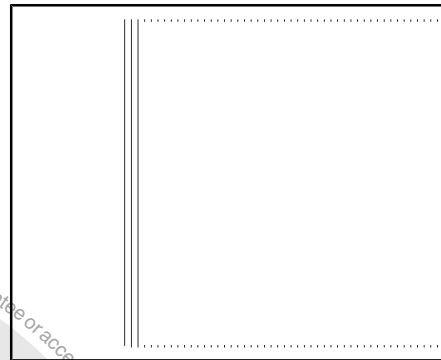
4.3.1 Repairing interior mirror retaining plate, »Basic« version

Materials

- ◆ Glass-metal adhesive kit “D 000 703 A1”

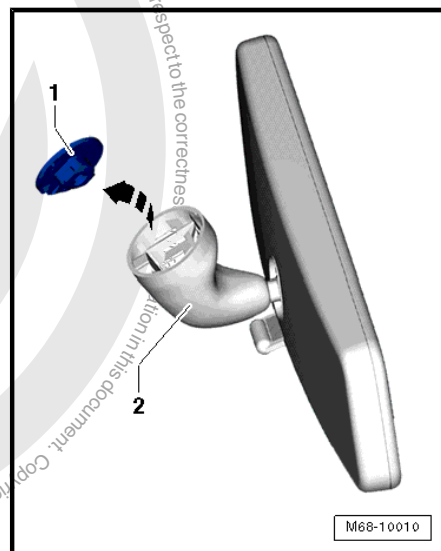
Special tools and workshop equipment required

- ◆ Glass scraper (commercially available) -1-
- ◆ Blade (commercially available) -2-



Installation

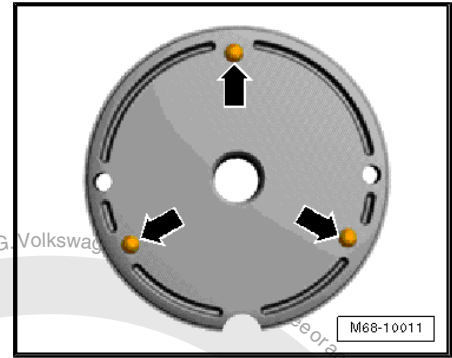
- Detach retaining plate -1- from mirror foot -2- in -direction of arrow-.
- Remove PUR adhesive sealant from retaining plate -1- using a wire brush.





- Grind off the three spacer protrusions -arrows- on bonding surface. To do this, use sandpaper (360/400 grain) laid on flat surface.
- Keep sanded surface clean and free of grease.
- Remove PUR adhesive sealant as well as old glass/paint primer down to ceramic layer on windscreen using a glass scraper.

⚠ Caution
Do not damage ceramic coating. Scratches will remain permanently visible.



- Clean adhesive contact area with adhesive remover -D 002 000 10- or cleaning solution -D 009 401 04- .
- Cut a piece of mesh nylon fabric -3- from glass-metal adhesive set -D 000 703 A1- exactly to the size of the retaining plate -2-.

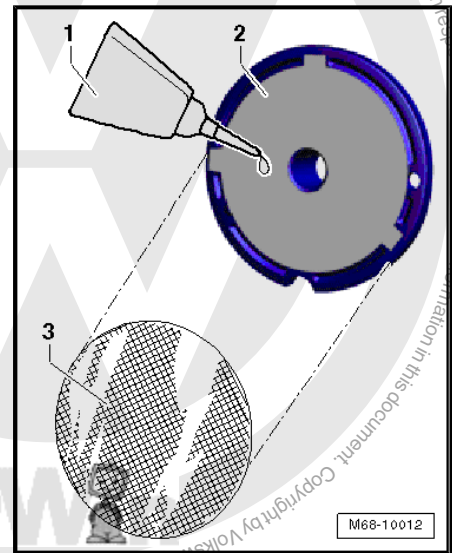
i Note

Wear hand protection (rubber gloves).

- Apply a good layer of adhesive -1- from glass-metal adhesive set -D 000 703 A1- uniformly to the retaining plate -2-.
- Place nylon mesh fabric -3- on retaining plate -2-.
- Dab nylon mesh fabric -3- with tube of adhesive -1- while applying further adhesive.

i Note

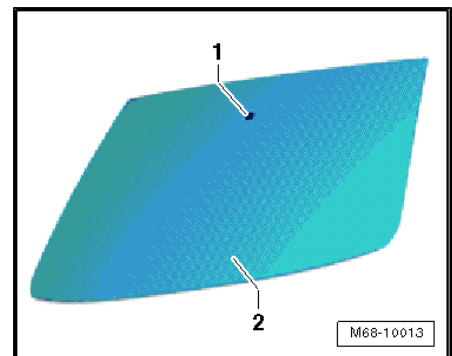
- ◆ *It is essential to bear in mind the drying time of the adhesive.*
- ◆ *Only 30 seconds are available from laying nylon mesh fabric on adhesive to pressing plate onto windscreen.*



- Press retaining plate -1- (do not use force) against windscreen -2- for 15 seconds.

i Note

Interior mirror can be installed after 15 minutes.





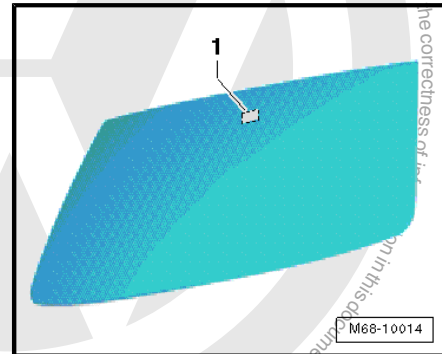
4.3.2 Repairing interior mirror retaining plate, »with rain sensor«

Note

- ◆ *With the repair procedure described, it is no longer necessary to renew the windscreen.*
- ◆ *At the same time, it is also possible to reuse the old mirror base which has fallen off.*

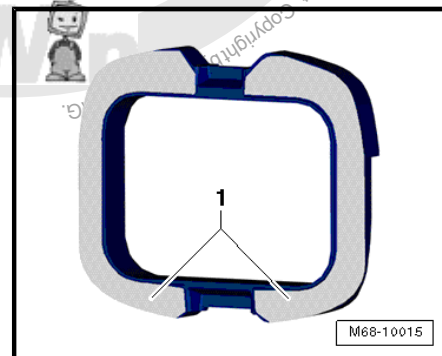
Preparing windscreen

- All adhesive and primer residue must be removed from the ceramic pre-coating -1-.
- Clean bonding area with cleaning solution -D 009 401 04- .
- Adhere to "flash-off period" of at least 10 minutes.
- Apply glass/paint primer -D 009 200 02- to ceramic pre-coating -1-.
- Flash-off period up to bonding: minimum of 10 minutes to maximum of 1 hour.



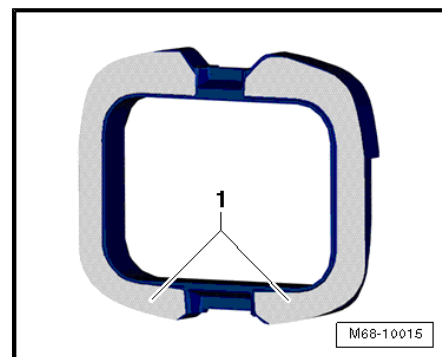
Preparation of retaining plate which has fallen off

- Mechanically remove adhesive residue.
- ◆ Prepare adhesive surface -1- with "wet-on-wet" method by sanding down with wet fine emery paper (800 to 1200 grade) until surface to be bonded is completely moist.
- ◆ Then clean with cleaning solution -D 009 401 04- .
- ◆ Adhere to "flash-off period" of at least 10 minutes.



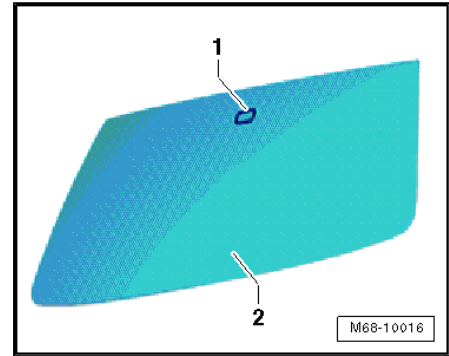
Gluing retaining plate on

- Apply the 2-component polyurethane adhesive -D 180 KD2 A1- directly onto the sanded and cleaned bonding surface -1- of the retaining plate.
- Adhesive bead diameter: approx. 2.5...3.0 mm.



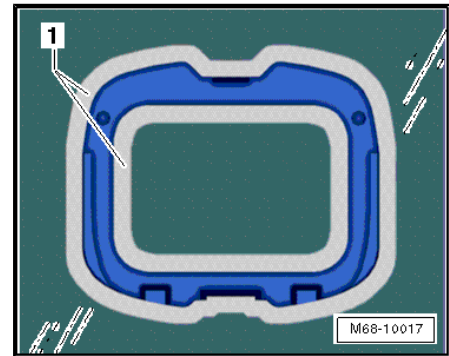


- Press retaining plate -1- into position on prepared windscreen -2- immediately after applying adhesive.
- Fix retaining plate -1- in its intended position on ceramic pre-coat surface and secure with adhesive tape.



Cleaning and removing excessive adhesive

- Carefully remove adhesive tape 0.5...1 hour after gluing on the retaining plate.
- Remove excessive and still soft adhesive -1- using a spatula.
- Then remove remaining excessive adhesive completely using a cloth or primer applicator soaked in cleaning solution -D 009 401 04- .



Note

The interior mirror can be fitted 2.5 hours after retaining plate has been glued on.

4.3.3 Repairing interior mirror retaining plate, »with rain sensor and front camera«



Note

- ◆ With the repair procedure described, it is no longer necessary to renew the windscreen.
- ◆ At the same time, it is also possible to reuse the old mirror base which has fallen off.
- ◆ Repair is described is
 => ["4.3.2 Repairing interior mirror retaining plate, with rain sensor", page 52](#)

4.4 Automatic anti-dazzle interior mirror - Functional description

The automatic anti-dazzle interior mirror darkens continuously when the driver is dazzled from behind.

It consists of a mirror element and electronics with two photosensors.

The photosensors of the electronics detect the light incidence from the front and the rear.

If the light incidence is greater from the rear than from the front, the electronics apply voltage to the conductive coating.

The applied voltage changes the colour of the electrolyte. The greater the voltage, the darker the electrolyte. Therefore, the incident light is reflected to a lesser degree.



Selecting reverse gear switches off the anti-dazzle function. Consequently, one can, for example, reverse out of a dark garage with the aid of the interior mirror.





69 – Passenger protection





1 Seat belts

⇒ [“1.1 Assembly overview - front three-point seat belt”, page 56](#)

⇒ [“1.2 Assembly overview - rear three-point seat belt”, page 57](#)

⇒ [“1.3 Removing and installing front 3-point seat belt”, page 57](#)

⇒ [“1.4 Removing and installing rear outer three-point seat belt”, page 62](#)

⇒ [“1.5 Removing and installing rear middle three-point seat belt”, page 65](#)

⇒ [“1.6 Removing and installing front belt height adjuster”, page 67](#)

⇒ [“1.7 Removing and installing front belt buckle with belt switch E24 / E25”, page 71](#)

⇒ [“1.8 Removing and installing rear double belt buckle”, page 74](#)

1.1 Assembly overview - front three-point seat belt

1 - Bolt

- 40 Nm

2 - Belt height adjustment

3 - Belt guide fitting

4 - Belt guide

- Engaged in B-pillar

5 - Belt inertia reel

- Installed in B-pillar
- Removing and installing ⇒ [page 57](#)

6 - Belt end fitting

- When installing, note lug/position

7 - Bolt

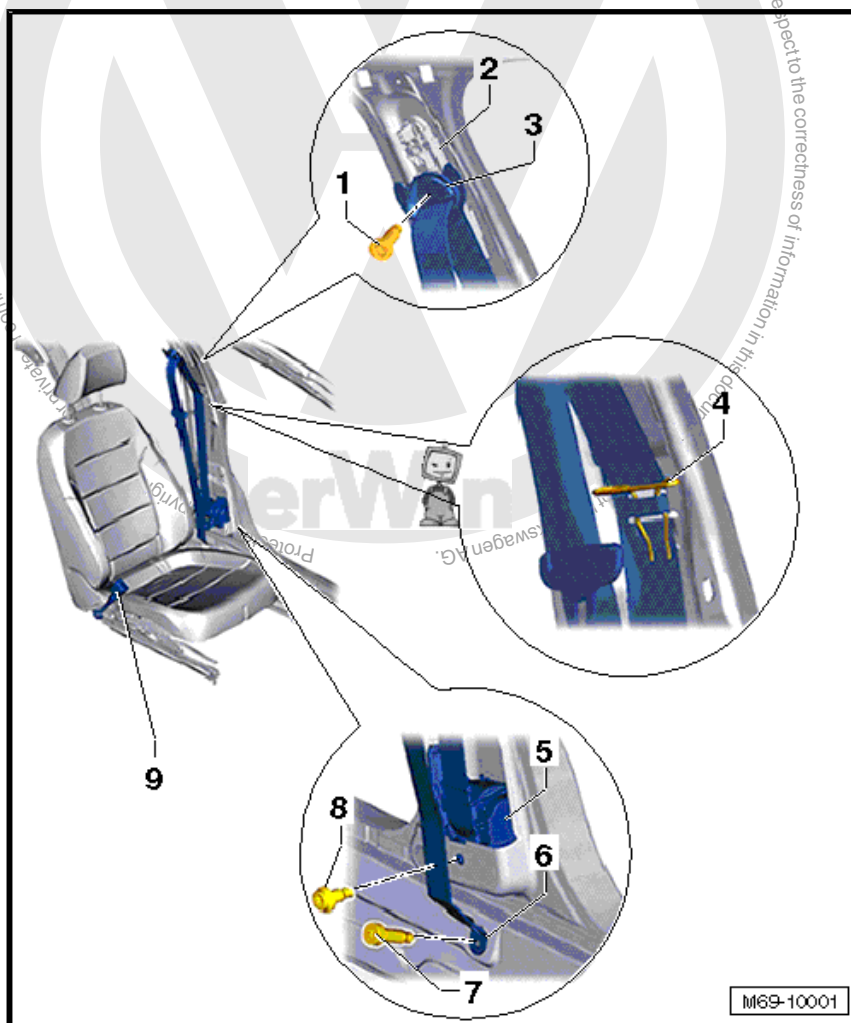
- 40 Nm
- Microencapsulated, renew each time loosened

8 - Bolt

- 40 Nm

9 - Belt buckle

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





1.2 Assembly overview - rear three-point seat belt

1 - Left outside seat belt

- ❑ Three-point seat belt with belt inertia reel and belt tensioner
- ❑ The belt is locked in the double belt buckle
⇒ [Item 2 \(page 57\)](#)
- ❑ Removing and installing
⇒ [page 62](#)

2 - Double belt buckle

- ❑ Lock for outer left seat belt and middle seat belt.
- ❑ Removing and installing
⇒ [page 74](#)

3 - Single belt buckle

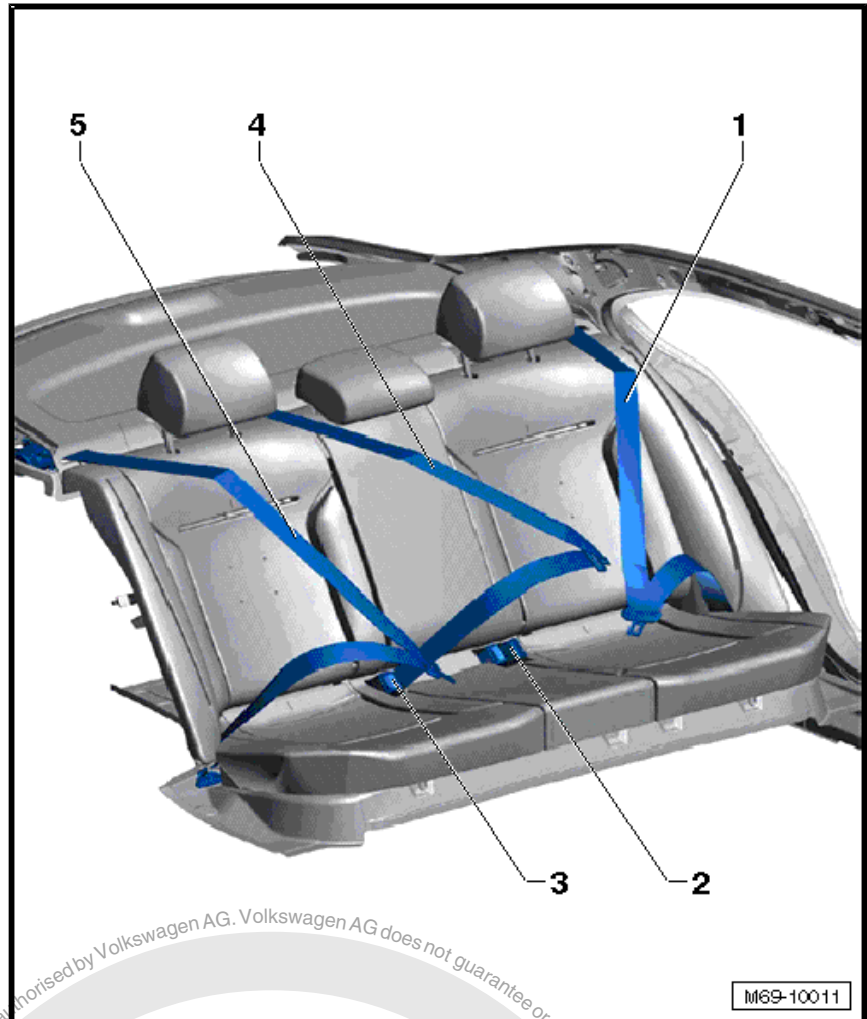
- ❑ Lock for outer right seat belt
- ❑ Part of the middle seat belt
- ❑ Removing and installing
⇒ [page 65](#)

4 - Middle seat belt

- ❑ Three-point seat belt with belt inertia reel without belt tensioner
- ❑ Removing and installing
⇒ [page 65](#)

5 - Outer right seat belt

- ❑ Three-point seat belt with belt inertia reel and belt tensioner
- ❑ The belt is locked in the single belt buckle
⇒ [Item 3 \(page 57\)](#)
- ❑ Removing and installing ⇒ [page 62](#)



1.3 Removing and installing front 3-point seat belt



Note

Removal and installation are described for the left vehicle side.
Follow same instructions for the right side as appropriate.



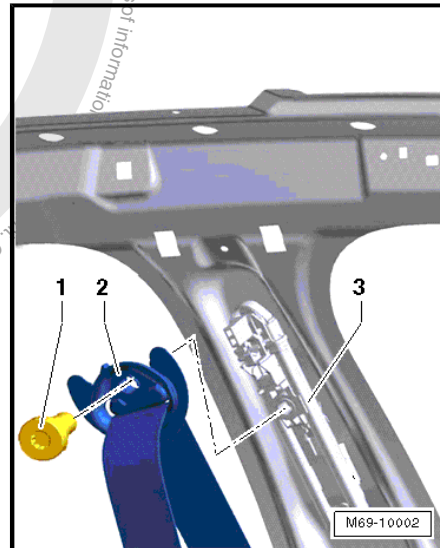
Removing



WARNING

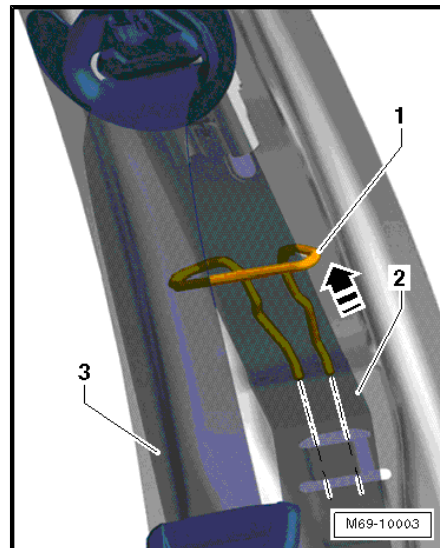
- ◆ Follow safety regulations for pyrotechnic components
⇒ [page 1](#) .
- ◆ Follow disposal regulations for pyrotechnic components
⇒ [page 4](#) .

- Remove upper B-pillar trim ⇒ [page 197](#) .
- Remove lower B-pillar trim ⇒ [page 202](#) .
- Remove bolt -1- (40 Nm) and detach belt guide anchor -2- from belt height adjuster -3-.
- Remove belt guide -1- from B-pillar -2- in -direction of arrow-.



- Remove seat belt -3- from belt guide -1-.

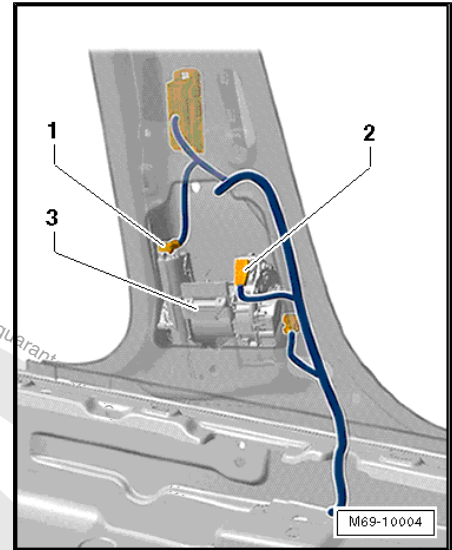
Only for USA vehicles:



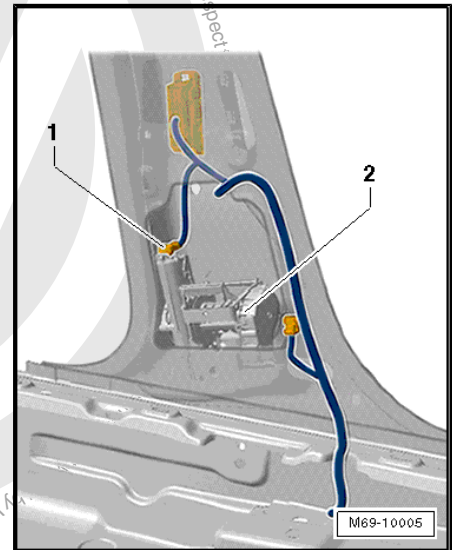


- Disconnect electrical connectors -1- and-2- from belt inertia reel -3-.

For all vehicles:



- Disconnect electrical connector -1- from belt inertia reel -2-.



- Undo bolt -2- (40 Nm) and remove belt anchor -5- from body.



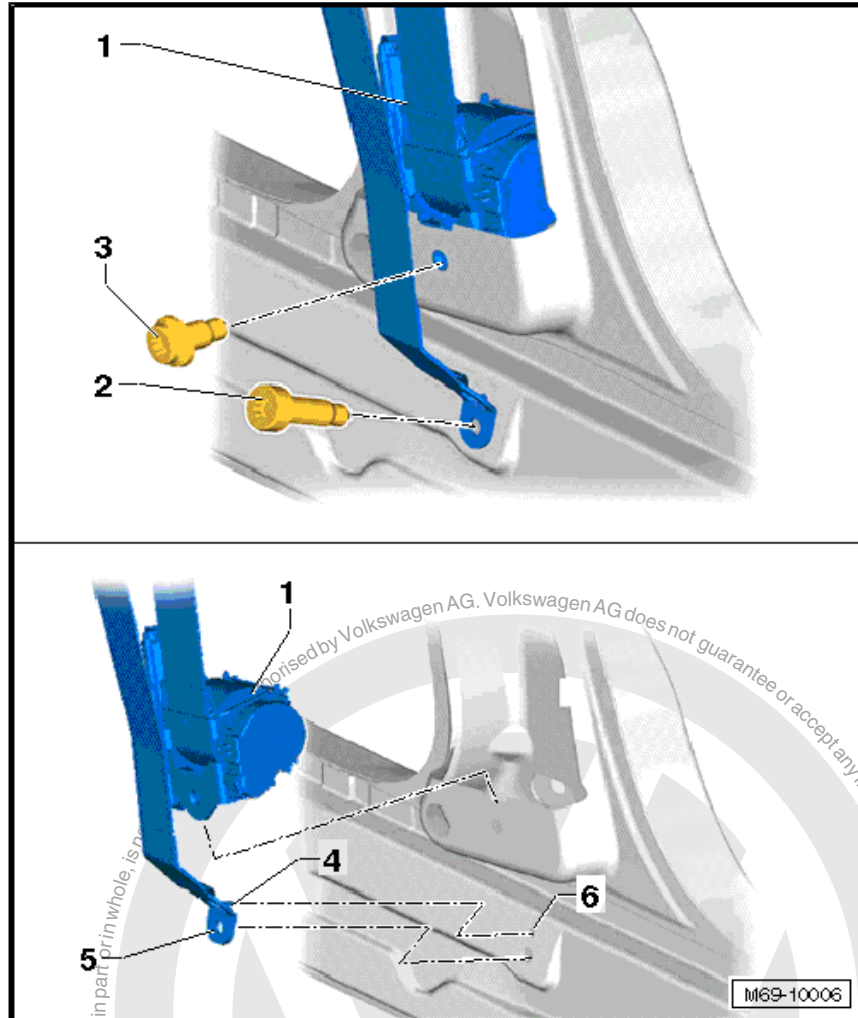
Caution

Bolt -2- may be microencapsulated. For this reason, the bolt has to be heated with a hot air blower before it can be loosened. The neighbouring seat belt must be protected against the heat with a damp cloth when doing this.



Note

- ◆ *If the bolt is microencapsulated, it must be renewed every time it is removed.*
 - ◆ *Before a new bolt is installed, the thread of the nut must be cleaned and chased as necessary.*
- Undo bolt -3- (40 Nm) and remove belt inertia reel -1- from B-pillar.



WARNING

Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.

Installing



WARNING

- ◆ *Follow safety regulations for pyrotechnic components
⇒ [page 1](#) .*
- ◆ *Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.*

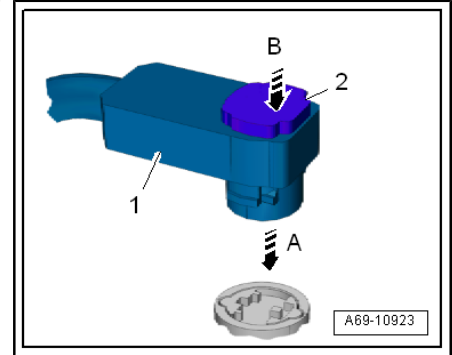
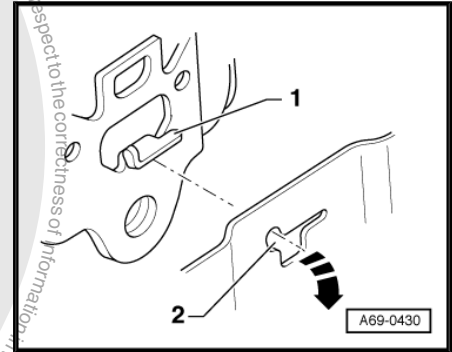


Note

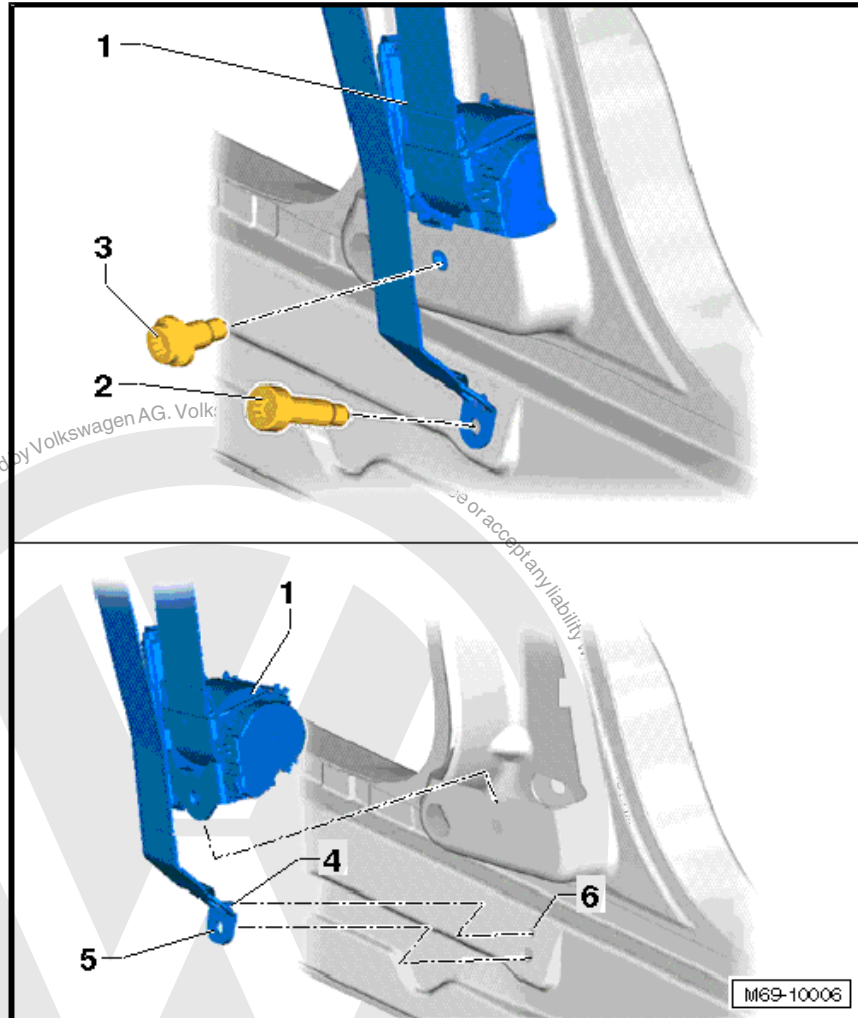
- ◆ *Ensure electrical connector is pushed fully onto stop and engages audibly.*
- ◆ *If parts of the belt system are removed because of an accident, the belt system bolts must be renewed.*

Fit belt inertia reel ensuring that anti-rotation tab -1- engages in mounting -2- -arrow- and tighten bolt (40 Nm).

- Connect connector -1- to igniter -arrow A-.
- Press in connector lock -2- -arrow B-. Doing so, the connector will be fully inserted into igniter and locked at the same time.



- Ensure that guide -4- of belt anchor -5- is seated in the mounting on body -6-. Then, tighten bolt -2- (40 Nm).



- Further installation is performed in the reverse order of removal.



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .

1.4 Removing and installing rear outer three-point seat belt



Note

Removal and installation are described for the left vehicle side. Follow same instructions for the right side as appropriate.



Removing



WARNING

- ◆ Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .
- ◆ Follow disposal regulations for pyrotechnic components ⇒ [page 4](#) .

- Remove bench seat ⇒ [page 270](#) .

Vehicles with rear side airbag

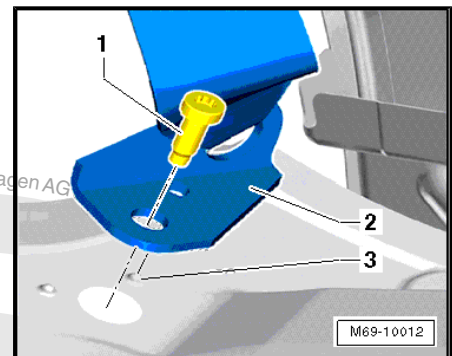
- Remove side padding ⇒ [page 275](#) .

Vehicles without rear side airbag

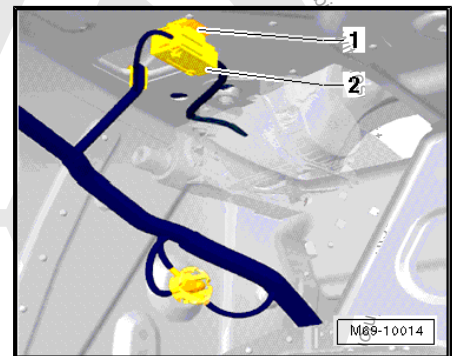
- Remove wheel housing trim ⇒ [page 209](#) .

All vehicles

- Remove rear shelf ⇒ [page 211](#) .
- Remove bolt -1- (40 Nm).
- Remove belt end anchor -2- from fastening buckle -3-.
- Working from the luggage compartment, remove bracket -1- for electrical connector -2- from upper section of rear wall.



- Separate electrical connector -2-.



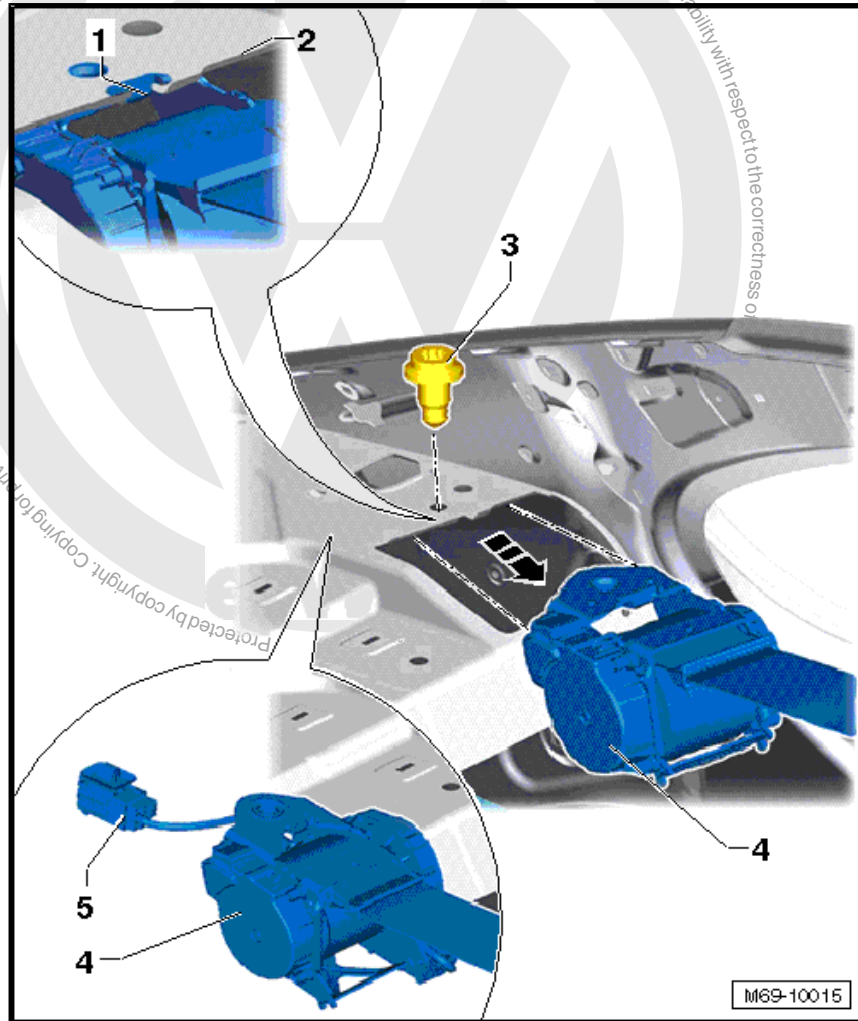
WARNING

Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.

- Remove bolt -3- (40 Nm).
- Remove catch -1- from upper part of rear wall -2-.



- Take belt inertia reel -4- together with electrical connector -5- out of upper part of rear wall in -direction of arrow-.



Installing



WARNING

- ◆ **Follow safety regulations for pyrotechnic components**
⇒ [page 1](#) .
- ◆ **Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.**

Install in reverse order, but note the following:



Note

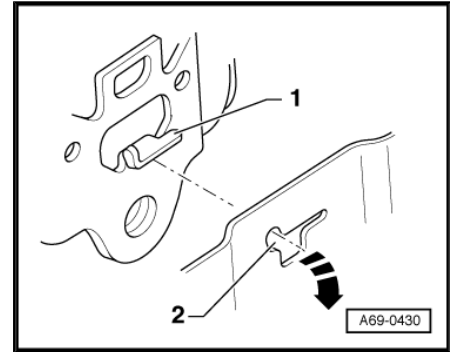
- ◆ Ensure electrical connector is pushed fully onto stop and engages audibly.
- ◆ If parts of the belt system are removed because of an accident, the belt system bolts must be renewed.
- Fit belt inertia reel ensuring that anti-rotation tab -1- engages in mounting -2- -arrow- and tighten bolt.



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

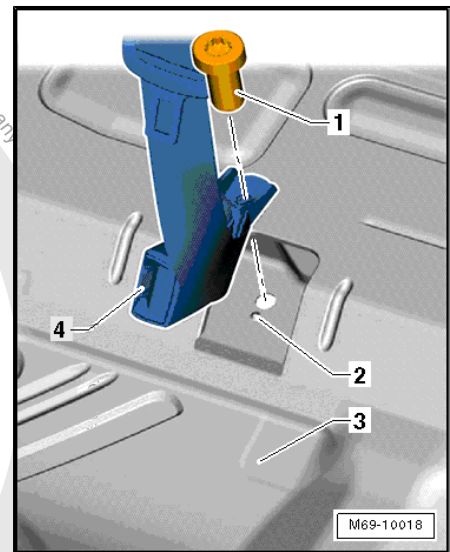
- Connect battery earth cable with ignition switched on => Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .



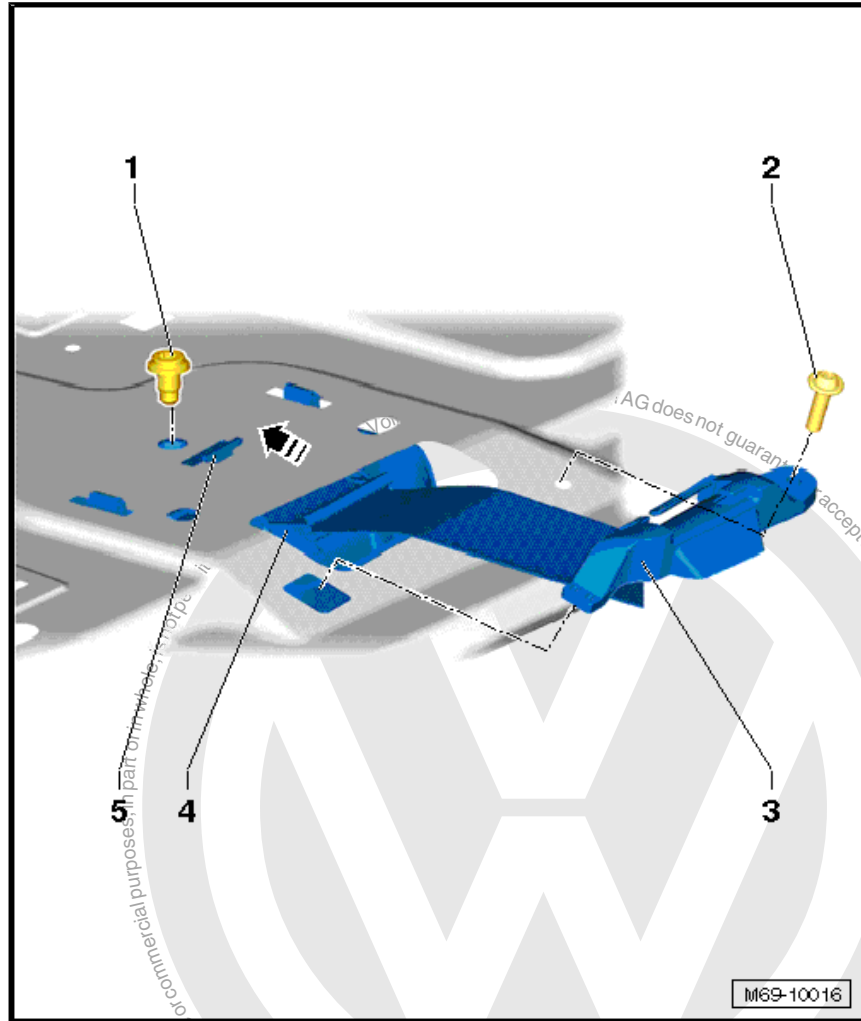
1.5 Removing and installing rear middle three-point seat belt

Removing

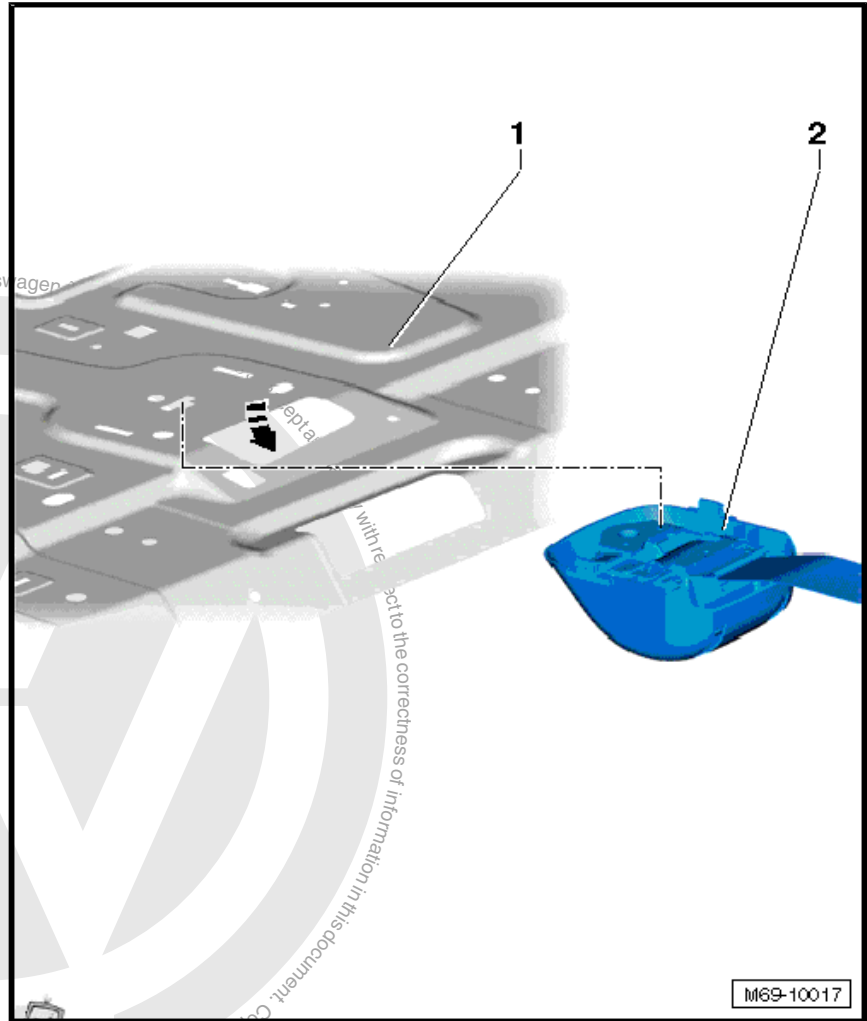
- Remove bench seat => [page 270](#) .
- Remove rear shelf => [page 211](#) .
- Undo bolt -2- (40 Nm) and remove single belt buckle -4- from fastening buckle -2- of body -3-.



- Release backrest and fold forwards.
- Remove bolt -2- (8 Nm) and remove belt guide -3- from upper part of rear wall.
- Remove bolt -1- (40 Nm).
- Unhook catch -5- of belt inertia reel -4- in direction of arrow.



- Working from the luggage compartment, remove complete middle seat belt -2- from upper part of rear wall -1- in -direction of arrow-.



Installing

- If parts of the belt system are removed because of an accident, the belt system securing bolts must be renewed.
- Fit three-point seat belt ensuring that anti-rotation tab engages in mounting and tighten bolt (40 Nm).

Further installation is performed in reverse order of removal

1.6 Removing and installing front belt height adjuster



Note

*Removal and installation are described for the left vehicle side.
Follow same instructions for the right side as appropriate.*

Removing

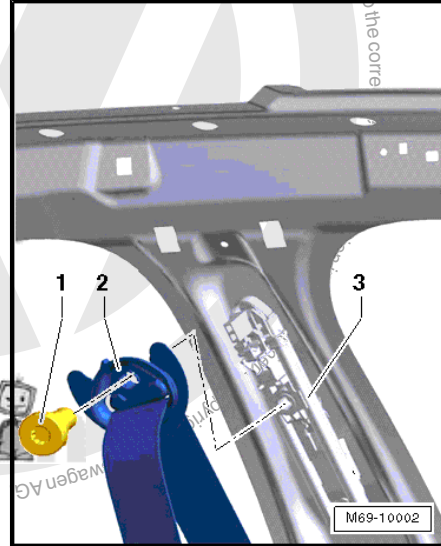
- Remove upper B-pillar trim ⇒ [page 197](#) .



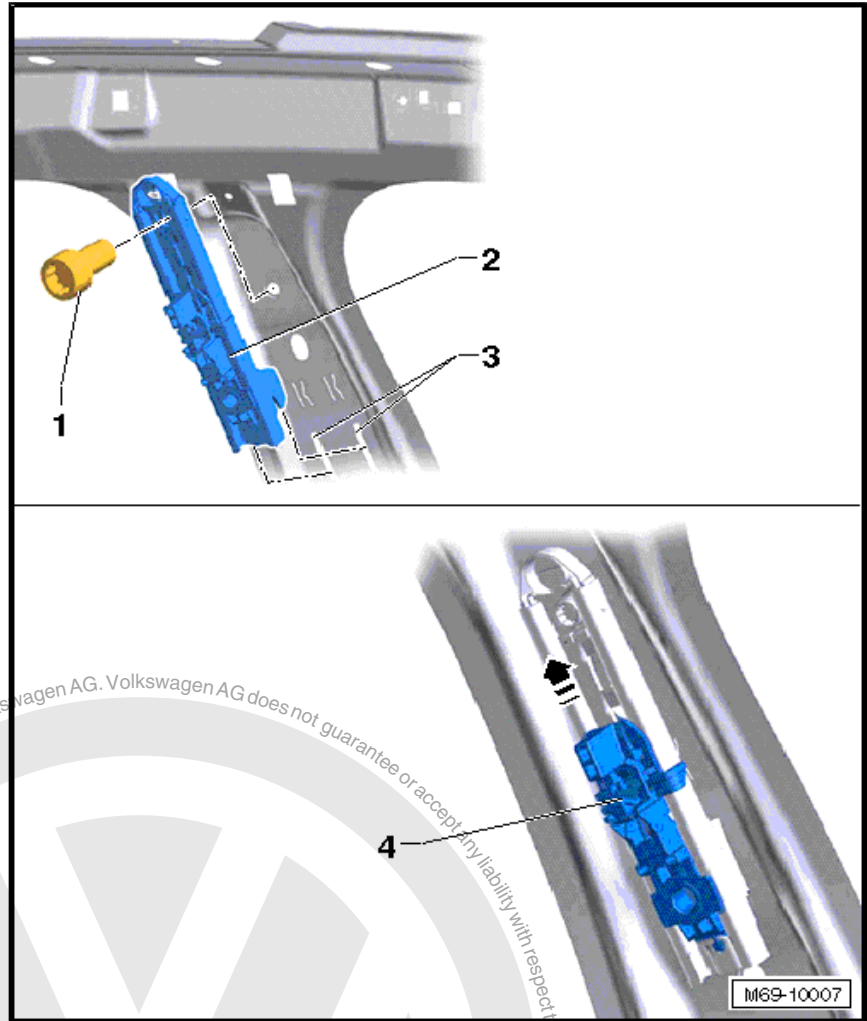
Note

There is no need to remove the belt anchor or anchor rail for seat belt .

- Remove bolt -1- (40 Nm) and detach belt guide anchor -2- from belt height adjuster -3-.



- Unscrew bolt -1- and remove belt height adjuster -2- from mountings -3-.



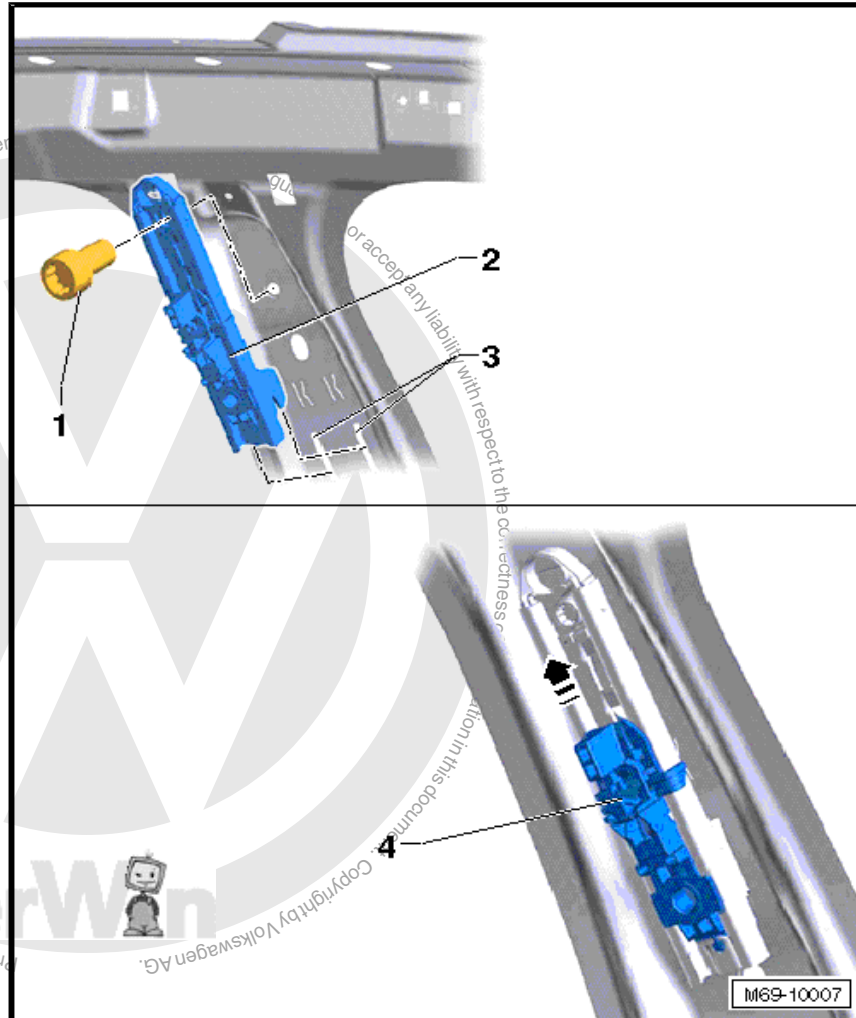
Installing



Note

If parts of the belt system are removed because of an accident, the belt system bolts must be renewed.

- Insert belt height adjuster -2- into mountings -3-.
- Tighten bolt -1- (20 Nm).
- Push belt adjuster slide -4- upwards in -direction of arrow- as far as it will go.



i Note

For installation of the top B-pillar trim, the belt adjuster slide -4- must be in the uppermost position. In another position, the slide can crack at the rated break point.

- Further installation is performed in the reverse order of removal.
- Check the following functions:
 - Belt height adjuster must engage audibly in each of the 3 possible positions (including top position).
 - Belt height adjuster button must return to top position after any operation.
 - Belt guide fitting must move to vertical position or operated position on its own.

If one of the requirements is not fulfilled, check belt height adjuster for correct installation and renew it if necessary.

- Fitting upper B-pillar trim ⇒ [page 199](#) .



1.7 Removing and installing front belt buckle with belt switch -E24- / -E25-



Note

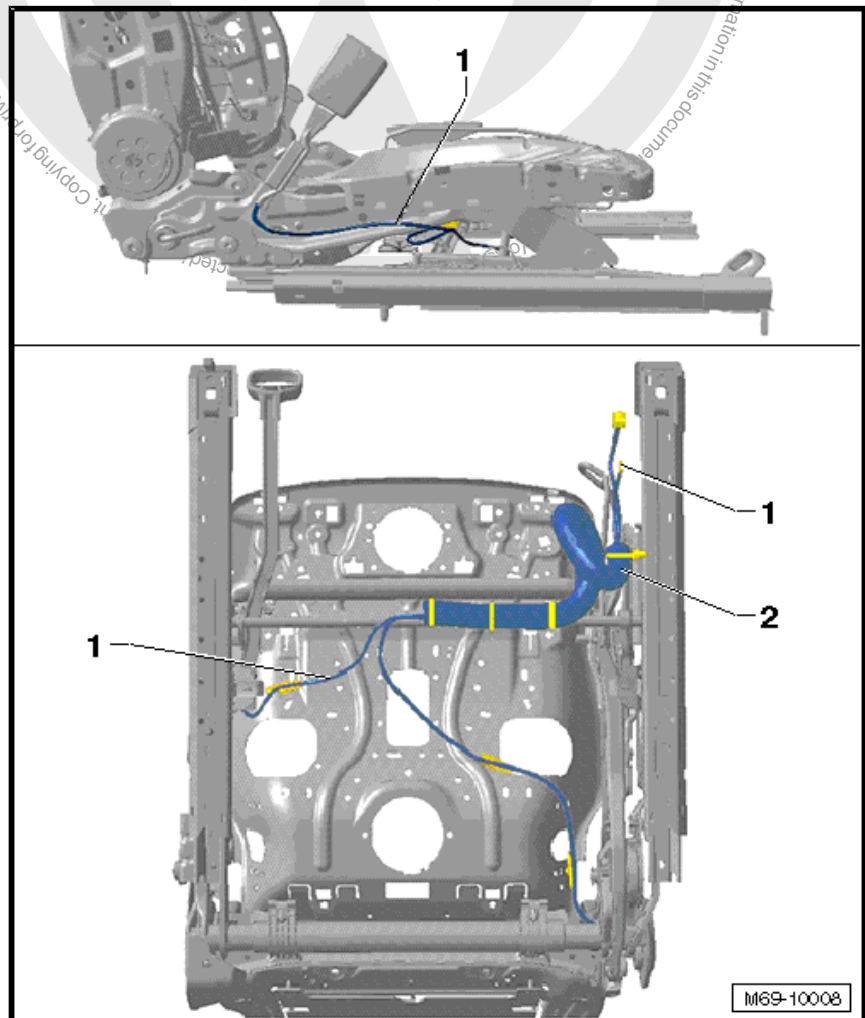
Removal and installation is described for left side of vehicle. Follow same instructions for removal and installation of belt buckle on right side as appropriate.

Removing

- Mount seat repair stand -VAS 6136- on engine and gearbox support -VAS 6095- .
- Remove front seat ⇒ [page 244](#) .
- Fasten seat on seat repair stand -VAS 6136- .
- Position seat in rearmost seat position.

Seat with manual height adjustment:

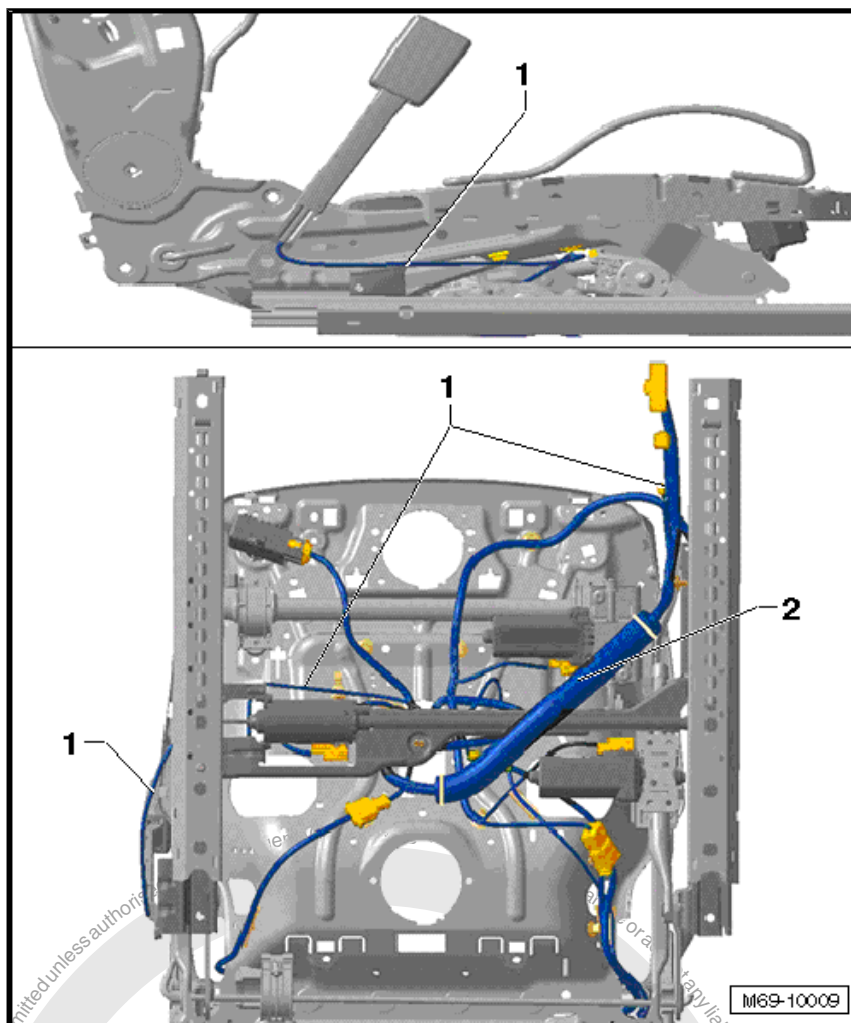
- Detach wiring harness -1- from seat frame.
- Guide wiring harness -1- out of seat wiring harness -2-.





Seat with electrical height adjustment:

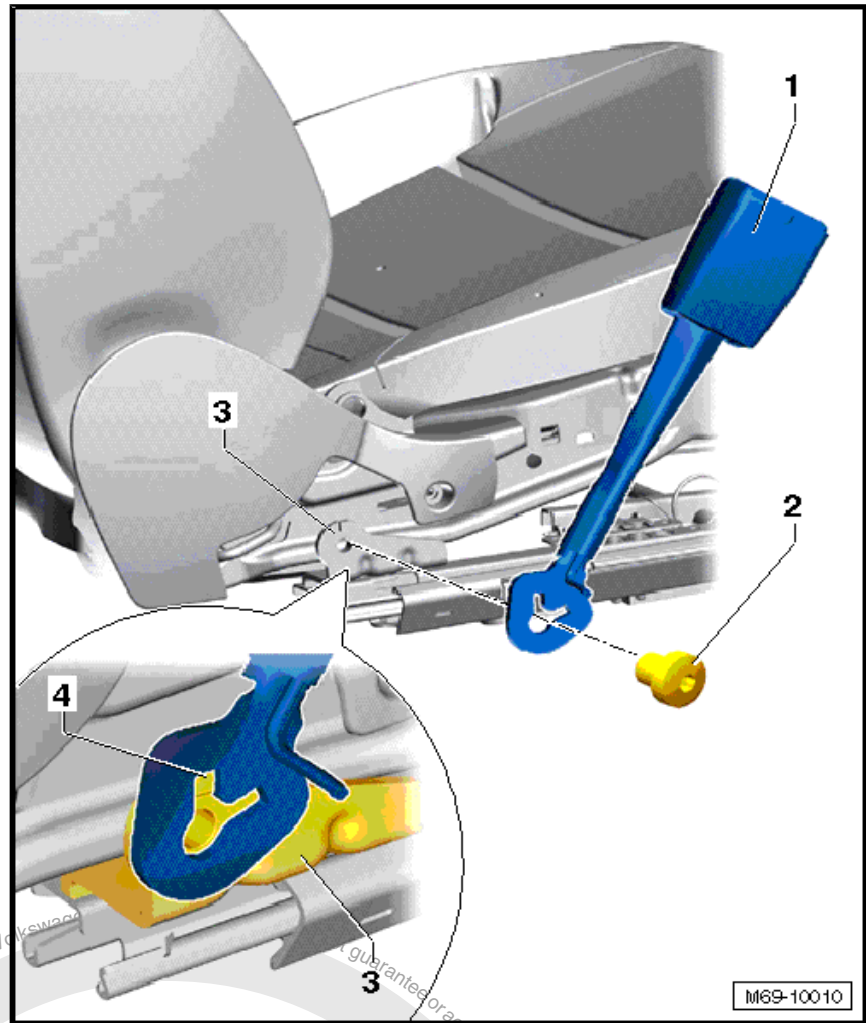
- Detach wiring harness -1- from seat frame.
- Guide wiring harness -1- out of seat wiring harness -2-.



- Remove bolt -2- (20 Nm).

Note

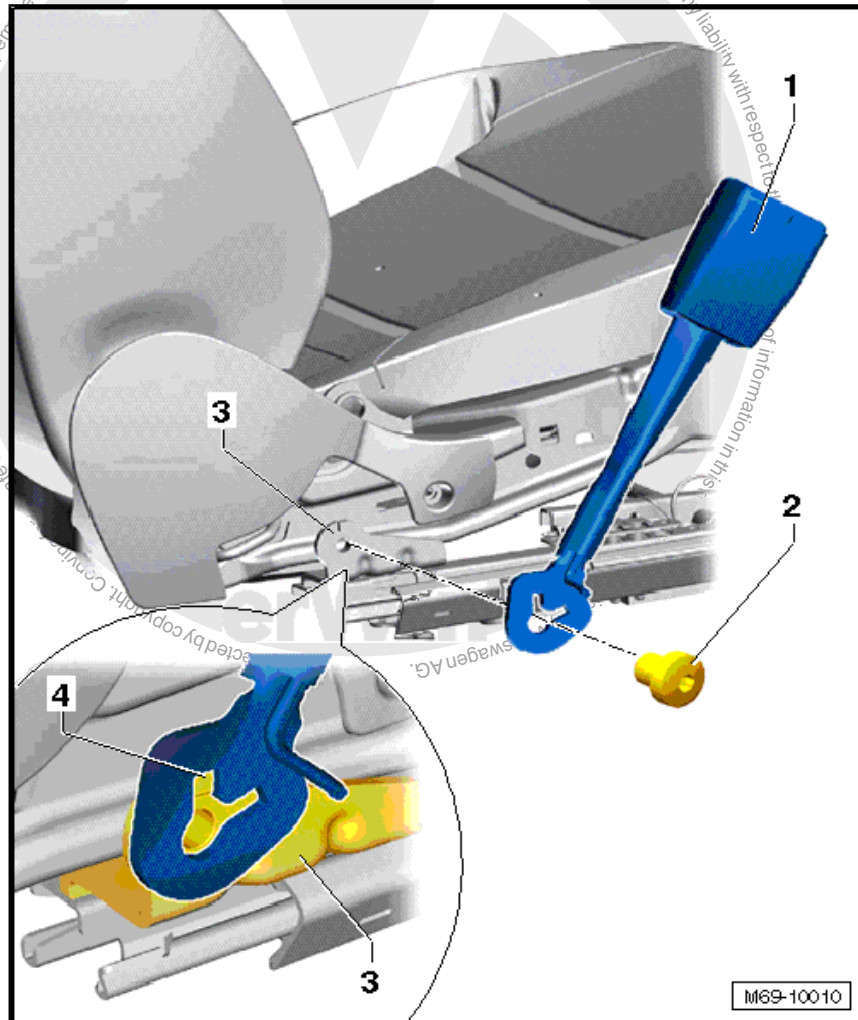
- ◆ *The bolt -2- is microencapsulated and must be renewed each time it is removed.*
- ◆ *Before a new bolt is installed, the thread of the nut must be cleaned and chased as necessary.*
- Remove belt buckle -1- from mounting -3-.



Installing

Install in reverse order, but note the following:

- Place belt buckle -1- onto mounting -3- in such a way that the dog point -4- together with the belt buckle -1- latches into place.



WARNING

- ◆ Follow safety regulations for pyrotechnic components
⇒ [page 1](#) .
- ◆ Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.
- ◆ Follow the procedure for installing the front seat
⇒ [page 244](#) .

1.8 Removing and installing rear double belt buckle

Removing

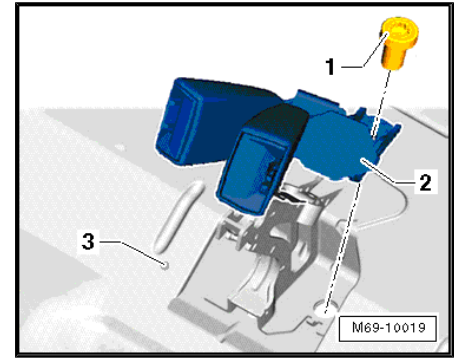
- Remove bench seat ⇒ [page 270](#) .
- Remove backrest ⇒ [page 271](#) .



- Unscrew bolt -1- (40 Nm) and remove double belt buckle -2- from body -3-.

Installing

- Install in reverse order of removal.





2 Child seat anchors

⇒ [“2.1 Points to check”, page 76](#)

⇒ [“2.2 Child seat anchors in rear shelf”, page 76](#)

2.1 Points to check

- ◆ Child seat anchors must be checked for damage and deformation after an accident.
- ◆ Child seat anchors welded to body must not be repaired or straightened.
- ◆ If child seat anchors bolted to body are damaged or deformed, they must be renewed.

2.2 Child seat anchors in rear shelf



Note

*Child seat anchors in rear shelf cannot be removed and installed.
They are welded to the upper part of rear wall.*



3 Airbag system

⇒ ["3.1 Airbag system", page 77](#)

⇒ ["3.2 Adapting components", page 78](#)

3.1 Airbag system

1 - Airbag unit on driver side

- ❑ Removing and installing
⇒ [page 82](#)

2 - Airbag warning lamp -K75-

3 - Airbag unit on front passenger side

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

4 - Side airbag, driver side

- ❑ Removing and installing
⇒ [page 92](#)

5 - Side airbag, front passenger side

- ❑ Removing and installing
⇒ [page 92](#)

6 - Rear side airbag, driver side

- ❑ Removing and installing
⇒ [page 94](#)

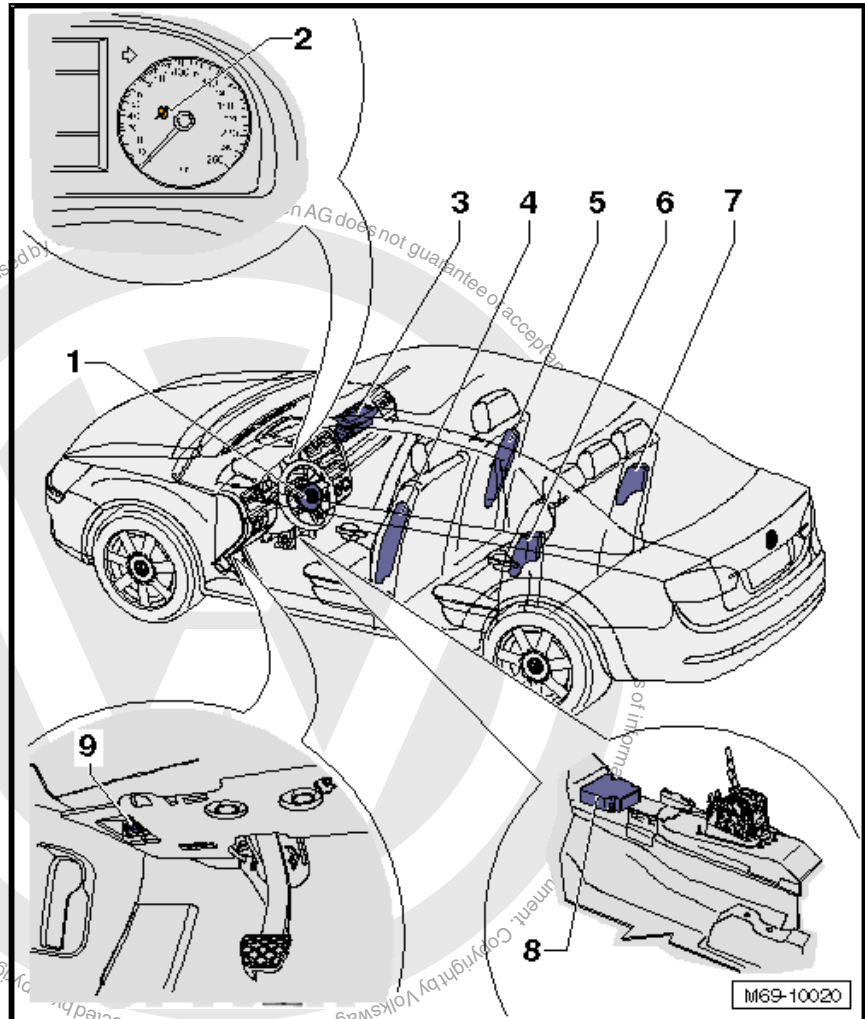
7 - Rear side airbag, front passenger side

- ❑ Removing and installing
⇒ [page 94](#)

8 - Airbag control unit -J234-

- ❑ Removing and installing
⇒ [page 79](#)
- ❑ Adapting components (coding) ⇒ [page 78](#)

9 - Diagnosis connector





10 - Curtain airbag, driver side

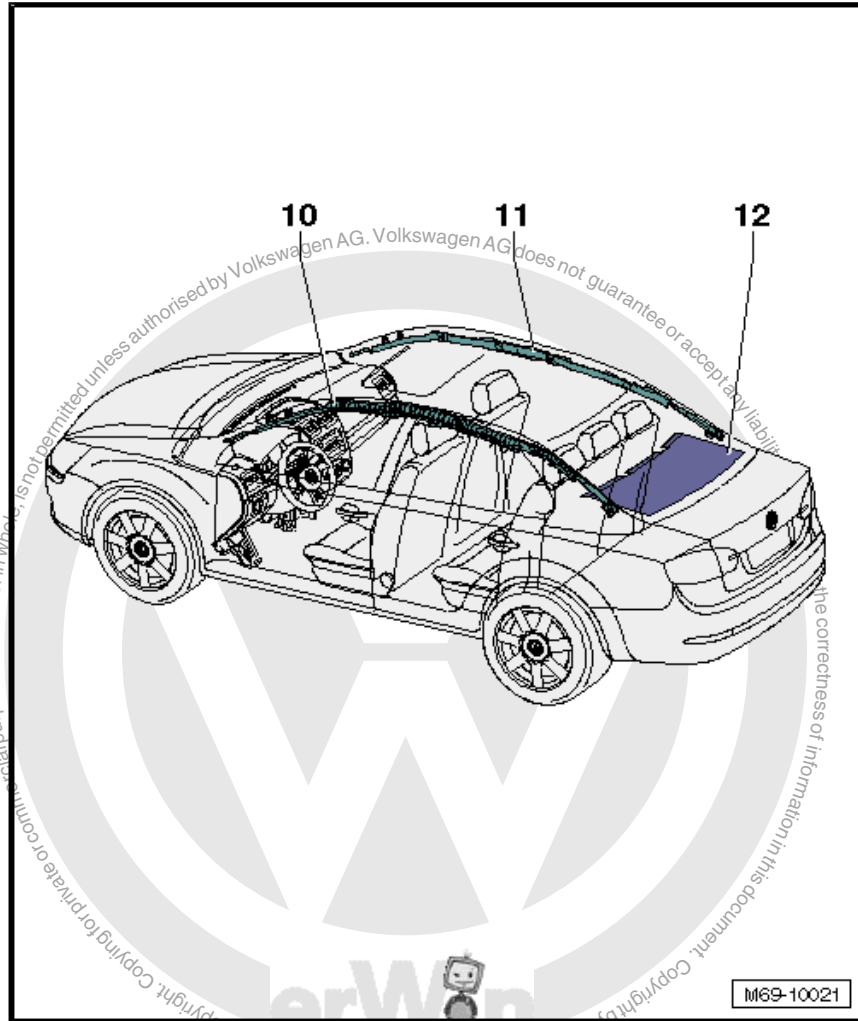
- ❑ Removing and installing
⇒ [page 97](#)

11 - Curtain airbag, front passenger side

- ❑ Removing and installing
⇒ [page 97](#)

12 - Rear shelf/upper part of rear wall with child seat anchors (ISOFIX)

- ❑ Removing and installing rear shelf ⇒ [page 211](#)
- ❑ Anchoring shackles cannot be removed and installed. They are welded to the upper part of rear wall.
- ❑ Anchoring shackles cannot be repaired or straightened.
- ❑ Deformed anchoring shackles are to be replaced.



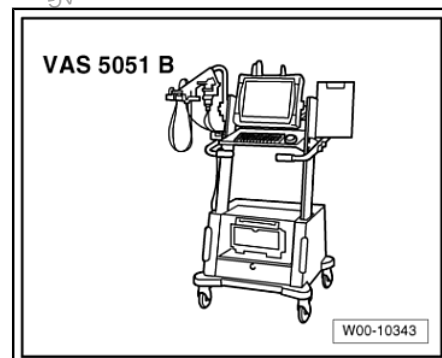
3.2 Adapting components

- ◆ Vehicle diagnostic, testing and information system -VAS 5051B-
- ◆ Diagnosis cable -VAS 5051/1- or -VAS 5051/3-

Select "guided fault finding" in vehicle diagnosis, testing and information system -VAS 5051B- .

Once all control units have been read:

- Press "GoTo".
- Select "Function/component selection".
- Select "Body".
- "General body repairs"
- Select "01 Systems capable of self-diagnosis".
- Select "Airbag".
- Select "Functions".
- Select "Action".





4 Airbag control unit

⇒ "4.1 Assembly overview - airbag control unit", page 79

⇒ "4.2 Removing and installing airbag control unit J234 ", page 79

4.1 Assembly overview - airbag control unit

1 - Airbag control unit -J234-

- ❑ Removing and installing ⇒ page 79 .
- ❑ The control unit is earthed via the housing with the bodywork.

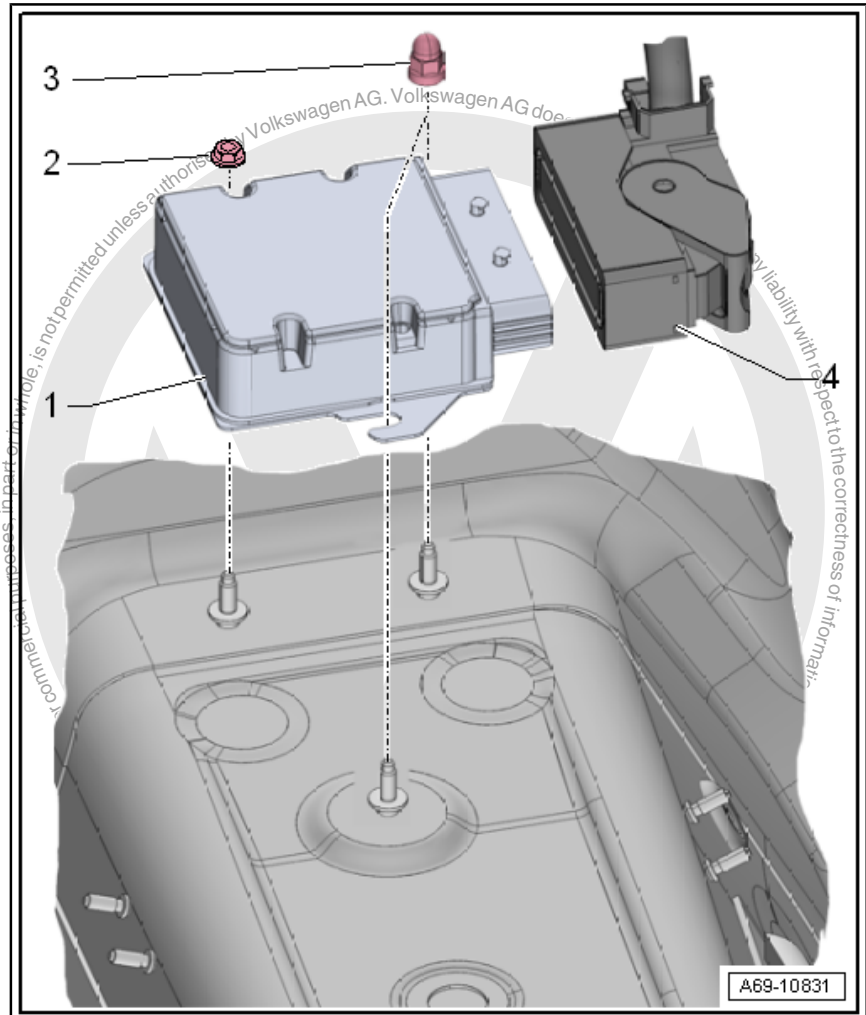
2 - Nut

- ❑ 9 Nm
- ❑ Threads must be free of paint and dirt. Nut and stud are used as earth connection for control unit.

3 - Nut

- ❑ Qty. 2
- ❑ 9 Nm
- ❑ Threads must be free of paint and dirt. Nut and stud are used as earth connection for control unit.

4 - Electrical connections



4.2 Removing and installing airbag control unit -J234-



WARNING

*Follow safety regulations for pyrotechnic components
⇒ page 1 .*

Removing

- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .

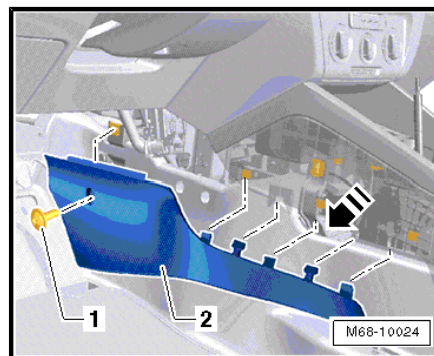


- Remove bolt -1- (1.5 Nm).
- Remove trim -2- of centre console in -direction of arrow-.

i Note

No further components of the centre console need to be removed.

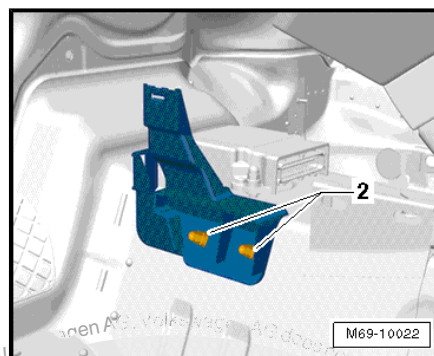
- Undo nut -2- (2.5 Nm).



- Remove bracket -1- from centre tunnel.

i Note

Removal of the right trim and right bracket is identical.

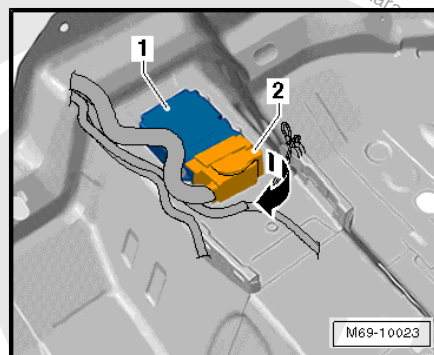


- Open latch -1- of connector in -direction of arrow- and disconnect wiring harness from control unit -1-.

i Note

For greater clarity, the illustration shows the control unit without adjacent components.

- Undo nut -1- (9 Nm).





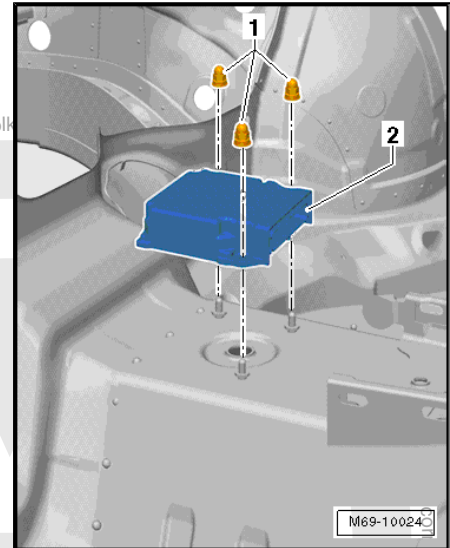
- Remove control unit -2- from centre tunnel.

Installing



WARNING

- ◆ Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .
- ◆ Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.



Install in reverse order, but note the following:



Note

Ensure electrical connector is pushed fully onto stop and engages audibly.



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .



Note

- ◆ If airbag warning lamp -K75- indicates a fault following installation, event memory must be read, deleted and then read again ⇒ Vehicle diagnostic tester.
- ◆ If a new airbag control unit -J234- is installed, the control unit must be encoded ⇒ Vehicle diagnostic tester.

Installation tips: for example tightening torques, renewing components

⇒ ["4.1 Assembly overview - airbag control unit", page 79](#) .



