



Kuwait	United Arab Emirates
Cameroon	West Sahara
Qatar	Central African Republic

### 3.8 Engine code and engine number

Motor code and motor number are located:

- ◆ On vehicle data sticker ⇒ [page 11](#) .
- ◆ On type plate

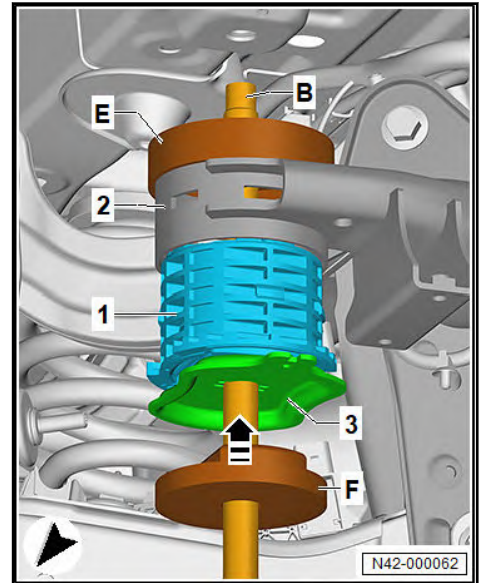
Or

⇒ Rep. gr. 00; Identification; Motor number, motor data

### 3.9 Countries with high levels of dust

- ◆ High dust content in the air due to road and environmental conditions.
- ◆ Dust is categorised according to particle size or type of dust (organic and inorganic material) such as e.g. pollen, bacteria, fungal spores or rock dust, mineral fibres.

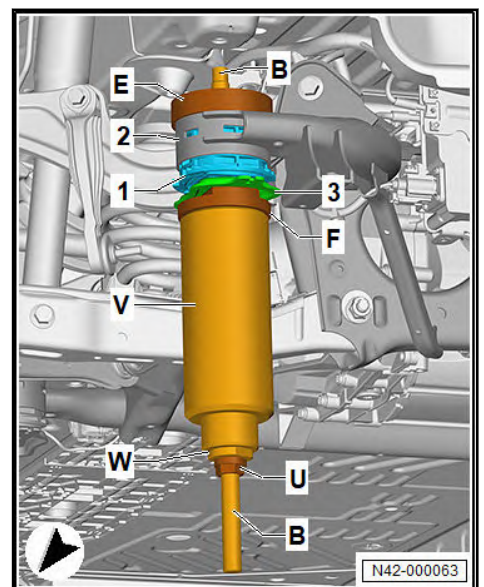
Abu Dhabi	Gabon	Macau	Somalia
Afghanistan	Gambia	Madagascar	Sri Lanka
Egypt	Georgia	Malawi	Seychelles
Algeria	Ghana	Maldives	South Sudan
Angola	Guatemala	Mali	Sudan
Equatorial Guinea	Guinea	Morocco	Suriname
Argentina	Guinea-Bissau	Mauritania	Swaziland
Armenia	Guyana	Mauritius	Syria
Azerbaijan	Honduras	Mexico	Tajikistan
Ethiopia	Hong Kong	Mongolia	Tanzania
Australia	India	Mozambique	Thailand
Bahrain	Indonesia	Myanmar (Burma)	Togo
Bangladesh	Iraq	Namibia	Chad
Belize	Israel	Nepal (Indian subcontinent)	Tunisia
Benin (Dahomey)	Yemen	Nicaragua	Turkey
Bhutan	Jordan	Niger	Turkmenistan
Bolivia	Cambodia	Nigeria	Uganda
Botswana	Cameroon	North Korea	Uruguay
Brazil	Cape Verde	Oman	Ukraine
Brunei	Kazakhstan	Pakistan	Uzbekistan
Burkina Faso (Upper Volta)	Qatar	Palestine	Venezuela
Chile	Kenya	Panama	United Arab Emirates
China	Kyrgyz Republic	Papua New Guinea	Vietnam
Costa Rica	Columbia	Paraguay	West Sahara
Democratic Republic of the Congo	Cuba	Peru	Central African Republic
Djibouti	Kuwait	Puerto Rico	Bermudas
Dominican Republic	Laos	Rwanda	Cayman Islands



- Push thrust piece -T10620/10--F- onto spindle - T10620/11--B-.
- Fit thrust piece -T10620/10- -F- to cover -3-.

Important

- Long side of cover -3- must run parallel with direction of travel.
- Push hydraulic cylinder -VAS 6178--V- onto spindle - T10620/11--B-.



- Screw nut -T10205/8-2--U- onto spindle -T10620/11--B-, and tighten it by hand.
- Preload tools and mounting -1- via nut -T10205/8-2--U-.
- Align tools again, and tighten nut -T10205/8-2--U-.
- Guide of nut -T10205/8-2--U- must be seated in thrust piece -T10205/13--W-.
- Actuate foot pump -VAS 6179-. Press in mounting -1- with hydraulic cylinder -VAS 6178--V- until collar makes contact with subframe -2- "without gaps".