5 Driver's airbag

⇒ **"5.1 Removing and installing driver side airbag igniter N95", page 82**

5.1 Removing and installing driver side airbag igniter -N95-



Note

- ◆ *Removal and installation of the airbag unit is described for the multifunction steering wheel.*
- ◆ *The screwdriver mentioned in the following activities should be about 175 mm long and have a blade width of about 7 mm.*

Removing



WARNING

- ◆ *Follow safety regulations for pyrotechnic components ⇒ [page 1](#).*
- ◆ *Follow disposal regulations for pyrotechnic components ⇒ [page 4](#).*

- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .
- Move steering wheel to lowest position.
- Extend steering wheel as far as possible into passenger compartment.
- Turn steering wheel to position shown.
- Insert a screwdriver into hole in back of steering wheel to stop (approx. 8 mm).
- Turn screwdriver in direction of driver's door -arrow A-. As a result, catch -1- of the airbag unit is released in -direction of arrow B-, on the right-hand side of steering wheel.



Note

If the steering wheel is not a multifunction steering wheel, the airbag unit has to be pulled out of the steering wheel hub after the catch on the top has been released.

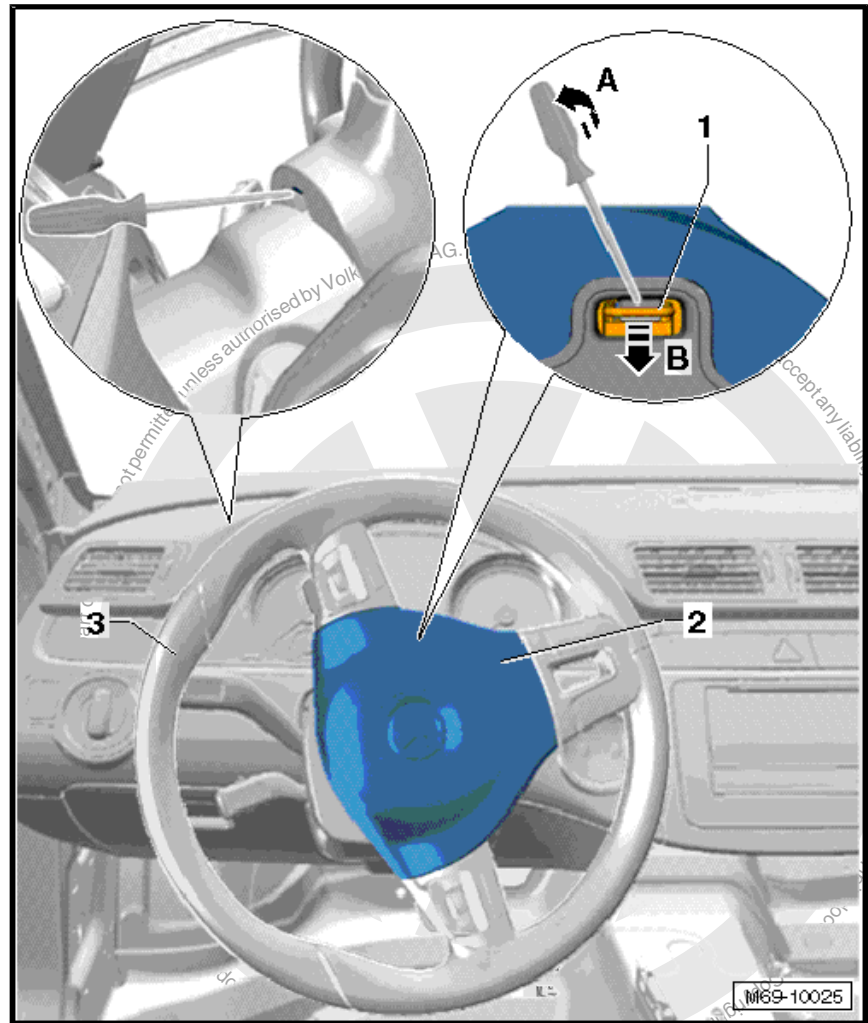
- Turn steering wheel 180° and release catch of airbag unit on left side of steering wheel as described.



Note

If the steering wheel is not a multifunction steering wheel, the airbag unit has to be pulled out of the steering wheel hub after the catch on the top has been released.

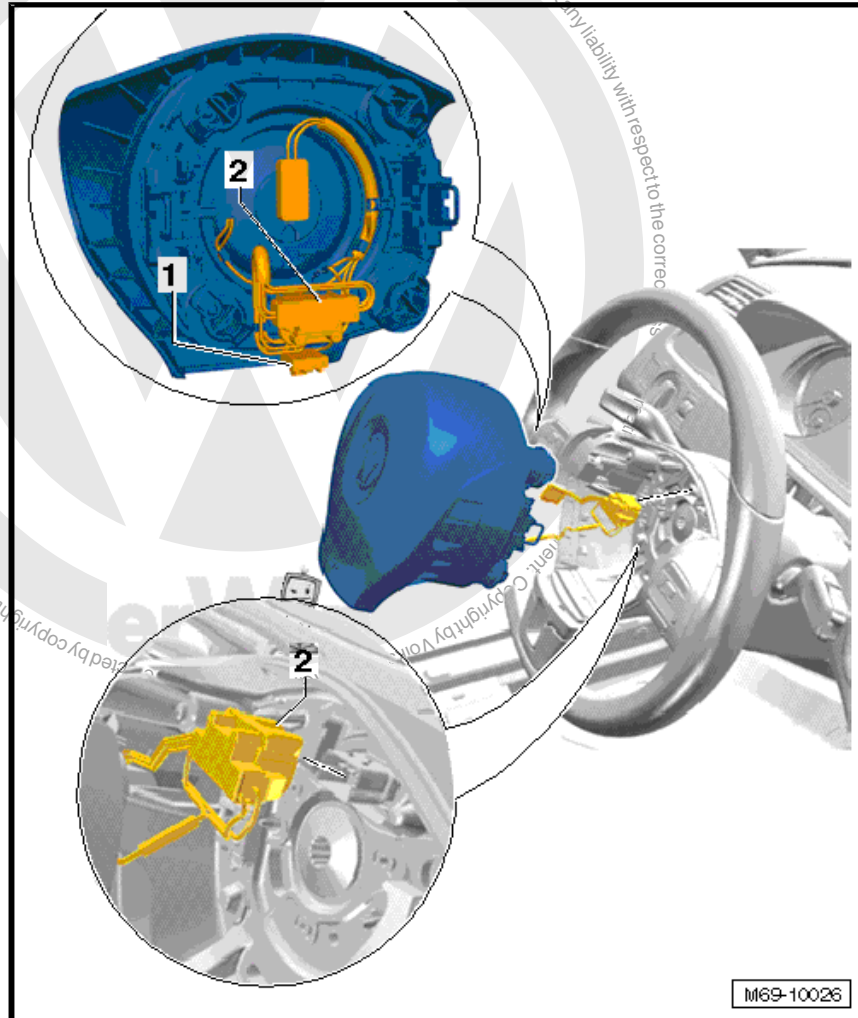
- Turn steering wheel back to middle position.
- Release airbag unit from steering wheel.



WARNING

Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.

- Release connector lock and pull airbag connector -2- off.
- Release connector lock and pull connector -1- off. This procedure is only necessary on multifunction steering wheels.
- Connect/secure airbag connector -2- together with wiring harness to rear of airbag unit.



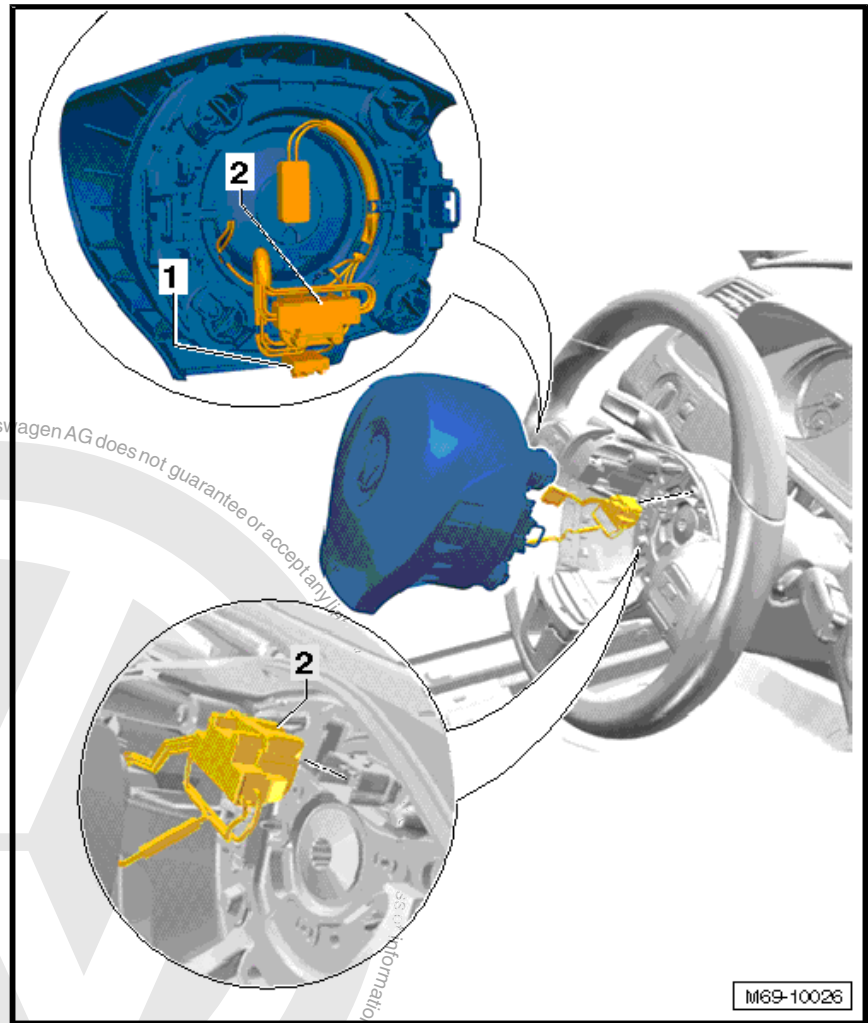
Installing



WARNING

- ◆ **Follow safety regulations for pyrotechnic components**
⇒ [page 1](#) .
- ◆ **Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.**

- Plug airbag connector -2- into plug-in connection. The airbag connector must audibly engage when this is done.
- Insert connector -1- into plug-in connection. This procedure is only necessary on multifunction steering wheels.
- Press airbag unit into steering wheel.
- Lightly pull on the airbag unit to check whether airbag unit has engaged in steering wheel on right and left.



Note

- ◆ Ensure electrical connector is pushed fully onto stop and engages audibly.
- ◆ Ensure that no cables are trapped.



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .
- Finally, read and clear event memory of airbag control unit since faults may be stored as a result of disconnecting electrical connectors ⇒ Vehicle diagnostic tester.



6 Front passenger side airbag

⇒ [“6.1 Advanced Airbag System \(only for USA/Canada\)”, page 86](#)

⇒ [“6.2 Removing and installing front passenger airbag unit with front passenger side airbag igniter N131 / N132 ”, page 86](#)

⇒ [“6.3 Removal and installation of key operated switch to deactivate front passenger airbag E224 ”, page 90](#)

6.1 “Advanced Airbag System” (only for USA/Canada)

The “Advanced Airbag System” has an airbag unit with 2 airbag stages which are triggered in relation to the severity of the accident. If the accident is minor the 2nd stage is not triggered.



WARNING

- ◆ *Airbag units of which only the first stage has been triggered can cause serious injuries if the second stage is triggered.*
- ◆ *Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .*
- ◆ *Follow disposal regulations for pyrotechnic components ⇒ [page 4](#) .*

A way to check whether the 2nd stage has been triggered without doubt is not currently available. For this reason, the airbag units mentioned should be disposed of through the correct channels in their original packaging in accordance with local legislation governing such materials. Contact your importer if in any doubt.



WARNING

Airbag units that have not been triggered should not be disposed of via normal commercial waste systems!

6.2 Removing and installing front passenger airbag unit with front passenger side airbag igniter -N131- / -N132-



WARNING

- ◆ *Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .*
- ◆ *Follow disposal regulations for pyrotechnic components ⇒ [page 4](#) .*
- ◆ *Note assignment of airbag unit to dash panel ⇒ [Electronic parts catalogue](#) .*

Removing

- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .



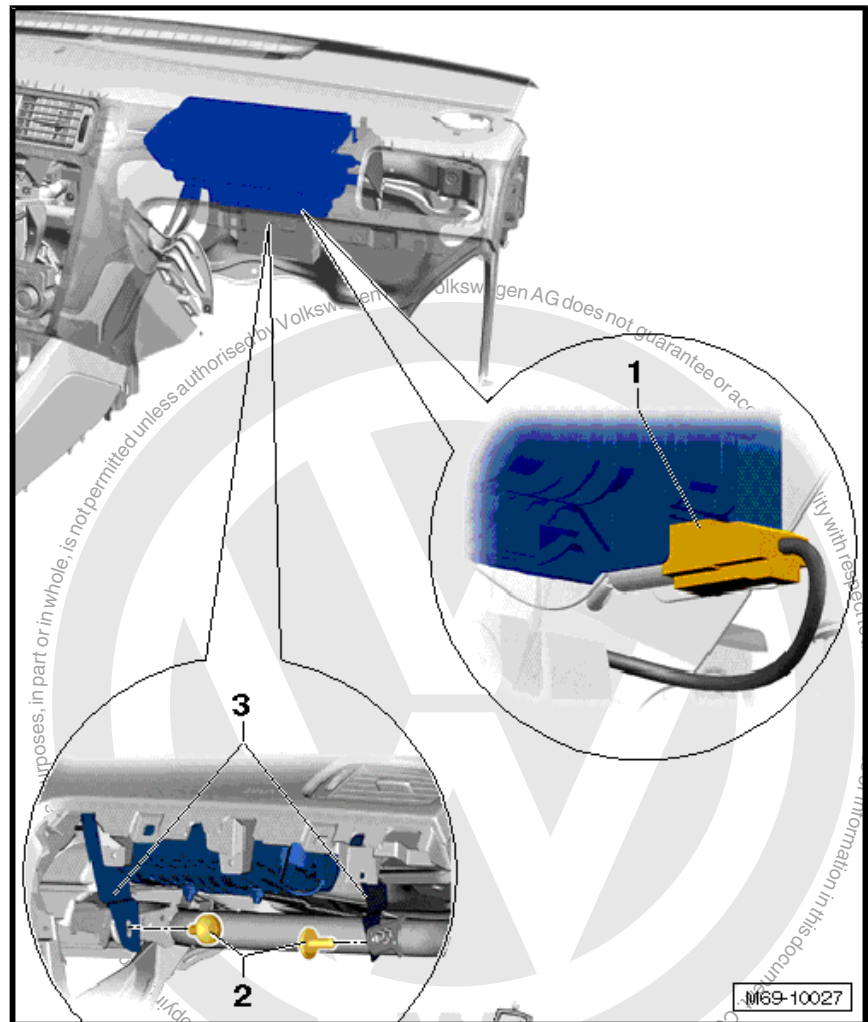
- Remove side dash panel cover ⇒ [page 163](#) .
- Remove centre A-pillar trim ⇒ [page 192](#) .
- Remove glove compartment ⇒ [page 18](#) .



WARNING

Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.

- Disconnect wiring harness -1- from front passenger airbag unit.
- Remove bolts -2- from bracket -3- (9 Nm).



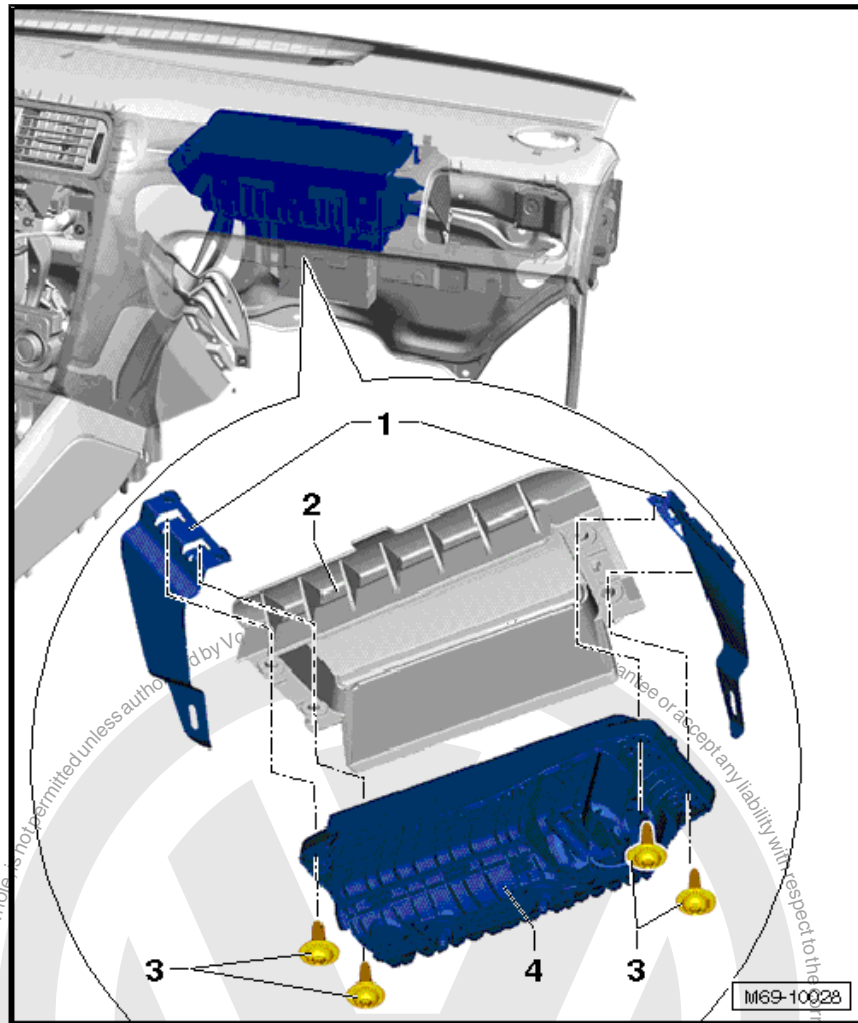
- Undo bolts -3- (9 Nm) and remove front passenger airbag unit -4- from holding frame -2-.



Note

Brackets for front passenger airbag unit -1- are clipped onto retaining frame -2-.

- Unclip bracket -1- and remove it from retaining frame -2-.



WARNING

Place airbag to one side such that the impact padding points upwards.

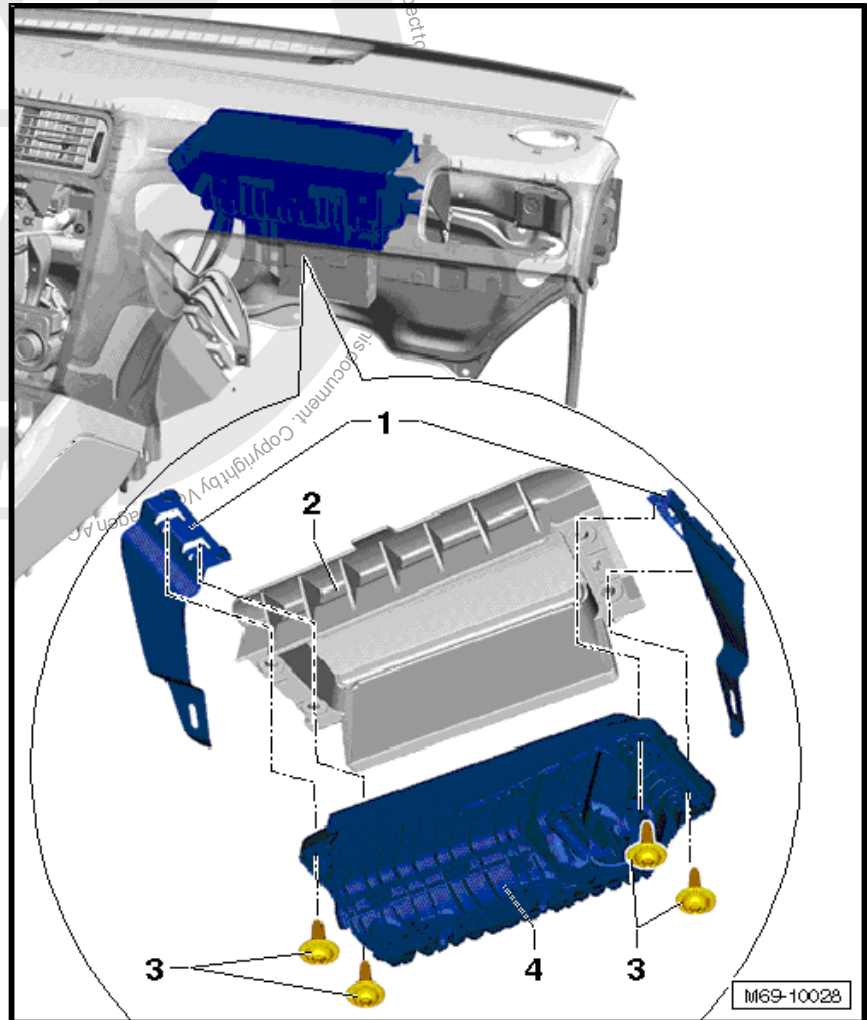


Installing



Note

- ◆ If the housing of the front passenger airbag unit -4- is made of plastic, the bolts -3- (9 Nm) must be secured using the locking fluid D 197 300 A2.
- ◆ Prior to installing front passenger airbag unit -4-, ensure that the four bushes are inserted in retaining frame -2-.



WARNING

- ◆ Follow safety regulations for pyrotechnic components
⇒ [page 1](#) .
- ◆ Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.
- ◆ Note assignment of airbag to dash panel ⇒ *Electronic parts catalogue* .



- Connect connector to airbag igniter.
- Press in connector lock. Doing so, the connector will be fully inserted into airbag igniter and locked at the same time.

Install in reverse order, but note the following:



Note

- ◆ Ensure electrical connector is pushed fully onto stop and engages audibly.
- ◆ Ensure that no cables are trapped.



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .



Note

If airbag warning lamp -K75- indicates a fault following installation, event memory must be read, deleted and then read again ⇒ Vehicle diagnostic tester.

6.3 Removal and installation of key operated switch to deactivate front passenger airbag -E224-

Removing



WARNING

Follow safety regulations for pyrotechnic components ⇒ page 1 .

- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .



- Remove glove compartment => [page 18](#) .



WARNING

Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.

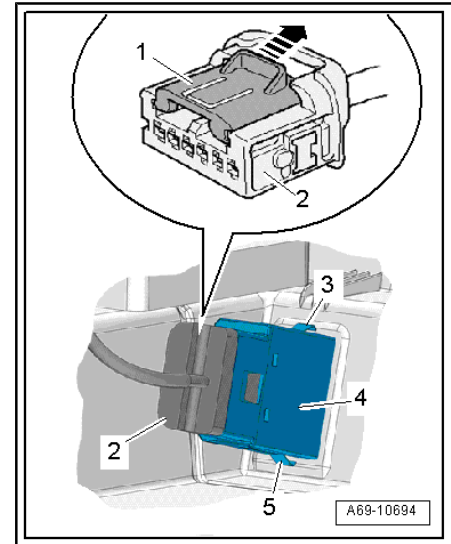
- Press locking detent -1- in -direction of arrow- until connector disengages.
- Pull off connector -2-.
- Release retaining springs -3- and -5- and push key operated switch to deactivate front passenger side airbag -E224- -Pos. 4- out of housing for key operated switch.

Installing



WARNING

- ◆ *Follow safety regulations for pyrotechnic components => [page 1](#) .*
- ◆ *Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.*



Install in reverse order, but note the following:



Note

- ◆ *Ensure electrical connector is pushed fully onto stop and engages audibly.*
- ◆ *Ensure that no cables are trapped.*
- Ensure that key operated switch to deactivate front passenger side airbag -E224- audibly engages in housing.



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on => Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .



Note

If airbag warning lamp -K75- indicates a fault following installation, event memory must be read, deleted and then read again => Vehicle diagnostic tester.



7 Side airbags

⇒ [“7.1 Removing and installing front side airbag with side airbag igniter N199 / N200”](#), page 92

⇒ [“7.2 Removing and installing side airbag with rear side airbag igniter N201 / N202”](#), page 94

7.1 Removing and installing front side airbag with side airbag igniter N199- / - N200-



Note

Removal and installation are described for the left vehicle side. Follow same instructions for the right side as appropriate.



WARNING

- ◆ Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .
- ◆ Also observe the additional safety regulations for the side airbag ⇒ [page 5](#) .
- ◆ Follow disposal regulations for pyrotechnic components ⇒ [page 4](#) .

Removing

- Remove front left seat ⇒ [page 244](#) .
- Remove right trim on seat ⇒ [page 257](#) .

Vehicles without height adjustment

- Remove left trim on seat without adjustable seat height ⇒ [page 250](#) .

Vehicles with manually adjustable seat

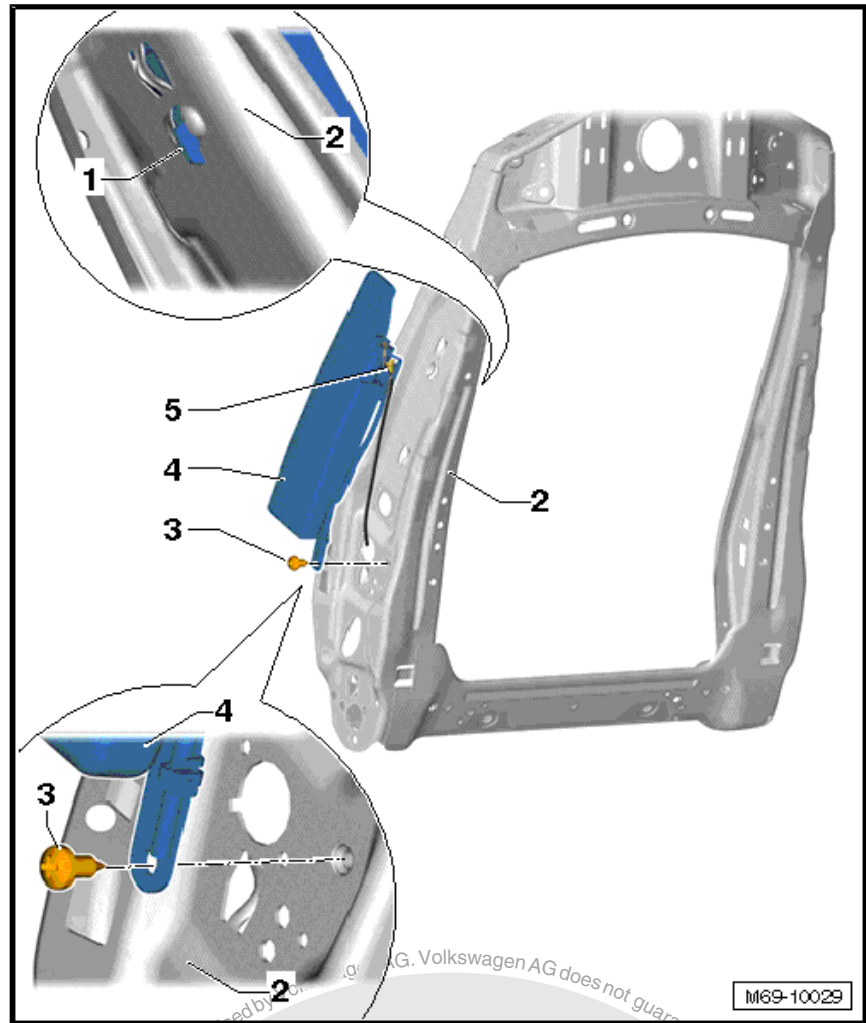
- Remove left trim on seat with manually adjustable seat height ⇒ [page 252](#) .

Vehicles with electrically adjustable seat

- Remove left trim on seat with electric height adjuster ⇒ [page 254](#) .

All vehicles

- Remove front seat backrest ⇒ [page 263](#) .
- Remove cover and backrest padding ⇒ [page 286](#) .
- Detach connector -5- from side airbag -4-.
- Remove bolt -3- (9 Nm).
- Remove catch -1- of side airbag -4- from mounting in backrest frame -2-.
- Remove side airbag -4- from backrest frame -2-.



Installing



WARNING

- ◆ *Follow safety regulations for pyrotechnic components => [page 1](#).*
- ◆ *Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.*

- Install in reverse order of removal.



Note

- ◆ *Ensure electrical connector is pushed fully onto stop and engages audibly.*
- ◆ *Ensure that no cables are trapped.*



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .



Note

If airbag warning lamp -K75- indicates a fault following installation, event memory must be read, deleted and then read again ⇒ Vehicle diagnostic tester.

7.2 Removing and installing side airbag with rear side airbag igniter -N201- / -N202-



Note

Removal and installation are described for the left vehicle side. Follow same instructions for the right side as appropriate.



WARNING

- ◆ **Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .**
- ◆ **Also observe the additional safety regulations for the side airbag ⇒ [page 5](#) .**
- ◆ **Follow disposal regulations for pyrotechnic components ⇒ [page 4](#) .**

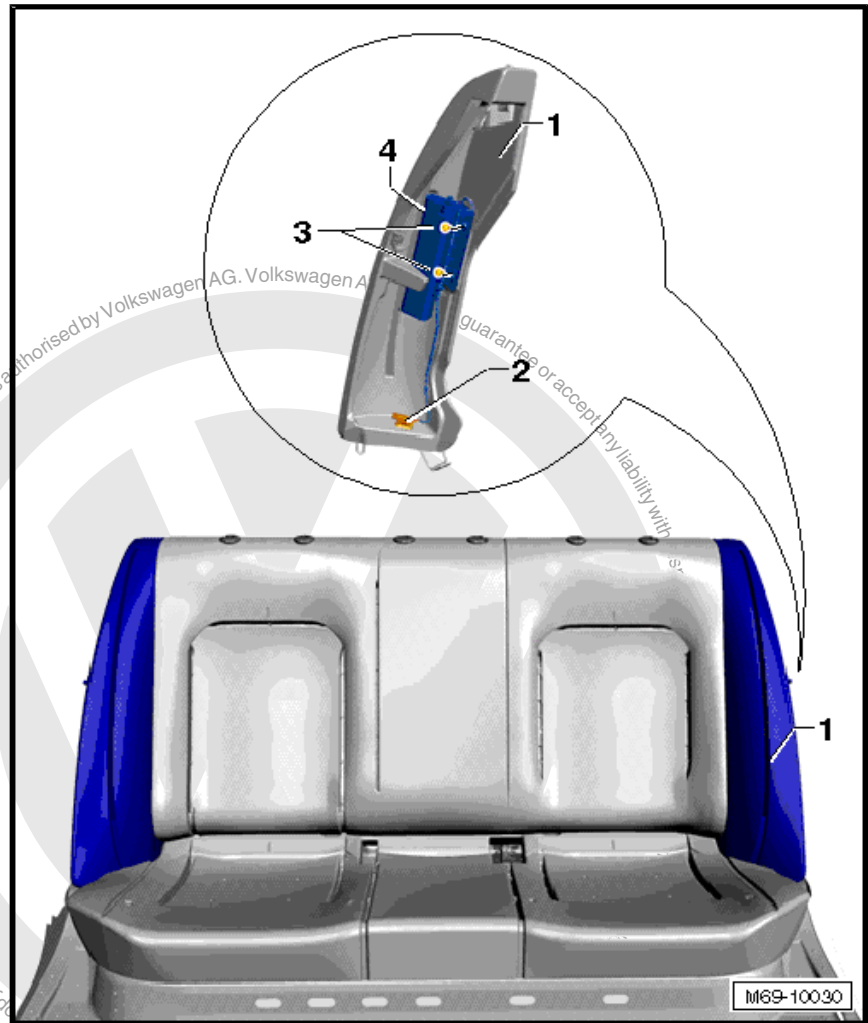
Removing

- Remove side padding together with side airbag -1- ⇒ [page 275](#) .
- Release connector -2- together with wiring harness from side padding -1-.
- Unscrew bolts -3- (9 Nm).



Note

- ◆ *The bolts are microencapsulated and must be renewed each time they are removed.*
 - ◆ *Before new bolts are installed, the threads of the corresponding holes must be cleaned.*
- Remove rear side airbag -4- from side padding -1-.



Installing



WARNING

- ◆ *Follow safety regulations for pyrotechnic components => [page 1](#).*
- ◆ *Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.*

- Install in reverse order of removal.



Note

- ◆ *Ensure electrical connector is pushed fully onto stop and engages audibly.*
- ◆ *Ensure that no cables are trapped.*



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .



Note

If airbag warning lamp -K75- indicates a fault following installation, event memory must be read, deleted and then read again ⇒ Vehicle diagnostic tester.



8 Curtain airbags

⇒ "8.1 Removing and installing curtain airbag with curtain airbag igniter N251 / N252", page 97

8.1 Removing and installing curtain airbag with curtain airbag igniter -N251- / -N252-



Note

Removal and installation are described for the left vehicle side.
Follow same instructions for the right side as appropriate.



WARNING

- ◆ Follow safety regulations for pyrotechnic components
⇒ [page 1](#) .
- ◆ Follow disposal regulations for pyrotechnic components
⇒ [page 4](#) .

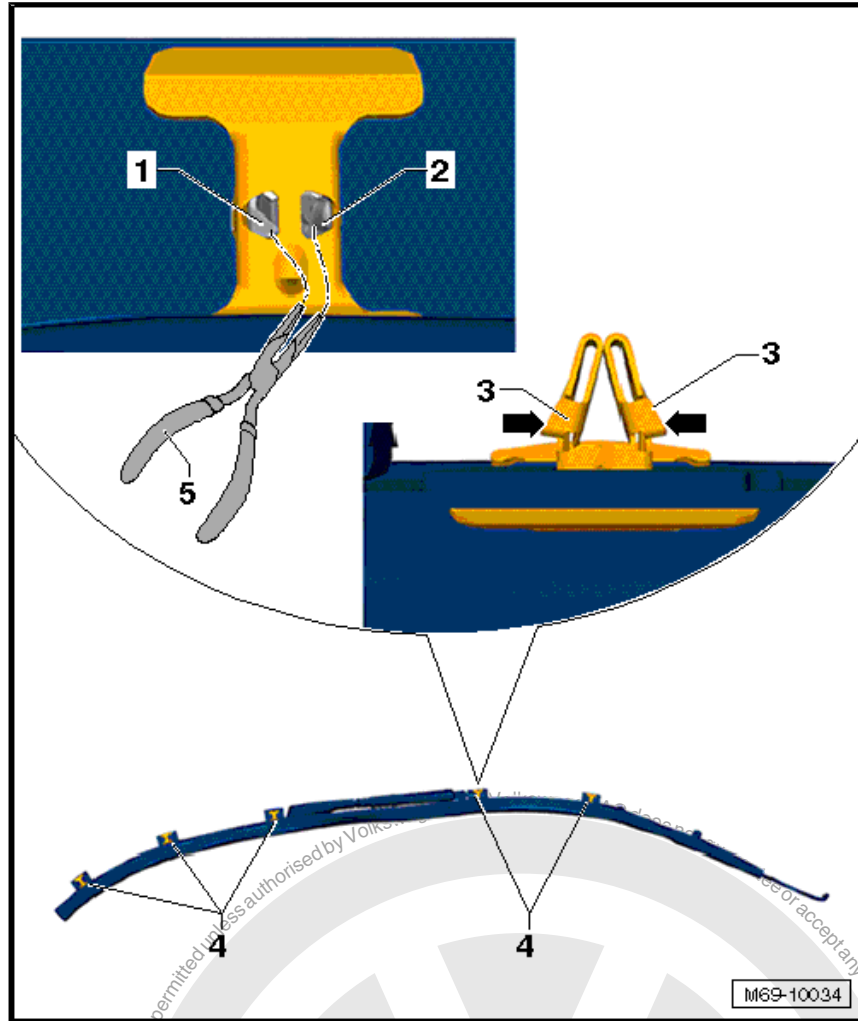
Removing

- Lower moulded headliner (The moulded headliner is not removed from the vehicle, the front seats and front passenger door are not removed) ⇒ [page 230](#) .

Disconnect battery earth cable with ignition switched on ⇒
Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .

Detach retaining clips.

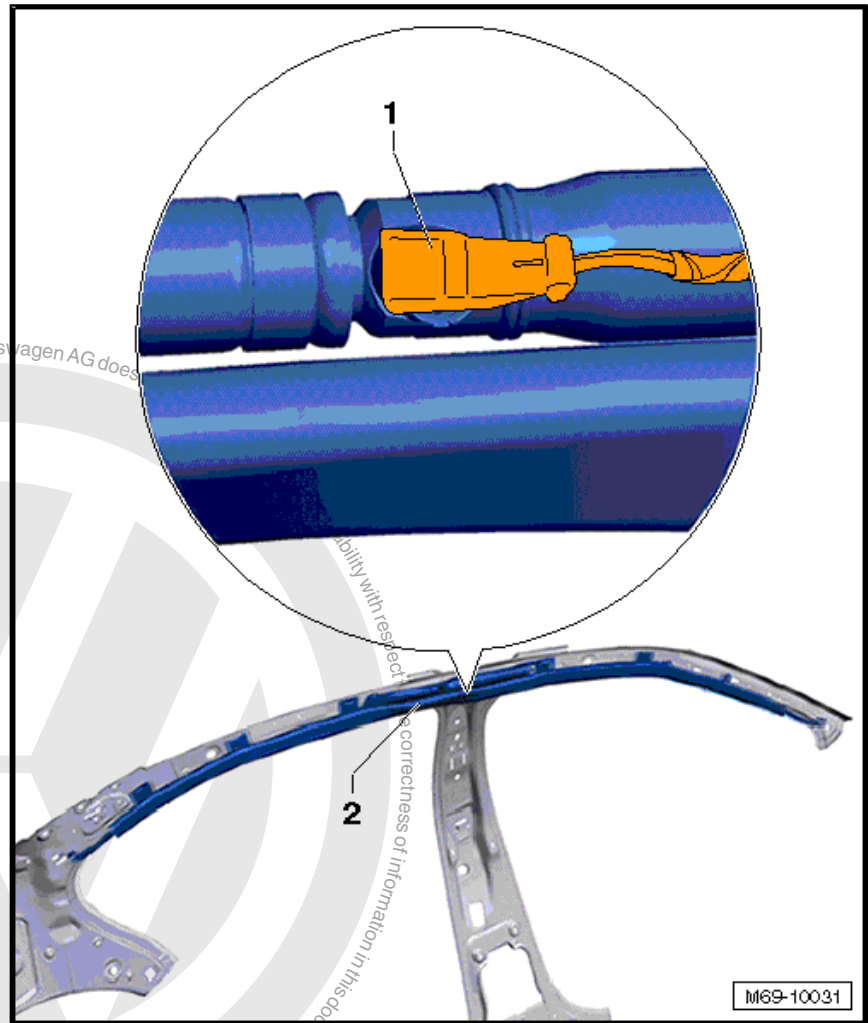
- Insert commercially available needle-nose pliers -5- into openings -1- and -2- of retaining clip -4-
- Press pointed pliers together carefully -arrows-. When you do this, the catches -3- of the retaining clips -4- are released.
- Remove retaining clips -4- from body.



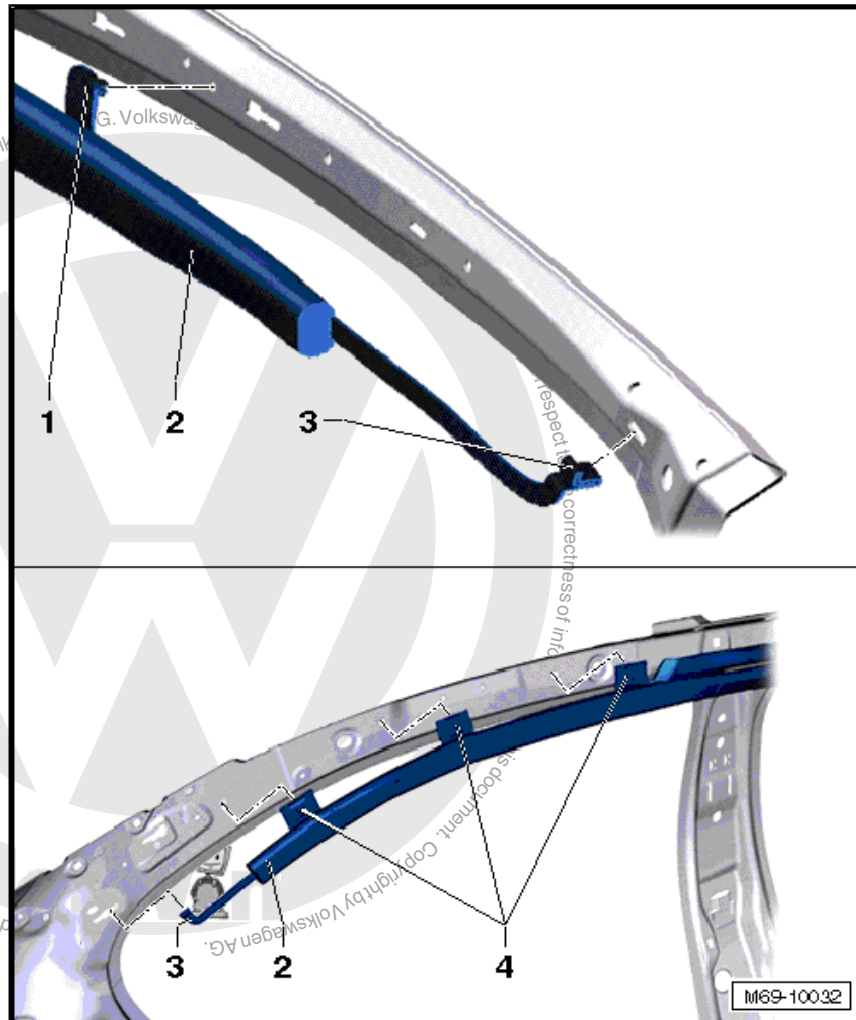
WARNING

Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.

- Detach connector -1- from curtain airbag -2-.



- Detach clipping lugs -1- and -2- of curtain airbag from body.
- Detach retaining clips -4- from body ⇒ [page 97](#) .
- Unhook front and rear fixing links -3- from body.



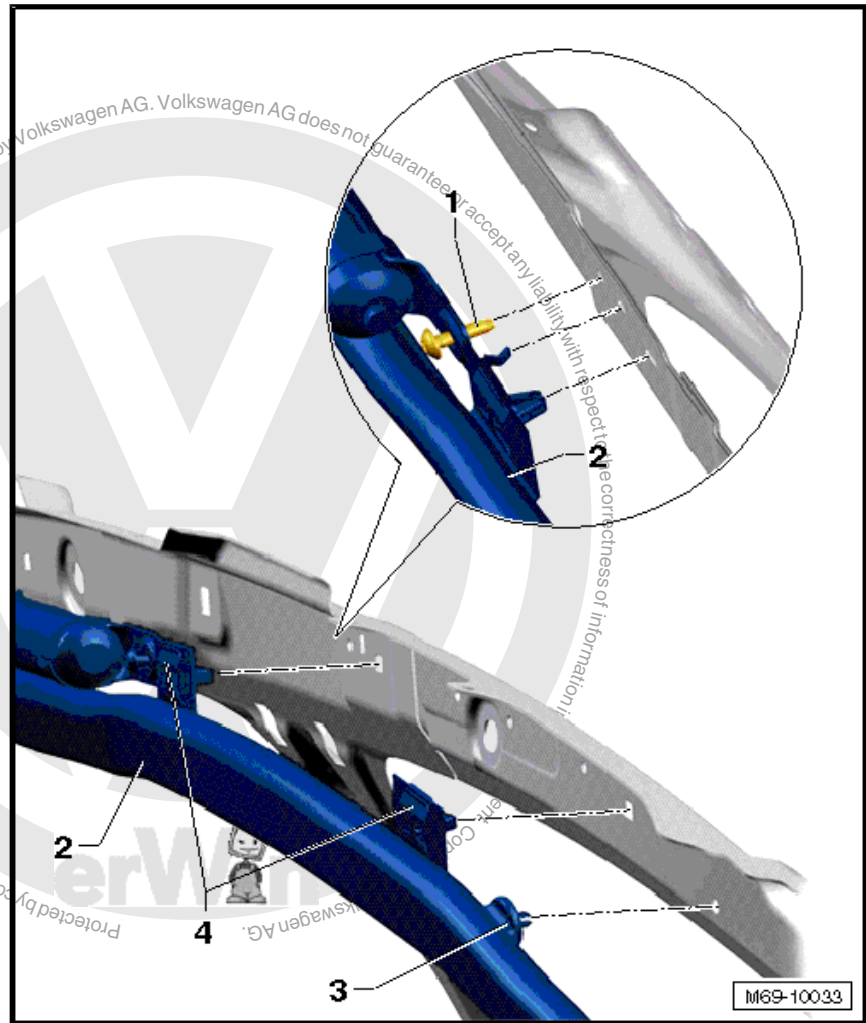
- Remove bolt -1- (4.5 Nm).



Note

The bolt -1- must be renewed.

- Remove clips of -3- of curtain airbag -2- from body.
- Detach retaining clips -4- from body => [page 97](#) .
- Remove curtain airbag -2- from vehicle with the aid of a second mechanic.



Installing



WARNING

- ◆ *Follow safety regulations for pyrotechnic components => [page 1](#).*
- ◆ *Always follow steps of procedure for installing curtain airbag in the given order.*
- ◆ *Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.*



Note

- ◆ *Ensure electrical connector is pushed fully onto stop and engages audibly.*
- ◆ *Ensure that no cables are trapped.*



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery



Note

If airbag warning lamp -K75- indicates a fault following installation, event memory must be read, deleted and read again ⇒ Vehicle diagnostic tester.



9 Airbag crash sensors

⇒ ["9.1 Removing and installing front airbag crash sensor, driver side G283 \(USA\)", page 103](#)

⇒ ["9.2 Front airbag crash sensor, front passenger side G284 \(USA\)", page 105](#)

⇒ ["9.3 Removing and installing side-airbag crash sensor, driver side G179 ", page 106](#)

⇒ ["9.4 Removing and installing side-airbag crash sensor, front passenger side G180 ", page 110](#)

⇒ ["9.5 Removing and installing rear side-airbag crash sensor, driver side G256 ", page 110](#)

⇒ ["9.6 Removing and installing rear side-airbag crash sensor, front passenger side G257 ", page 113](#)

9.1 Removing and installing front airbag crash sensor, driver side -G283- (USA)



Note

Front airbag crash sensor on driver side -G283- can be found on the left-hand side of the lock carrier at the front end of the vehicle.

Removing



WARNING

Follow safety regulations for pyrotechnic components ⇒ [page 1](#).

Risk of injury due to automatic engine starting in vehicles with a start-stop system.

- ◆ *In vehicles with an activated start-stop system (indicated by a message in the dash panel insert), the engine may start automatically if necessary.*
- ◆ *When working on the vehicle, therefore, make sure that the start-stop system is deactivated (switch off the ignition; switch the ignition on again if necessary).*

- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .



WARNING

Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.



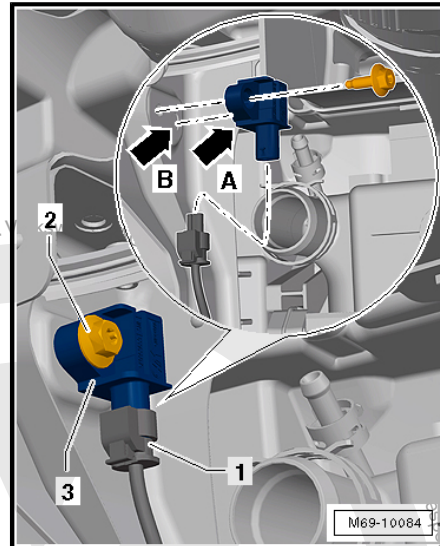
- Release connector locking mechanism and pull off connector -1- from front airbag crash sensor on driver side -G283- -3-.
- Unscrew bolt -2- (4.5 Nm) and remove front airbag crash sensor on driver side -G283- -3-.

Installing



WARNING

- ◆ Follow safety regulations for pyrotechnic components ⇒ [page 1](#).
- ◆ Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.



- Insert front airbag crash sensor on driver side -G283- -3- in such a way that lug -arrow A- engages in hole -arrow B-.



Note

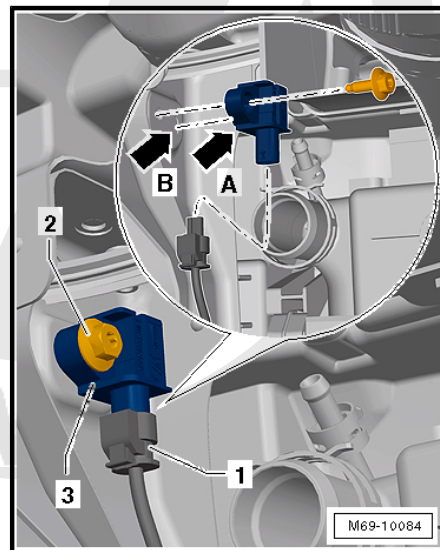
This is the only way to ensure that the front airbag crash sensor on driver side -G283- is installed in the correct position.

- Insert and tighten bolt -2- (4.5 Nm)
- Fit connector -1- and engage connector locking mechanism.



Note

- ◆ Ensure electrical connector is pushed fully onto stop and engages audibly.
- ◆ Ensure that no cables are trapped.



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .



Note

If airbag warning lamp -K75- indicates a fault following installation, event memory must be read, deleted and read again ⇒ Vehicle diagnostic tester.



9.2 Front airbag crash sensor, front passenger side -G284- (USA)



Note

Front airbag crash sensor on front passenger side -G284- can be found on the right-hand side of the lock carrier at the front end of the vehicle.

Removing

WARNING

Follow safety regulations for pyrotechnic components
 ⇒ [page 1](#).

Risk of injury due to automatic engine starting in vehicles with a start-stop system.

- ◆ In vehicles with an activated start-stop system (indicated by a message in the dash panel insert), the engine may start automatically if necessary.
- ◆ When working on the vehicle, therefore, make sure that the start-stop system is deactivated (switch off the ignition; switch the ignition on again if necessary).

- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .

WARNING

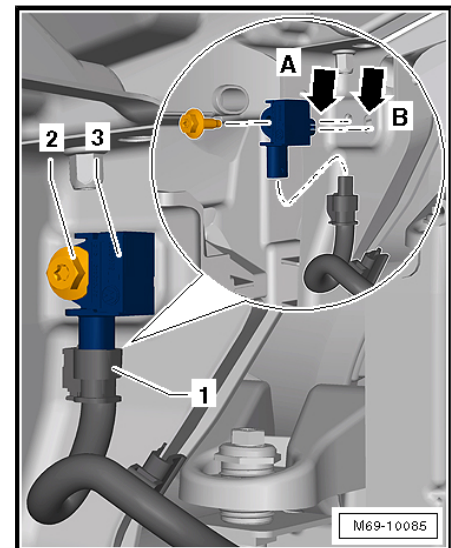
Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.

- Release connector locking mechanism and pull off connector -1- from front airbag crash sensor on front passenger side - G284- -3-.
- Unscrew bolt -2- (4.5 Nm) and remove front airbag crash sensor on front passenger side -G284- -3-.

Installing

WARNING

- ◆ Follow safety regulations for pyrotechnic components
 ⇒ [page 1](#).
- ◆ Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.





- Insert front airbag crash sensor on driver side -G283- -3- in such a way that lug -arrow A- engages in hole -arrow B-

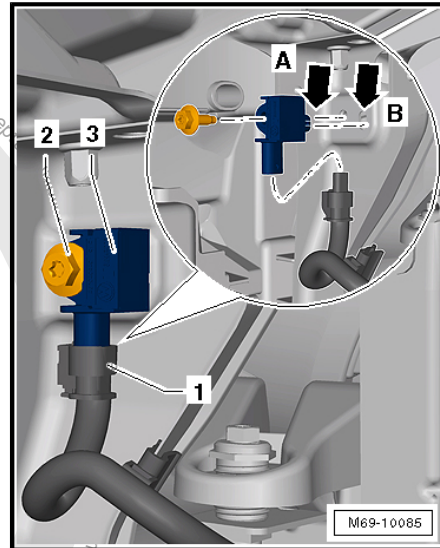
i Note

This is the only way to ensure that the front airbag crash sensor on driver side -G283- is installed in the correct position.

- Insert and tighten bolt -2- (4.5 Nm).
- Fit connector -1- and engage connector locking mechanism.

i Note

- ◆ *Ensure electrical connector is pushed fully onto stop and engages audibly.*
- ◆ *Ensure that no cables are trapped.*



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .

i Note

If airbag warning lamp -K75- indicates a fault following installation, event memory must be read, deleted and read again ⇒ Vehicle diagnostic tester.

9.3 Removing and installing side-airbag crash sensor, driver side -G179-

i Note

The side airbag crash sensor on driver side -G179- is installed on the front door assembly carrier.

Removing



WARNING

- ◆ **Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .**
- ◆ **Observe safety precautions for crash sensors (pressure sensors) for front side airbags ⇒ [page 6](#) .**



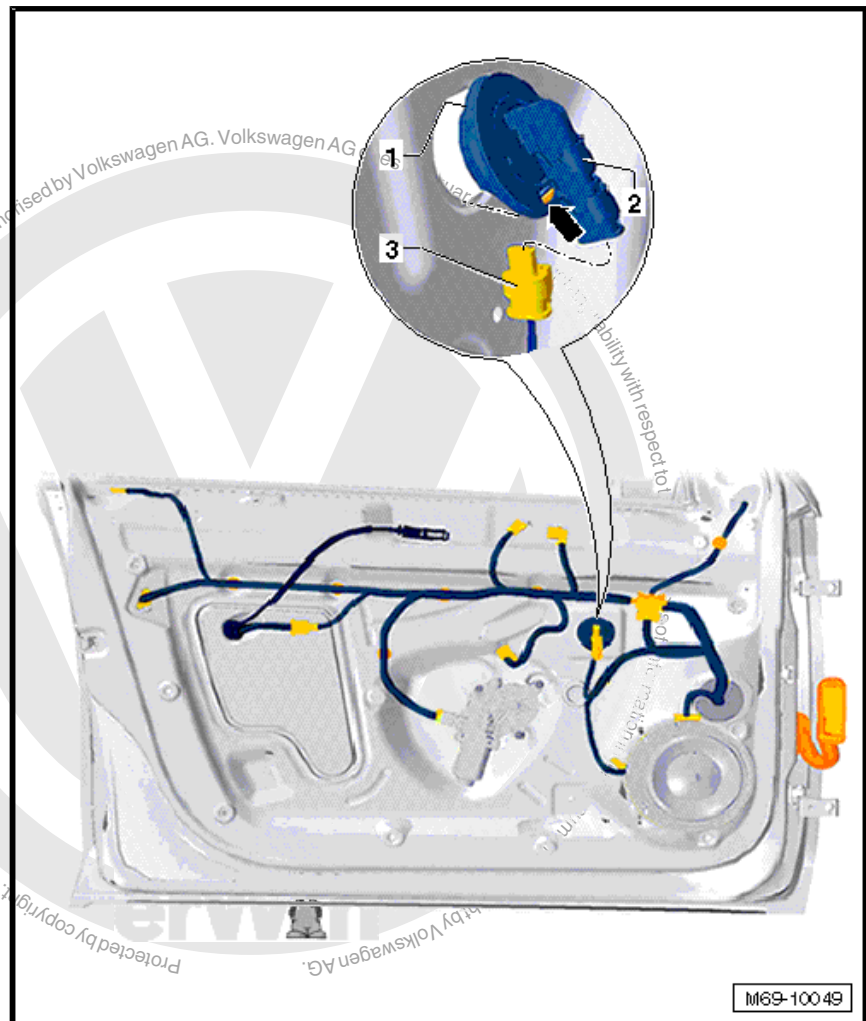
- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .
- Remove front door trim ⇒ [page 145](#)



WARNING

Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.

- Disconnect wiring harness -3- from side airbag crash sensor on driver side -G179- -2-.
- Press catch upwards -arrow- using a screwdriver. Remove bracket -1- together with crash sensor -2- from assembly carrier.





Installing



WARNING

For the crash sensor (pressure sensor) to function properly, it is vital to ensure that the door forms an effective seal.

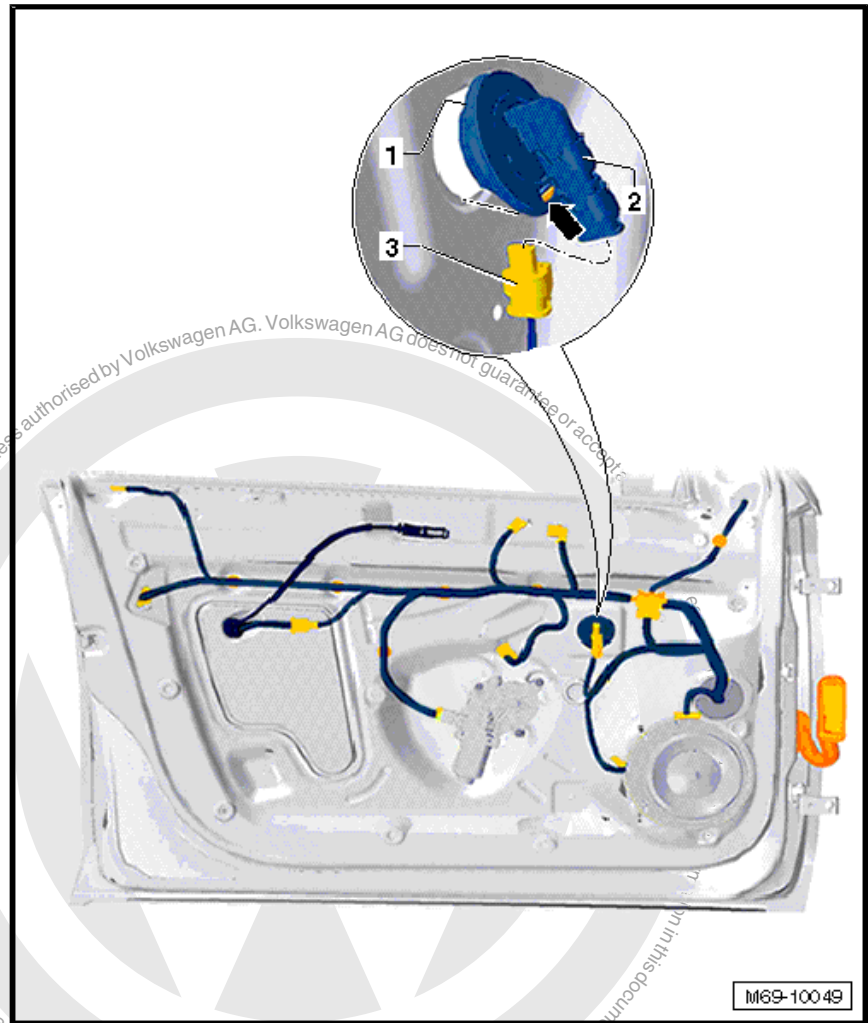


WARNING

- ◆ *Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .*
- ◆ *Observe safety precautions for crash sensors (pressure sensors) for front side airbags ⇒ [page 6](#) .*
- ◆ *Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.*

- Connect connector -3- to crash sensor -1- until it engages audibly.
- Press in connector lock to lock the connector.





Further installation is carried out in reverse order of removal. Observe the following:

i Note

- ◆ Ensure electrical connector is pushed fully onto stop and engages audibly.
- ◆ Ensure that no cables are trapped.

! WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on => Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .



 Note

If airbag warning lamp -K75- indicates a fault following installation, event memory must be read, deleted and read again ⇒ Vehicle diagnostic tester.

9.4 Removing and installing side-airbag crash sensor, front passenger side - G180-

 Note

The side airbag crash sensor on front passenger side -G180- is installed on the front door assembly carrier.



WARNING

- ◆ Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .
- ◆ Observe safety precautions for crash sensors (pressure sensors) for front side airbags ⇒ [page 6](#) .

- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .
- Remove front door trim ⇒ [page 149](#)

 Note

Removal and installation of the side-airbag crash sensor on front passenger side -G180- is analogous to removal and installation of the side-airbag crash sensor on driver side -G179- ⇒ [page 106](#) .

9.5 Removing and installing rear side-airbag crash sensor, driver side -G256-

 Note

The rear side airbag crash sensor on driver side -G256- is located on inside of rear wheel housing.

Removing



WARNING

- ◆ Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .
- ◆ Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.



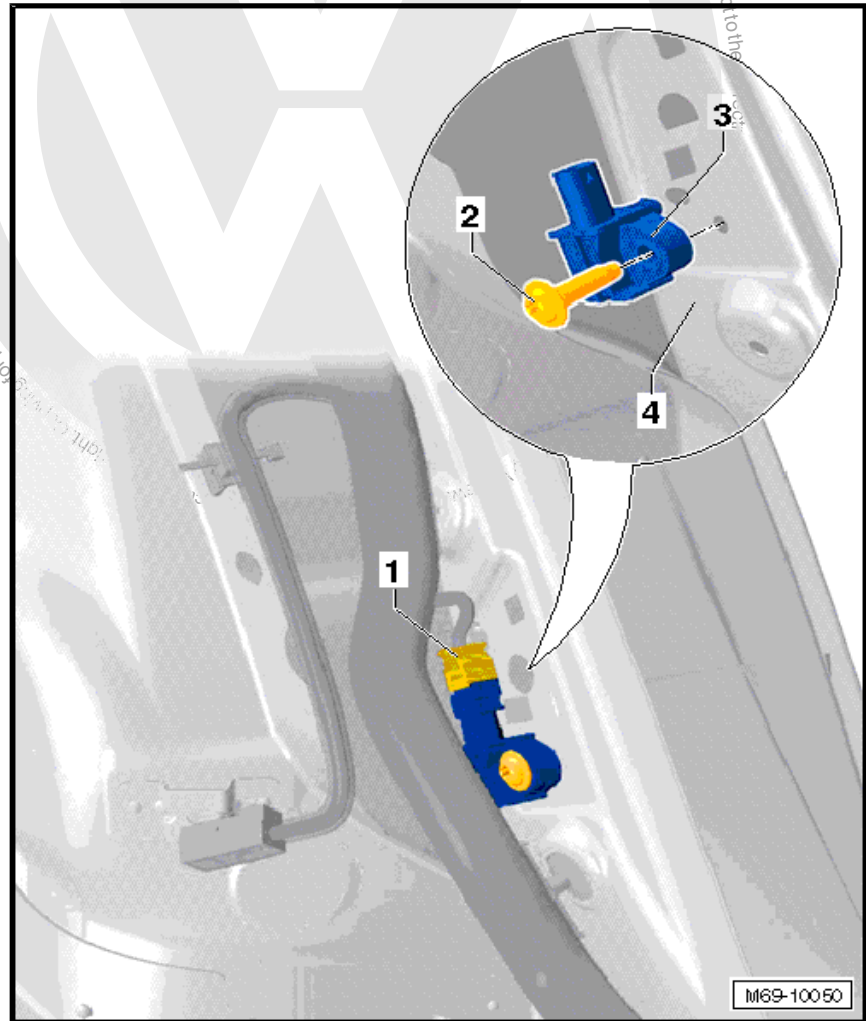
- Disconnect battery earth cable with ignition switched on => Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .
- Remove bench seat => [page 270](#) .
- Remove side padding => [page 275](#) .
- Remove wheel housing trim together with side airbag => [page 208](#) .



WARNING

Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.

- Detach connector -1- from crash sensor -3-.
- Undo bolt -2- (9 Nm) and remove crash sensor -3- from body -4-.





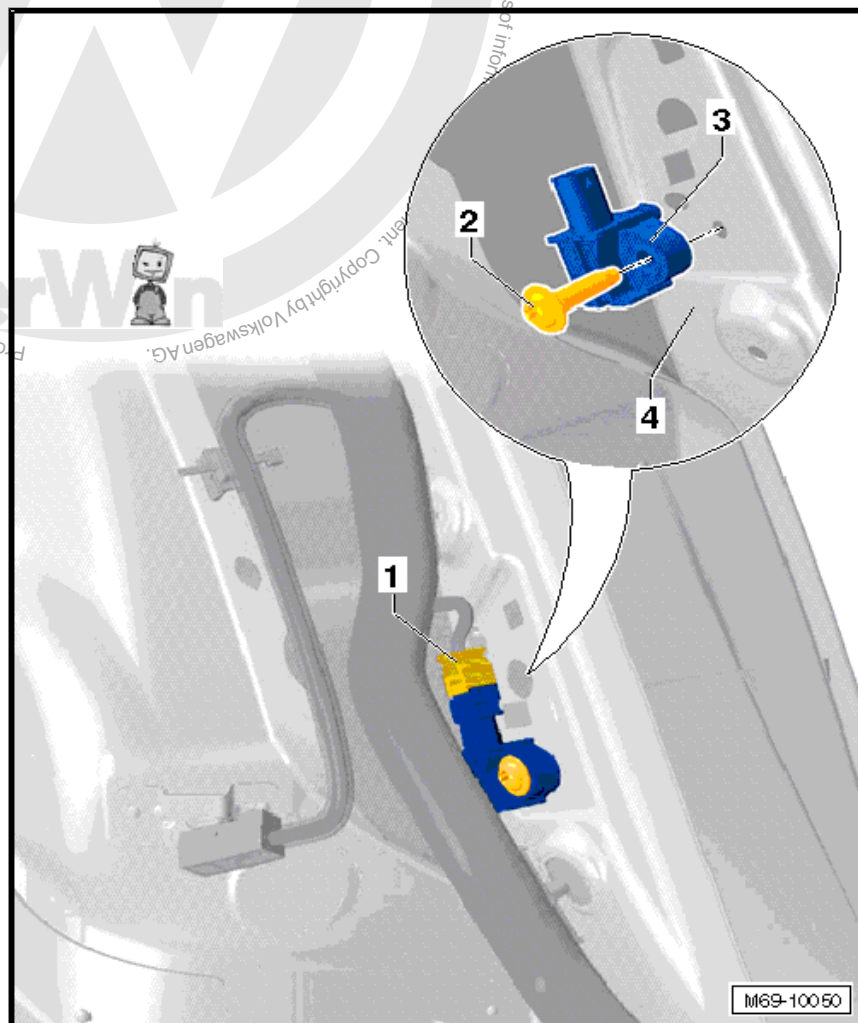
Installing



WARNING

- ◆ Follow safety regulations for pyrotechnic components
⇒ [page 1](#).
- ◆ Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.

- Connect connector -1- to crash sensor until it engages audibly.
- Press in connector lock to lock the connector.



Further installation is carried out in reverse order of removal. Observe the following:



 Note

- ◆ Ensure electrical connector is pushed fully onto stop and engages audibly.
- ◆ Ensure that no cables are trapped.



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .

 Note

If airbag warning lamp -K75- indicates a fault following installation, event memory must be read, deleted and read again ⇒ Vehicle diagnostic tester.

9.6 Removing and installing rear side-airbag crash sensor, front passenger side -G257-

 Note

The rear side airbag crash sensor on passenger side -G257- is located on inside of rear wheel housing.



WARNING

- ◆ Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .
- ◆ Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.

- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .

 Note

Removal and installation of the rear side-airbag crash sensor on passenger side -G257- is analogous to removal and installation of the side-airbag crash sensor on driver side -G256- ⇒ [page 110](#) .



10 Seat belt verification

⇒ [“10.1 Removing and installing seat occupied sensor, front passenger side G128”](#), page 114

⇒ [“10.2 Removing and installing seat occupied sensor, front passenger side G128 , as of model year 2012 ▶”](#), page 118

10.1 Removing and installing seat occupied sensor, front passenger side -G128-



WARNING

If the seat occupied sensor, front passenger side -G128- is renewed, the padding (front seat cushion) must also always be renewed!



Note

- ◆ *The seat occupied sensor, front passenger side -G128- is only installed in the front passenger seat.*
- ◆ *The seat occupied sensor for front passenger side -G128- has no influence on whether the passenger airbag is triggered in the event of an accident.*
- ◆ *The function of the front passenger seat occupied sensor -G128- is to remind passengers to wear their seat belt (seat belt command) by means of an optical and acoustic warning signal in the dash panel insert.*
- ◆ *On the front passenger side, therefore, corrective activation of the request to fasten seat belt is carried out via the sensor which also evaluates occupancy of the seat and insertion of the seat belt into buckle.*
- ◆ *On the driver side, only insertion of the seat belt into buckle is evaluated for corrective activation of the request to fasten the seat belt.*

Removing



WARNING

- ◆ *Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .*
- ◆ *Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must “electrically discharge” himself/herself. To do this e.g. briefly touch the door striker plate.*

- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .
- Mount seat repair stand -VAS 6136- on engine and gearbox support -VAS 6095- .
- Remove front seat ⇒ [page 244](#) .
- Fasten seat on seat repair stand -VAS 6136- .
- Remove right trim on seat ⇒ [page 257](#) .



Vehicles without height adjustment

- Remove left trim on seat without adjustable seat height
⇒ [page 250](#) .
- Remove front seat bar ⇒ [page 259](#) .

Vehicles with manually adjustable seat

- Remove left trim on seat with manually adjustable seat height
⇒ [page 252](#) .
- Remove front seat bar and operating lever ⇒ [page 259](#) .

Vehicles with electrically adjustable seat

- Remove left trim on seat with electric height adjuster
⇒ [page 254](#) .
- Remove seat bar of electrically adjustable seat ⇒ [page 260](#) .

All vehicles

- Remove mounting of front seat drawer ⇒ [page 258](#) .
- Remove front seat backrest ⇒ [page 263](#) .
- Removing front seat cushion cover and padding
⇒ [page 280](#) .



WARNING

The seat occupied sensor for front passenger side -G128- -1- is bonded firmly to the padding. Isolated removal and installation is not permissible; the sensor must always be renewed with the padding.





Installing



WARNING

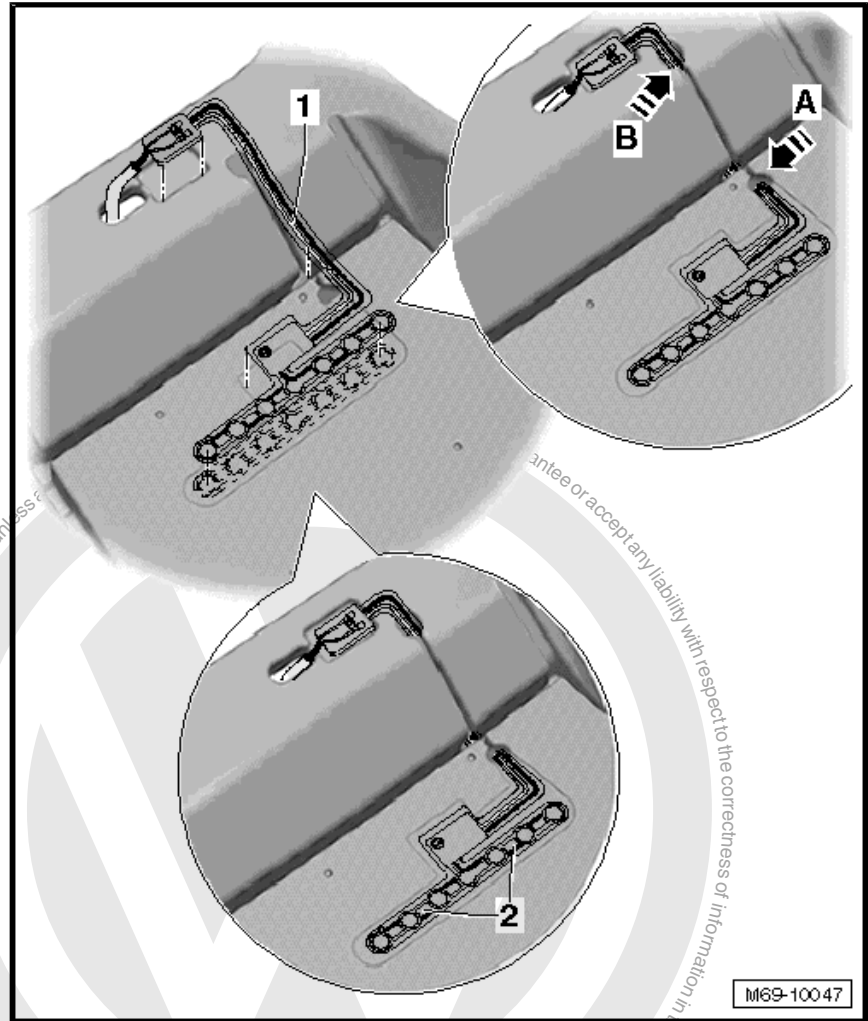
- ◆ Follow safety regulations for pyrotechnic components
⇒ [page 1](#) .
- ◆ Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.

- Push wiring harness -1- into rear conduit of padding.
- Push wiring harness in area of -arrows A and B- into the padding recess.
- Align sensor -2- in foam recess of padding.

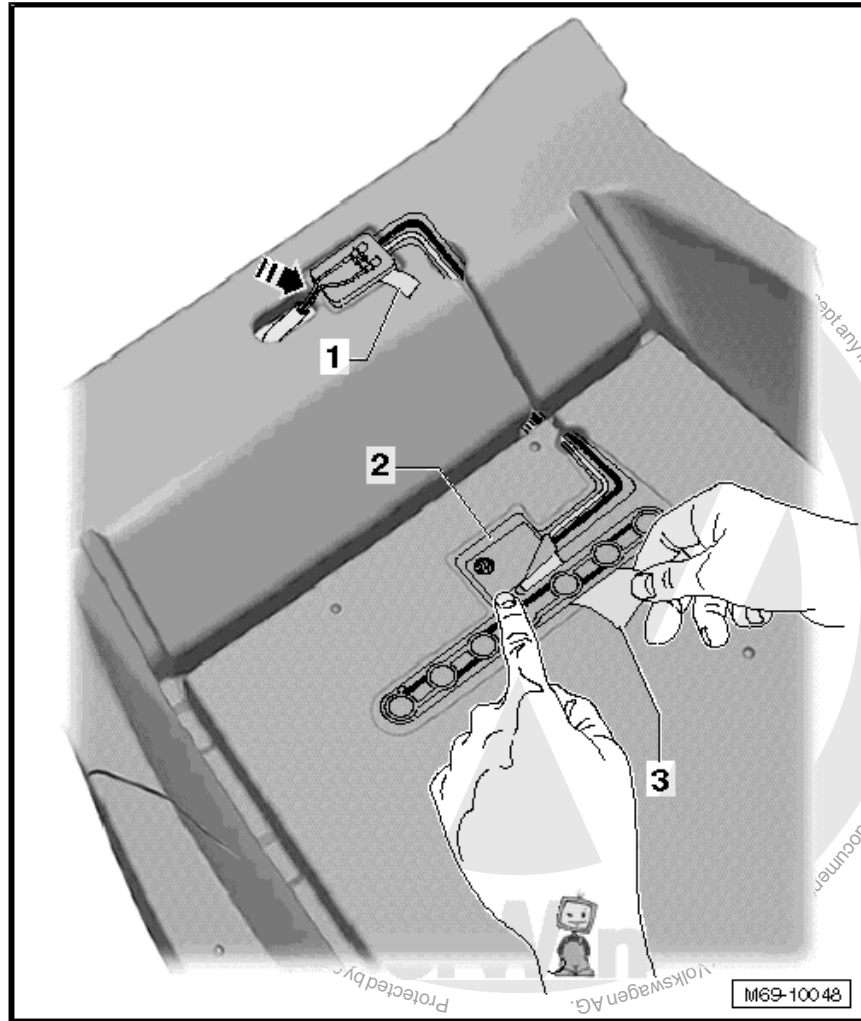


Caution

When do so, make sure that the clearance around the sensor -2- in the foam recess is constant.



- Hold the aligned sensor -2- in place with your right hand. Pull of adhesive strip -3- and glue sensor into foam recess.
- Pull off adhesive strip -1- and glue wiring harness into foam recess.
- Push wiring harness, at rear, into padding recess -arrow-.
- Connect wiring harness to onboard supply system.



Further installation is carried out in reverse order of removal. Observe the following:

- After installation, carry out a function check with ignition switched on.



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

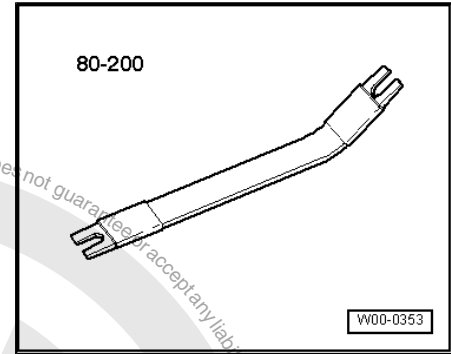
- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .

10.2 Removing and installing seat occupied sensor, front passenger side -G128- , as of model year 2012 ▶

Special tools and workshop equipment required



- ◆ Removal lever -80 - 200-



Note

- ◆ *The seat occupied sensor, front passenger side -G128- is only installed in the front passenger seat.*
- ◆ *The seat occupied sensor for front passenger side -G128- has no influence on whether the passenger airbag is triggered in the event of an accident.*
- ◆ *The function of the front passenger seat occupied sensor -G128- is to remind passengers to wear their seat belt (seat belt command) by means of an optical and acoustic warning signal in the dash panel insert.*
- ◆ *On the front passenger side, therefore, corrective activation of the request to fasten seat belt is carried out via the sensor which also evaluates occupancy of the seat and insertion of the seat belt into buckle.*
- ◆ *On the driver side, only insertion of the seat belt into buckle is evaluated for corrective activation of the request to fasten the seat belt.*
- ◆ *From model year 2012 the seat occupied sensor, front passenger side -G128- is no longer bonded to the front seat cushion, it is clipped into the seat frame instead.*

Removing



WARNING

- ◆ *Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .*
- ◆ *Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.*

- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .
- Mount seat repair stand -VAS 6136- on engine and gearbox support -VAS 6095- .
- Remove front seat ⇒ [page 244](#) .
- Fasten seat on seat repair stand -VAS 6136- .
- Remove right trim on seat ⇒ [page 257](#) .



Vehicles without height adjustment

- Remove left trim on seat without adjustable seat height
⇒ [page 250](#) .
- Remove front seat bar ⇒ [page 259](#) .

Vehicles with manually adjustable seat

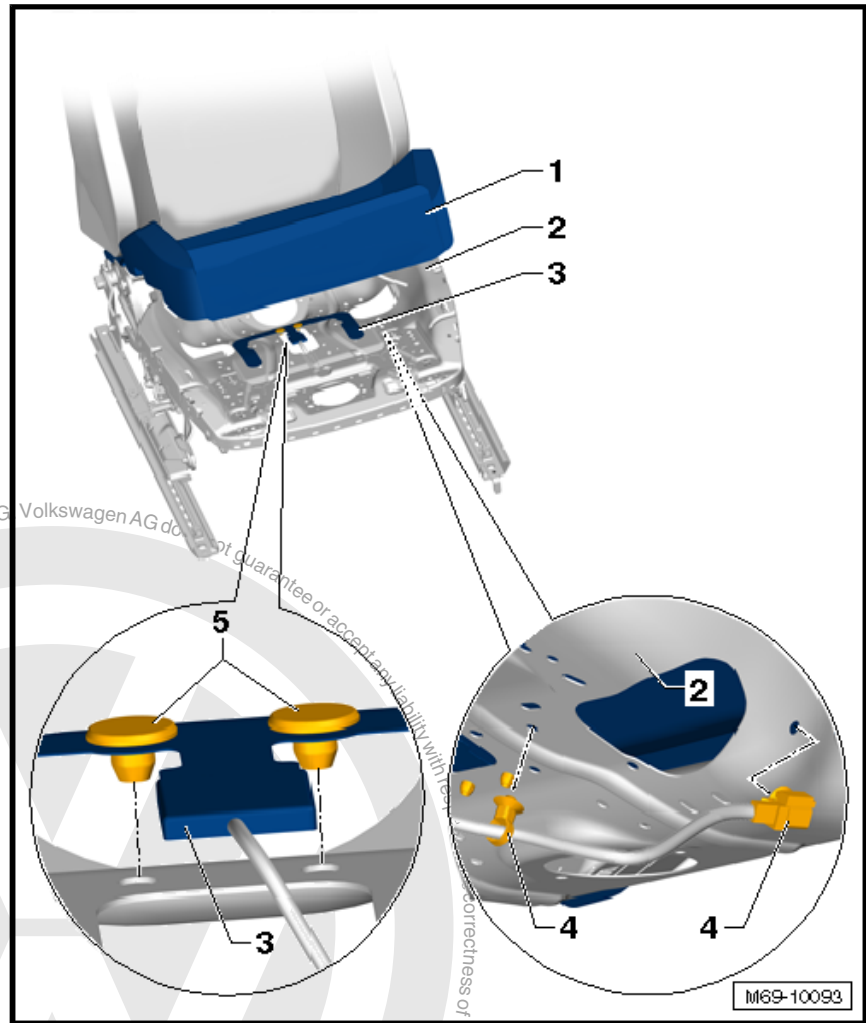
- Remove left trim on seat with manually adjustable seat height
⇒ [page 252](#) .
- Remove front seat bar and operating lever ⇒ [page 259](#) .