**1 - Anti-roll bar**

- with bearings
- ⇒ Rep. gr. 42; Removing and installing anti-roll bar

**2 - Bearing**

**3 - Coupling rod**

- ⇒ Rep. gr. 42; Removing and installing coupling rod

**4 - Subframe**

- ⇒ Rep. gr. 42; Assembly overview – subframe
- ⇒ Rep. gr. 42; Fixing subframe in position
- ⇒ Rep. gr. 42; Taking up weight of subframe using scissor-type assembly platform
- ⇒ Rep. gr. 42; Removing and installing rear axle

**5 - Upper rear suspension link**

- ⇒ Rep. gr. 42; Assembly overview – suspension link
- ⇒ Rep. gr. 42; Removing and installing upper rear suspension link

**6 - Bolt**

- qty. 2
- Renew after removing
- M 10 × 75
- 50 Nm +180°

**7 - Nut**

- qty. 2
- Renew after removing

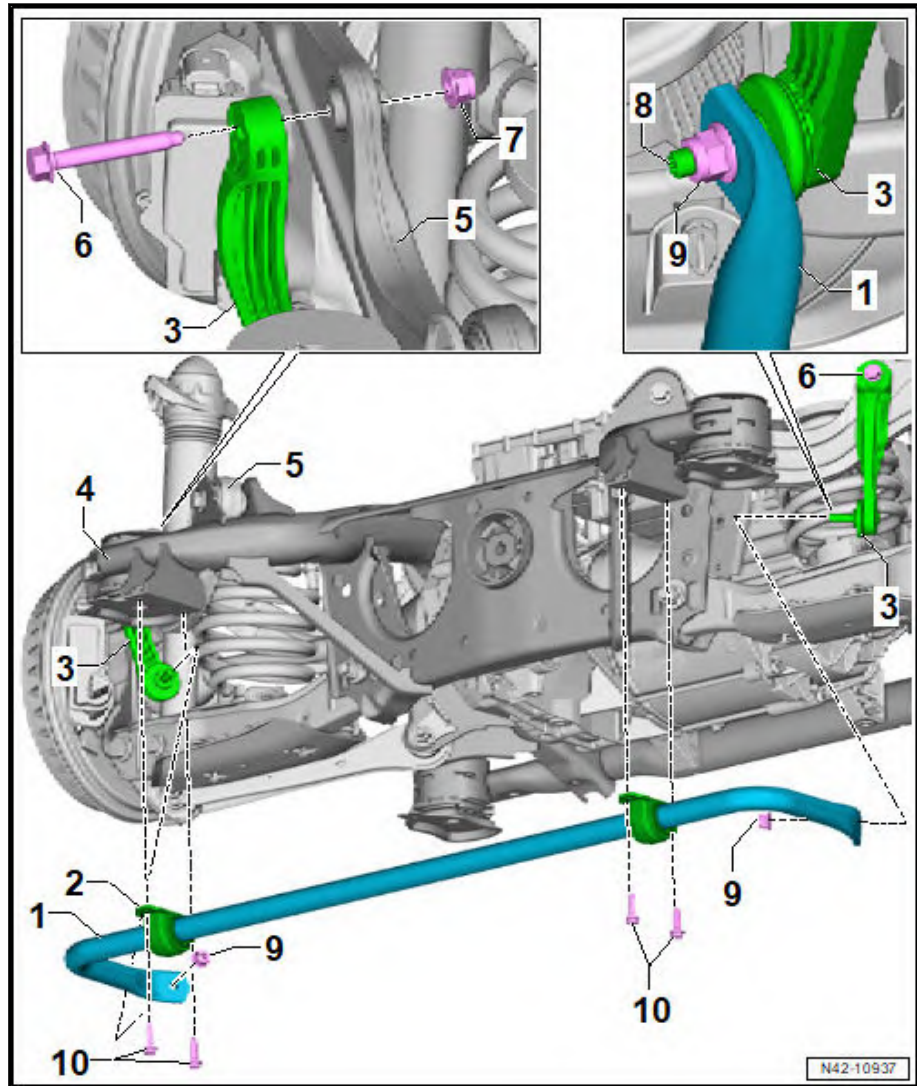
**8 - Inner drive**

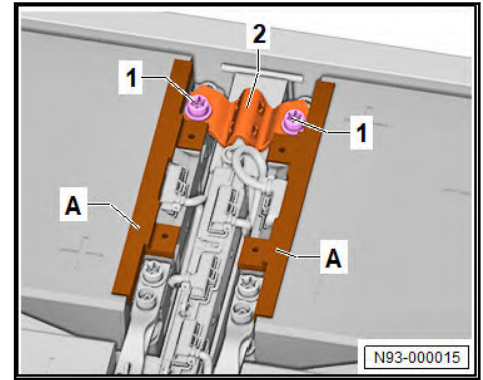
**9 - Nut**

- qty. 2
- M 10
- 55 Nm

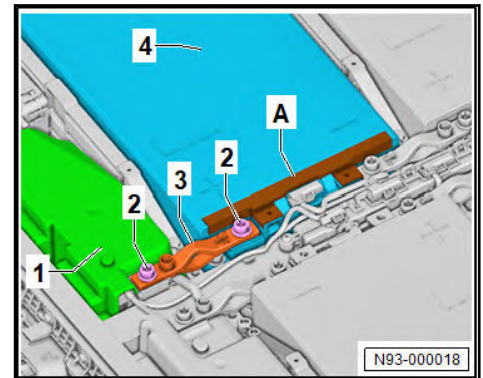
**10 - Bolt**

- qty. 4
- Renew after removing
- M8 × 30
- 20 Nm +90°





- Tighten bolts -1- from high-voltage connector -2- to specified torque straightaway.
- Have an additional mechanic observe torque settings.
- Remove accidental contact protection insert -T10628- -A-.
- Fit accidental contact protection insert -T10628- -A- onto battery module 12 -J1002- -4-.



**Note**

If the measurement is taken before the last battery connector has been installed, a voltage can be measured with the switching unit for high-voltage battery, positive terminal -SX8- installed. If this is the case, a load can be applied by pressing both buttons on the voltage tester -VAS 6762/45-. If the voltage tester -VAS 6762/45- no longer indicates voltage when the load is applied, the work sequence can be continued.

- Prior to installing high-voltage connector -4-, carry out voltage measurement using voltage tester -VAS 6762/45-.

**⚠ DANGER**

**Wrong installation of battery modules and module connectors. Risk of severe injury or death due to short-circuit with electric arc.**

- Check battery modules and module connectors for proper installation.
- Proceed with the work only if there is no voltage between the battery terminals.

**Important**

- When the load is applied, no voltage is displayed.
- Immediately tighten bolts -2- on high-voltage connector -3- between switching unit for high-voltage battery, positive ter-



## 16.4 Removing and installing voltage converter, all-wheel drive

### 16.4.1 Removing and installing voltage converter

The voltage converter -A19- will henceforth be referred to as "voltage converter".

The charging unit 1 for high-voltage battery -AX4- will henceforth be referred to as "charging unit".

#### Removing

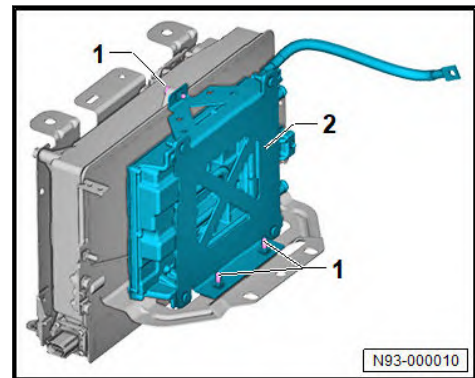
#### DANGER

High voltage can cause fatal injury.

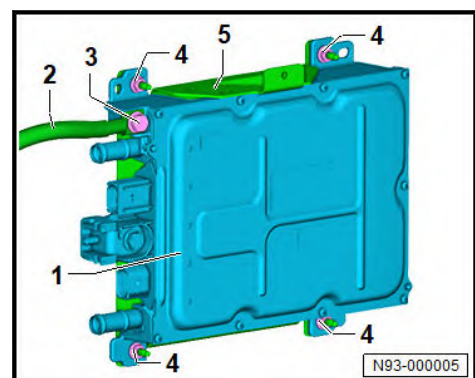
Danger of severe or fatal injuries from electric shock or electric arcs.

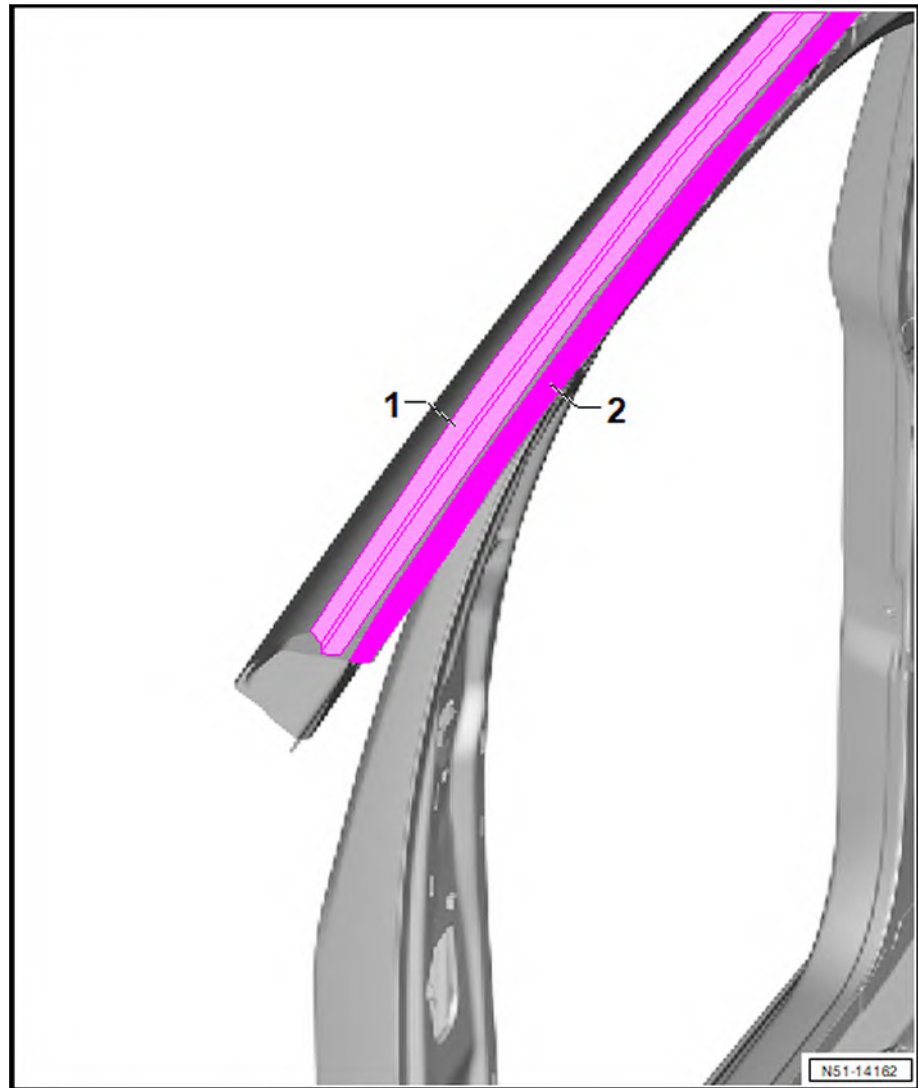
- Have a high-voltage technician (HVT) or a high-voltage expert (HVE) de-energise the high-voltage system.