Vehicles with electrically adjustable seat

- Remove left trim on seat with electric height adjuster
⇒ [page 254](#) .
- Remove seat bar of electrically adjustable seat ⇒ [page 260](#) .

All vehicles

- Remove mounting of front seat drawer ⇒ [page 258](#) .
- Release front seat cushion cover all-round from seat frame
⇒ [page 280](#) .
- Fold up cover together with front seat cushion -1-.
- Unclip wiring harness -4- of seat occupied sensor, front passenger side -G128- from seat frame -2- and disconnect electrical connectors.
- Release clips -5- from seat frame -2- with the help of removal lever -80- 200- and remove seat occupied sensor, front passenger side -G128- -3-.



Installing



WARNING

- ◆ Follow safety regulations for pyrotechnic components
⇒ [page 1](#).
- ◆ Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.



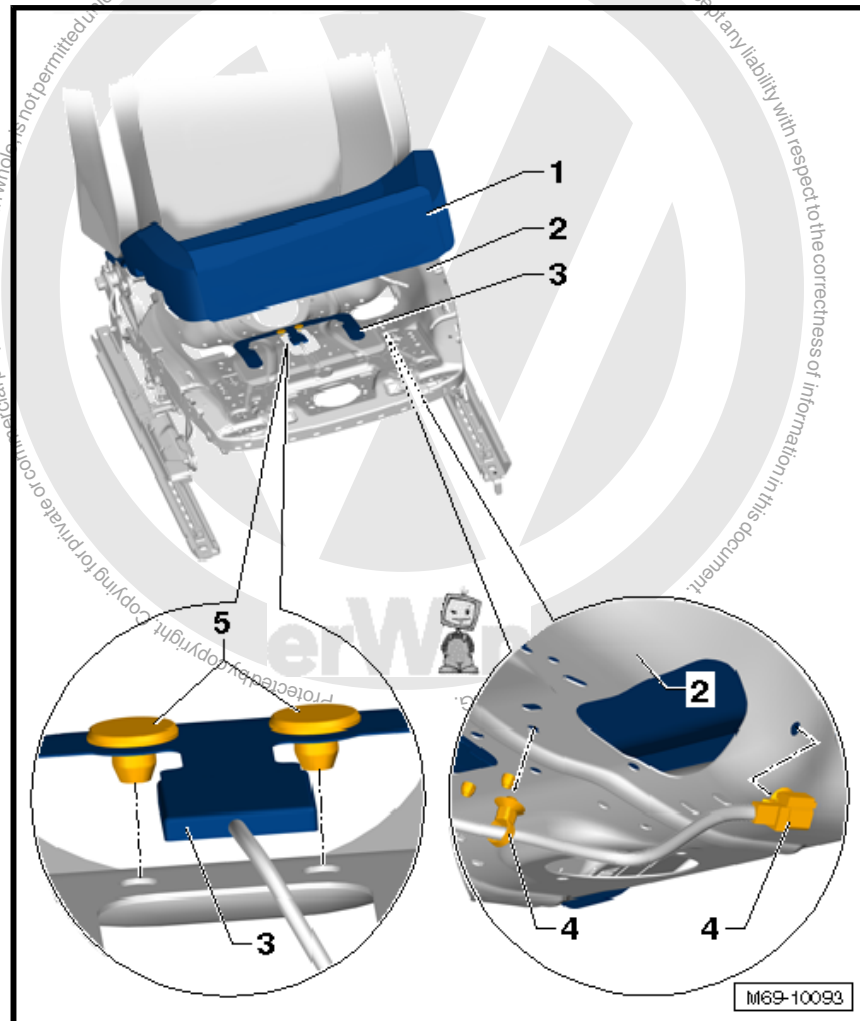
Caution

Install the new seat occupied sensor at the installation location of the old seat occupied sensor.

- Position seat occupied sensor, front passenger side -G128- -3- on seat frame -2- and press-in clips -5-.
- Route and reconnect wiring harness -4- of sensor -3- and clip into seat frame -2-.



- Place cover with front seat cushion -1- onto seat frame -2- and align.



Further installation is carried out in reverse order of removal.
Observe the following:

- After installation, carry out a function check with ignition switched on.



Note

- ◆ Ensure electrical connector is pushed fully onto stop and engages audibly.
- ◆ Before installing, check all fasteners for damage and renew if necessary.



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .





11 Seat occupied recognition (USA)

⇒ [“11.1 Safety precautions for when working on seat occupied recognition”, page 124](#)

⇒ [“11.2 Procedure after an accident when belt tensioner and/or airbag was triggered”, page 124](#)

⇒ [“11.3 Assembly overview - front seat Basic”, page 125](#)

⇒ [“11.4 Assembly overview - front seat Comfort”, page 127](#)

⇒ [“11.5 Assembly overview - front seat Sport”, page 128](#)

⇒ [“11.6 Removing and installing pressure sensor for seat occupied recognition G452”, page 130](#)

⇒ [“11.7 Removing and installing seat occupied recognition control unit J706”, page 139](#)

⇒ [“11.8 Removing and installing bracket of seat occupied recognition control unit J706”, page 141](#)

⇒ [“11.9 Importers reporting obligation”, page 142](#)

11.1 Safety precautions for when working on seat occupied recognition

- ◆ The seat occupied recognition control unit -J706- must always be reset after the front passenger seat has been repaired, for example when the seat cover has been “replaced”. The reset is to be carried out with the vehicle diagnosis, testing and information system -VAS 5051B- .
- ◆ Take care that the pressure sensor for seat occupied recognition -G452- does not become kinked.
- ◆ The components of the seat recognition must not come into contact with grease.
- ◆ There is always a danger that the components of the seat recognition may be damaged by pointed/sharp objects when working on the seat. This danger must be prevented.
- ◆ The pressure sensor for seat occupied recognition -G452- must be positioned without creasing.
- ◆ During installation, care must be taken to install seat padding and seat cover in correct position.
- ◆ If there is a seat heating element, it must always be installed under the pressure sensor for seat occupied recognition - G452- .
- ◆ Renew all padding clips of the cover. Ensure clips are correctly positioned on seat padding.
- ◆ The basic setting of the system is only possible between temperatures of 0°C and +40°C.
- ◆ Ensure that no object is on the seat before and/or during the basic settings.
- ◆ The use of additional items on the seat, such as cushions or similar, impairs the functioning of the seat occupied recognition system and can therefore prevent the airbag system from functioning correctly.

11.2 Procedure after an accident when belt tensioner and/or airbag was triggered

- ◆ The seat occupied recognition control unit -J706- must always be reset if the front passenger airbag and/or seat belt tensioner on front passenger side has been triggered. The reset is to be



carried out with the vehicle diagnosis and service information system -VAS 5052 A- .

- ◆ If the seat rail and/or seat pan are renewed after an accident due to deformation, the pressure sensor for seat occupied recognition -G452- must be renewed. Finally carry out basic settings of seat occupied recognition control unit -J706- . The reset is to be carried out with the vehicle diagnosis and service information system -VAS 5052 A-

11.3 Assembly overview - front seat "Basic"

Note

- ◆ The pressure sensor for seat occupied recognition -G452- controls automatic deactivation of the passenger side airbag if the front passenger seat is not occupied.
- ◆ This version of the feature is only installed in models which were registered for the first time in the USA.
- ◆ There are different sensor versions for the different types of front seat equipment ("Basic", "Comfort", "Sport").

1 - Wiring harness

- Wiring harness with connector for pressure sensor for seat occupied recognition -G452-
- Make sure that wiring is laid correctly
 ⇒ [page 130](#)

2 - Front seat padding

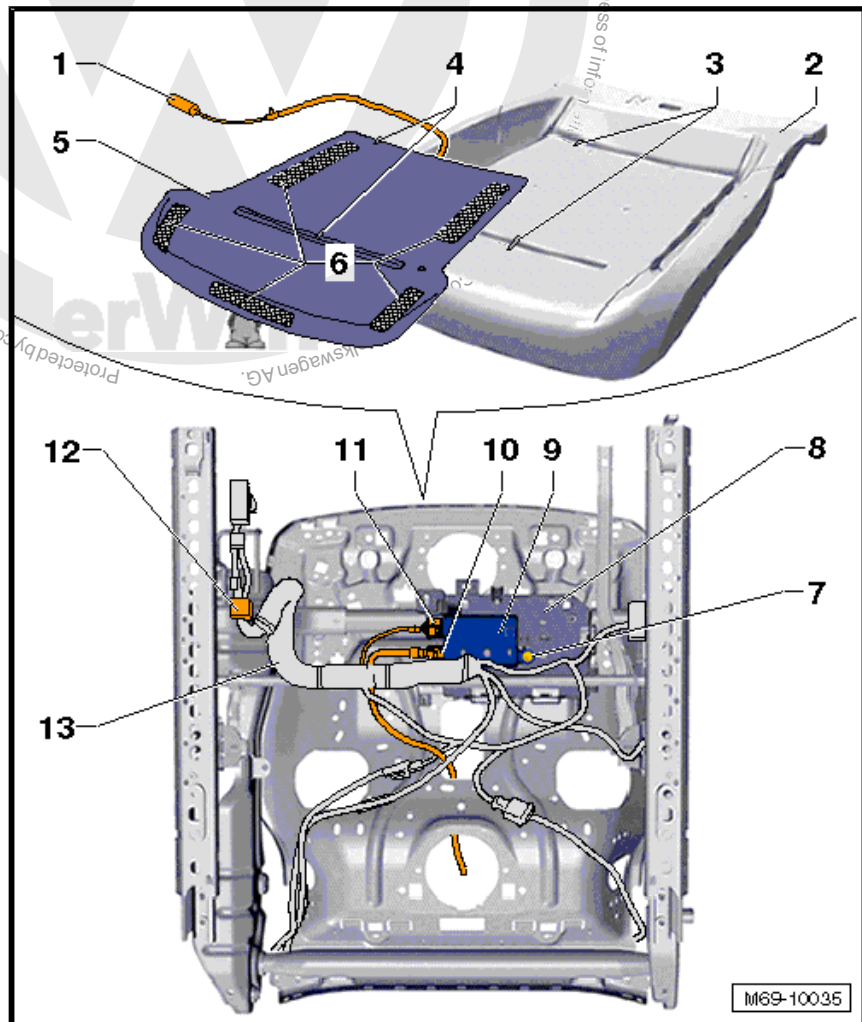
- Do not separate from pressure sensor for seat occupied recognition -G452- .
- If the components are separated from each other, they are both to be renewed.
- However, the seat occupied recognition control unit -J706- does not have to be renewed

3 - Positioning aids

- Positioning aides on padding of front seat cushion
- Before gluing, positioning aids must be aligned with the positioning aids of the pressure sensor for seat occupied recognition -G452-
 ⇒ [Item 4 \(page 125\)](#) .

4 - Positioning aids

- Positioning aids on pressure sensor for seat occupied recognition -G452-





- Before gluing, positioning aids must be aligned with the positioning aids of the front seat cushion padding
⇒ [Item 3 \(page 125\)](#) .

5 - Pressure sensor for seat occupied recognition -G452-

- Do not separate from front seat cushion padding
- If the components are separated from each other, they are both to be renewed.
- In vehicles with seat heater, the heating element is also to be renewed.
- However, the seat occupied recognition control unit -J706- does not have to be renewed
- Removing and installing ⇒ [page 130](#)

6 - Adhesive surfaces

- Adhesive surfaces for gluing to front seat cushion padding
- First, remove protective film immediately before gluing

7 - Bolt

- Bolt for seat occupied recognition control unit -J706-
- 1.5 Nm

8 - Bracket

- Bracket of seat occupied recognition control unit -J706-
- Clipped onto seat frame
- Removing and installing ⇒ [page 141](#) .

9 - Seat occupied recognition control unit -J706-

- Can be diagnosed
- The necessity for replacement of the seat occupied recognition control unit -J706- does not mean that the pressure sensor for seat occupied recognition -G452- has to be replaced as well.
- Removing and installing ⇒ [page 139](#) .

10 - Connector

- Connector for connecting pressure sensor for seat occupied recognition -G452- to seat occupied recognition control unit -J706- .
- Make sure that wiring is laid correctly ⇒ [page 130](#)

11 - Connector

- Power supply connector for seat occupied recognition control unit -J706-

12 - Connector

- Point where seat occupied recognition electronics are coupled to onboard supply

13 - Wiring harness for front seat



11.4 Assembly overview - front seat "Comfort"

1 - Wiring harness

- Wiring harness with connector for pressure sensor for seat occupied recognition -G452-
- Make sure that wiring is laid correctly
 ⇒ [page 130](#)

2 - Front seat padding

- Do not separate from pressure sensor for seat occupied recognition -G452- .
- If the components are separated from each other, they are both to be renewed.
- However, the seat occupied recognition control unit -J706- does not have to be renewed

3 - Positioning aids

- Positioning aids on pressure sensor for seat occupied recognition -G452-
- Before gluing, positioning aids must be aligned with the positioning aids of the front seat cushion padding
 ⇒ [Item 5 \(page 127\)](#) .

4 - Pressure sensor for seat occupied recognition -G452-

- Do not separate from front seat cushion padding
- If the components are separated from each other, they are both to be renewed.
- In vehicles with seat heater, the heating element is also to be renewed.
- However, the seat occupied recognition control unit -J706- does not have to be renewed
- Removing and installing ⇒ [page 130](#)

5 - Positioning aids

- Positioning aides on padding of front seat cushion
- Before gluing, positioning aids must be aligned with the positioning aids of the pressure sensor for seat occupied recognition -G452- ⇒ [Item 3 \(page 127\)](#)

6 - Adhesive surfaces

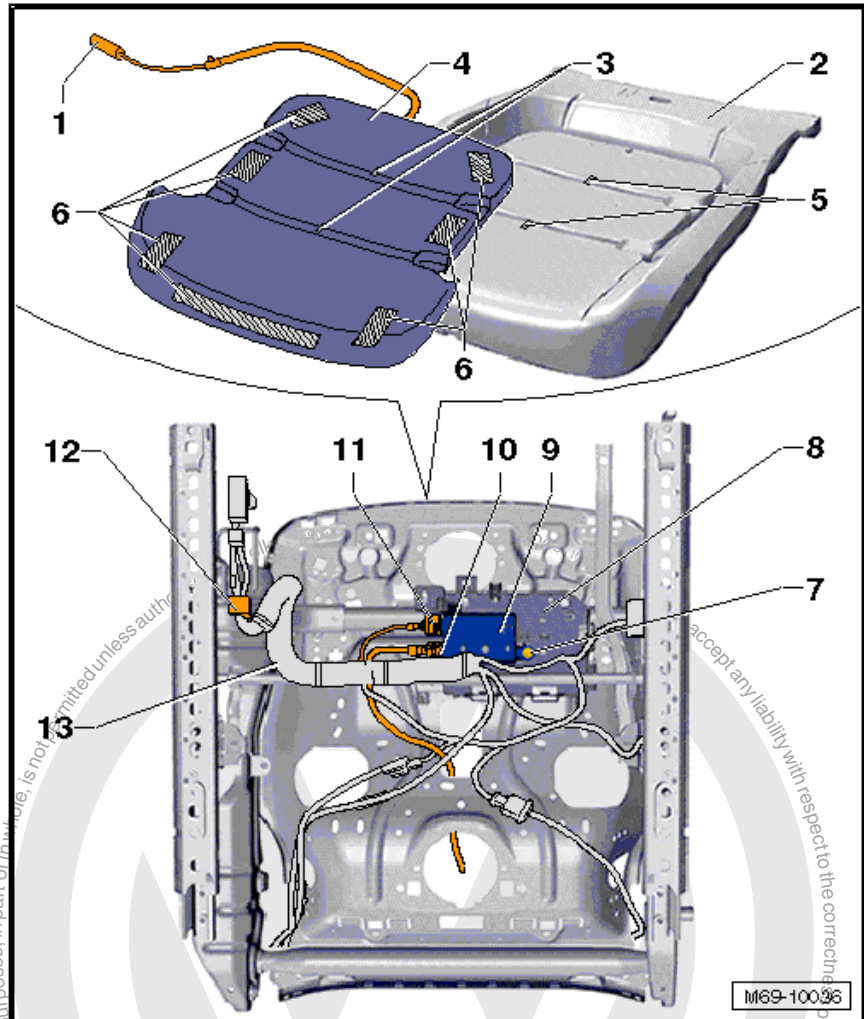
- Adhesive surfaces for gluing to front seat cushion padding
- First, remove protective film immediately before gluing

7 - Bolt

- Bolt for seat occupied recognition control unit -J706-
- 1.5 Nm

8 - Bracket

- Bracket of seat occupied recognition control unit -J706-



M69-10036



- Clipped onto seat frame
- Removing and installing ⇒ [page 141](#) .

9 - Seat occupied recognition control unit -J706-

- Can be diagnosed
- The necessity for replacement of the seat occupied recognition control unit -J706- does not mean that the pressure sensor for seat occupied recognition -G452- has to be replaced as well.
- Removing and installing ⇒ [page 139](#) .

10 - Connector

- Connector for connecting pressure sensor for seat occupied recognition -G452- to seat occupied recognition control unit -J706- .
- Make sure that wiring is laid correctly ⇒ [page 130](#) .

11 - Connector

- Power supply connector for seat occupied recognition control unit -J706-

12 - Connector

- Point where seat occupied recognition electronics are coupled to onboard supply

13 - Wiring harness for front seat

11.5 Assembly overview - front seat "Sport"

1 - Wiring harness

- Wiring harness with connector for pressure sensor for seat occupied recognition -G452-
- Make sure that wiring is laid correctly ⇒ [page 130](#) .

2 - Front seat padding

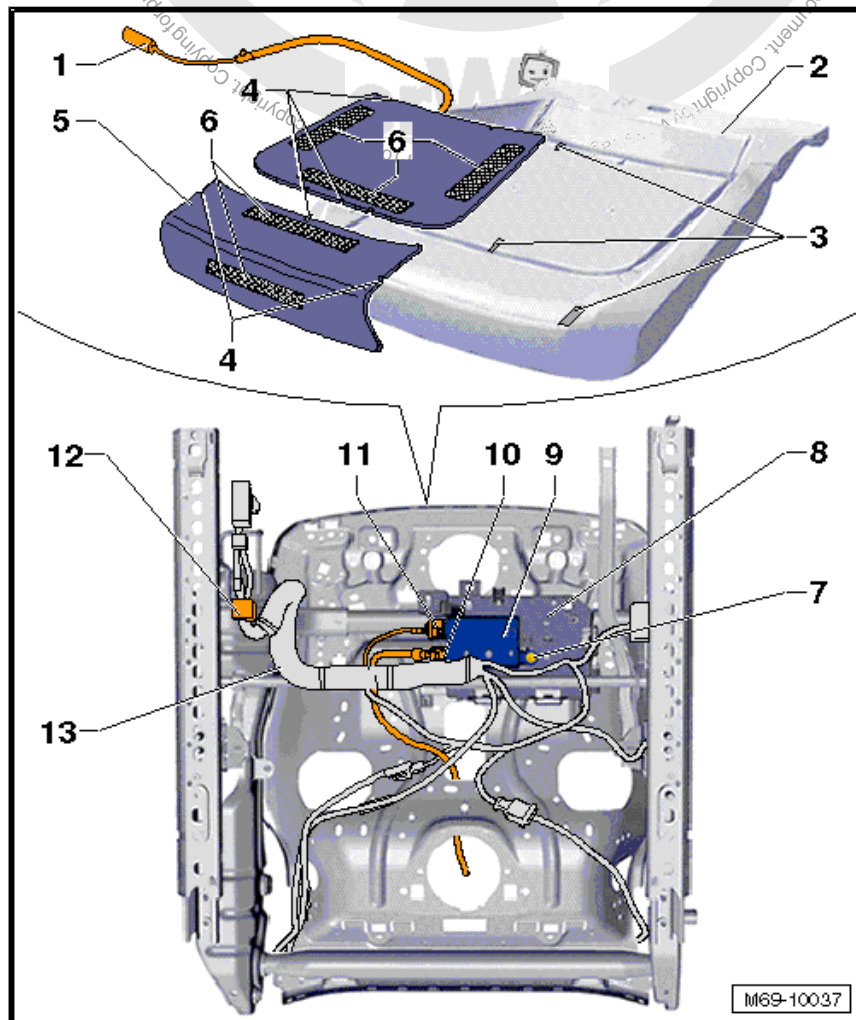
- Do not separate from pressure sensor for seat occupied recognition -G452- .
- If the components are separated from each other, they are both to be renewed.
- However, the seat occupied recognition control unit -J706- does not have to be renewed

3 - Positioning aids

- Positioning aides on padding of front seat cushion
- Before gluing, positioning aids must be aligned with the positioning aids of the pressure sensor for seat occupied recognition -G452- ⇒ [Item 4 \(page 128\)](#) .

4 - Positioning aids

- Positioning aids on pressure sensor for seat





- occupied recognition -
G452-
- Before gluing, positioning aids must be aligned with the positioning aids of the front seat cushion padding
⇒ [Item 3 \(page 128\)](#) .
- 5 - Pressure sensor for seat occupied recognition -G452-**
- Do not separate from front seat cushion padding
 - If the components are separated from each other, they are both to be renewed.
 - In vehicles with seat heater, the heating element is also to be renewed.
 - However, the seat occupied recognition control unit -J706- does not have to be renewed
 - Before installation, the front sensor section must be separated at the perforation; there are no sensors in this area.
 - Removing and installing ⇒ [page 130](#)
- 6 - Adhesive surfaces**
- Adhesive surfaces for gluing to front seat cushion padding
 - First, remove protective film immediately before gluing
- 7 - Bolt**
- Bolt for seat occupied recognition control unit -J706-
 - 1.5 Nm
- 8 - Bracket**
- Bracket of seat occupied recognition control unit -J706-
 - Clipped onto seat frame
 - Removing and installing ⇒ [page 141](#) .
- 9 - Seat occupied recognition control unit -J706-**
- Can be diagnosed
 - The necessity for replacement of the seat occupied recognition control unit -J706- does not mean that the pressure sensor for seat occupied recognition -G452- has to be replaced as well.
 - Removing and installing ⇒ [page 139](#) .
- 10 - Connector**
- Connector for connecting pressure sensor for seat occupied recognition -G452- to seat occupied recognition control unit -J706- .
 - Make sure that wiring is laid correctly ⇒ [page 130](#)
- 11 - Connector**
- Power supply connector for seat occupied recognition control unit -J706-
- 12 - Connector**
- Point where seat occupied recognition electronics are coupled to onboard supply
- 13 - Wiring harness for front seat**



11.6 Removing and installing pressure sensor for seat occupied recognition -G452-



Note

- ◆ *It is only permissible to renew pressure sensor for seat occupied recognition -G452- and front seat padding together as a unit.*
- ◆ *However, the seat occupied recognition control unit -J706- can be replaced separately.*
- ◆ *The pressure sensor for seat occupied recognition -G452- is removed/installed as shown in the example of the "Comfort" version of the front seat with manual seat adjustment.*
- ◆ *Removal and installation of the other front seat versions are analogous.*

Removing



WARNING

- ◆ *Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .*
- ◆ *Before handling pyrotechnic components (e.g. separating the electrical connector); the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.*

- Mount seat repair stand -VAS 6136- on engine and gearbox support -VAS 6095- .
- Remove front seat ⇒ [page 244](#) .
- Fasten seat on seat repair stand -VAS 6136- .
- Remove right trim on seat ⇒ [page 257](#) .

Vehicles with manually adjustable seat

- Remove left trim on seat:
- ◆ Left trim on seat without adjustable seat height ⇒ [page 250](#) .
- ◆ Left trim on seat with manually adjustable seat height ⇒ [page 252](#) .
- Remove front seat bar and operating lever ⇒ [page 259](#) .

Vehicles with electrically adjustable seat

- Left trim on seat with electrically adjustable seat height ⇒ [page 254](#) .
- Remove seat bar of electrically adjustable seat ⇒ [page 260](#) .

All vehicles

- Remove mounting of front seat drawer if there is one ⇒ [page 258](#) .
- Remove front seat backrest -1- ⇒ [page 263](#) .
- Remove cover from front seat cushion (front seat padding is not removed) ⇒ [page 280](#) .
- Detach seat heating element connector for front seat cushion if a seat heating element exists



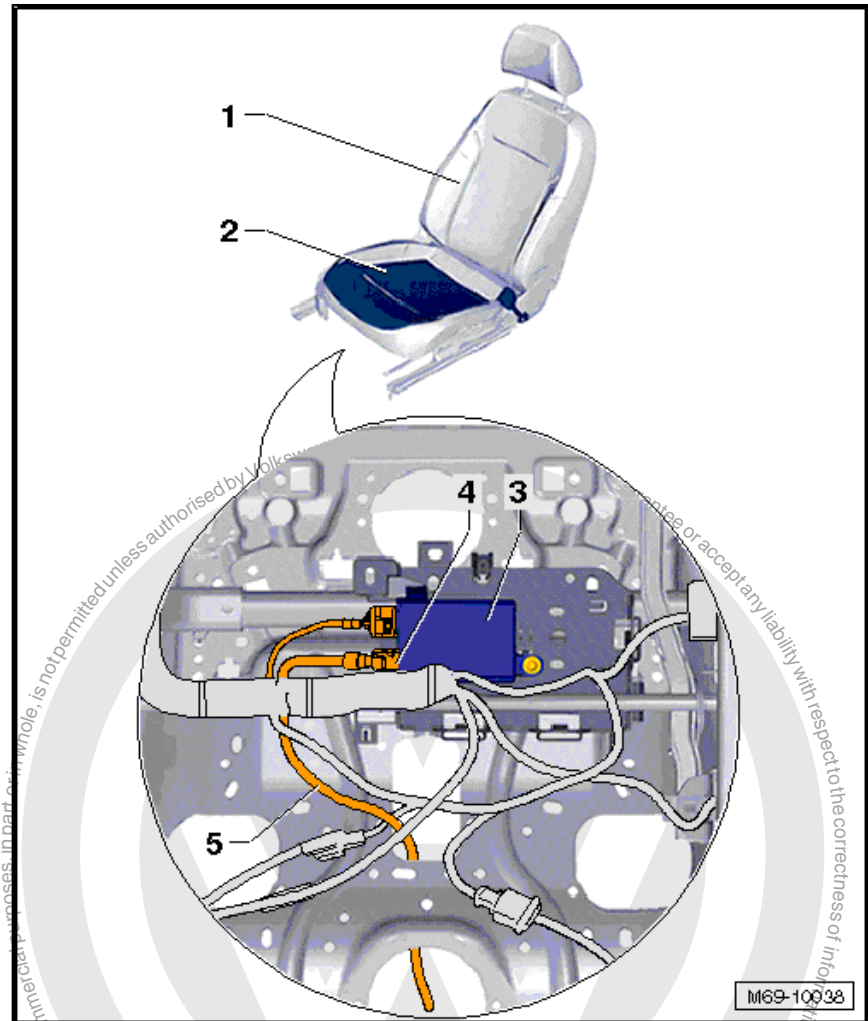
- Disconnect connector -4- for pressure sensor -2- from seat occupied recognition control unit -J706- -3-.
- Disconnect wiring harness -5- for pressure sensor from seat frame.
- Remove seat padding together with pressure sensor for seat occupied recognition -G452- -2- from seat frame.



WARNING

The pressure sensor for seat occupied recognition -G452- -1- is bonded permanently to seat padding -2-. Isolated removal and installation is not permissible; the pressure sensor must always be renewed together with the seat padding.

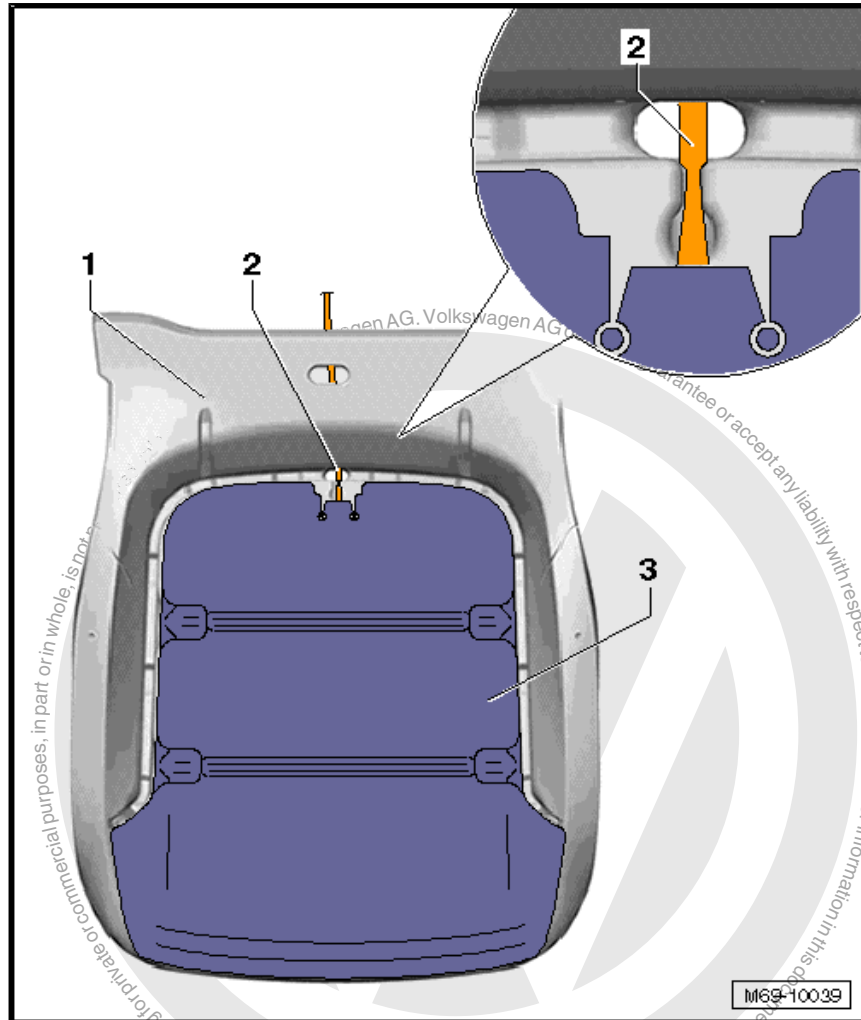
If there is a seat heating element, it must also be renewed. Separate removal/installation is not permissible.



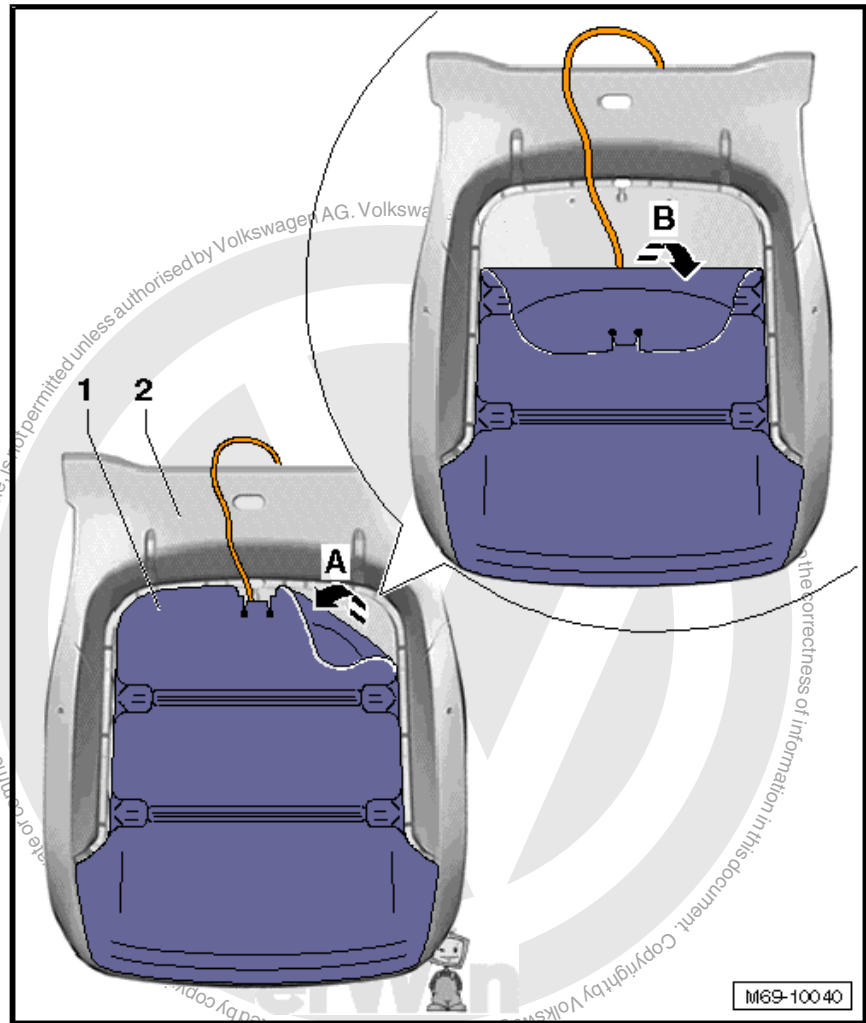


Note

- ◆ *Removed components are to be separated from each other and disposed of separately from each other so that they are not accidentally re-installed.*
- ◆ *The further procedure only applies to this.*
- Remove wiring harness -2- of sensor -3- from anchoring channel and thread out through seat padding -1-.



- Detach pressure sensor for seat occupied recognition -G452-
-1- from seat padding -2- in -direction of arrow B-, beginning
in -direction of arrow A-.
- Remove pressure sensor for seat occupied recognition -G452-
-1- from seat padding -2-.



Installing



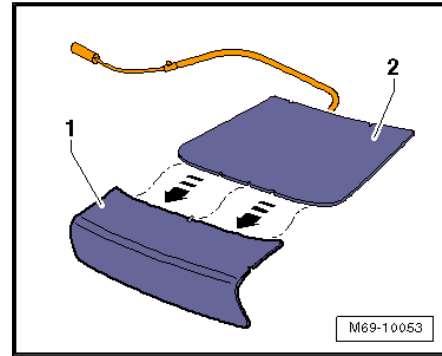
WARNING

- ◆ *Follow safety regulations for pyrotechnic components
⇒ [page 1](#).*
- ◆ *Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.*



i Note

- ◆ The pressure sensor for seat occupied recognition -G452- must be positioned without kinks.
- ◆ After seat occupied recognition has been renewed, vehicle diagnosis, testing and information system -VAS 5051B- must be used in "Guided fault finding" mode to initiate basic setting of occupant classification system ⇒ [page 78](#) .
- ◆ In vehicles with seat heater, it must be ensured that the heating element is always installed under the pressure sensor for seat occupied recognition -G452- . If this is not done, serious functional impairments of the pressure sensor will occur.
- ◆ In the case of the "Sport" version, the front sensor section -1- must be separated from sensor section -2- at the perforation before installation. There are no sensors in this sensor section -1-.

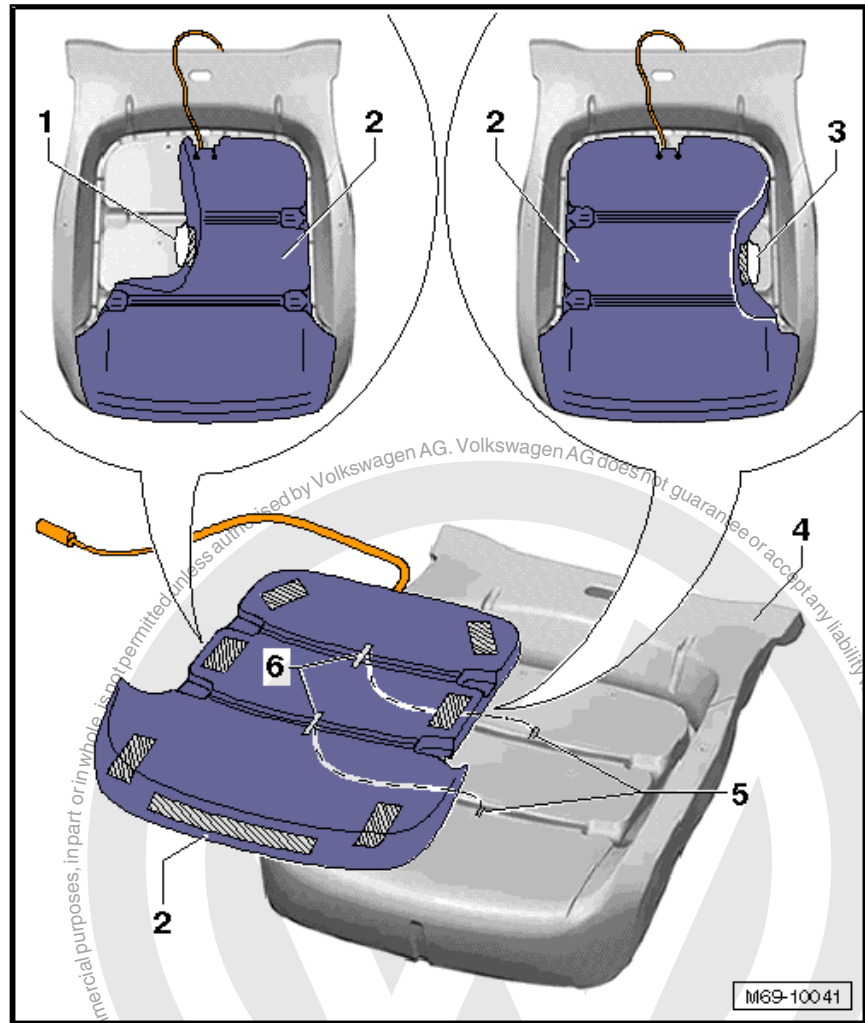


WARNING

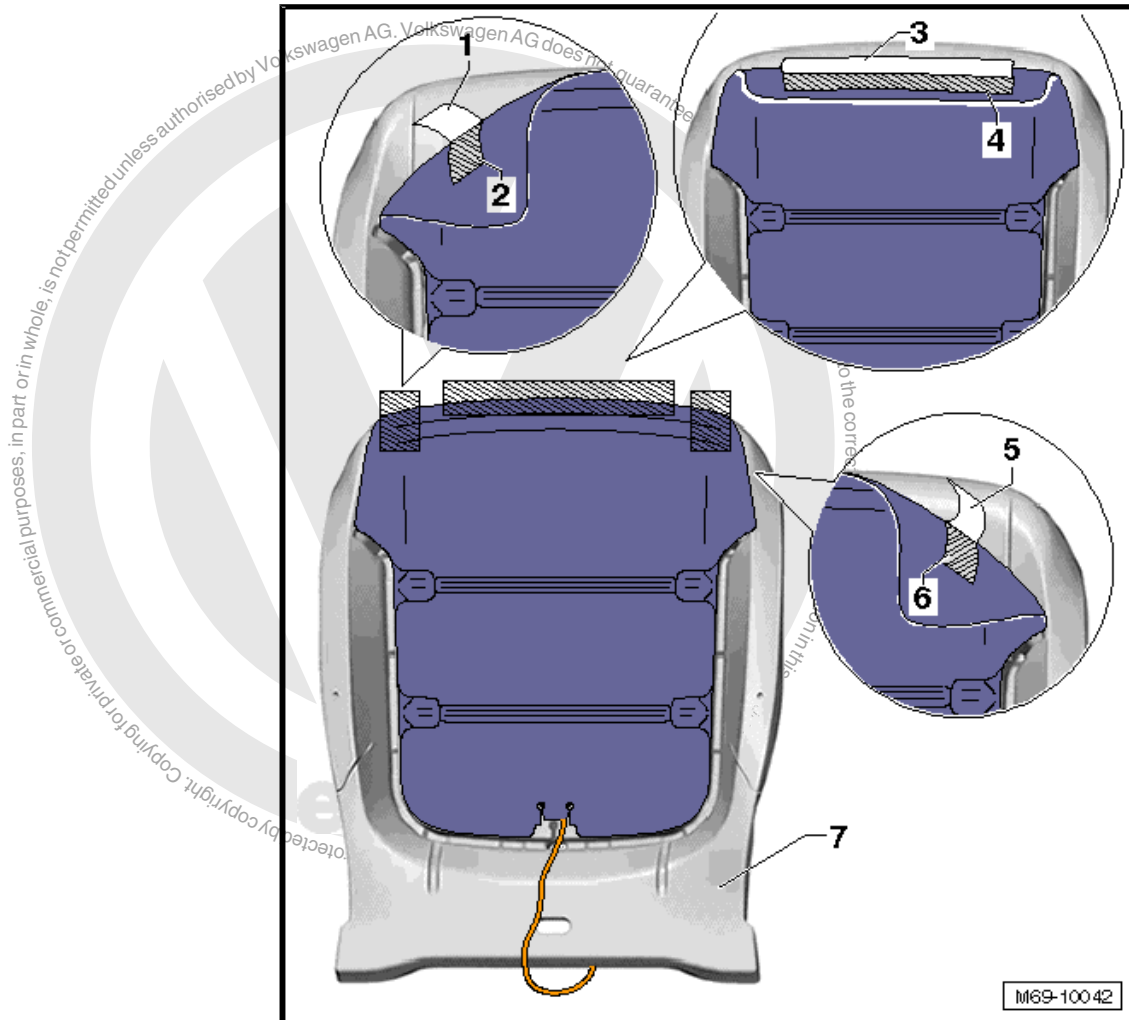
Resetting must be carried out with seat unoccupied.

- Place pressure sensor for seat occupied recognition -G452- -2- onto seat padding -4-.
- Arrange pressure sensor -2- on seat padding -4- until positioning aids -5- and -6- are aligned with each other.
- Remove protective film -1- of middle position adhesive and affix pressure sensor -2-, applying slight pressure and avoiding kinks.
- Remove protective film -3- of middle position adhesive and affix pressure sensor -2-, applying slight pressure and avoiding kinks.

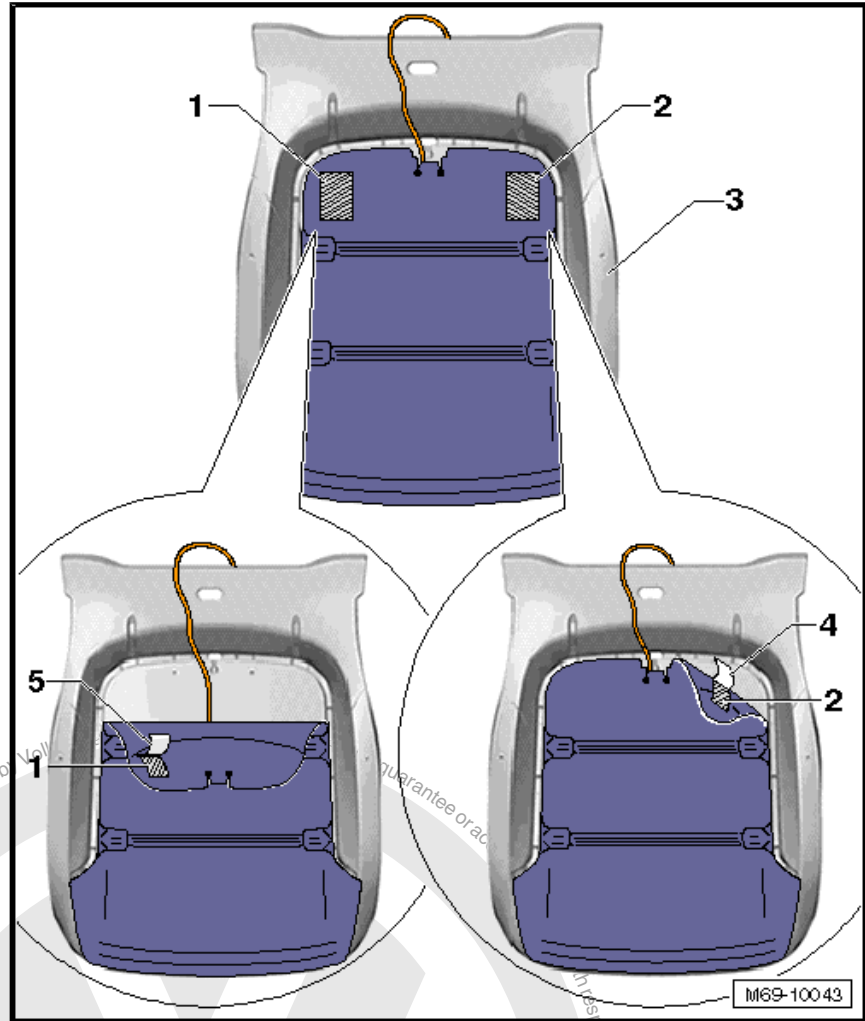




- Lightly press pressure sensor into front "channel transitions", while aligning it to the seat padding.
- Remove protective film -1- of front side position adhesive -2- and affix pressure sensor, applying slight pressure and avoiding kinks.
- Remove protective film -5- of front side position adhesive -6- and affix pressure sensor, applying slight pressure and avoiding kinks.
- Remove protective film -3- of front middle position adhesive -4- and affix pressure sensor, applying slight pressure and avoiding kinks.



- Lightly press pressure sensor into rear “channel transitions”, while aligning it to the seat padding.
- Remove protective film -5- of rear side position adhesive -1- and affix pressure sensor, applying slight pressure and avoiding kinks.
- Remove protective film -4- of rear side position adhesive -2- and affix pressure sensor, applying slight pressure and avoiding kinks.

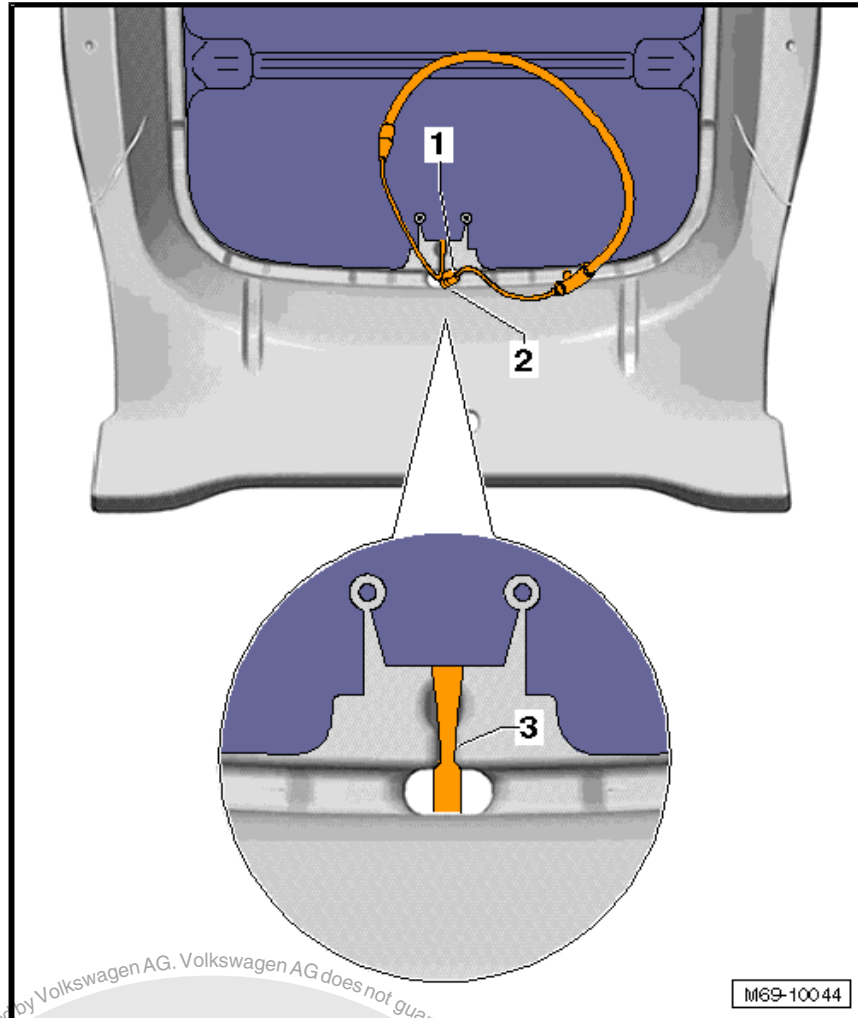


- Feed wiring harness -1- through opening in seat padding -2- and attach it in anchoring channel -3-.



Note

It must be ensured that the entire wiring harness -1- is routed straight through the seat padding -2- and that there are no cable loops in the anchoring channel -3- after installation.



- Attach wiring harness of pressure sensor -4- to seat frame -3- and fix in place as shown.



- Connect connector -1- of wiring harness -4- to seat occupied recognition control unit -J706- -2-.



Note

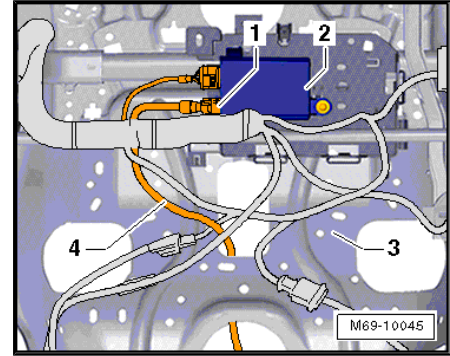
Ensure electrical connector is pushed fully onto stop and engages audibly.

Further assembly is performed in reverse order of removal.



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.



- Connect battery earth cable with ignition switched on => Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .

11.7 Removing and installing seat occupied recognition control unit -J706-



WARNING

- ◆ Follow safety regulations for pyrotechnic components => [page 1](#) .
- ◆ Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.

Removing

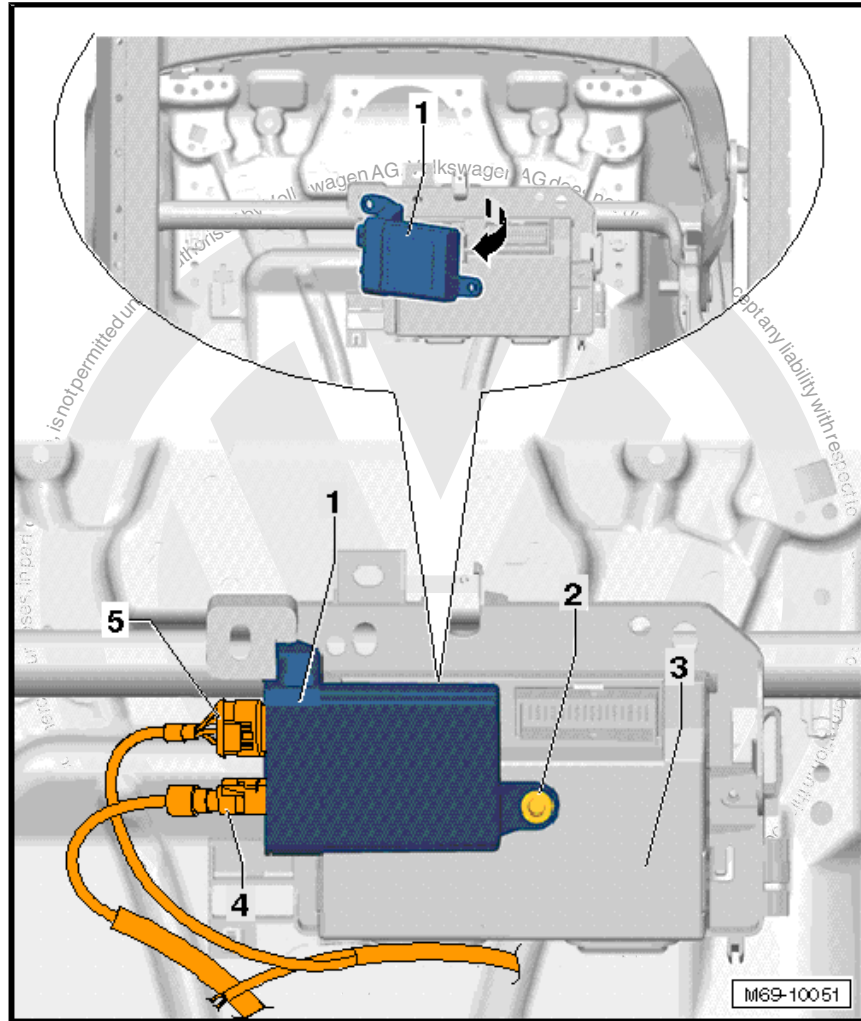
- Mount seat repair stand -VAS 6136- on engine and gearbox support -VAS 6095- .

Vehicles with adjustable seat height

- Position seat in uppermost position.

All vehicles

- Remove front seat => [page 244](#) .
- Fasten seat on seat repair stand -VAS 6136- .
- Detach connectors -4- and -5- from seat occupied recognition control unit -J706- -1-.
- Remove bolt -2- (1.5 Nm).
- Remove seat occupied recognition control unit -J706- -1- from bracket -3- in -direction of arrow-.



Installing



WARNING

- ◆ Follow safety regulations for pyrotechnic components ⇒ [page 1](#) .
- ◆ Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.

Install in reverse order, but note the following:



Note

- ◆ Ensure electrical connector is pushed fully onto stop and engages audibly.
- ◆ If the seat occupied recognition control unit -J706- has been replaced, a reset/coding must be carried out with the vehicle diagnosis, testing and information system -VAS 5051B- in "Guided fault finding" ⇒ [page 78](#) .



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .

11.8 Removing and installing bracket of seat occupied recognition control unit -J706-

Removing

- Mount seat repair stand -VAS 6136- on engine and gearbox support -VAS 6095- .

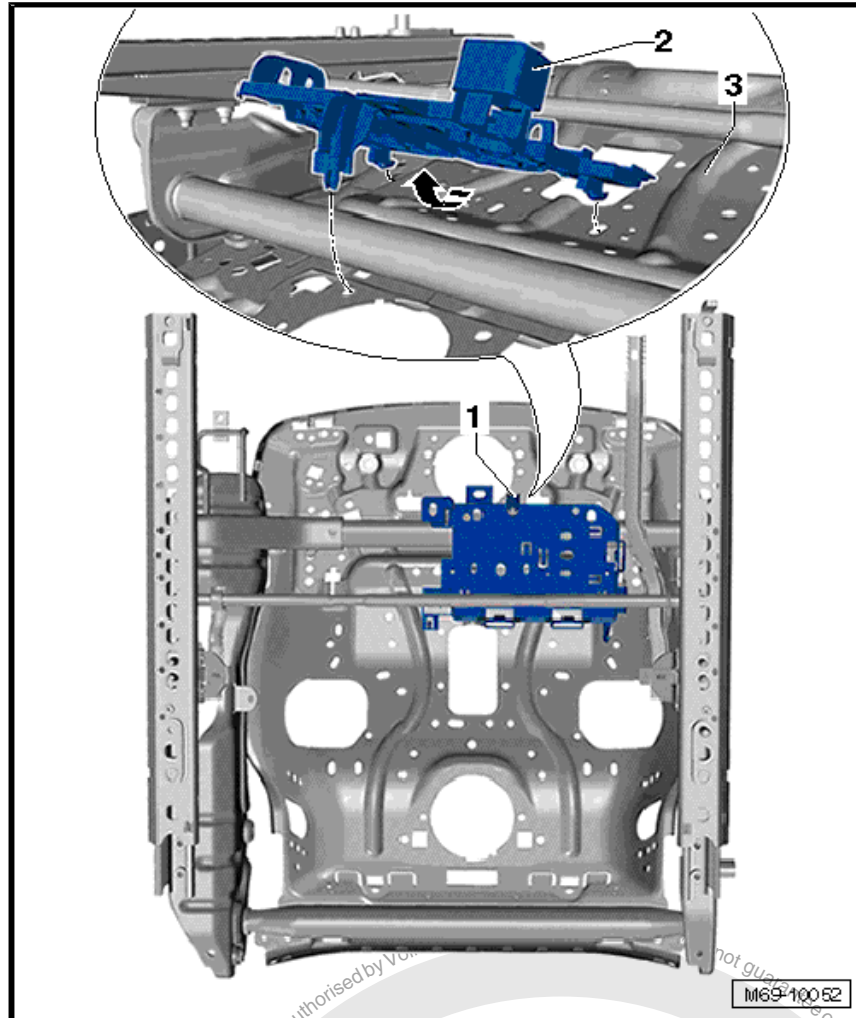
Vehicles with adjustable seat height

- Position seat in uppermost position.

All vehicles

- Remove front seat ⇒ [page 244](#) .
- Fasten seat on seat repair stand -VAS 6136- .
- Remove seat occupied recognition control unit -J706- ⇒ [page 139](#) .
- Release catch -1-.
- Remove bracket -2- from seat frame -3- in -direction of arrow-.





Installing

- Install in reverse order of removal.

11.9 Importers reporting obligation

Following the installation of new components of the seat occupied recognition system (pressure sensor for seat occupied recognition -G452- / seat occupied recognition control unit -J706-), the labels (only tear-off strips) of the new components must be stuck onto the "Registration note 2 for Airbag Systems". For registration, the "Registry note 2 for Airbag Systems" must be sent on to the importer.

The "Registry note 2 for Airbag Systems" can be printed out of the "Technical Service Handbook":

ElsaWin

- Technical service handbook
- Technical product information
- Vehicle electrics
- Function
- Passenger protection



- Deactivation of airbag units/child seat, seat installation etc.
- Appendix 2

In the "Technical Service Handbook 2", the "Process ID" or the "technical solution number" for this procedure is "202232711".





70 – Trim, insulation

1 Door trims

⇒ [“1.2 Removing and installing driver door trim”, page 145](#)

⇒ [“1.3 Removing and installing front passenger door trim”, page 149](#)

⇒ [“1.4 Removing and installing front door trim bracket”, page 153](#)

⇒ [“1.5 Removing and installing rear door trim”, page 155](#)

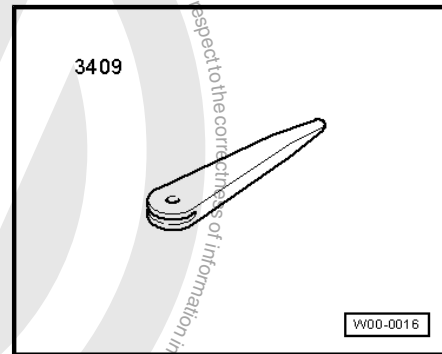
⇒ [“1.6 Removing and installing rear door trim bracket”, page 159](#)

⇒ [“1.7 Removing and installing front inner mirror cover”, page 161](#)

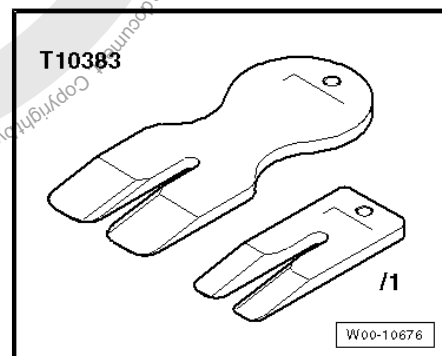
1.1 Tools

Special tools and workshop equipment required

◆ Removal wedge -3409-

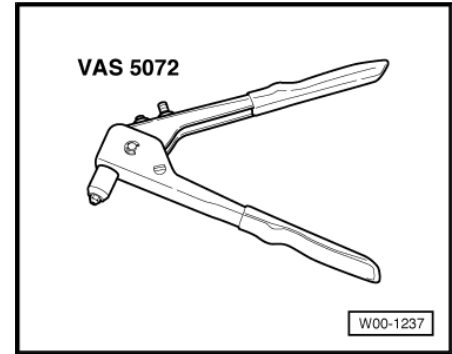


◆ Wedges -T10383-

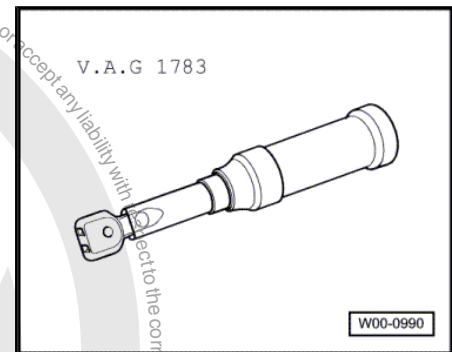




- ◆ Pop rivet pliers -VAS 5072-



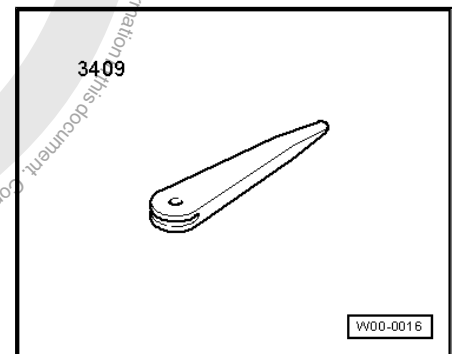
- ◆ Torque wrench -V.A.G 1783-



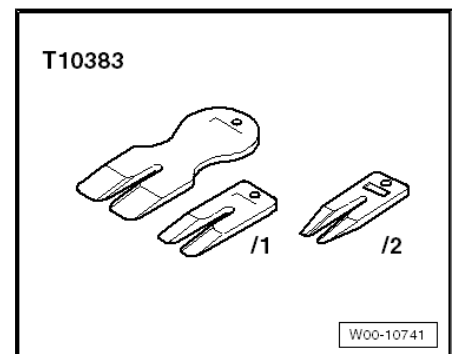
1.2 Removing and installing driver door trim

Special tools and workshop equipment required

- ◆ Removal wedge -3409-

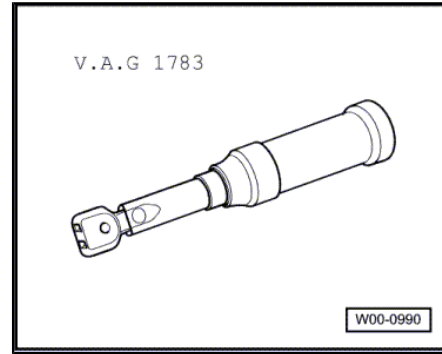


- ◆ Wedges -T10383-



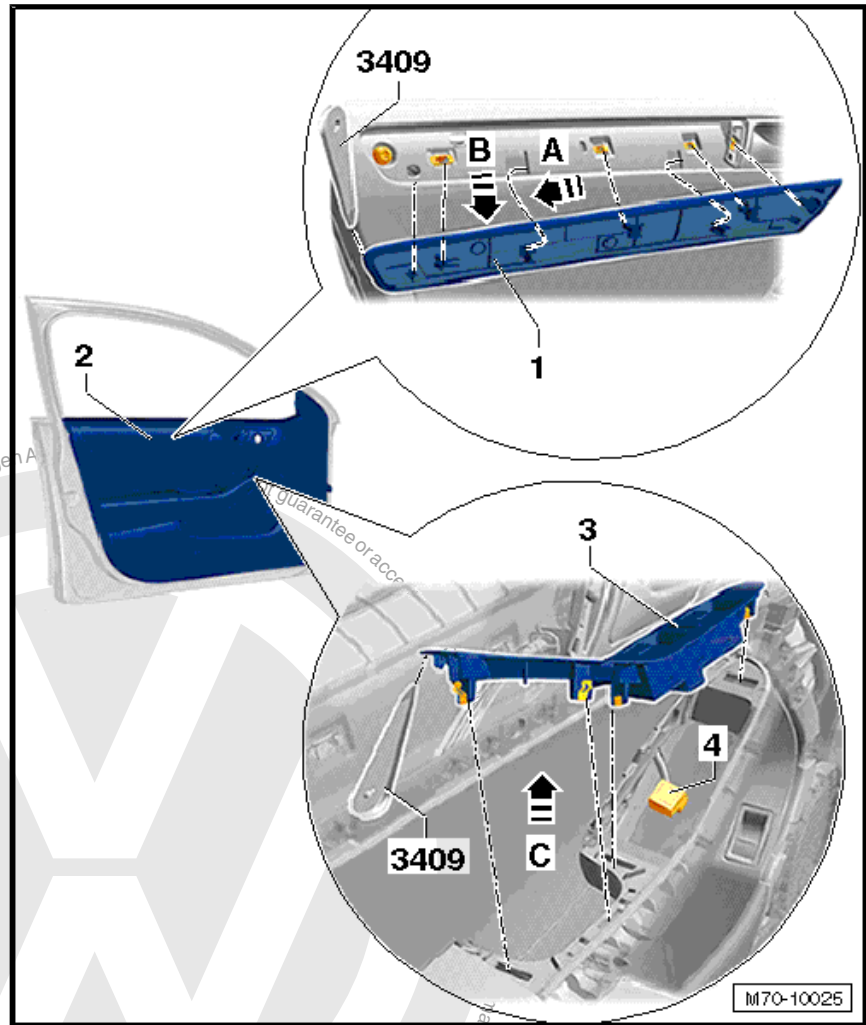


- ◆ Torque wrench -V.A.G 1783-

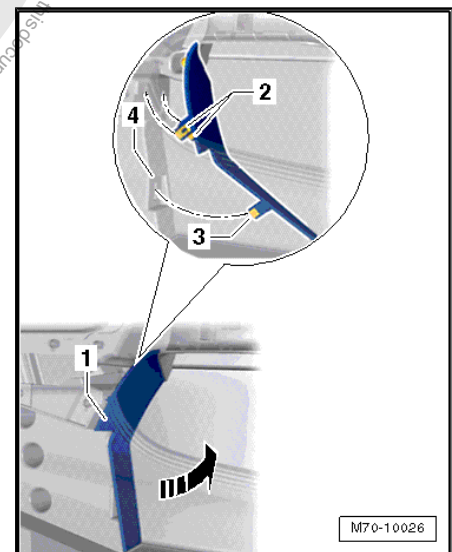


Removing

- Switch off ignition.
- Lever upper part of handle recess -3- upwards out of mountings in door trim -2- in -direction of arrow-, using the removal wedge -3409- to do so.
- Depending on the vehicle's equipment, disconnect wiring harness -4- from upper part of handle recesss -3-.
- Carefully, prize decorative strip -1- out of catches using removal wedge -3409- .
- Push decorative moulding -1- in -direction of arrow A- and remove from door trim -2- in -direction of arrow B-.



- Prize lower part of handle recess -1- out of catches -2- and -3- of door trim -4- in -direction of arrow-, using removal wedge -3409- to do so.



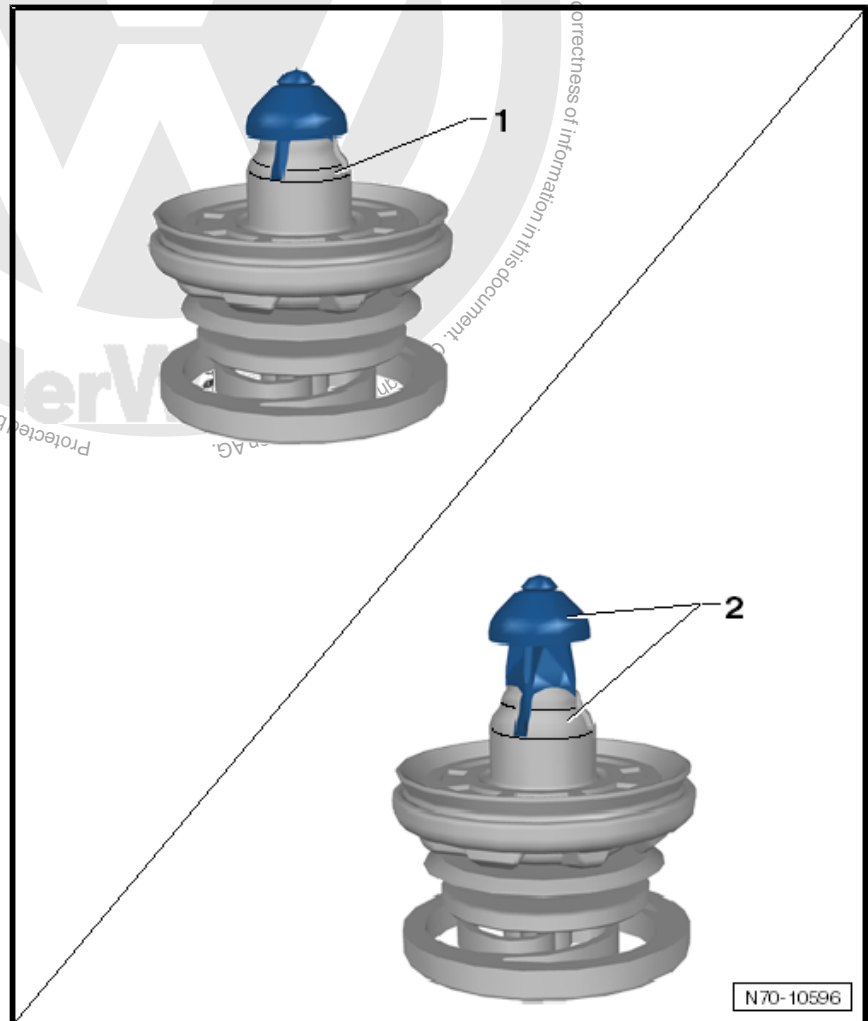
- Undo bolts -4- in area of handle recess and upper door trim (4 Nm).
- Remove bolt -5- (2 Nm).



Caution

Before installing door trim, ensure that the locking mechanisms of all clips are in -position 1-.

It is not possible to install the door trim without problem if clips are in -position 2-!

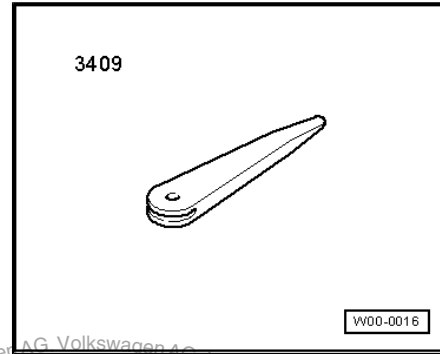


1.3 Removing and installing front passenger door trim

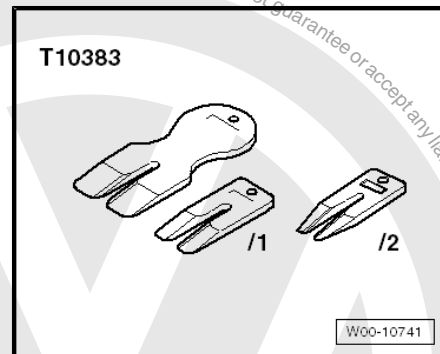
Special tools and workshop equipment required



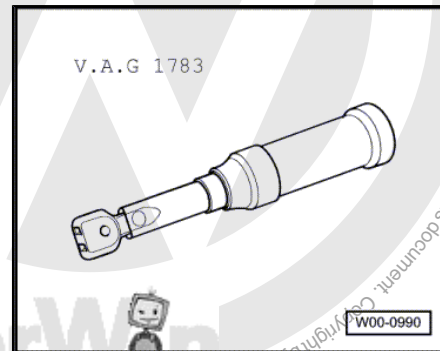
◆ Removal wedge -3409-



◆ Wedges -T10383-

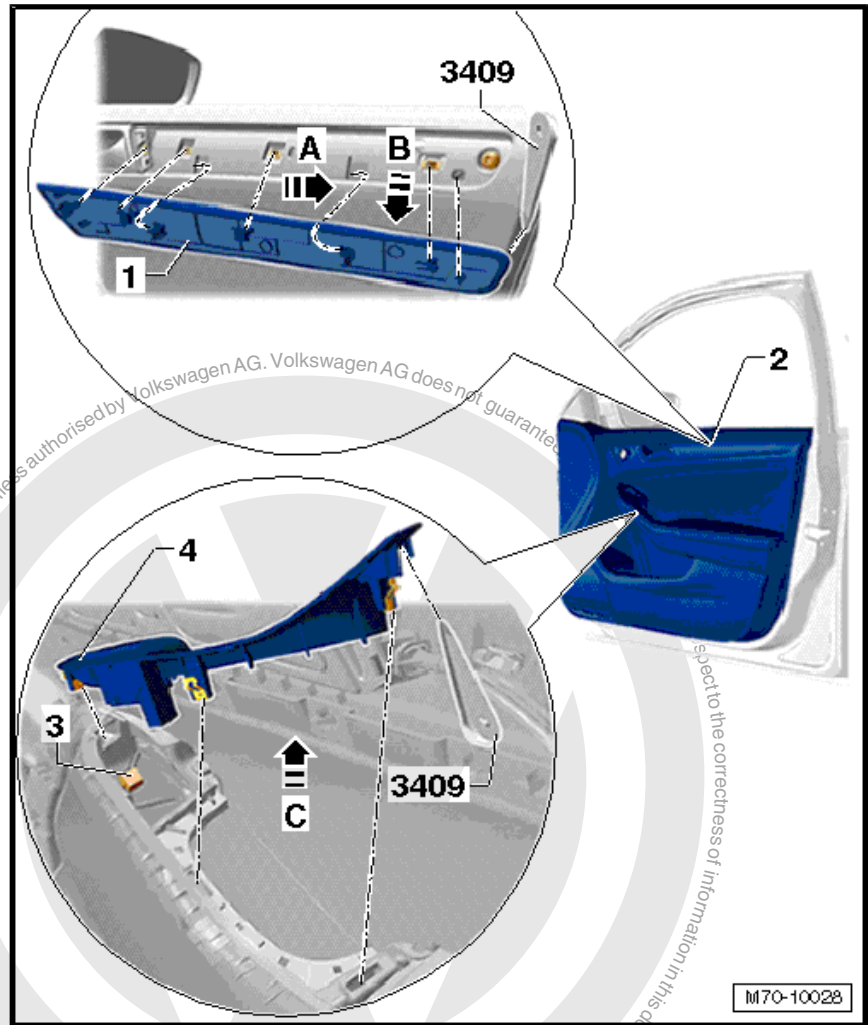


◆ Torque wrench -V.A.G 1783-

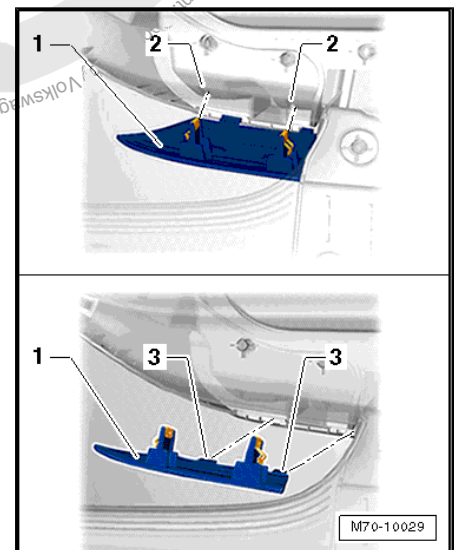


Removing

- Switch off ignition.
- Lever upper part of handle recess -4- upwards out of mountings in door trim -2- in -direction of arrow-, using the removal wedge -3409- to do so.
- Depending on the vehicle's equipment, disconnect wiring harness -3- from upper part of handle recesses -3-.
- Carefully, prize decorative strip -1- out of catches using removal wedge -3409- .
- Push decorative moulding -1- in -direction of arrow A- and remove from door trim -2- in -direction of arrow B-.



- Prize lower part of handle recess -1- out of catches -2- and -3- of door trim, using removal wedge -3409- to do so.



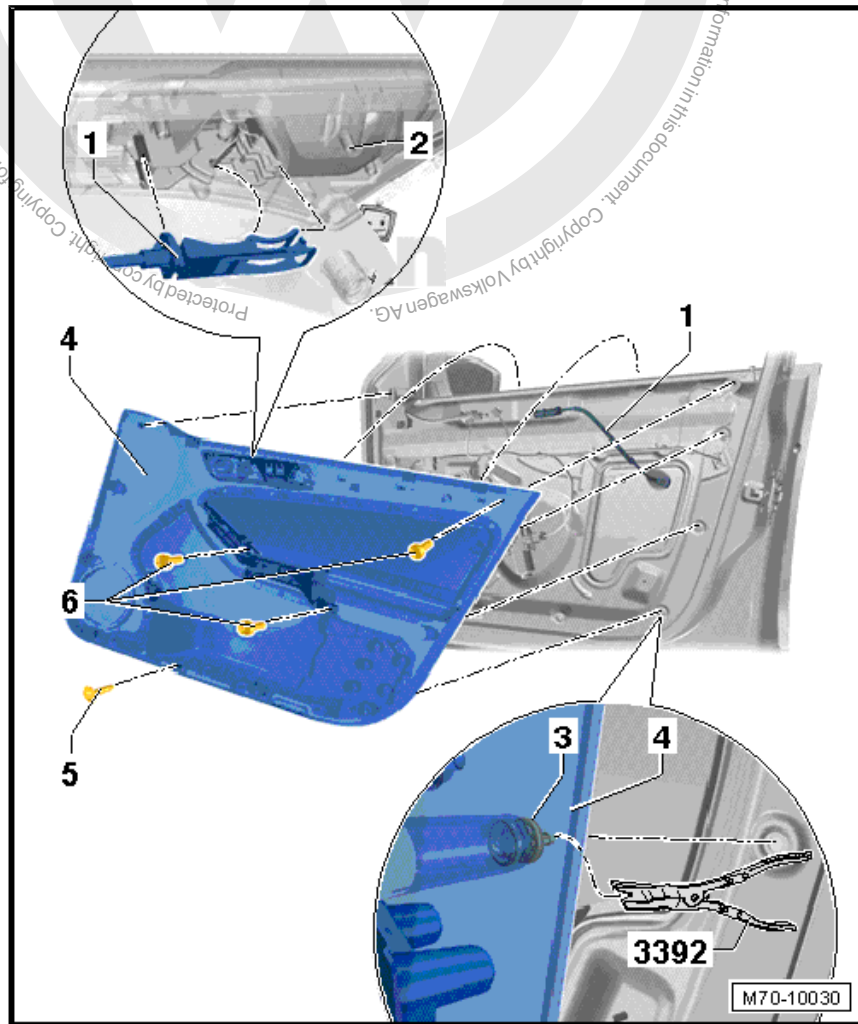
- Undo bolts -6- in area of handle recess and upper door trim (4 Nm).
- Remove bolt -5- (2 Nm).



- Release retaining clips -3- of door trim -4- in lower area from mountings, using wedges -T10383- .
- Release retaining clips -3- of door trim -4- at sides from mountings, using wedges -T10383- .
- Pull door trim -4- upwards vertically out of window slot seal.
- Detach Bowden cable -2- from inner door handle -1-.
- Disconnect the electrical plug-in connections from the door trim -3- in accordance with the vehicle's equipment.

Vehicles with manual mirror adjustment:

- Remove adjusting unit of exterior mirror from mounting of door trim -3-.



Installing

- Install in reverse order of removal.