- ⇒ Rep. gr. 93; De-energising high-voltage system.
- Disconnect battery ⇒ Electrical system; Rep. gr. 27; Battery; Disconnecting and connecting battery.
- Remove charging unit ⇒ Rep. gr. 93; Removing and installing charging unit 1 for high-voltage battery [AX4], rear-wheel drive.
- Unscrew bolts -1-.

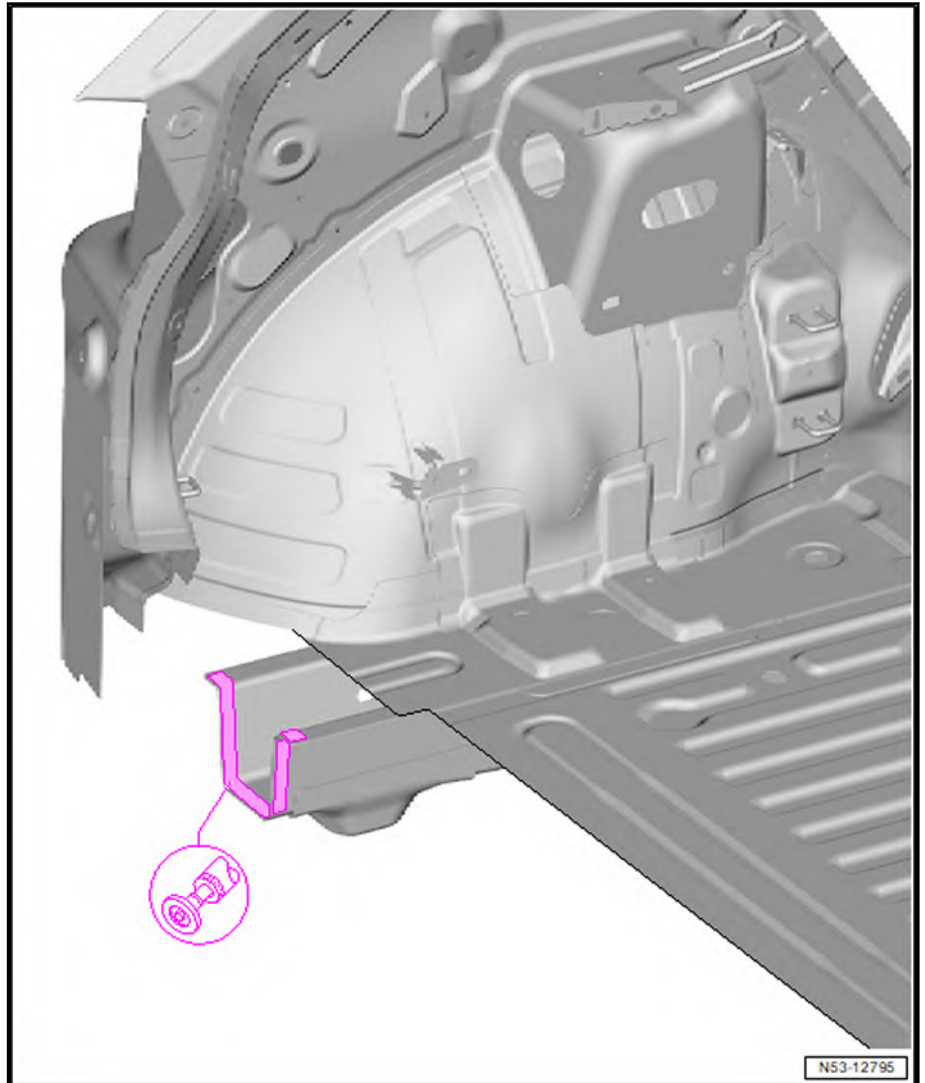


- Detach voltage converter with bracket -2- from charging unit.
- Unscrew bolt -3-.





- Sand bonding surface for 2-component body adhesive -1- back to bare metal.
- Apply corrosion protection measures to sand-through spots on bonding surface for 1-component assembly adhesive -2- → General information, paintwork – passenger cars; Rep. gr. 00; General information; Pre-treatment of bonding surfaces when renewing laser-welded roofs .
- Clean bonding surfaces with cleaning solution.
- Apply glass/paint primer to bonding surface for 1-pack assembly adhesive -2-.



- Remove remaining material.
- Sand welding surfaces down to bare metal.

## 9.3 Installing

⇒ [n9.3.1 ew part", page 297](#)

⇒ [i9.3.2 n", page 298](#)

### 9.3.1 Preparing new part

#### Replacement part

- ◆ Longitudinal member (replacement part designation according to ⇒ Electronic parts catalogue (ETKA) ⇒ rear longitudinal member)
- ◆ Support ⇒ Electronic parts catalogue (ETKA)
- ◆ Rear longitudinal member cover plate (replacement part designation according to ⇒ Electronic parts catalogue (ETKA) ⇒ cover plate for rear longitudinal member)
- ◆ 2-component body adhesive ⇒ Electronic parts catalogue (ETKA)



## 5 Side windows

### 5.1 Assembly overview – rear side windows

The overview is shown for the left side of vehicle as an example.

#### 1 - Rear side window

- ⇒ Rep. gr. 64; Removing and installing rear side window

#### 2 - Seal

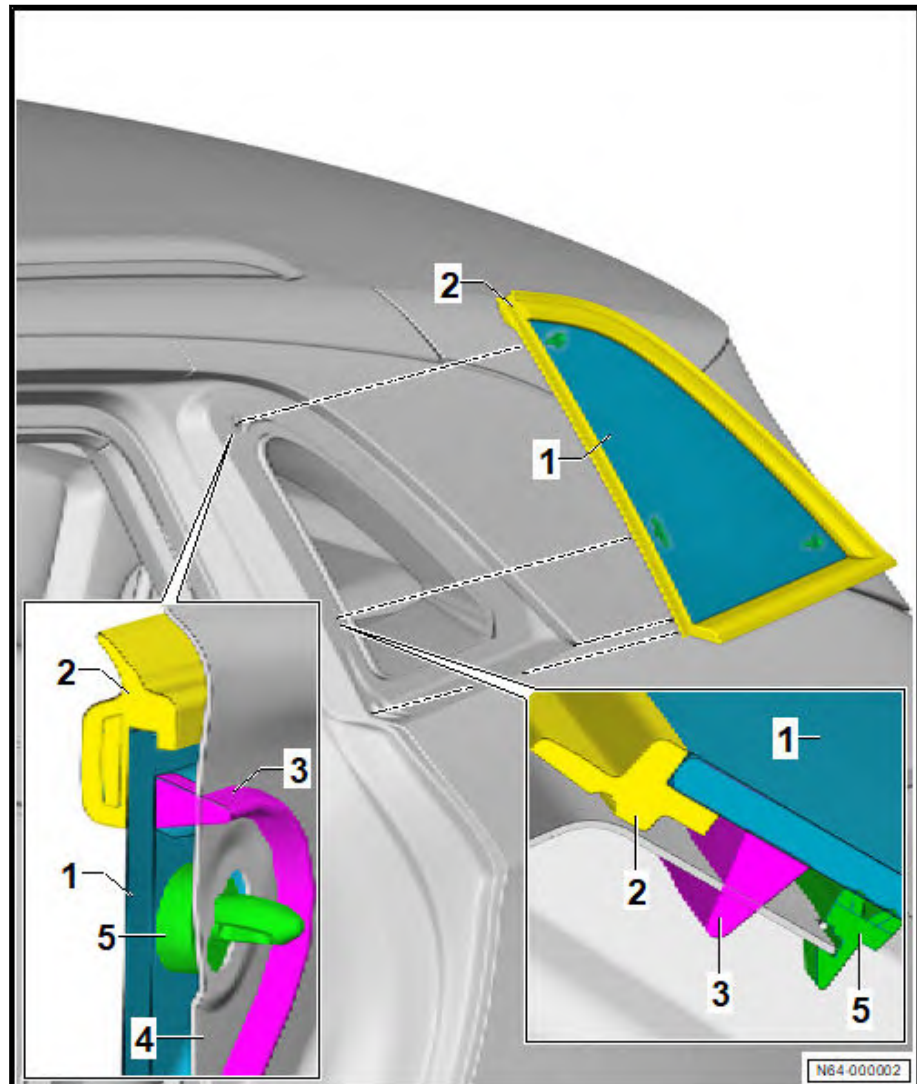
- Can be renewed only together with rear side window

#### 3 - PUR adhesive sealant

#### 4 - Body flange

#### 5 - Clip

- qty. 3



### 5.2 Removing and installing rear side window

#### 5.2.1 Removing and installing rear side window

##### Special tools and workshop equipment required

- ◆ awl -V.A.G 1474/2-
- ◆ cutting cord -VAS 861 001/1A-
- ◆ pull handle -V.A.G 1351/1-





## 3.5 Removing and installing sun visor

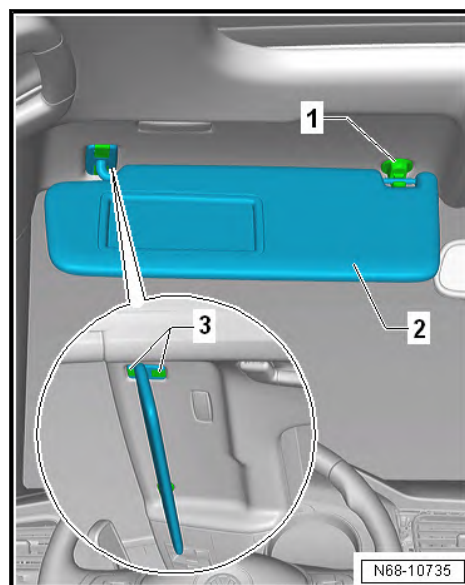
### Special tools and workshop equipment required

- ◆ pliers -T10558A-

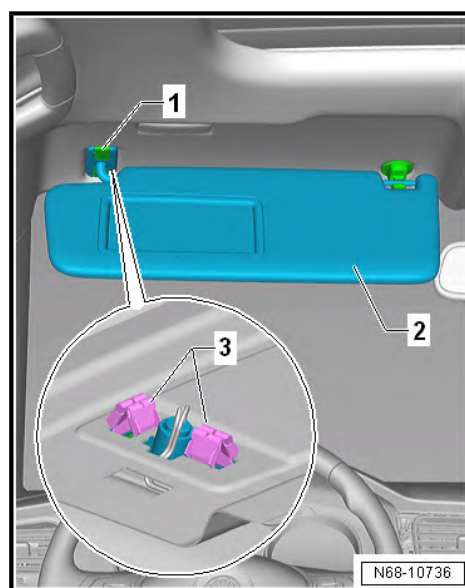
### Removing

Removal and installation are described for the left side of vehicle as an example.

- Swing sun visor towards front.
- Remove illuminated vanity mirror [W20]/[W14].⇒ Electrical system; Rep. gr. 96; Lights; Removing and installing illuminated vanity mirror [W20]/[W14].
- Detach sun visor -2- from sun visor centre mount -1-, and fold it aside.