Note

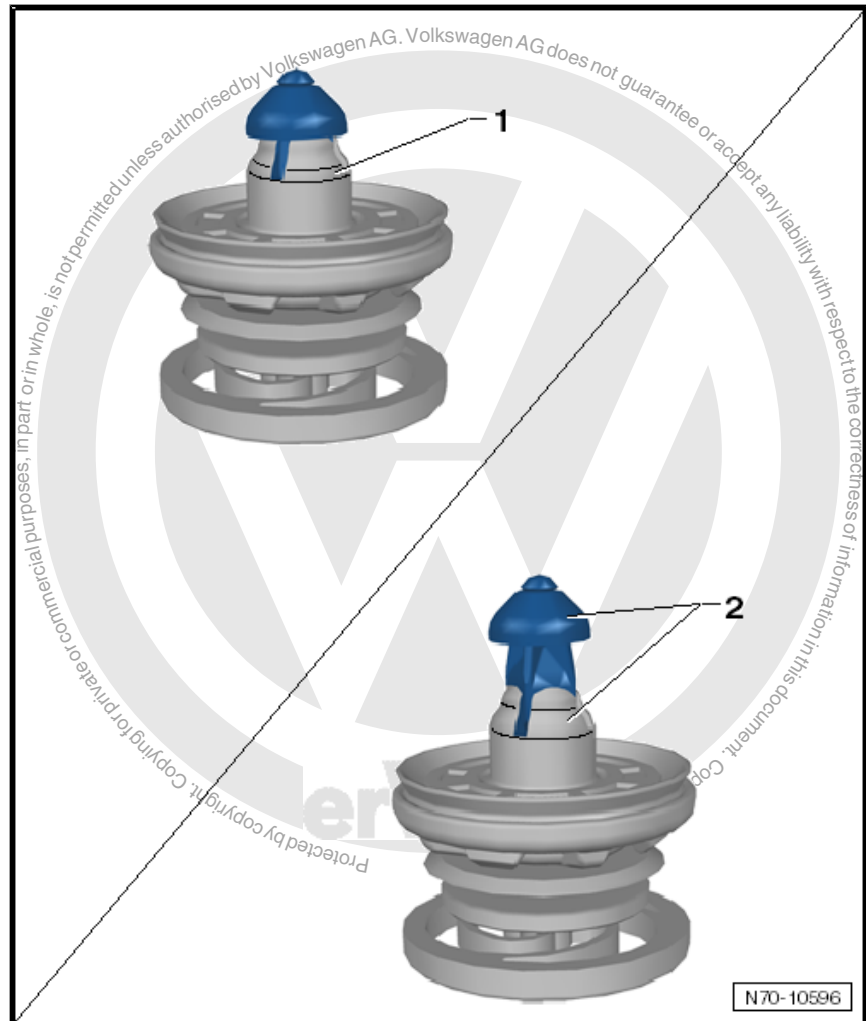
Before installing, check all fasteners for damage and renew if necessary.



Caution

Before installing door trim, ensure that the locking mechanisms of all clips are in -position 1-.

It is not possible to install the door trim without problem if clips are in -position 2-!



1.4 Removing and installing front door trim bracket



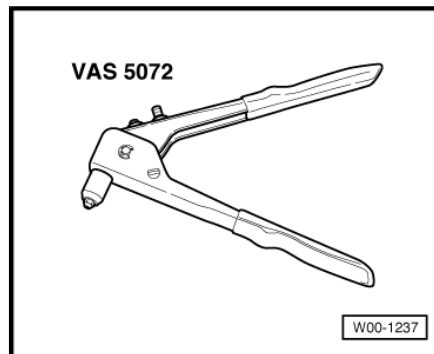
Note

- ◆ *Removal and installation of front door trim bracket is described on the driver side. Removal and installation on the passenger side is analogous.*
- ◆ *The bracket -4- is only installed on the driver side.*

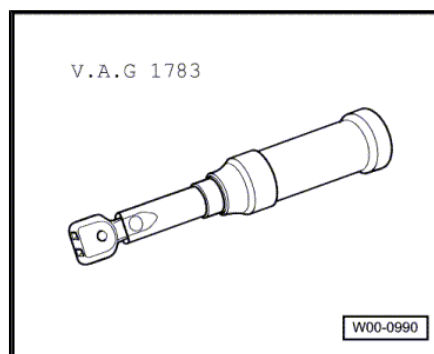
Special tools and workshop equipment required



- ◆ Pop rivet pliers -VAS 5072-



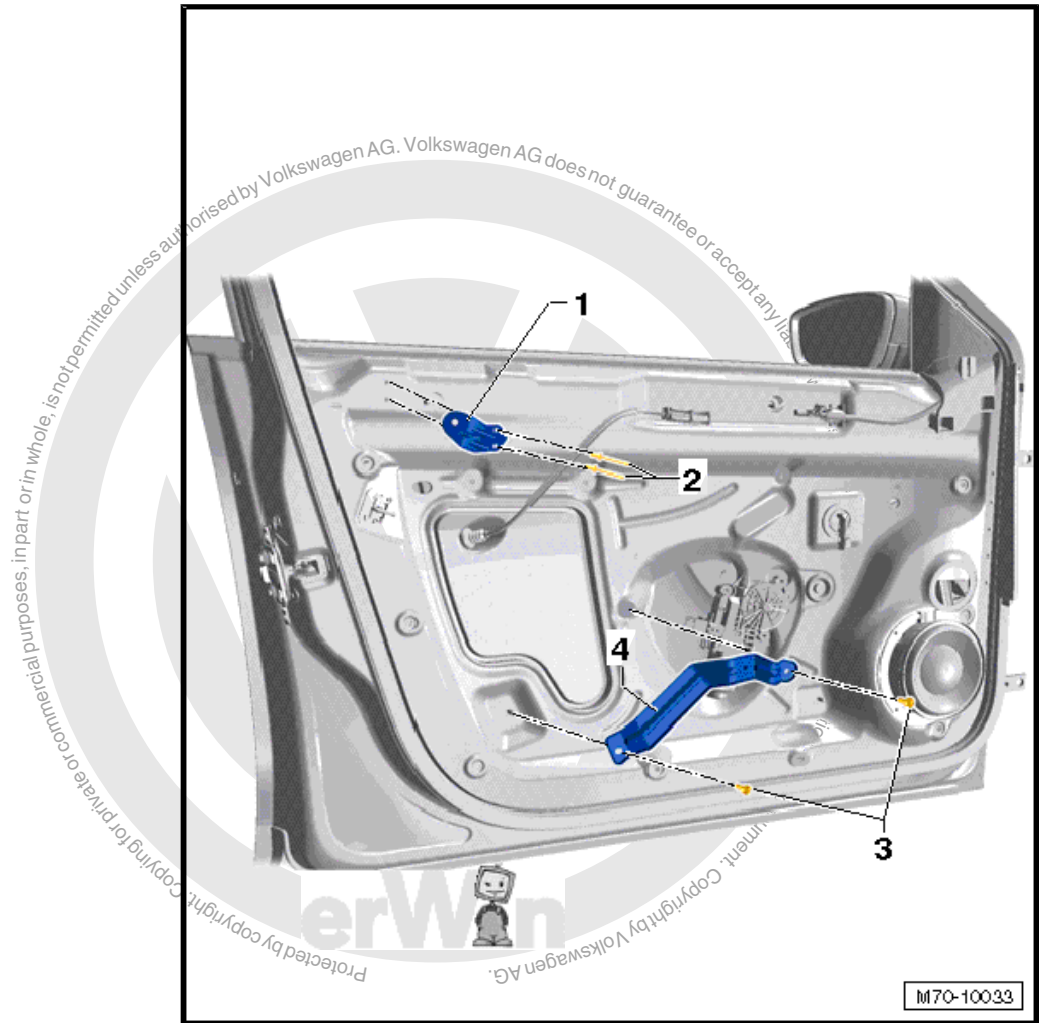
- ◆ Torque wrench -V.A.G 1783-



Removing

- Remove front door trim on driver side ⇒ [page 145](#) .
- Drill open blind rivets -2- and remove securing bracket -1- from door.
- Undo bolts -3- (4 Nm) and remove bracket -4- from door.





Installing

- Install in reverse order of removal.



Note

Rivet on securing bracket, using riveting tongs -VAS 5072- and blind rivets.

1.4.1 Installing

1.5 Removing and installing rear door trim



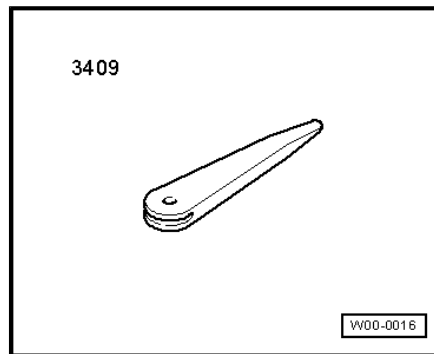
Note

Removal and installation of trim is described for the left rear door. Follow same instructions for trim on right rear door as appropriate.

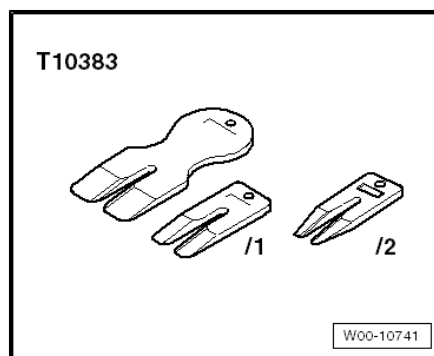
Special tools and workshop equipment required



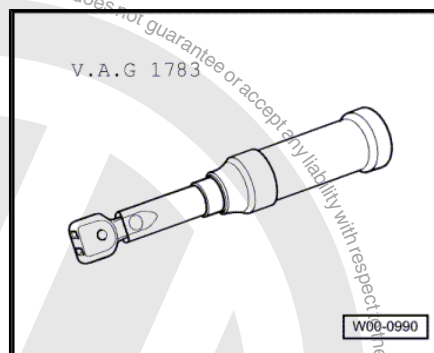
◆ Removal wedge -3409-



◆ Wedges -T10383-

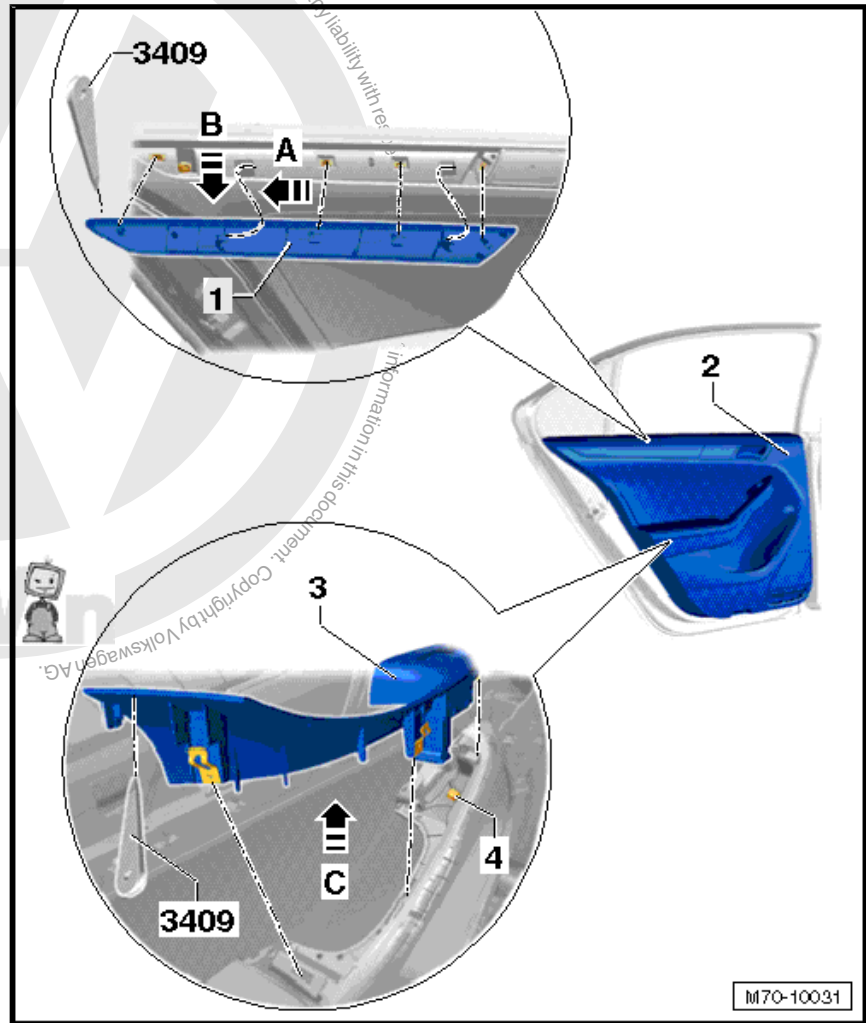


◆ Torque wrench -V.A.G 1783-

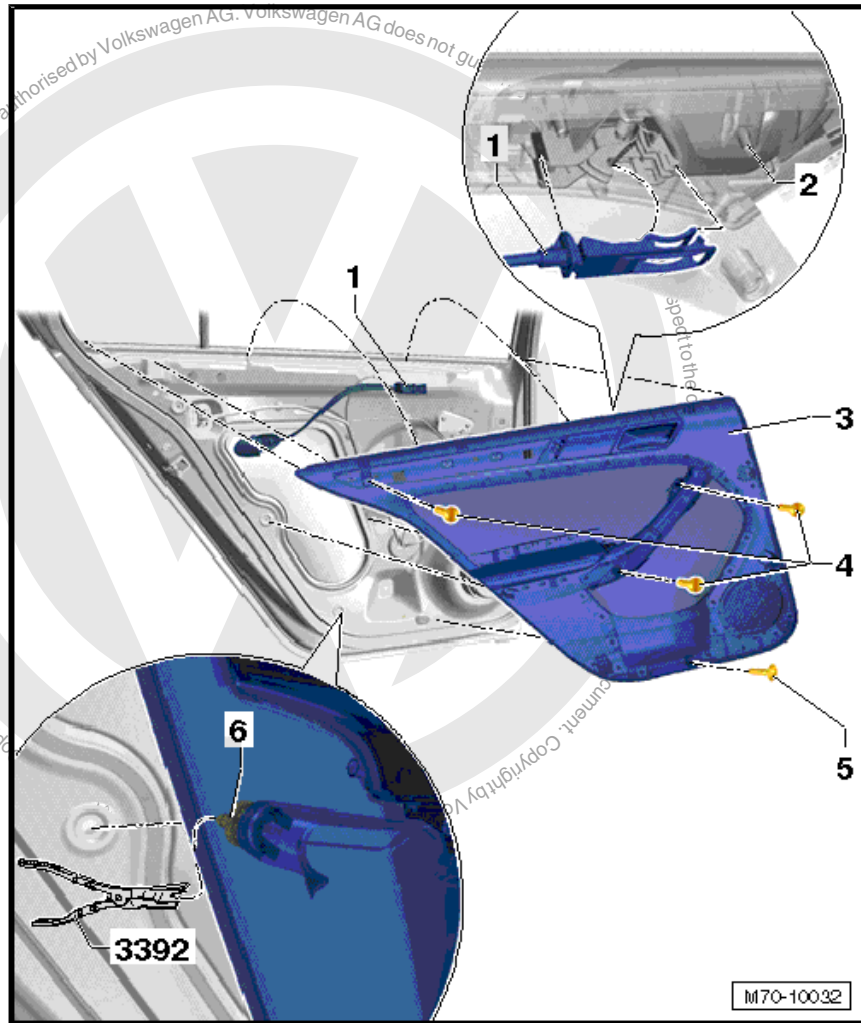


Removing

- Switch off ignition.
- Lever upper part of handle recess -3- upwards out of mountings in door trim -2- in -direction of arrow-, using the removal wedge -3409- to do so.
- Depending on the vehicle's equipment, disconnect wiring harness -4- from upper part of handle recesss -3-.
- Carefully, prize decorative strip -1- out of catches using removal wedge -3409- .
- Push decorative moulding -1- in -direction of arrow A- and remove from door trim -2- in -direction of arrow B-.



- Undo bolts -4- in area of handle recess and upper door trim (4 Nm).
- Remove bolt -5- (2 Nm).
- Release retaining clips -6- of door trim -3- in lower area from mountings, using wedges -T10383- .
- Release retaining clips -6- of door trim -3- at sides from mountings, using wedges -T10383- .
- Pull door trim -3- upwards vertically out of window slot seal.
- Detach Bowden cable -2- from inner door handle -1-.
- Disconnect the electrical plug-in connections from the door trim -3- in accordance with the vehicle's equipment.



Installing

- Install in reverse order of removal.



Note

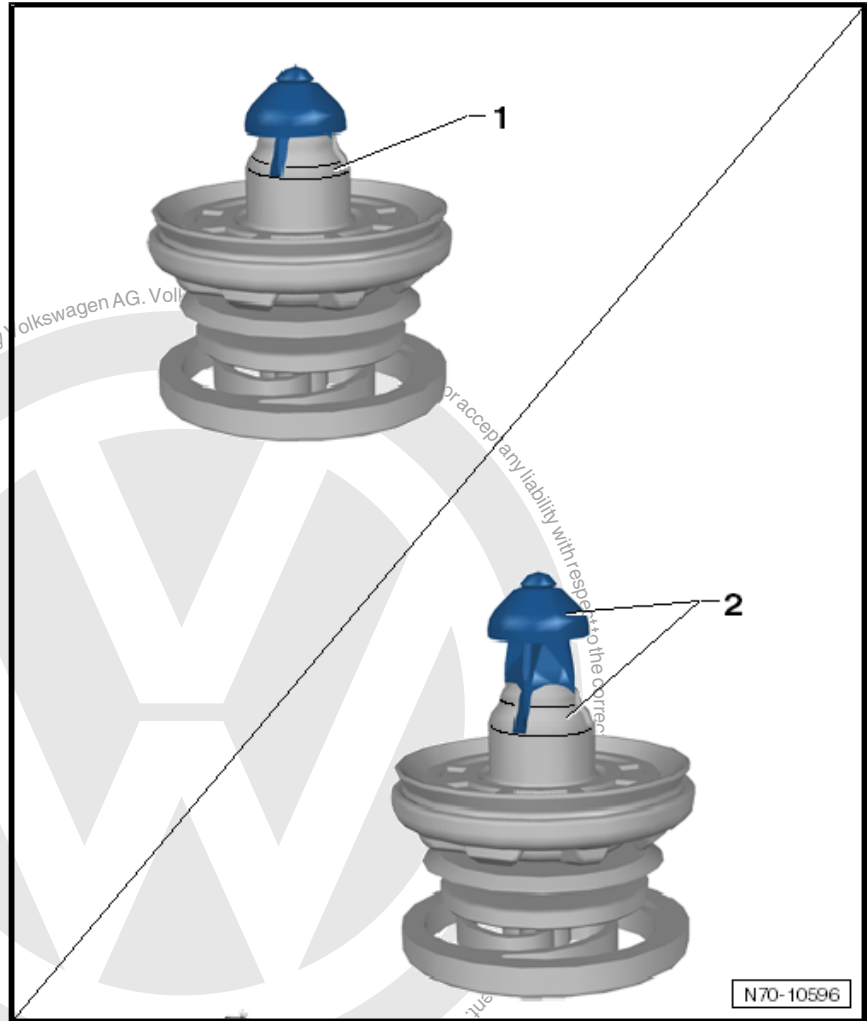
Before installing, check all fasteners for damage and renew if necessary.



Caution

Before installing door trim, ensure that the locking mechanisms of all clips are in -position 1-.

It is not possible to install the door trim without problem if clips are in -position 2-!



1.6 Removing and installing rear door trim bracket



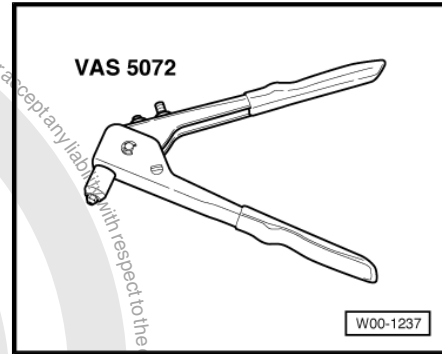
Note

Removal and installation of rear door trim bracket is described on the driver side. Removal and installation on the right vehicle side are analogous.

Special tools and workshop equipment required

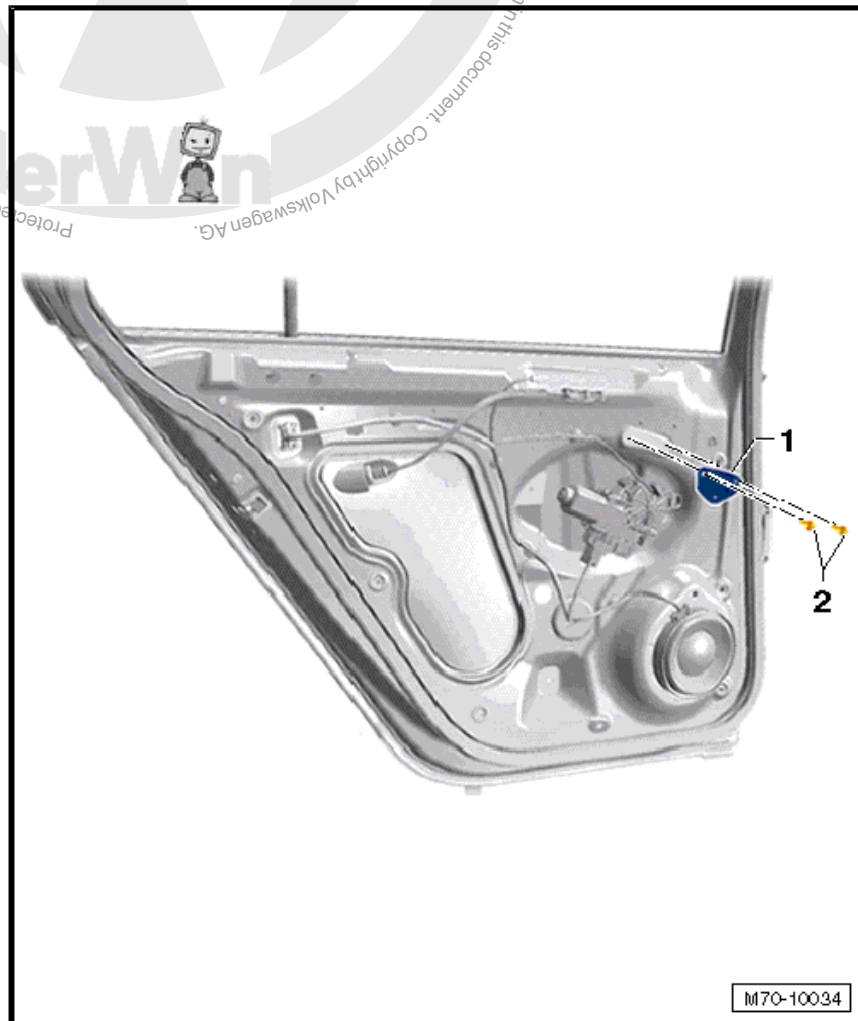


- ◆ Pop rivet pliers -VAS 5072-



Removing

- Remove rear door trim => [page 155](#) .
- Drill open blind rivets -2- and remove securing bracket -1- from door.



Installing

- Install in reverse order of removal.



i Note

Rivet on securing bracket, using riveting tongs -VAS 5072- and blind rivets.

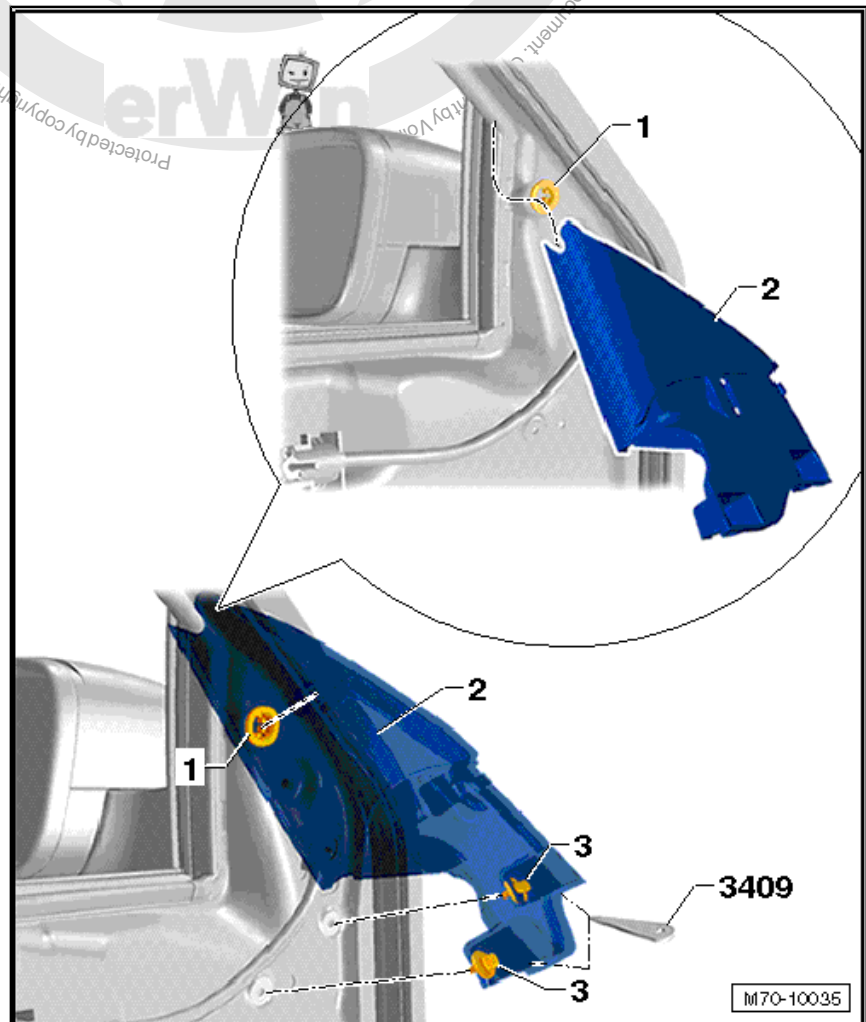
1.7 Removing and installing front inner mirror cover

i Note

Removal and installation are described for the left vehicle side. Removal and installation on the right side of the vehicle are similar.

Removing

- Remove front door trim on driver side ⇒ [page 145](#) .
- Release retaining clips -3- from door, using removing wedge -3409- .
- Carefully detach front inner mirror cover -2- from retaining clip -1- and remove from door.





Installing

- Install in reverse order of removal.



Note

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





2 Dash panel

⇒ ["2.1 Removing and installing covers on side of dash panel", page 163](#)

⇒ ["2.2 Removing and installing dash panel insert trim, with left and middle dash panel vents", page 164](#)

⇒ ["2.3 Removing and installing dash panel vents on right", page 166](#)

⇒ ["2.4 Removing and installing left decorative trim panel on driver side", page 168](#)

⇒ ["2.5 Removing and installing middle trim of dash panel \(vehicles without Climatronic\)", page 168](#)

⇒ ["2.6 Removing and installing trim in middle of dash panel \(vehicles with Climatronic\)", page 170](#)

⇒ ["2.7 Removing and installing dash panel", page 171](#)

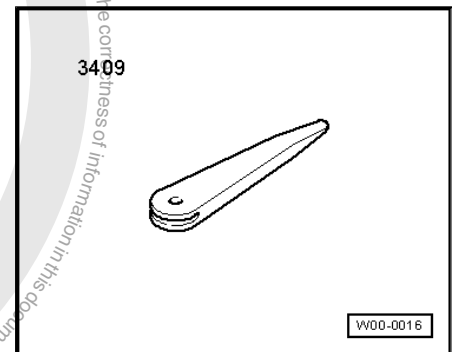
⇒ ["2.8 Deformation elements for dash panel USA", page 180](#)

⇒ ["2.9 Aligning dash panel in vehicle", page 181](#)

2.1 Removing and installing covers on side of dash panel

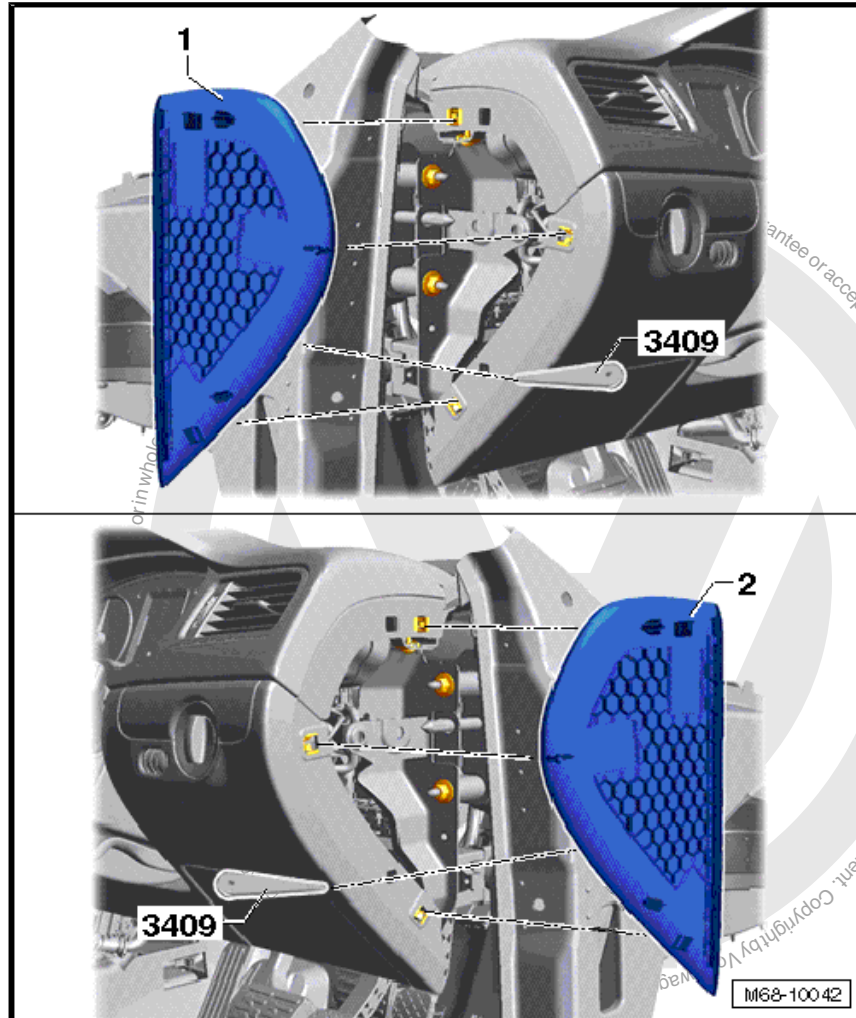
Special tools and workshop equipment required

- ◆ Removal wedge -3409-



Removing

- Using removal wedge -3409-, prise cover on left at side of -1- dash panel out of fasteners.
- Using removal wedge -3409-, prise cover on right at side of -2- dash panel out of fasteners.
- Remove side dash panel covers -1- and -2- from dash panel.



Installing

- Install in reverse order of removal.

Note

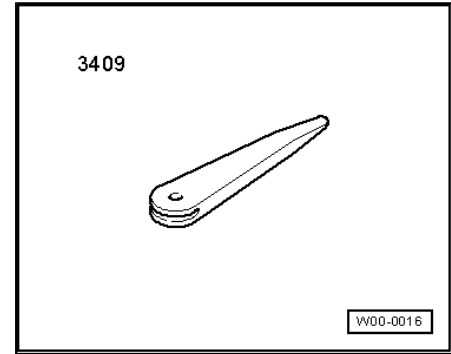
Before installing, check all fasteners for damage and renew if necessary.

2.2 Removing and installing dash panel insert trim, with left and middle dash panel vents

Special tools and workshop equipment required



◆ Removal wedge -3409-



Removing

- Switch off ignition.
- Remove middle dash panel trim ⇒ [page 168](#) .
- Move steering wheel to lowest position.
- Extend steering wheel as far as possible into passenger compartment.
- Detach gap cover from mountings of upper steering column trim using removal wedge -3409- ⇒ [page 15](#) . There is no need to remove the complete steering column trim.

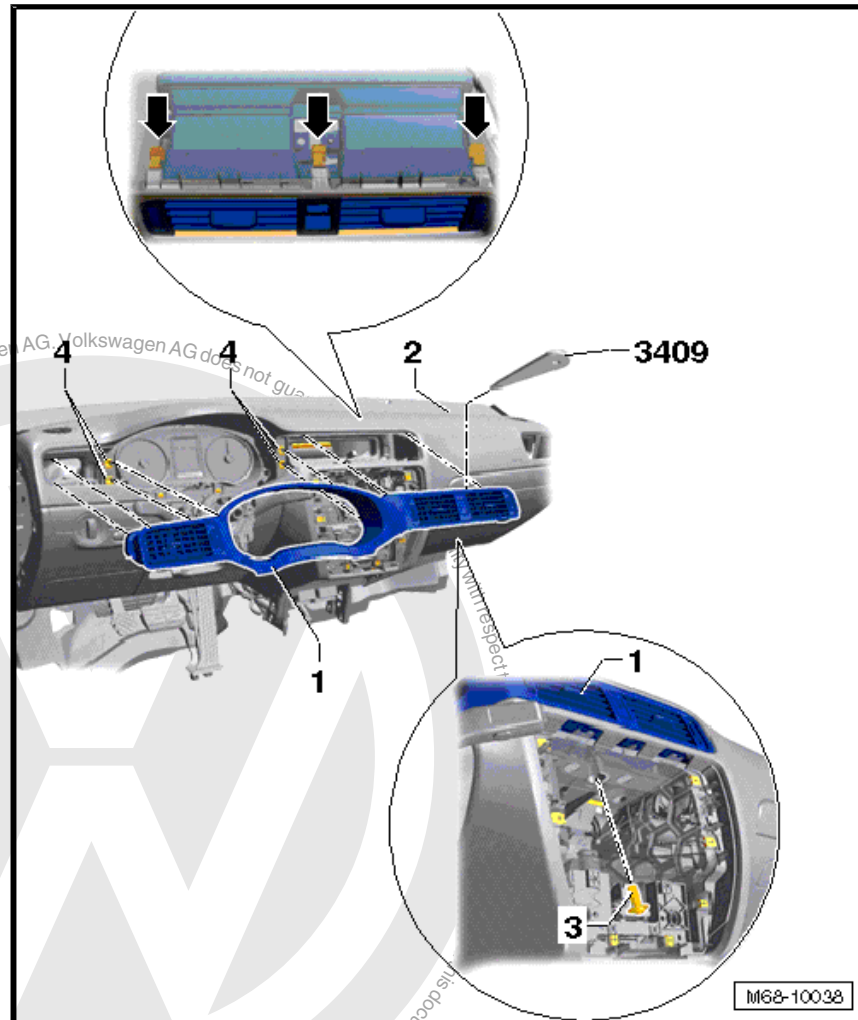


Note

- ◆ *Set left and middle dash panel vents -1- to top position before removal in order to prevent them from breaking.*
- ◆ *Bolt -3- has been discontinued.*

Use removing wedge -3409- to release catches of middle vents -arrows- and pull out dash panel insert trim with middle vent -1- slightly.

- Using removing wedge -3409- , release the catches of left vent and pull out dash panel insert trim with left vent -1- slightly.
- Using removing wedge -3409- , release catches -4- of dash panel insert trim -1- and pull trim out slightly.
- Remove dash panel insert trim together with left and middle dash panel vents -1- from dash panel -2-, at the same time disconnecting the wiring harness leading to hazard warning light switch -E3- .



Installing

- Install in reverse order of removal.



Note

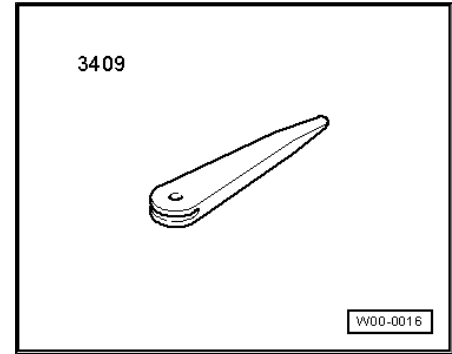
Before installing, check all fasteners for damage and renew if necessary.

2.3 Removing and installing dash panel vents on right

Special tools and workshop equipment required

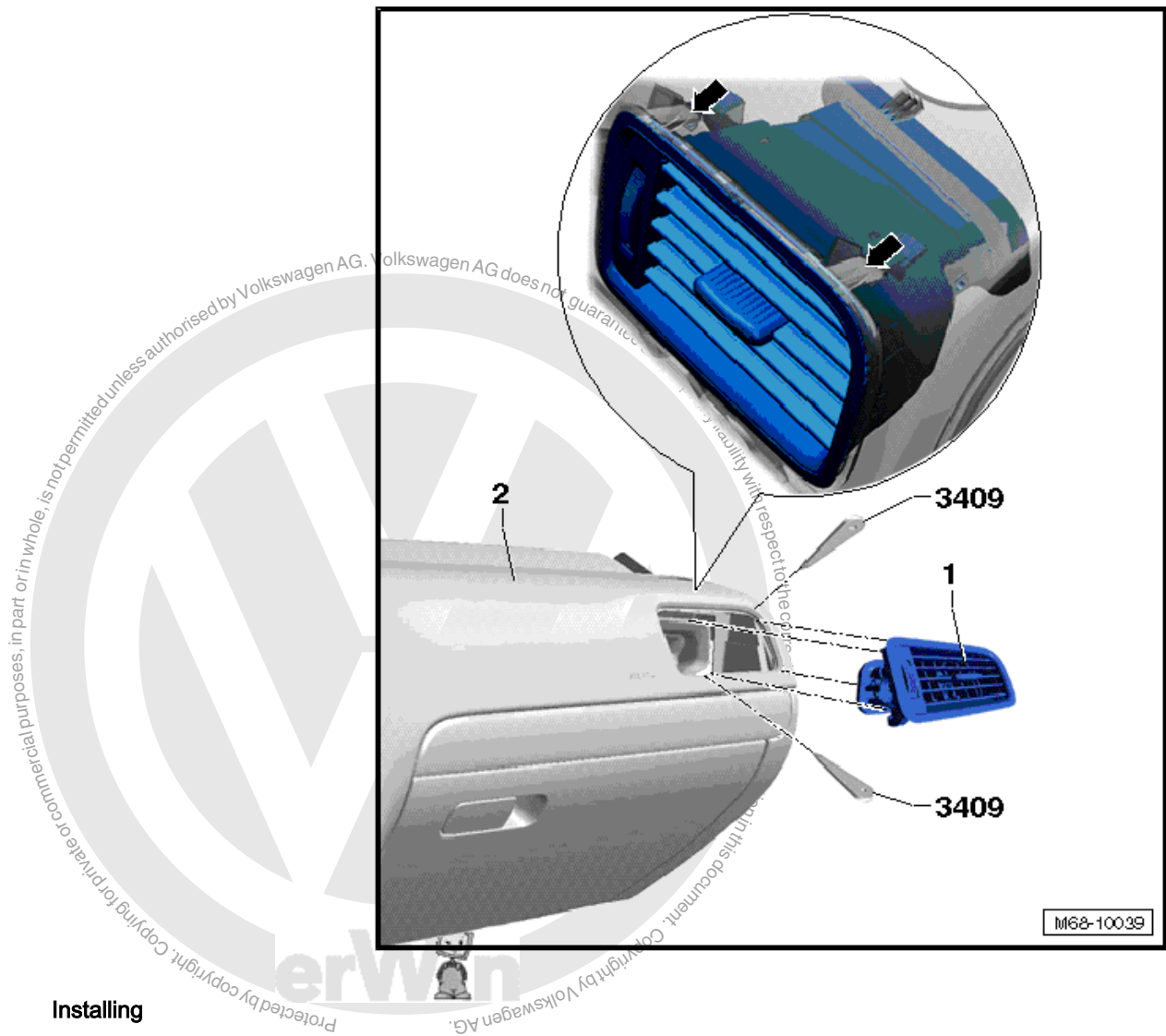


◆ Removal wedge -3409-



Removing

- Using removal wedge -3409- , release the upper and lower catches of the right vent -arrows- and pull out a little.
- Remove dash panel vent on right -1- from dash panel -2-.



Installing

- Install in reverse order of removal.



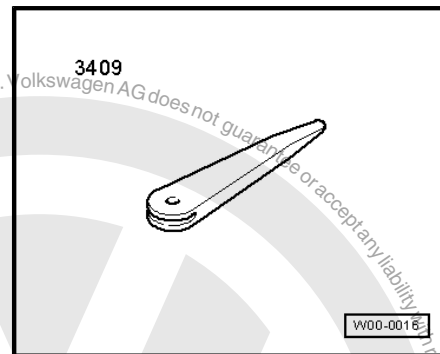
i Note

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

2.4 Removing and installing left decorative trim panel on driver side

Special tools and workshop equipment required

- ◆ Removal wedge -3409-



i Note

For greater clarity, steering wheel is not shown in figure. Its removal is not necessary.

Removing

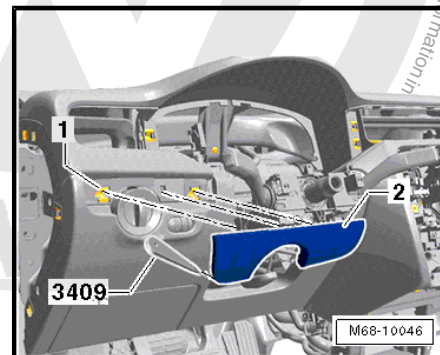
- Release left decorative trim on driver side from retaining clips -1- using removal wedge -3409- and then remove.

Installing

- Install in reverse order of removal.

i Note

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

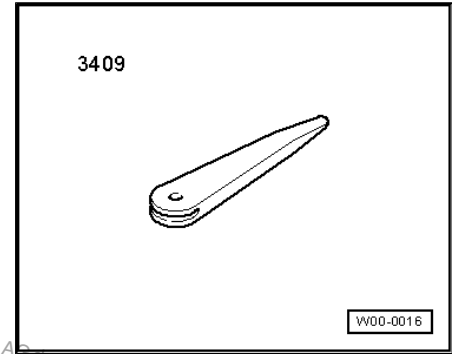


2.5 Removing and installing middle trim of dash panel (vehicles without Climatronic)

Special tools and workshop equipment required



◆ Removal wedge -3409-



Removing

- Prise trim in middle of dash panel -2- out of fasteners in dash panel -1-, using removal wedge -3409- (insert wedge close to fastener).



Installing

- Install in reverse order of removal.



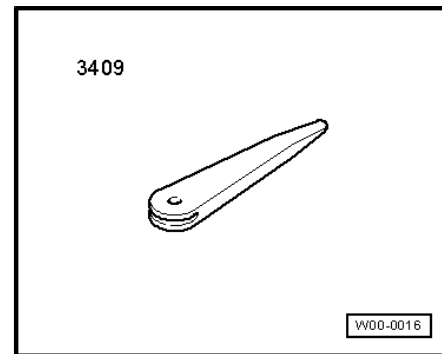
Note

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

2.6 Removing and installing trim in middle of dash panel (vehicles with Climatronic)

Special tools and workshop equipment required

- ◆ Removal wedge -3409-



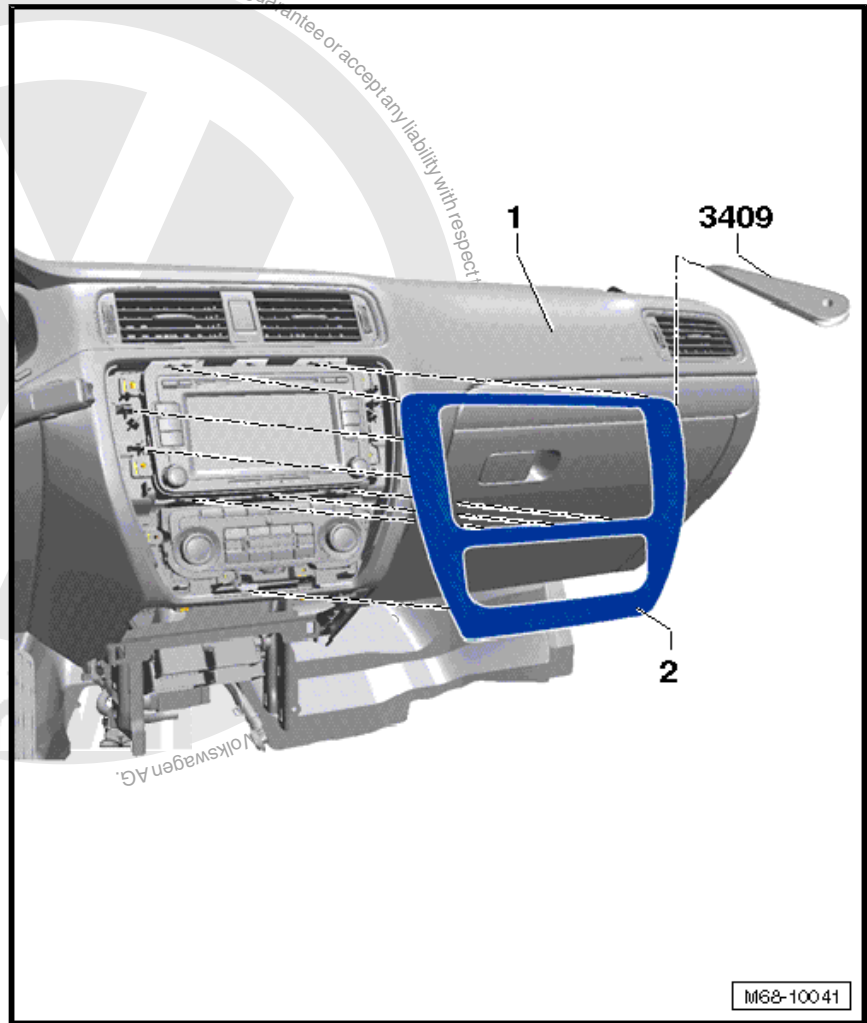
Removing

- Prise trim in middle of dash panel -2- out of fasteners in dash panel -1-, using removal wedge -3409- (insert wedge close to fastener).





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Installing

- Install in reverse order of removal.



Note

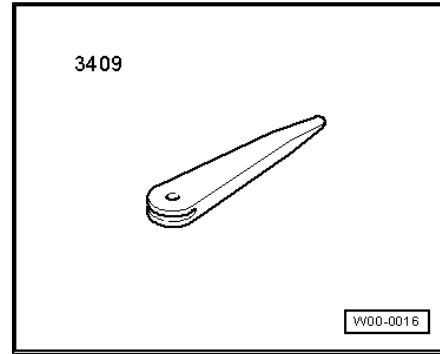
Before installing, check all fasteners for damage and renew if necessary.

2.7 Removing and installing dash panel

Special tools and workshop equipment required



- ◆ Removal wedge -3409-



Removing

- Move front seats to rearmost position and tilt backrests by 45°.



WARNING

- ◆ **Follow safety regulations for pyrotechnic components**
⇒ [page 1](#) .
- ◆ **Note assignment of airbag to dash panel** ⇒ **Electronic parts catalogue** .

- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .
- Remove airbag unit on driver side ⇒ [page 82](#) .
- Remove steering wheel. ⇒ Running gear, axles, steering; Rep. gr. 48 ; Removing and installing steering wheel
- Remove side dash panel covers ⇒ [page 163](#) .
- Remove centre A-pillar trims ⇒ [page 192](#) .
- Remove upper A-pillar trims ⇒ [page 191](#) .
- Remove centre console:
 - ◆ »Basic« ⇒ [page 26](#) .
 - ◆ »Comfort and Highline« ⇒ [page 30](#) .
- Remove dash panel insert trim, with left and middle dash panel vents ⇒ [page 164](#) .
- Remove glove compartment ⇒ [page 18](#) .
- Remove steering column trim ⇒ [page 15](#) .
- Remove steering column electronics control unit -J527- . ⇒ Electrical system; Rep. gr. 94 ; Steering column switch; Removing and installing steering column electronics control unit -J527-
- Remove clock spring for airbag and coil connector with slip ring -F138- . ⇒ Electrical system; Rep. gr. 94 ; Steering column switch; Removing and installing airbag coil connector and return spring with slip ring -F138- .
- Remove steering angle sender -G85- . ⇒ Electrical system; Rep. gr. 94 ; Steering column switch; Removing and installing steering angle sender -G85-
- Remove turn signal switch -E2- . ⇒ Electrical system; Rep. gr. 94 ; Steering column switch; Removing and installing turn signal switch



- Remove windscreen wiper switch -E- . ⇒ Electrical system; Rep. gr. 94 ; Steering column switch; Removing and installing windscreen wiper switch -E-
- Remove dash panel insert ⇒ Electrical system; Rep. gr. 90 ; Dash panel insert .
- Remove left dash panel cover on driver side ⇒ [page 17](#) .

Vehicles with no Climatronic

- Remove middle dash panel trim (vehicles without Climatronic) ⇒ [page 168](#)
- Remove heating controls ⇒ Heating, air conditioning; Rep. gr. 80 ; Repairing heating .

Vehicles with Climatronic

- Remove middle dash panel trim (vehicles with Climatronic) ⇒ [page 170](#) .
- Remove controls for air-conditioning system or Climatronic ⇒ Heating, air conditioning system; Rep. gr. 87 ; .
- If sunlight penetration photosensor -G107- or sunlight penetration photosensor 2 -G134- is fitted, remove it ⇒ Heating, air conditioning; Rep. gr. 87 ; Climatronic - air conditioning with automatic regulation; Removing sunlight penetration photosensor -G107- or sunlight penetration photosensor 2 -G134- .

Vehicles with radio system

- Remove radio ⇒ Communication; Rep. gr. 91 .

Vehicles with navigation

- Remove navigation display and operating unit ⇒ Communication; Rep. gr. 91 .

Vehicles with a mobile phone holder on the dash panel

- Disconnect wiring harness leading to mobile phone holder ⇒ Communication; Rep. gr. 91 ; Telephone systems; Preparation for telephone system/universal telephone system; Removing and installing telephone holder .

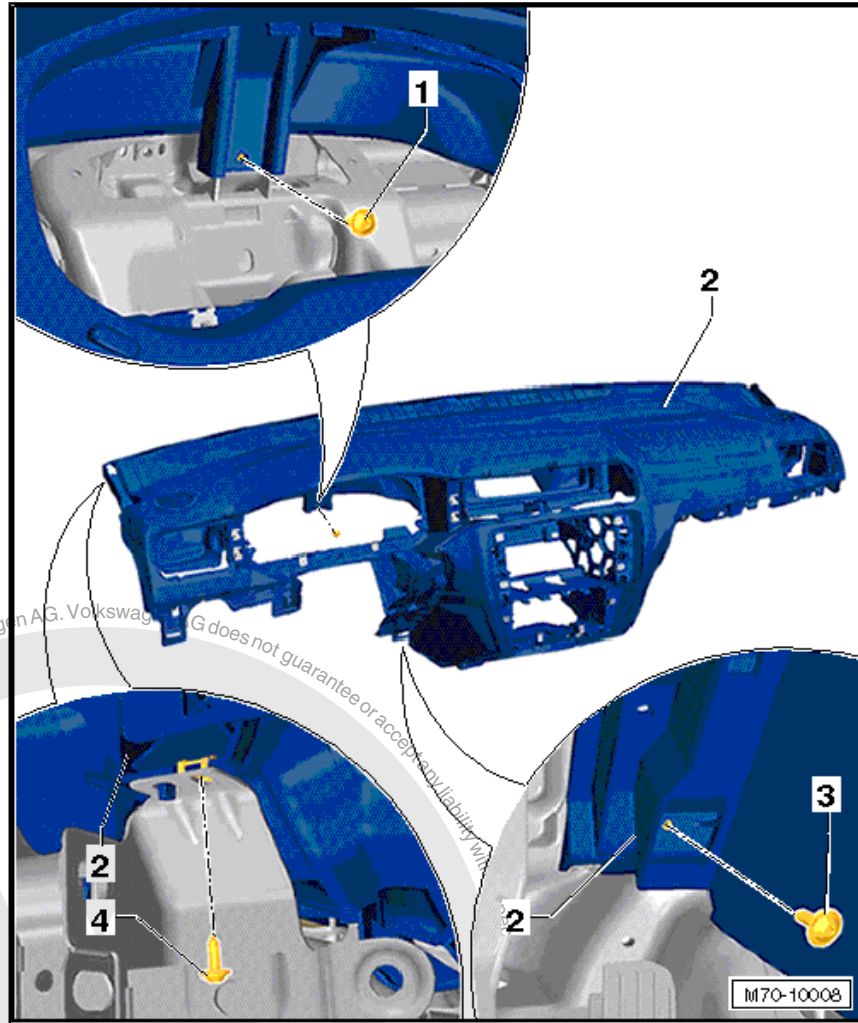
All vehicles

- Undo bolts -1-, -3- and -4- from dash panel -2- (1.5 Nm).



Note

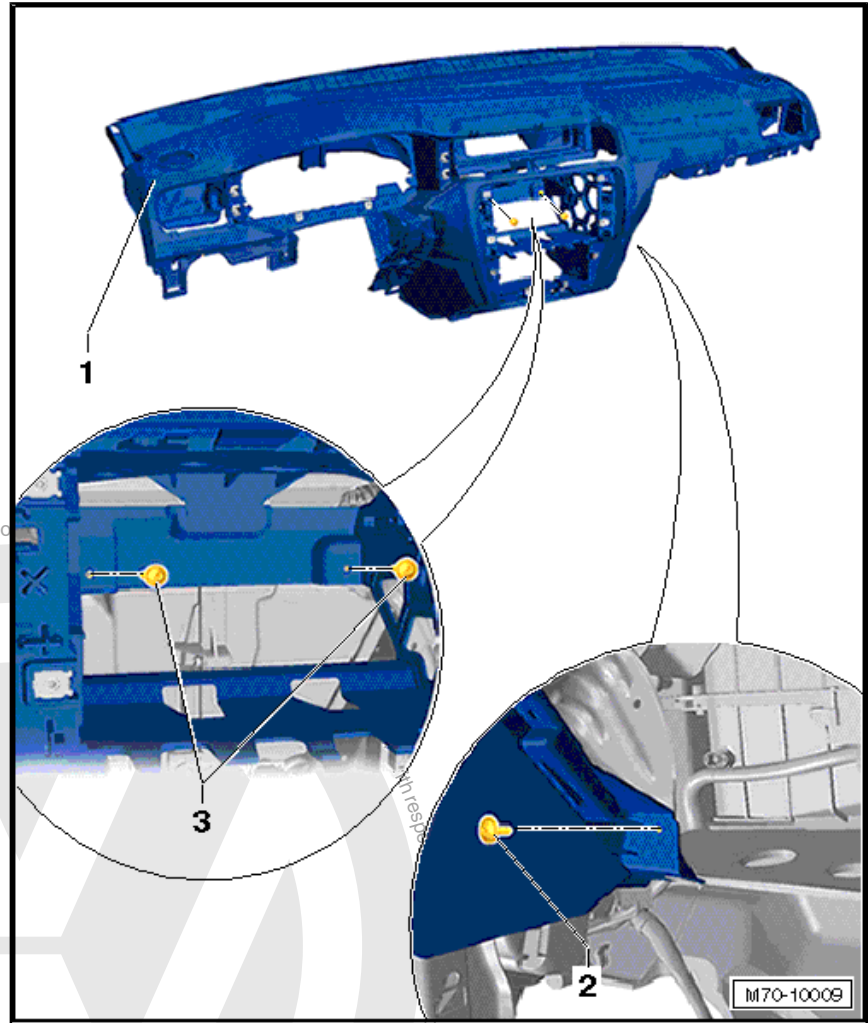
Prior to installing bolt -1-, ensure that the bushes are inserted in dash panel mounting.



– Undo bolts -2- and -3- from dash panel -1- (1.5 Nm).

i Note

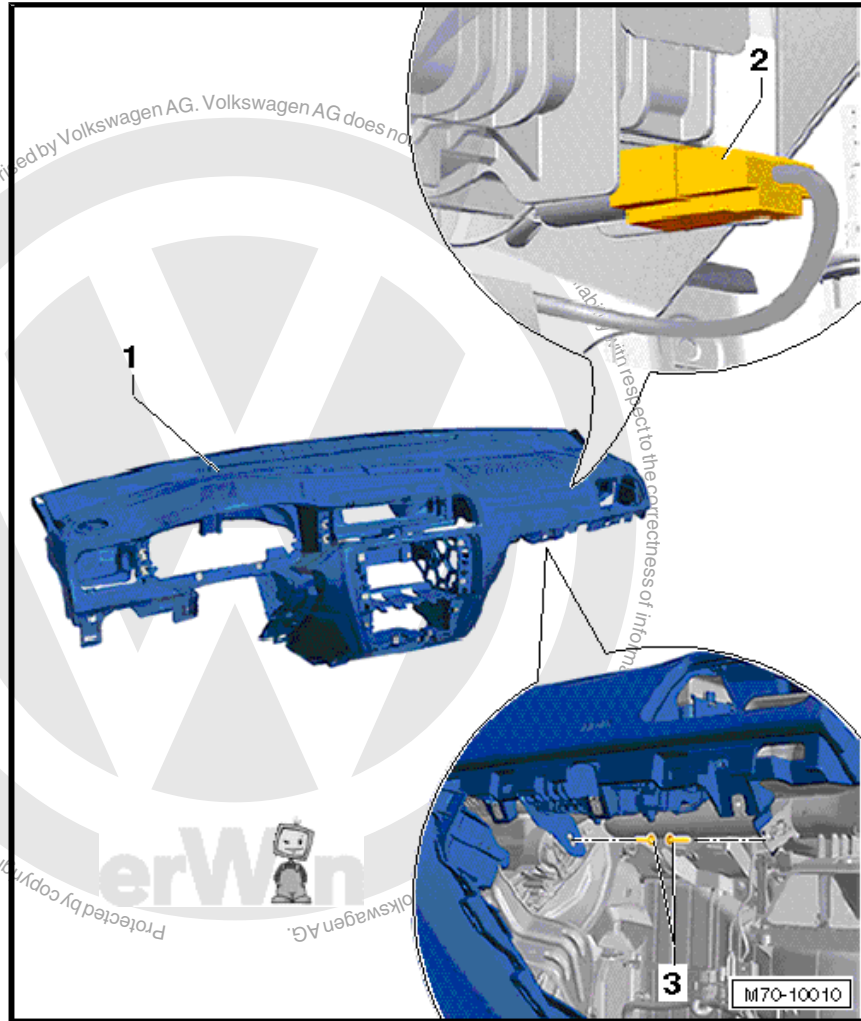
Prior to installing bolts -3-, ensure that the bushes are inserted in dash panel mounting.



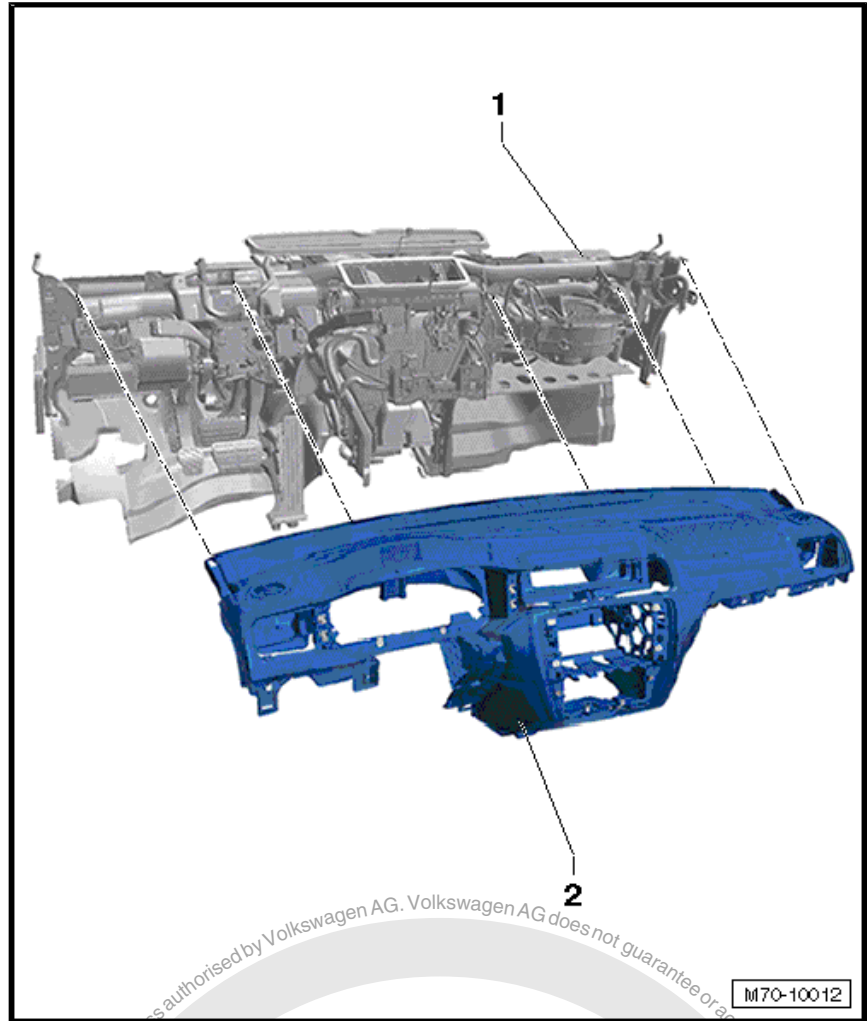
WARNING

Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.

- Detach connector -2- from front passenger airbag.
- Undo bolt -3- from dash panel -1- (9 Nm).



- Pull dash panel -2- out of mountings at overlap to windscreen and from dash panel central tube -1-.
- Depending on the vehicle's equipment, disconnect the corresponding wiring harnesses and, with the help of a second mechanic, remove dash panel -2-.



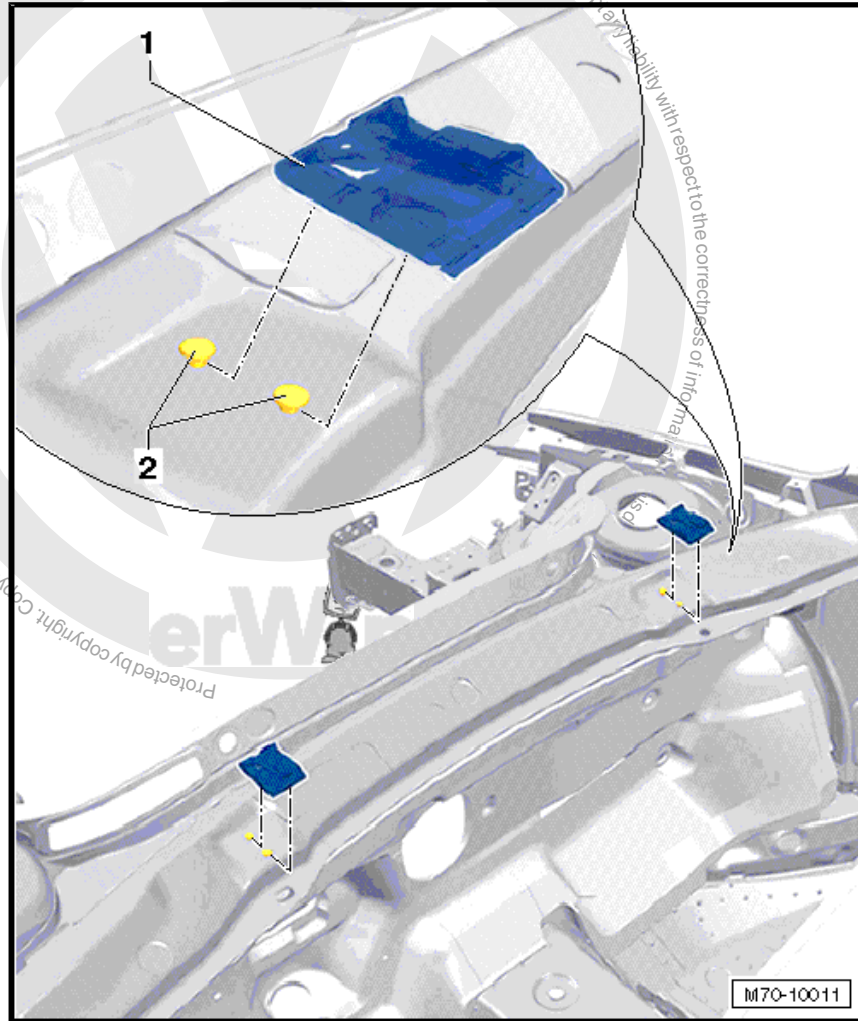
Installing



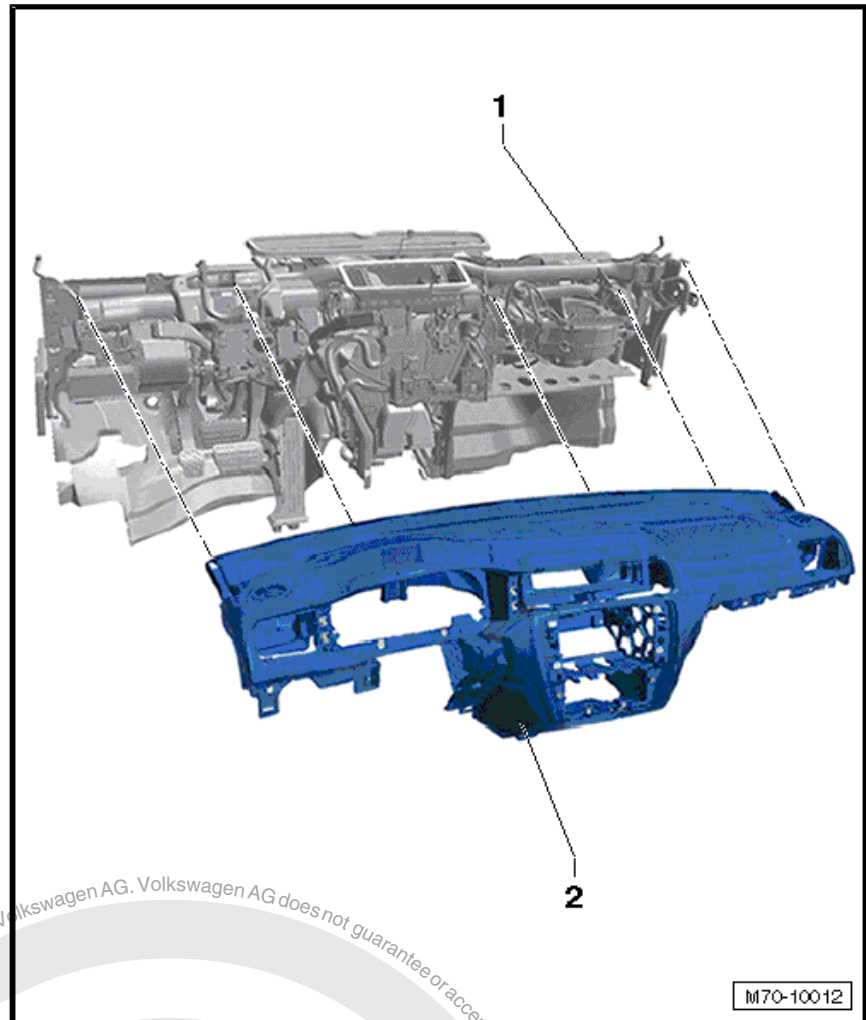
Note

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

- Before installing dash panel, check whether the mountings -1- are firmly attached to the stud bolts -2-.



- With the aid of a second mechanic place dash panel -1- onto dash panel central tube -1- so that a perfect fit is achieved.



WARNING

- ◆ **Follow safety regulations for pyrotechnic components**
⇒ [page 1](#).
- ◆ **Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.**



Note

Ensure electrical connector is pushed fully onto stop and engages audibly.



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .



Note

If airbag warning lamp -K75- indicates a fault following installation, event memory must be read, deleted and read again ⇒ Vehicle diagnostic tester.

- Further installation is performed in the reverse order of removal.

2.8 Deformation elements for dash panel USA

Removing

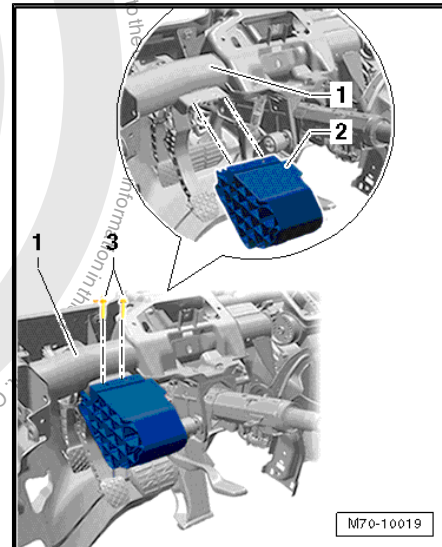
- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .

Driver side deformation element

- Removing dash panel ⇒ [page 171](#) .
- Remove bolts -3- (1.5 Nm).
- Remove deformation element -2- from dash panel central tube -1-

Middle deformation element

- Removing dash panel ⇒ [page 171](#) .
- Remove bolts -1- (1.5 Nm).

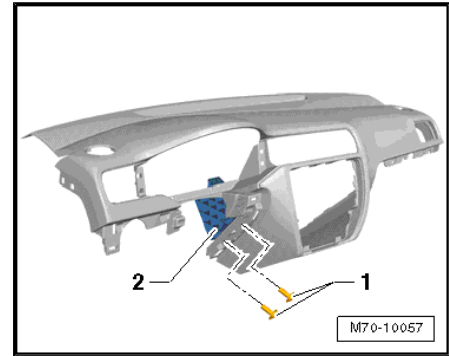




- Take deformation element -2- off dash panel.

Front passenger side deformation element

- Remove glove compartment ⇒ [page 18](#) .
- Remove bolts -2- (1.5 Nm).



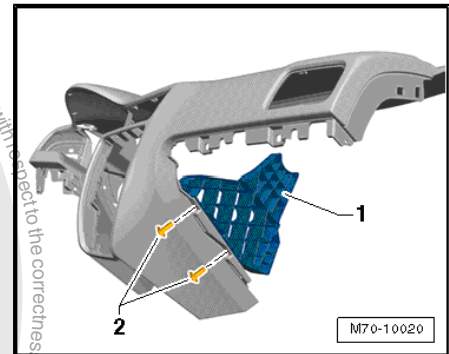
- Take deformation element -1- off dash panel.

Installing

Install in reverse order of removal.

Note

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



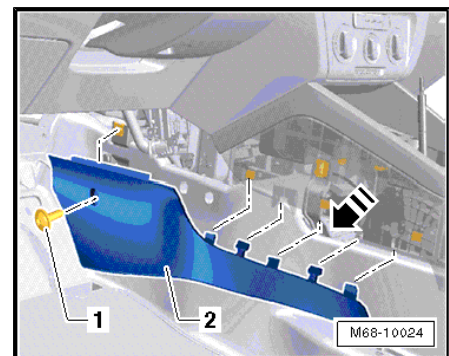
2.9 Aligning dash panel in vehicle

Note

The dash panel can be aligned for height and at right angles to the direction of travel.

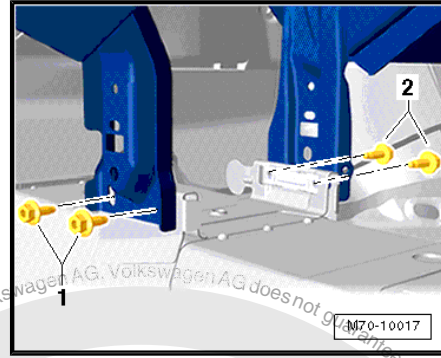
Carry out following work..

- Remove wiper arms ⇒ Rep. gr. 92.
- Removing plenum chamber cover ⇒ Rep. gr. 64 .
- Remove side dash panel covers ⇒ [page 163](#) .
- Unscrew and remove bolt -1- on each side (1.5 Nm).
- Remove trim on each side -2- of centre console in -direction of arrow-.

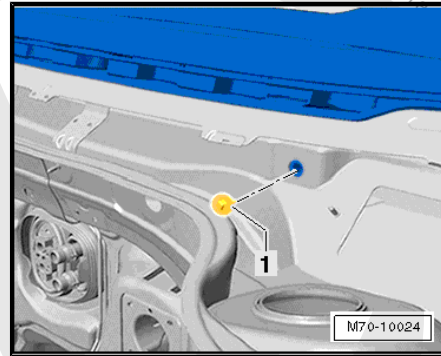




- Only undo bolts -1- and -2- 2 to 3 turns (20 Nm).



- Only undo bolts -1- 2 to 3 turns (20 Nm).



- Undo nuts -1- and nuts -4- 2 to 3 turns (20 Nm).

Aligning height of dash panel



Note

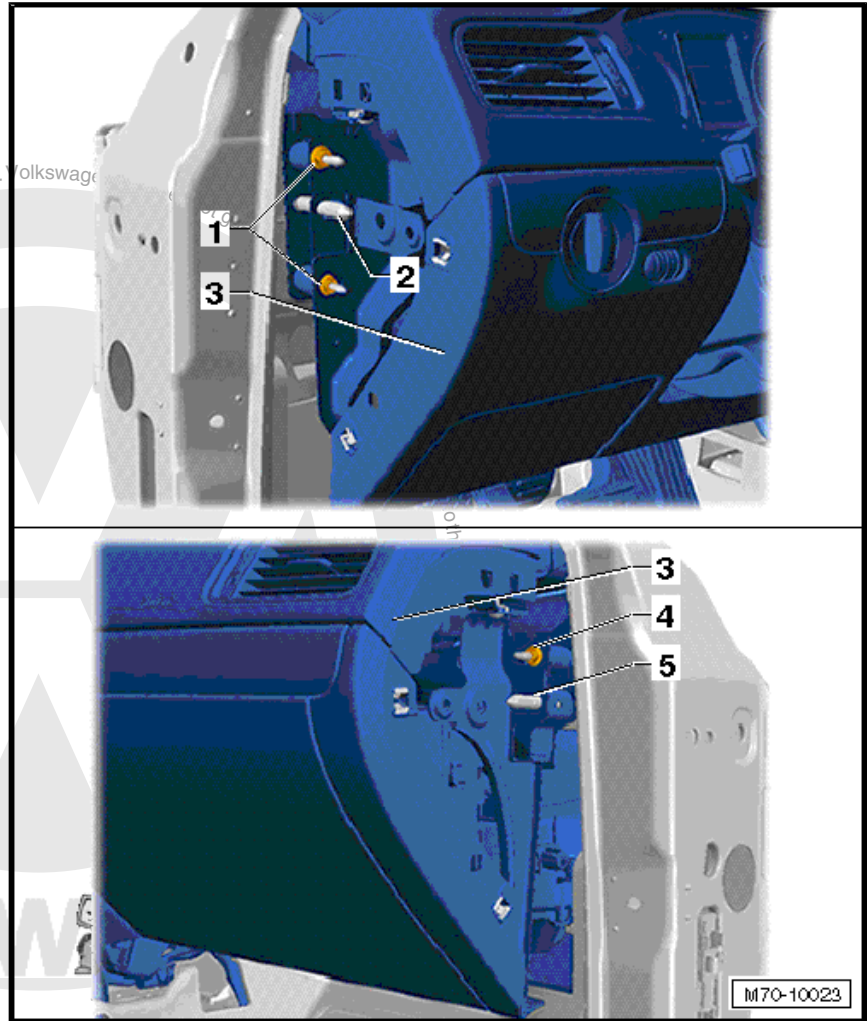
- ◆ Set the desired height of the dash panel -3-, using eccentric bolts -2- and -4-.
 - ◆ In the default position, the longer surface of the eccentric faces the outside of the vehicle.
 - ◆ The eccentric must not be turned further than $\pm 90^\circ$ from the default position.
- Set the desired height of the dash panel -3-, using eccentric bolts -2- and -4-.

Aligning dash panel horizontally

- Push dash panel -3- into the desired position.



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- After aligning dash panel in vehicle, fasten it in place, tightening bolts to specified torques.

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



3 Dash panel central tube

⇒ [“3.1 Assembly overview - dash panel central tube”, page 184](#)

⇒ [“3.2 Removing and installing dash panel central tube”, page 185](#)

⇒ [“3.3 Removing and installing bracket for dash panel central tube, LHD vehicles”, page 189](#)

3.1 Assembly overview - dash panel central tube



Note

If electrical wires are disconnected or removed and installed, it is useful to make corresponding drawings or photos. This guarantees that everything is re-installed in its original position.

1 - Nut

- Qty. 2
- Specified torque 9 Nm.

2 - Bolt

- Only USA
- Qty. 2.
- Specified torque 1.5 Nm.

3 - Bolt

- Is located in left plenum chamber
- Specified torque 20 Nm.

4 - Nut

- Qty. 2
- Specified torque 4.5 Nm.

5 - Dash panel central tube, USA

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

6 - Front passenger side deformation element

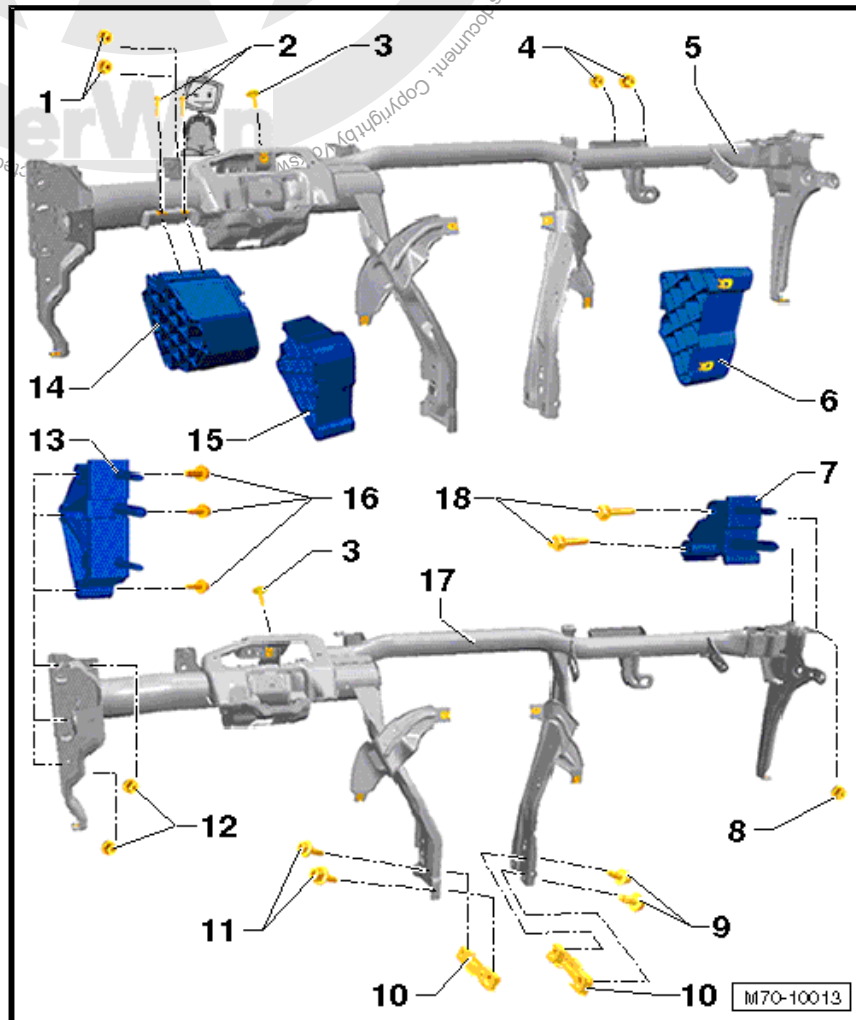
- Only USA
- Bolted to dash panel
- Removing and installing ⇒ [page 180](#).

7 - Bracket with eccentric

- Bracket of dash panel central tube, front passenger side, bolted to A-pillar
- Dash panel can be aligned by means of bracket ⇒ [page 181](#)
- Removing and installing ⇒ [page 189](#).

8 - Nut

- Nuts of dash panel central tube to bracket ⇒ [Item 7 \(page 184\)](#)
- Specified torque 20 Nm.





9 - Bolt

- Bolt of dash panel central tube to middle tunnel
- Qty. 2
- Specified torque 20 Nm.

10 - Threaded plate

- Threaded plate for middle tunnel bolts

11 - Bolt

- Bolt of dash panel central tube to middle tunnel
- Qty. 2
- Specified torque 20 Nm.

12 - Nut

- Nuts of dash panel central tube to bracket ⇒ [Item 13 \(page 185\)](#)
- Qty. 2
- Specified torque 20 Nm.

13 - Bracket with eccentric

- Bracket of dash panel central tube, driver side, bolted to A-pillar
- Dash panel can be aligned by means of bracket ⇒ [page 181](#)
- Removing and installing ⇒ [page 189](#) .

14 - Driver side deformation element

- Only USA
- Secured to dash panel central tube.
- Removing and installing ⇒ [page 180](#) .

15 - Middle deformation element

- Only USA
- Bolted to dash panel
- Removing and installing ⇒ [page 180](#) .