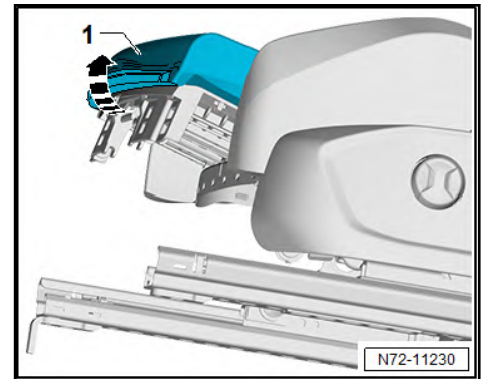
- Lever off caps -3- using a small screwdriver.
- Position pliers -T10558A- centrally in retaining clips -3-.



- Detach foremost (when seen in direction of travel) retaining clip -3- in sun visor bracket -1- using pliers -T10558A-.



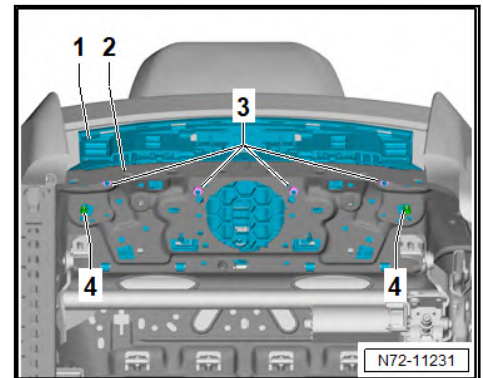
- Unclip seat depth adjuster handle.
- Detach cover -1- from front profile in direction of -arrow-.



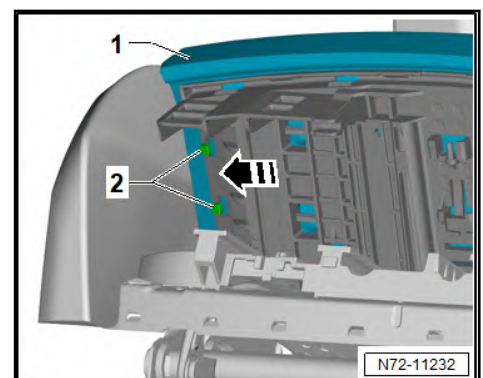
**Note**

The seat control unit can be removed to improve access to the nuts.

- Unscrew nuts -3-.



- Release fasteners -4-.
- Fold seat depth adjuster -1- upwards.



- Disconnect electrical wire.
- Release cover from side fasteners -2- in direction of -arrow-.
- Detach fasteners -arrows- using commercially available plastic wedge.



- ◆ ⇒ Rep. gr. 87; Assembly overview – air intake unit of heater and air conditioning unit
- ◆ ⇒ General body repairs, exterior; Rep. gr. 66; Underbody cladding; Assembly overview – underbody cladding

### 4.3 Removing and installing refrigerant expansion valve 1 [N636]

#### Special tools and workshop equipment required

- ◆ ESD workplace -VAS 6613-

#### Removing

Refrigerant expansion valve 1 -N636- and refrigerant shut-off valve 1 -N696- cannot be renewed individually.

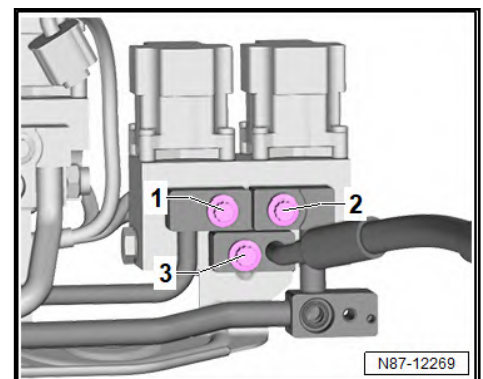
- Remove heat pump valve unit ⇒ Rep. gr. 87; Removing and installing heat pump valve unit.

#### NOTICE

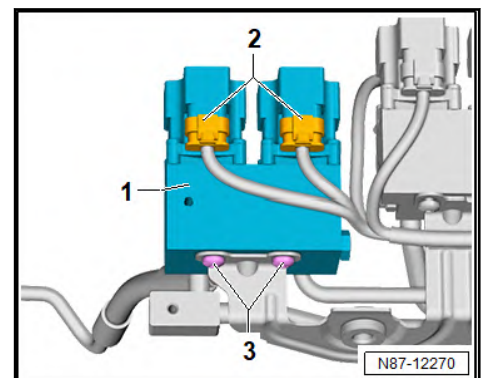
**Risk of damage to electrical components.**

**Electrostatic charge may damage electrical components.**

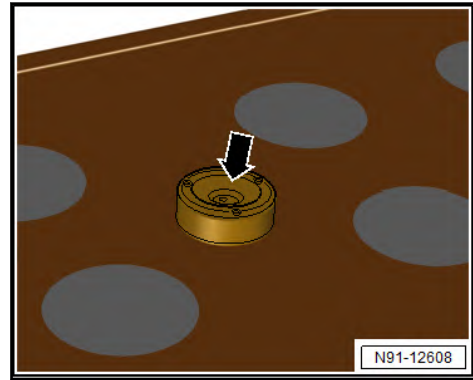
- Work on electrical components must always be carried out at an ESD workplace.
- Place heat pump valve unit onto ESD workplace -VAS 6613-.
- Unscrew bolts -1-, -2- and -3-.



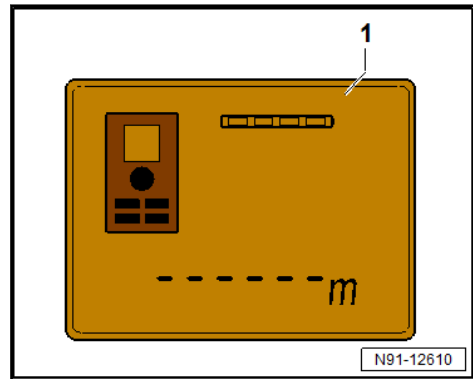
- Mark (to avoid interchanging) and disconnect electrical connectors -2-.



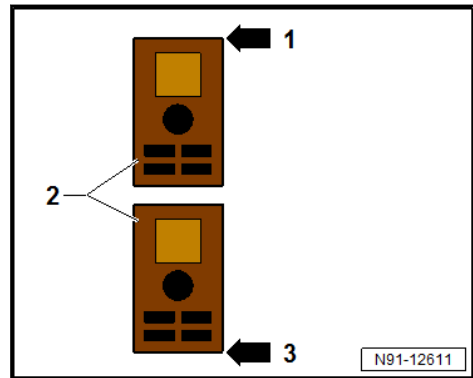
- Unscrew bolts -3-.
- Remove refrigerant expansion valve 1 -N636- and refrigerant shut-off valve 1 -N696--1-.



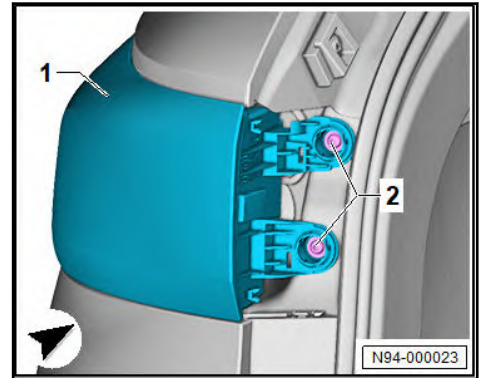
- Switch on spacing laser -VAS 6350/2A-, and hold it as shown on display -1-.



- Press corresponding button on spacing laser -VAS 6350/2A--2-:



- ◆ -Arrow 1-: Fit with front edge
- ◆ -Arrow 3-: Fit with rear edge
- Fit spacing laser -VAS 6350/2A--2- with rear edge -arrow 3-, and press corresponding button.
- Position spacing laser -VAS 6350/2A--2- flush in bracket on calibration field, and hold it in place.



- Remove tail light cluster -1- enough to allow access to electrical connector.
- Disconnect electrical connector.
- Remove tail light cluster -1-.

### Installing

Install in reverse order of removal, observing the following:

### Tightening torques

- ◆ ⇒ Rep. gr. 94; Assembly overview – tail lights in body

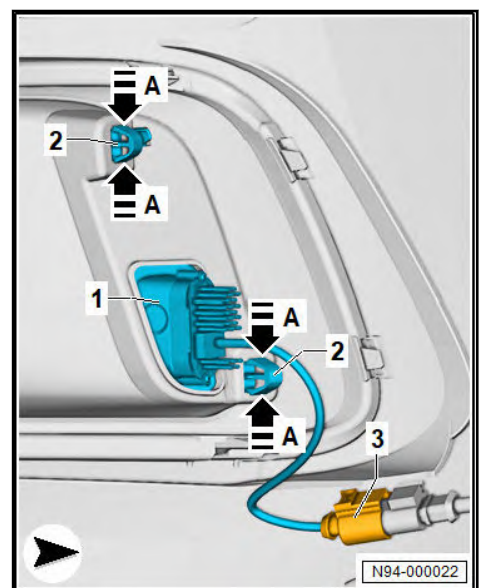
## 4.5 Removing and installing rear fog light [X3]

The rear fog light -X3- will henceforth be referred to as “rear fog light”.

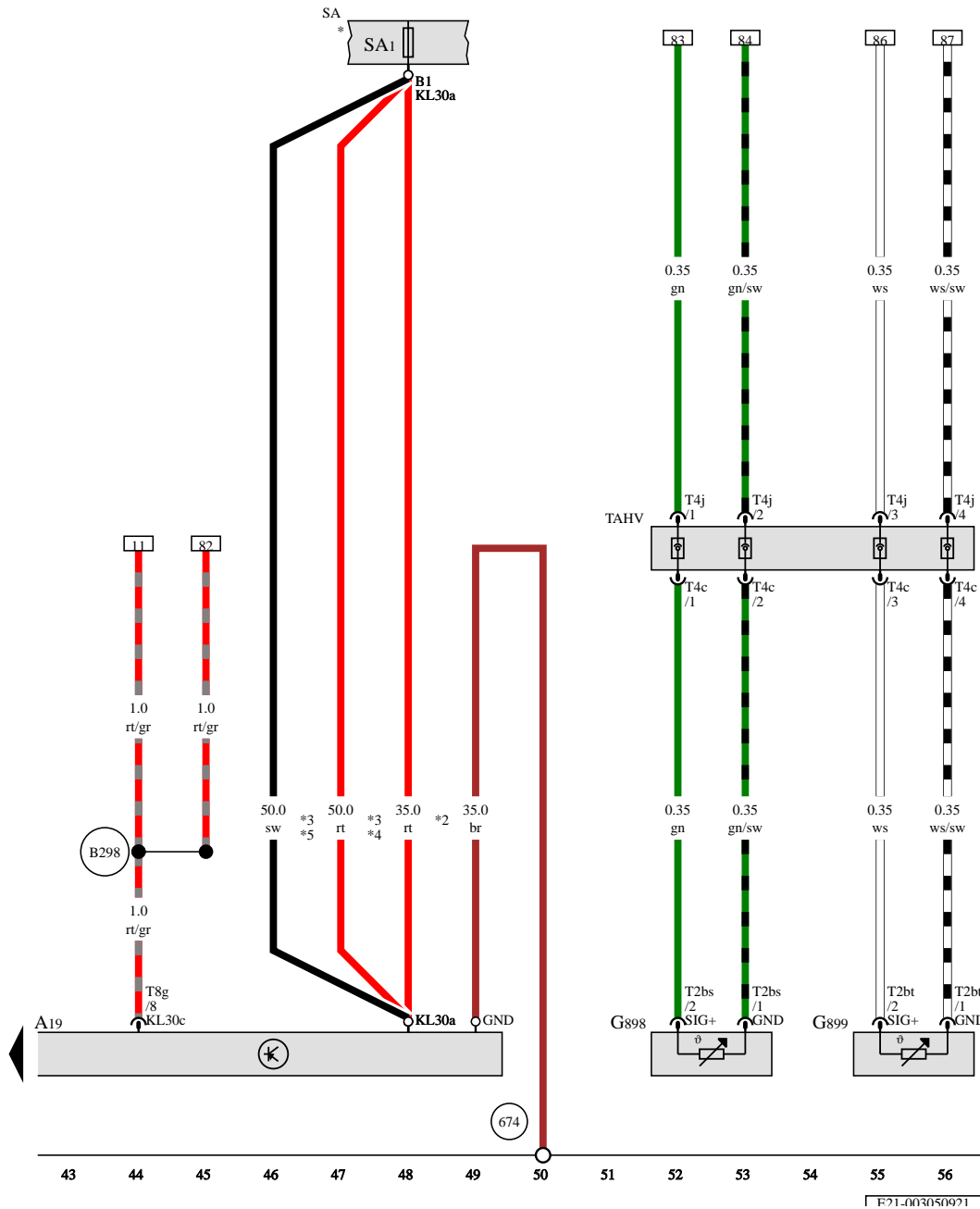
Removal and installation are described for the left vehicle side as an example.