16 - Bolt

- Bolt for bracket ⇒ [Item 13 \(page 185\)](#) to left A-pillar
- Qty. 3.
- Specified torque 20 Nm.

17 - Dash panel central tube

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

18 - Bolt

- Bolt for bracket ⇒ [Item 7 \(page 184\)](#) to right A-pillar
- Qty. 2
- Specified torque 20 Nm.

3.2 Removing and installing dash panel central tube



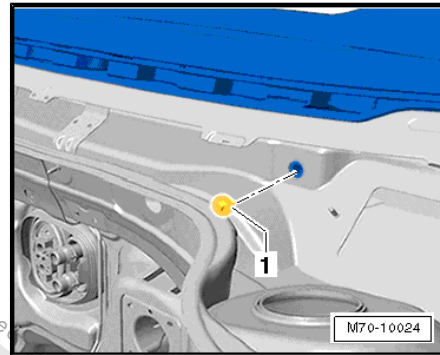
Note

If electrical wires are disconnected or removed and installed, it is useful to make corresponding drawings or photos. This guarantees that everything is re-installed in its original position.

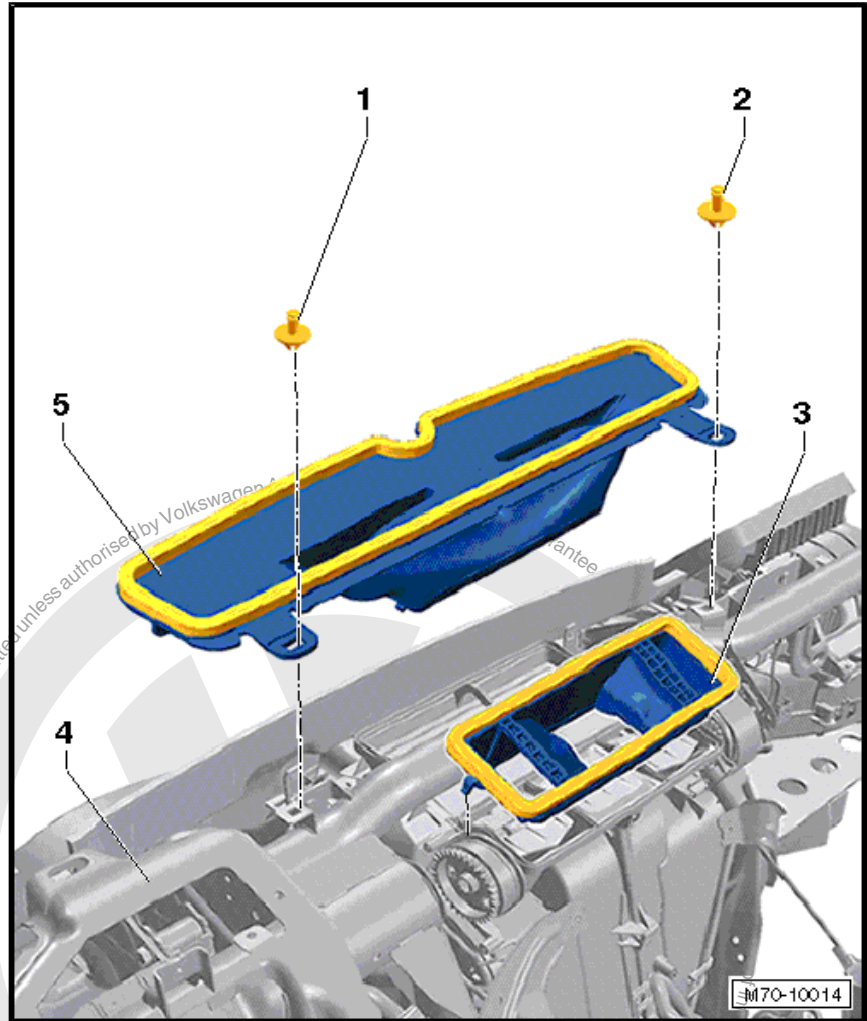


Removing

- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .
- Removing dash panel ⇒ [page 171](#) .
- Remove wiper arms ⇒ Electrical system; Rep. gr. 92 ; Windscreen wiper system; Removing and installing windscreen wiper system; Removing and installing wiper arms .
- Remove plenum chamber cover ⇒ General body repairs, exterior; Rep. gr. 50 ; Plenum chamber cover; Removing plenum chamber cover .
- Remove windscreen wiper motor ⇒ Electrical system; Rep. gr. 92 ; Windscreen wiper system .
- Undo bolt -1- (20 Nm) in plenum chamber.



- Release expander pins -1- and -2- and remove upwards.
- Remove defroster duct -5- from dash panel central tube -4-.
- Remove air distributor -3- from heating and air conditioning unit.

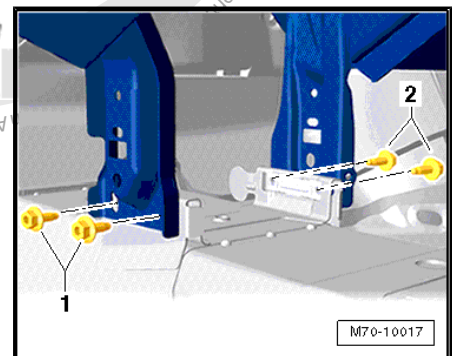


- Detach steering column from cross member. => Running gear, axles, steering; Rep. gr. 48 ; Steering column and steering wheel; Assembly overview, steering column, left-hand drive vehicles .
- Remove bolts -1- and -2- (20 Nm).



Note

In area of nuts -1- and locating pin -3-, use a scribe to mark vertical and horizontal position of cross member -2- in vehicle.

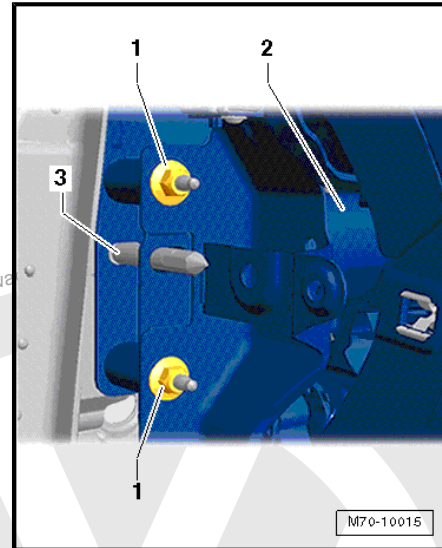




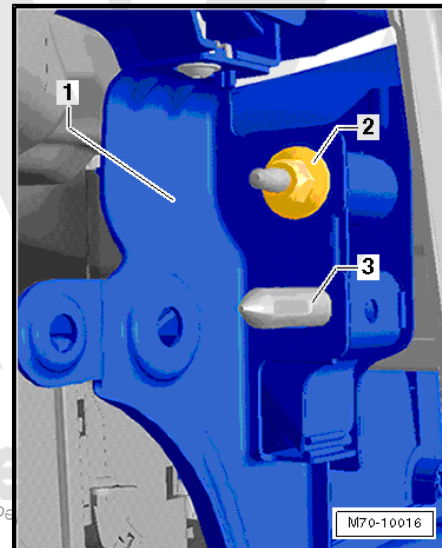
- Undo nuts -1- on driver side (20 Nm).

i Note

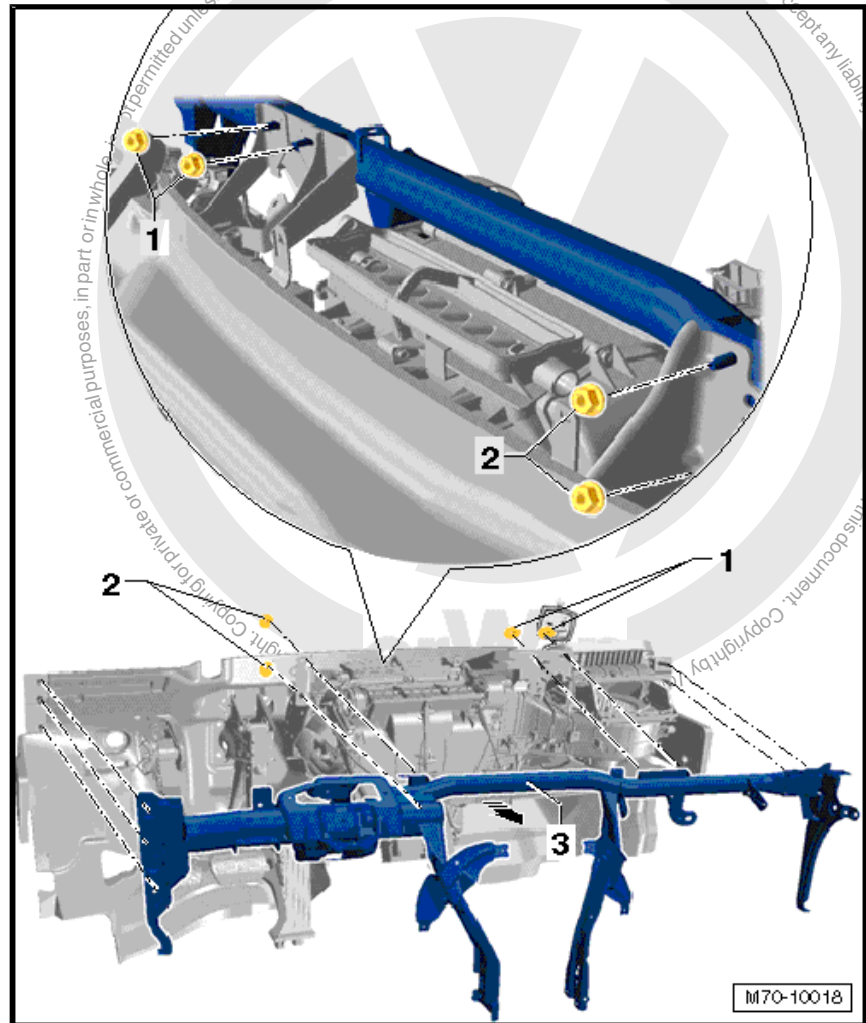
In area of nuts -2- and locating pin-3-, use a scribe to mark vertical and horizontal position of cross member -1- in vehicle.



- Remove nut -2- on front passenger side (20 Nm).



- Release wiring harness fasteners, depending on vehicle equipment level, from cross member.
- Undo nut -1- (9 Nm).
- Undo nut -2- (9 Nm).
- Detach dash panel central tube -3- in -direction of arrow- and pull it a little towards the rear.
- With aid of second mechanic, carefully lift dash panel central tube -3- out of vehicle.



Installing

- Install in reverse order of removal.



Note

- ◆ *Before bolting dash panel cross member in place, align it using marks made during removal.*
- ◆ *Before installing, check all fasteners for damage and renew if necessary.*

3.3 Removing and installing bracket for dash panel central tube, LHD vehicles

Removing

- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .
- Remove dash panel central tube ⇒ [page 185](#) .

Bracket on driver side:

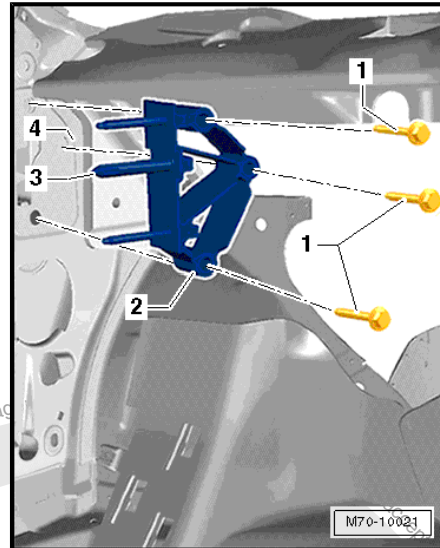
- Unscrew bolts -1- (20 Nm).



- Remove driver side bracket -2- from inside of A-pillar -4-.

Bracket on front passenger side:

- Unscrew bolts -1- (20 Nm).



- Remove front passenger side bracket -4- from inside of A-pillar -2-.

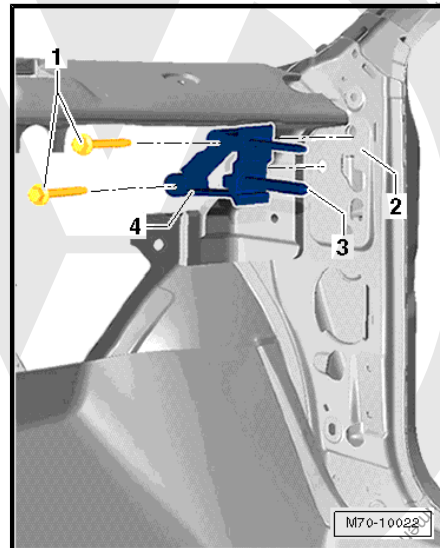
Installing

- Install in reverse order of removal.



Note

Eccentric -3- can be used to adjust the height of the dash panel retroactively (± 2 mm).





4 Interior trims

- ⇒ ["4.1 Removing and installing upper A-pillar trim", page 191](#)
- ⇒ ["4.2 Removing and installing centre A-pillar trim", page 192](#)
- ⇒ ["4.3 Removing and installing lower A-pillar trim on driver side", page 194](#)
- ⇒ ["4.4 Removing and installing lower A-pillar trim on front passenger side", page 195](#)
- ⇒ ["4.5 Releasing and securing upper B-pillar trim", page 197](#)
- ⇒ ["4.6 Removing and installing upper B-pillar trim", page 199](#)
- ⇒ ["4.7 Removing and installing lower B-pillar trim", page 202](#)
- ⇒ ["4.8 Removing and installing C-pillar trim", page 204](#)
- ⇒ ["4.9 Removing and installing sill moulding", page 206](#)
- ⇒ ["4.10 Removing and installing wheel housing trim for vehicles with side airbag", page 208](#)
- ⇒ ["4.11 Removing and installing wheel housing trim for vehicles without side airbag", page 209](#)
- ⇒ ["4.12 Removing and installing rear shelf", page 211](#)
- ⇒ ["4.13 Removing and installing rear shelf USA", page 213](#)

4.1 Removing and installing upper A-pillar trim

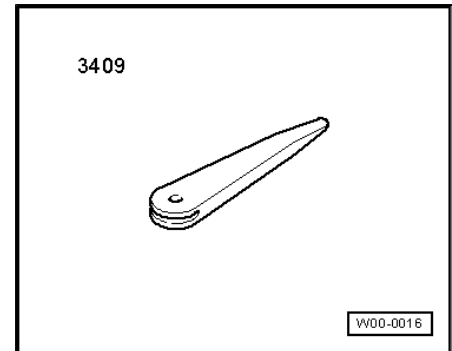


Note

Removal and installation are described for the left vehicle side.
Follow same instructions for the right side as appropriate.

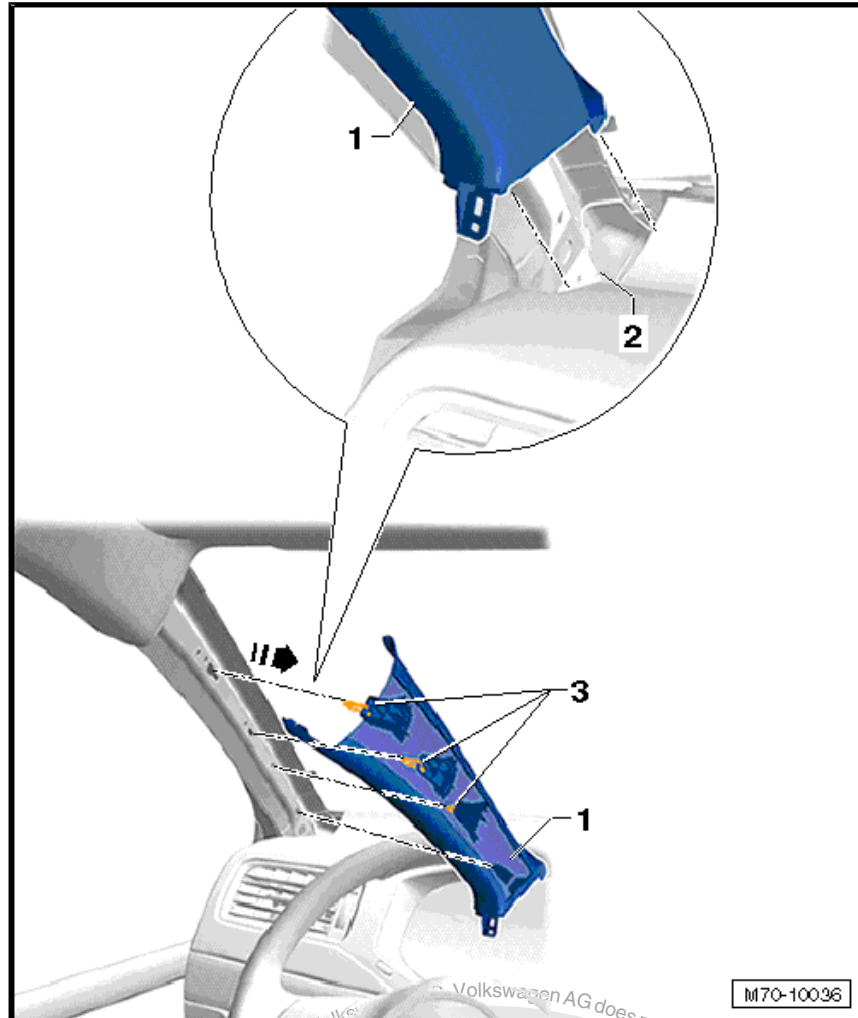
Special tools and workshop equipment required

- ◆ Removal wedge -3409-



Removing

- Remove dash panel end covers ⇒ [page 163](#) .
- Remove centre A-pillar trim ⇒ [page 192](#) .
- Release trim -1- from door seal beading.
- Pull trim -1- in area of retaining clips -3- out of mountings -arrow-.
- Pull trim -1- out of front dash panel mounting -2-.



Installing

- Install in reverse order of removal.

Note

- ◆ Before installing, check all fasteners for damage and renew if necessary.
- ◆ Following installation, ensure that trim is positioned in door seal beading.

4.2 Removing and installing centre A-pillar trim

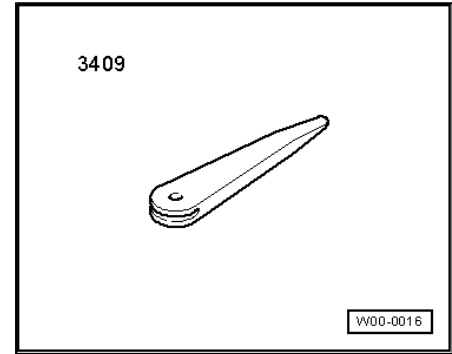
Note

Removal and installation are described for the left vehicle side.
Follow same instructions for the right side as appropriate.

Special tools and workshop equipment required

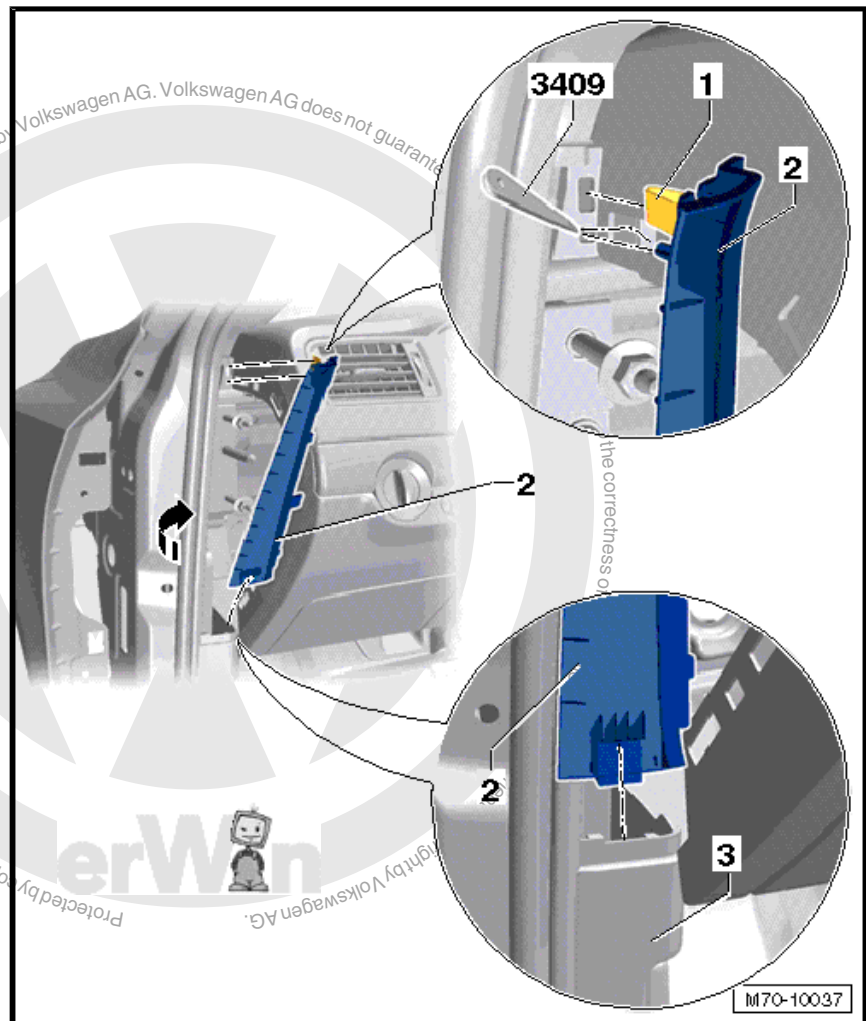


◆ Removal wedge -3409-



Removing

- Remove dash panel end covers ⇒ [page 163](#) .
- Release trim -2- from door seal beading.
- Release retaining clip -1-, using removal wedge -3409- .
- Pull trim-2- upwards out of lower A-pillar trim -3- and remove in -direction of arrow-.





Installing

- Install in reverse order of removal.



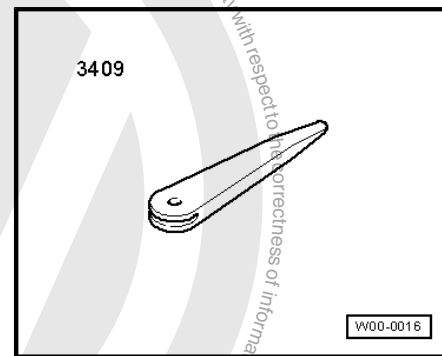
Note

- ◆ *Before installing, check all fasteners for damage and renew if necessary.*
- ◆ *Following installation, ensure that trim is positioned in door seal beading.*

4.3 Removing and installing lower A-pillar trim on driver side

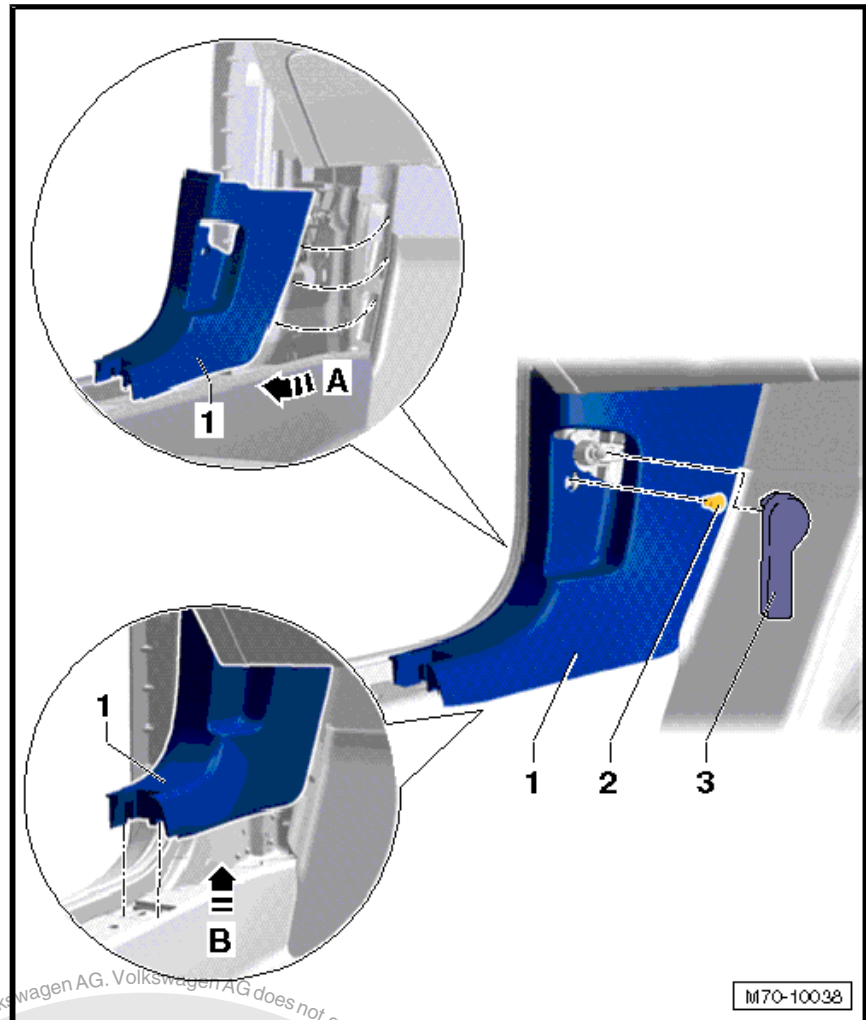
Special tools and workshop equipment required

- ◆ Removal wedge -3409-



Removing

- Release sill panel moulding from body in area of overlap to lower trim of A-pillar ⇒ [page 206](#) .
- Remove dash panel end covers ⇒ [page 163](#) .
- Remove centre A-pillar trim ⇒ [page 192](#) .
- Remove bonnet operating lever -3- ⇒ General body repairs, exterior; Rep. gr. 55 ; Bonnet .
- Remove clip -2-.
- Detach trim -1- from body -direction of arrow B-. While doing so, detach trim from door seal beading.
- Remove trim -1- from mounting -direction of arrow A-.



Installing

- Install in reverse order of removal.



Note

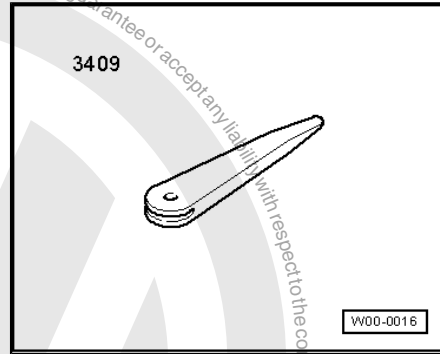
- ◆ Before installing, check all fasteners for damage and renew if necessary.
- ◆ Following installation, ensure that trim is positioned in door seal beading.

4.4 Removing and installing lower A-pillar trim on front passenger side

Special tools and workshop equipment required

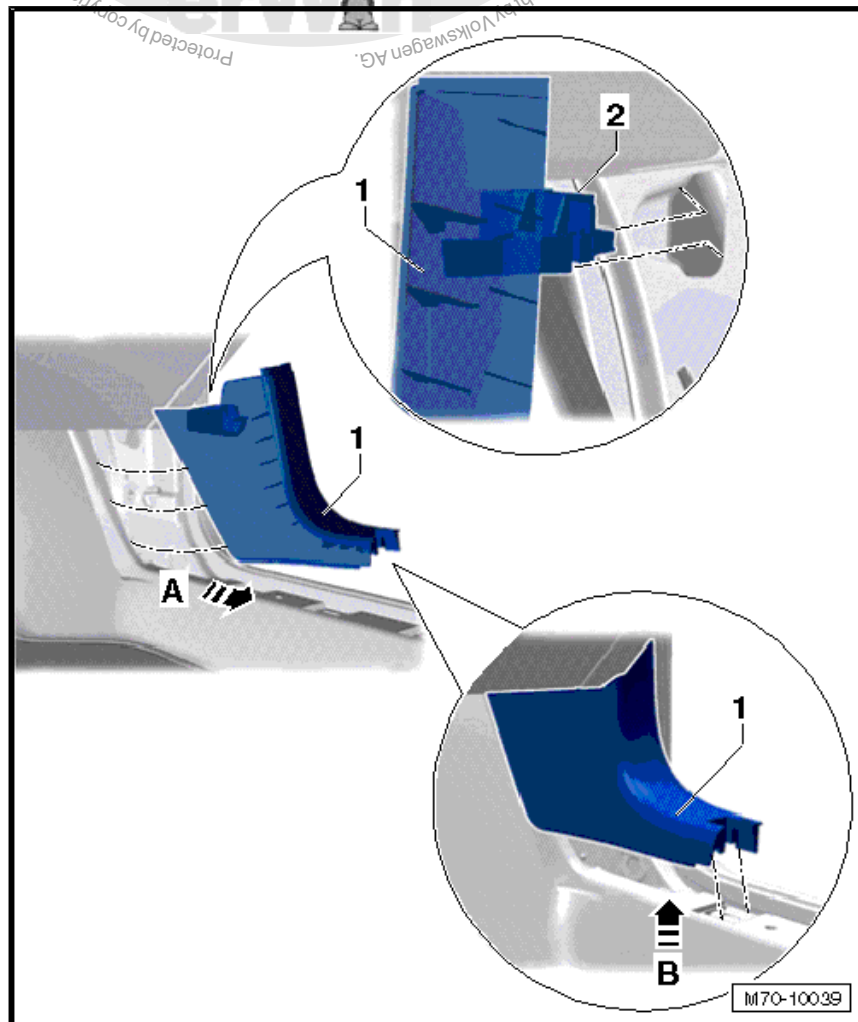


◆ Removal wedge -3409-



Removing

- Release sill panel moulding from body in area of overlap to lower trim of A-pillar ⇒ [page 206](#) .
- Remove dash panel end covers ⇒ [page 163](#) .
- Remove centre A-pillar trim ⇒ [page 192](#) .
- Detach trim -1- from body -direction of arrow B-. While doing so, detach trim from door seal beading.
- Remove trim -1- from mounting -2- in -direction of arrow A-





Installing

- Install in reverse order of removal.



Note

- ◆ *Before installing, check all fasteners for damage and renew if necessary.*
- ◆ *Following installation, ensure that trim is positioned in door seal beading.*

4.5 Releasing and securing upper B-pillar trim

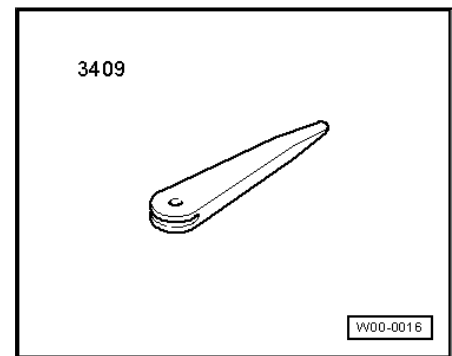


Note

Releasing and securing of B-pillar trim are described for the left side of the vehicle. Releasing and securing on the right side is similar.

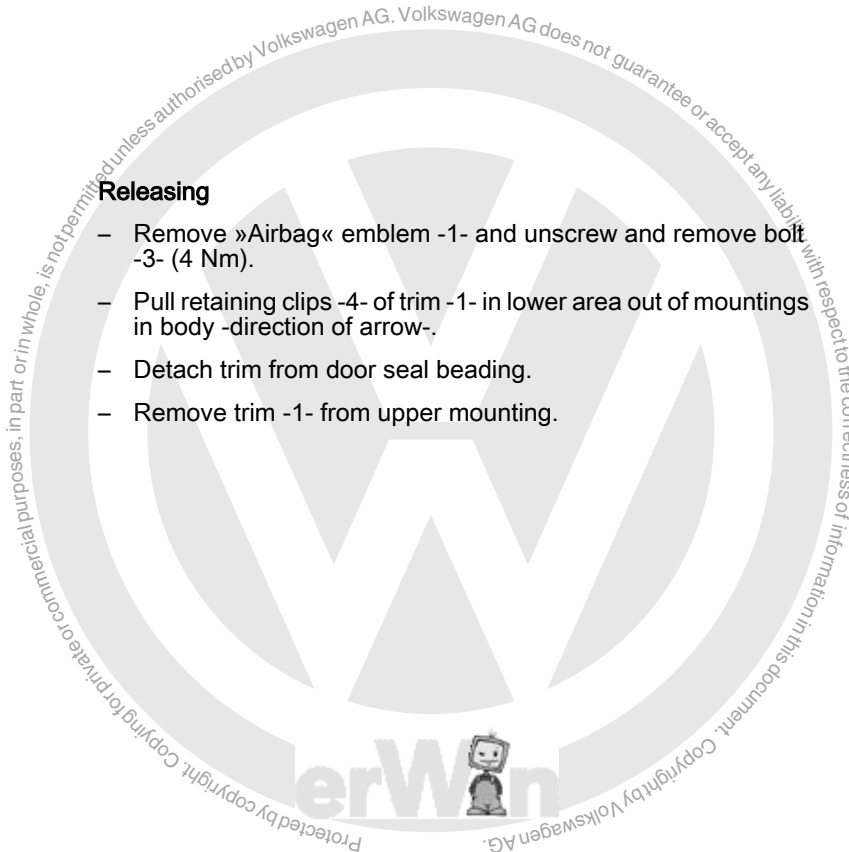
Special tools and workshop equipment required

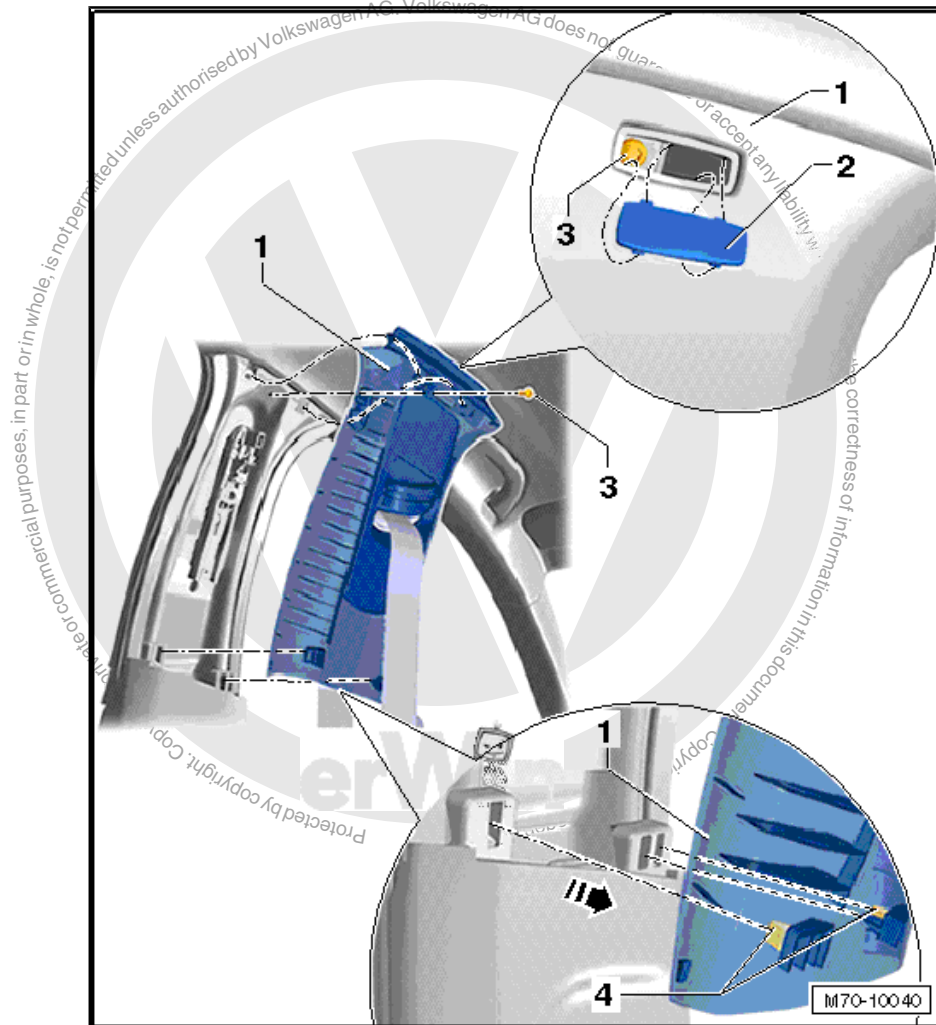
- ◆ Removal wedge -3409-



Releasing

- Remove »Airbag« emblem -1- and unscrew and remove bolt -3- (4 Nm).
- Pull retaining clips -4- of trim -1- in lower area out of mountings in body -direction of arrow-.
- Detach trim from door seal beading.
- Remove trim -1- from upper mounting.



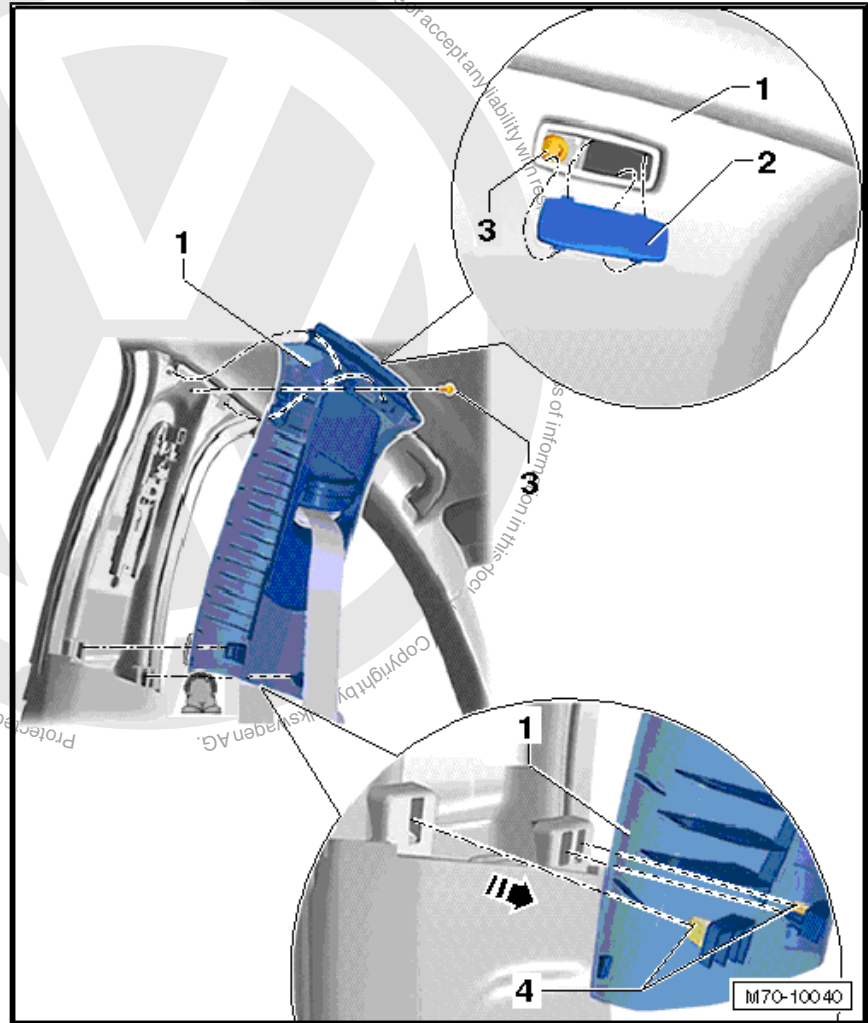


Securing



Note

- ◆ *Before installing, check all fasteners for damage and renew if necessary.*
 - ◆ *When installing, the belt adjuster slide and the button of the trim must be in the same position.*
 - ◆ *The »Airbag« emblem -1- must be replaced.*
 - ◆ *Following installation, ensure that trim is positioned in door seal beading.*
- Install in reverse order of removal.



4.6 Removing and installing upper B-pillar trim



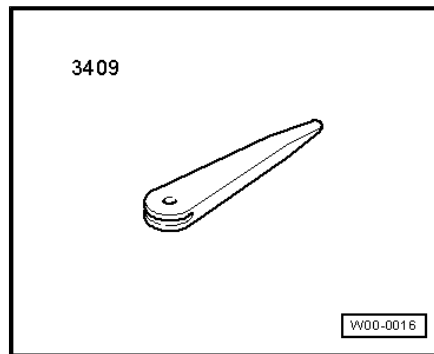
Note

*Removal and installation are described for the left vehicle side.
Follow same instructions for the right side as appropriate.*

Special tools and workshop equipment required

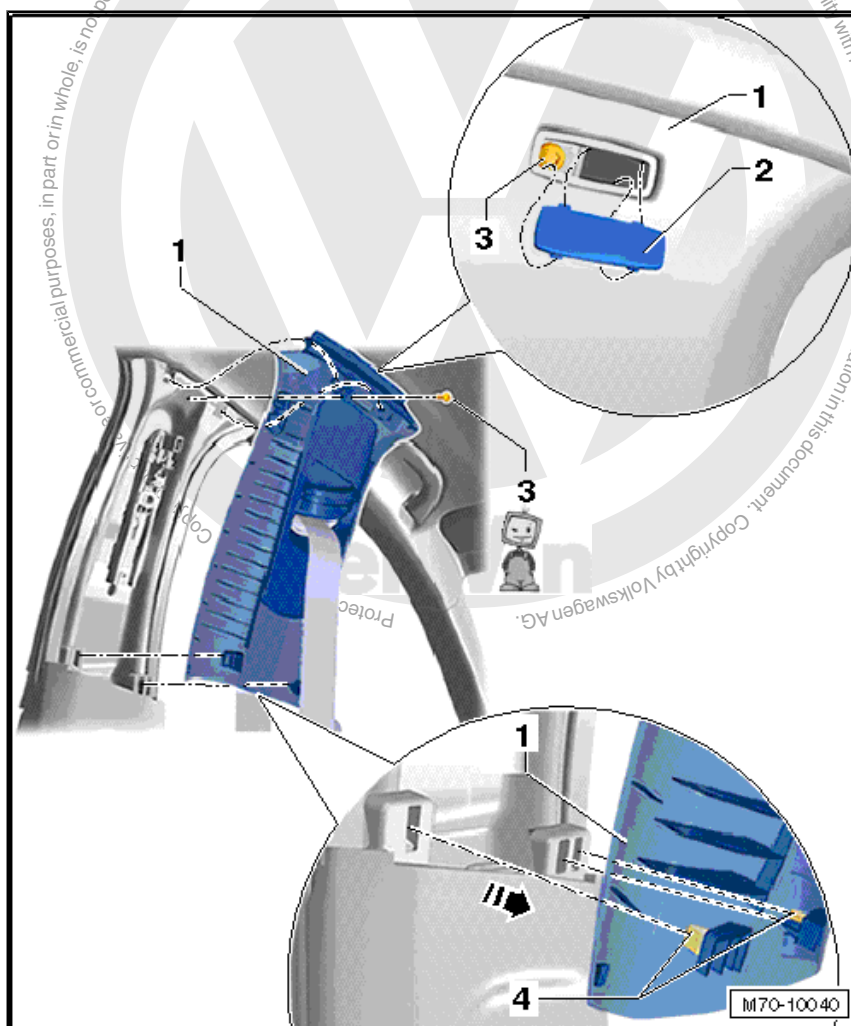


◆ Removal wedge -3409-



Removing

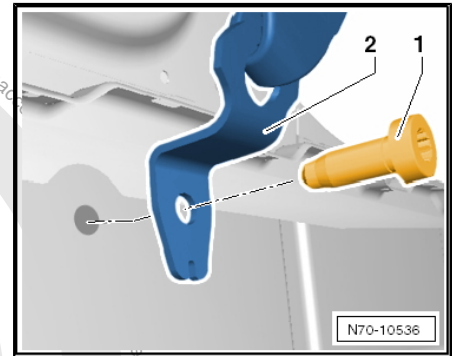
- Remove »Airbag« emblem -1- and unscrew and remove bolt -3- (4 Nm).
- Pull retaining clips -4- of trim -1- in lower area out of mountings in body -direction of arrow-.
- Detach trim from door seal beading.
- Remove trim -1- from upper mounting.





- Remove bolt -1- (40 Nm).
- Thread belt end anchor together with seat belt -2- through the hole in the trim.

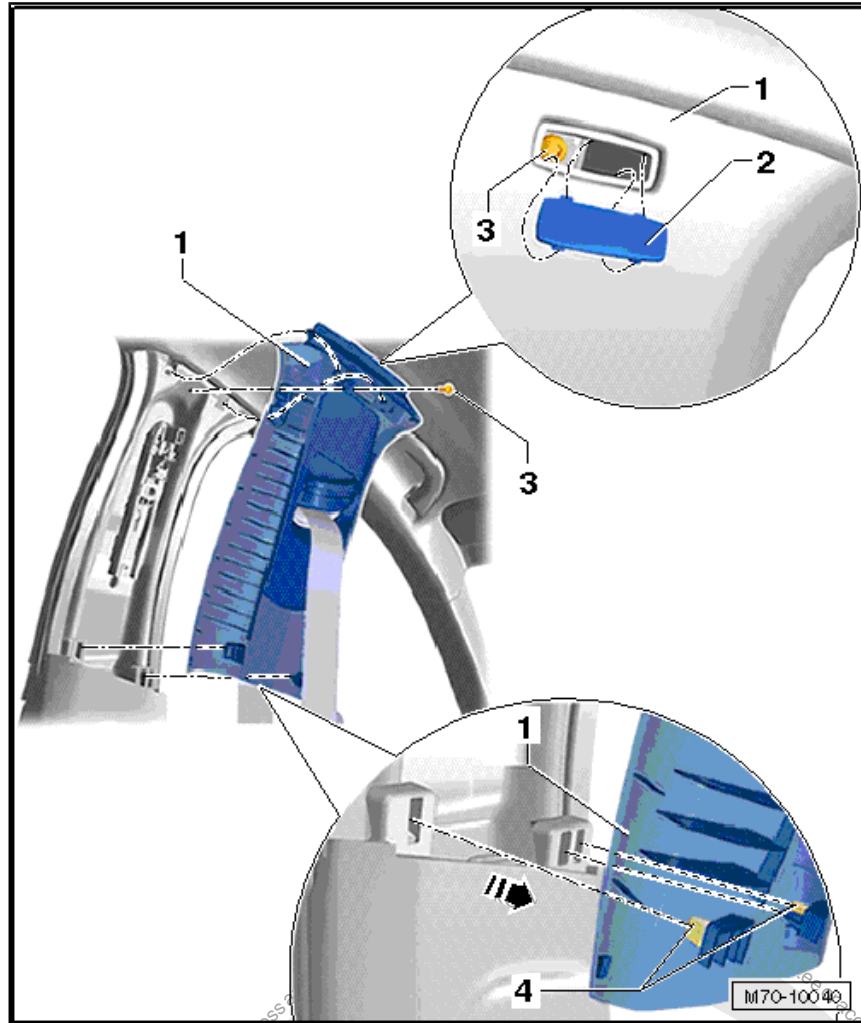
Installing



Note

- ◆ *Before installing, check all fasteners for damage and renew if necessary.*
 - ◆ *When installing, the belt adjuster slide and the button of the trim must be in the same position.*
 - ◆ *The »Airbag« emblem -1- must be replaced.*
 - ◆ *Following installation, ensure that trim is positioned in door seal beading.*
- Install in reverse order of removal.





4.7 Removing and installing lower B-pillar trim



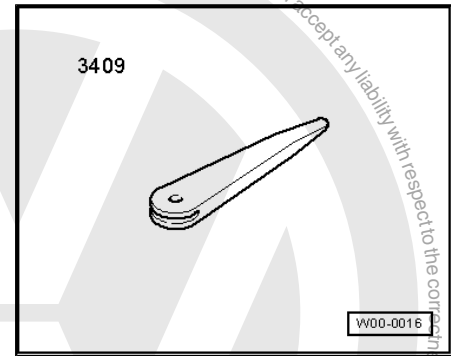
Note

Removal and installation are described for the left vehicle side.
Follow same instructions for the right side as appropriate.

Special tools and workshop equipment required

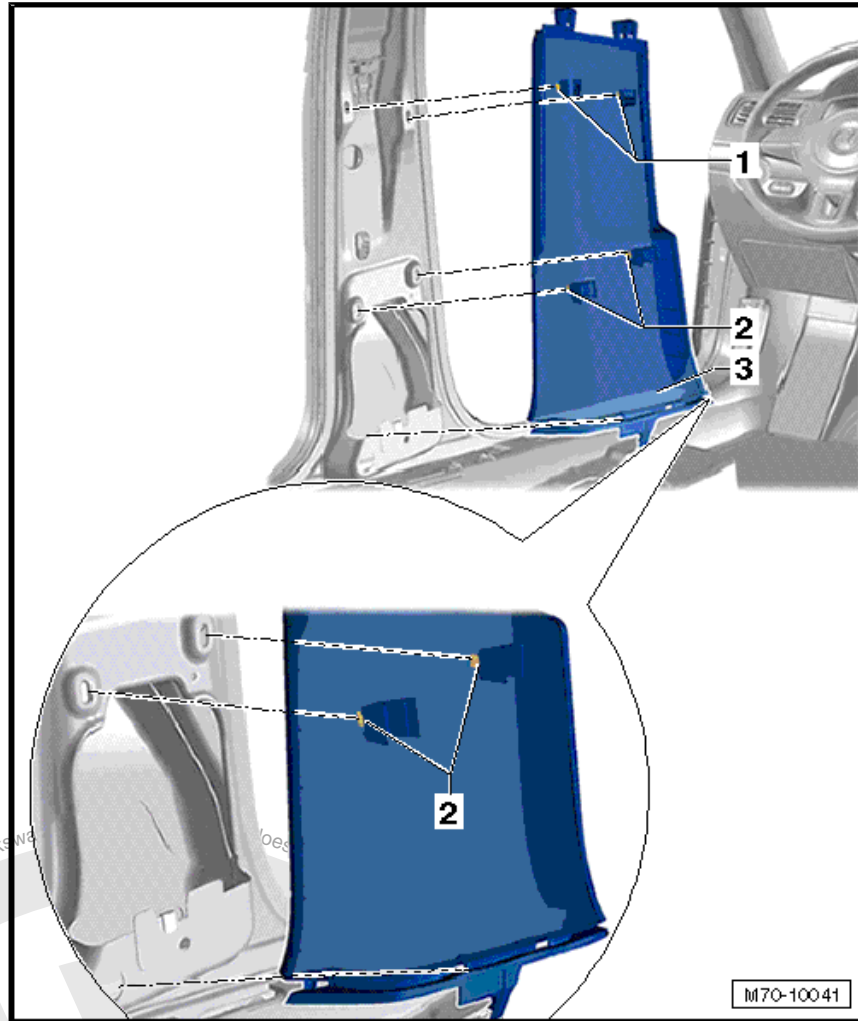


◆ Removal wedge -3409-



Removing

- Switch off ignition if vehicle has interior monitoring system.
- Remove sill strip ⇒ [page 206](#) .
- Detach upper B-pillar trim ⇒ [page 197](#) .
- Pull retaining clips -1- and -2- of trim -2- out of mountings in body.
- Release trim -3- from door seal beading.
- In the case of vehicles with interior monitoring, disconnect wiring harness from interior monitoring switch -E183- .



Installing

- Install in reverse order of removal.



Note

- ◆ *Before installing, check all fasteners for damage and renew if necessary.*
- ◆ *Following installation, ensure that trim is positioned in door seal beading.*

4.8 Removing and installing C-pillar trim



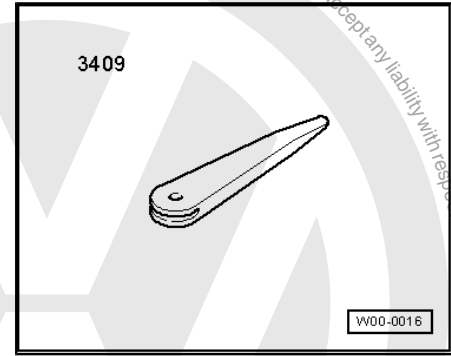
Note

Removal and installation are described for the left vehicle side. Follow same instructions for the right side as appropriate.

Special tools and workshop equipment required

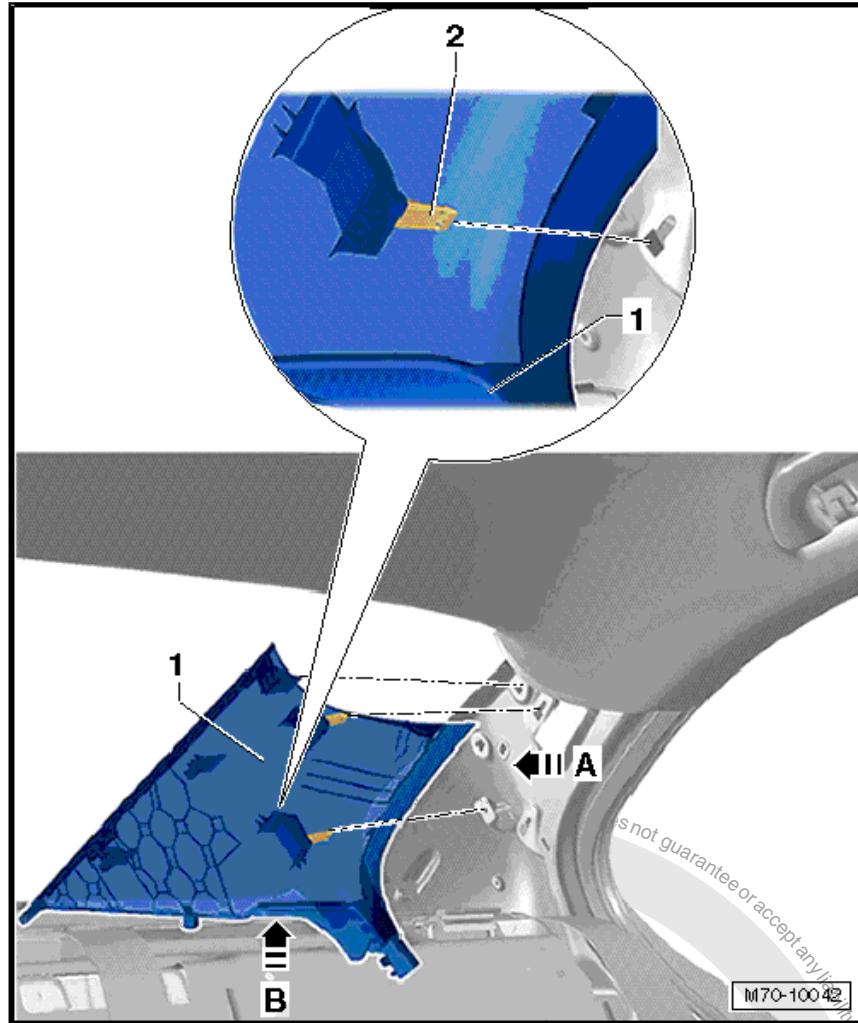


◆ Removal wedge -3409-



Removing

- Remove wheel housing trim:
- ◆ Remove wheel housing trim without side airbag
⇒ [page 209](#) .
- ◆ Remove wheel housing trim with side airbag ⇒ [page 208](#) .
- Remove retaining clips -2- of trim -1- out of mountings in
-direction of arrow A-. While doing so, remove trim from door
seal beading.
- Pull trim -1- out of rear shelf upwards in
-direction of arrow B-.



Installing

- Install in reverse order of removal.



Note

- ◆ Before installing, check all fasteners for damage and renew if necessary.
- ◆ Following installation, ensure that trim is positioned in door seal beading.

4.9 Removing and installing sill moulding



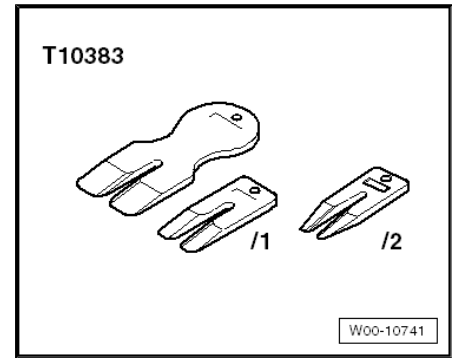
Note

Removal and installation are described for the left vehicle side.
Follow same instructions for the right side as appropriate.

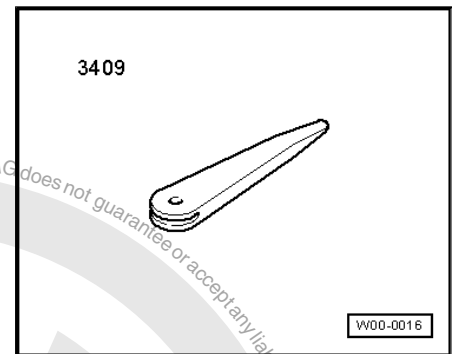
Special tools and workshop equipment required



◆ Wedges -T10383-

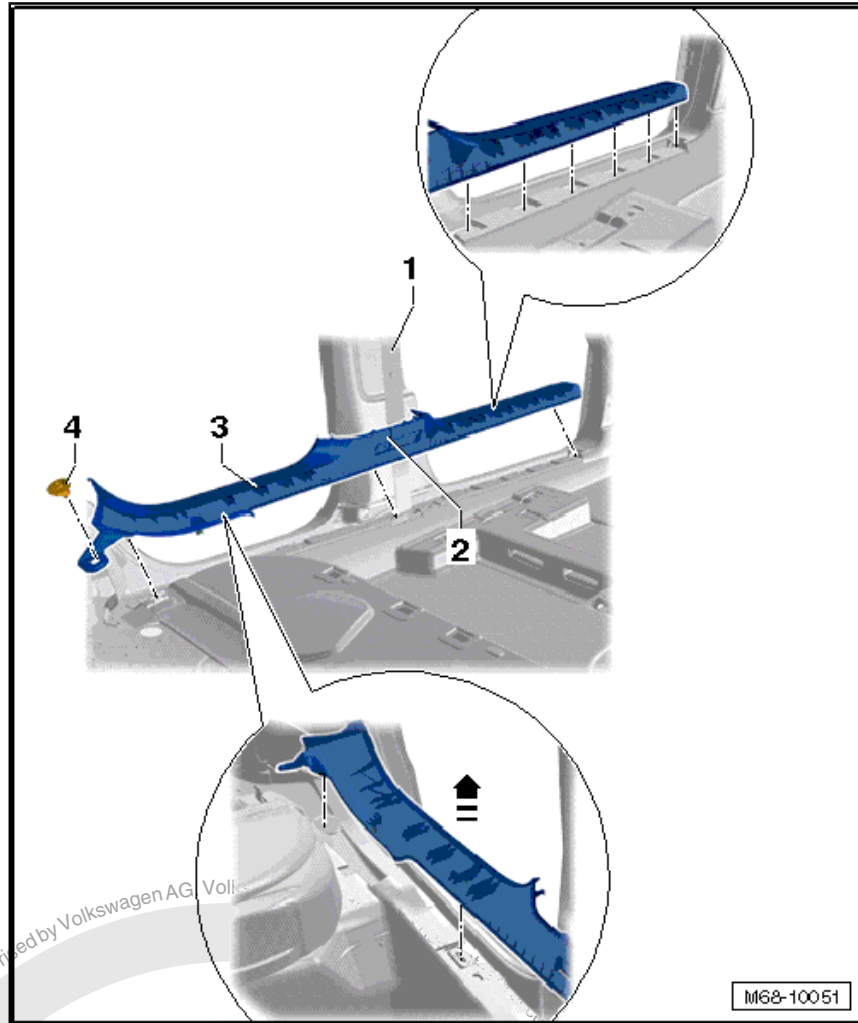


◆ Removal wedge -3409-



Removing

- Remove wheel housing trim:
- ◆ Remove wheel housing trim without side airbag
⇒ [page 208](#) .
- ◆ Remove wheel housing trim with side airbag ⇒ [page 209](#) .
- Remove nut -4-.
- Pull sill panel moulding -3- out of front side member and beading of door seal.
- Remove guides -2- of sill panel moulding -3- out of lower B-pillar trim.
- Pull out sill panel moulding -3- from rear side member and beading of door seal.
- Thread seat belt -1- through opening in sill panel moulding -3-.



Installing

Install in reverse order of removal.



Note

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

4.10 Removing and installing wheel housing trim for vehicles with side airbag



Note

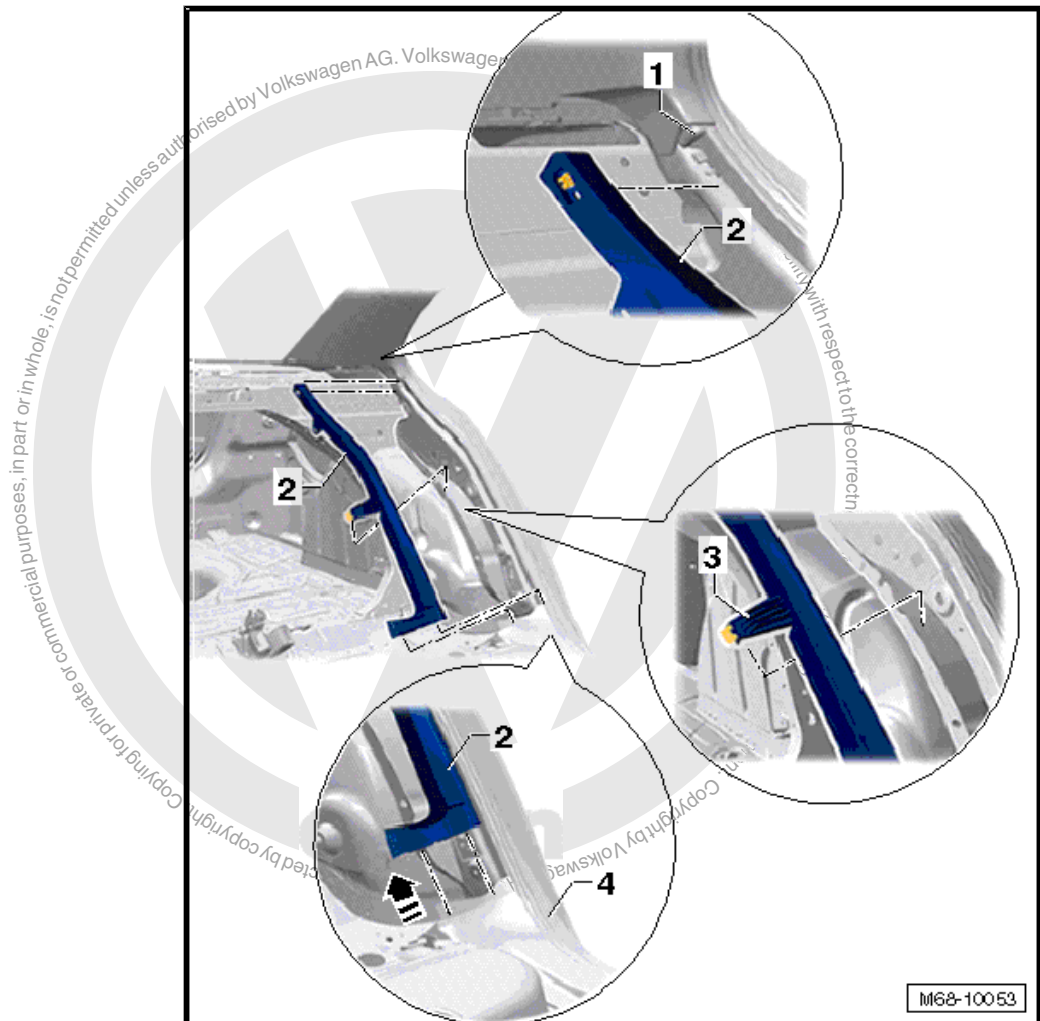
Removal and installation are described for the left vehicle side. Follow same instructions for the right side as appropriate.

Removing

- Remove side padding ⇒ [page 275](#).
- Release wheel housing trim -2- from fasteners of C-pillar trim -1-.



- Release clips -3- from body flange.
- Pull wheel housing trim -2- out of mounts in sill moulding -4- in direction of -arrow-.



Installing

Install in reverse order of removal.

Note

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

4.11 Removing and installing wheel housing trim for vehicles without side airbag

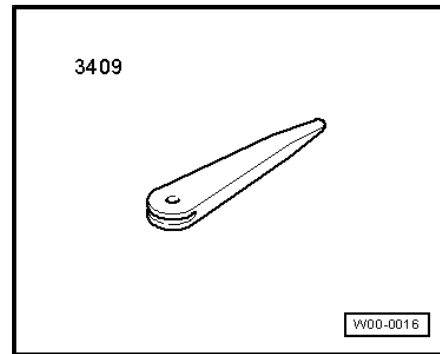
Note

Removal and installation are described for the left vehicle side. Follow same instructions for the right side as appropriate.



Special tools and workshop equipment required

- ◆ Removal wedge -3409-

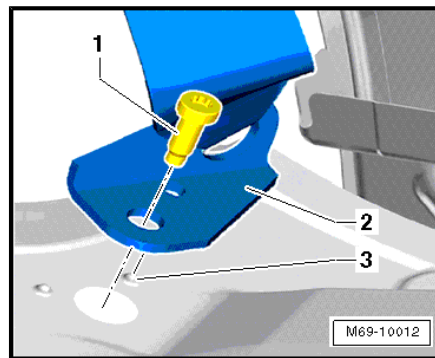


Removing

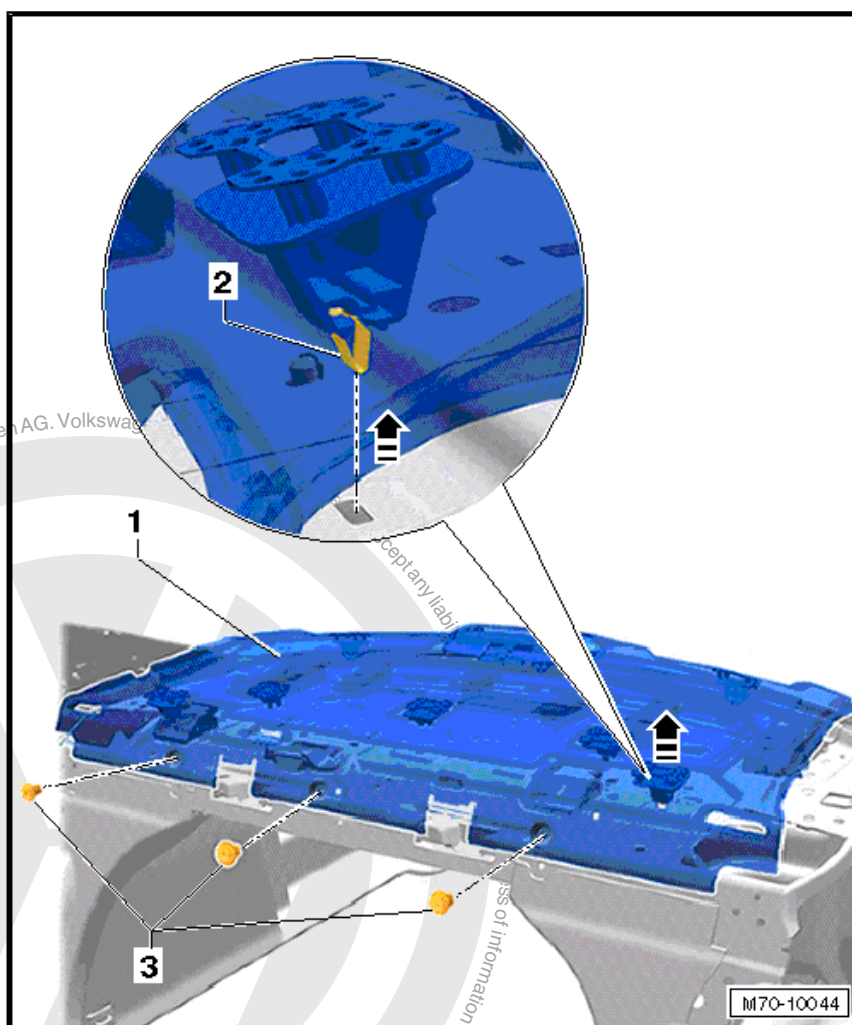
- Remove bench seat ⇒ [page 270](#).
- Fold backrest forwards.
- Remove nut -6- (8 Nm).
- Open cover cap and unscrew bolt -2- (2.5 Nm).
- Detach wheel housing trim -1- from fastener in C-pillar trim -3-.
- Release clips -4- from body flange.
- Pull wheel housing trim -1- out of mounts in sill moulding -5- in direction of -arrow-.



- Remove belt end anchor -2- from fastening buckle -3- on both sides



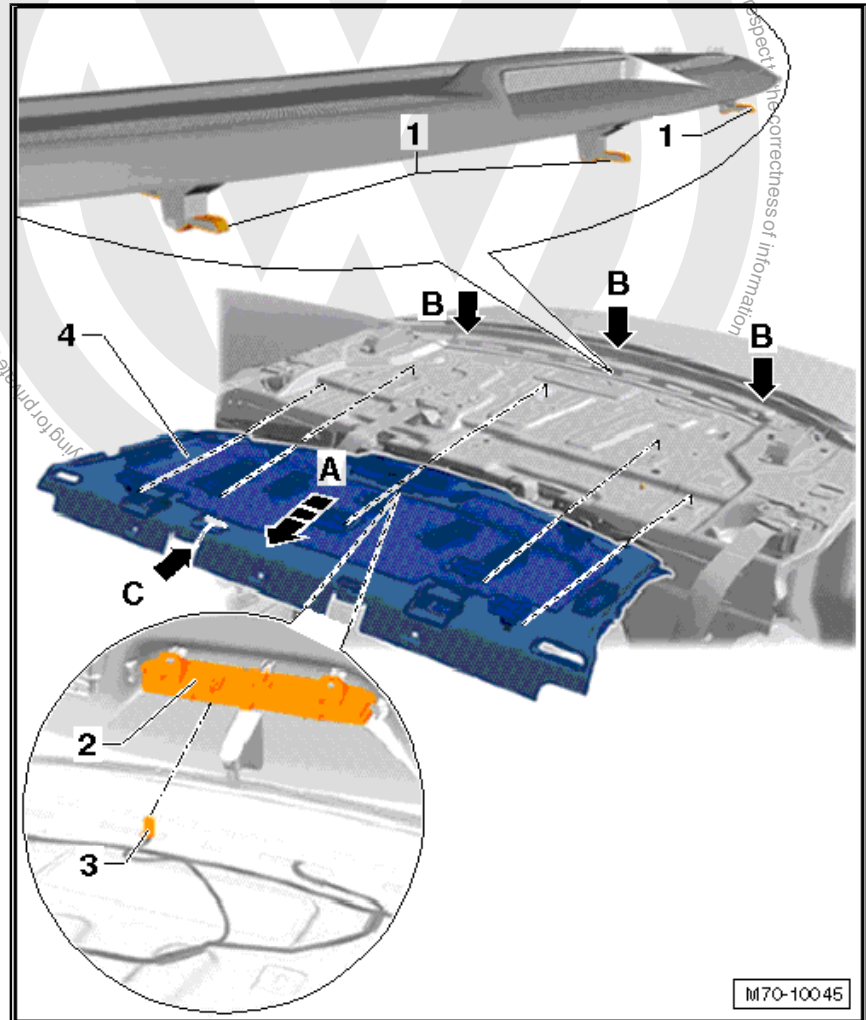
- Remove retaining clips -3-.
- Unclip retaining clips -2-. To do this, pull front area of rear shelf -1- upwards in -direction of arrow-.



- Pull rear shelf -4- in direction of travel -arrow A- until guide pins -1- emerge from guides in body -arrow B-.
- Detach connector -3- of bulb for high-level brake light -M25- -2-.



- Take outer left and right belt end anchors out of side belt guides of rear shelf.
- Take middle seat belt out of cut-out -arrow C- of rear shelf.
- Remove rear shelf -4- from vehicle.



Installing

- Install in reverse order of removal.



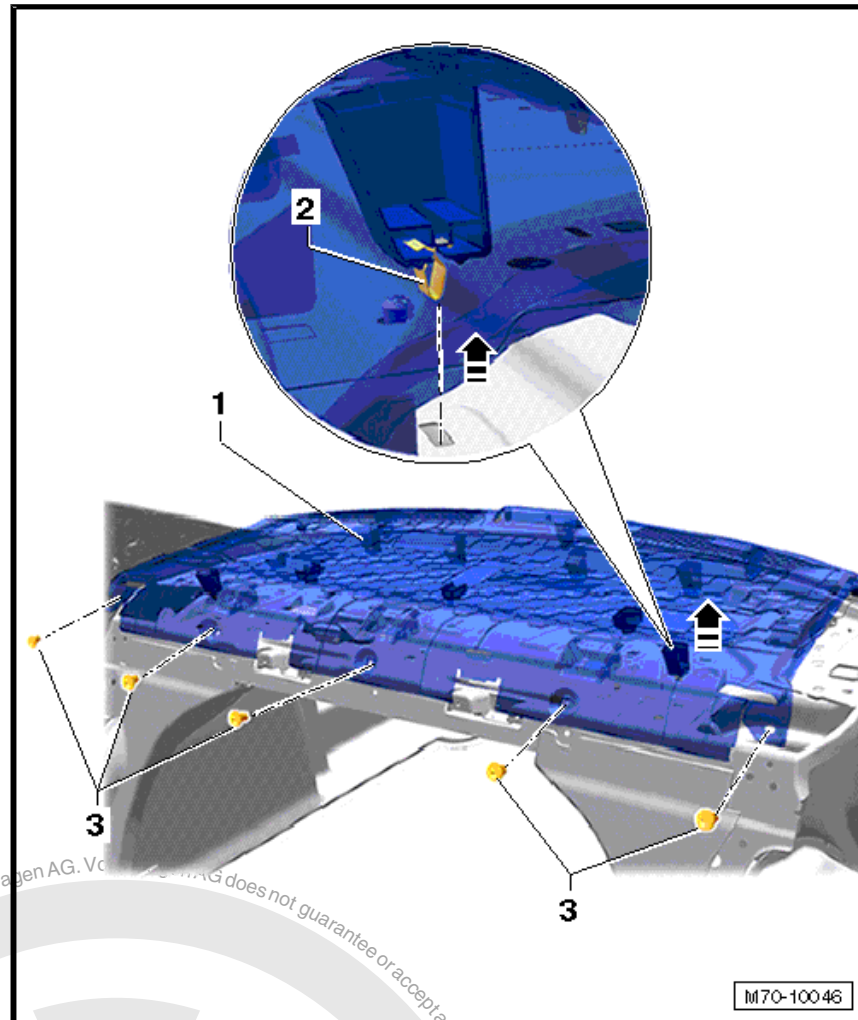
Note

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

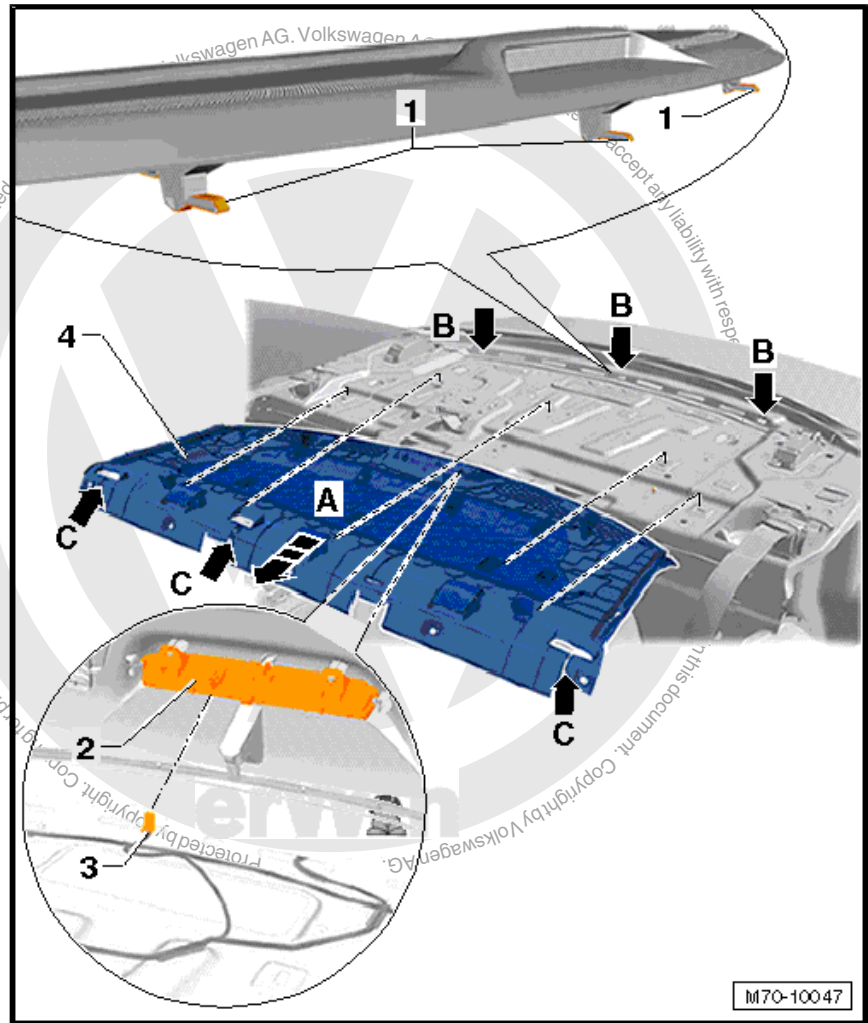
4.13 Removing and installing rear shelf USA

Removing

- Remove left and right C-pillar trim => [page 204](#) .
- Remove retaining clips -3-.
- Unclip retaining clips -2-. To do this, pull front area of rear shelf -1- upwards in -direction of arrow-.



- Pull rear shelf -4- in direction of travel -arrow A- until guide pins -1- emerge from guides in body -arrow B-.
- Detach connector -3- of bulb for high-level brake light -M25-2-.
- Guide outer left, right and middle seat belts out of cut-outs arrow C- in rear shelf.
- Remove rear shelf -4- from vehicle.



Installing

- Install in reverse order of removal.



Note

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



5 Luggage compartment trims

⇒ [“5.1 Removing and installing luggage compartment floor covering”, page 216](#)

⇒ [“5.2 Removing and installing luggage compartment floor covering, hybrid vehicles”, page 217](#)

⇒ [“5.3 Removing and installing rear panel trim”, page 218](#)

⇒ [“5.4 Removing and installing high-voltage battery cover, hybrid vehicles”, page 220](#)

⇒ [“5.5 Removing and installing side panel trim in luggage compartment”, page 222](#)

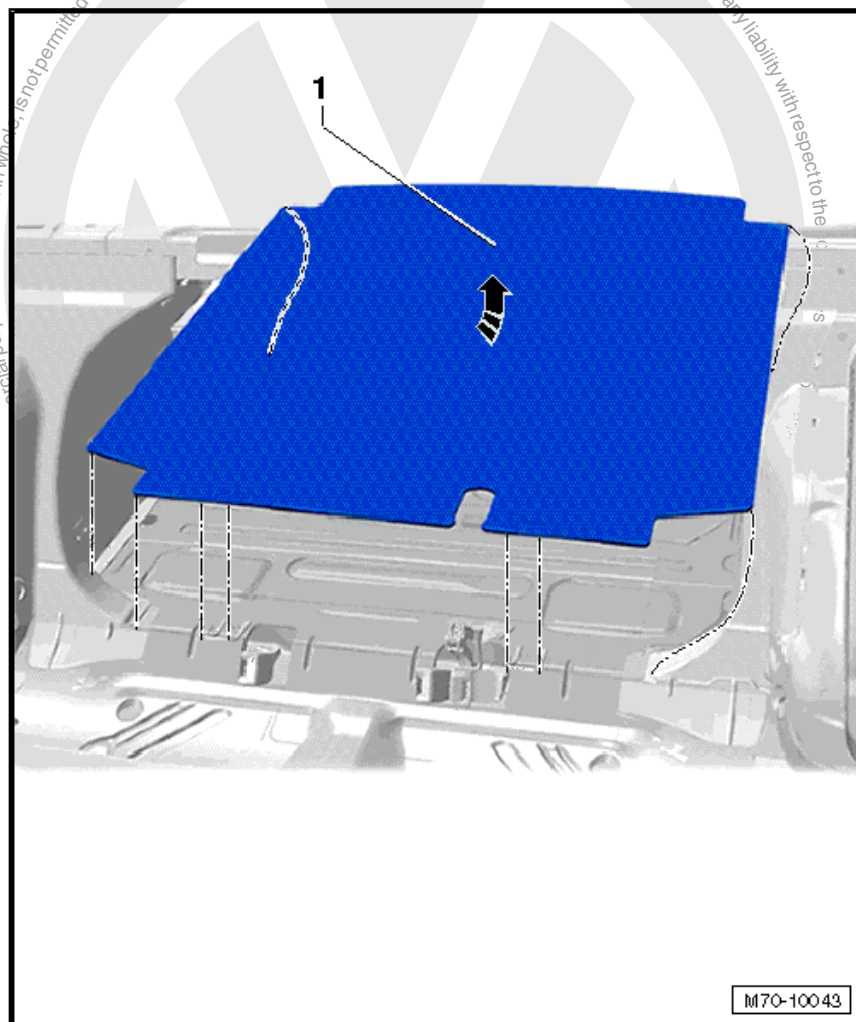
⇒ [“5.6 Removing and installing side panel trim in luggage compartment, hybrid vehicles”, page 224](#)

⇒ [“5.7 Removing and installing rear lid trim”, page 227](#)

5.1 Removing and installing luggage compartment floor covering

Removing

- Remove bench seat ⇒ [page 270](#) .
- Release backrest and fold forwards.
- Pull luggage compartment floor covering -1- out of luggage compartment in -direction of arrow-.



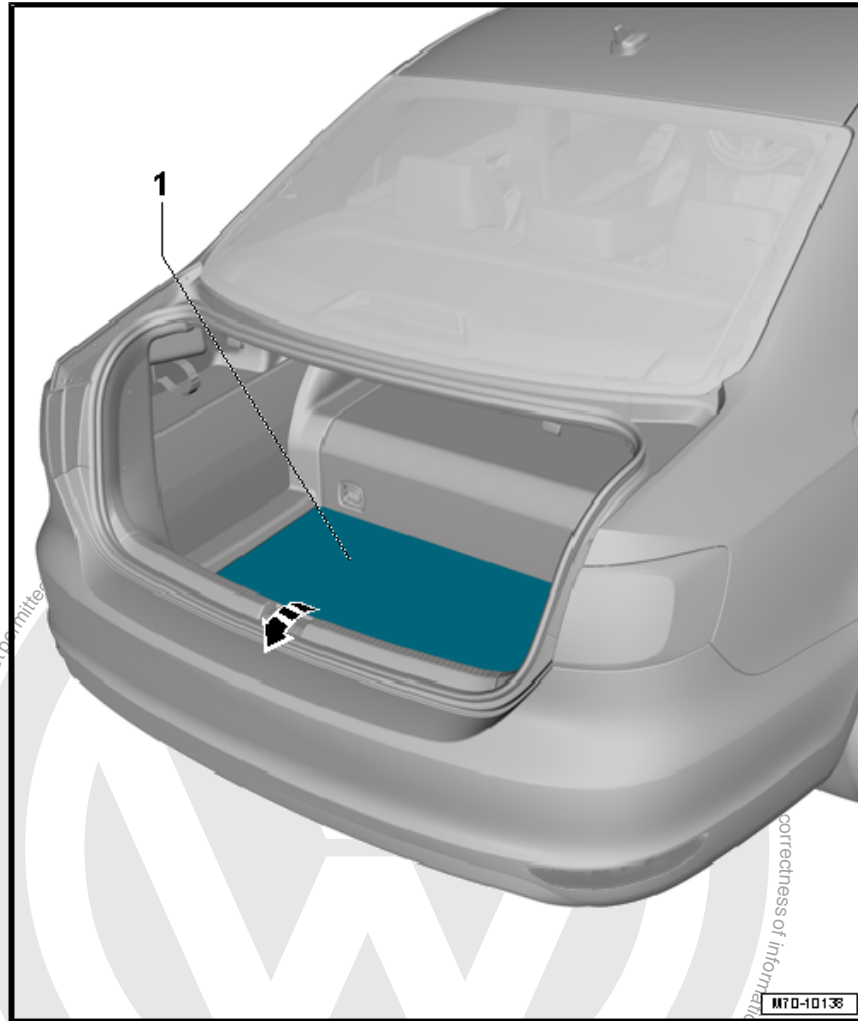
Installing

- Install in reverse order of removal.

5.2 Removing and installing luggage compartment floor covering, hybrid vehicles

Removing

- Remove luggage compartment floor covering -1- from luggage compartment in -direction of arrow-.



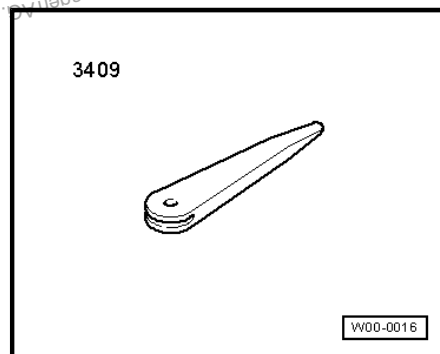
Installing

- Install in reverse order of removal.

5.3 Removing and installing rear panel trim

Special tools and workshop equipment required

- ◆ Removal wedge -3409-



Removing

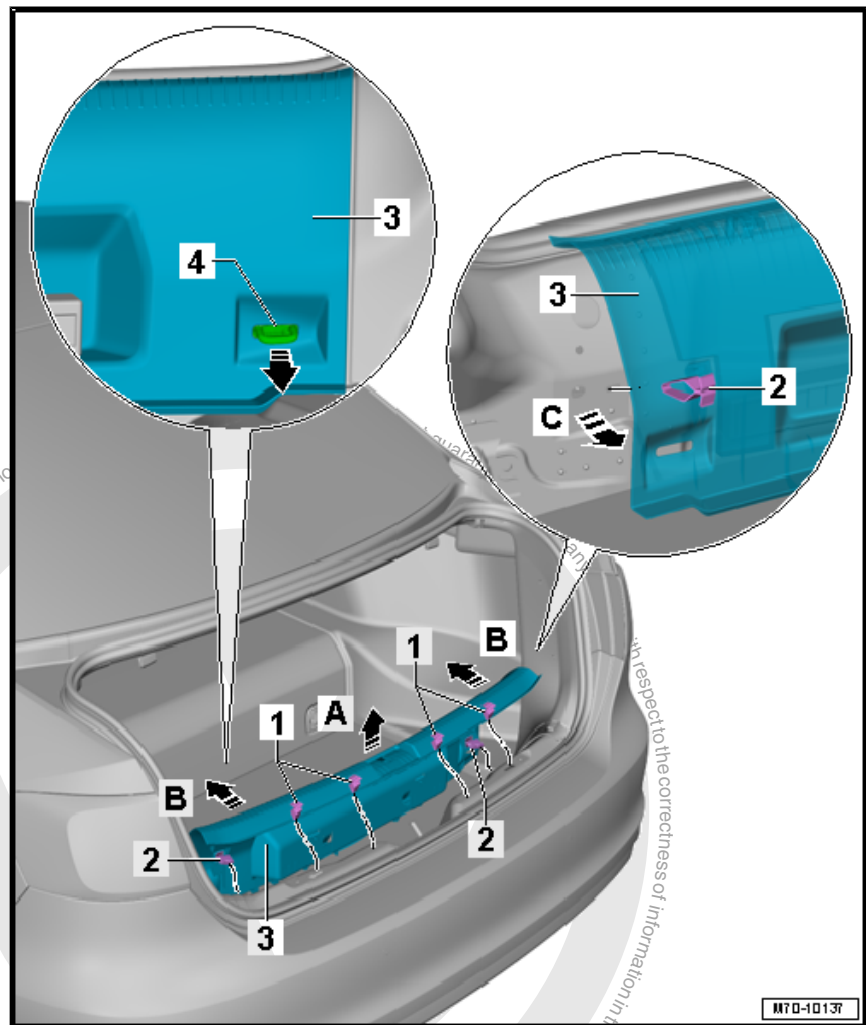
- Pull up luggage compartment floor covering and place a support under it.



i Note

In case of hybrid vehicles remove luggage compartment floor covering => [page 217](#) .

- Release left and right retaining clips -2- in -direction of arrow C- using removing wedge -3409- .
- Guide rear panel trim -3- in -direction of arrow- out of lashing eye -4-.
- Pull rear panel trim -3- upwards in -direction of arrow A-. Release retaining clips -1-, using removing wedge -3409- .
- Remove rear panel trim -3- from lock carrier in -direction of arrow B-.



Installing

- Install in reverse order of removal.



Note

- ◆ *Before installing, check all fasteners for damage and renew if necessary.*
- ◆ *Following installation, ensure that lock carrier cover is positioned in rear lid seal beading.*

5.4 Removing and installing high-voltage battery cover, hybrid vehicles

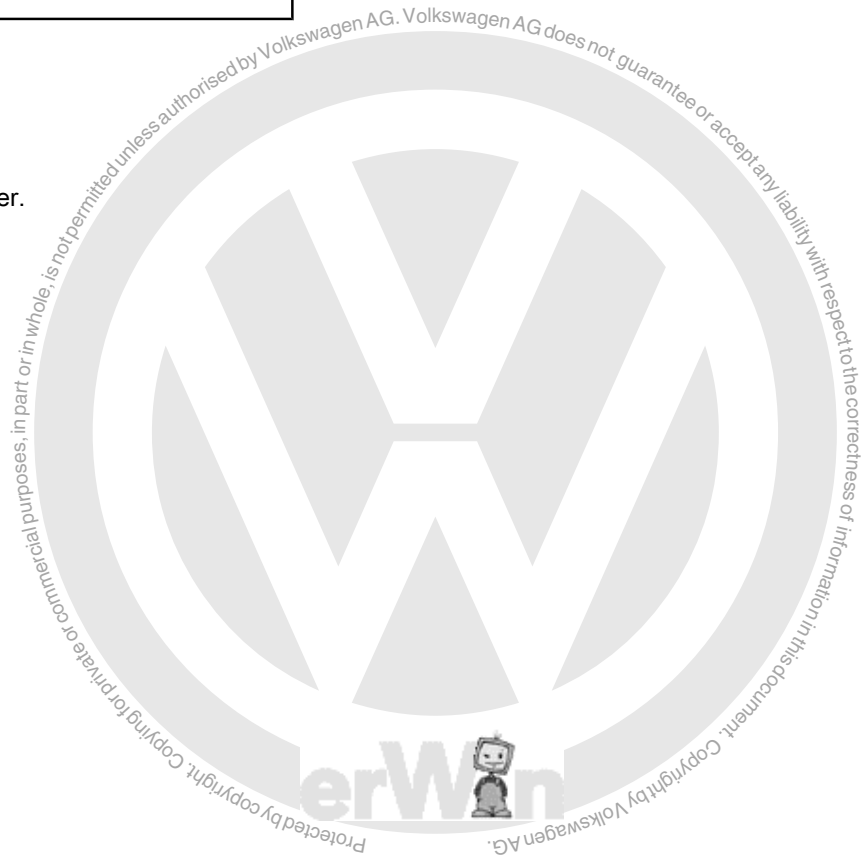


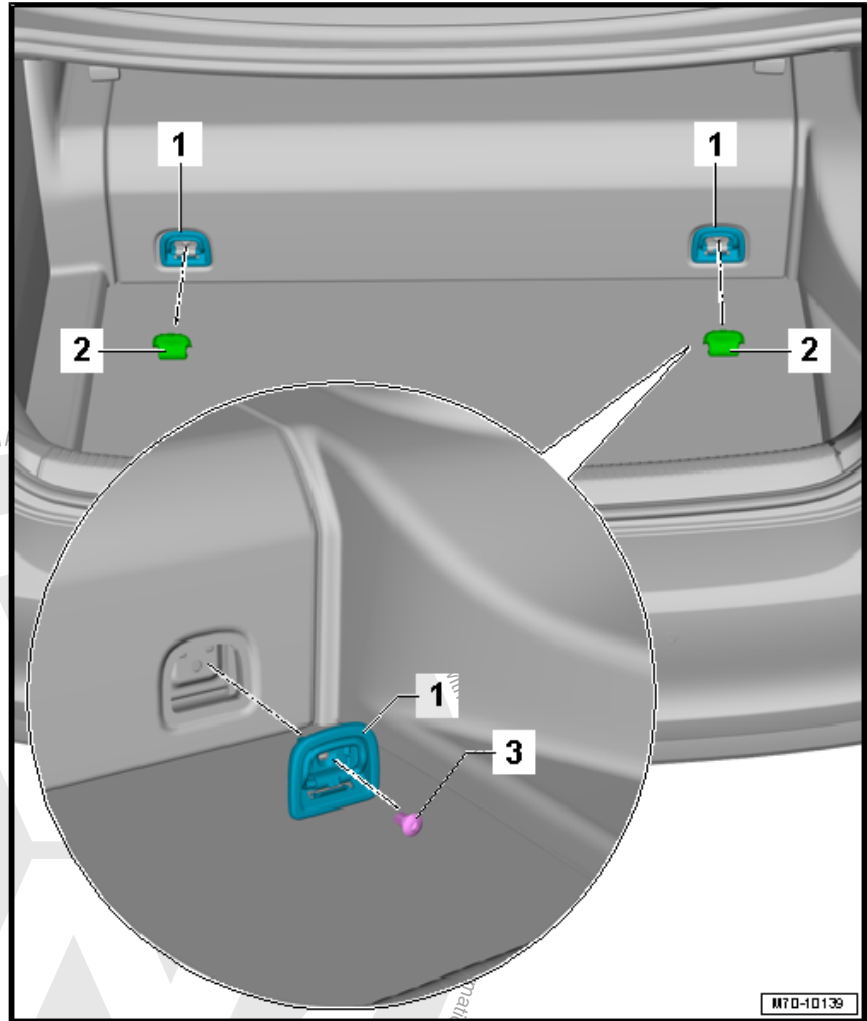
WARNING

When working on hybrid vehicles, observe the corresponding safety instructions ⇒ Electrical system, hybrid vehicles; Rep. gr. 93 ; Electric drive .

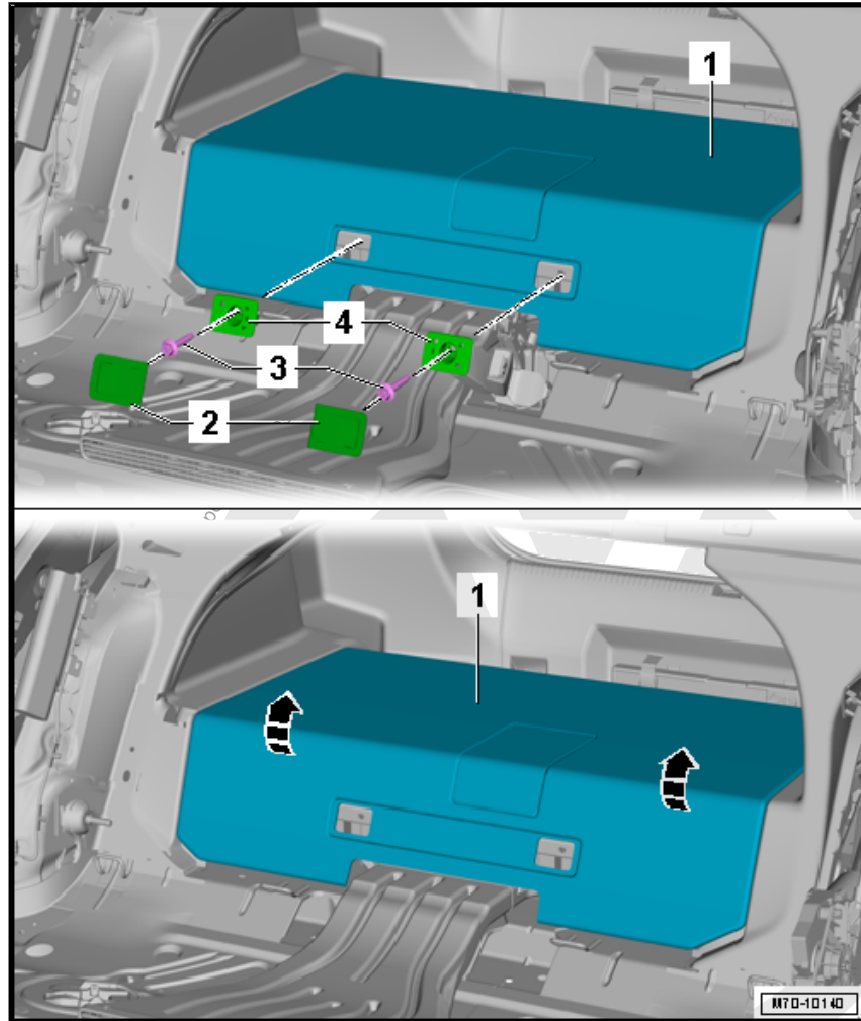
Removing:

- Remove caps -2-.
- Unscrew bolts -3- (20 Nm).
- Remove lashing eyes -1- from cover.





- Fold down rear backrest completely.
- Remove caps -2-.
- Unscrew bolts -3- (3.5 Nm).
- Remove bracket -4- from cover.
- Remove high-voltage battery cover -1- from luggage compartment in -direction of arrow-.



Installing:

- Install in reverse order of removal.

Note

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

5.5 Removing and installing side panel trim in luggage compartment

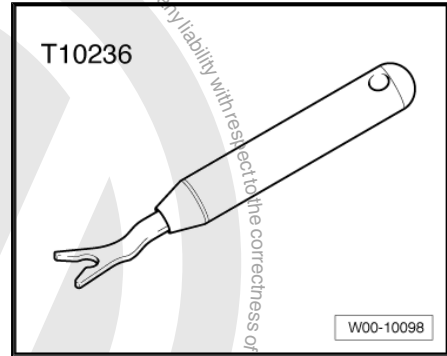
Note

Removal and installation are described for the left vehicle side. Follow same instructions for the right side as appropriate.

Special tools and workshop equipment required



- ◆ Release tool -T10236-



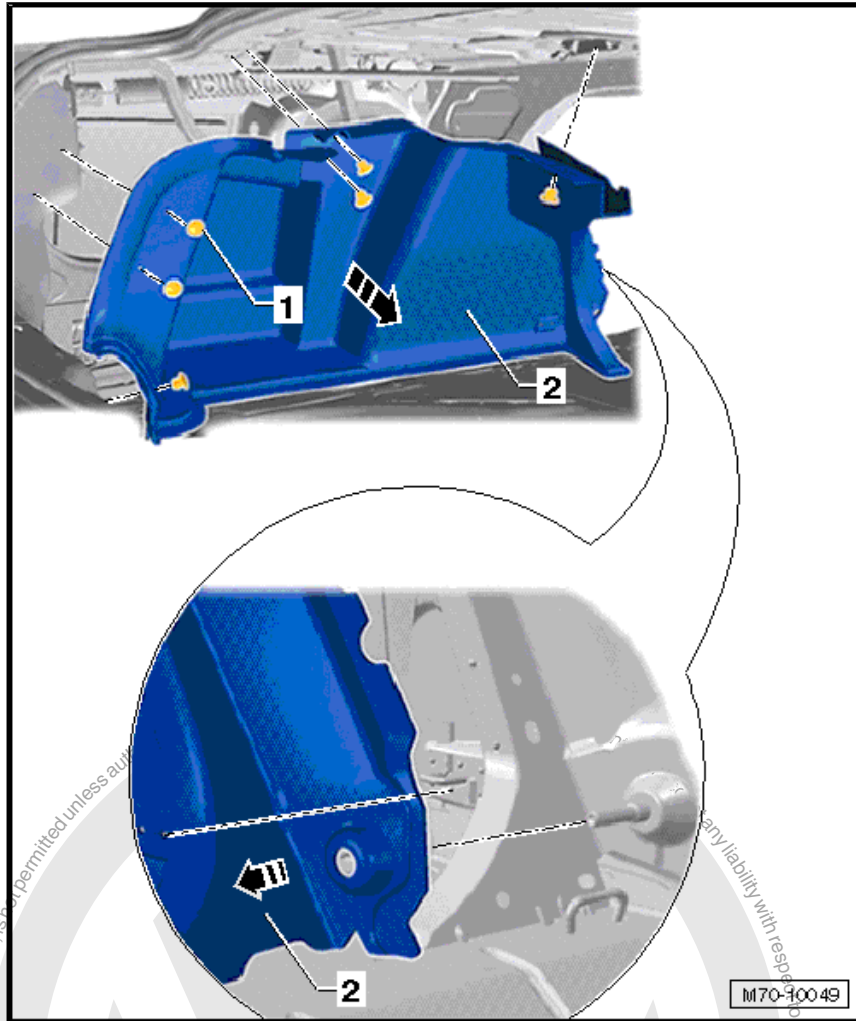
Removing

- Switch off ignition.
- Remove luggage compartment floor covering ⇒ [page 216](#)
- Remove backrest ⇒ [page 271](#) .
- Remove rear lock carrier cover ⇒ [page 218](#) .
- Remove retaining clips -1-.
- Pull trim -2- off in -direction of arrow-. While doing so, remove trim from rear lid seal beading.
- Depending on the vehicle's equipment, disconnect the corresponding wiring harnesses and remove trim -2- from vehicle.



Note

The rear wheel housing trim can remain installed. Trim -2- can be released carefully from rear wheel housing trim.



Installing

- Install in reverse order of removal.

Note

- ◆ Before installing, check all fasteners for damage and renew if necessary.
- ◆ Following installation, ensure that luggage compartment trim at side is correctly positioned in rear lid seal beading.

5.6 Removing and installing side panel trim in luggage compartment, hybrid vehicles



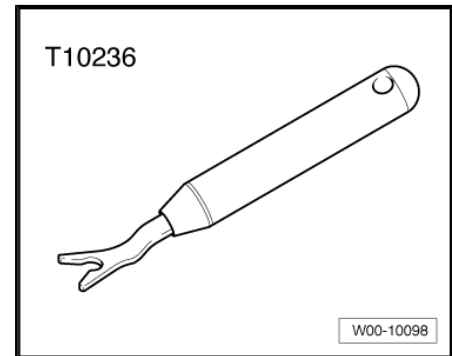
WARNING

When working on hybrid vehicles, observe the corresponding safety instructions ⇒ Electrical system, hybrid vehicles; Rep. gr. 93 ; Electric drive .



Special tools and workshop equipment required

- ◆ Release tool -T10236-



Removing

- Switch off ignition.
- Remove luggage compartment floor covering (hybrid vehicles) ⇒ [page 216](#) .
- Remove high-voltage battery cover ⇒ [page 220](#) .
- Remove rear lock carrier cover ⇒ [page 218](#) .

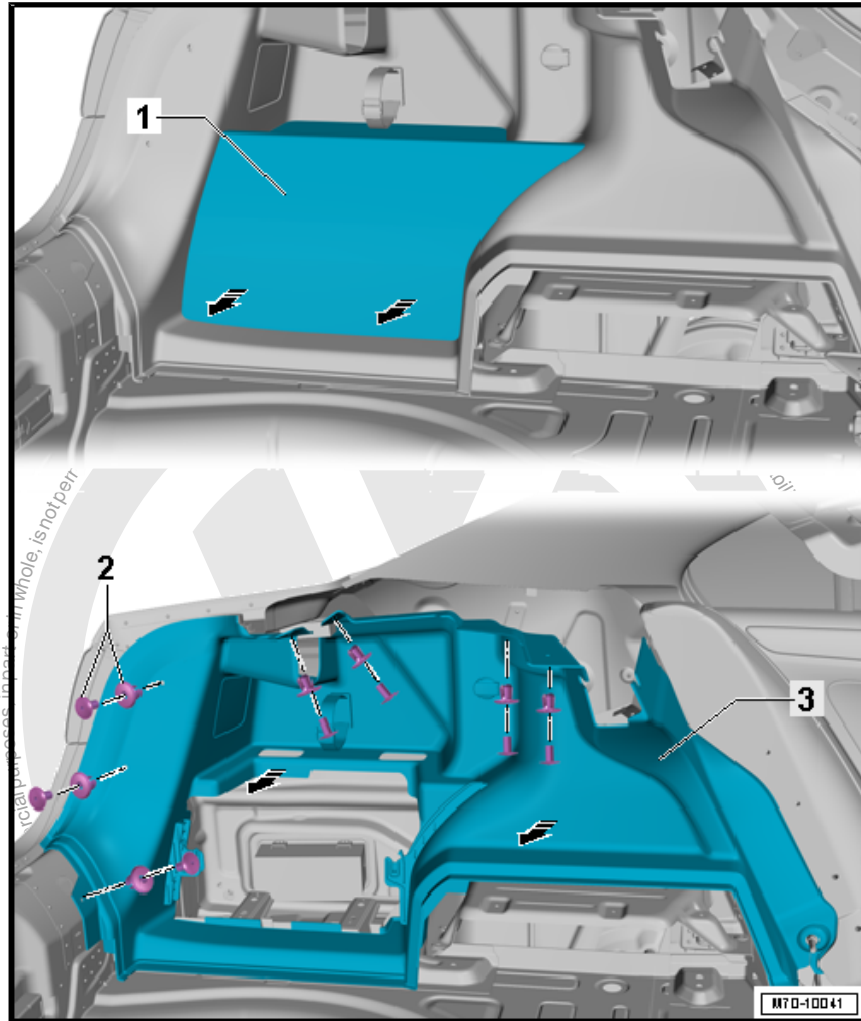
Removing left side panel trim in luggage compartment:

- Remove left backrest ⇒ [page 271](#) .
- Remove battery cover -1- from side trim -3-.
- Remove retaining clips -2-.
- Pull trim -3- off in -direction of arrow-. While doing so, remove trim from rear lid seal beading.
- Depending on the vehicle's equipment, disconnect the corresponding wiring harnesses and remove trim -3- from vehicle.



Note

The rear wheel housing trim can remain installed. Trim -3- can be released carefully from rear wheel housing trim.

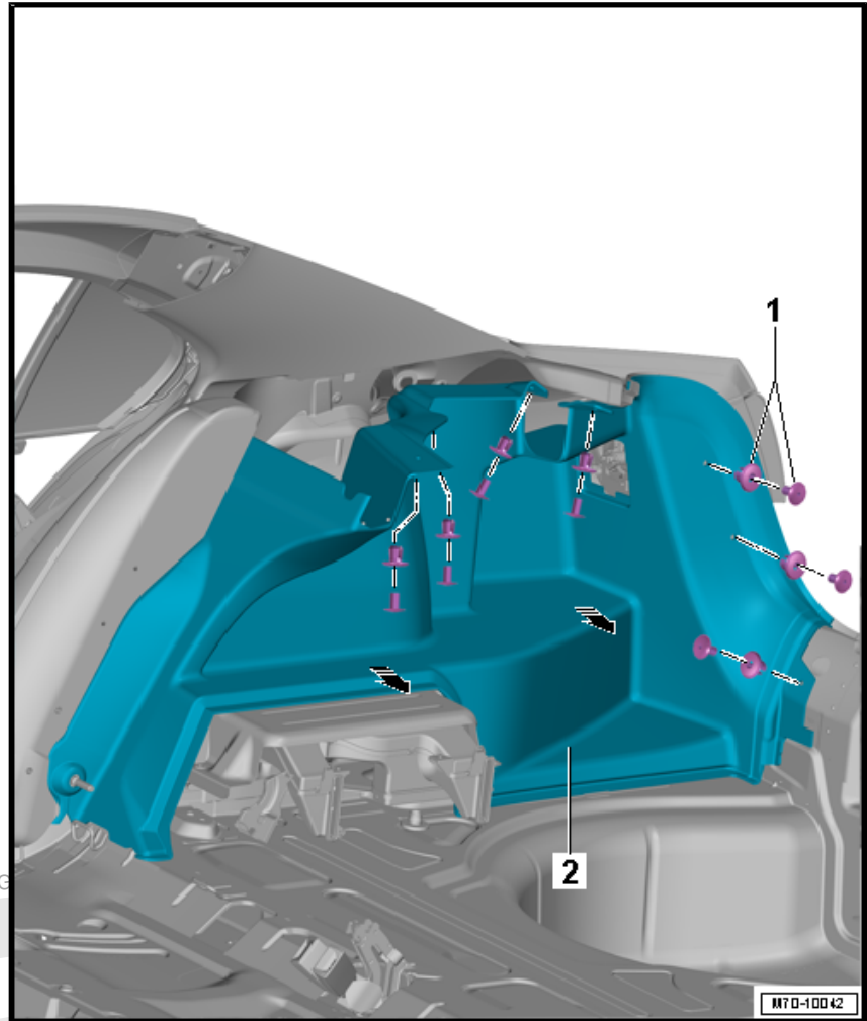


Removing right side panel trim in luggage compartment:

- Remove right backrest ⇒ [page 271](#) .
- Remove retaining clips -1-.
- Pull trim -2- off in -direction of arrow-. While doing so, remove trim from rear lid seal beading.
- Depending on the vehicle's equipment, disconnect the corresponding wiring harnesses and remove trim -2- from vehicle.

Note

The rear wheel housing trim can remain installed. Trim -2- can be released carefully from rear wheel housing trim.



Installing

1 Install in reverse order of removal.



Note

- ◆ Before installing, check all fasteners for damage and renew if necessary.
- ◆ Following installation, ensure that luggage compartment trim at side is correctly positioned in rear lid seal beading.

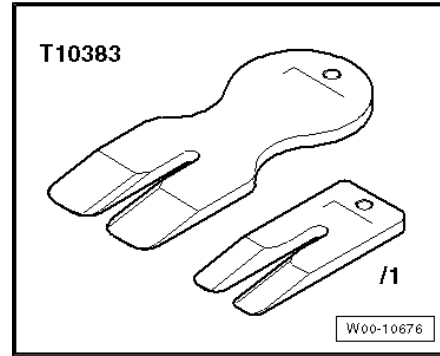
5.7 Removing and installing rear lid trim

Special tools and workshop equipment required

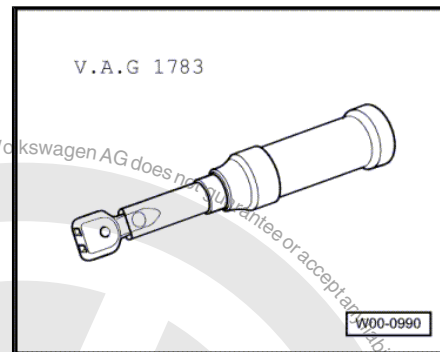




◆ Wedges -T10383-

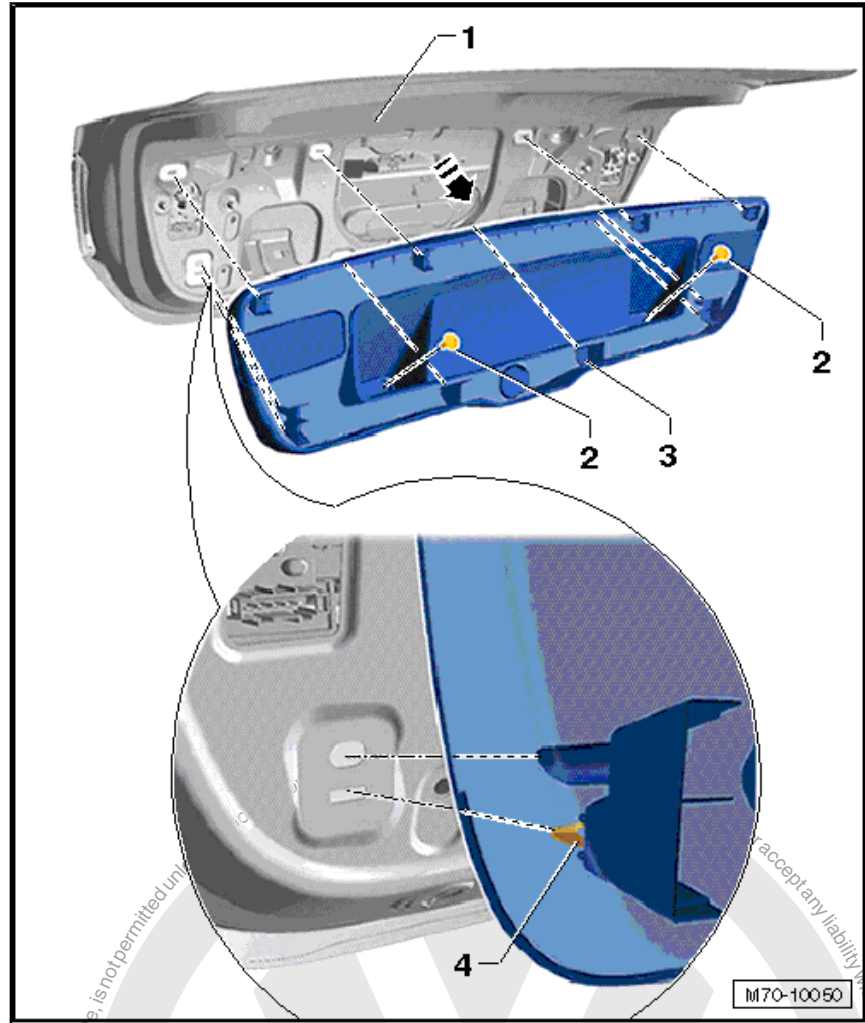


◆ Torque wrench -V.A.G 1783-



Removing

- Remove bolts -2- from closure recesses (2 Nm).
- Release retaining clips -4- of trim -3- out of mountings in rear lid, using wedges -T10383- .
- Remove trim -3- in -direction of arrow- from rear lid -1-.



Installing

- Install in reverse order of removal



Note

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



6 Roof trims

⇒ [“6.1 Detaching and fastening moulded headliner”, page 230](#)

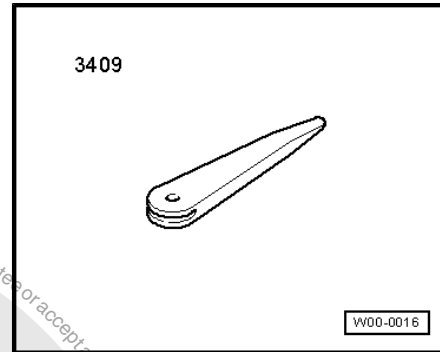
⇒ [“6.2 Removing and installing moulded headlining”, page 233](#)

⇒ [“6.3 Removing and installing insulation/roof reinforcements”, page 238](#)

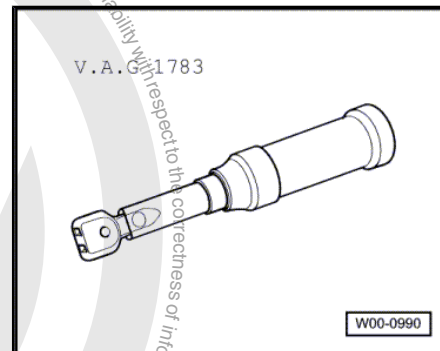
6.1 Detaching and fastening moulded headliner

Special tools and workshop equipment required

◆ Removal wedge -3409-



◆ Torque wrench -V.A.G 1783-



Releasing

- Open sliding/tilting roof, if there is one.
- Switch off ignition.

Vehicles with interior mirror and rain sensor

- Remove interior mirror together with cable guide ⇒ [page 45](#) .

Vehicles with interior mirror, rain sensor and front camera

- Remove interior mirror together with cable guide ⇒ [page 47](#) .

All vehicles

- Remove lights and switches in moulded headliner. ⇒ Electrical system; Rep. gr. 96 ; Lights and switches in moulded headliner
- Remove upper left and right A-pillar trim ⇒ [page 191](#) .
- Remove upper left and right B-pillar trim ⇒ [page 197](#) .
- Remove left and right C-pillar trim ⇒ [page 204](#) .
- Remove sun visor together with left and right mounts ⇒ [page 22](#) .



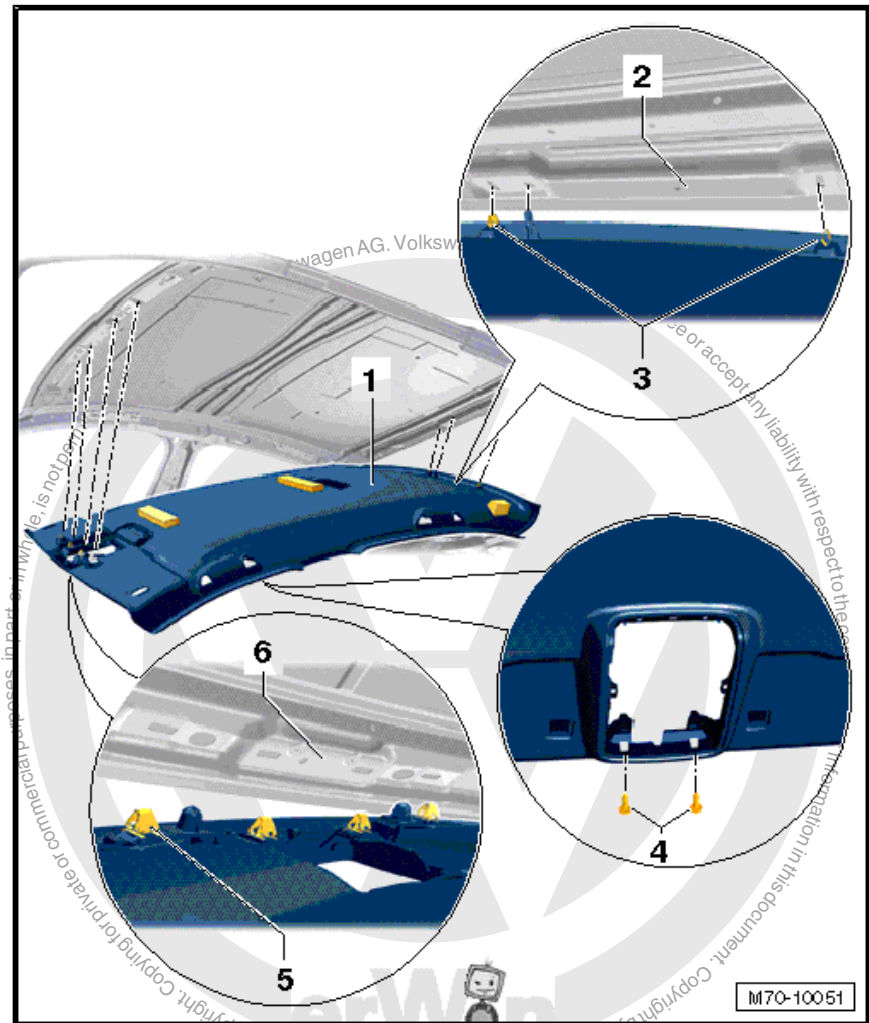
- Remove hand holds on left and right sides of roof => [page 23](#)
- Undo bolts -4- (2 Nm) from retaining frame.
- Carefully unlatch retaining clips -3- from rear roof cross member -2-.
- Carefully unlatch retaining clips -5- from front roof cross member -6-.



Note

Retaining clips -5- must always be renewed before installation.

- Fold backrest of driver's and front passenger's seat backwards.
- Detach moulded headliner -1- from door seal beading and lower.



Models with sliding/tilting sunroof

- Push wedge -T10039/1- between frame -1- and moulded headlining -2-.

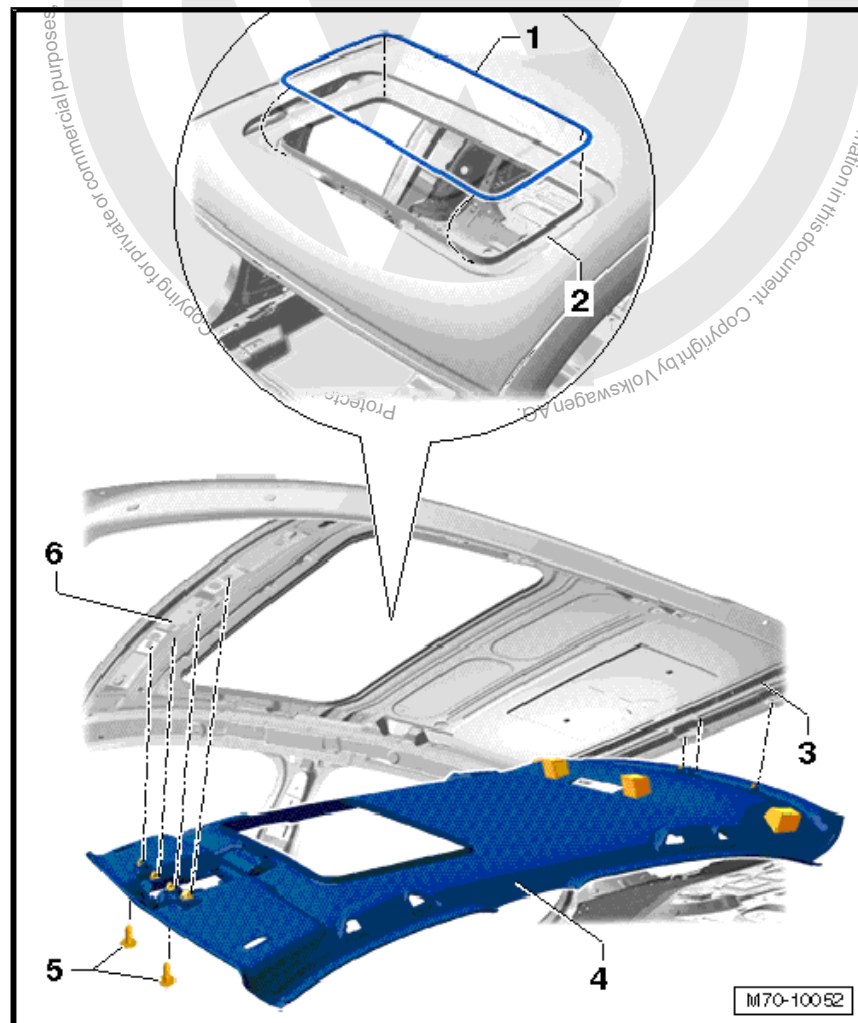


- Using release lever -T10039-, detach frame -1- from all round the moulded headlining -2-.
- Undo bolts -5- (2 Nm) from retaining frame.
- Carefully detach rear retaining clips from rear roof cross member -3-.
- Carefully, detach front retaining clips from roof cross member -6-.

i Note

Retaining clips must always be renewed before installation.

- Detach moulded headliner -4- from door seal beading and lower.



Securing

- Install in reverse order of removal.



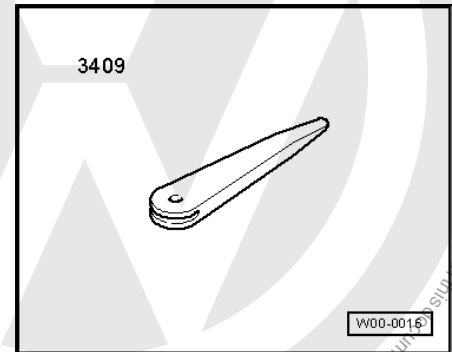
i Note

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

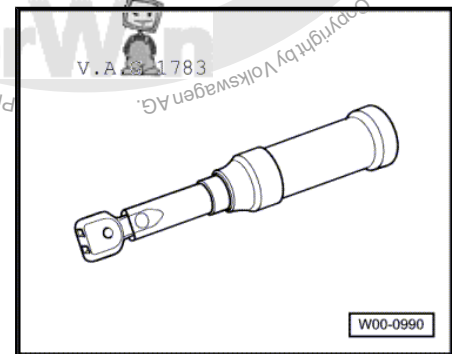
6.2 Removing and installing moulded headlining

Special tools and workshop equipment required

- ◆ Removal wedge -3409-



- ◆ Torque wrench -V.A.G 1783-



Removing

- Open sliding/tilting roof, if there is one.
- Switch off ignition.

Vehicles with interior mirror and rain sensor

- Remove interior mirror together with cable guide ⇒ [page 45](#) .

Vehicles with interior mirror, rain sensor and front camera

- Remove interior mirror together with cable guide ⇒ [page 47](#) .

Vehicles with DSG or automatic gearbox

- Release selector lever with the emergency release control and move lever to "S" position ⇒ Power transmission; Rep. gr. 37 ; Emergency selector lever release .

Vehicles with manual gearbox

- Select 4th gear with selector lever.

All vehicles

- Remove lights and switches in moulded headliner. ⇒ Electrical system; Rep. gr. 96 ; Lights and switches in moulded headliner



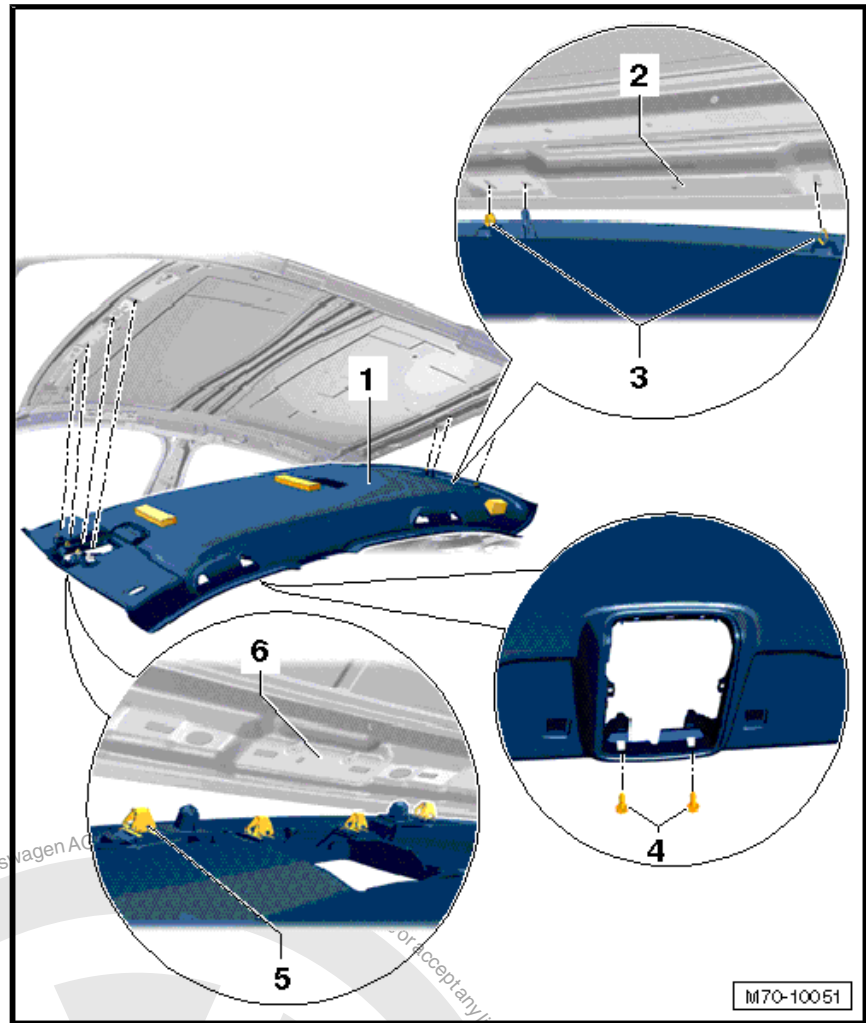
- Remove upper left and right A-pillar trim ⇒ [page 191](#) .
- Remove upper left and right B-pillar trim ⇒ [page 197](#) .
- Remove left and right C-pillar trim ⇒ [page 204](#) .
- Remove sun visor together with left and right mounts ⇒ [page 22](#) .
- Remove hand holds on left and right sides of roof ⇒ [page 23](#)
- Remove front seat (passenger side) ⇒ [page 244](#) .
- Fold driver's backrest backwards.
- Undo bolts -4- (2 Nm) from retaining frame.
- Carefully unlatch retaining clips -3- from rear roof cross member -2-.
- Carefully unlatch retaining clips -5- from front roof cross member -6-.



Note

Retaining clips -5- must always be renewed before installation.

- Detach moulded headliner -1- from door seal beading and lower.
- Swivel moulded headliner -1- and take it out of the vehicle carefully through the right rear door.



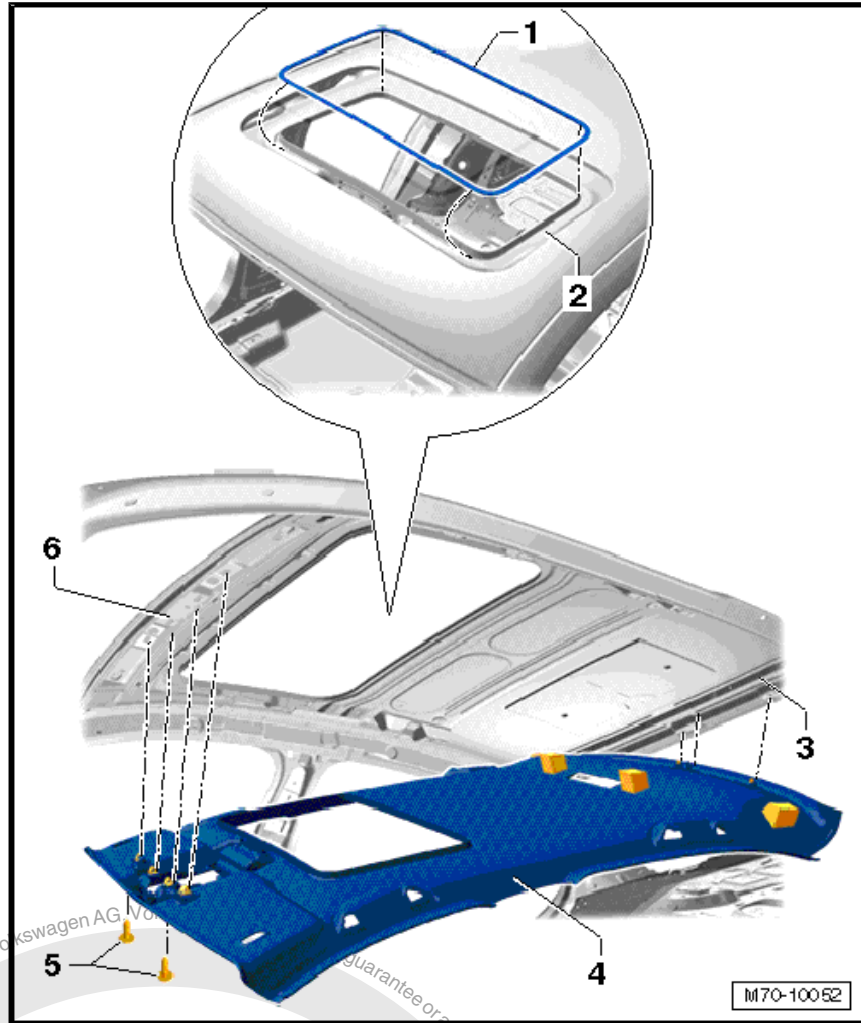
Models with sliding/tilting sunroof

- Push wedge -T10039/1- between frame -1- and moulded headlining -2-.
- Using release lever -T10039- , detach frame -1- from all round the moulded headlining -2-.
- Undo bolts -5- (2 Nm) from retaining frame.
- Carefully detach rear retaining clips from rear roof cross member -3-.
- Carefully, detach front retaining clips from roof cross member -6-.



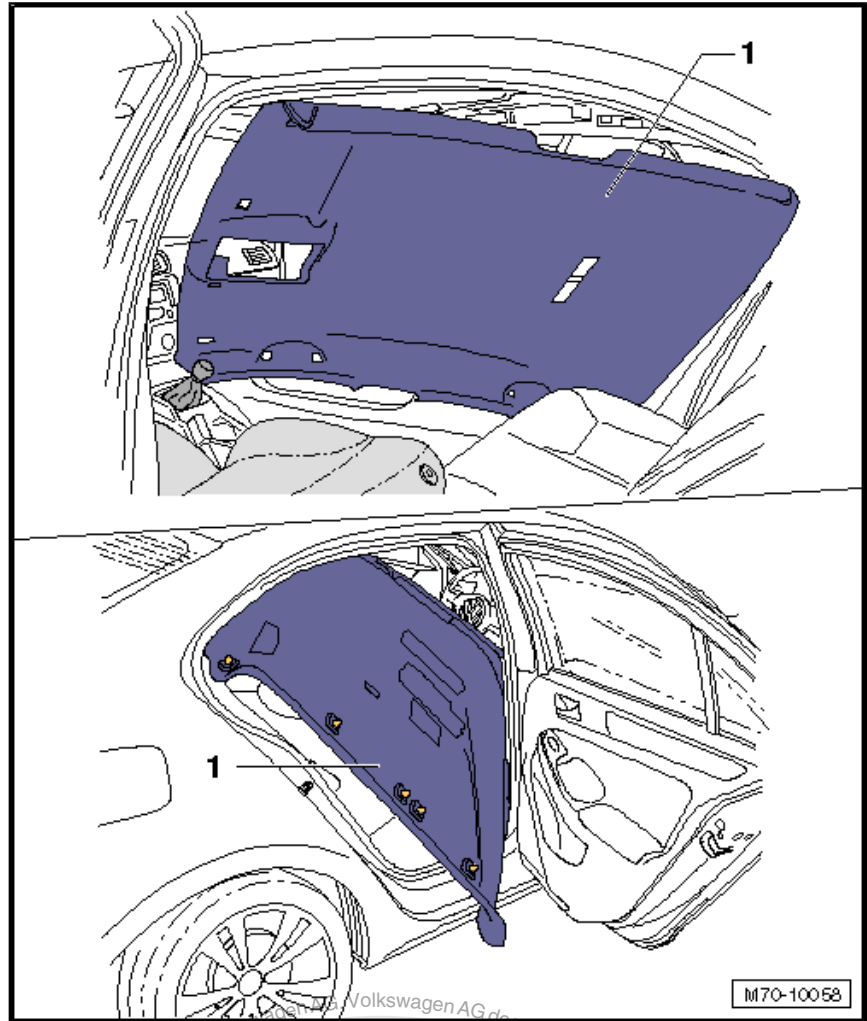
Note

Retaining clips must always be renewed before installation.



All vehicles

- Detach moulded headliner -1- from door seal beading and lower.
- Swivel moulded headliner -1- and take it out of the vehicle carefully through the right rear door.



Installing

- Install in reverse order of removal

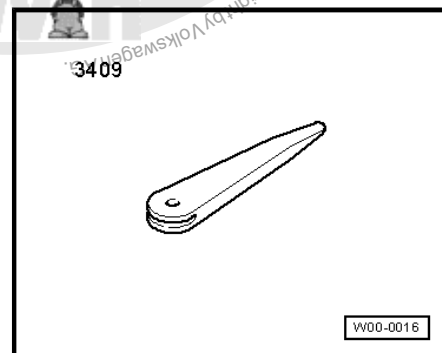
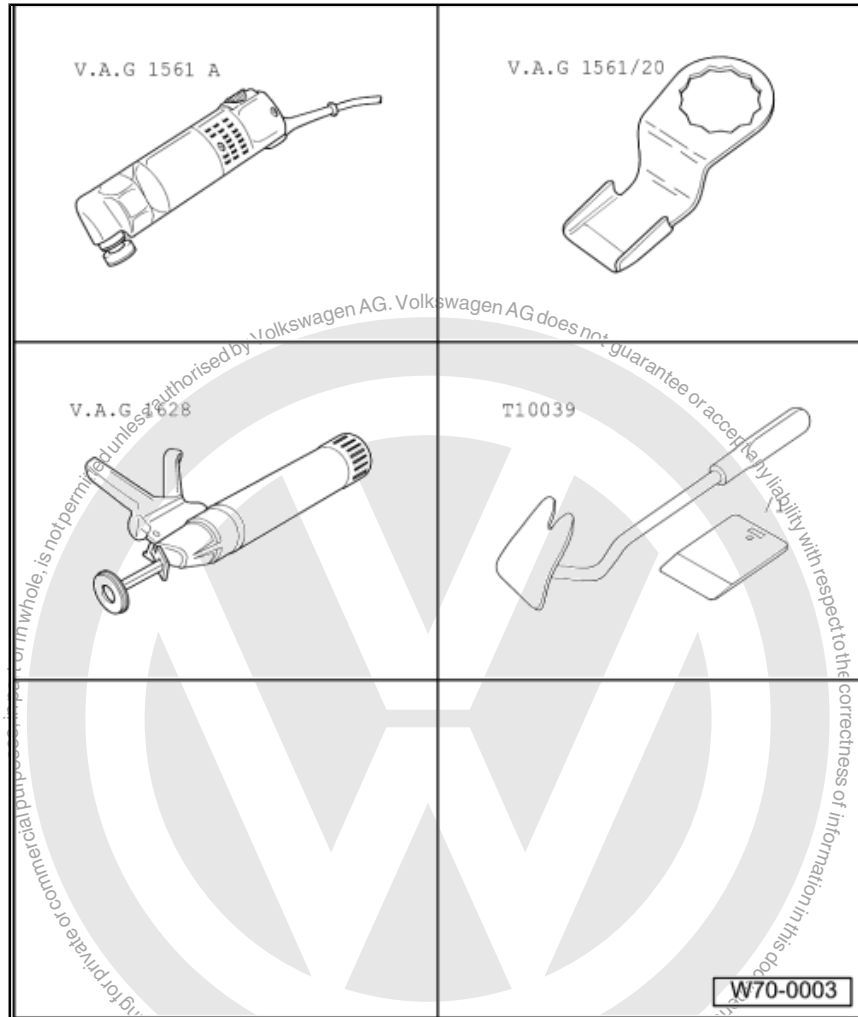


Note

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

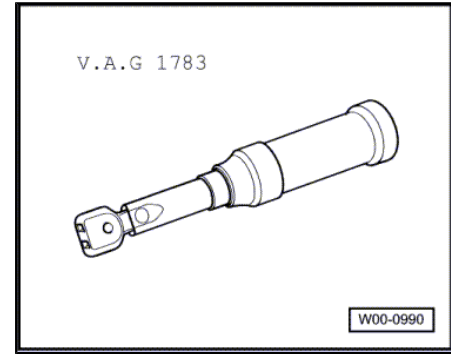


6.3 Removing and installing insulation/roof reinforcements



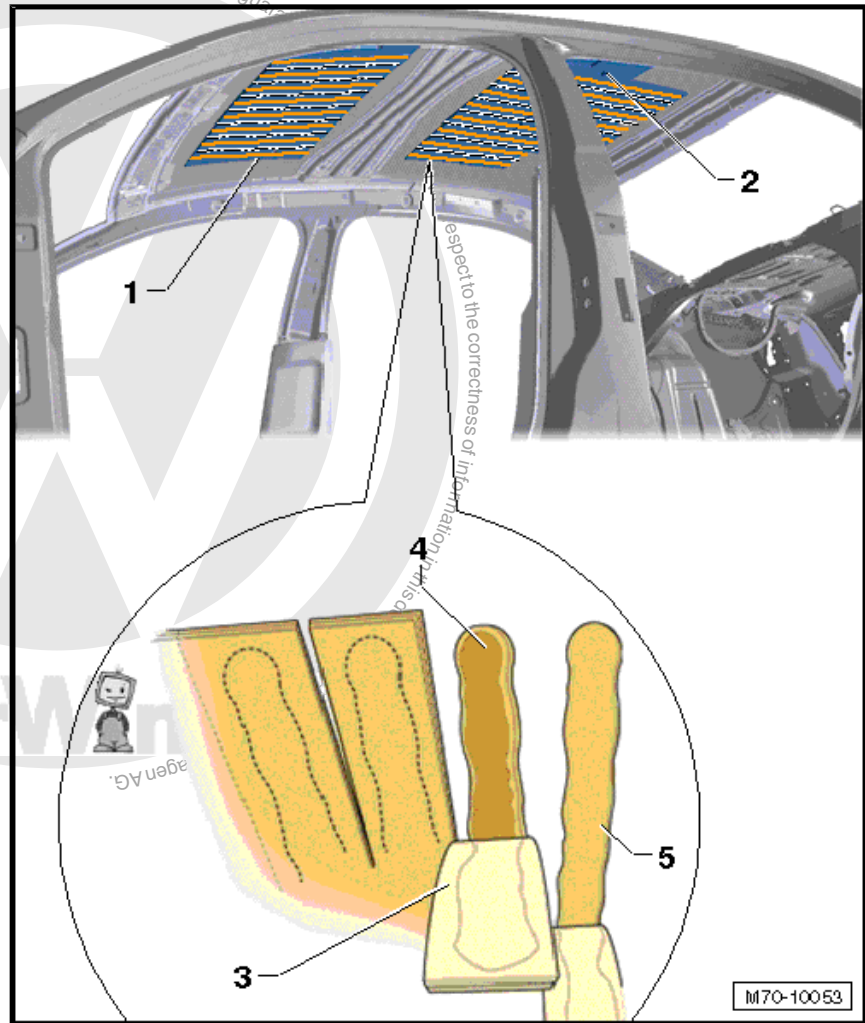


- ◆ Electric cutter -V.A.G 1561 A-
- ◆ Cutting blade -V.A.G 1561/20-
- ◆ Cartridge gun -V.A.G 1628-
- ◆ Release lever -T10039 -
- ◆ Removal wedge -T10039 /1-
- ◆ Removal wedge -3409-
- ◆ Torque wrench -V.A.G 1783-



Removing

- Remove moulded headlining => [page 233](#) .
- Cut insulation/roof reinforcements -1- and -2- into approx. 6 cm wide strips -3- -dot-dash lines-, using a carpet knife.
- Pull strips -3- from roof.
- Cut back adhesive residue -4- using an electric cutter -V.A.G 1561 A- and cutting blade -V.A.G 1561/20- -5-.



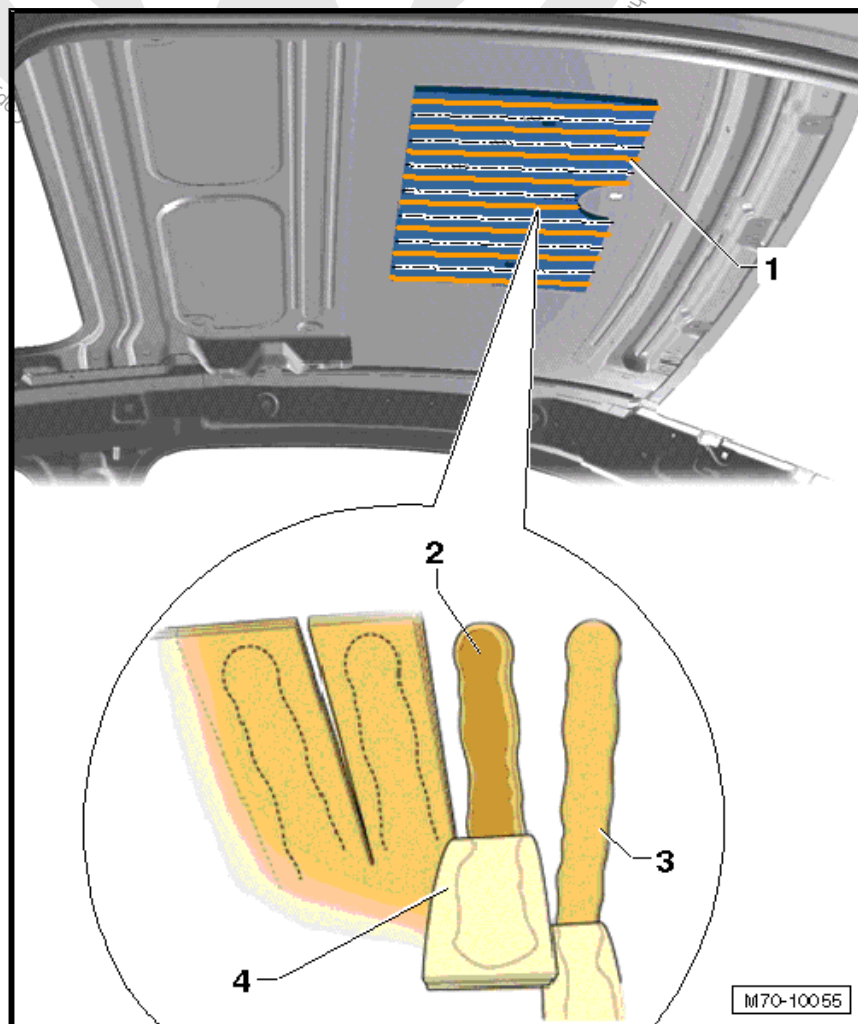


i Note

If paint structure has been damaged on removal of the insulation/roof reinforcements, repair paint damage according to guidelines of ⇒ Paint workshop manual .

Models with sliding/tilting sunroof

- Remove moulded headlining ⇒ [page 233](#) .
- Cut insulation/roof reinforcements -1- into approx. 6 cm wide strips -4- -dot-dash lines-, using a carpet knife.
- Pull strips -4- from roof.
- Cut back adhesive residue -2- using an electric cutter - V.A.G 1561 A- and cutting blade -V.A.G 1561/20- -3-.



i Note

If paint structure has been damaged on removal of the insulation/roof reinforcements, repair paint damage according to guidelines of ⇒ Paint workshop manual .



Installing

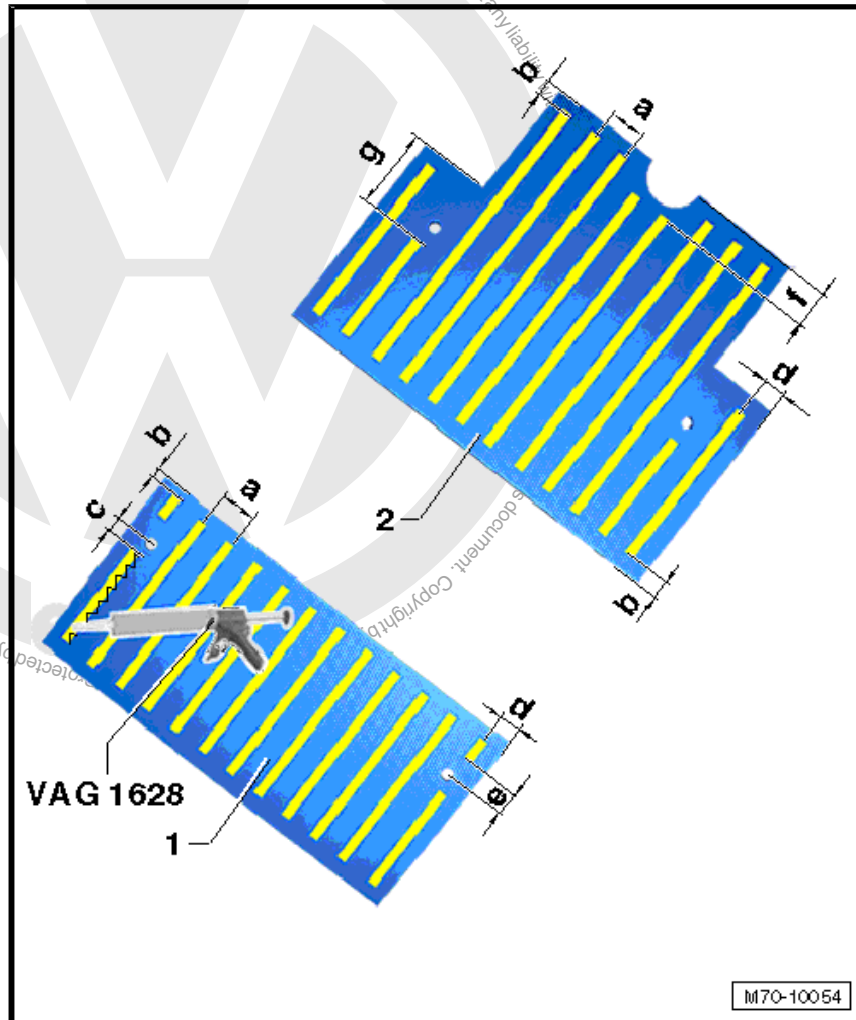


Note

Observe adhesive processing instructions when installing insulation/roof reinforcements.

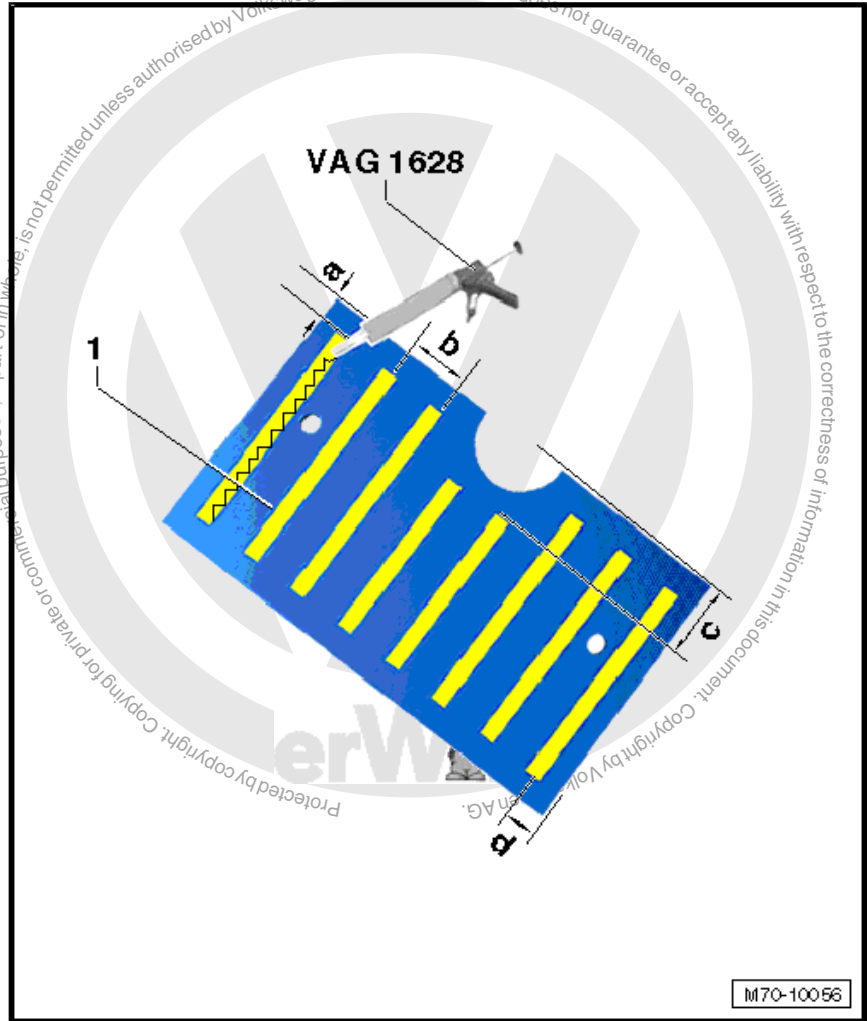
- Use hand-cartridge gun -V.A.G 1628- to apply single-component assembly adhesive -D 190 MKD A3- to roof insulation/ reinforcements -1- and -2-.
- Apply beads of single-component assembly adhesive of the following size:
 - ◆ Dimension a = 61 mm
 - ◆ Dimension b = 25 mm
 - ◆ Dimension c = 34 mm
 - ◆ Dimension d = 33 mm
 - ◆ Dimension e = 35 mm
 - ◆ Dimension f = 65 mm
 - ◆ Dimension g = 129 mm
- Press insulation/roof reinforcement -1- and -2- onto roof from inside all over the surface of the roof.





Models with sliding/tilting sunroof

- Use hand-cartridge gun -V.A.G 1628- to apply single-component assembly adhesive -D 190 MKD A3- to roof insulation/reinforcements -1-.
- Apply beads of single-component assembly adhesive of the following size:
 - ◆ Dimension a = 25 mm
 - ◆ Dimension b = 61 mm
 - ◆ Dimension c = 70 mm
 - ◆ Dimension d = 33 mm
- Press insulation/roof reinforcement -1- onto roof from inside all over the surface of the roof.





72 – Seat frames

1 Front seats

- ⇒ [“1.1 Removing and installing front seat”, page 244](#)
- ⇒ [“1.2 Removing and installing backrest adjusting lever”, page 249](#)
- ⇒ [“1.3 Removing and installing lumbar adjustment lever”, page 250](#)
- ⇒ [“1.4 Removing and installing left trim on seat without height adjustment”, page 250](#)
- ⇒ [“1.5 Removing and installing left trim on seat with manual height adjustment”, page 252](#)
- ⇒ [“1.6 Removing and installing left trim on seat with electrical height adjustment”, page 254](#)
- ⇒ [“1.7 Removing and installing right trim on seat”, page 257](#)
- ⇒ [“1.8 Removing and installing front seat drawer together with mounting”, page 258](#)
- ⇒ [“1.9 Removing and installing front seat bar and operating lever”, page 259](#)
- ⇒ [“1.10 Removing and installing bar of electrically adjustable seat”, page 260](#)
- ⇒ [“1.11 Removing and installing head restraint guides”, page 262](#)
- ⇒ [“1.12 Removing and installing backrest”, page 263](#)
- ⇒ [“1.13 Removing and installing manually adjustable lumbar support frame”, page 265](#)
- ⇒ [“1.14 Removing and installing fire extinguisher holder”, page 267](#)
- ⇒ [“1.16 Removing and installing drive for backrest adjustment \(electrically adjustable seat\)”, page 269](#)

1.1 Removing and installing front seat



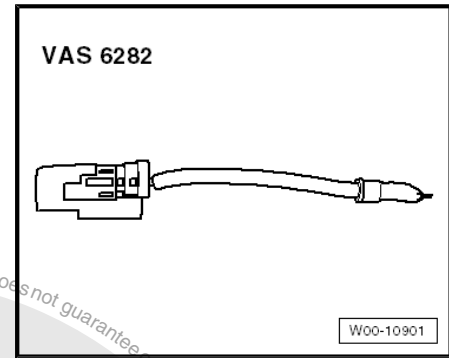
Note

- ◆ *Removal and installation is described for the left seat. Apply the same instructions for removal and installation of the right seat as appropriate.*
- ◆ *Removal and installation is described for a manually adjustable seat. Apply the same instructions for removal and installation of an electrically adjustable seat as appropriate.*

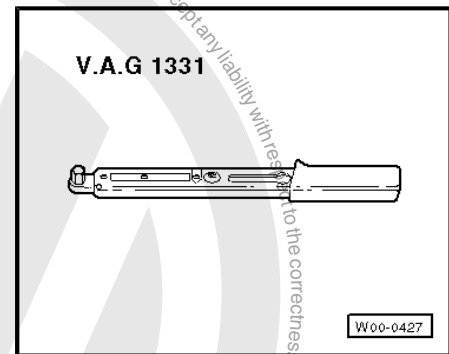
Special tools and workshop equipment required



- ◆ Airbag adapter -VAS 6282-



- ◆ Torque wrench -V.A.G 1331-



Removing



WARNING

- ◆ **Follow safety regulations for pyrotechnic components**
⇒ page 1 .
- ◆ **Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.**

- Move head restraint to lowest position.
- Remove drawer, if there is one, from seat.
- Move seat to uppermost position using height adjustment mechanism.
- Move seat to foremost position using longitudinal adjustment mechanism.
- Remove bolts -3- and -4-
- Move seat to rearmost position using longitudinal adjustment mechanism.
- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .
- Remove covering cap/floor covering of coupling station.



WARNING

Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.

- Depending on vehicle equipment, disconnect seat wiring harnesses from seat at coupling station.
- Connect airbag adapter -VAS 6282- to side airbag wiring harness -5-.
- Remove bolts -1- and -2-

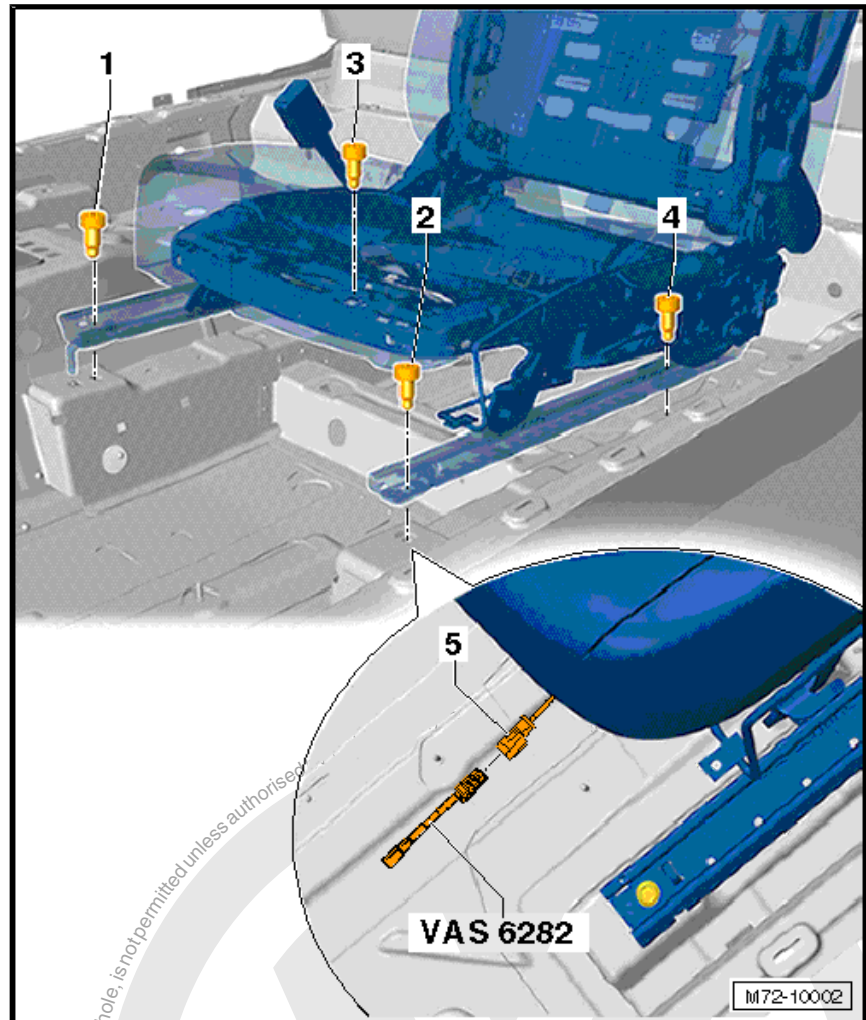


Caution

If seat is lifted out of vehicle or transported, it must not, in order to prevent damage, be gripped by attaching parts such as, e.g. belt buckle, lever for seat longitudinal adjustment, lever for seat height adjustment or seat trim panels.

- Insert right hand between backrest and padding. Grasp the front end of the padding with your left hand and lift the seat out of the vehicle.





Installing



WARNING

- ◆ **Follow safety regulations for pyrotechnic components**
⇒ page 1.
- ◆ **Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.**

- Lift seat into vehicle through front door aperture.
- Lift seat into respective openings in floor and onto locating pins on tunnel side.
- Tighten bolt -1- (40 Nm).
- Tighten bolt -2- (40 Nm).



WARNING

If, when installing a seat a thread in seat cross member mounting plate is damaged, reworking damaged threads is prohibited! In this case, the seat cross member mounting plate must be replaced.

If seat cross member mounting plate threads have been damaged:

- Replace seat cross member mounting plate concerned
⇒ Body Repairs; Rep. gr. 51 .
- Remove airbag adapter -VAS 6282- .
- Engage side airbag wiring harness -5- in coupling station.
- Depending on vehicle equipment, secure all other wiring harnesses in coupling station.



Note

Ensure electrical connector is pushed fully onto stop and engages audibly.

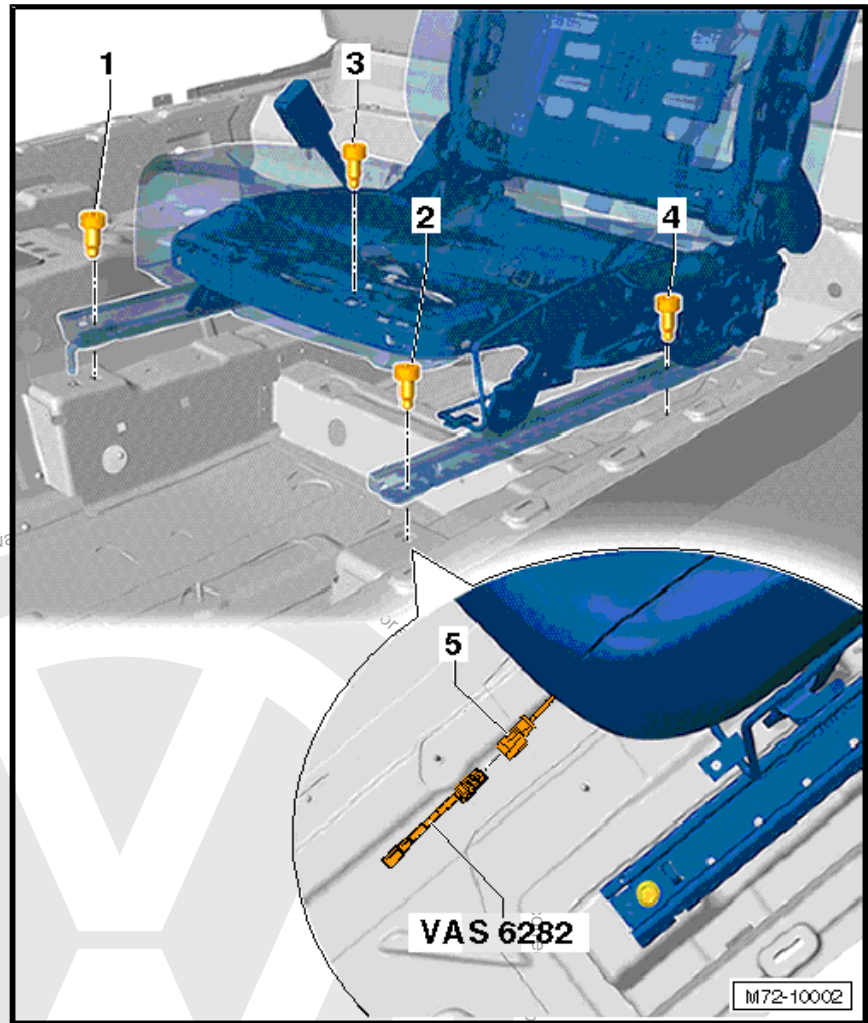
- Fit covering cap/floor covering of coupling station.
- Insert drawer, if there is one, into seat.



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .
- Move seat to foremost position using longitudinal adjustment mechanism.
- Tighten bolt -3- (40 Nm).
- Tighten bolt -4- (40 Nm).



i Note

If airbag warning lamp -K75- indicates a fault following installation, event memory must be read, deleted and read again → Vehicle diagnostic tester.

1.2 Removing and installing backrest adjusting lever

i Note

Removal and installation is described for the left seat. Apply the same instructions for removal and installation of the right seat as appropriate.

Removing

- Remove spreader clip -2- using a small screwdriver.



- Pull backrest adjusting lever off -1-.

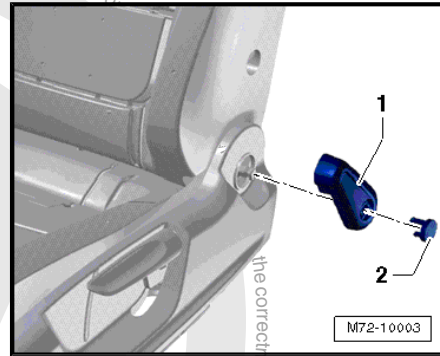
Installing

- Install in reverse order of removal.



Note

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



1.3 Removing and installing lumbar adjustment lever

Removing

- Pull lumbar support adjusting lever -1- off shaft -2-, using removal pliers -3392-.

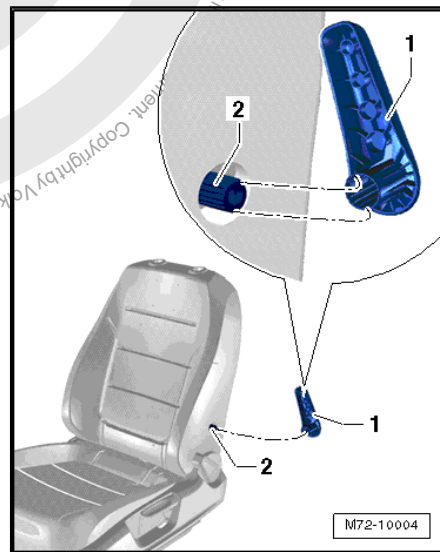
Installing

- Install in reverse order of removal.



Note

Ensure that teeth on lumbar support adjusting lever -1- align with teeth on shaft -2-.



1.4 Removing and installing left trim on seat without height adjustment



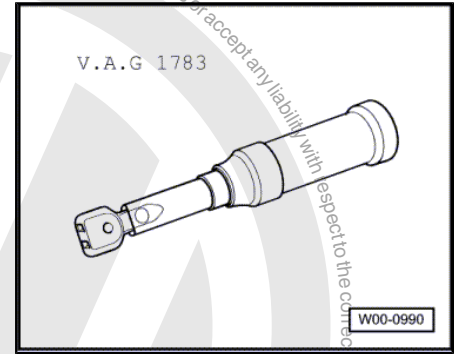
Note

Removal and installation is described for the left seat. Apply the same instructions for removal and installation of the right seat as appropriate.

Special tools and workshop equipment required

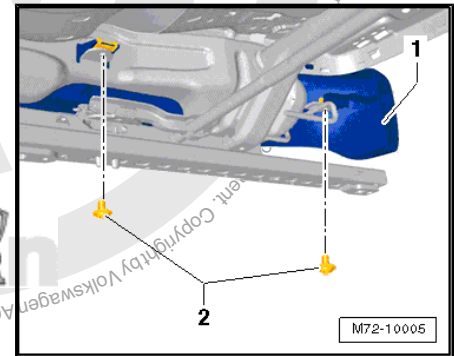


- ◆ Torque wrench -V.A.G 1783-

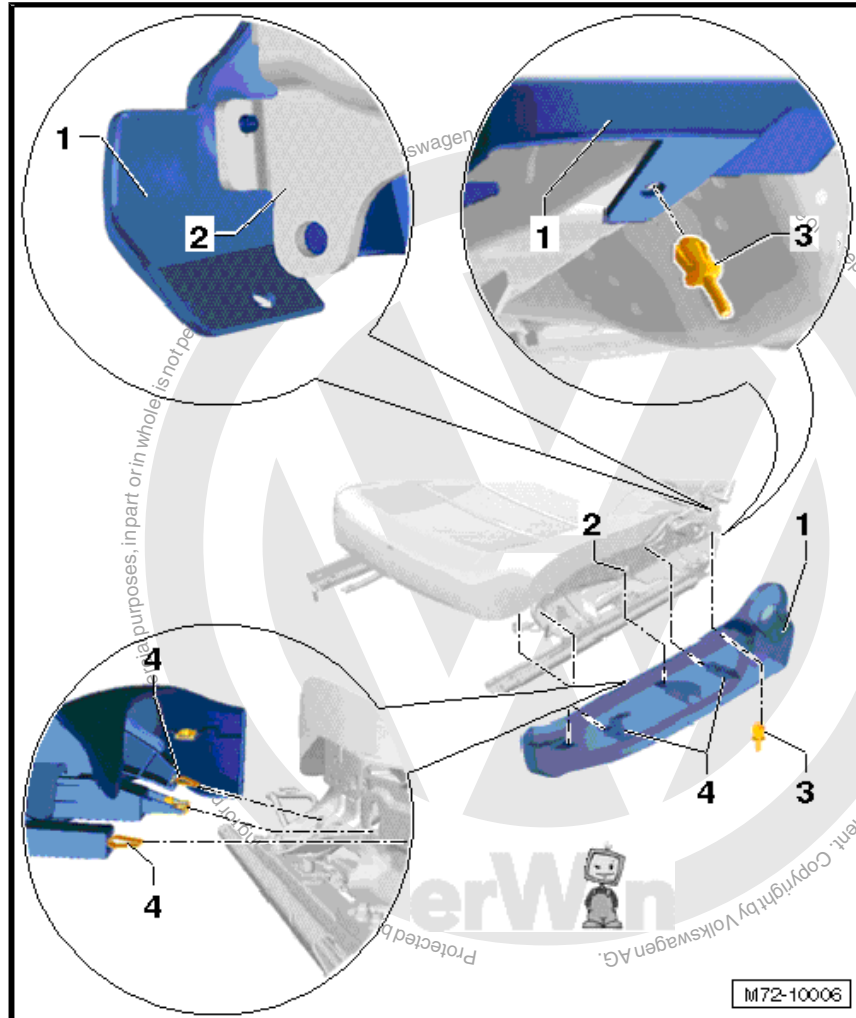


Removing

- Undo bolts -2- of trim -1- (3 Nm).



- Remove spreader clip -3- of trim -1-.
- Release retaining clips -4- of trim -1- from seat frame -2-.
- Remove trim -1- out of mountings of seat frame -2- in direction of travel.



Installing

- Install in reverse order of removal.

Note

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

1.5 Removing and installing left trim on seat with manual height adjustment

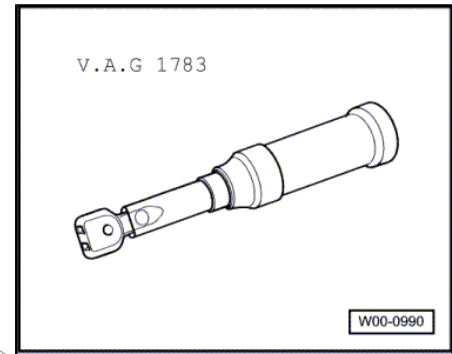
Note

Removal and installation is described for the left seat. Apply the same instructions for removal and installation of the right seat as appropriate.

Special tools and workshop equipment required



- ◆ Torque wrench -V.A.G 1783-



Removing

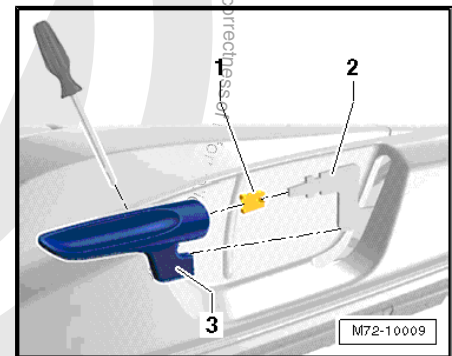
- Pull height adjustment handle -3- upwards and press metal tab of retaining clip -1- inwards using a small screwdriver. Pull height adjustment handle -3- off adjusting lever -2-.



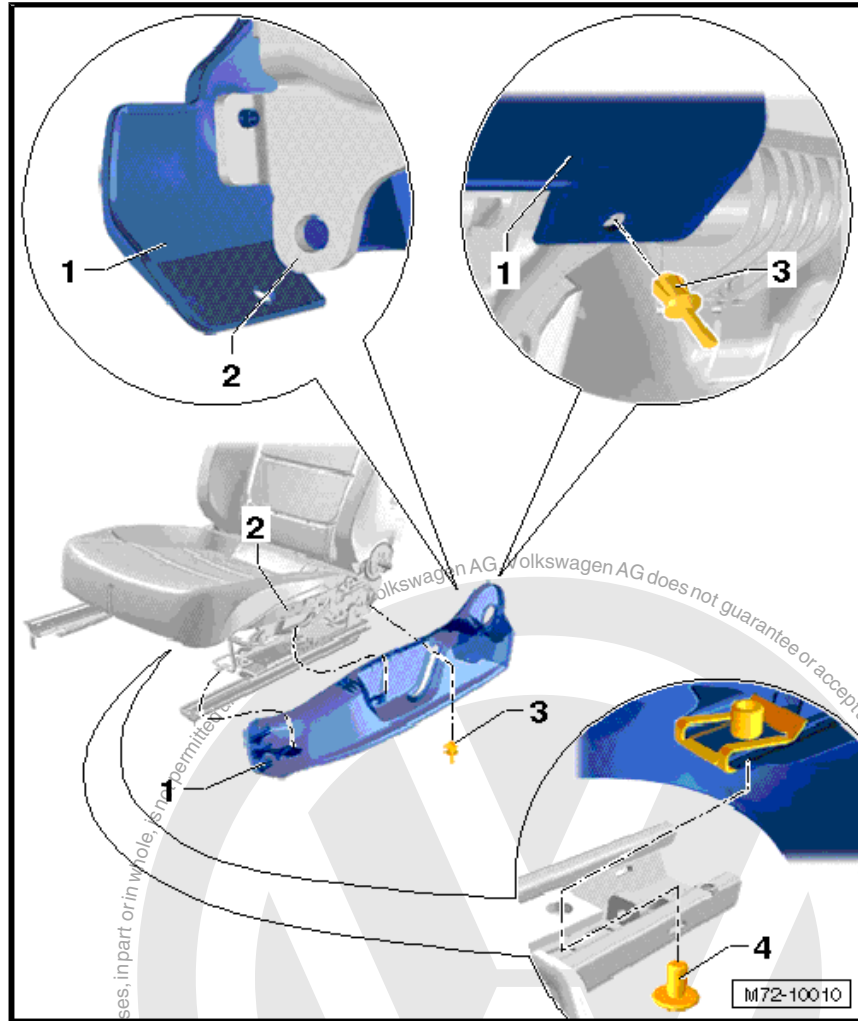
Note

For greater clarity, the retaining clip is shown removed in the illustration.

- Remove retaining clip -1- from adjusting lever -2-.



- Undo bolt -4- of trim -1- (3 Nm).
- Remove spreader clip -3- of trim -1-.
- Detach trim -1- from seat frame -2-.
- Remove trim -1- out of mountings of seat frame -2- in direction of travel.



Installing

- Install in reverse order of removal.

Note

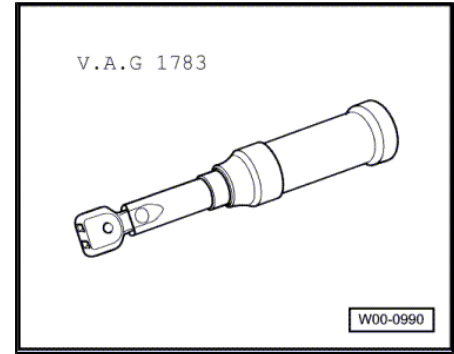
Before installing, check all fasteners for damage and renew if necessary.

1.6 Removing and installing left trim on seat with electrical height adjustment

Special tools and workshop equipment required

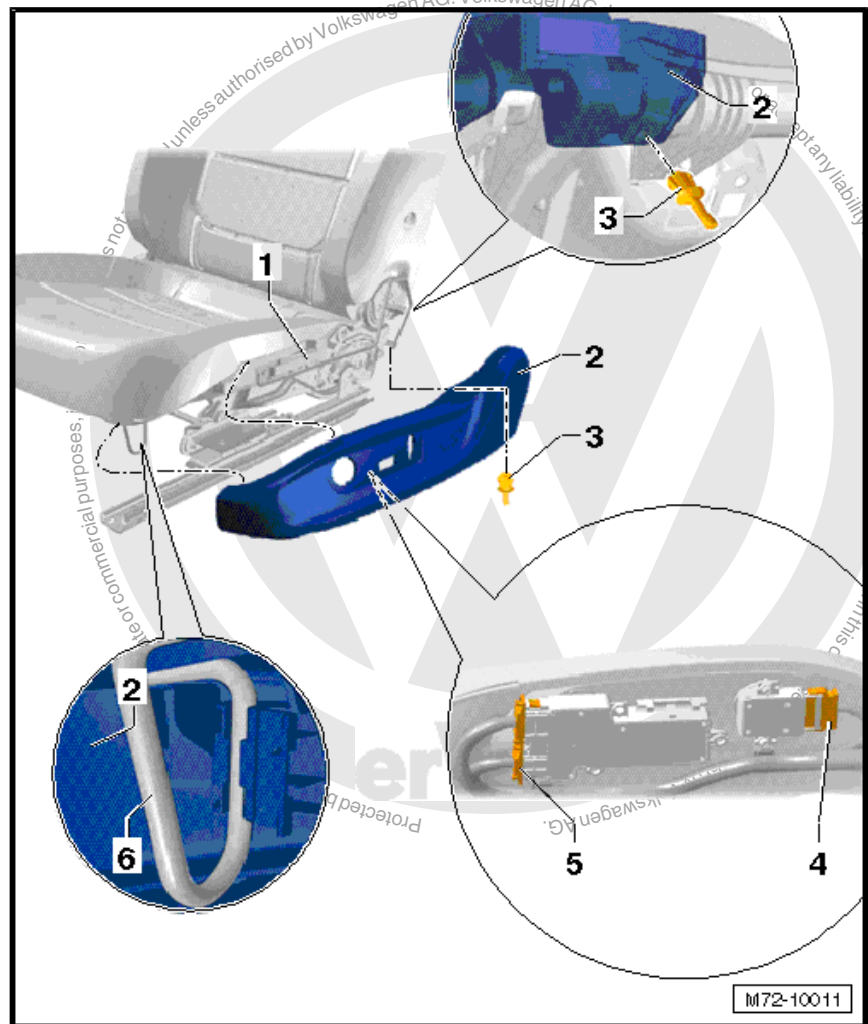


- ◆ Torque wrench -V.A.G 1783-



Removing

- Switch off ignition.
- Remove spreader clip -3- of trim -2-.
- Remove trim -6- from retaining hoop -2-.
- Remove trim -2- out of mountings of seat frame -1- in direction of travel.
- Detach connectors -4- and -5- of seat adjustment switch and remove trim -2-.



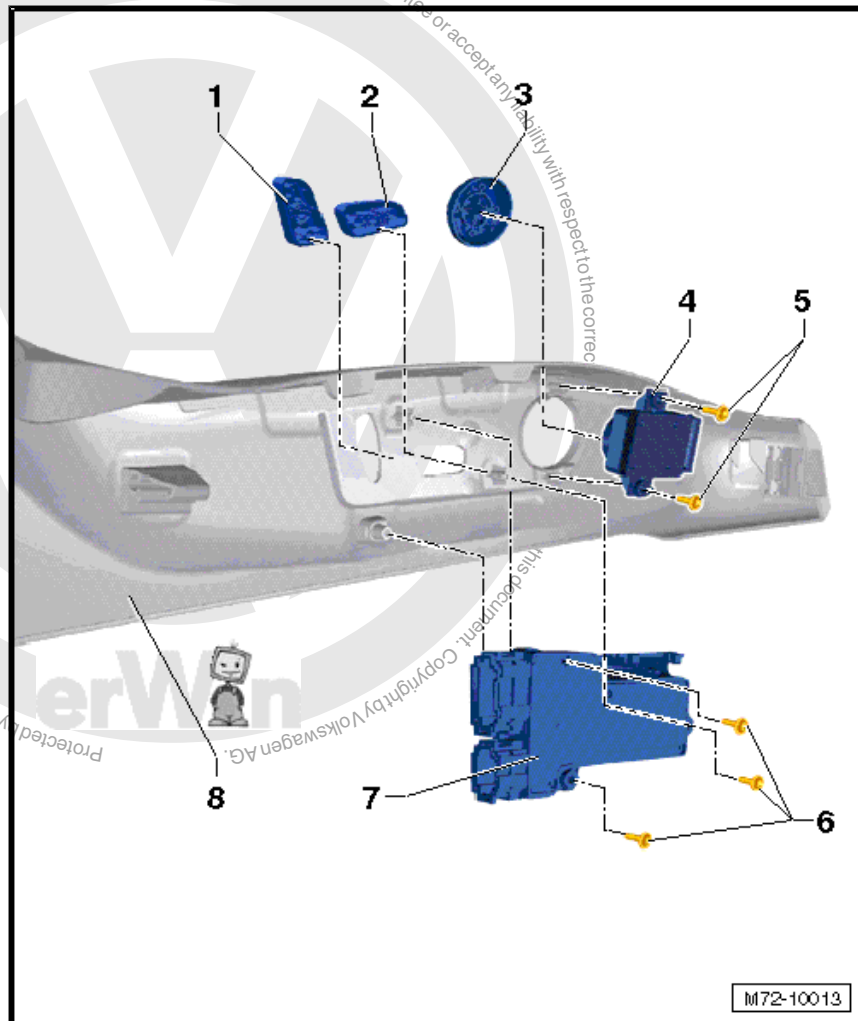


Renewing trim:

Note

If the trim on left of seat -8- is replaced, the seat adjustment switch -7- and the switch for height adjustment of the lumbar support -4- have to be removed and reinstalled.

- Remove adjusting levers -1- and -2- from seat adjustment switch -7-.
- Unscrew bolts -6- (2 Nm).
- Remove seat adjustment switch -7- from left trim on seat -8-.
- Remove adjusting lever -3- from switch for height adjustment of lumbar support -4-.
- Unscrew bolts -5- (2 Nm).
- Remove switch for height adjustment of lumbar support -4- from left trim on seat -8-.



Installing

- Install in reverse order of removal.



i Note

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

1.7 Removing and installing right trim on seat

i Note

Removal and installation is described for the left seat. Apply the same instructions for removal and installation of the right seat as appropriate.

Removing right trim on seat with manually adjustable backrest

- Remove front seat ⇒ [page 244](#) .
- Remove spreader clip -3- of trim -1-.
- Pull seat buckle outwards.

i Note

Seat belt buckle is not shown on illustration.

- Release front catches and remove trim -1- from seat frame -2-.

Removing right trim on seat with electrically adjustable backrest

- Remove front seat ⇒ [page 244](#) .
- Remove spreader clip -3- of trim -1-.
- Pull seat buckle outwards.

i Note

Seat belt buckle is not shown on illustration.

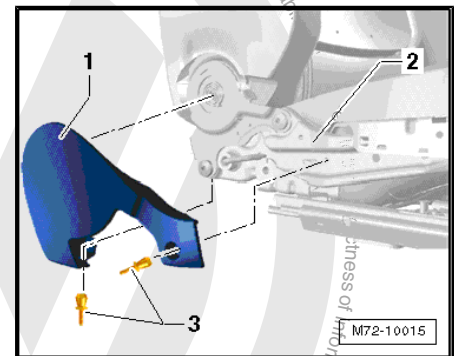
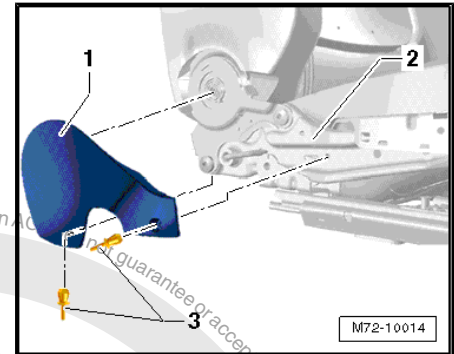
- Release front catches and remove trim -1- from seat frame -2-.

Installing

- Install in reverse order of removal.

i Note

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





1.8 Removing and installing front seat drawer together with mounting

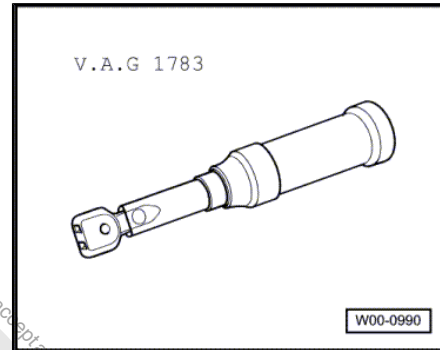


Note

Removal and installation is described for the left seat. Apply the same instructions for removal and installation of the right seat as appropriate.

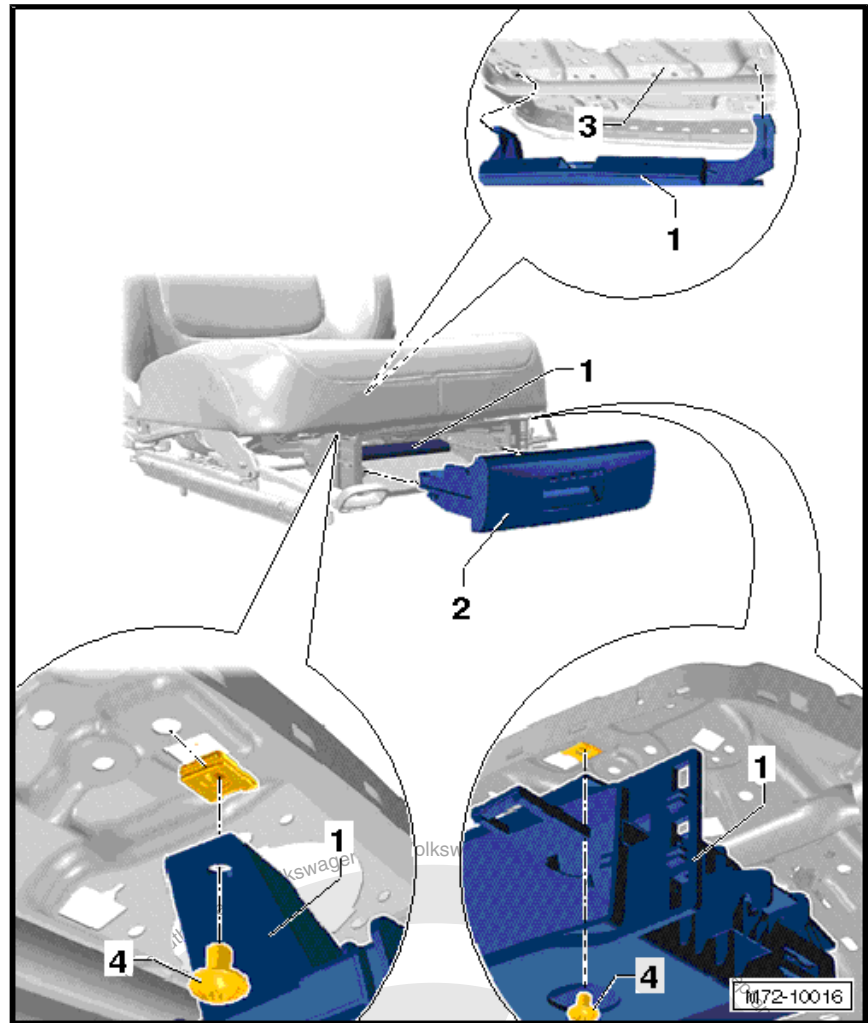
Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-



Removing

- Remove draw -2- from mounting -1-.
- Remove front seat ⇒ [page 244](#) .
- Remove left trim on seat:
 - ◆ Left trim on seat without adjustable seat height ⇒ [page 250](#) .
 - ◆ Left trim on seat with manually adjustable seat height ⇒ [page 252](#) .
 - ◆ Left trim on seat with electrically adjustable seat height ⇒ [page 254](#) .
- Unscrew bolts -4- (8 Nm).
- Detach mounting -1- from seat frame -3- and remove.



Installing

- Install in reverse order of removal.

Note

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

1.9 Removing and installing front seat bar and operating lever

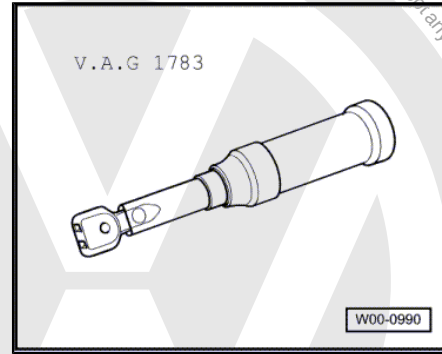
Note

Removal and installation is described for the left seat. Apply the same instructions for removal and installation of the right seat as appropriate.

Special tools and workshop equipment required

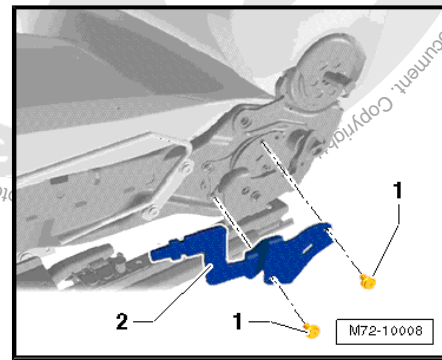


- ◆ Torque wrench -V.A.G 1783-



Removing

- Remove left trim on seat with manually adjustable seat height ⇒ [page 252](#) .
- Undo bolts -1- (8 Nm) and remove control lever -2- from seat frame.



- Undo bolts -1- (8 Nm) and remove bar -2- from seat frame.

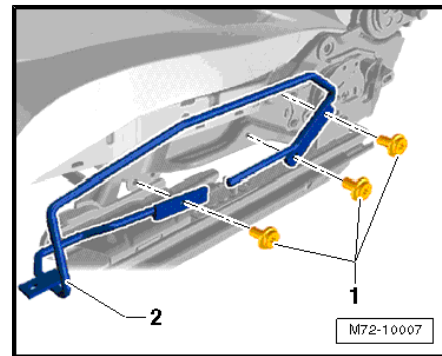
Installing

- Install in reverse order of removal.



Note

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



1.10 Removing and installing bar of electrically adjustable seat



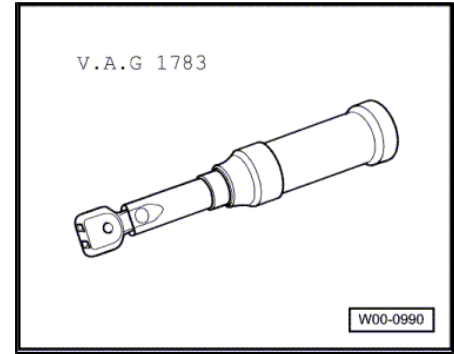
Note

Removal and installation is described for the left seat. Apply the same instructions for removal and installation of the right seat as appropriate.

Special tools and workshop equipment required

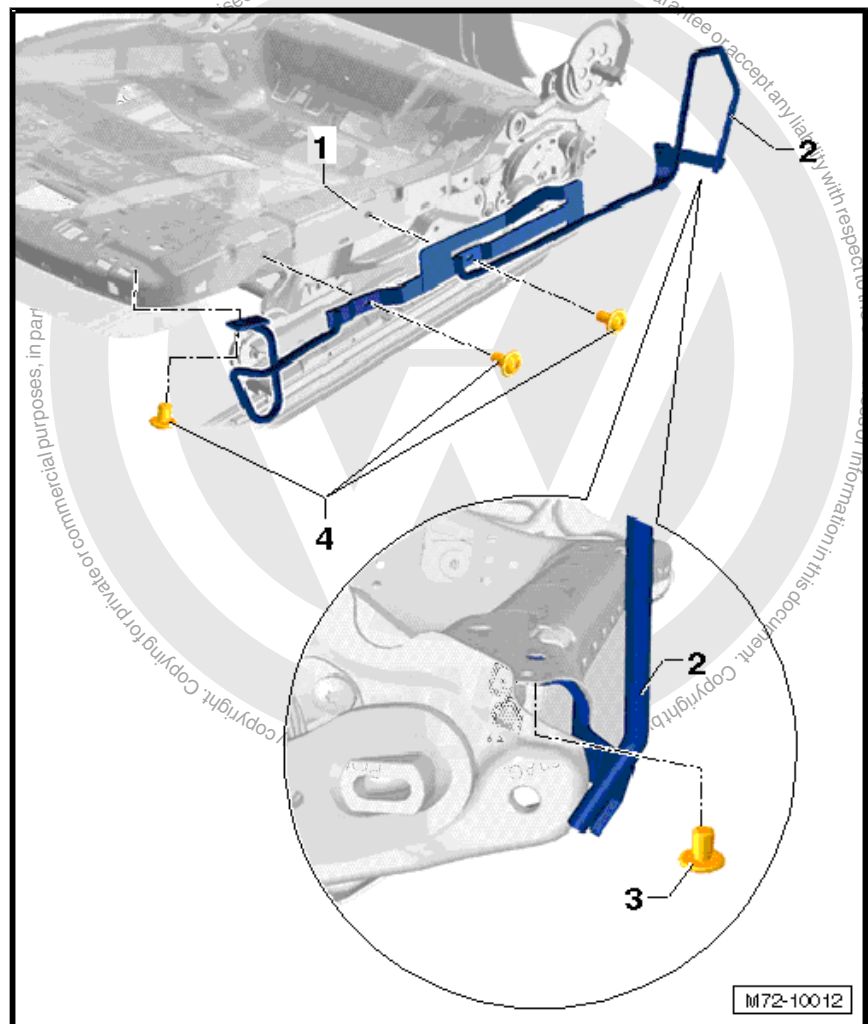


- ◆ Torque wrench -V.A.G 1783-



Removing

- Switch off ignition.
- Remove left trim on seat with electric height adjuster
⇒ [page 254](#) .
- Remove bolt -3- (7.5 Nm).
- Undo bolts -1- (7.5 Nm) and remove bracket -2- from seat frame -1-.





Installing

- Install in reverse order of removal.



Note

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

1.11 Removing and installing head restraint guides

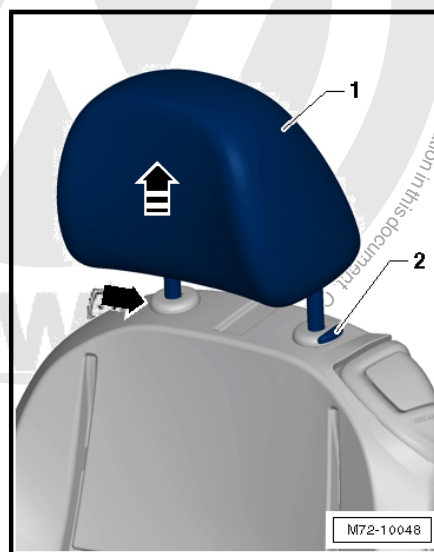


Note

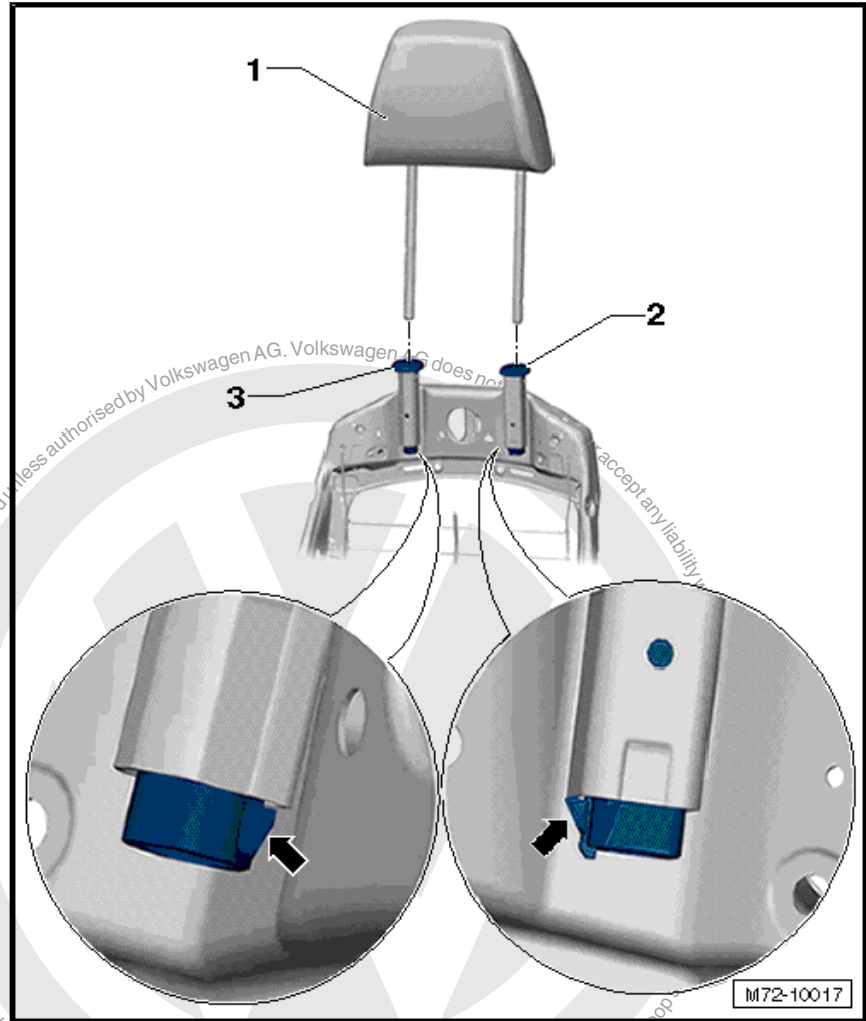
For greater clarity, the head restraint guides are shown without cover and padding.

Removing

- Press down padding by head restraint guide -arrow-.
- Press lug of head restraint guide -arrow- onto stop using removal wedge -3409- .
- Press button -2- and pull head restraint -1- out of backrest.
- Remove front seat backrest cover and padding ⇒ [page 286](#)



- Release retaining lugs -arrows-, using a screwdriver or pin, and pull head restraint guide -2- and -3- out of backrest frame.



Installing

- Install in reverse order of removal.

1.12 Removing and installing backrest



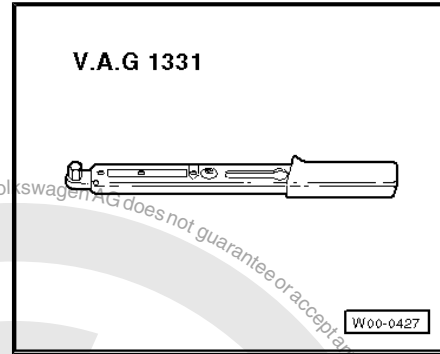
Note

Removal and installation is described for the left seat. Apply the same instructions for removal and installation of the right seat as appropriate.

Special tools and workshop equipment required



- ◆ Torque wrench -V.A.G 1331-



Removing



WARNING

- ◆ **Follow safety regulations for pyrotechnic components**
⇒ [page 1](#) .
- ◆ **Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.**

- Mount seat repair stand -VAS 6136- on engine and gearbox support -VAS 6095- .
- Remove front seat ⇒ [page 244](#) .
- Fasten seat on seat repair stand -VAS 6136- .
- Remove left trim on seat:
 - ◆ Left trim on seat without adjustable seat height ⇒ [page 250](#) .
 - ◆ Left trim on seat with manually adjustable seat height ⇒ [page 252](#) .
 - ◆ Left trim on seat with electrically adjustable seat height ⇒ [page 254](#) .
- Remove right trim on seat ⇒ [page 257](#) .

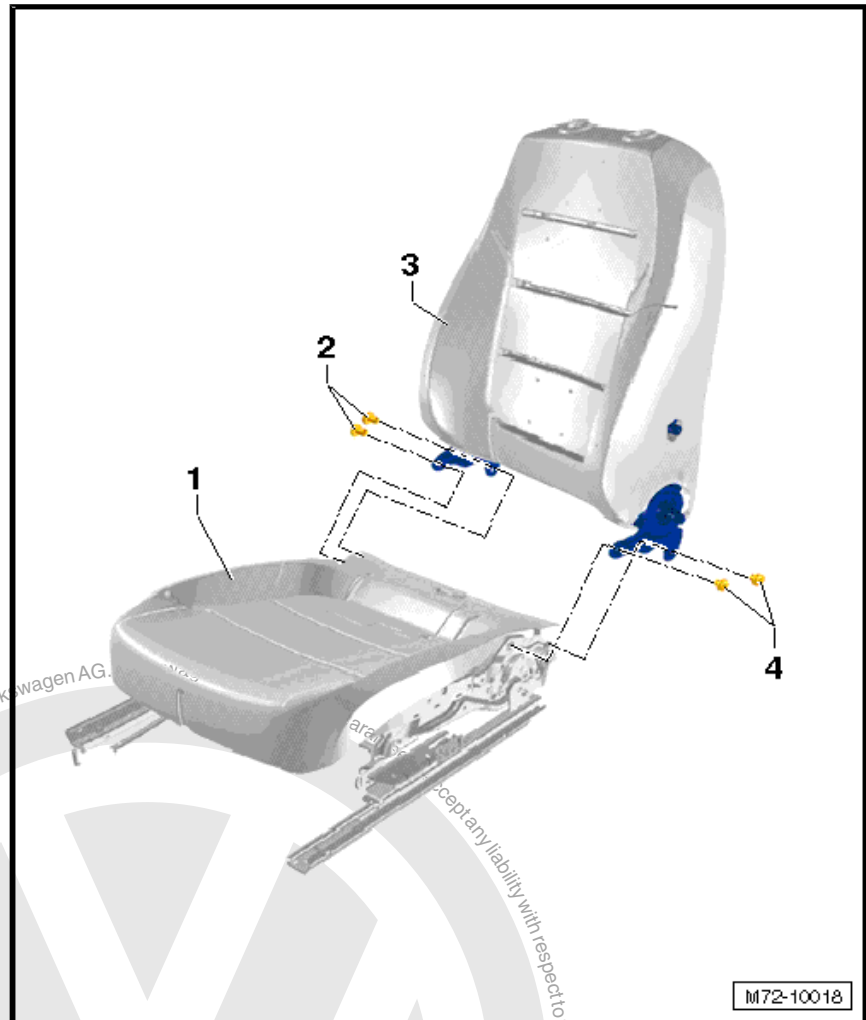
All vehicles

- Disconnect wiring harnesses from side airbag and, if necessary, wiring harnesses of seat heater from seat frame and lay wiring harnesses to side.
- Unscrew bolts -2- and -4- (35 Nm).



Note

- ◆ *The bolts are microencapsulated and must be renewed each time they are removed.*
- ◆ *Before new bolts are installed, the threads of the corresponding holes must be cleaned.*
- Remove backrest -3- from seat frame -1-.



Carry out following work:

- Install in reverse order of removal.



WARNING

- ◆ **Follow safety regulations for pyrotechnic components**
⇒ [page 1](#).
- ◆ **Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.**

1.13 Removing and installing manually adjustable lumbar support frame



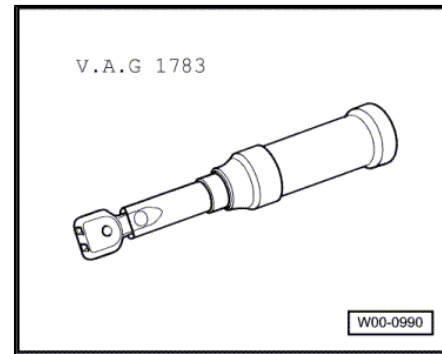
Note

Removal and installation is described for the left seat. Apply the same instructions for removal and installation of the right seat as appropriate.



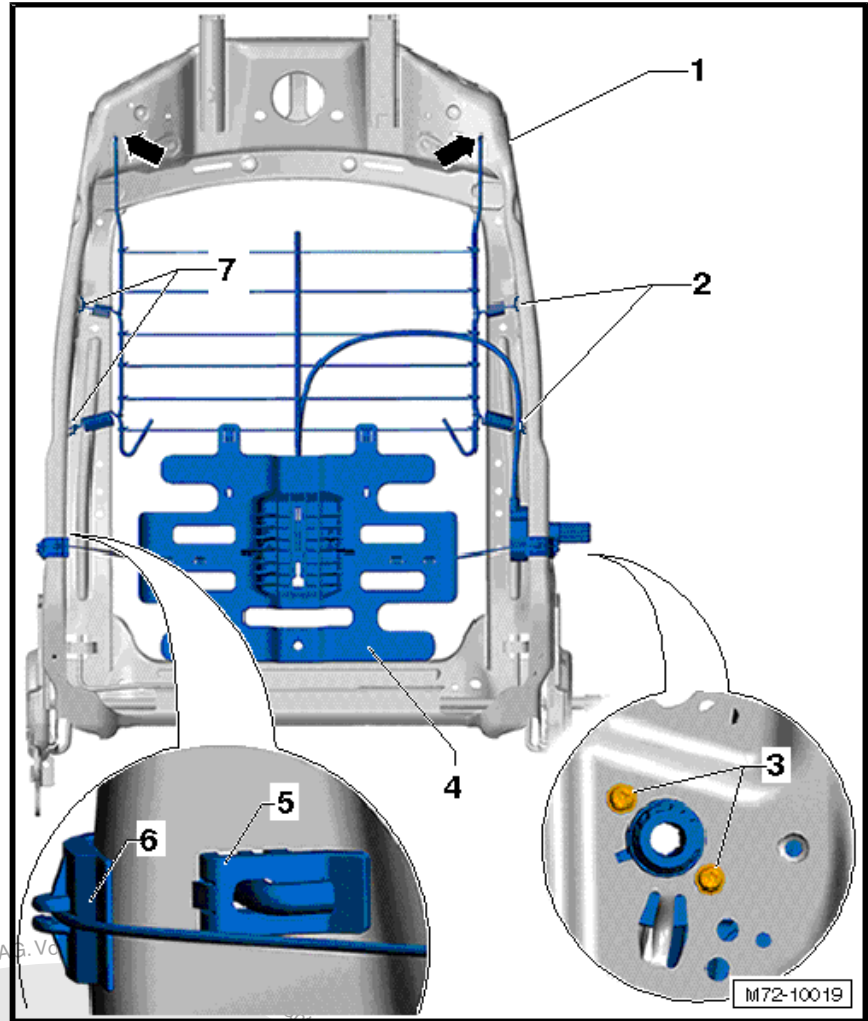
Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1783-



Removing

- Mount seat repair stand -VAS 6136- on engine and gearbox support -VAS 6095- .
- Remove front seat ⇒ [page 244](#) .
- Fasten seat on seat repair stand -VAS 6136- .
- Remove front seat backrest ⇒ [page 263](#) .
- Remove front seat backrest cover and padding ⇒ [page 286](#)
- Mount backrest on seat repair stand -VAS 6136- .
- Unscrew bolts -3- (2 Nm) and detach lumbar support height adjustment mechanism from backrest frame -1-.
- Unhook lateral fasteners -6- and -5- from backrest frame -1-.
- Unhook lateral fasteners -2- and -7- from backrest frame -1-.
- Detach lumbar support frame -4- from upper mountings -arrows-.
- Remove lumbar support frame -4- from backrest frame -1-.



Installing

- Install in reverse order of removal.



Note

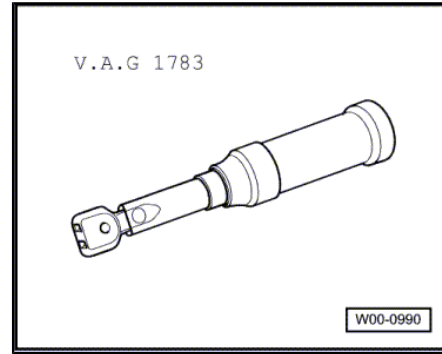
Before installing, check all fasteners for damage and renew if necessary.

1.14 Removing and installing fire extinguisher holder

Special tools and workshop equipment required



- ◆ Torque wrench -V.A.G 1783-



Removing

- Remove fire extinguisher
- Unscrew bolts -1- (5 Nm).
- Remove fire-extinguisher holder -2- from bracket -3- on seat frame.

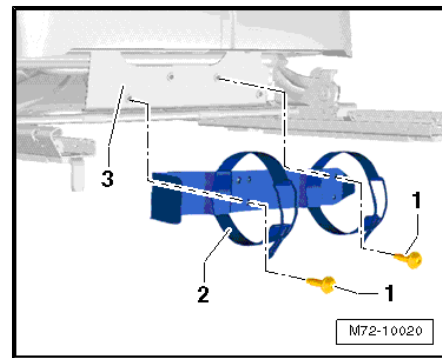
Installing

- Install in reverse order of removal.



Note

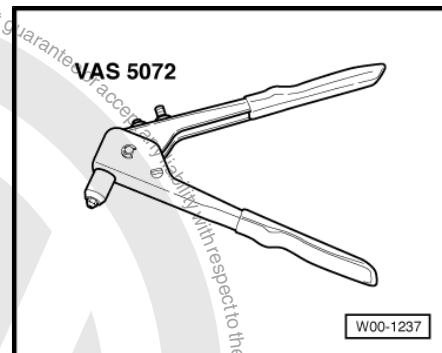
Before installing, check all fasteners for damage and renew if necessary.



1.15 Removing and installing fire extinguisher holder on seat frame

Special tools and workshop equipment required

- ◆ Pop rivet pliers -VAS 5072-



Removing

- Removing front seat cushion cover and padding
⇒ [page 280](#)
- Remove fire extinguisher
- Remove fire extinguisher holder ⇒ [page 267](#) .
- Drill open blind rivets -1- and remove.

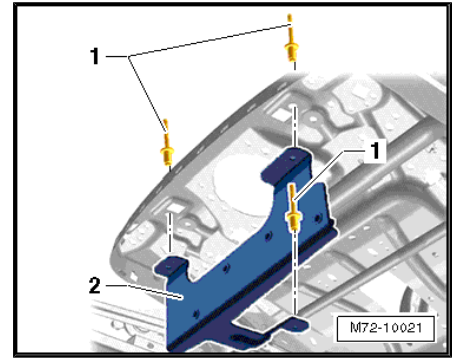




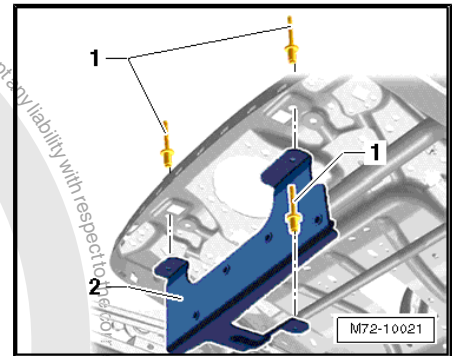
- Remove fire-extinguisher holder -2- from seat frame.

Installing

- Place bracket -2- on seat frame.



- Insert new pop rivets -1- and rivet with pop rivet pliers -VAS 5072- .
- Further assembly is performed in reverse order of removal.



1.16 Removing and installing drive for backrest adjustment (electrically adjustable seat)



Note

In event of defective backrest adjustment drive, backrest frame must be renewed.



2 Rear seats

⇒ [“2.1 Removing and installing rear bench seat”, page 270](#)

⇒ [“2.2 Removing and installing rear seat backrest”, page 271](#)

⇒ [“2.3 Removing and installing backrest release mechanism”, page 274](#)

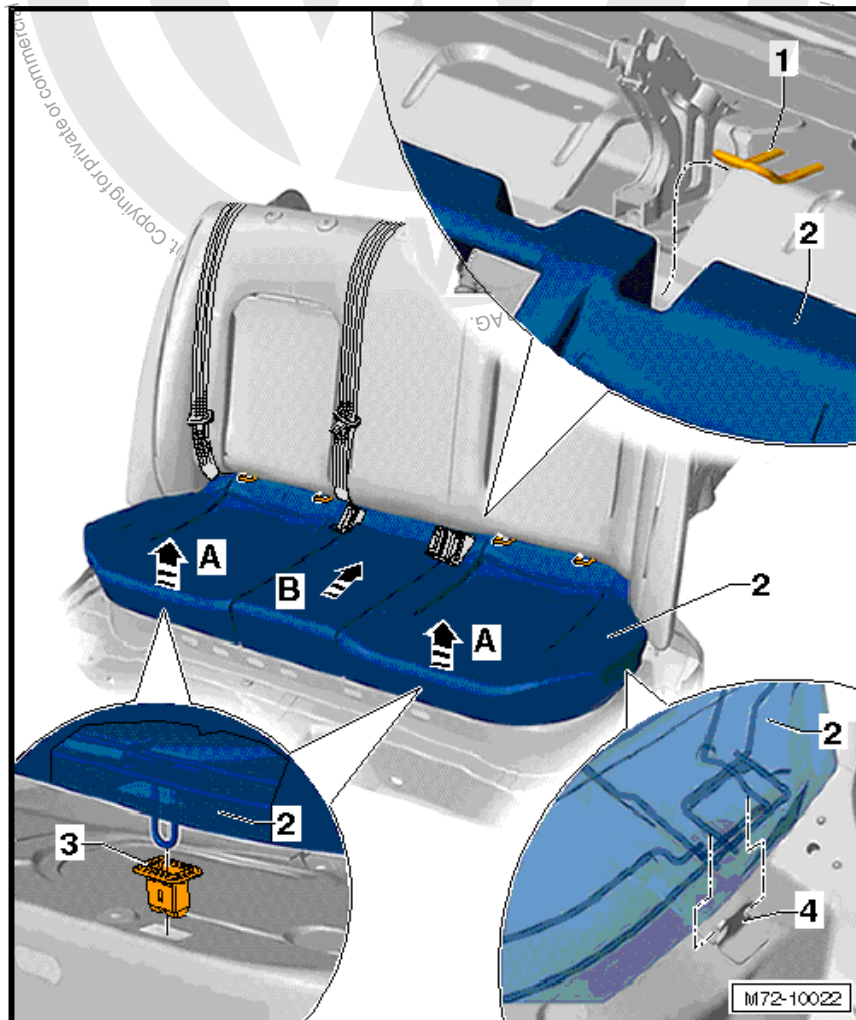
⇒ [“2.4 Removing and installing side padding with side airbag”, page 275](#)

⇒ [“2.5 Removing head restraint guides”, page 278](#)

2.1 Removing and installing rear bench seat

Removing

- Pull seat bench -2- by its front, upwards out of 2 mountings -3- in -direction of arrow A-.
- Push seat bench -2- towards the rear in -direction of arrow B-, at the same time, releasing seat bench -2- from catch -4-.
- Pull bench seat bench -2- forwards at rear off child seat anchors -1- and remove from vehicle.





Installing

Install in reverse order, but note the following:

- Check body apertures -arrow- for deformation.
- Repair any deformation using a plastic head hammer.



Note

Slight remaining deformations are permissible.

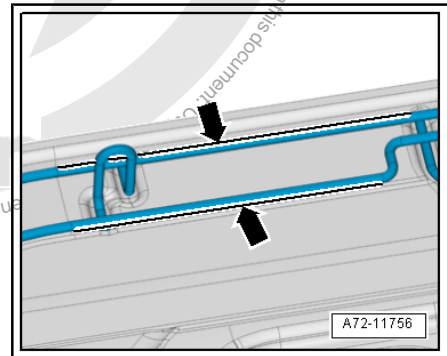
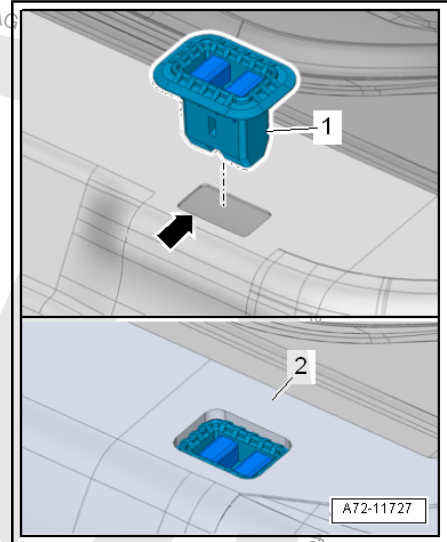
- Lift up floor covering -2- and press new mounting grommets -1- into body aperture -arrow- until they engage audibly.
- Arrange floor covering around grommet as shown in illustration.



Note

The floor covering must not cover the grommet.

- Before installing the rear bench seat, check if the wire frame is aligned properly in the highlighted area -arrows-.
- If the wire frame is bent, it must be bent back until it is properly aligned again.
- Fit rear bench seat and press wire hooks firmly into mounting grommets.
- Ensure that the wire hooks are properly engaged in the mounting grommets.



2.2 Removing and installing rear seat backrest

Removing

- Remove bench seat ⇒ [page 270](#) .
- Fold back seat covering in area of middle backrest support.
- Remove trim -2- from middle backrest support -1-.

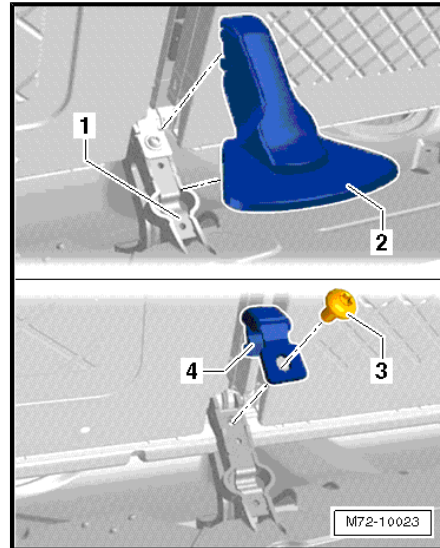


Note

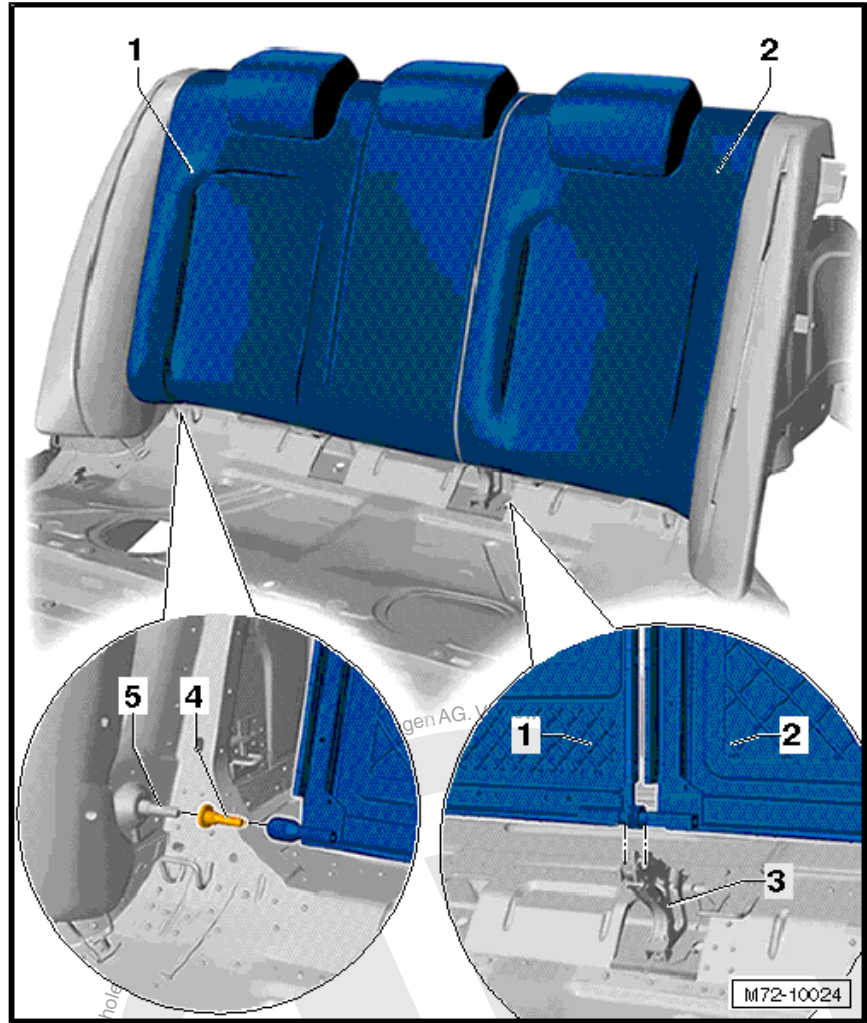
- ◆ *Trim -2- cannot be removed from middle backrest support -1- without being damaged. The trim must be renewed after each removal.*
- ◆ *In hybrid vehicles, trim -2- for middle backrest support -1- is not installed.*



- Undo bolt -3- (9 Nm) and remove retaining clamp -4-.



- Working from luggage compartment, unlock the wider backrest section -1- (2/3) and fold it down.
- Working from luggage compartment, unlock the smaller backrest section -2- (1/3) and fold it down.
- Lift the smaller backrest section -2- (1/3) out of middle backrest support -3- and pull backrest off stud -5- together with guide sleeve -4-.
- Remove smaller backrest section -2- (1/3) from vehicle.
- Lift the wider backrest section -2- (2/3) out of middle backrest support -3- and pull backrest off stud -5- together with guide sleeve -4-.
- Remove wider backrest section -2- (2/3) from vehicle.

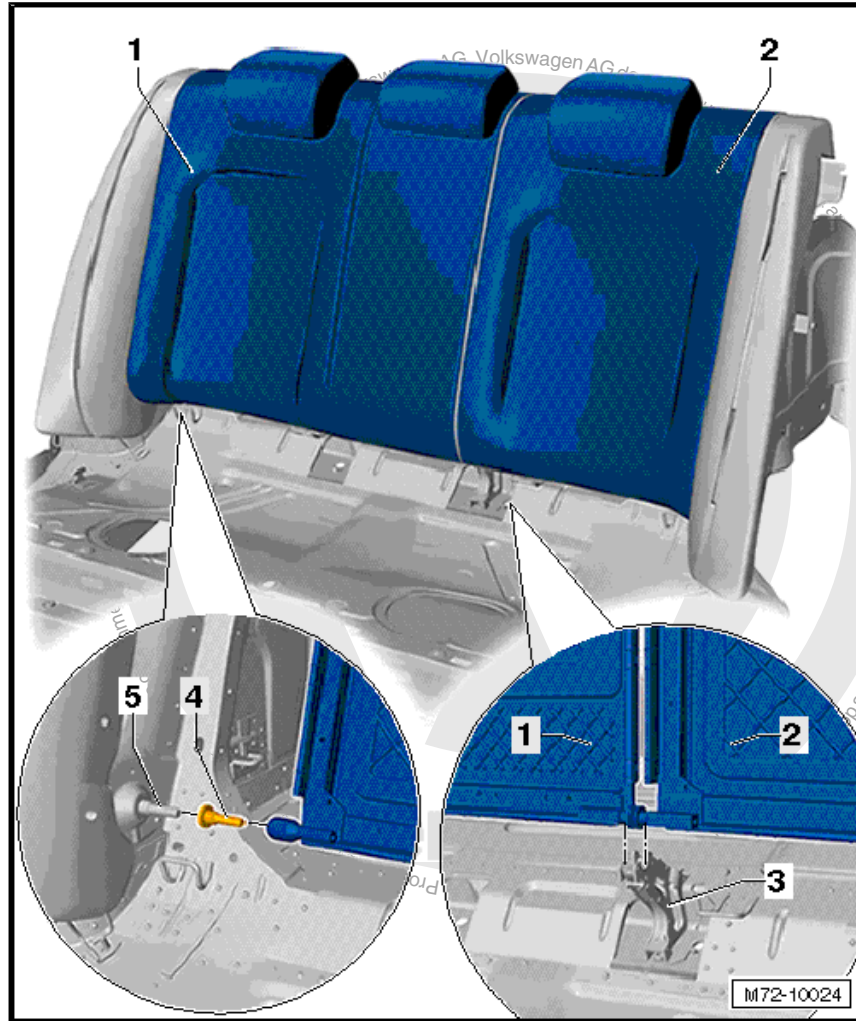


Installing



Note

During installation, it must be ensured that a guide sleeve -4- is in each of the two backrest frames -1- and -2- before backrest is mounted onto bolt -5-.

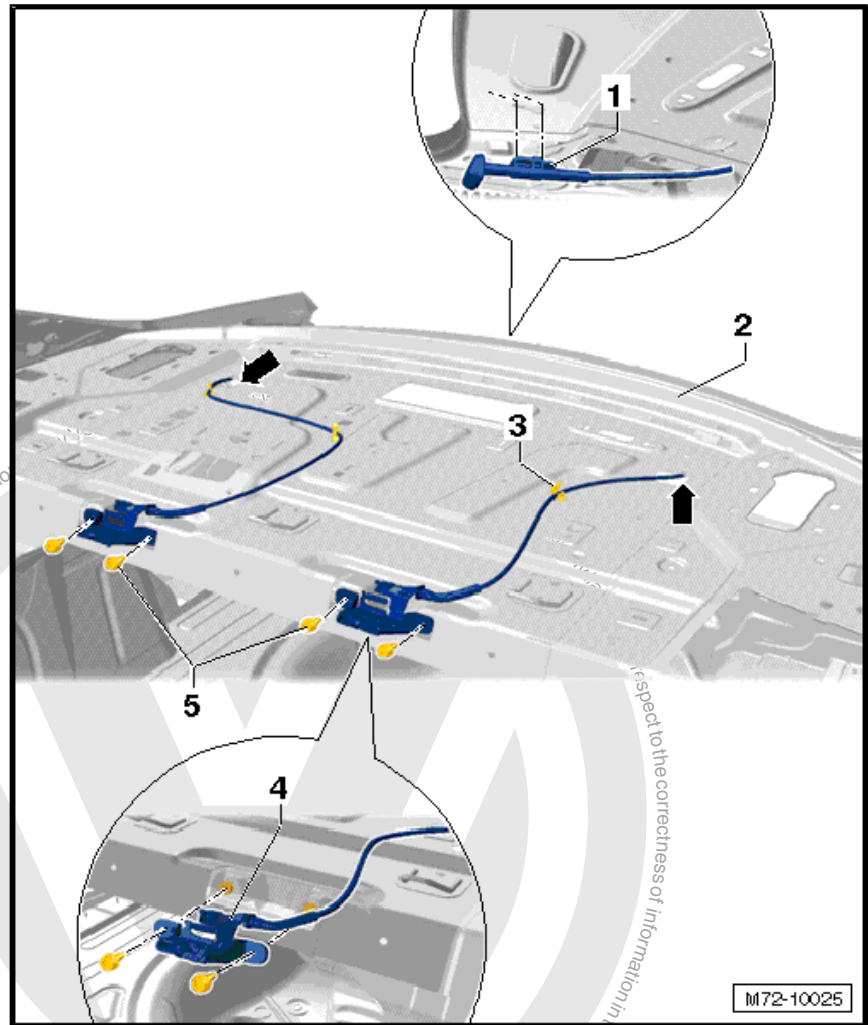


- Further installation is performed in the reverse order of removal.

2.3 Removing and installing backrest release mechanism

Removing

- Remove rear shelf ⇒ [page 211](#) .
- Remove rear shelf USA ⇒ [page 213](#) .
- Working from luggage compartment, unlock backrest 13 and fold.
- Working from luggage compartment, unlock backrest 23 and fold.
- Open retaining clamps -3- for Bowden cable.
- Working from luggage compartment, unclip unlocking unit -1- on both sides and take leads out through upper part of rear wall -2- -arrows-.
- Undo bolts -5- (8 Nm) and remove backrest unlocking unit -4- from upper part of rear wall -2-.



Installing

- Install in reverse order of removal.

Note

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

2.4 Removing and installing side padding with side airbag

Note

Removal and installation is described for the right-hand side padding. Follow same instructions for left side padding as appropriate.

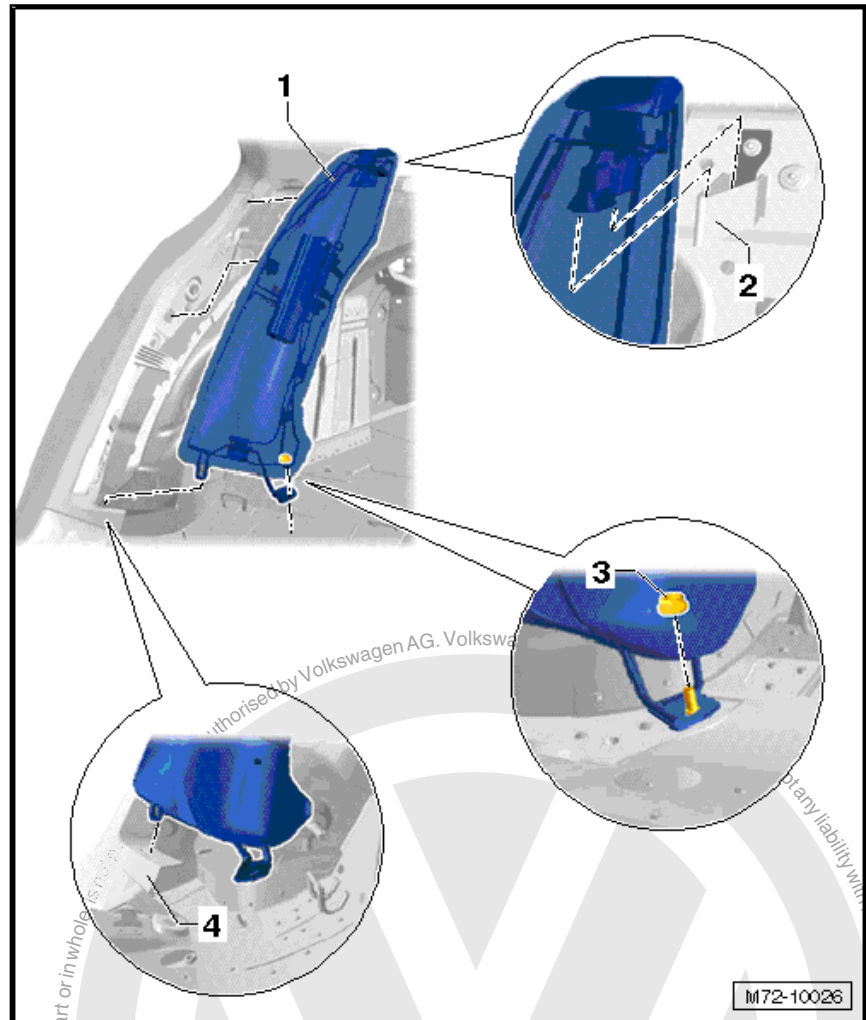


WARNING

- ◆ **Follow safety regulations for pyrotechnic components**
⇒ [page 1](#) .
- ◆ **Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.**

Removing

- Disconnect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .
- Remove bench seat ⇒ [page 270](#) .
- Remove nut -3- (8 Nm).
- Fold backrest forwards.
- Pull side padding together with side airbag -1- upwards out of mountings -2- and -4-.
- Disconnect wiring harness from rear side airbag and remove side padding together with side airbag -1- from vehicle.



Installing

Install in reverse order, but note the following:



WARNING

- ◆ *Follow safety regulations for pyrotechnic components
⇒ [page 1](#).*
- ◆ *Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.*



Note

- ◆ *Ensure electrical connector is pushed fully onto stop and engages audibly.*
- ◆ *Ensure that no cables are trapped.*



WARNING

Battery must be connected with ignition switched on. If pyrotechnic components (e.g. airbag, seat belt tensioners) are repaired incorrectly, undesired triggering may occur after the battery is connected. Ensure that nobody is in vehicle when connecting battery.

- Connect battery earth cable with ignition switched on ⇒ Electrical system; Rep. gr. 27 ; Battery; Connecting and disconnecting battery .



Note

If airbag warning lamp -K75- indicates a fault following installation, event memory must be read, deleted and read again ⇒ Vehicle diagnostic tester.

2.5 Removing head restraint guides

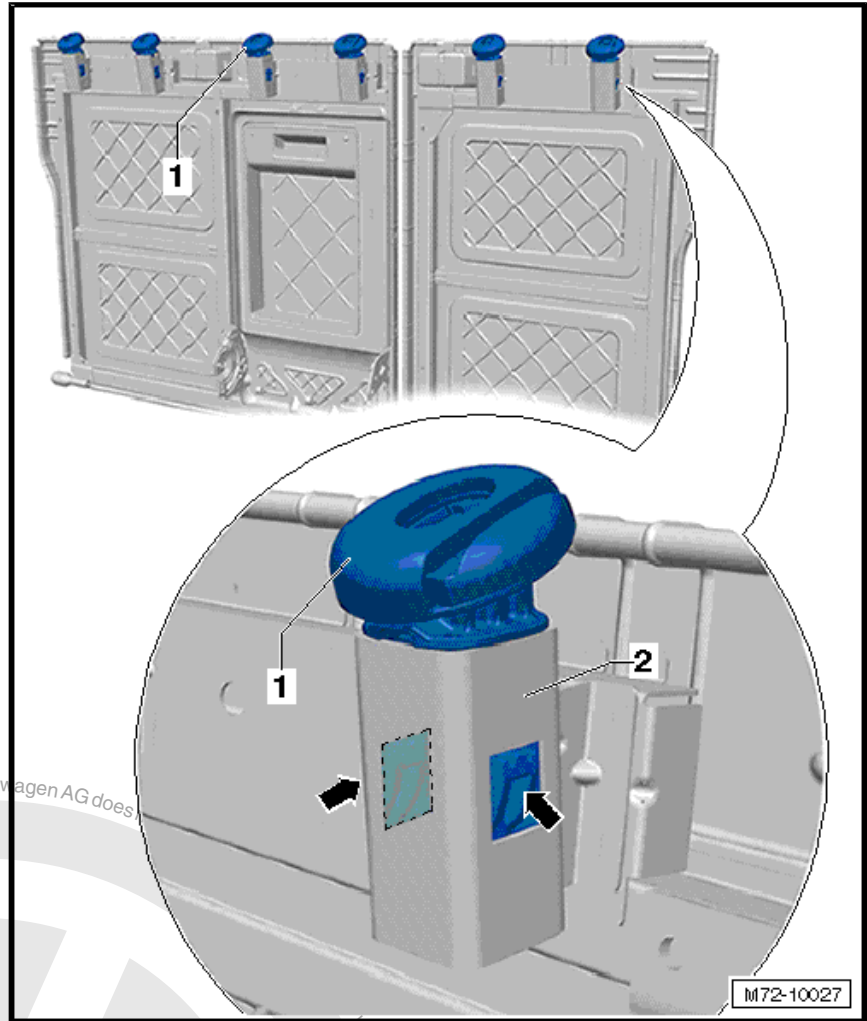


Note

Removal and installation of the head restraint guides is explained with reference to a head restraint guide of the backrest frame for the smaller backrest section (1/3). Removal and installation of all the other head restraint guides of the backrest are analogous.

Removing

- Remove backrest cover and padding ⇒ [page 297](#) .
- Release retaining lugs -arrows-, using a screwdriver or pin, and pull head restraint guide -2- out of backrest frame -1-.



Installing

- Install in reverse order of removal.



Note

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



74 – Seat - padding, covers

1 Front seat covers and padding

⇒ [“1.1 Removing and installing seat pan cover and padding”, page 280](#)

⇒ [“1.2 Removing and installing backrest cover and padding”, page 286](#)

1.1 Removing and installing seat pan cover and padding



Note

Removal and installation is described for the left seat. Apply the same instructions for removal and installation of right seat components as appropriate.



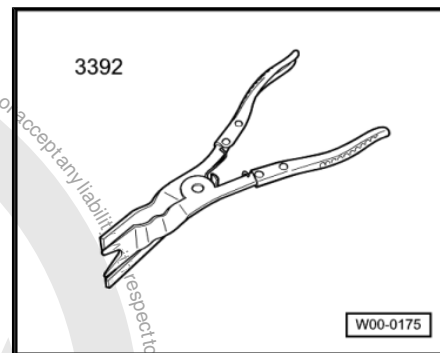
WARNING

If the seat cushion padding on the front passenger side is renewed, the seat occupied sensor, front passenger side -G128- or, in vehicles with US equipment, the pressure sensor for seat occupied recognition -G452- must always be renewed as well.

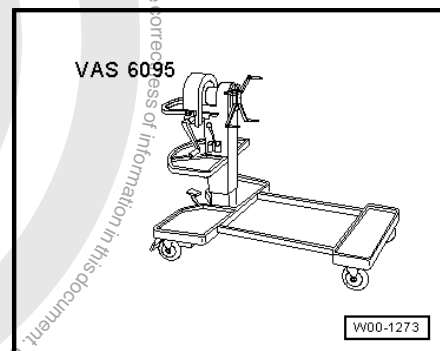
- ◆ ⇒ [“10.1 Removing and installing seat occupied sensor, front passenger side G128”, page 114](#)
- ◆ ⇒ [“11 Seat occupied recognition \(USA\)”, page 124](#)

Special tools and workshop equipment required

- ◆ Removal pliers -3392-

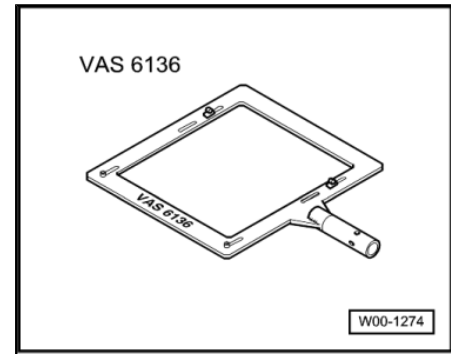


- ◆ Engine and gearbox support -VAS 6095-

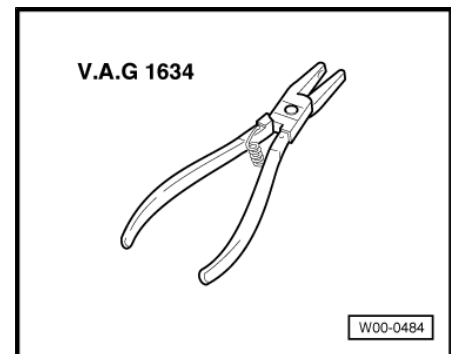




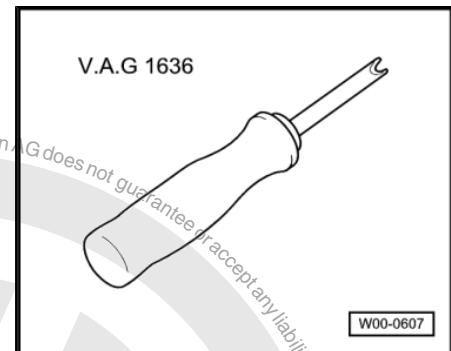
- ◆ Seat repair stand -VAS 6136-



- ◆ Upholstery clip pliers -V.A.G 1634-



- ◆ Awl -V.A.G 1636A-



Removing



WARNING

- ◆ **Follow safety regulations for pyrotechnic components**
⇒ [page 1](#) .
- ◆ **Before handling pyrotechnic components (e.g. separating the electrical connector), the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.**

- Mount seat repair stand -VAS 6136- on engine and gearbox support -VAS 6095- .
- Remove front seat ⇒ [page 244](#) .
- Fasten seat on seat repair stand -VAS 6136- .
- Remove front belt buckle ⇒ [page 71](#) .
- Remove right trim on seat ⇒ [page 257](#) .



Vehicles with manually adjustable seat

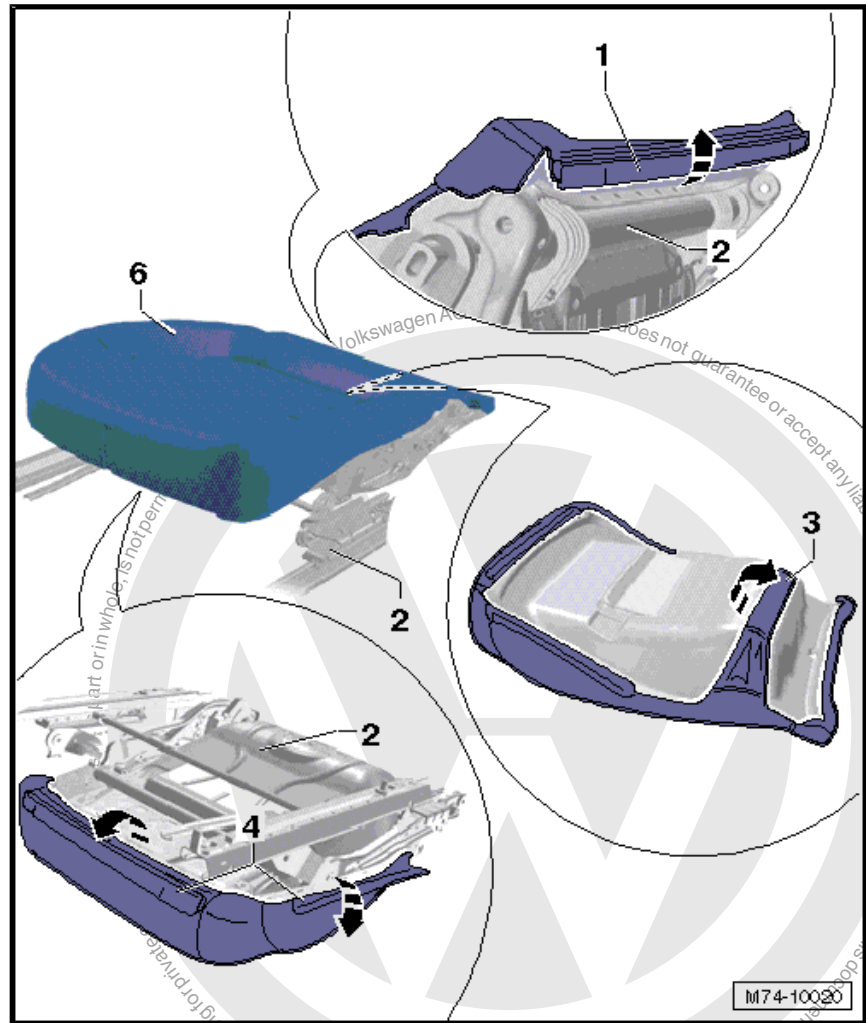
- Remove left trim on seat:
- ◆ Left trim on seat without adjustable seat height ⇒ [page 250](#) .
- ◆ Left trim on seat with manually adjustable seat height ⇒ [page 252](#) .
- Remove front seat bar and operating lever ⇒ [page 259](#) .

Vehicles with electrically adjustable seat

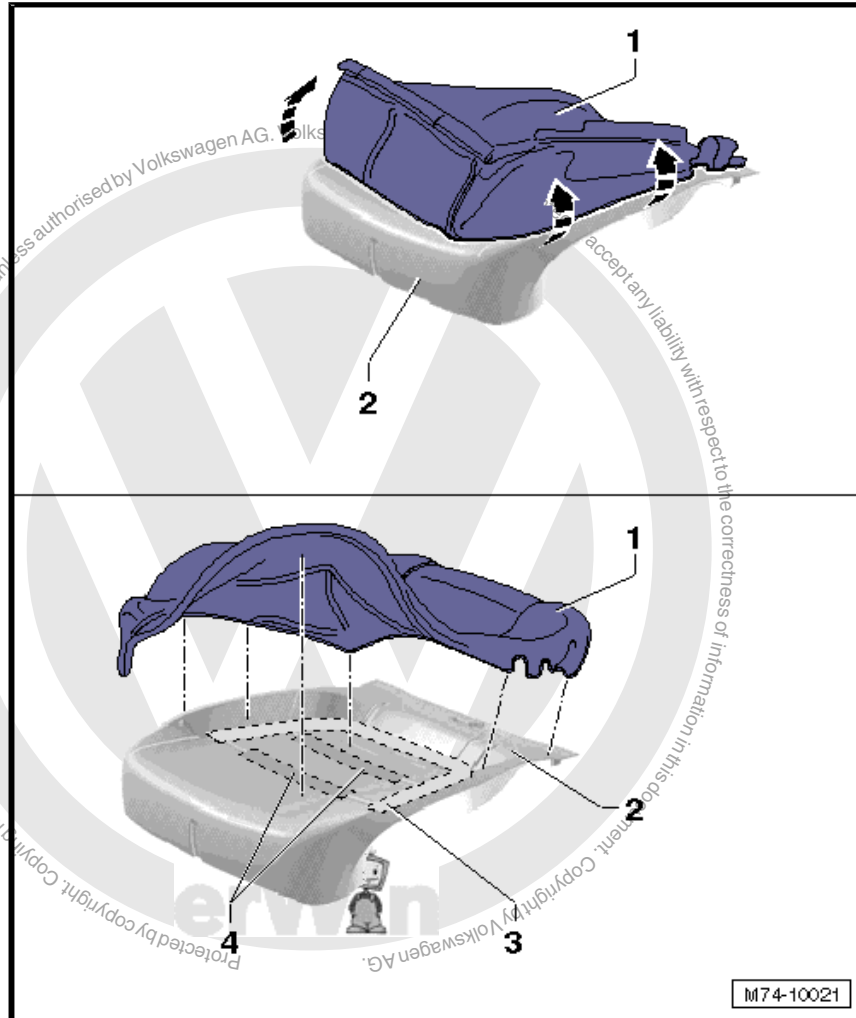
- Left trim on seat with electrically adjustable seat height ⇒ [page 254](#) .
- Remove seat bar of electrically adjustable seat ⇒ [page 260](#) .

All vehicles

- Remove mounting of front seat drawer if there is one ⇒ [page 258](#) .
- Remove front seat backrest ⇒ [page 263](#) .
- Detach gripper -1- from mounting on seat frame -2-.
- Detach grippers -4- on all sides of the seat frame -2-.
- Detach wiring harnesses from seat frame if vehicle has seat heating and seat occupied sensor system.
- Remove cover and padding of front seat cushions -6- from seat frame -2-.
- Remove cover -3- from padding of front seat cushion in -direction of arrow-.



- Roll outer edges of cover -1- upwards in -direction of arrow- off the padding of front seat cushion -2-.
- Detach the anchoring pins of the cover -1- from their mountings in the padding -area 4-, using a small screwdriver.
- Remove all padding clips of the cover -1- from the padding in -area 3-.
- Remove cover -1- from padding of front seat cushion -2-.



Vehicles with seat occupied recognition and seat heater



WARNING

The seat occupied sensor, front passenger side -G128- -1- or the pressure sensor for seat occupied recognition -G452- -4- (only for USA vehicles), the seat heater element -3- and the seat cushion padding on the front passenger side -2- must not be separated.

If one of these components is defective and has to be replaced, all the other components have to be replaced as well.



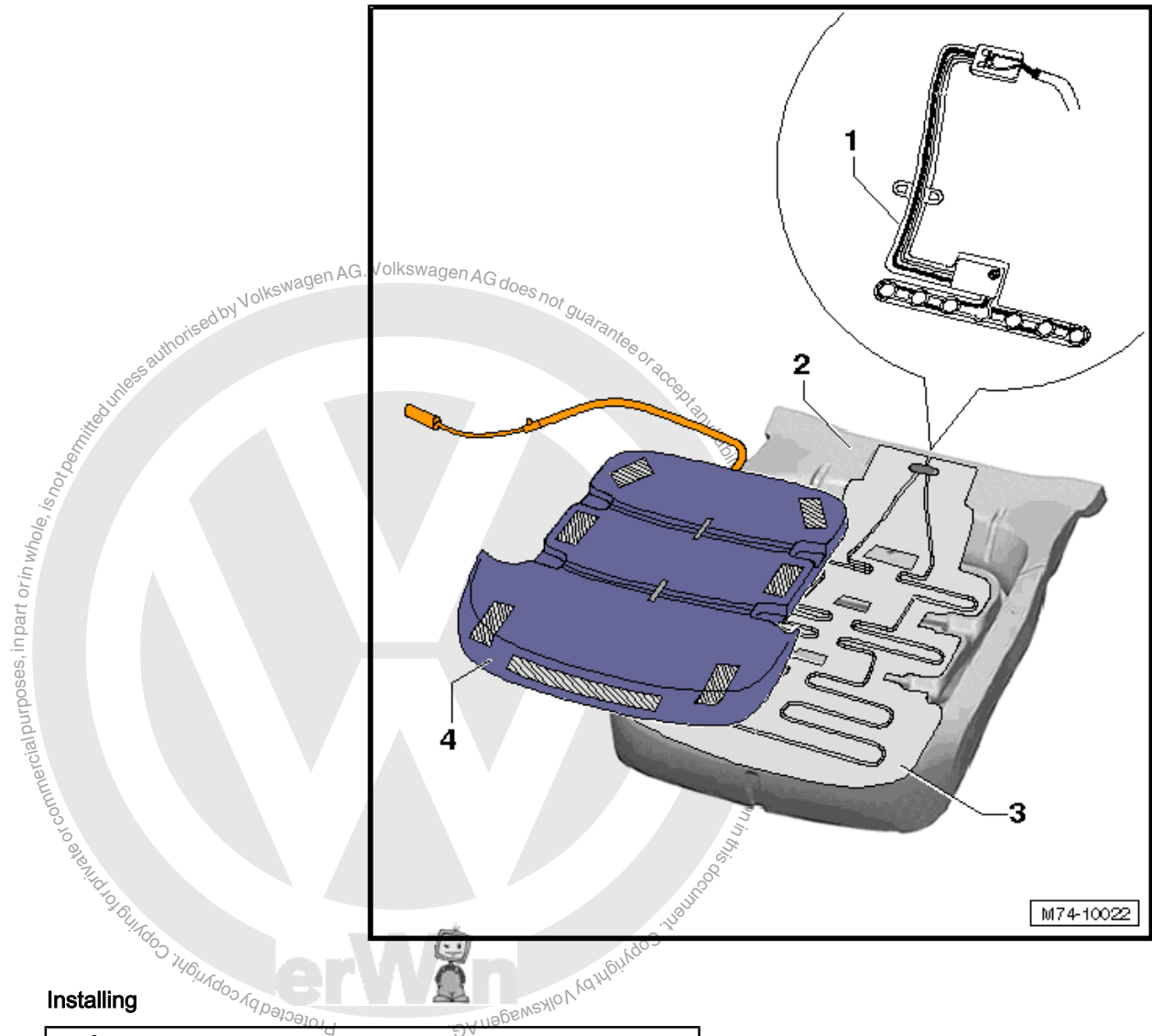
Note

When installing the individual components, make sure that the seat occupied sensor, front passenger side -G128- -1- is fitted under the seat heating element -3- and that the pressure sensor for seat occupied recognition -G452- -4- (only in US vehicles) is always fitted over the seat heating element -3-.

- ◆ Installing seat occupied recognition sensor, front passenger side -G128- ⇒ [page 114](#) .



- ◆ Installing pressure sensor for seat occupied recognition - G452- => [page 130](#) .



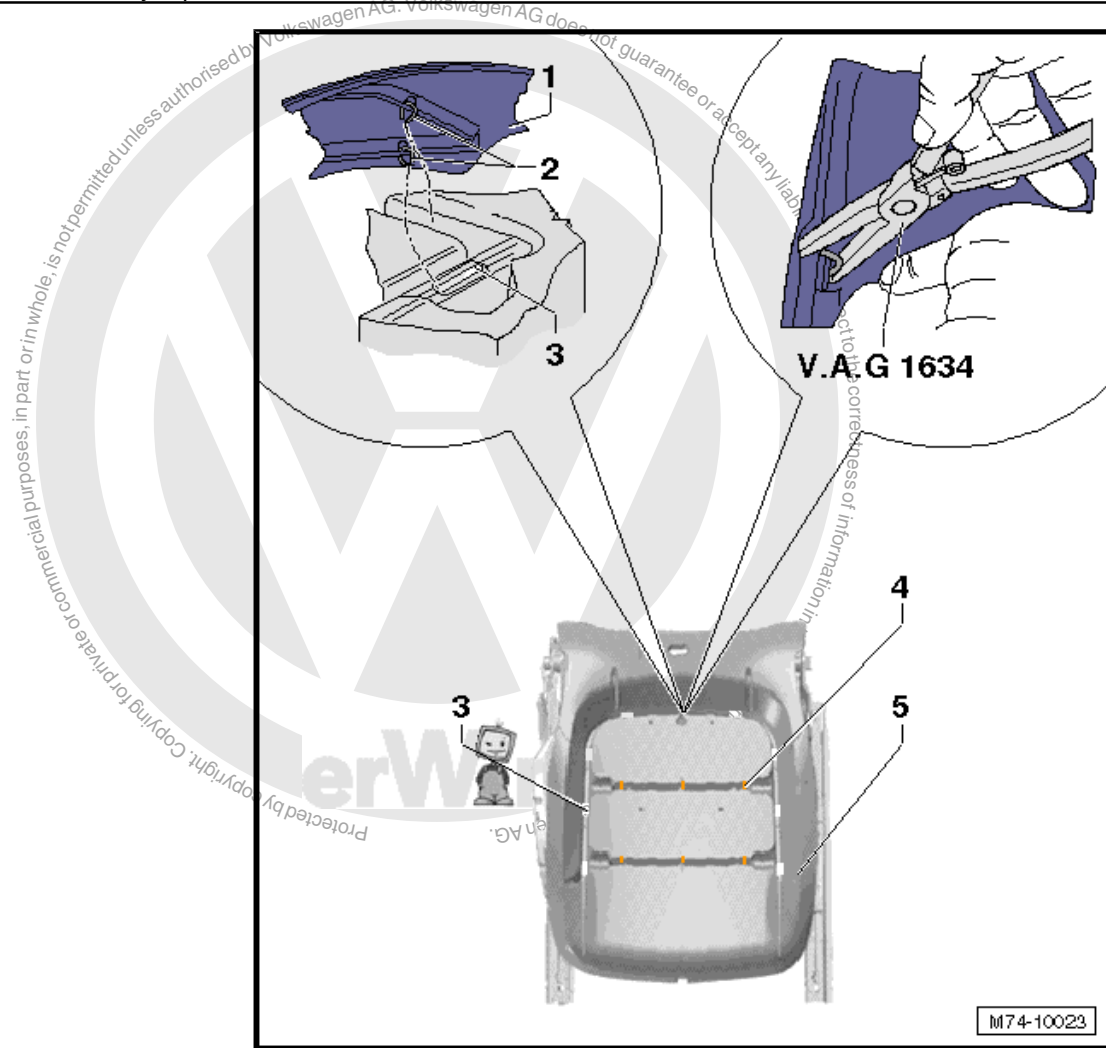
Installing



WARNING

- ◆ **Follow safety regulations for pyrotechnic components => [page 1](#) .**
- ◆ **Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.**

- Place padding -5- on seat frame
- Clip cover -1- in area of anchoring pins -4- to padding -5-.
- Fasten cover -1- to padding -4- all round it with new padding clips -2- at the positions indicated -3-, using the padding clip pliers -V.A.G 1634- .



Further assembly is performed in reverse order of removal.

1.2 Removing and installing backrest cover and padding



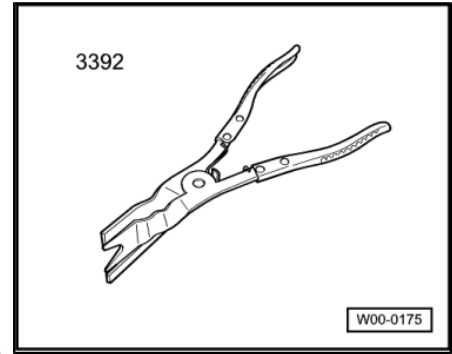
Note

Removal and installation is described for the left seat. Apply the same instructions for removal and installation of right seat components as appropriate.

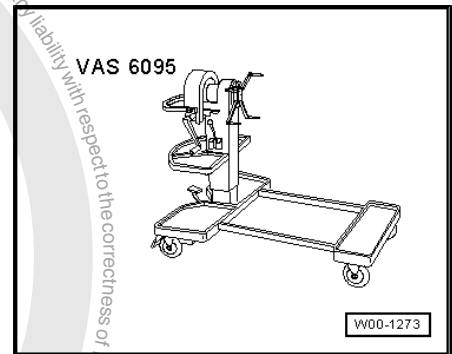
Special tools and workshop equipment required



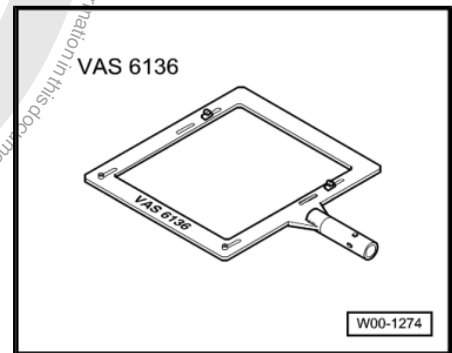
- ◆ Removal pliers -3392-



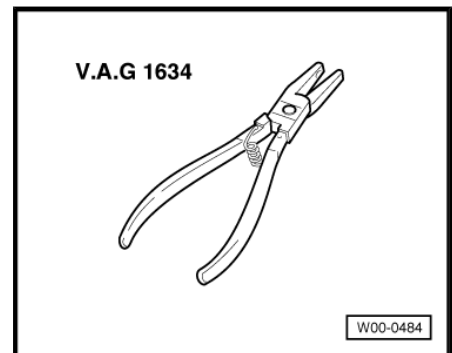
- ◆ Engine and gearbox support -VAS 6095-



- ◆ Seat repair stand -VAS 6136-

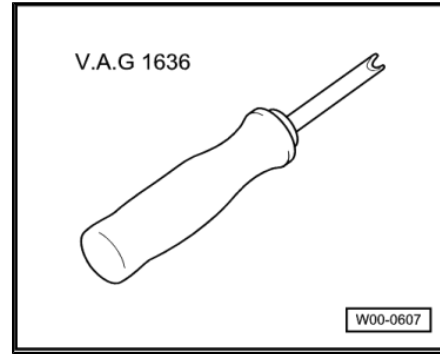


- ◆ Upholstery clip pliers -V.A.G 1634-





- ◆ Awl -V.A.G 1636A-



Removing



WARNING

- ◆ **Follow safety regulations for pyrotechnic components**
⇒ [page 1](#) .
- ◆ **Before handling pyrotechnic components (e.g. separating the electrical connector); the person handling them must "electrically discharge" himself/herself. To do this e.g. briefly touch the door striker plate.**

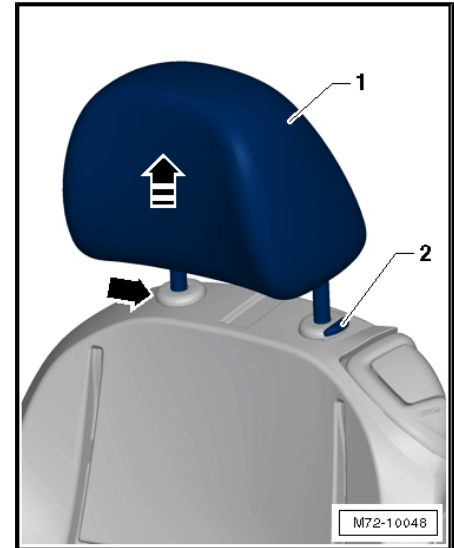
- Mount seat repair stand -VAS 6136- on engine and gearbox support -VAS 6095- .
- Remove front seat ⇒ [page 244](#) .
- Fasten seat on seat repair stand -VAS 6136- .
- Remove left trim on seat:
 - ◆ Left trim on seat without adjustable seat height ⇒ [page 250](#) .
 - ◆ Left trim on seat with manually adjustable seat height ⇒ [page 252](#) .
 - ◆ Left trim on seat with electrically adjustable seat height ⇒ [page 254](#) .
- Remove right trim on seat ⇒ [page 257](#) .

All vehicles

- Remove front seat backrest ⇒ [page 263](#) .
- Mount backrest on seat repair stand -VAS 6136- .



- Press down padding by head restraint guide -arrow-.
- Press lug of head restraint guide -arrow- onto stop using removal wedge -3409- .
- Press button -2- and pull head restraint -1- out of backrest.



Vehicles with manual adjustment of lumbar support height

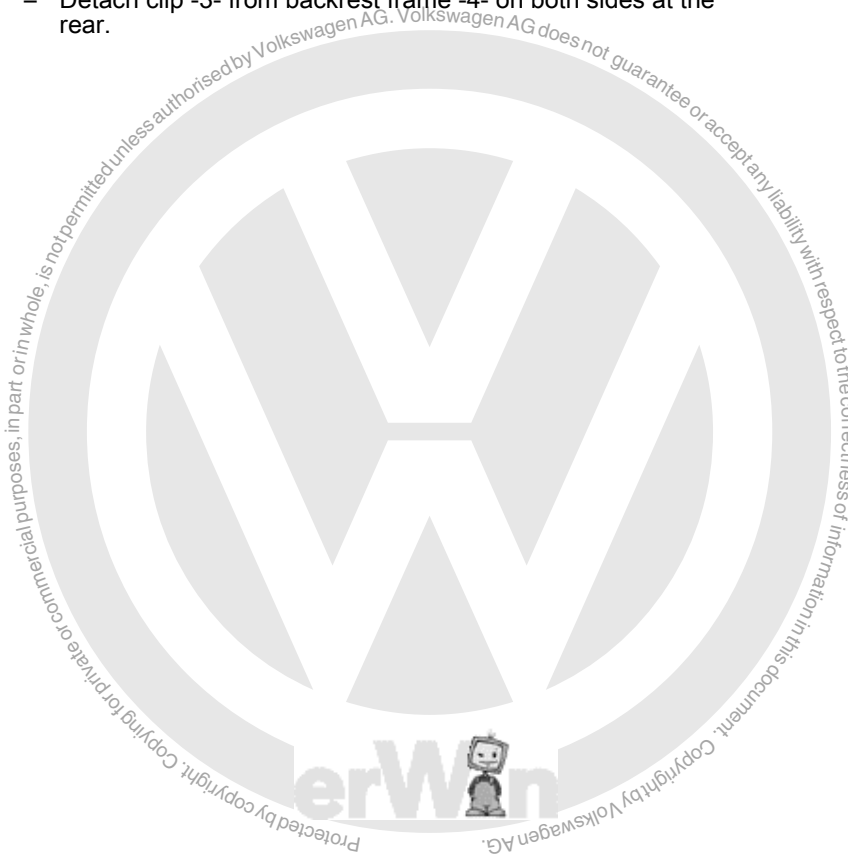
- Remove lumbar adjusting lever -2- using removal pliers -3392- .

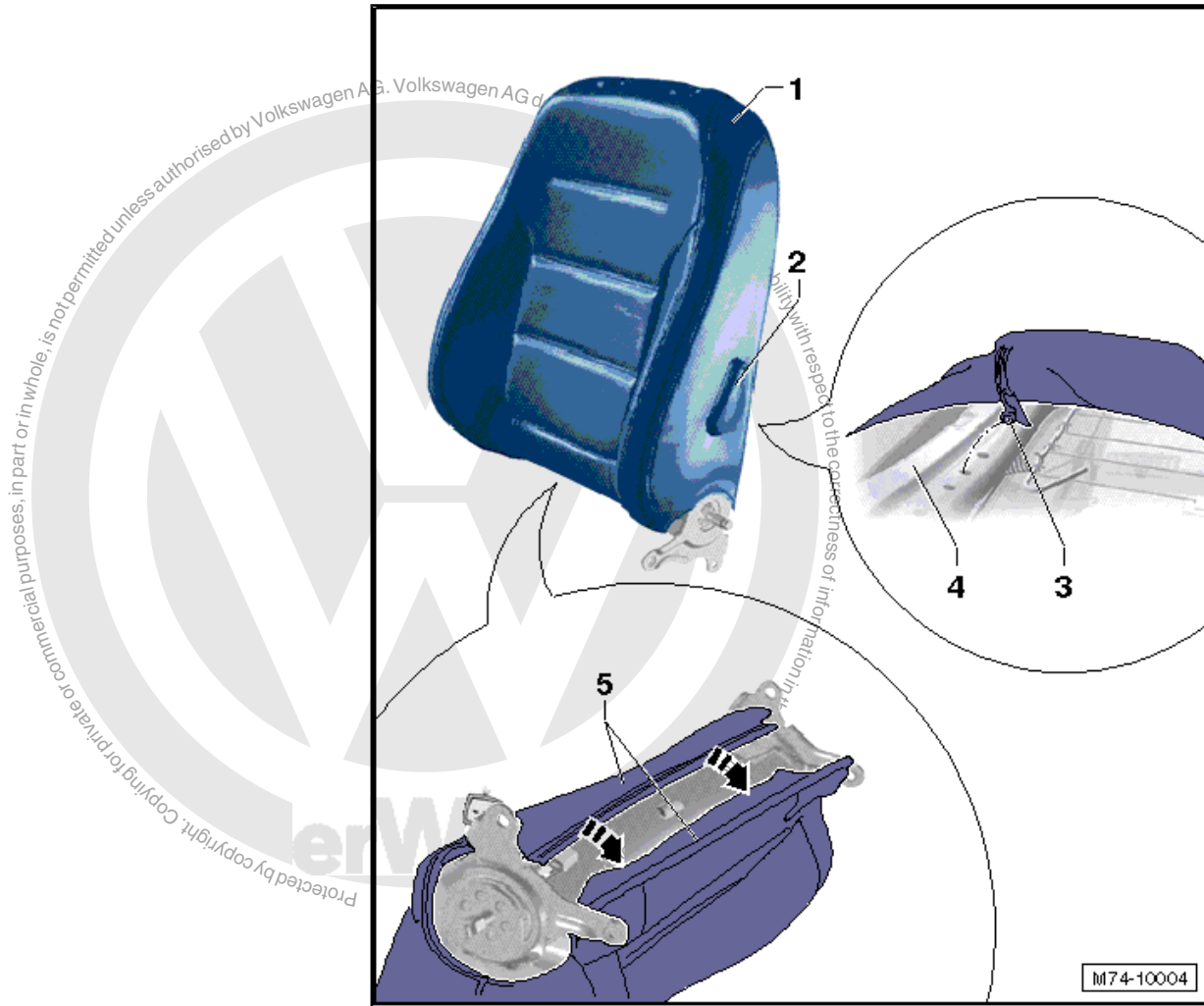
All vehicles

- Open gripper -5- in -direction of arrow-.

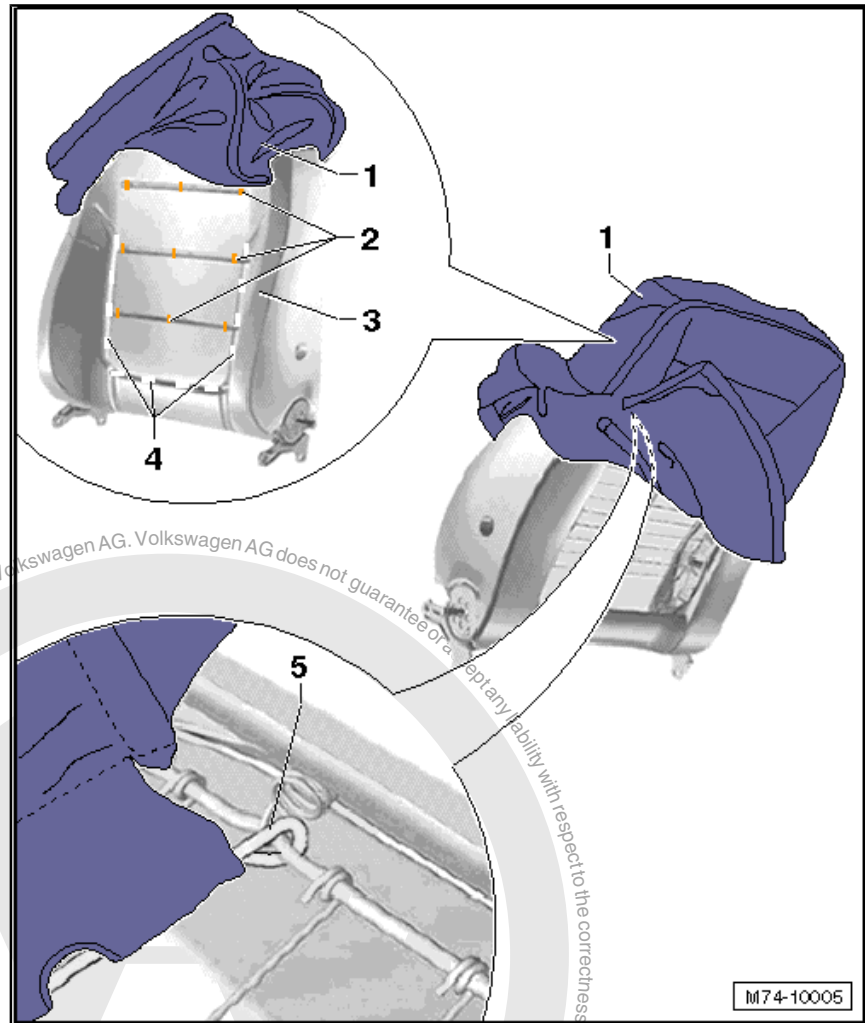
Cover with map pocket

- Detach clip -3- from backrest frame -4- on both sides at the rear.





- Roll backrest cover -1- upwards a little.
- Unhook clamping wire -5- from backrest frame on left and right.
- Remove cover padding clips -1- on padding -4- alternately and release cover clip retainer -1- from mountings in padding -2- using a small screwdriver.
- When doing this, roll cover -1- further upwards and remove from padding -3-.
- Push padding -3- over the two head restraint guides and remove from backrest frame.



M74-10005

Vehicles with seat heating



Note

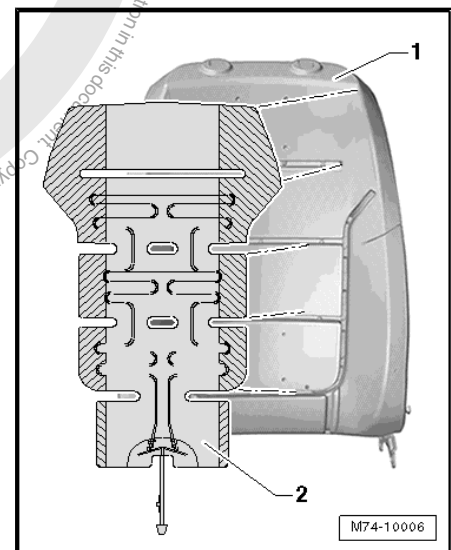
If on models with seat heating the padding -1- or backrest heater element -2- are defective, always replace both elements.

Installing



WARNING

- ◆ **Follow safety regulations for pyrotechnic components ⇒ page 1 .**
- ◆ **Before handling pyrotechnic components (e.g. connecting the electrical connector), the person handling them must ensure that he/she is "electrically discharged". To do this e.g. briefly touch the door striker plate.**

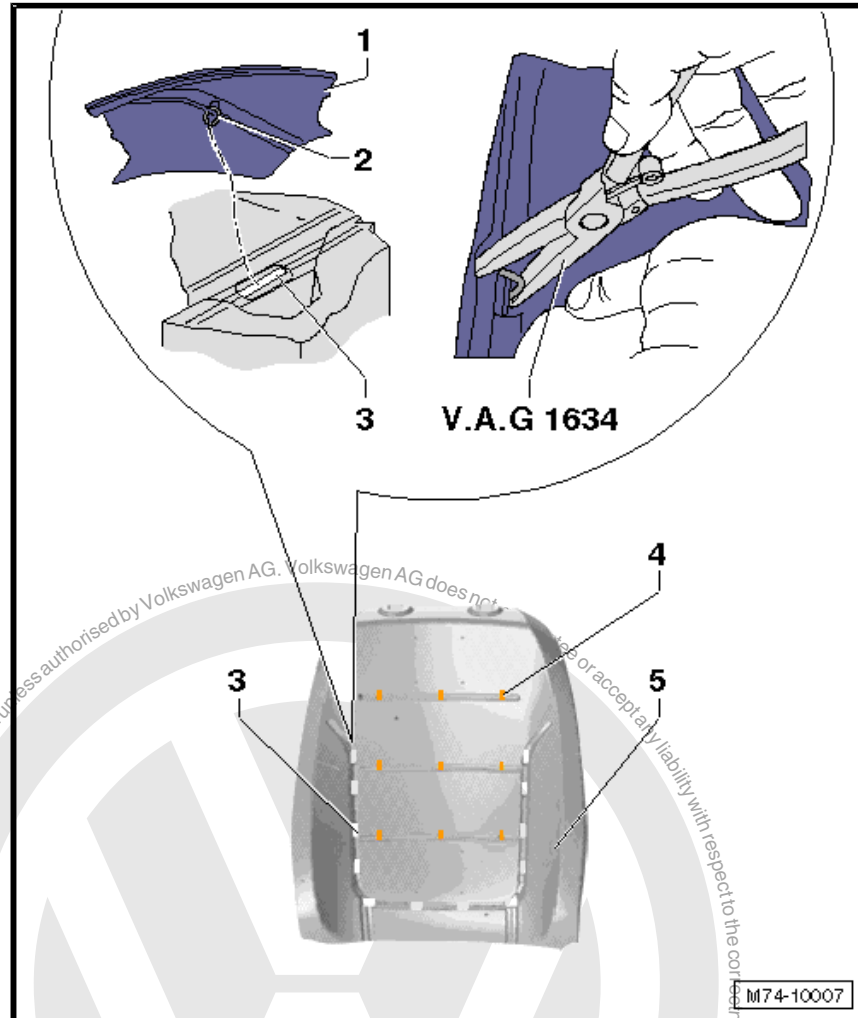


M74-10006

- Push padding -5- down over the two head restraint guides and onto backrest frame.



- Clip cover -1- in area of anchoring pins -4- to padding -5-.
- Fasten cover -1- to padding -5- all round it with new padding clips -2- at the positions indicated -3-, using the padding clip pliers -V.A.G 1634- .



Further assembly is performed in reverse order of removal.



2 Rear seat covers and padding

⇒ ["2.1 Removing and installing bench seat cover and padding", page 293](#)

⇒ ["2.2 Removing and installing cover and padding for smaller backrest section \(1/3\)", page 297](#)

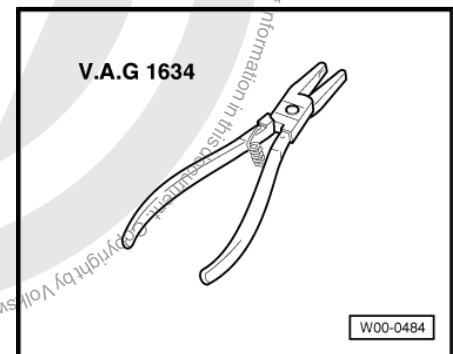
⇒ ["2.3 Removing and installing cover and padding for wider backrest section \(2/3\)", page 301](#)

⇒ ["2.4 Removing and installing through-loading unit with centre armrest", page 305](#)

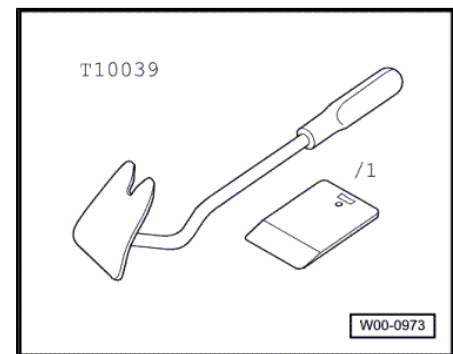
2.1 Removing and installing bench seat cover and padding

Special tools and workshop equipment required

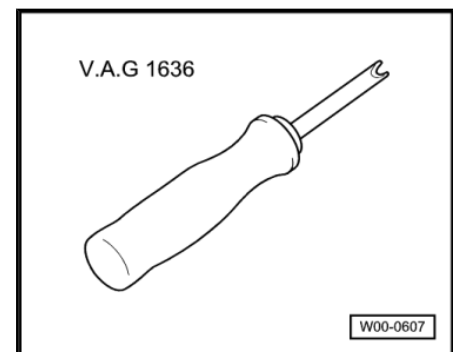
- ◆ Upholstery clip pliers -V.A.G 1634-



- ◆ Release lever -T10039-



- ◆ Awl -V.A.G 1636A-

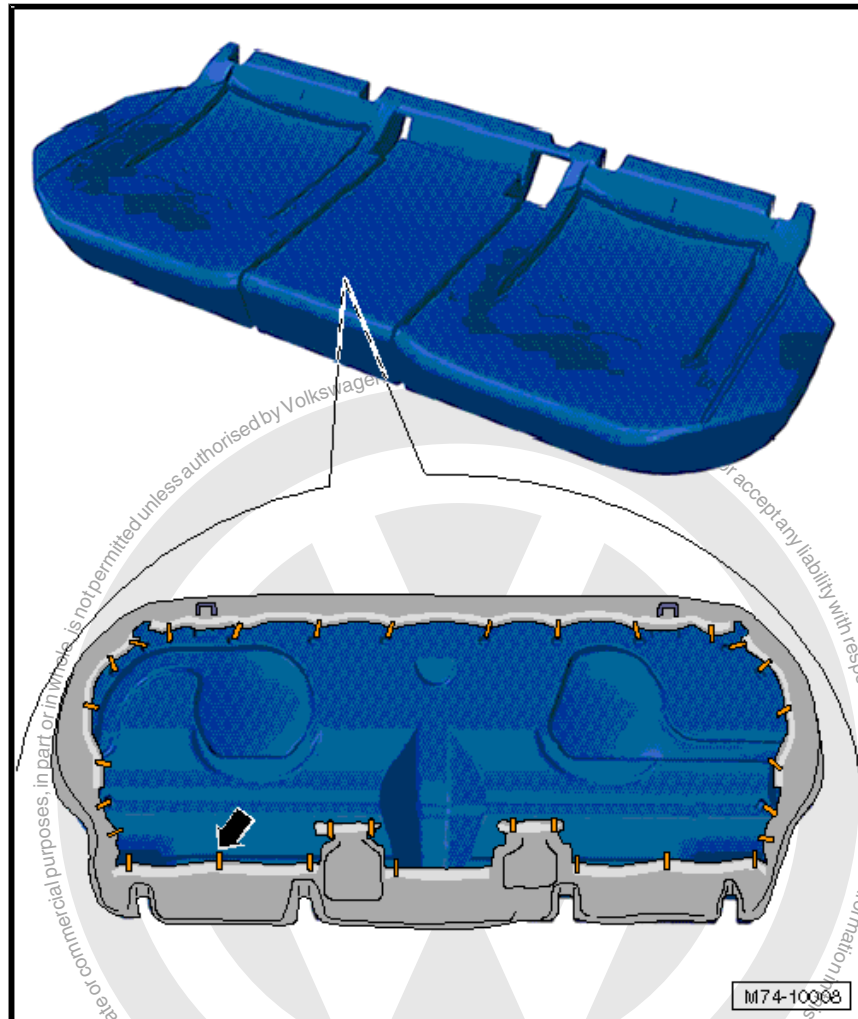


Removing

- Remove bench seat ⇒ [page 270](#) .



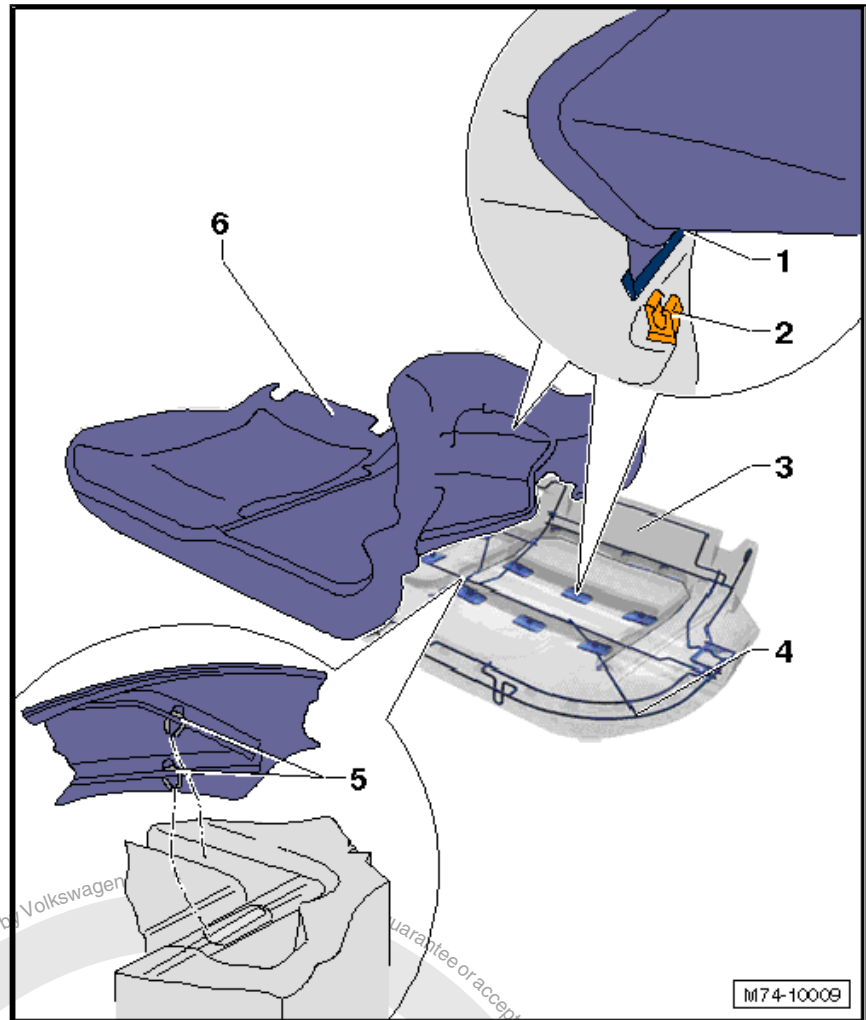
- Detach all padding clips -arrow- on the bottom of the seat bench.
- Roll cover upwards all round.



i Note

The illustration shows how the -6- cover is fastened in place in the »Comfort« equipment version. The seat covers of the »Basic« and »Sport« versions are fastened in the same way.

- Roll up cover further at the sides.
- Detach clamping strips -1- from anchoring clips -2-. To do this, lever open jaws of anchoring clips -2- with the help of a small screwdriver and pull out clamping strips -1-.
- Detach all the padding clips -5-.
- Take cover -6- off padding -3-.
- Remove padding -3- from seat frame -4-.



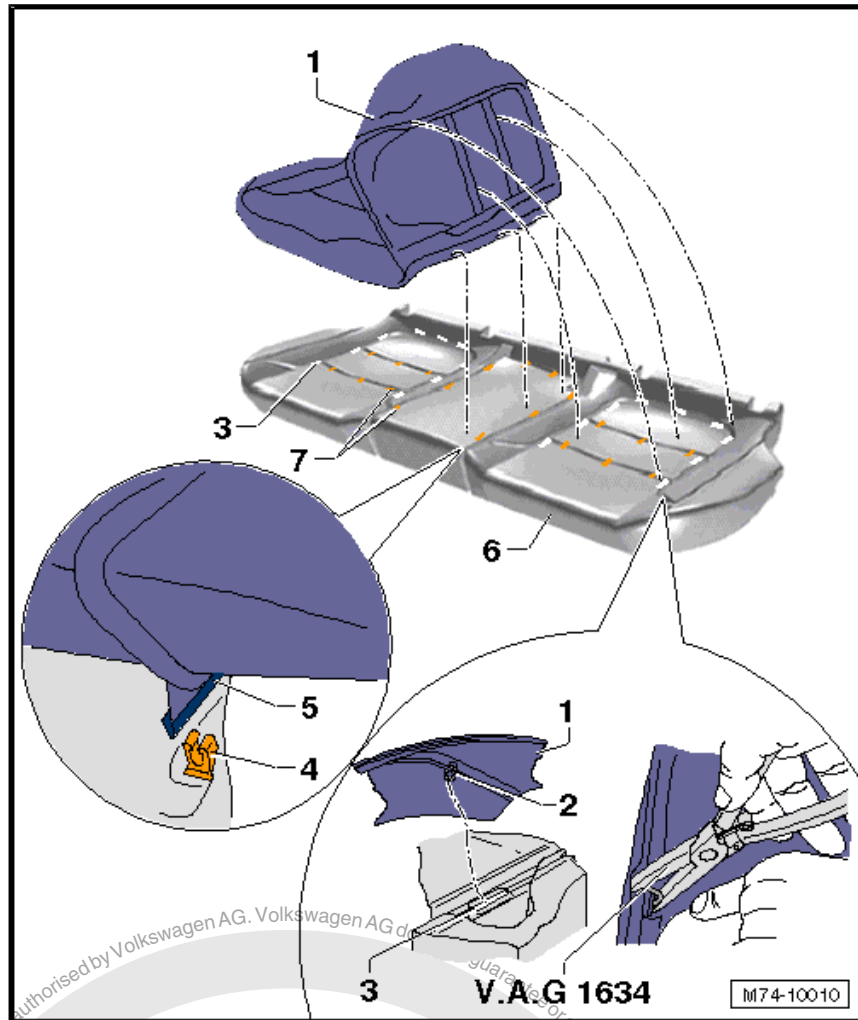
Installing



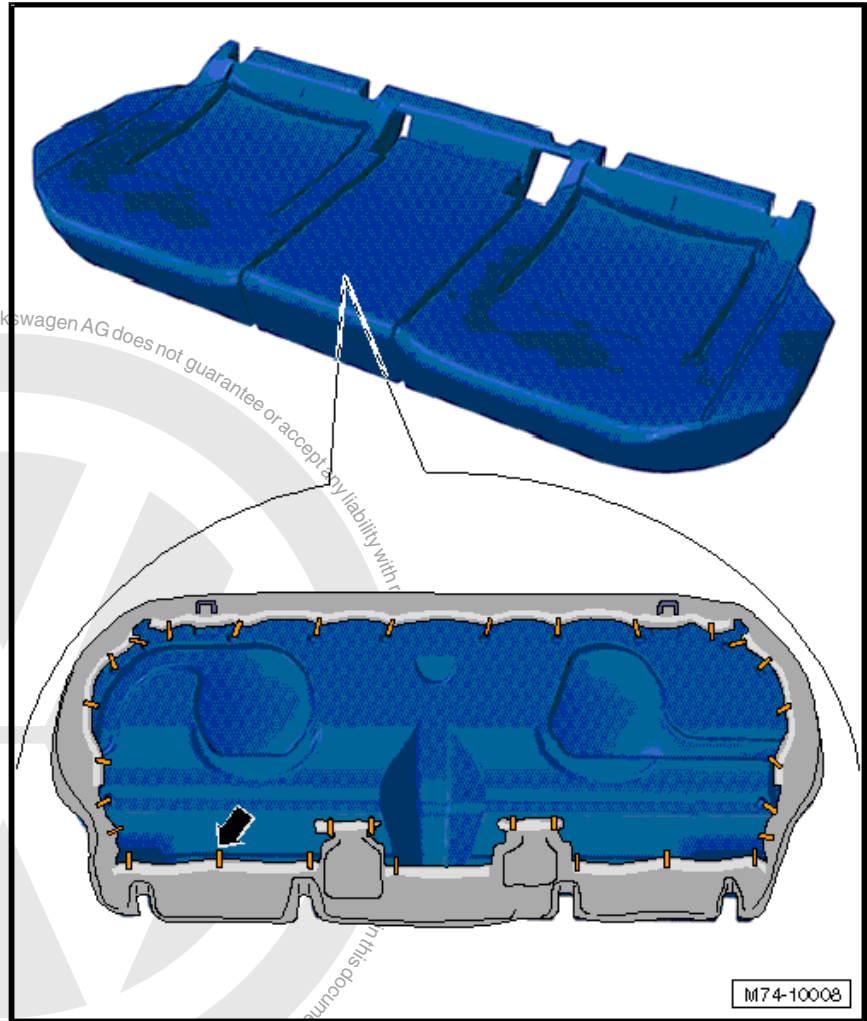
Note

The illustration shows how the -1- cover is fastened in place in the »Comfort« equipment version. The seat covers of the »Basic« and »Sport« versions are fastened in the same way.

- Place padding -6- on seat frame.
- Place cover -1- on padding-6-.
- Insert clamping profiles -2- of cover -1- into anchoring clips -4- at the positions indicated -7-.
- Fasten cover -1- to padding -6- all round it with new padding clips -2- at the positions indicated -3-, using the padding clip pliers -V.A.G 1634- .
- Fold over cover -1- at the sides.



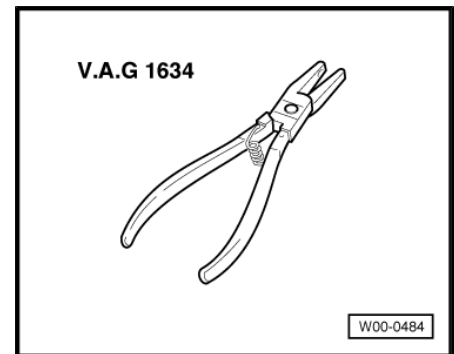
- Fasten cover to seat frame all round with new padding clips -arrows-, using the padding clip pliers -V.A.G 1634- .



2.2 Removing and installing cover and padding for smaller backrest section (1/3)

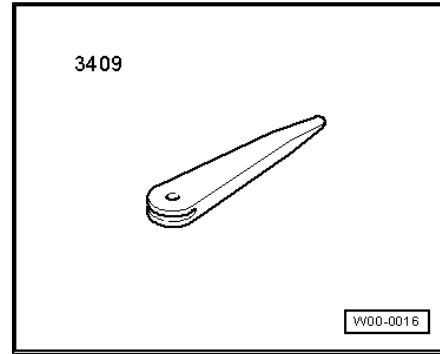
Special tools and workshop equipment required

- ◆ Upholstery clip pliers -V.A.G 1634-

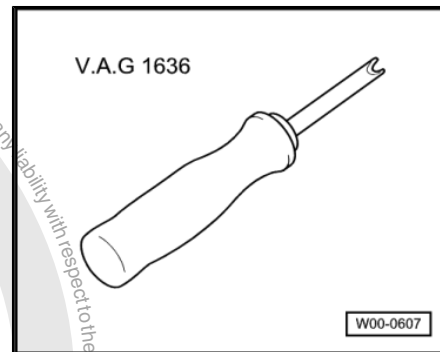




- ◆ Removal wedge -3409-

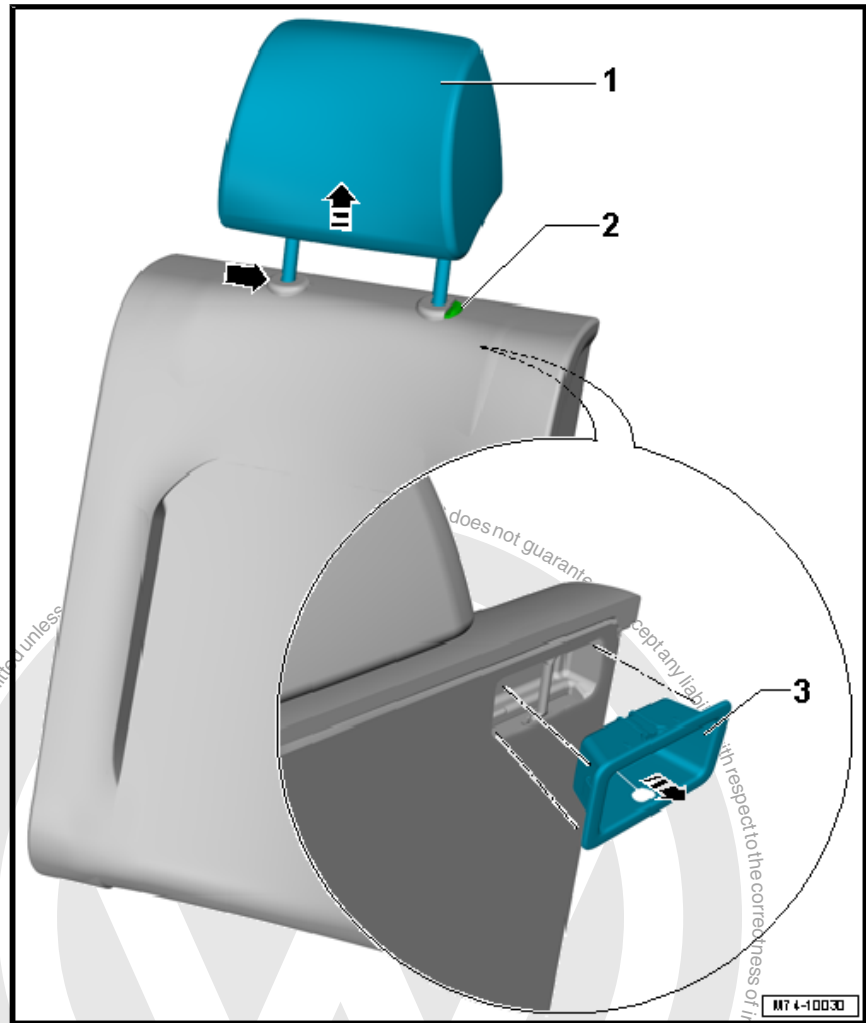


- ◆ Awl -V.A.G 1636-



Removing

- Remove bench seat ⇒ [page 270](#) .
- Remove backrest ⇒ [page 271](#) .
- Press down padding by head restraint guide -arrow-.
- Press lug of head restraint guide -arrow- onto stop using removal wedge -3409- .
- Press button -2- and pull head restraint -1- out of backrest.
- Release striker pin cover -3- using removing wedge -3409- and remove it from backrest in -direction of arrow-.



- On the rear of the backrest, lever the sections -arrows- out of the mountings of the backrest frame -2-, using a screwdriver.
- Fold over cover -7- at the sides.

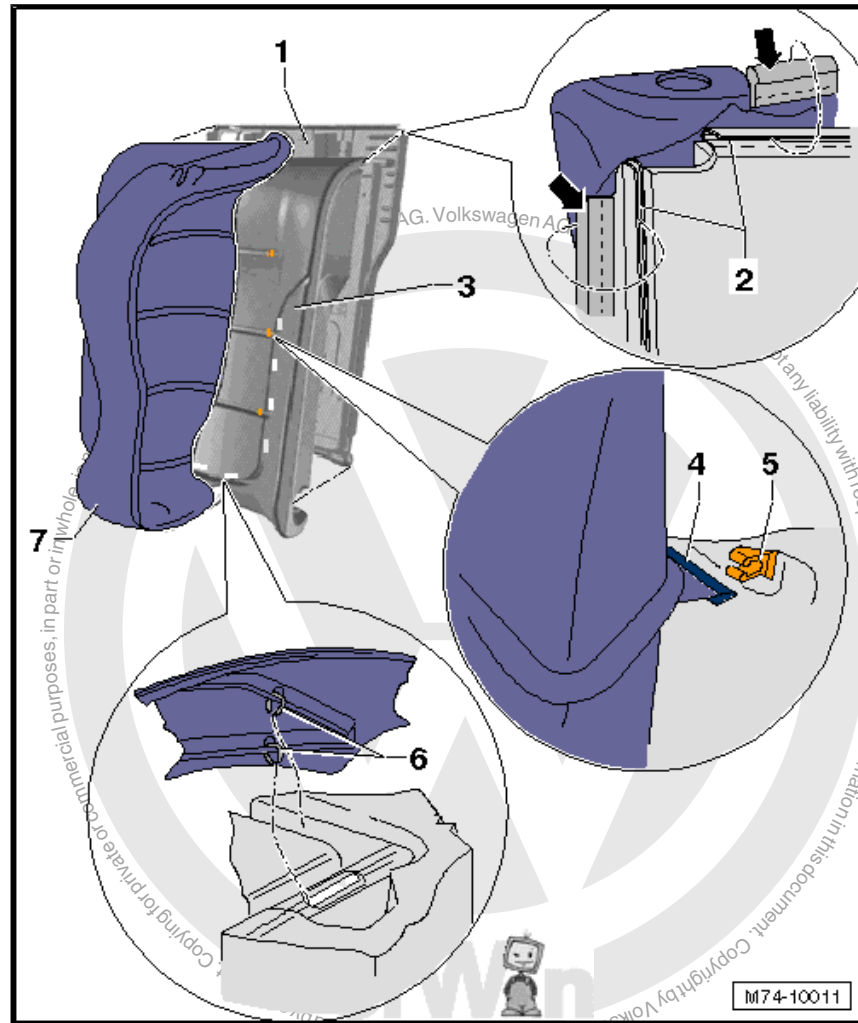
 **Note**

The illustration shows how the -7- cover is fastened in place in the »Comfort« equipment version. The seat covers of the »Basic« and »Sport« versions are fastened in the same way.

- Detach clamping strips -4- from anchoring clips -5-. To do this, lever open jaws of anchoring clips -5- with the help of a small screwdriver and pull out clamping strips -4-.
- Detach all the padding clips -6-.
- Take cover -7- off padding -3-.
- Remove padding -3- from backrest frame -1-.

 **Note**

When doing this, carefully pull cover -7- and padding -3- over the head restraint guides.

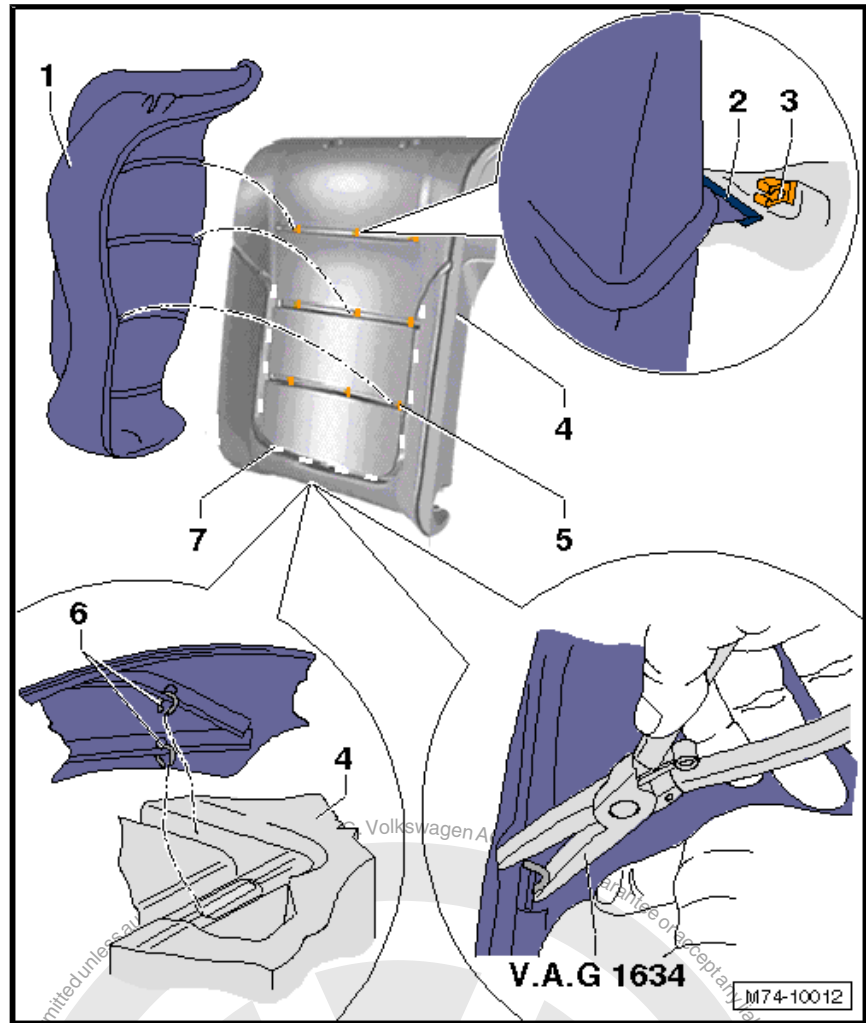


Installing

Note

The illustration shows how the -1- cover is fastened in place in the »Comfort« equipment version. The seat covers of the »Basic« and »Sport« versions are fastened in the same way.

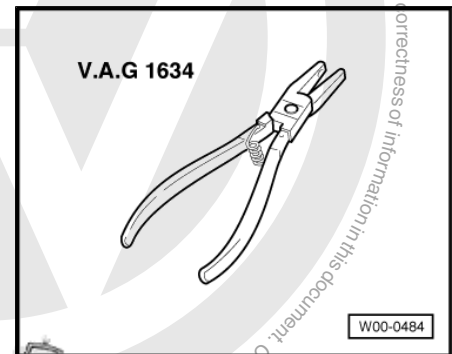
- Place padding on backrest frame.
- Place cover -1- on padding-4-.
- Insert clamping strips -2- of cover -1- into anchoring clips -3- at the positions indicated -5-.
- Fasten cover -1- to padding -4- all round it with new padding clips -6- at the positions indicated -7- using padding clip pliers -V.A.G 1634- .
- Roll cover -1- up at sides and attach clamping strips to backrest frame.
- Further installation is performed in the reverse order of removal.



2.3 Removing and installing cover and padding for wider backrest section (2/3)

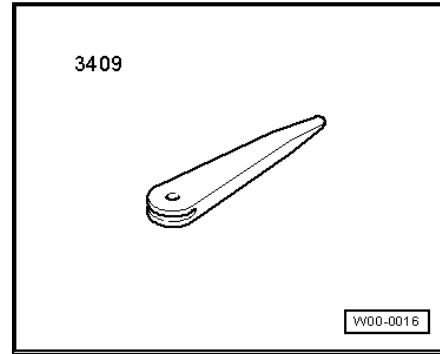
Special tools and workshop equipment required

- ◆ Upholstery clip pliers -V.A.G 1634-

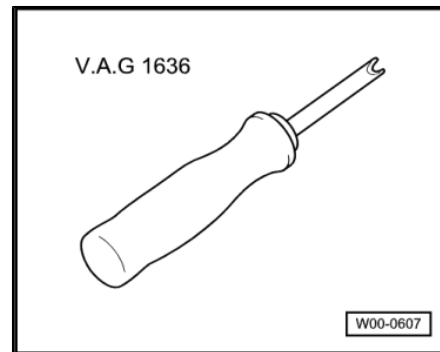




- ◆ Removal wedge -3409-



- ◆ Awl -V.A.G 1636A-



Note

Removal and installation of cover and padding of backrest 23 are described with reference to backrest with through-loading unit. Removal and installation of cover and padding of backrest 23 without through-loading unit are analogous.

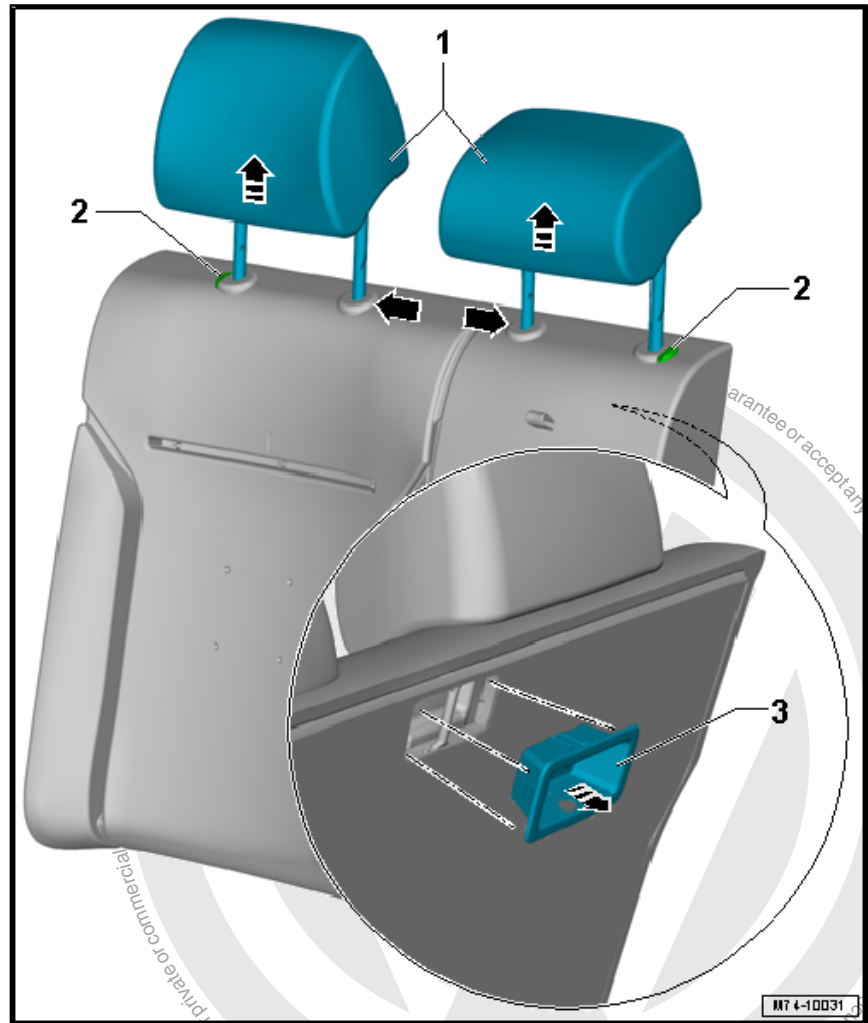
Removing

Vehicles with through-loading unit

- Remove through-loading unit together with centre armrest
⇒ [page 305](#) .

All vehicles

- Remove bench seat ⇒ [page 270](#) .
- Remove backrest ⇒ [page 271](#) .
- Press down padding by head restraint guide -arrow-.
- Press lug of head restraint guide -arrow- onto stop using removal wedge -3409- .
- Press button -2- and pull head restraint -1- out of backrest.
- Release striker pin cover -3- using removing wedge -3409- and remove it from backrest in -direction of arrow-.



- On the rear of the backrest, lever the sections -arrows- out of the mountings of the backrest frame -2-, using a screwdriver.
- Fold over cover -7- at the sides.

i Note

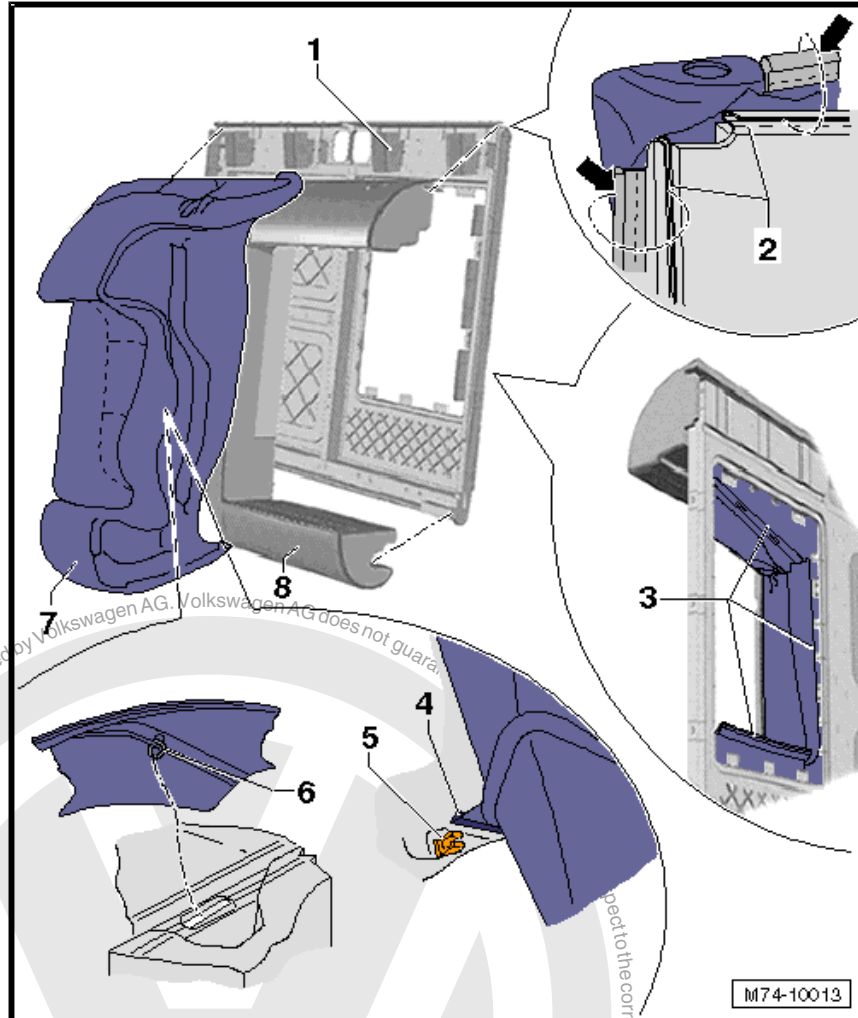
The illustration shows how the -7- cover is fastened in place in the »Comfort« equipment version. The seat covers of the »Basic« and »Sport« versions are fastened in the same way.

- Detach clamping strips -3- from backrest frame in area of through-loading unit.
- Detach clamping strips -4- from anchoring clips -5-. To do this, lever open jaws of anchoring clips -5- with the help of a small screwdriver and pull out clamping strips -4-.
- Detach all the padding clips -6-.
- Take cover -7- off padding -8-.
- Remove padding -8- from backrest frame -1-.



i Note

When doing this, carefully pull cover -7- and padding -8- over the head restraint guides.



Installing

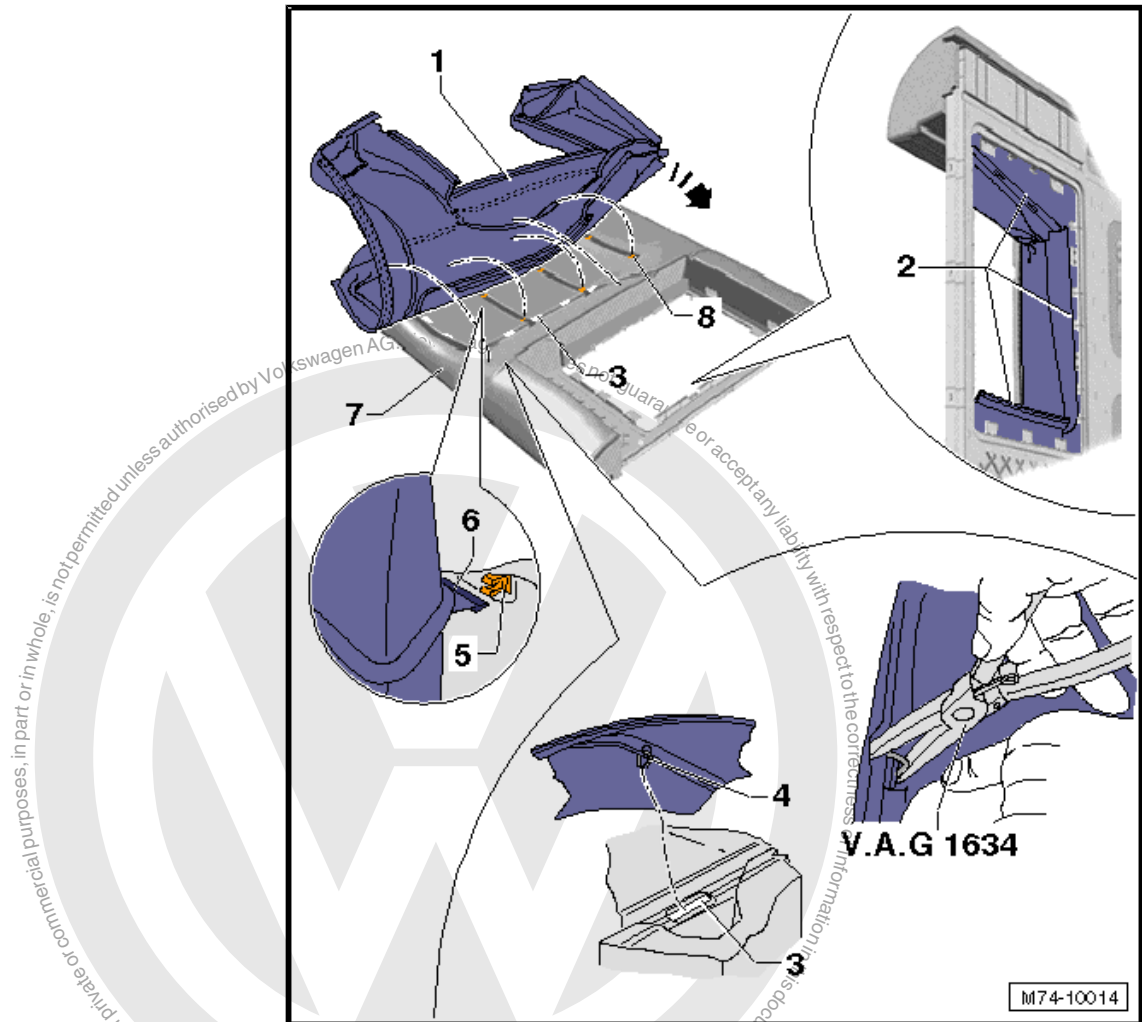
i Note

The illustration shows how the -1- cover is fastened in place in the »Comfort« equipment version. The seat covers of the »Basic« and »Sport« versions are fastened in the same way.

- Place padding -7- on backrest frame.
- Place cover -1- on padding-7-.
- Insert clamping profiles -6- of cover -1- into anchoring clips -5- at the positions indicated -8-.
- Fasten cover -1- to padding -7- all round it with new padding clips -4- at the positions indicated -3-, using the padding clip pliers -V.A.G 1634- .
- Attach clamping strips -2- in area of through-loading unit.



- Roll cover -1- up at sides and attach clamping strips to backrest frame.
- Further installation is performed in the reverse order of removal.



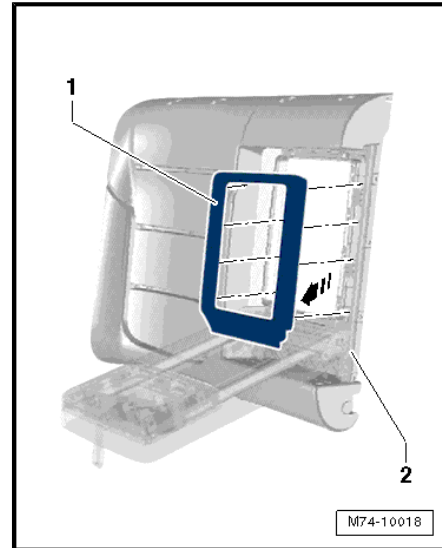
2.4 Removing and installing through-loading unit with centre armrest

Removing

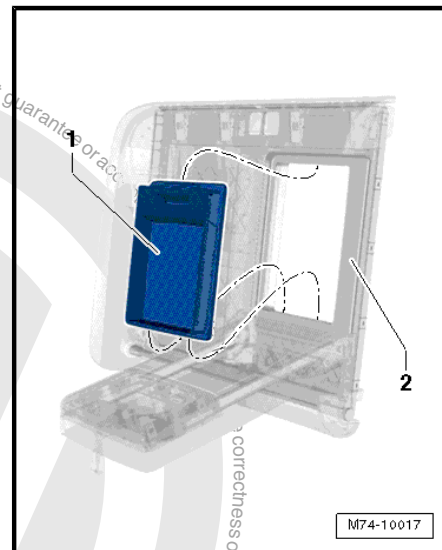
- Remove backrest 23 ⇒ [page 271](#) .



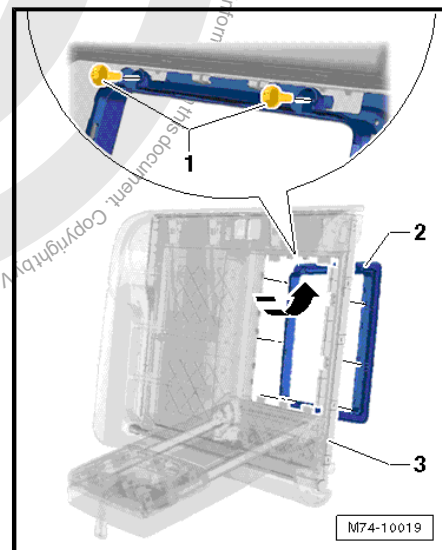
- Fold down centre armrest and detach trim cover -1- from backrest frame -2- in -direction of arrow-.



- Remove through-loading unit -1- from backrest frame -2-.
- Undo bolts -1- (2 Nm) and remove retaining frame -2- from backrest frame -3- in -direction of arrow-.



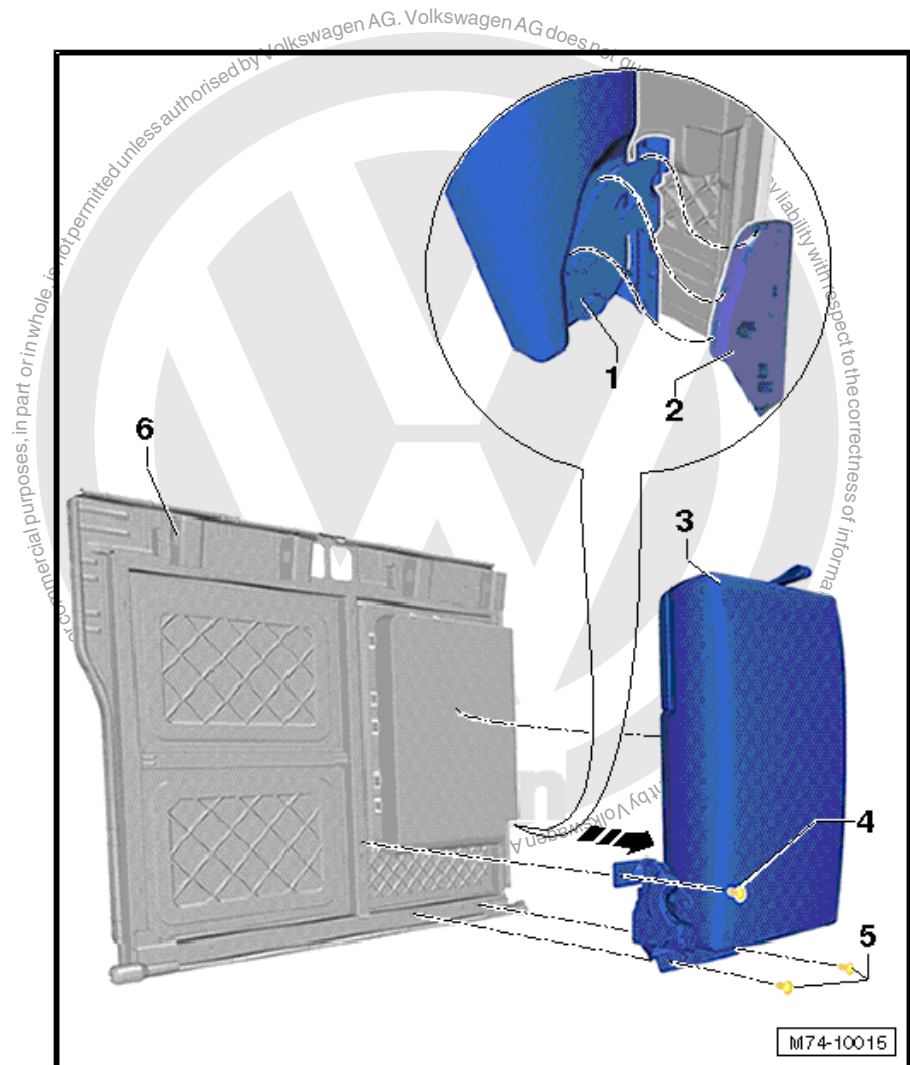
- Remove backrest cover and padding 23 => [page 301](#) .



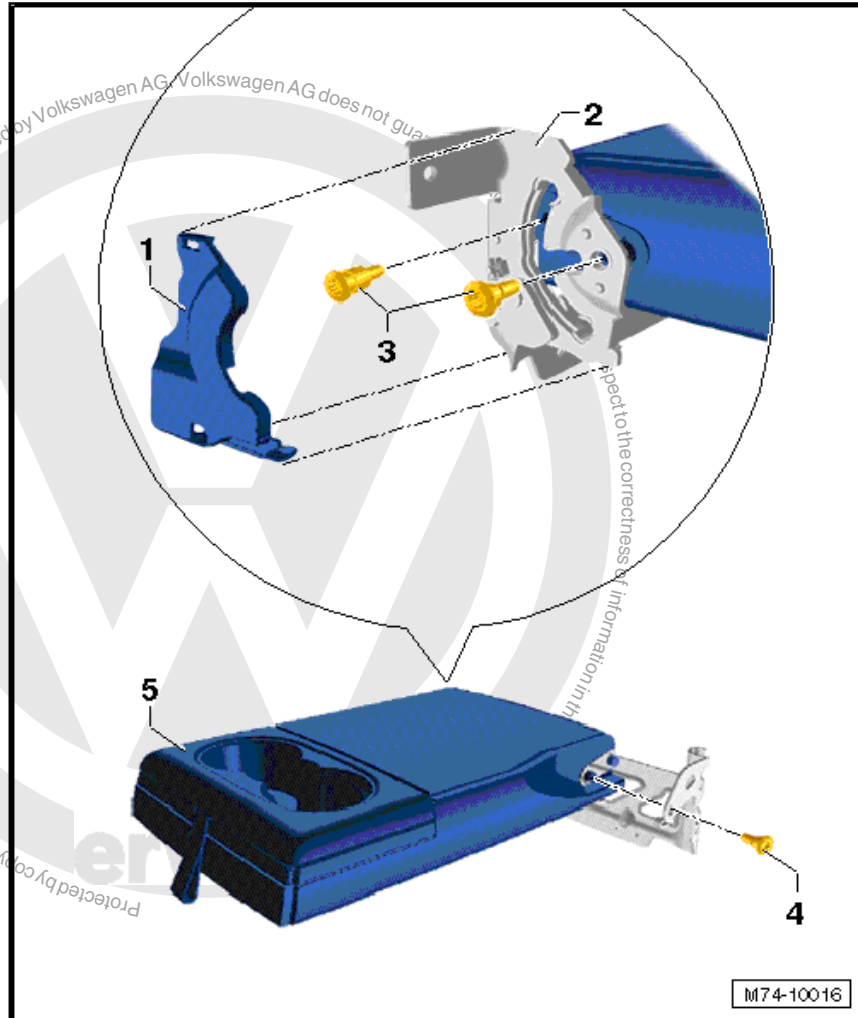
- Remove covering cap -2- from centre armrest support -1-.



- Unscrew bolts -4- and -5- (8 Nm).
- Remove centre armrest -3- from backrest frame -6- in -direction of arrow-.



- Remove covering cap -1- from bracket -2-.
- Unscrew bolts -3- and -4- (12 Nm).
- Remove centre armrest -5- from holding device -2-.



Installing

- Install in reverse order of removal.



Note

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