### Removing

- Remove bumper cover ⇒ General body repairs, exterior; Rep. gr. 63; Rear bumper; Removing and installing bumper cover.
- Disconnect electrical connector -3-.



- Release retaining clips -2- in direction of -arrow A-.
- Remove rear fog light -1-.



Voltage converter, Coolant temperature sender 1 for high-voltage battery, Coolant temperature sender 2 for high-voltage battery, Fuse holder A

- A19 Voltage converter
- G898 Coolant temperature sender 1 for high-voltage battery
- G899 Coolant temperature sender 2 for high-voltage battery
- SA Fuse holder A
- SA1 Fuse 1 on fuse holder A
- T2bs 2-pin connector, black
- T2bt 2-pin connector, black
- T4c 4-pin connector, black
- T4j 4-pin connector, black
- T8g 8-pin connector, black
- TAHV Coupling point on high-voltage battery

674 Earth point 4, on front of left longitudinal member

B298 Positive connection 2 (30), in main wiring harness

\* see applicable current flow diagram for fuses in engine compartment

\*2 For models with rear-wheel drive

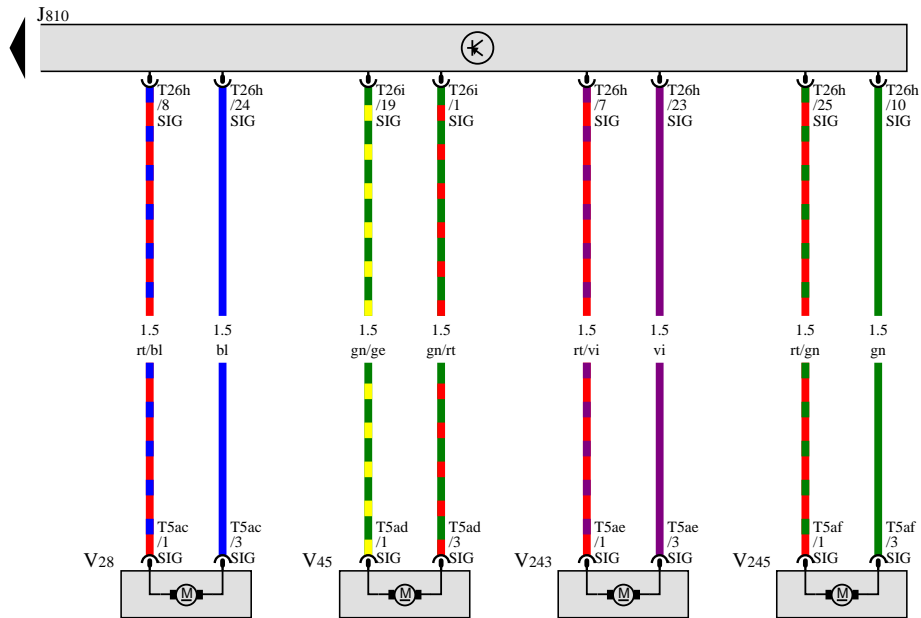
\*3 For models with all-wheel drive

\*4 Up to June 2021

\*5 From June 2021

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink

F71J003050921



Driver seat adjustment control unit, Driver seat longitudinal adjustment motor, Driver seat backrest adjustment motor, Driver seat rake adjustment motor, Driver seat height adjustment motor

- J810 Driver seat adjustment control unit
- T5ac 5-pin connector, brown
- T5ad 5-pin connector, brown
- T5ae 5-pin connector, brown
- T5af 5-pin connector, brown
- T26h 26-pin connector, white
- T26i 26-pin connector, blue
- V28 Driver seat longitudinal adjustment motor
- V45 Driver seat backrest adjustment motor
- V243 Driver seat rake adjustment motor
- V245 Driver seat height adjustment motor

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink