Workshop Manual

Audi A5 2016 ➤
Audi A5 Cabriolet 2017 ➤
Audi A5 Sportback 2017 ➤

Communication

Edition 04.2018

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List of Workshop Manual Repair Groups

Repair Group

00 - Technical data

91 - Radio, telephone, navigation

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

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00 – Technical data

1 Repair notes

(ARL005550; Edition 04.2018)

⇒ “1.1 General repair instructions”, page 1

⇒ “1.2 Notes on repairing CAN bus wiring”, page 1

1.1 General repair instructions

Repairing electrical wiring harnesses and connectors ⇒ Electrical system; Rep. gr. 97 ; Connectors; Repairing electrical wiring harnesses and electrical connectors

Releasing and dismantling connector housings ⇒ Electrical system; Rep. gr. 97 ; Releasing and dismantling connector housings

Repairing aerial wiring ⇒ Electrical system; Rep. gr. 97 ; Repairing aerial wires

Repairing fibre optic cables ⇒ Electrical system; Rep. gr. 97 ; Fibre optic cables

Vehicle diagnostic, testing and information systems ⇒ Electrical system; Rep. gr. 97 ; Vehicle diagnostic, testing and information systems

1.2 Notes on repairing CAN bus wiring

Repairing CAN bus wiring ⇒ Electrical system; Rep. gr. 97 ; Connectors; Repairing electrical wiring harnesses and electrical connectors

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91 – Radio, telephone, navigation

1 Infotainment system

⇒ “1.1 Layout - infotainment system”, page 2

⇒ “1.2 Overview of fitting locations - infotainment system”, page 8

⇒ “1.3 Removing and installing infotainment system display”, page 9

⇒ “1.4 Removing and installing control unit 1 for information electronics J794 ”, page 10

⇒ “1.5 Removing and installing multimedia system operating unit E380 ”, page 12

⇒ “1.6 Removing and installing driver side volume regulator E67 ”, page 13

⇒ “1.7 Removing and installing multimedia system button module E817 ”, page 14

1.1 Layout - infotainment system

⇒ “1.1.1 Layout - infotainment system, MMI radio plus, I8E”, page 2

⇒ “1.1.2 Layout - infotainment system, MMI navigation system I8S”, page 4

⇒ “1.1.3 Layout - infotainment system, MMI navigation system plus, I8H”, page 6

1.1.1 Layout - infotainment system, MMI radio plus, I8E

On the “MMI radio plus” infotainment system, the following functions are integrated in control unit 1 for information electronics - J794- :

- Control unit 1 for information electronics - J794- with integrated CD player/SD memory card readers in glove box
- Multimedia system operating unit - E380- in centre console, UJ0
- Display unit for front information display and operating unit control unit - J685- (7 inch display) in dash panel (centre)
- Connection for external audio sources - R199- in centre console storage compartment, USB charging, AUX IN socket, UE4
- Sound systems: basic sound/Audi sound system, 8RM/9VD
- Radio - R- integrated in control unit 1 for information electronics - J794-
- Video input for reversing camera system, KA2
- Bluetooth hands-free system, 9ZX

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Optional equipment

- Digital radio - R147- integrated in control unit 1 for information electronics - J794- , Europe/rest-of-world and QV3 only
- Satellite radio - R146- integrated in control unit 1 for information electronics - J794- , USA and QV3 only

- Digital sound package control unit - J525- in luggage compartment (rear left), 9VS only
- Control unit in dash panel insert - J285- , colour display in dash panel insert, 9S7
- Sound system: premium Bang & Olufsen sound system, 9VS
- Connection for external audio sources - R199- in centre console storage compartment, 2x USB, AUX IN socket, UE7
- Audi phone box, 9ZE
- Multi-function steering wheel

1 - Display unit for front information display and operating unit control unit - J685- in dash panel (centre)

2 - Multimedia system operating unit - E380- in centre console

3 - CAN bus

4 - Control unit 1 for information electronics - J794- in glove box

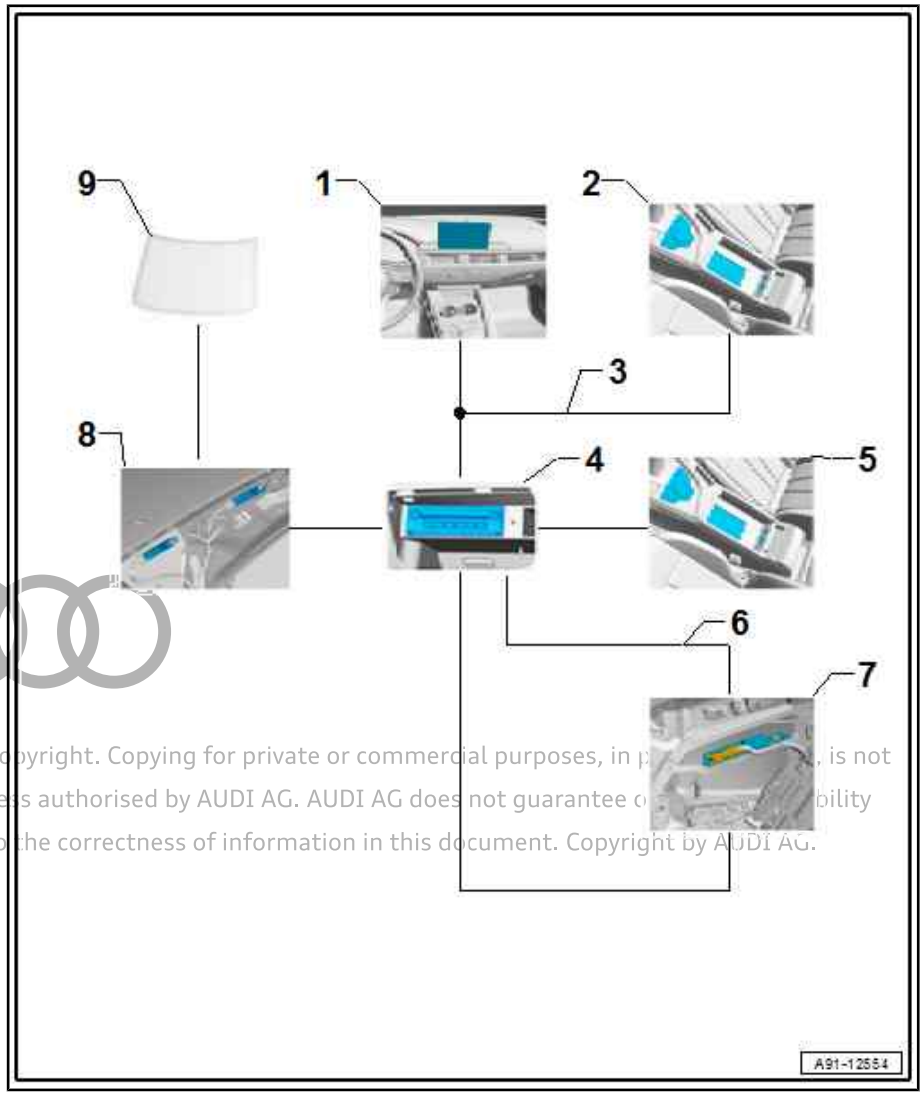
5 - Connection for external audio sources - R199- in centre console storage compartment

6 - MOST bus

7 - Digital sound package control unit - J525- in luggage compartment (rear left)

8 - Aerial amplifier

9 - Rear window aerials



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The exchange of data in the MMI systems takes place via the CAN bus and the MOST bus.

Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

Notes on MOST bus

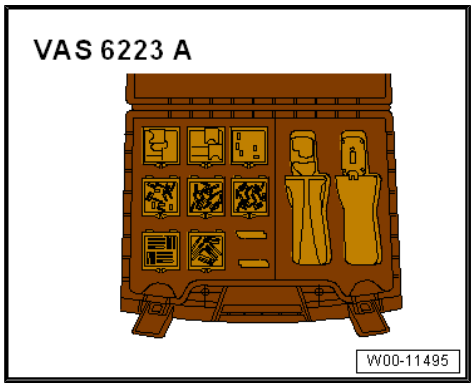
In addition to the CAN bus, the fibre optic data bus “MOST bus” is used.

A fibre optic cable is used. The fibre optic cables are fitted in corrugated tubes for protection.

Renew the complete fibre optic cable whenever possible.

The end faces of the connectors must not become dirty.

If connectors are unplugged: fit a protective cap for cable connector - VAS 6223/9- .



When installing the fibre optic cables, be sure to observe the minimum bending radius of 25 mm. Do not crush or kink the fibre optic cable.

Repairing fibre optic cables ⇒ page 1 .

1.1.2 Layout - infotainment system, MMI navigation system I8S

On the “MMI navigation system” infotainment system, the following functions are integrated in control unit 1 for information electronics - J794- :

- Control unit 1 for information electronics - J794- with integrated CD player/SD memory card readers/navigation system in glove box, 7UF
- Multimedia system operating unit - E380- in centre console, UJ0
- Display unit for front information display and operating unit control unit - J685- (7 inch display) in dash panel (centre)
- Connection for external audio sources - R199- in centre console storage compartment, USB charging, AUX IN socket, UE4
- Sound systems: Audi sound system/premium Bang & Olufsen sound system, 9VD/9VS
- Digital sound package control unit - J525- in luggage compartment (rear left), 9VS only
- Radio - R- integrated in control unit 1 for information electronics - J794- , I8S
- Video input for reversing camera system, KA2
- Bluetooth hands-free system, 9ZX
- Speech dialogue system, QH1

Optional equipment

- Digital radio - R147- integrated in control unit 1 for information electronics - J794- , Europe/rest-of-world and QV3 only
- Satellite radio - R146- integrated in control unit 1 for information electronics - J794- , USA and QV3 only
- Connection for external audio sources - R199- in centre console storage compartment, 2x USB, AUX IN socket, ASI, UI2/ UE7
- Control unit in dash panel insert - J285- , colour display in dash panel insert, 9S7
- Audi phone box, 9ZE
- Audi phone box/Audi connect, 9ZE/EL3
- Emergency call system, IW3/IW5

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♦ Multi-function steering wheel

ASI - Audi smartphone interface

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1 - Roof aerial - R216-

2 - Rear window aerials with aerial amplifier

3 - Display unit for front information display and operating unit control unit - J685- in dash panel (centre)

4 - Multimedia system operating unit - E380- in centre console

5 - CAN bus

6 - Control unit 1 for information electronics - J794- in glove box

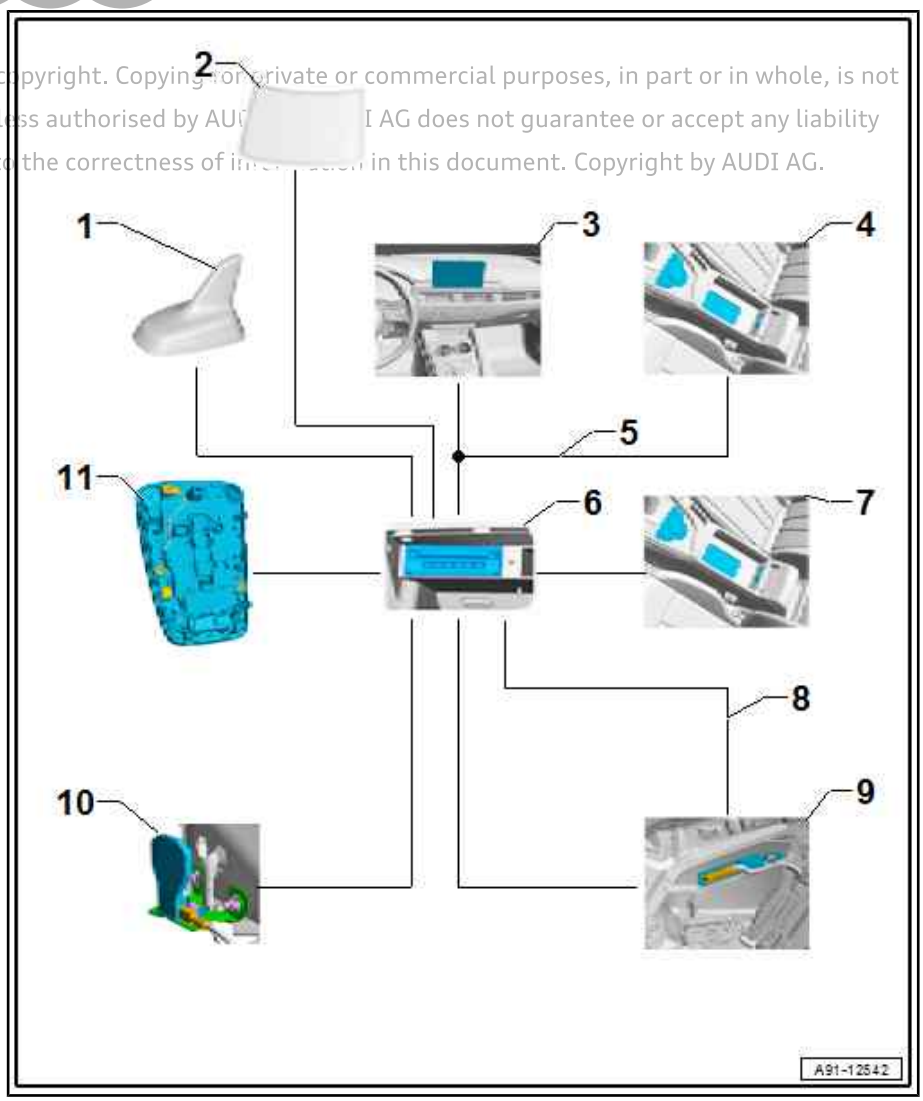
7 - Connection for external audio sources - R199- in centre console storage compartment

8 - MOST bus

9 - Digital sound package control unit - J525- in luggage compartment (rear left)

10 - Bumper aerials

11 - Microphone unit in front roof module - R164- in front interior light - W1-



The exchange of data in the MMI systems takes place via the CAN bus and the MOST bus.

Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

Notes on MOST bus

In addition to the CAN bus, the fibre optic data bus “MOST bus” is used.

A fibre optic cable is used. The fibre optic cables are fitted in corrugated tubes for protection.

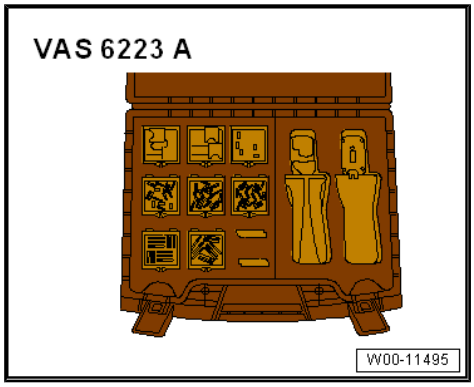
Renew the complete fibre optic cable whenever possible.

The end faces of the connectors must not become dirty.

If connectors are unplugged: fit a protective cap for cable connector - VAS 6223/9- .

When installing the fibre optic cables, be sure to observe the minimum bending radius of 25 mm. Do not crush or kink the fibre optic cable.

Repairing fibre optic cables ⇒ page 1 .



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1.1.3 Layout - infotainment system, MMI navigation system plus, I8H

On the “MMI navigation system plus” infotainment system, the following functions are integrated in control unit 1 for information electronics - J794- :

- Control unit 1 for information electronics - J794- with integrated DVD player/SD memory card readers/navigation system/ HDD in glove box, 7UG
- Multimedia system operating unit - E380- - MMI touch in centre console, UJ1
- Display unit for front information display and operating unit control unit - J685- (8.3 inch display) in dash panel (centre)
- Control unit in dash panel insert - J285- , colour display in dash panel insert, 9S7
- Connection for external audio sources - R199- in centre console storage compartment, USB charging, AUX IN socket, UE4/UE7
- Sound systems: basic sound/Audi sound system, 8RM/9VD
- Radio - R- integrated in control unit 1 for information electronics - J794-
- Video input for reversing camera system, KA2
- Bluetooth hands-free system, 9ZX
- Speech dialogue system, QH1

Optional equipment

- Digital radio - R147- integrated in control unit 1 for information electronics - J794- , Europe/rest-of-world and QV3 only
- Satellite radio - R146- integrated in control unit 1 for information electronics - J794- , USA and QV3 only
- Digital sound package control unit - J525- in luggage compartment (rear left), 9VS only
- Dash panel insert - KX2- , “Audi virtual cockpit”, 9S8
- Connection for external audio sources - R199- in centre console storage compartment, 2x USB, AUX IN socket, ASI, UI2/ UE7
- TV tuner - R78- in luggage compartment (rear right), QU1/QV1
- Sound system: premium Bang & Olufsen sound system, 9VS
- Audi phone box, 9ZE
- Audi phone box/Audi connect, 9ZE/EL3

- Emergency call system, IW3/IW5
- Multi-function steering wheel

ASI - Audi smartphone interface

1 - Roof aerial - R216-

2 - Rear window aerials with aerial amplifier

3 - Display unit for front information display and operating unit control unit - J685- in dash panel (centre)

4 - Multimedia system operating unit - E380- in centre console

5 - CAN bus

6 - Control unit 1 for information electronics - J794- in glove box

7 - Telephone bracket - R126- / connection for external audio sources - R199- in centre console storage compartment

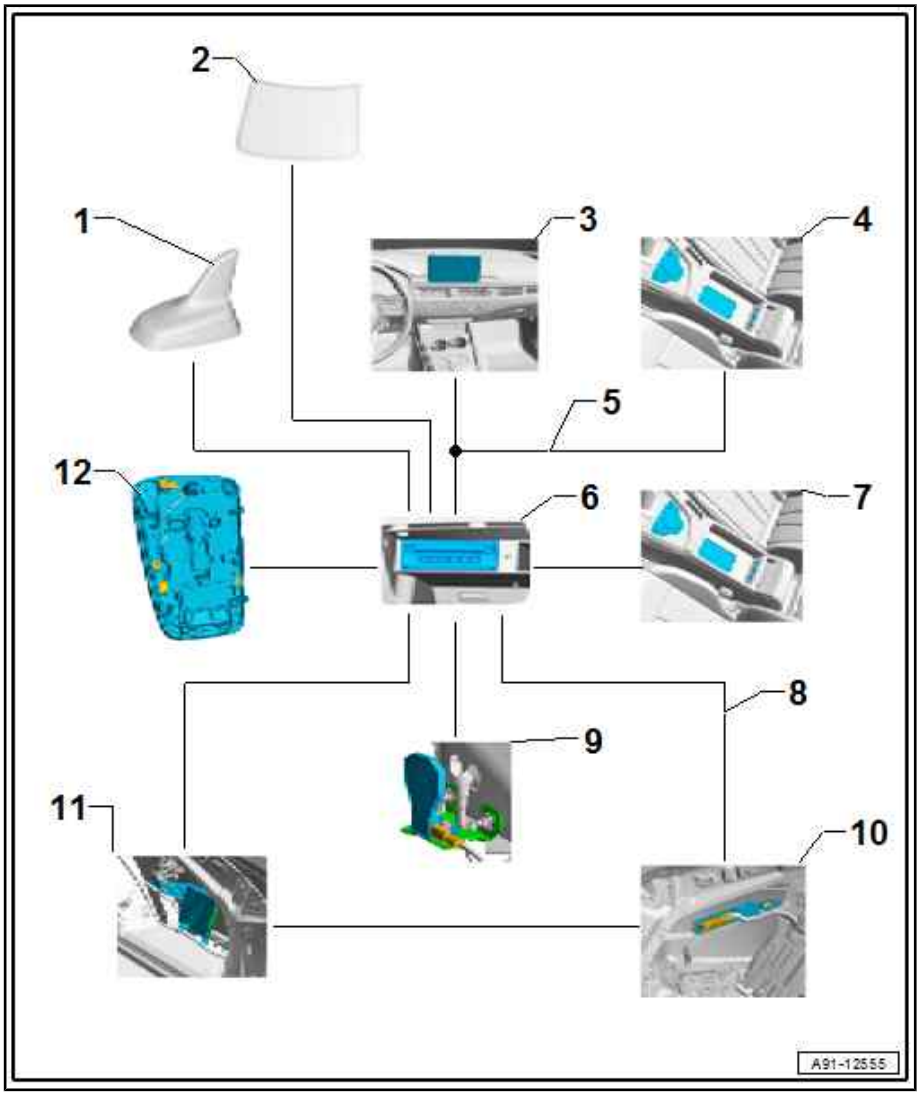
8 - MOST bus

9 - Bumper aerials

10 - Digital sound package control unit - J525- in luggage compartment (rear left)

11 - TV tuner - R78- in luggage compartment (rear right)

12 - Microphone unit in front roof module - R164- in front interior light - W1-



The exchange of data in the MMI systems takes place via the CAN bus and the MOST bus.

Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

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Notes on MOST bus

In addition to the CAN bus, the fibre optic data bus “MOST bus” is used.

A fibre optic cable is used. The fibre optic cables are fitted in corrugated tubes for protection.

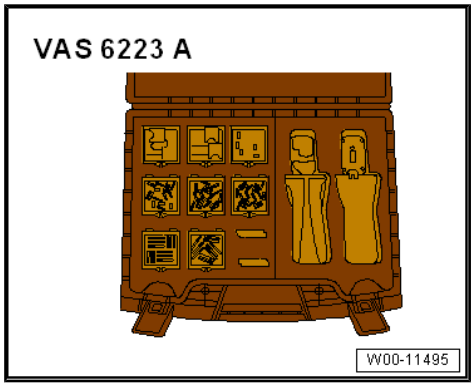
Renew the complete fibre optic cable whenever possible.

The end faces of the connectors must not become dirty.

If connectors are unplugged: fit a protective cap for cable connector - VAS 6223/9- .

When installing the fibre optic cables, be sure to observe the minimum bending radius of 25 mm. Do not crush or kink the fibre optic cable.

Repairing fibre optic cables ⇒ page 1 .



1.2 Overview of fitting locations - infotainment system

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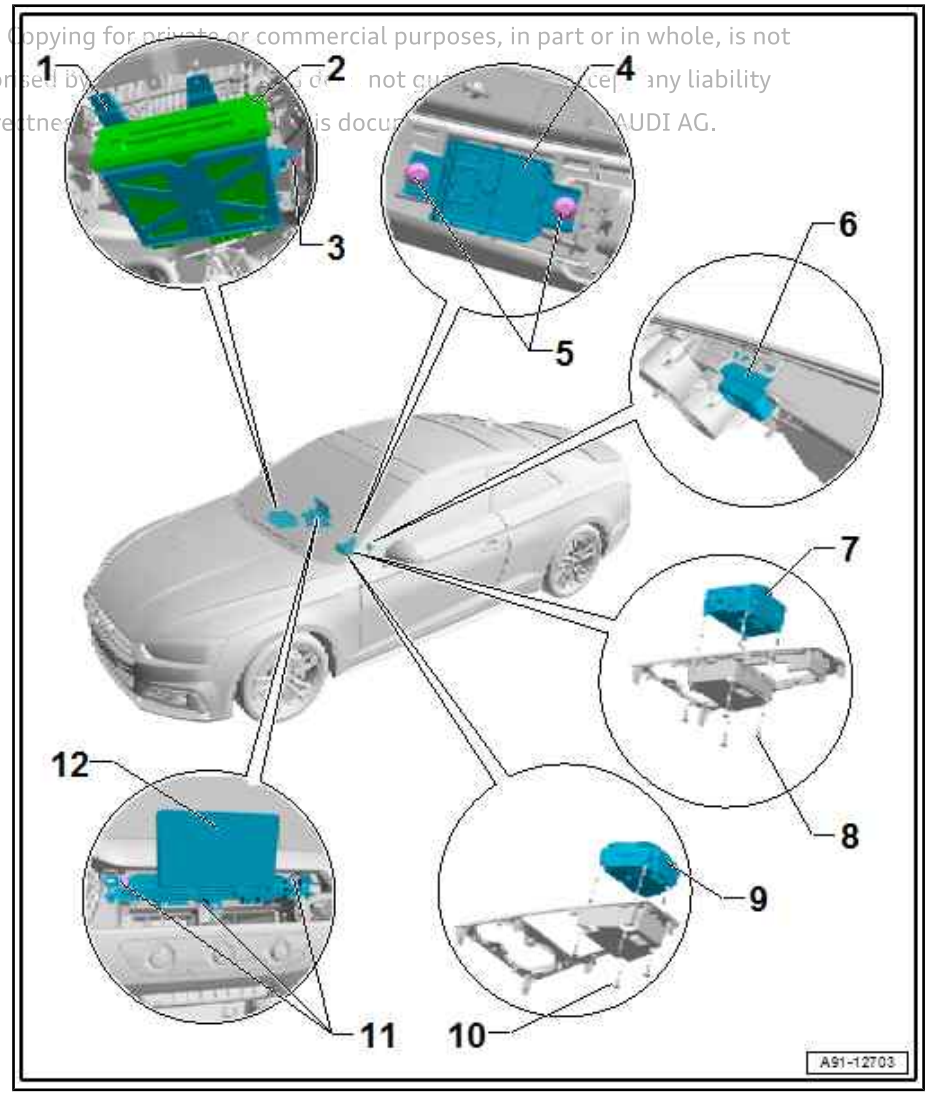

1 - Bracket

2 - Control unit 1 for information electronics - J794-

- ❑ In glove box
- ❑ ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- ❑ Removing and installing ⇒ page 10

3 - Bolt

- ❑ 2x
- ❑ 3 Nm

4 - Driver side volume regulator - E67-

- ❑ In centre console
- ❑ Removing and installing ⇒ page 13

5 - Bolt

- ❑ 2x
- ❑ 2 Nm

6 - Multimedia system button module - E817-

- ❑ In centre console
- ❑ Removing and installing ⇒ page 14

7 - Multimedia system operating unit - E380-

- ❑ In centre console
- ❑ Vehicles with automatic gearbox
- ❑ Removing and installing ⇒ page 13

8 - Bolt

- ❑ 4x
- ❑ 2 Nm

9 - Multimedia system operating unit - E380-

- ❑ In centre console

- ❑ Vehicles with manual gearbox
- ❑ Removing and installing ⇒ page 12

10 - Bolt

- ❑ 4x
- ❑ 2 Nm

11 - Bolt

- ❑ 3x
- ❑ 3 Nm

12 - Display unit for front information display and operating unit control unit - J685-

- ❑ In dash panel (centre)
- ❑ ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- ❑ Removing and installing ⇒ page 9

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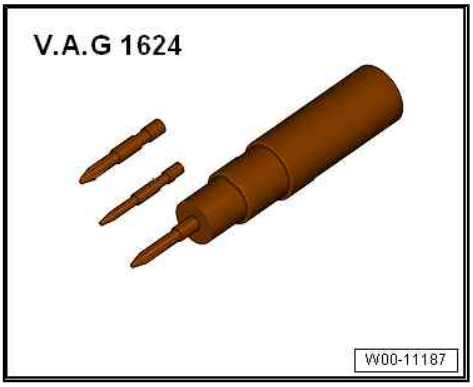
1.3 Removing and installing infotainment system display

Special tools and workshop equipment required

- ♦ Torque screwdriver - V.A.G 1624-



Display unit for front information display and operating unit control unit - J685- (infotainment system display) is located in dash panel (centre).

Removing

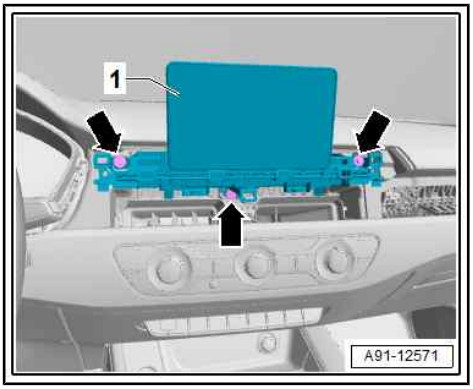
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove dash panel vent (passenger side) ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel; Removing and installing dash panel vent .

Securing bolts are accessible once dash panel vent (front passenger side) has been removed.

– Remove bolts -arrows- and detach display unit for front information display and operating unit control unit - J685- -1- from dash panel.

– Release and unplug electrical connectors.



Installing

Installation is carried out in reverse order; note the following:

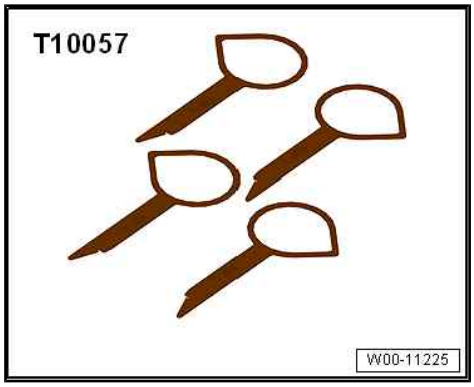
Tightening torques

- ♦ ⇒ “1.2 Overview of fitting locations - infotainment system”, page 8

1.4 Removing and installing control unit 1 for information electronics - J794-

Special tools and workshop equipment required

- Radio release tool - T10057-



- Protective cap for cable connector - VAS 6223/9-

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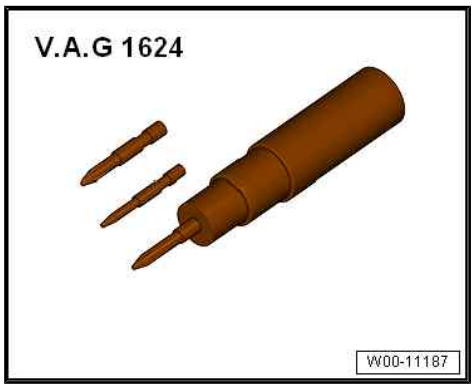
- Torque screwdriver - V.A.G 1624-



The control unit 1 for information electronics - J794- is located in the glove box.

Note

If control unit is to be renewed, select the "Replace control unit" function for appropriate control unit in ⇒ Vehicle diagnostic tester.

The control unit 1 for information electronics - J794- is located in the glove box. Trim frame of control unit 1 for information electronics - J794- is permanently attached to the glove box. The glove box must be removed first.

Removing

– Take out CDs/DVDs and SD/SIM cards that are still in control unit 1 for information electronics - J794- .

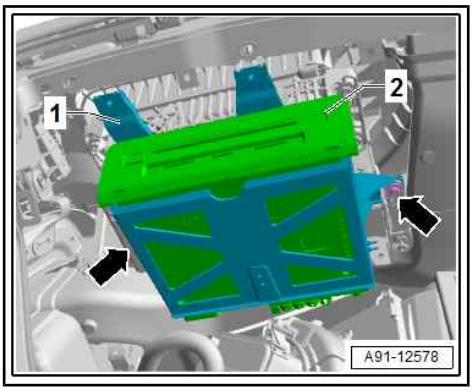
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove glove box ⇒ General body repairs, interior; Rep. gr. 68 ; Storage compartments/covers/trim panels; Removing and installing glove box .

Wiring to control unit 1 for information electronics - J794- is very short. As a result, the bracket must be removed. Two bolts for the bracket are already removed when the glove box is removed.

– Remove bolts -arrows- and fold bracket -1- downwards.

– Release and unplug electrical connectors at control unit 1 for information electronics - J794- -2-.



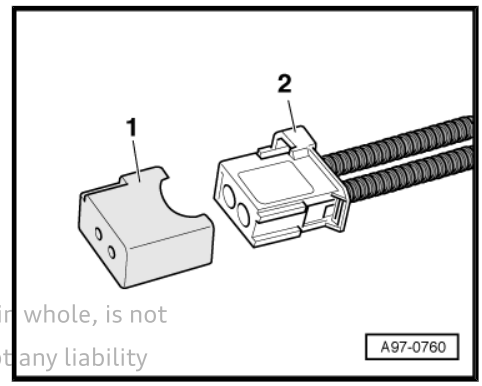
– Fit protective cap for cable connector - VAS 6223/9- -1- onto MOST bus connector -2-.

– Insert two radio release tools - T10057- into slots in control unit 1 for information electronics - J794- .

- Pointed ends of radio release tools - T10057- must face outwards.
- Radio release tools - T10057- must engage properly.

– Grasp hold of grips on radio release tools - T10057- and pull control unit 1 for information electronics - J794- out of bracket.

– Press release tabs on control unit 1 for information electronics - J794- and remove radio release tools - T10057- .



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Installing

Installation is carried out in reverse order; note the following:

– Plug all connectors in.

– Slide control unit 1 for information electronics - J794- into bracket until it engages.

Tightening torques

◆ ⇒ “1.2 Overview of fitting locations - infotainment system”, page 8

1.5 Removing and installing multimedia system operating unit - E380-

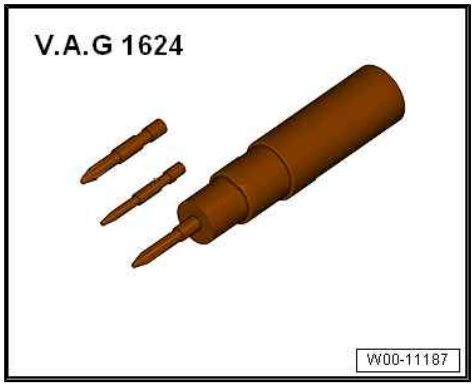
⇒ “1.5.1 Removing and installing multimedia system operating unit E380 - manual gearbox”, page 12

⇒ “1.5.2 Removing and installing multimedia system operating unit E380 - automatic gearbox”, page 13

1.5.1 Removing and installing multimedia system operating unit - E380- - manual gearbox

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-



The multimedia system operating unit - E380- is located in the centre console.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

Caution

The surfaces become scratched easily. Carefully mask all surfaces and components to provide protection.

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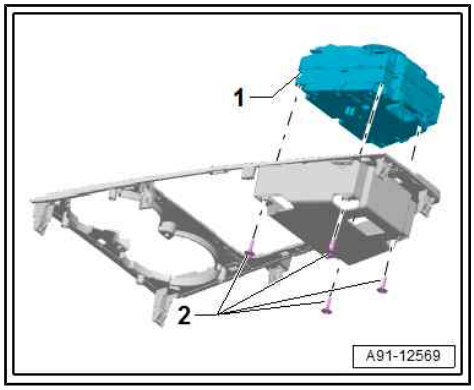
– Remove centre console insert ⇒ General body repairs, interior; Rep. gr. 68 ; Centre console; Removing and installing centre console insert .

– Remove trim panel for centre console insert ⇒ General body repairs, interior; Rep. gr. 68 ; Centre console; Removing and installing trim panel for centre console .

– Remove bolts -2- and pull multimedia system operating unit - E380- -1- upwards out of centre console insert.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “1.2 Overview of fitting locations - infotainment system”, page 8

1.5.2 Removing and installing multimedia system operating unit - E380- - automatic gearbox

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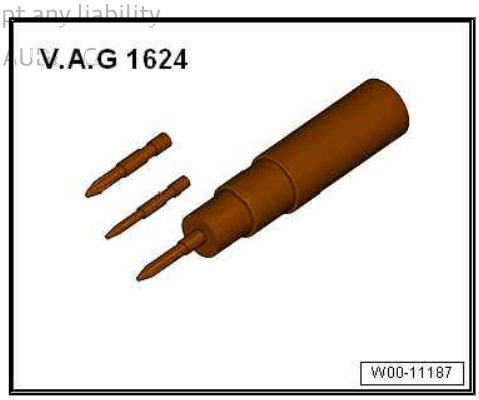
Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-



The multimedia system operating unit - E380- is located in the centre console.

Removing

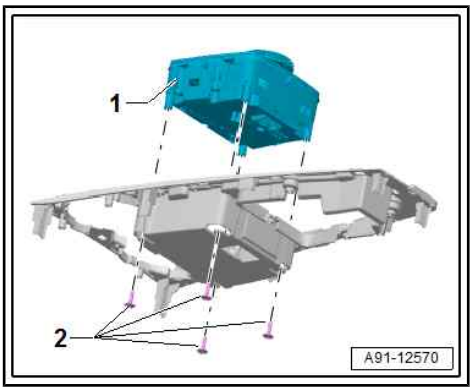
– Switch off ignition and all electrical equipment, and remove ignition key.

> **Caution**
>
> *The surfaces become scratched easily. Carefully mask all surfaces and components to provide protection.*

– Remove insert for centre console ⇒ General body repairs, interior; Rep. gr. 68 ; Centre console; Removing and installing insert for centre console .

– Remove trim panel for centre console insert ⇒ General body repairs, interior; Rep. gr. 68 ; Centre console; Removing and installing trim panel for centre console .

– Remove bolts -2- and pull multimedia system operating unit - E380- -1- upwards out of centre console insert.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “1.2 Overview of fitting locations - infotainment system”, page 8

1.6 Removing and installing driver side volume regulator - E67-

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-

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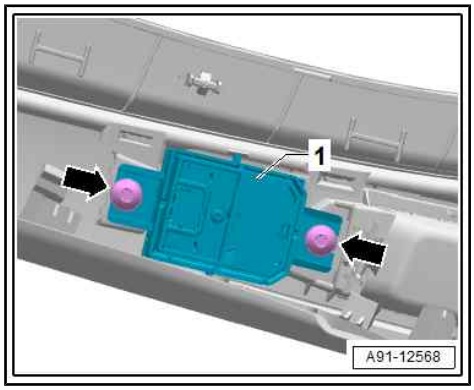
Driver side volume regulator - E67- is installed in insert for centre console.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove decorative trim ⇒ General body repairs, interior; Rep. gr. 68 ; Centre console; Exploded view - centre console .

Driver side volume regulator - E67- is bolted to decorative trim.



– Remove bolts -arrows- and detach driver side volume regulator - E67- -1- from decorative trim.

Installing

Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “1.2 Overview of fitting locations - infotainment system”, page 8

1.7 Removing and installing multimedia system button module - E817-

Multimedia system button module - E817- is installed in insert for centre console on vehicles with manual gearbox.

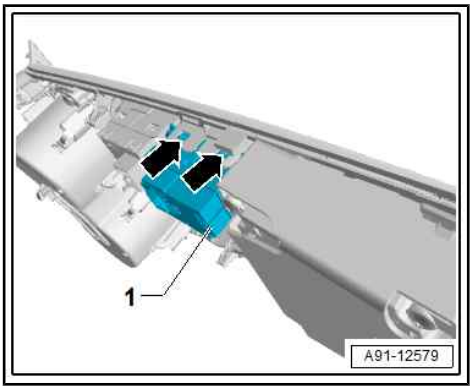
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove insert for centre console ⇒ General body repairs, interior; Rep. gr. 68 ; Centre console; Removing and installing insert for centre console .

The multimedia system button module - E817- is clipped to trim for insert for centre console (4x).

– Unclip multimedia system button module - E817- -1- -arrows- and press out of trim for insert for centre console downwards.



Installing

Installation is carried out in reverse sequence.

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2 Sound system

⇒ “2.1 Layout - sound system”, page 16

⇒ “2.2 Overview of fitting locations - sound system”, page 20

⇒ “2.3 Removing and installing digital sound package control unit/ amplifier”, page 27

⇒ “2.4 Removing and installing rear treble loudspeakers R14 / R16 ”, page 31

⇒ “2.5 Removing and installing front treble loudspeakers R20 / R22 ”, page 33

⇒ “2.6 Removing and installing front treble loudspeakers 2 R220 / R221 ”, page 35

⇒ “2.7 Removing and installing front mid-range loudspeakers”, page 35

⇒ “2.8 Removing and installing front mid-range loudspeakers 2 R276 / R277 ”, page 36

⇒ “2.9 Removing and installing rear bass loudspeakers R15 / R17 ”, page 37

⇒ “2.10 Removing and installing front bass loudspeakers R21 / R23 ”, page 39

⇒ “2.11 Removing and installing subwoofer R211 ”, page 40

⇒ “2.12 Removing and installing rear subwoofers R239 / R240 ”, page 44

⇒ “2.13 Removing and installing effect loudspeakers”, page 45

⇒ “2.14 Removing and installing centre loudspeaker”, page 48

2.1 Layout - sound system

The following systems are available:

- 8RM - Basic sound system ⇒ page 16
- 9VD - Standard sound system ⇒ page 17
- 9VS - Premium Bang & Olufsen sound system ⇒ page 18

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8RM - Basic sound system

- One loudspeaker in each front door (left and right)
- One loudspeaker on each side of dash panel
- Two loudspeakers in each rear side trim (left and right doors)

1 - Control unit 1 for information electronics - J794- in glove box

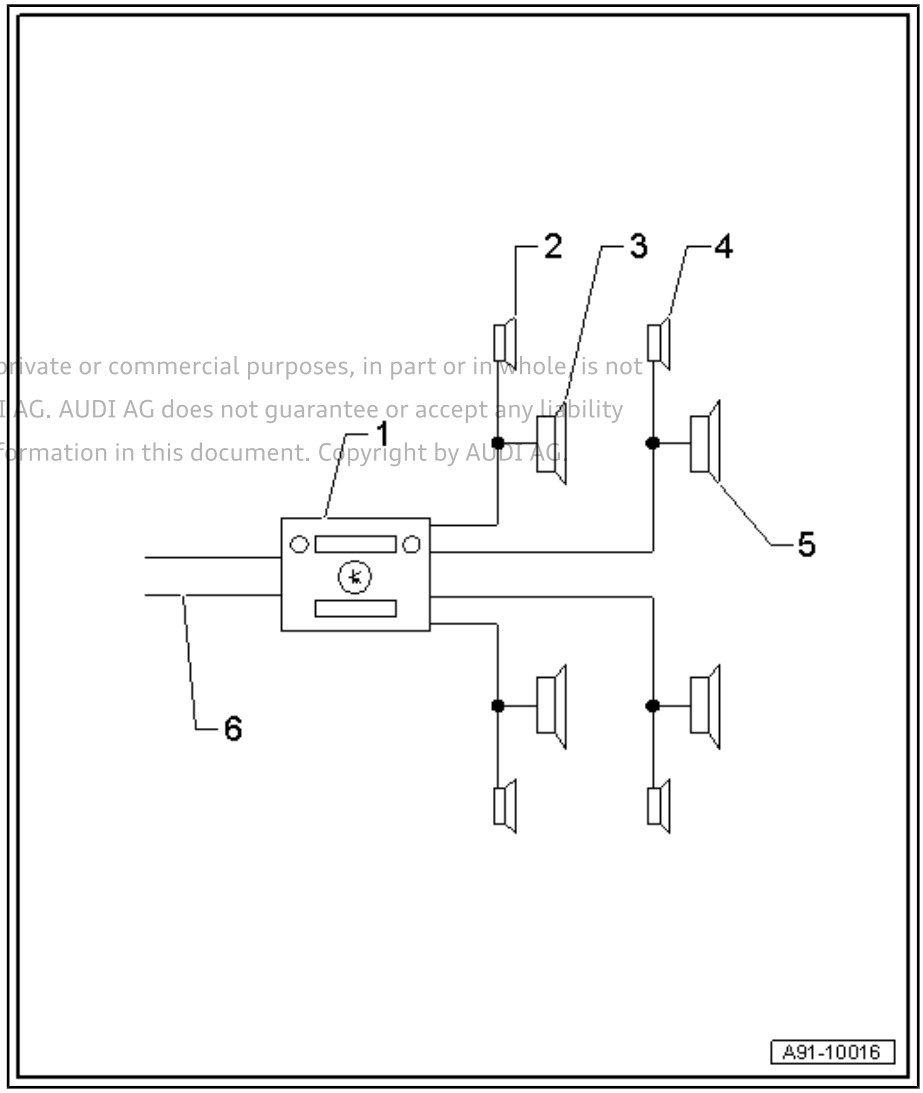
2 - Front left treble loudspeaker - R20- / front right treble loudspeaker - R22- in dash panel (left and right)

3 - Front left bass loudspeaker - R21- / front right bass loudspeaker - R23- in front doors (bottom)

4 - Rear left treble loudspeaker - R14- / rear right treble loudspeaker - R16- in rear side trim panels/doors (top)

5 - Rear left bass loudspeaker - R15- / rear right bass loudspeaker - R17- in rear side trim panels (centre)/doors (bottom)

6 - MOST bus



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9VD - Standard sound system

- One loudspeaker in each front door (left and right)
- One loudspeaker on each side of dash panel
- One loudspeaker in centre of dash panel
- Two loudspeakers in each rear side trim (left and right doors)
- Subwoofer - R211- in rear shelf, Coupé only
- Subwoofer - R211- in luggage compartment recess, Sportback only
- Subwoofer - R211- in side trim, Cabriolet only

1 - Control unit 1 for information electronics - J794- in glove box

2 - Front left treble loudspeaker - R20- / front right treble loudspeaker - R22- in dash panel (left and right)

3 - Front left bass loudspeaker - R21- / front right bass loudspeaker - R23- in front doors (bottom)

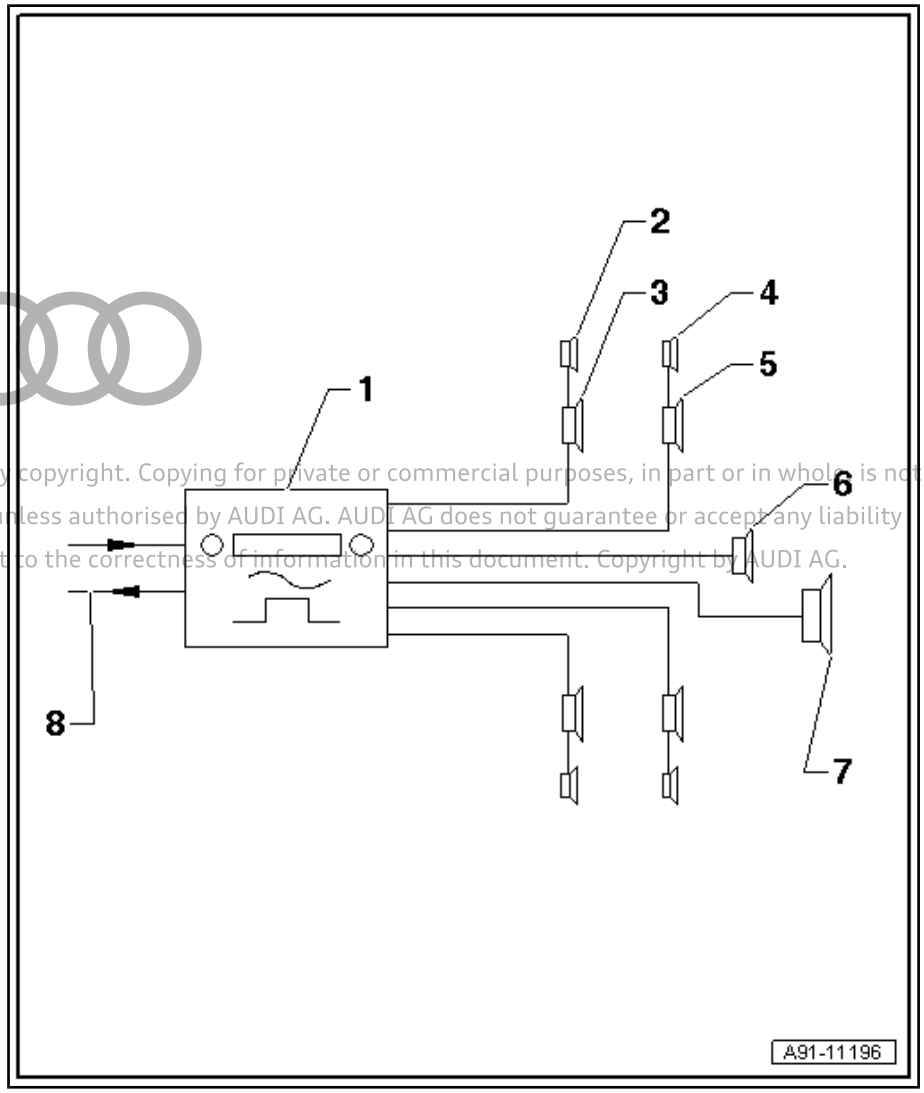
4 - Rear left treble loudspeaker - R14- / rear right treble loudspeaker - R16- in rear side trim panels/doors (top)

5 - Rear left bass loudspeaker - R15- / rear right bass loudspeaker - R17- in rear side trim panels (centre)/doors (bottom)

6 - Centre loudspeaker - R208- in dash panel (centre)

7 - Subwoofer - R211- in rear shelf/luggage compartment recess/side trim

8 - MOST bus



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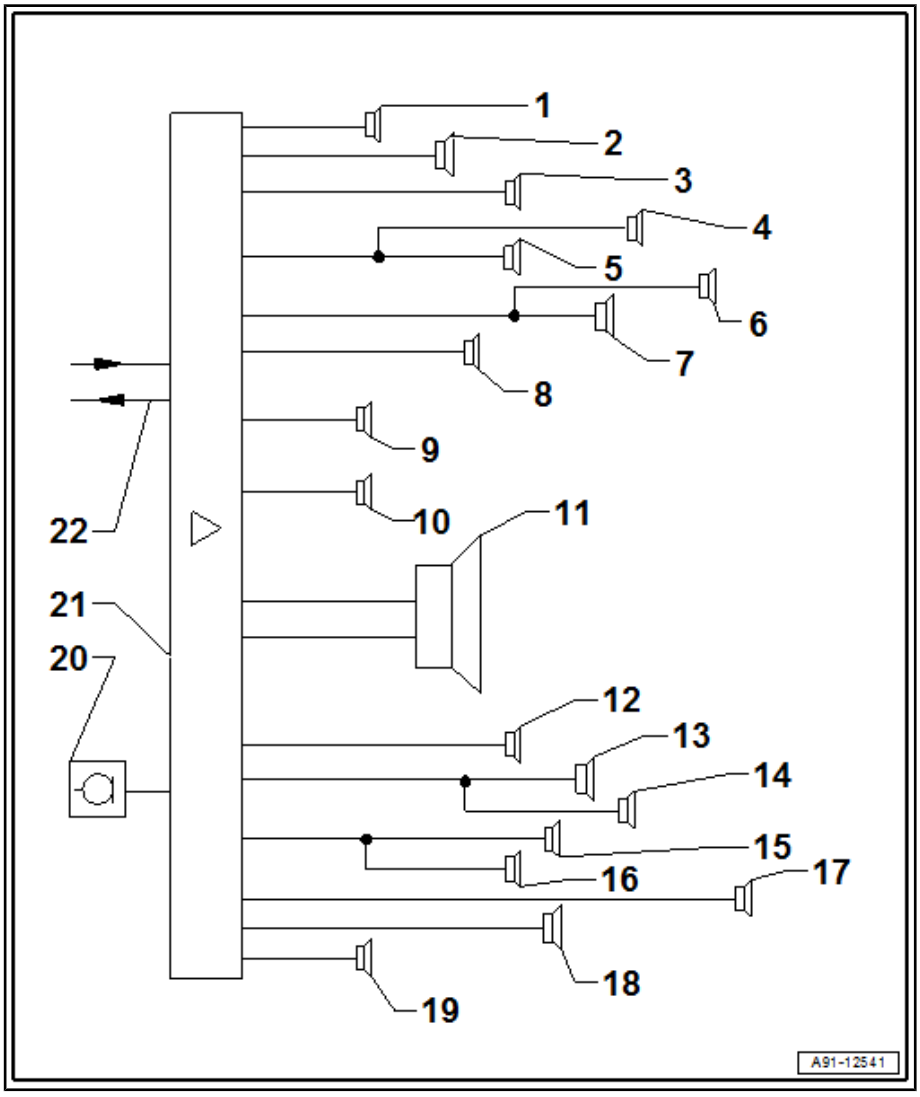
9VS - Premium Bang & Olufsen sound system

- Two loudspeakers in each A-pillar (left and right)
- Two loudspeakers in each front door (left and right)
- One loudspeaker on each side of dash panel
- Two loudspeakers in centre of dash panel
- Two loudspeakers in each rear side trim (left and right doors)
- Two loudspeakers on each side of rear shelf and in each D-pillar/side trim (left and right)
- Subwoofer - R211- , for Coupé and Sportback only
- Rear left subwoofer - R239- and rear right subwoofer - R240- , for Cabriolet only
- Digital sound package control unit - J525- in luggage compartment (rear left)



1 - Front left treble loudspeaker 2 - R220- in A-pillar (top left)

2 - Front left mid-range loudspeaker 2 - R276- in dash panel (left-side)

3 - Front left bass loudspeaker - R21- in front left door (bottom)

4 - Front left mid-range loudspeaker - R103- in front left door (centre)

5 - Front left treble loudspeaker - R20- in A-pillar (top left)

6 - Rear left treble loudspeaker - R14- in rear side trim/door (top)

7 - Rear left bass loudspeaker - R15- in rear side trim (centre)/door (bottom)

8 - Left effect loudspeaker - R209- in rear shelf/D-pillar/side trim (left-side)

9 - Centre loudspeaker - R208- in dash panel (centre)

10 - Centre loudspeaker 2 - R219- in dash panel (centre)

11 - Subwoofer - R211- in rear shelf/luggage compartment recess, for Coupé and Sportback only

- Rear subwoofer -R239- / - R240- behind side trim (left/right), for Cabriolet only

12 - Right effect loudspeaker - R210- in rear shelf/D-pillar/side trim (right-side)

13 - Rear right bass loudspeaker - R17- in rear side trim (centre)/door (bottom)

14 - Rear right treble loudspeaker - R16- in rear side trim/door (top)

15 - Front right treble loudspeaker - R22- in A-pillar (top right)

16 - Front right mid-range loudspeaker - R104- in front right door (centre)

17 - Front right bass loudspeaker - R23- in front right door (bottom)

18 - Front right mid-range loudspeaker 2 - R277- in dash panel (right-side)

19 - Front right treble loudspeaker 2 - R221- in A-pillar (top right)

20 - Internal microphone - R74- , microphone unit in front roof module - R164- in front interior light - W1-

21 - Digital sound package control unit - J525- in luggage compartment (rear left)

22 - MOST bus

Notes on MOST bus

In addition to the CAN bus, the fibre optic data bus “MOST bus” is used.

A fibre optic cable is used. The fibre optic cables are fitted in corrugated tubes for protection.

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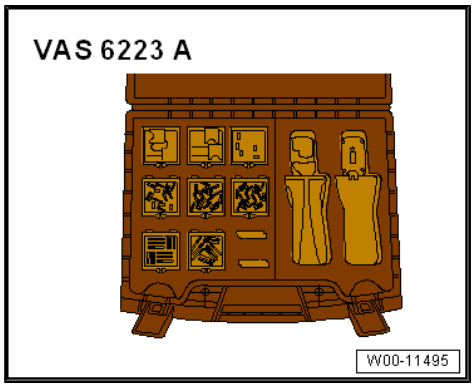
Renew the complete fibre optic cable whenever possible.

The end faces of the connectors must not become dirty.

If connectors are unplugged: fit a protective cap for cable connector - VAS 6223/9- .

When installing the fibre optic cables, be sure to observe the minimum bending radius of 25 mm. Do not crush or kink the fibre optic cable.

Repairing fibre optic cables ⇒ page 1 .



2.2 Overview of fitting locations - sound system

⇒ “2.2.1 Overview of fitting locations - sound system, loudspeakers, Coupé”, page 20

⇒ “2.2.2 Overview of fitting locations - sound system, loudspeakers, Sportback”, page 22

⇒ “2.2.3 Overview of fitting locations - sound system, loudspeakers, Cabriolet”, page 24

⇒ “2.2.4 Overview of fitting locations - sound system, microphones, amplifier, Coupé/Sportback”, page 26

⇒ “2.2.5 Overview of fitting locations - sound system, microphones, amplifier, Cabriolet”, page 27

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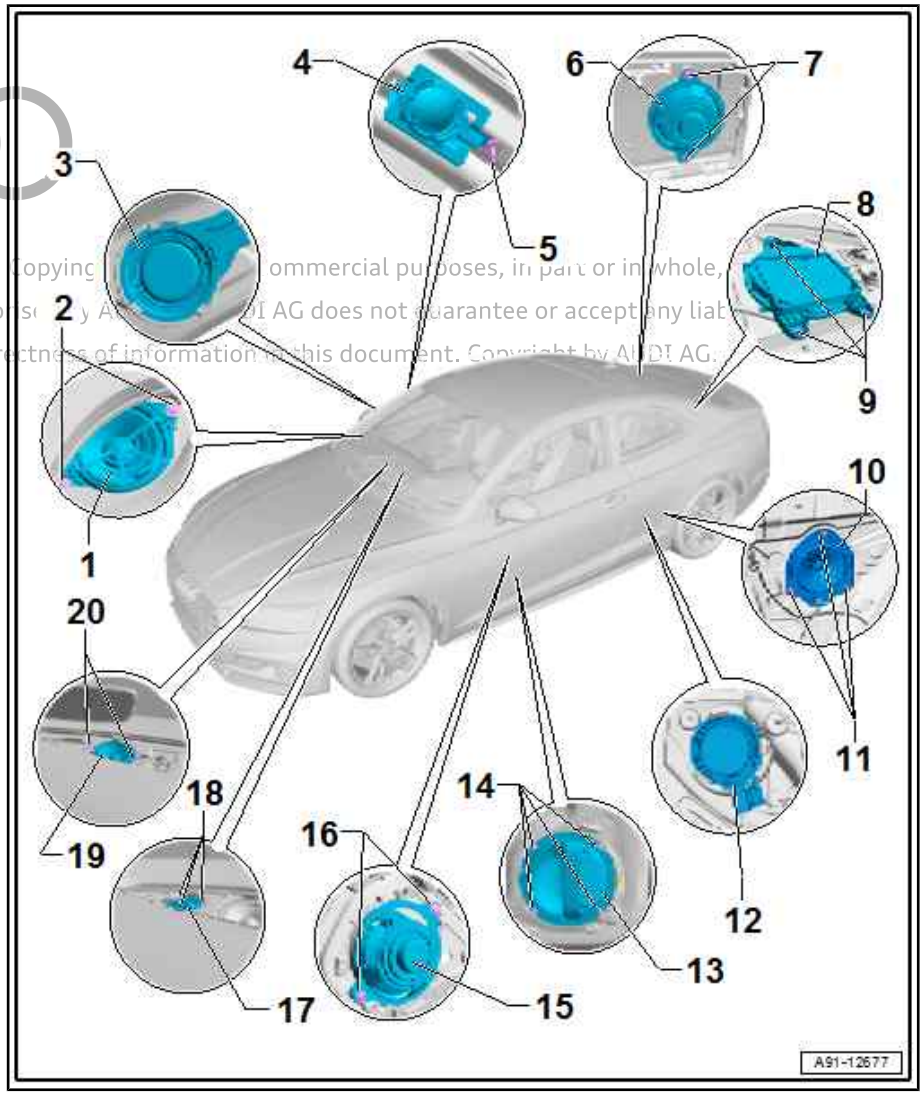
2.2.1 Overview of fitting locations - sound system, loudspeakers, Coupé



1 - Front left treble loudspeaker - R20- / front right treble loudspeaker - R22- , 8RM, 9VD

Front left mid-range loudspeaker 2 - R276- / front right mid-range loudspeaker 2 - R277- , 9VS

- ❑ Removing and installing ⇒ page 33

2 - Bolt

- ❑ 2x
- ❑ 2 Nm

3 - Front left treble loudspeaker - R20- / front right treble loudspeaker - R22- , 9VS

- ❑ Removing and installing ⇒ page 34

4 - Front left treble loudspeaker 2 - R220- / front right treble loudspeaker 2 - R221- , 9VS

- ❑ Removing and installing ⇒ page 35

5 - Pop rivet

- ❑ ⇒ Electronic parts catalogue “ETKA”

6 - Left effect loudspeaker - R209- / right effect loudspeaker - R210- , 9VS

- ❑ Removing and installing ⇒ page 45

7 - Bolt

- ❑ 2x
- ❑ 2 Nm

8 - Subwoofer - R211- , 9VD, 9VS

- ❑ Removing and installing ⇒ page 40

9 - Bolt

- ❑ 3x
- ❑ 2 Nm

10 - Rear left bass loudspeaker - R15- / rear right bass loudspeaker - R17-

- ❑ Removing and installing ⇒ page 37

11 - Bolt

- ❑ 3x
- ❑ 3 Nm

12 - Rear left treble loudspeaker - R14- / rear right treble loudspeaker - R16-

- ❑ Removing and installing ⇒ page 31

13 - Front left bass loudspeaker - R21- / front right bass loudspeaker - R23-

- ❑ Removing and installing ⇒ page 39

14 - Bolt

- ❑ 4x
- ❑ 3 Nm

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15 - Front left mid-range loudspeaker - R103- / front right mid-range loudspeaker - R104- , 9VS

- ❑ Removing and installing ⇒ page 35

16 - Bolt

- ❑ 2x
- ❑ 2 Nm

17 - Centre loudspeaker 2 - R219- , 9VS

- ❑ Removing and installing ⇒ page 49

18 - Retainers

19 - Centre loudspeaker - R208- , 9VD, 9VS

- ❑ Removing and installing ⇒ page 48

20 - Bolt

- ❑ 2x
- ❑ 2 Nm

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2.2.2 Overview of fitting locations - sound system, loudspeakers, Sportback

1 - Front left treble loudspeaker - R20- / front right treble loudspeaker - R22- , 8RM, 9VD

Front left mid-range loudspeaker 2 - R276- / front right mid-range loudspeaker 2 - R277- , 9VS

- ❑ Removing and installing ⇒ page 33

2 - Bolt

- ❑ 2x
- ❑ 2 Nm

3 - Front left treble loudspeaker - R20- / front right treble loudspeaker - R22- , 9VS

- ❑ Removing and installing ⇒ page 34

4 - Front left treble loudspeaker 2 - R220- / front right treble loudspeaker 2 - R221- , 9VS

- ❑ Removing and installing ⇒ page 35

5 - Pop rivet

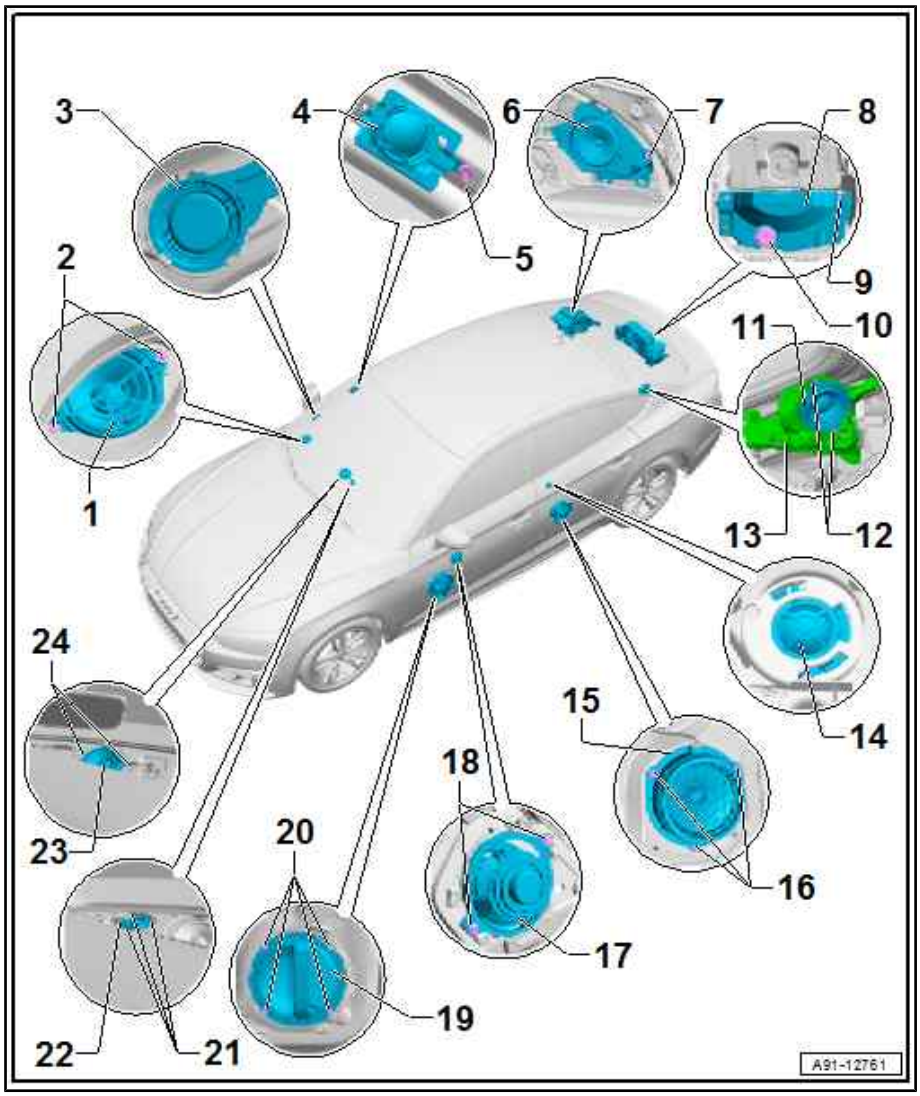
- ❑ ⇒ Electronic parts catalogue “ETKA”

6 - Subwoofer - R211- , 9VD, 9VS

- ❑ Only on Audi g-tron
- ❑ Removing and installing ⇒ page 43

7 - Nut

- ❑ Only on Audi g-tron
- ❑ 4x
- ❑ 3 Nm



8 - Subwoofer - R211- , 9VD, 9VS

- ❑ Not on Audi g-tron
- ❑ Removing and installing ⇒ page 41
- ❑ Removing and installing on vehicles with second battery (VH0 + 0K4) ⇒ page 43

9 - Nut

- ❑ Not on Audi g-tron
- ❑ 3x
- ❑ 3 Nm

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10 - Bolt

- ❑ Not on Audi g-tron
- ❑ 10 Nm

11 - Left effect loudspeaker - R209- / right effect loudspeaker - R210- , 9VS

- ❑ Removing and installing ⇒ page 46

12 - Bolt

- ❑ 2x
- ❑ 2 Nm

13 - Bracket

- ❑ For C-pillar trim
- ❑ ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - C-pillar trim

14 - Rear left treble loudspeaker - R14- / rear right treble loudspeaker - R16-

- ❑ Removing and installing ⇒ page 32

15 - Rear left bass loudspeaker - R15- / rear right bass loudspeaker - R17-

- ❑ Removing and installing ⇒ page 38

16 - Bolt

- ❑ 3x
- ❑ 3 Nm

17 - Front left mid-range loudspeaker - R103- / front right mid-range loudspeaker - R104- , 9VS

- ❑ Removing and installing ⇒ page 35

18 - Bolt

- ❑ 2x
- ❑ 2 Nm

19 - Front left bass loudspeaker - R21- / front right bass loudspeaker - R23-

- ❑ Removing and installing ⇒ page 39

20 - Bolt

- ❑ 4x
- ❑ 3 Nm

21 - Retainers

22 - Centre loudspeaker 2 - R219- , 9VS

- ❑ Removing and installing ⇒ page 49

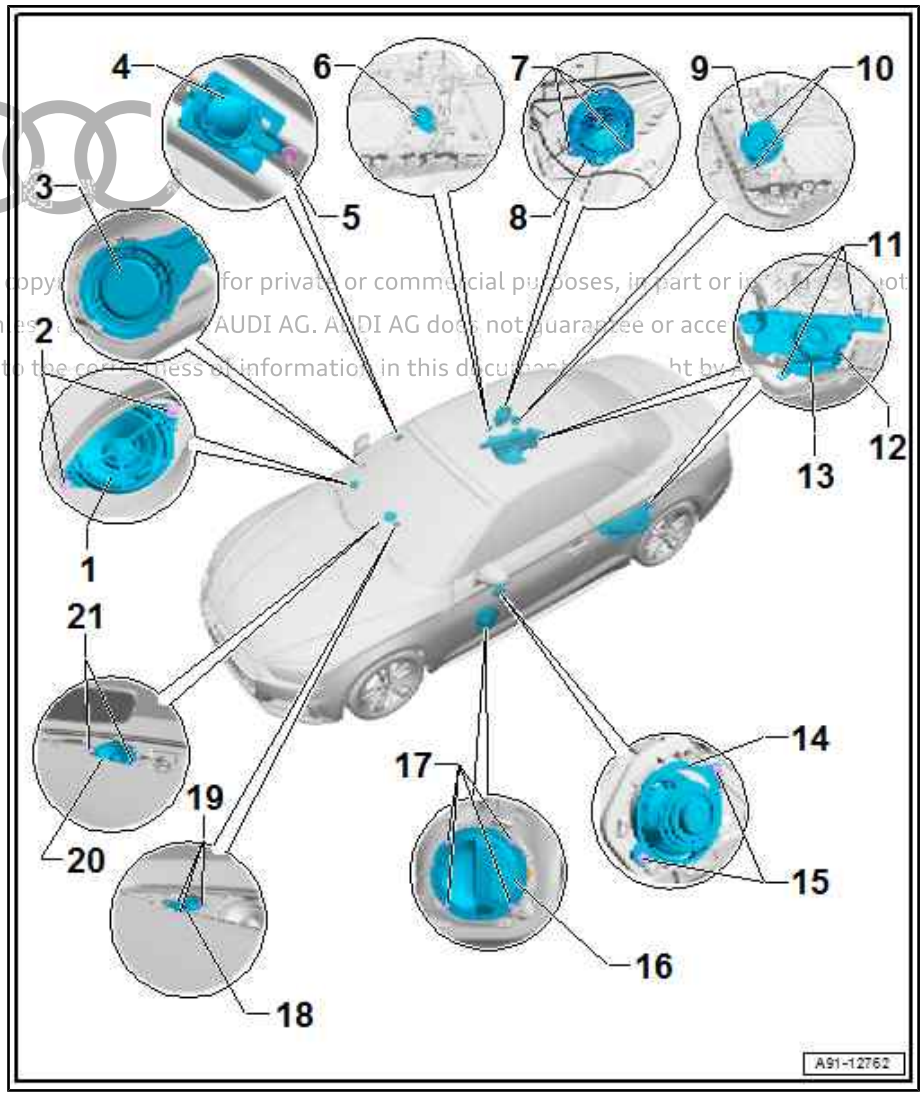
23 - Centre loudspeaker - R208- , 9VD, 9VS

- ❑ Removing and installing ⇒ page 48

24 - Bolt

- ❑ 2x
- ❑ 2 Nm

2.2.3 Overview of fitting locations - sound system, loudspeakers, Cabriolet



1 - Front left treble loudspeaker - R20- / front right treble loudspeaker - R22- , 8RM, 9VD

Front left mid-range loudspeaker 2 - R276- / front right mid-range loudspeaker 2 - R277- , 9VS

- ❑ Removing and installing ⇒ page 33

2 - Bolt

- ❑ 2x
- ❑ 2 Nm

3 - Front left treble loudspeaker - R20- / front right treble loudspeaker - R22- , 9VS

- ❑ Removing and installing ⇒ page 34

4 - Front left treble loudspeaker 2 - R220- / front right treble loudspeaker 2 - R221- , 9VS

- ❑ Removing and installing ⇒ page 35

5 - Pop rivet

- ❑ ⇒ Electronic parts catalogue “ETKA”

6 - Rear left treble loudspeaker - R14- / rear right treble loudspeaker - R16-

- ❑ Removing and installing ⇒ page 32

7 - Bolt

- ❑ 3x
- ❑ 2 Nm

8 - Rear left bass loudspeaker - R15- / rear right bass loudspeaker - R17-

- ❑ Removing and installing ⇒ page 38

9 - Left effect loudspeaker - R209- / right effect loudspeaker - R210- , 9VS

- ❑ Removing and installing ⇒ page 47

10 - Bolt

- ❑ 2x
- ❑ 2 Nm

11 - Nut

- ❑ 3x
- ❑ 3 Nm

12 - Bolt

- ❑ 3 Nm

13 - Subwoofer - R211- , 9VD

- ❑ Subwoofer - R211- installed on left side
- ❑ Removing and installing ⇒ page 42

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- Rear left subwoofer - R239- / rear right subwoofer - R240- , 9VS

- ❑ Removing and installing ⇒ page 44

14 - Front left mid-range loudspeaker - R103- / front right mid-range loudspeaker - R104- , 9VS

- ❑ Removing and installing ⇒ page 35

15 - Bolt

- ❑ 2x
- ❑ 2 Nm

16 - Front left bass loudspeaker - R21- / front right bass loudspeaker - R23-

- ❑ Removing and installing ⇒ page 39

17 - Bolt

- ❑ 4x
- ❑ 3 Nm

18 - Centre loudspeaker 2 - R219- , 9VS

- ❑ Removing and installing ⇒ page 49

19 - Retainers

20 - Centre loudspeaker - R208- , 9VD, 9VS

- ❑ Removing and installing ⇒ page 48

21 - Bolt

- ❑ 2x
- ❑ 2 Nm

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2.2.4 Overview of fitting locations - sound system, microphones, amplifier, Coupé/Sportback

1 - Internal microphone - R74- , 9VS

- ❑ In front roof module - WX3-
- ❑ Removing and installing ⇒ page 120

2 - Front interior light - W1-

- ❑ Removing and installing ⇒ Electrical system; Rep. gr. 96 ; Controls; Removing and installing interior light/reading light (front)
- ❑ With microphone unit in front roof module - R164-
- ❑ Removing and installing ⇒ page 120

3 - Digital sound package control unit - J525- , 9VS

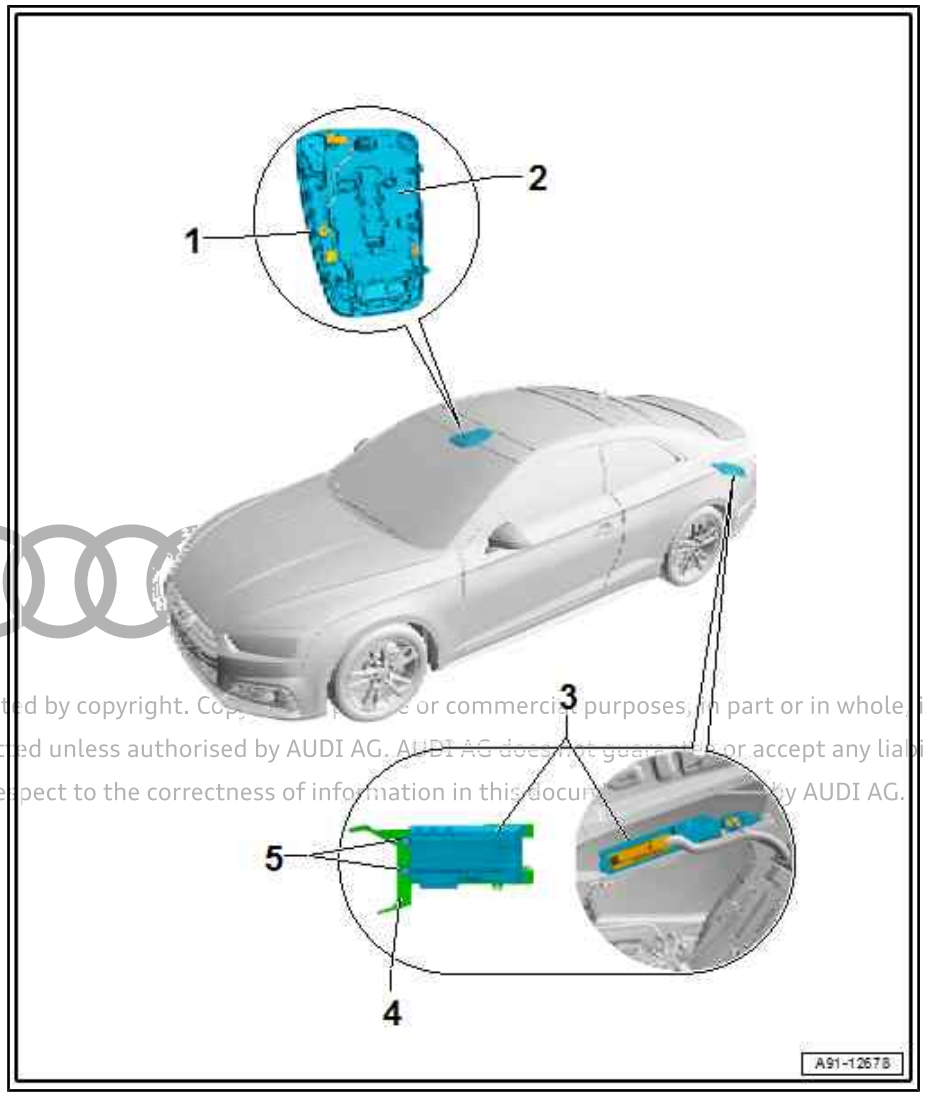
- ❑ In rear left of luggage compartment
- ❑ ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- ❑ Removing and installing ⇒ page 27

4 - Bracket

- ❑ Nut, 3x
- ❑ 3 Nm

5 - Bolt

- ❑ 2x
- ❑ 6 Nm



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2.2.5 Overview of fitting locations - sound system, microphones, amplifier, Cabriolet

1 - Front interior light - W1-

- ❑ Removing and installing ⇒ Electrical system; Rep. gr. 96 ; Controls; Removing and installing interior light/reading light (front)
- ❑ With microphone unit in front roof module - R164-
- ❑ Removing and installing ⇒ page 121

2 - Digital sound package control unit - J525- , 9VS

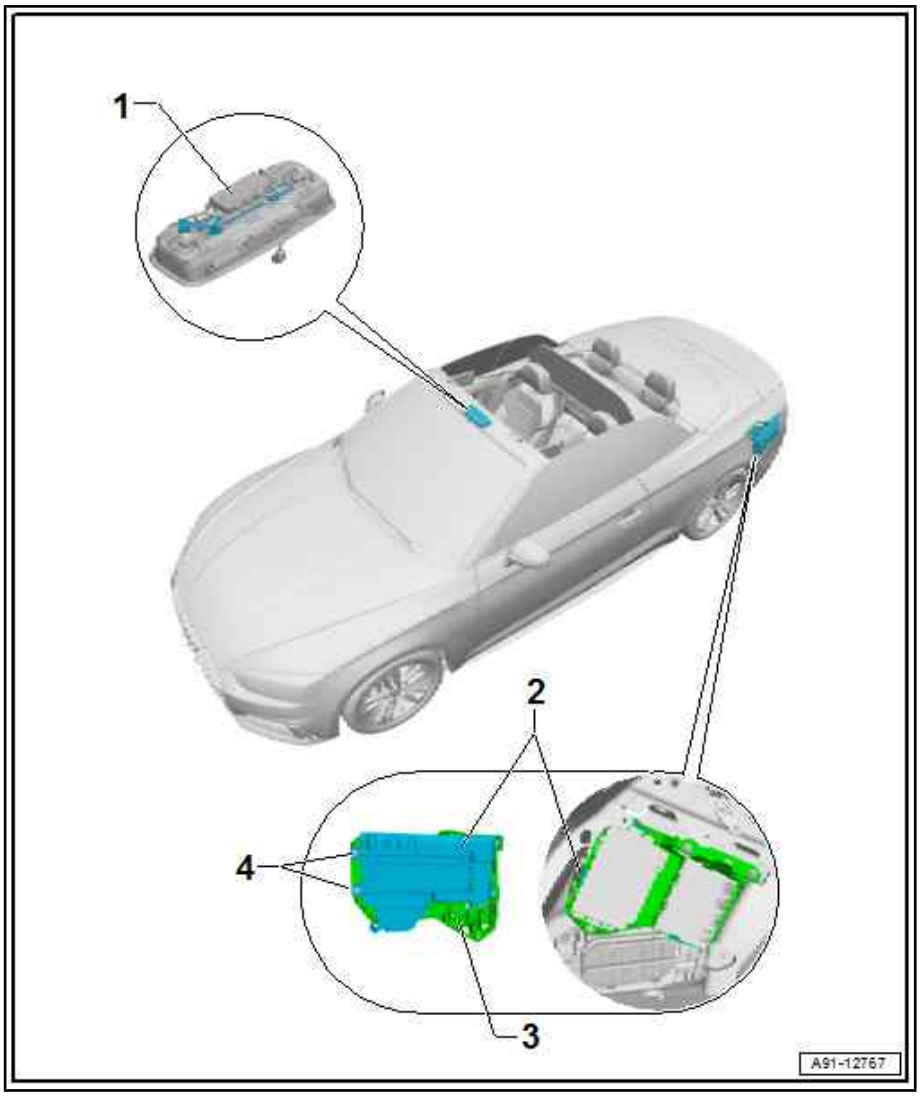
- ❑ In rear left of luggage compartment
- ❑ ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- ❑ Removing and installing ⇒ page 29

3 - Bracket

- ❑ Nut, 3x
- ❑ 3 Nm

4 - Bolt

- ❑ 2x
- ❑ 6 Nm



2.3 Removing and installing digital sound package control unit/amplifier

⇒ "2.3.1 Removing and installing digital sound package control unit/amplifier - Coupé/Sportback", page 27

⇒ "2.3.2 Removing and installing digital sound package control unit/amplifier - Cabriolet", page 29

2.3.1 Removing and installing digital sound package control unit/amplifier - Coupé/Sportback

Special tools and workshop equipment required

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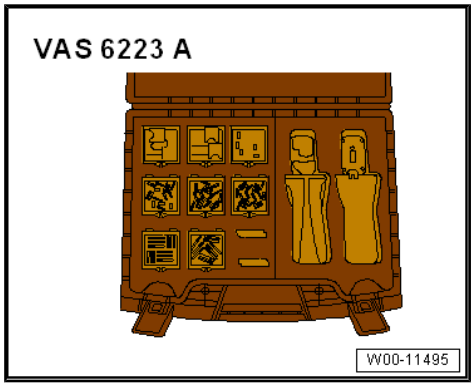
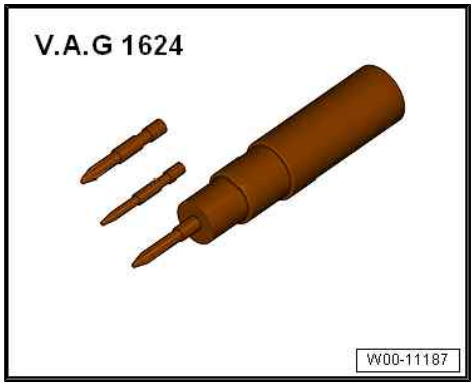
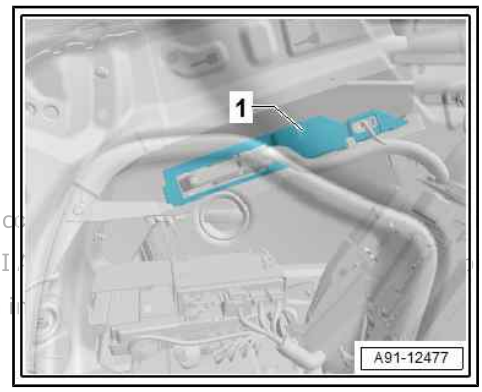
- Protective cap for cable connector - VAS 6223/9-



- Torque screwdriver - V.A.G 1624-



The digital sound package control unit - J525- -1- is located behind the luggage compartment side trim (left-side).



Note

If control unit is to be renewed, select the "Replace control unit" function for appropriate control unit in ⇒ Vehicle diagnostic tester.

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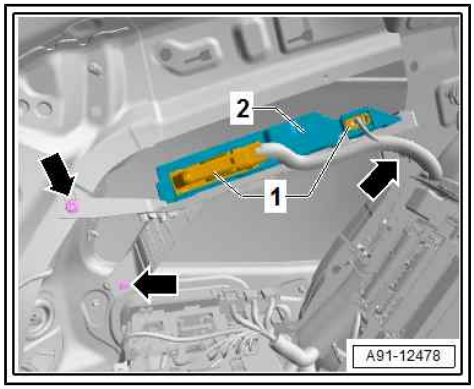
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

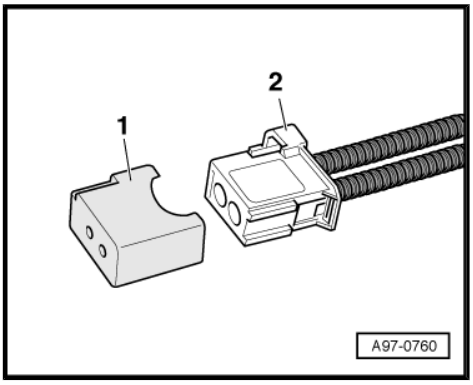
– Open left storage compartment in luggage compartment.

First remove bracket together with digital sound package control unit - J525- .

– Release and unplug connectors -1- at digital sound package control unit - J525- -2-.



– Fit protective cap for cable connector - VAS 6223/9- -1- onto MOST bus connector -2-.



– Unscrew nuts -arrows- from bracket and remove digital sound package control unit - J525- -2- with bracket.

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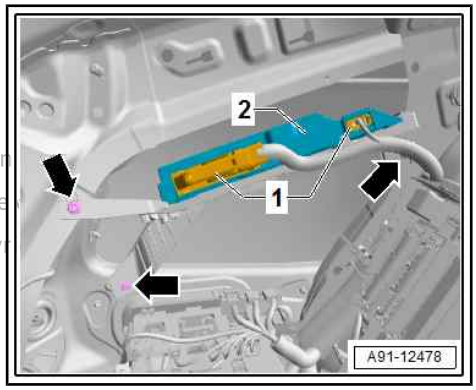
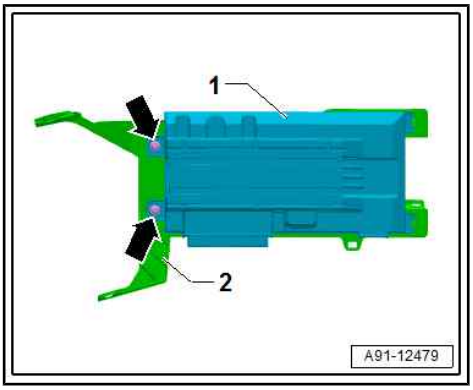


– Unscrew bolts -arrows- and detach digital sound package control unit - J525- -1- from bracket -2-.



Installing

Installation is carried out in reverse order; note the following:

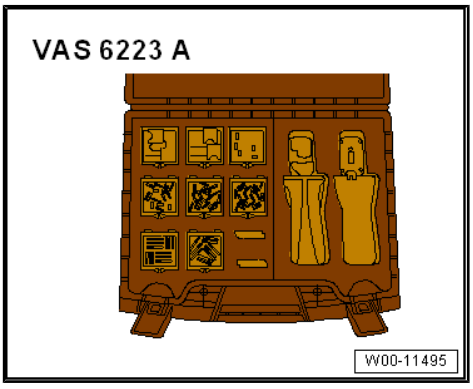
Tightening torques

♦ ⇒ “2.2.4 Overview of fitting locations - sound system, microphones, amplifier, Coupé/Sportback”, page 26

2.3.2 Removing and installing digital sound package control unit/amplifier - Cabriolet

Special tools and workshop equipment required

♦ Protective cap for cable connector - VAS 6223/9-



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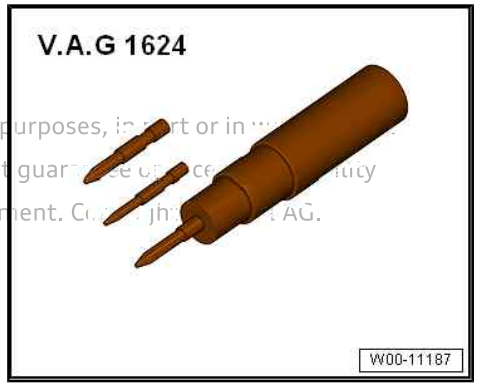
- Torque screwdriver - V.A.G 1624-



The digital sound package control unit - J525- -1- is located behind the luggage compartment side trim (left-side).

Note

If control unit is to be renewed, select the "Replace control unit" function for appropriate control unit in ⇒ Vehicle diagnostic tester.

Removing

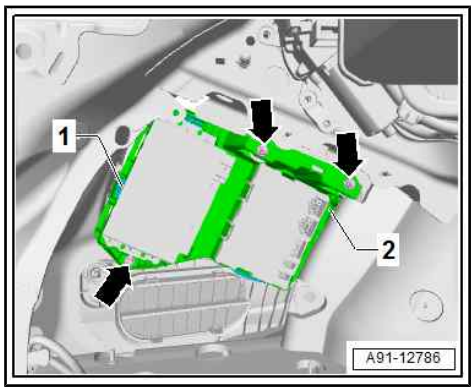
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove luggage compartment side trim (left-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing luggage compartment side trim .

– Remove relay and fuse carrier 2 - SR2- and move it to one side with wiring connected ⇒ Electrical system; Rep. gr. 97 ; Relay carriers, fuse carriers, electronics boxes; Overview of fitting locations - relay carriers, fuse carriers, electronics boxes .

– Remove convenience system central control unit - J393- with bracket and move it to one side with wiring connected ⇒ General body repairs, exterior; Rep. gr. 57 ; Central locking system; Removing and installing convenience system central control unit - J393- .

First remove bracket -2- together with digital sound package control unit - J525- -1-.



– Unscrew nuts -arrows- and swivel out bracket -2- together with control units.

– Release and unplug electrical connectors at digital sound package control unit - J525- -1-.

– Fit protective cap for cable connector - VAS 6223/9- -1- onto MOST bus connector -2-.

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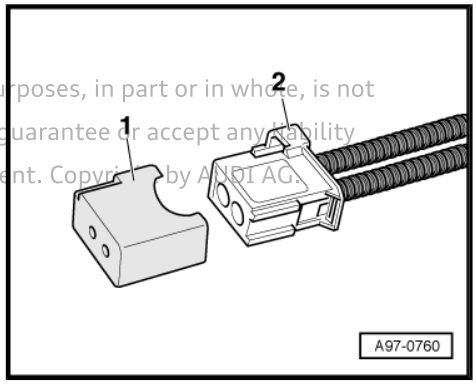
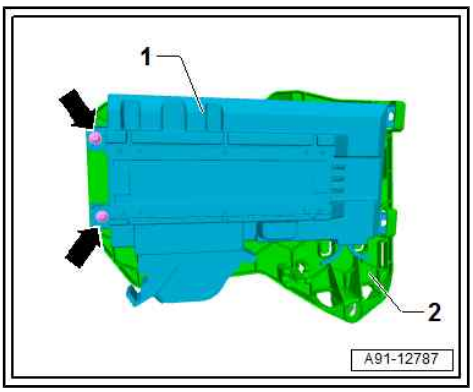


– Unscrew bolts -arrows- and detach digital sound package control unit - J525- -1- from bracket -2-.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

◆ ⇒ “2.2.5 Overview of fitting locations - sound system, microphones, amplifier, Cabriolet”, page 27

2.4 Removing and installing rear treble loudspeakers -R14- / -R16-

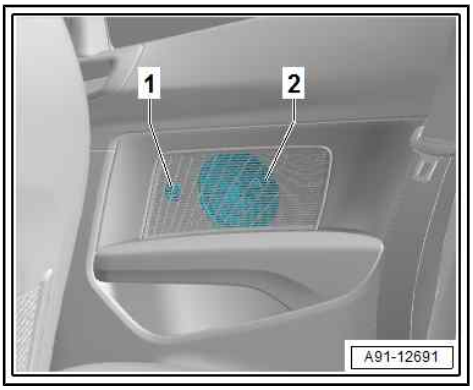
⇒ “2.4.1 Removing and installing rear treble loudspeakers R14 / R16 - Coupé”, page 31

⇒ “2.4.2 Removing and installing rear treble loudspeakers R14 / R16 - Sportback”, page 32

⇒ “2.4.3 Removing and installing rear treble loudspeakers R14 / R16 - Cabriolet”, page 32

2.4.1 Removing and installing rear treble loudspeakers -R14- / -R16- - Coupé

Rear left treble loudspeaker - R14- and rear right treble loudspeaker - R16- -1- are located in rear side trim.



The removal and installation procedure is similar for all components.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

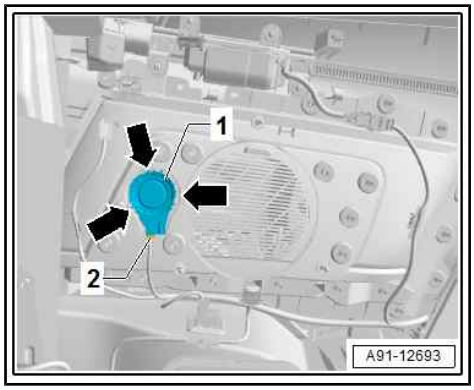
– Remove side trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - side trim .

Rear left treble loudspeaker - R14- is clipped into side trim.

– Release and unplug electrical connector -2- at rear left treble loudspeaker - R14- -1-.
– Press lugs -arrows- until rear left treble loudspeaker - R14- -1- can be detached from side trim.

Installing

Installation is carried out in reverse sequence.



2.4.2 Removing and installing rear treble loudspeakers -R14- / -R16- - Sportback

The rear left treble loudspeaker - R14- and the rear right treble loudspeaker - R16- -1- are located in the rear doors (top).

The removal and installation procedure is similar for all components.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove rear door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Rear door trim; Removing and installing door trim (rear) .

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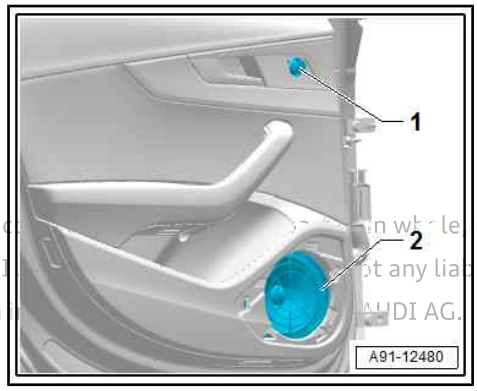
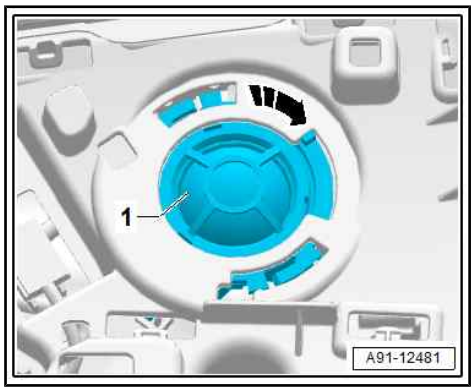


– Release and unplug connector at rear left treble loudspeaker - R14- -1-.
– Turn rear left treble loudspeaker - R14- -1- in direction of -arrow- until it can be detached from door trim.

Installing

Installation is carried out in reverse sequence.



2.4.3 Removing and installing rear treble loudspeakers -R14- / -R16- - Cabriolet

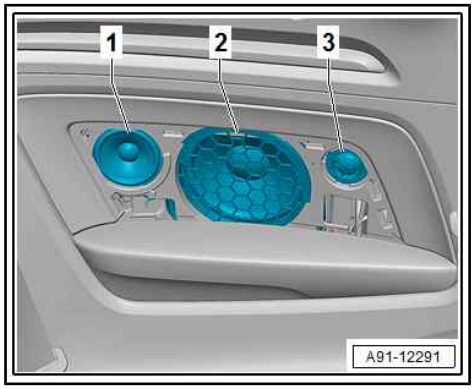
Rear left treble loudspeaker - R14- and rear right treble loudspeaker - R16- -3- are located in rear side trim.

The removal and installation procedure is similar for all components.

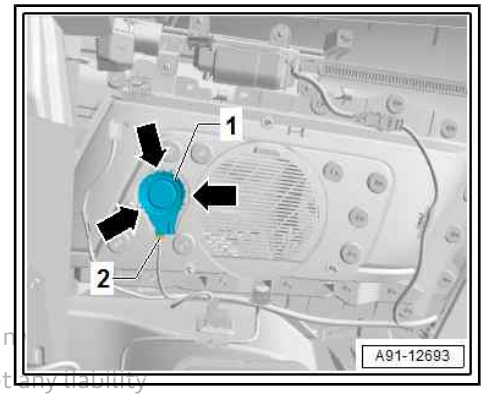
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove side trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - side trim .

Rear left treble loudspeaker - R14- is clipped into cover for side trim.



– Release and unplug electrical connector -2- at rear left treble loudspeaker - R14- -1-.
– Press lugs -arrows- until rear left treble loudspeaker - R14- -1- can be detached from cover for side trim.



Installing

Installation is carried out in reverse sequence.

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2.5 Removing and installing front treble loudspeakers -R20- / -R22-

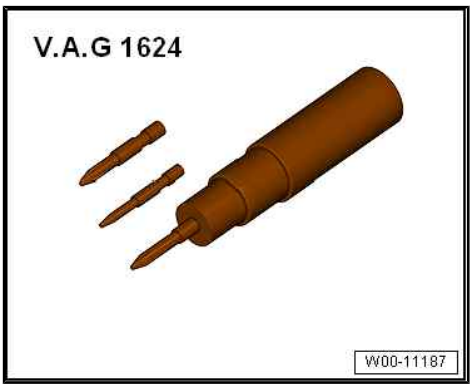
⇒ “2.5.1 Removing and installing front treble loudspeakers R20 / R22 - 8RM/9VD”, page 33

⇒ “2.5.2 Removing and installing front treble loudspeakers R20 / R22 - 9VS”, page 34

2.5.1 Removing and installing front treble loudspeakers -R20- / -R22- - 8RM/9VD

Special tools and workshop equipment required

♦ Torque screwdriver - V.A.G 1624-

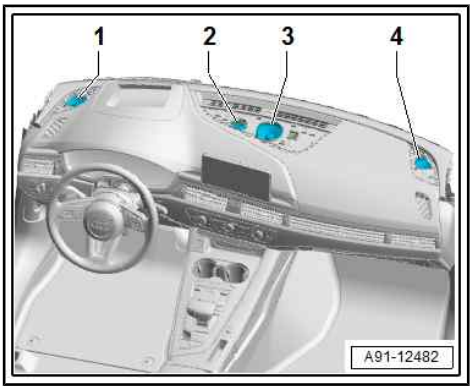


The front left treble loudspeaker - R20- -1- and the front right treble loudspeaker - R22- -4- are located in the dash panel (front).

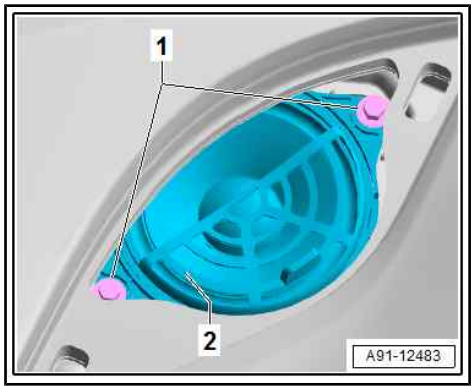
The removal and installation procedure is similar for all components.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove loudspeaker mounting at side with loudspeaker trim ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel; Exploded view - dash panel .



– Remove bolts -1- at front left treble loudspeaker - R20- -2- and lift off front left treble loudspeaker - R20- -2-.
– Release and unplug connector at front left treble loudspeaker - R20- -2-.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “2.2.1 Overview of fitting locations - sound system, loudspeakers, Coupé”, page 20
- ⇒ “2.2.2 Overview of fitting locations - sound system, loudspeakers, Sportback”, page 22
- ⇒ “2.2.3 Overview of fitting locations - sound system, loudspeakers, Cabriolet”, page 24

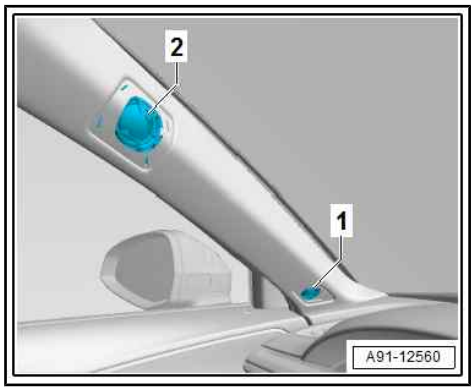
2.5.2 Removing and installing front treble loudspeakers -R20- / -R22- - 9VS

Front left treble loudspeaker - R20- / front right treble loudspeaker - R22- -1- are located in A-pillar trim.

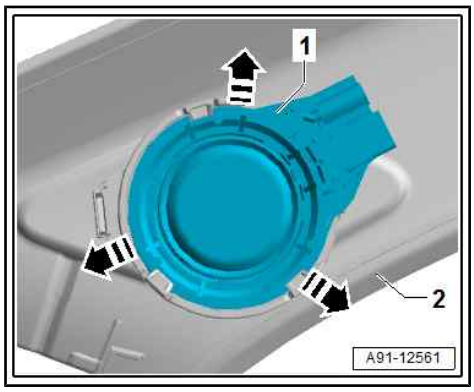
The removal and installation procedure is similar for all components.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove A-pillar trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - A-pillar trim .



– Release and unplug connector at front left treble loudspeaker - R20- -1-.
– Press lugs in direction of -arrows- until front left treble loudspeaker - R20- -1- can be detached from A-pillar trim -2-.



Installing

Installation is carried out in reverse sequence.

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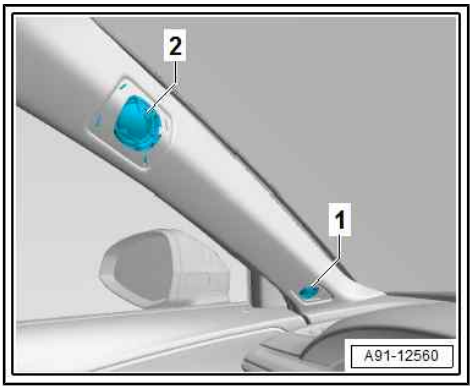
2.6 Removing and installing front treble loudspeakers 2 -R220- / -R221-

Front left treble loudspeaker 2 - R220- / front right treble loudspeaker 2 - R221- -2- are located in A-pillars (top).

The removal and installation procedure is similar for all components.



Removing

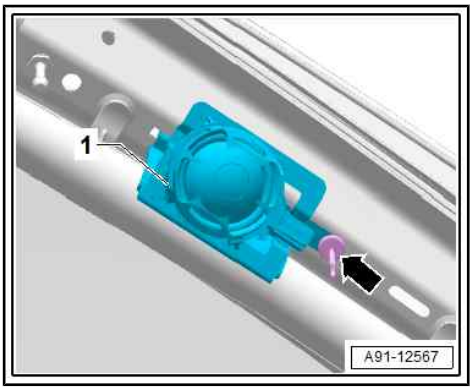
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove A-pillar trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing A-pillar trim .

– Release and unplug connector at front left treble loudspeaker 2 - R220- -1-.

– Drill out rivet -arrow- with a suitable drill.

– Detach front left treble loudspeaker 2 - R220- -1-.



Caution

It is very important to remove all swarf as otherwise corrosion damage will occur.

Immediately repair any paint damage caused by drilling out the rivet.

Installing

Installation is carried out in reverse order; note the following:

Use special pop rivets. Note part number ⇒ Electronic parts catalogue “ETKA” .

2.7 Removing and installing front mid-range loudspeakers

Special tools and workshop equipment required

♦ Torque screwdriver - V.A.G 1624-

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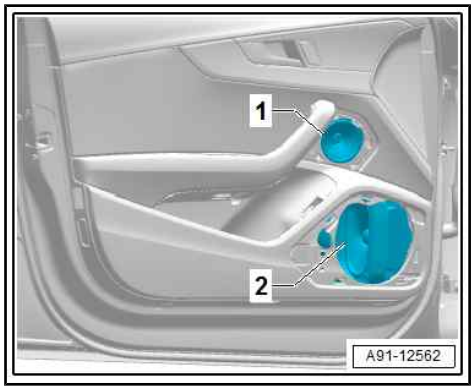
The front left mid-range loudspeaker - R103- and the front right mid-range loudspeaker - R104- -1- are located in the front doors (centre).

The removal and installation procedure is similar for all components.



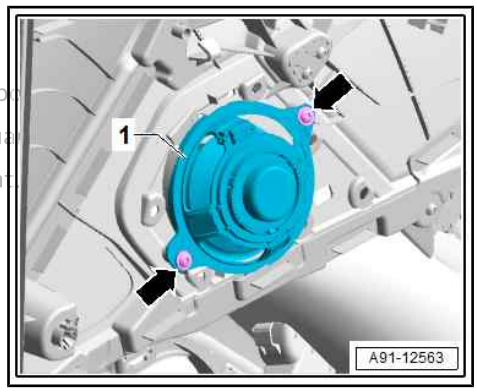
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove door trim (front) ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Exploded view - door trim (front) .

– Release and unplug connector at front left mid-range loudspeaker - R103- -1-.

– Remove bolts -arrows- at front left mid-range loudspeaker - R103- -1-.



– Detach front left mid-range loudspeaker - R103- -1- from door.

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Installing

Installation is carried out in reverse order; note the following:

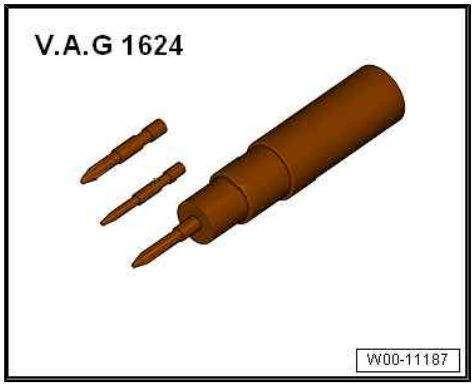
Tightening torques

- ⇒ “2.2.1 Overview of fitting locations - sound system, loudspeakers, Coupé”, page 20
- ⇒ “2.2.2 Overview of fitting locations - sound system, loudspeakers, Sportback”, page 22
- ⇒ “2.2.3 Overview of fitting locations - sound system, loudspeakers, Cabriolet”, page 24

2.8 Removing and installing front mid-range loudspeakers 2 -R276- / -R277-

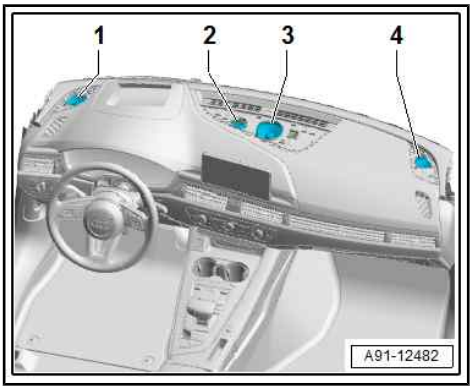
Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-



Front left mid-range loudspeaker 2 - R276- -1- and front right mid-range loudspeaker 2 - R277- -4- are located in dash panel (front).

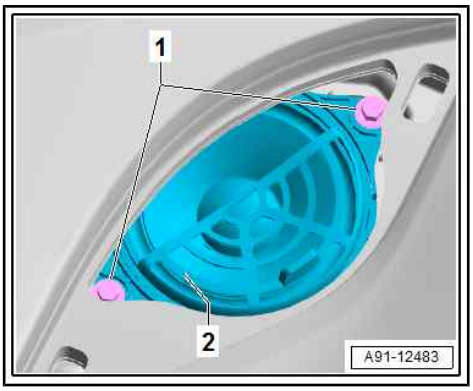
The removal and installation procedure is similar for all components.



Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove loudspeaker mounting at side with loudspeaker trim ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel; Exploded view - dash panel .



– Remove bolts -1- at front left mid-range loudspeaker 2 - R276- -2- and lift out front left mid-range loudspeaker 2 - R276- -2-.

– Release and unplug connector at front left mid-range loudspeaker 2 - R276- -2-.

Installing

Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “2.2.1 Overview of fitting locations - sound system, loudspeakers, Coupé”, page 20
- ⇒ “2.2.2 Overview of fitting locations - sound system, loudspeakers, Sportback”, page 22
- ⇒ “2.2.3 Overview of fitting locations - sound system, loudspeakers, Cabriolet”, page 24

2.9 Removing and installing rear bass loudspeakers -R15- / -R17-

⇒ “2.9.1 Removing and installing rear bass loudspeakers R15 / R17 - Coupé”, page 37

⇒ “2.9.2 Removing and installing rear bass loudspeakers R15 / R17 - Sportback”, page 38

⇒ “2.9.3 Removing and installing rear bass loudspeakers R15 / R17 - Cabriolet”, page 38

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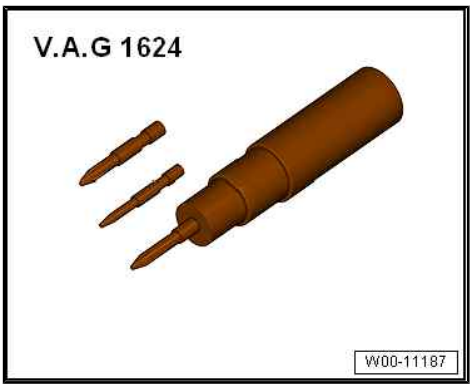
2.9.1 Removing and installing rear bass loudspeakers -R15- / -R17- - Coupé

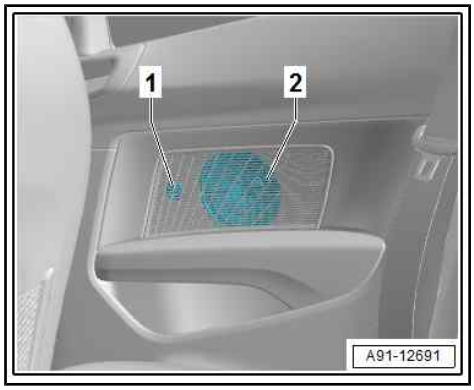
Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-



Rear left bass loudspeaker - R15- / rear right bass loudspeaker - R17- -2- are located behind rear side trim.

The removal and installation procedure is similar for all components.



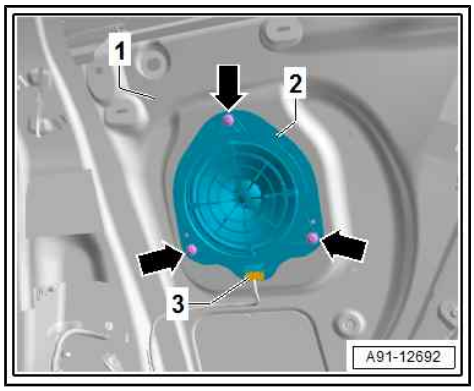
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove side trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - side trim .

– Release and unplug electrical connector -3- at rear left bass loudspeaker - R15- -2-.

– Unscrew bolts -arrows- and detach rear left bass loudspeaker - R15- -2- from body -1-.



Installing

Installation is carried out in reverse order; note the following:

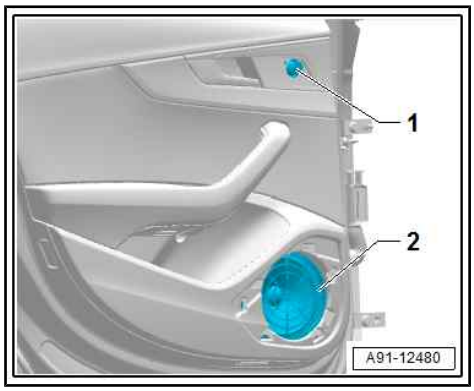
Tightening torques

◆ ⇒ “2.2.1 Overview of fitting locations - sound system, loudspeakers, Coupé”, page 20

2.9.2 Removing and installing rear bass loudspeakers -R15- / -R17- - Sportback

The rear left bass loudspeaker - R15- and the rear right bass loudspeaker - R17- -2- are located in the rear doors (bottom).

The removal and installation procedure is similar for all components.



Removing

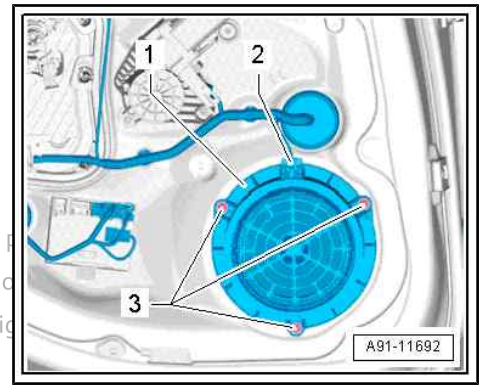
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove rear door trim ⇒ General body repairs, interior; Rep. gr. 70 ; Rear door trim; Removing and installing door trim (rear) .

– Release and unplug electrical connector -2- at rear left bass loudspeaker - R15- -1-.

– Remove bolts -3-.

– Detach rear left bass loudspeaker - R15- -1-.



Installing

Installation is carried out in reverse order; note the following:

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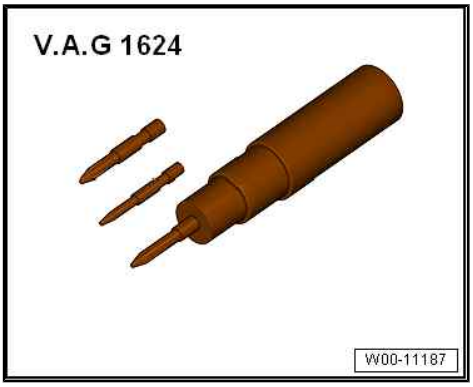
Tightening torques

◆ ⇒ “2.2.2 Overview of fitting locations - sound system, loudspeakers, Sportback”, page 22

2.9.3 Removing and installing rear bass loudspeakers -R15- / -R17- - Cabriolet

Special tools and workshop equipment required

♦ Torque screwdriver - V.A.G 1624-



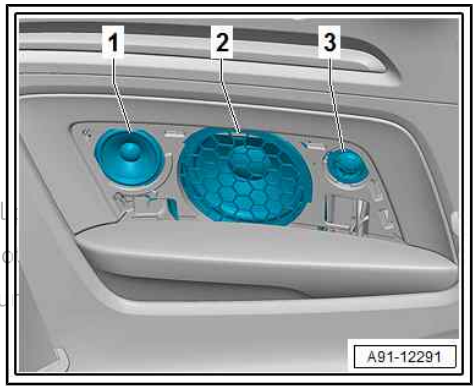
Rear left bass loudspeaker - R15- / rear right bass loudspeaker - R17- -2- are located behind rear side trim.

The removal and installation procedure is similar for all components.

Removing

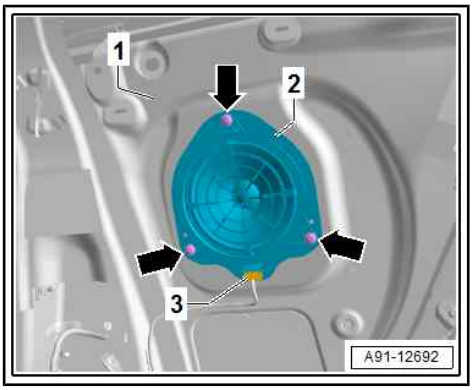
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove side trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - side trim .



– Unscrew bolts -arrows- and detach rear left bass loudspeaker - R15- -2- from body -1-.

– Release and unplug electrical connector -3- at rear left bass loudspeaker - R15- -2-.



Installing

Installation is carried out in reverse order; note the following:

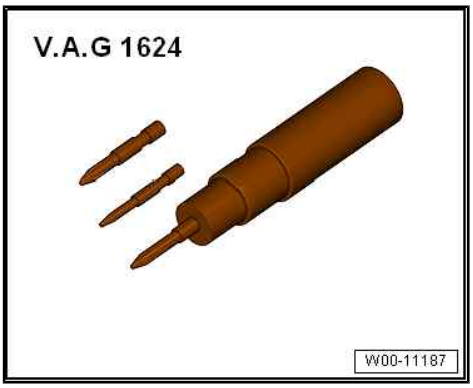
Tightening torques

♦ ⇒ “2.2.3 Overview of fitting locations - sound system, loudspeakers, Cabriolet”, page 24

2.10 Removing and installing front bass loudspeakers -R21- / -R23-

Special tools and workshop equipment required

♦ Torque screwdriver - V.A.G 1624-



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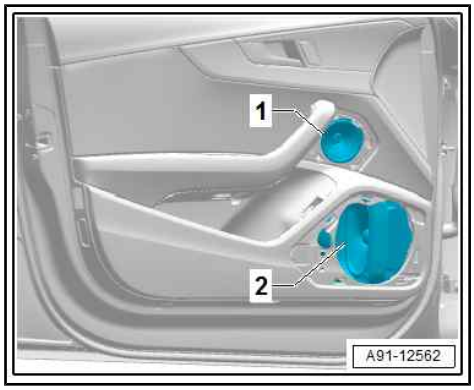
The front left bass loudspeaker - R21- and the front right bass loudspeaker - R23- -2- are located in the front doors (bottom).

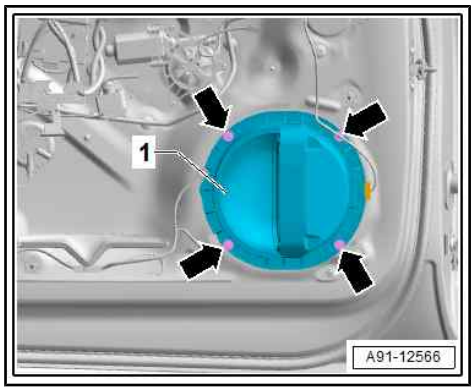
The removal and installation procedure is similar for all components.



Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove door trim (front) ⇒ General body repairs, interior; Rep. gr. 70 ; Door trim (front); Exploded view - door trim (front) .



– Release and unplug connector at front left bass loudspeaker - R21- -1-.

– Remove bolts -arrows- at front left bass loudspeaker - R21- -1-.

– Detach front left bass loudspeaker - R21- -1- from door.

Installing

Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “2.2.1 Overview of fitting locations - sound system, loudspeakers, Coupé”, page 20
- ⇒ “2.2.2 Overview of fitting locations - sound system, loudspeakers, Sportback”, page 22
- ⇒ “2.2.3 Overview of fitting locations - sound system, loudspeakers, Cabriolet”, page 24

2.11 Removing and installing subwoofer - R211-

⇒ “2.11.1 Removing and installing subwoofer R211 - Coupé”, page 40

⇒ “2.11.2 Removing and installing subwoofer R211 - Sportback”, page 41

⇒ “2.11.3 Removing and installing subwoofer R211 - Cabriolet”, page 42

⇒ “2.11.4 Removing and installing subwoofer R211 - Audi g-tron”, page 43

⇒ “2.11.5 Removing and installing subwoofer R211 - Sportback (VH0 + 0K4)”, page 43

2.11.1 Removing and installing subwoofer - R211- - Coupé

Special tools and workshop equipment required

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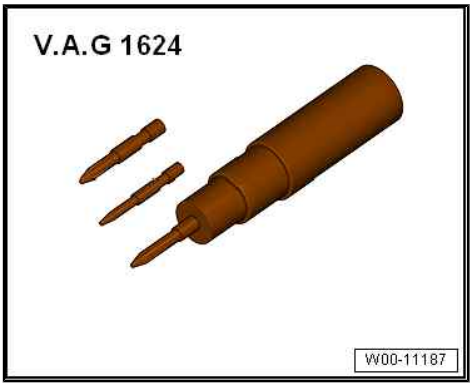
- Torque screwdriver - V.A.G 1624-



The subwoofer - R211- is located in the rear shelf.

Removing

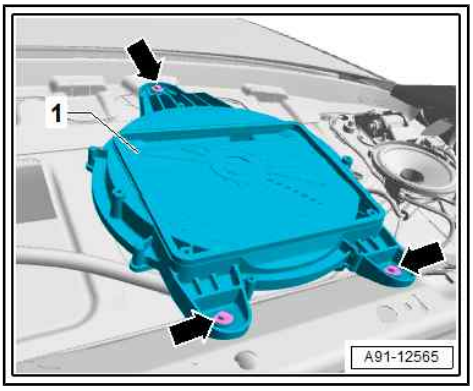
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove rear shelf ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim; Removing and installing rear shelf .

– Release and unplug connector at subwoofer - R211- -1-.

– Remove bolts -arrows- on subwoofer - R211- -1-.

– Lift out subwoofer - R211- -1-.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “2.2.1 Overview of fitting locations - sound system, loudspeakers, Coupé”, page 20

2.11.2 Removing and installing subwoofer - R211- - Sportback

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-

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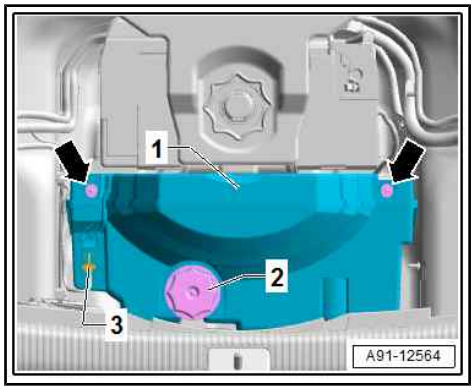
The subwoofer - R211- is located in the spare wheel well.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Take out luggage compartment floor.

– Release and unplug connector -3- at subwoofer - R211- -1-.
– Remove bolt -2- on subwoofer - R211- -1-.
– Remove nuts -arrows- on subwoofer - R211- -1-.
– Lift subwoofer - R211- -1- upwards out of spare wheel well.



Installing

Installation is carried out in reverse order; note the following:

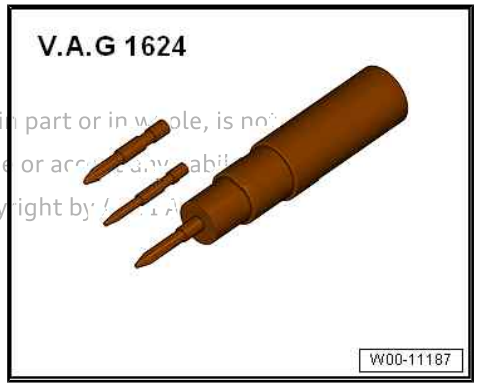
Tightening torques

◆ ⇒ “2.2.2 Overview of fitting locations - sound system, loud-speakers, Sportback”, page 22

2.11.3 Removing and installing subwoofer - R211- - Cabriolet

Special tools and workshop equipment required

◆ Torque screwdriver - V.A.G 1624-



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Subwoofer - R211- is only installed on vehicles with Audi sound system (9VD).

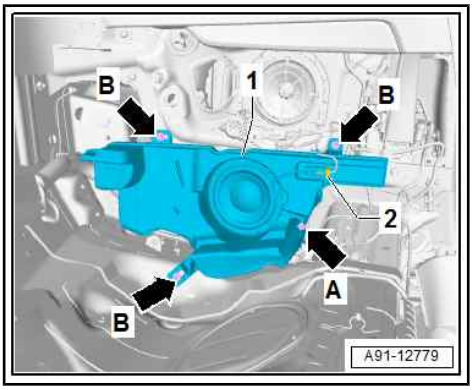
On vehicles with Bang & Olufsen sound system (9VS), rear left subwoofer - R239- and rear right subwoofer - R240- are installed ⇒ “2.12 Removing and installing rear subwoofers R239 / R240 ”, page 44 .

Subwoofer - R211- is located behind side trim (left-side).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove side trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - side trim .
– Remove rear seat backrest frame ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing rear seat backrest .

– Release and unplug connector -2- at subwoofer - R211- -1-.
– Remove bolt -arrow A- on subwoofer - R211- -1-.
– Remove nuts -arrows B- on subwoofer - R211- -1-.
– Take out subwoofer - R211- -1-.



Installing

Installation is carried out in reverse order; note the following:

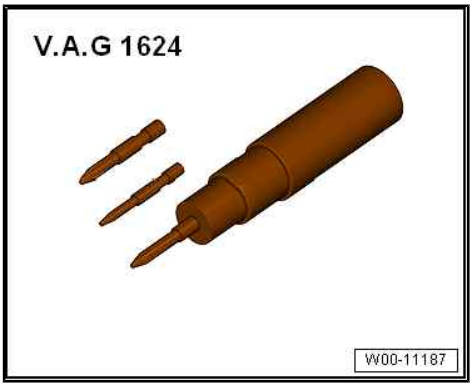
Tightening torques

◆ ⇒ “2.2.3 Overview of fitting locations - sound system, loudspeakers, Cabriolet”, page 24

2.11.4 Removing and installing subwoofer - R211- - Audi g-tron

Special tools and workshop equipment required

◆ Torque screwdriver - V.A.G 1624-



Subwoofer - R211- is located behind luggage compartment side trim (right-side).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Open and detach service cover for luggage compartment side trim (right-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Exploded view - luggage compartment side trim .
– Release and unplug connector at subwoofer - R211- .
– Remove nuts -arrows- on subwoofer - R211- -1-.
– Take out subwoofer - R211- -1-.

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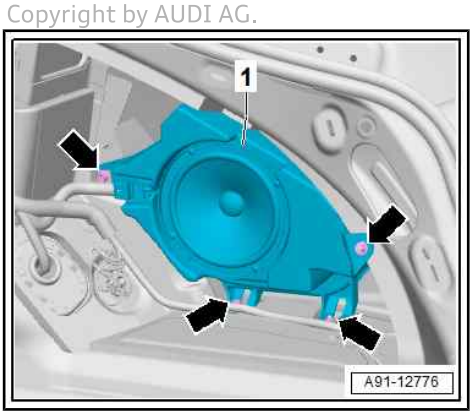


Installing

Installation is carried out in reverse order; note the following:

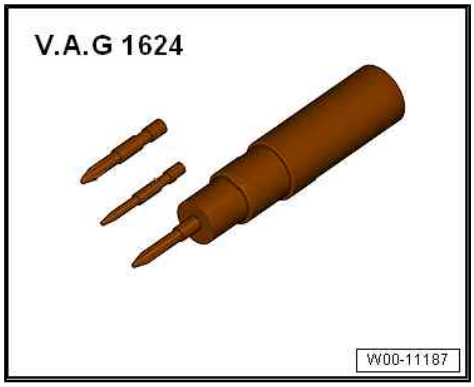
Tightening torques

◆ ⇒ “2.2.2 Overview of fitting locations - sound system, loudspeakers, Sportback”, page 22

2.11.5 Removing and installing subwoofer - R211- - Sportback (VH0 + 0K4)

Special tools and workshop equipment required

♦ Torque screwdriver - V.A.G 1624-



The subwoofer - R211- is located in the spare wheel well.

Removing

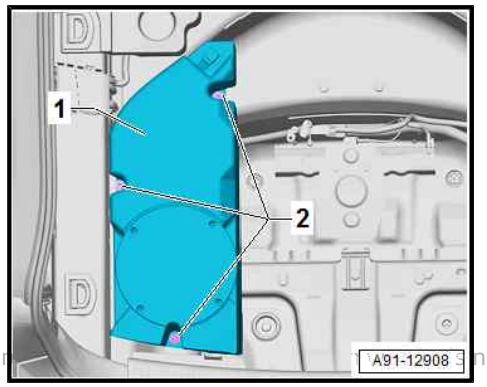
– Switch off ignition and all electrical equipment, and remove ignition key.

– Take out luggage compartment floor.

– Release and unplug connector at subwoofer - R211- -1-.

– Remove nuts -2- on subwoofer - R211- -1-.

– Lift subwoofer - R211- -1- upwards out of spare wheel well.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

Components	Tightening torque
Subwoofer - R211- in luggage compartment recess	3 Nm

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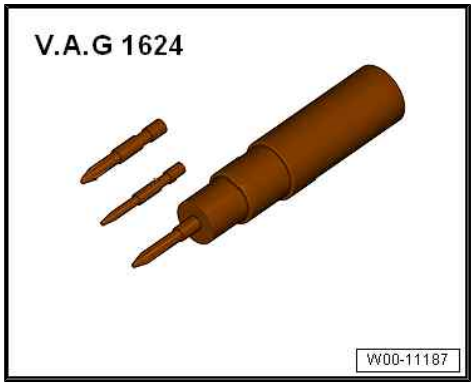
2.12 Removing and installing rear subwoofers -R239- / -R240-

Special tools and workshop equipment required

♦ Torque screwdriver - V.A.G 1624-



Rear left subwoofer - R239- and rear right subwoofer - R240- are only fitted on Cabriolet vehicles with Bang & Olufsen sound system (9VS).

Rear left subwoofer - R239- and rear right subwoofer - R240- are located behind the side trim on each side.

The removal and installation procedure is similar for all components.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove side trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - side trim .

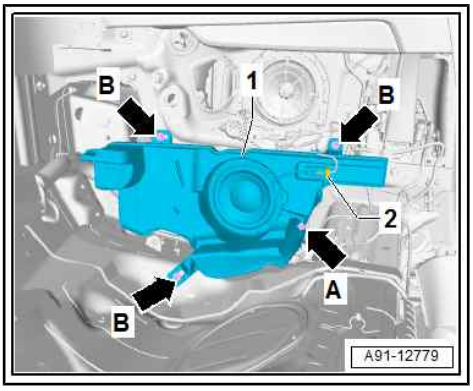
– Remove rear seat backrest frame ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing rear seat backrest .

– Release and unplug electrical connector -2- at rear left sub-woofer - R239- -1-.

– Remove bolt -arrow A- on rear left subwoofer - R239- -1-.

– Remove nuts -arrows B- on rear left subwoofer - R239- -1-.

– Remove rear left subwoofer - R239- -1-.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

♦ ⇒ “2.2.3 Overview of fitting locations - sound system, loud-speakers, Cabriolet”, page 24

2.13 Removing and installing effect loud-speakers

⇒ “2.13.1 Removing and installing effect loudspeakers R209 / R210 - Coupé”, page 45

⇒ “2.13.2 Removing and installing effect loudspeakers R209 / R210 - Sportback”, page 46

⇒ “2.13.3 Removing and installing effect loudspeakers R209 / R210 - Cabriolet”, page 47

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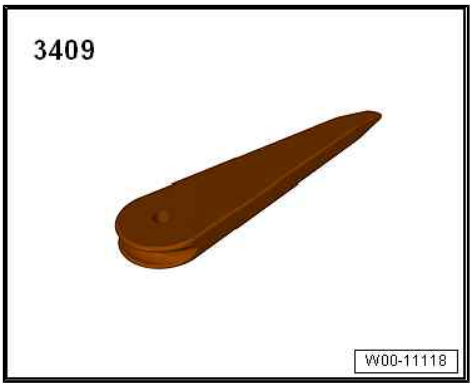
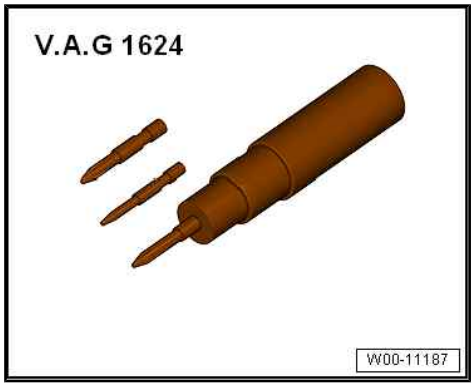
2.13.1 Removing and installing effect loud-speakers -R209- / -R210- - Coupé

Special tools and workshop equipment required

♦ Removal wedge - 3409-



- Torque screwdriver - V.A.G 1624-



Left effect loudspeaker - R209- and right effect loudspeaker - R210- are located in rear shelf.

The removal and installation procedure is similar for all components.

Removing

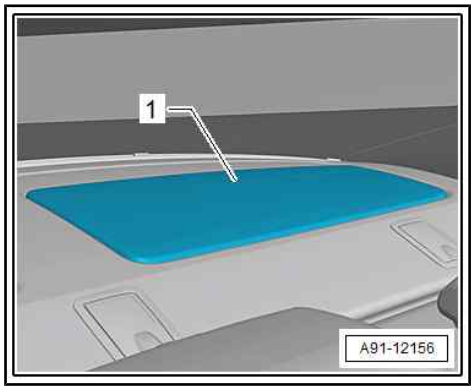
– Switch off ignition and all electrical equipment, and remove ignition key.

– Using removal wedge - 3409- , unclip loudspeaker trim -1- from rear shelf.

– Lift loudspeaker trim -1- until connector on left effect loudspeaker - R209- becomes accessible.

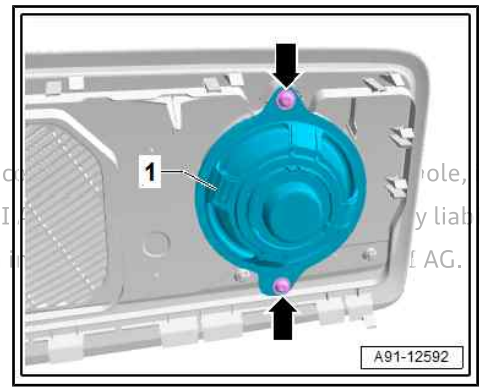
– Release and unplug connector at left effect loudspeaker - R209- .

– Detach loudspeaker trim -1- with left effect loudspeaker - R209- .



– Unscrew bolts -arrows- at left effect loudspeaker - R209- -1-.

– Detach left effect loudspeaker - R209- -1- from loudspeaker trim.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “2.2.1 Overview of fitting locations - sound system, loudspeakers, Coupé”, page 20

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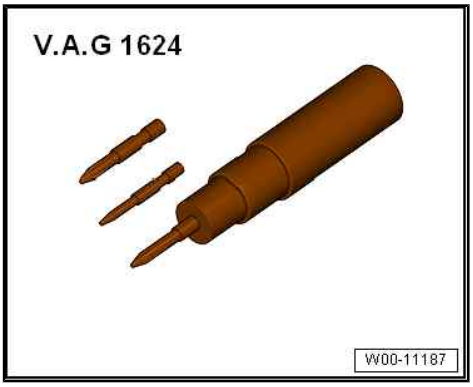
2.13.2 Removing and installing effect loudspeakers -R209- / -R210- - Sportback

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-



The left effect loudspeaker - R209- / right effect loudspeaker - R210- are located behind the D-pillar trim panels.

The removal and installation procedure is similar for all components.

Removing

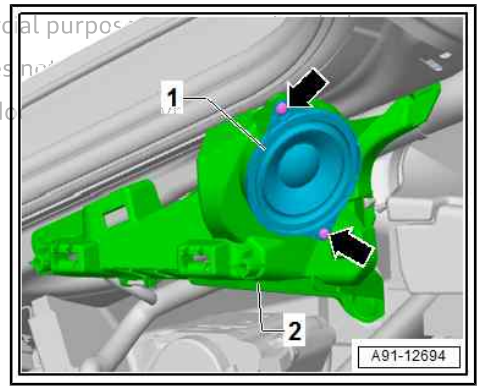
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove D-pillar trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - D-pillar trim .

– Release and unplug connector at left effect loudspeaker - R209- -1-.

– Unscrew bolts -arrows- at left effect loudspeaker - R209- -1-.

– Detach left effect loudspeaker - R209- -1- from D-pillar.



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Installing

Installation is carried out in reverse order; note the following:

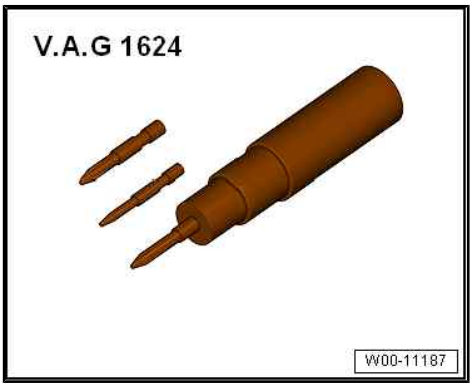
Tightening torques

- ⇒ “2.2.2 Overview of fitting locations - sound system, loudspeakers, Sportback”, page 22

2.13.3 Removing and installing effect loudspeakers -R209- / -R210- - Cabriolet

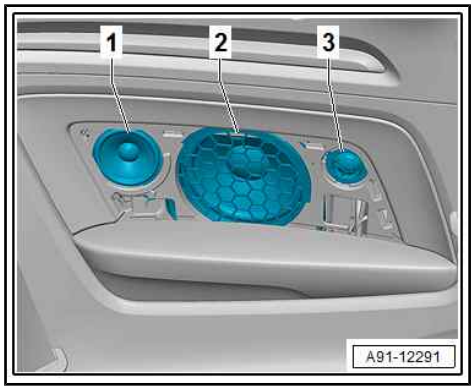
Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-



Left effect loudspeaker - R209- and right effect loudspeaker - R210- -1- are located behind rear side trim panels.

The removal and installation procedure is similar for all components.



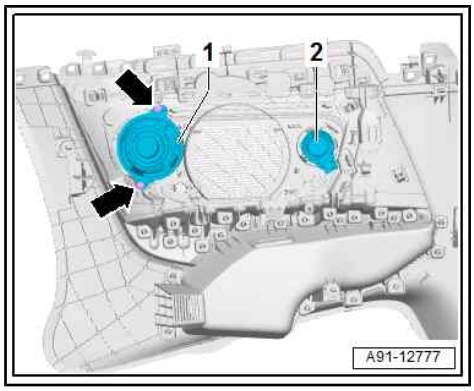
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove side trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - side trim .

– Release and unplug connector at left effect loudspeaker - R209- -1-.

– Unscrew bolts -arrows- and detach left effect loudspeaker - R209- -1- from cover for side trim.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

◆ ⇒ “2.2.3 Overview of fitting locations - sound system, loudspeakers, Cabriolet”, page 24

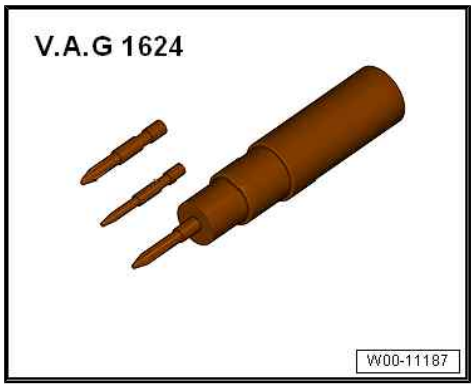
2.14 Removing and installing centre loudspeaker

⇒ “2.14.1 Removing and installing centre loudspeaker R208 - 9VD/9VS”, page 48

⇒ “2.14.2 Removing and installing centre loudspeaker 2 R219 - 9VS”, page 49

2.14.1 Removing and installing centre loudspeaker - R208- - 9VD/9VS

Torque screwdriver - V.A.G 1624-



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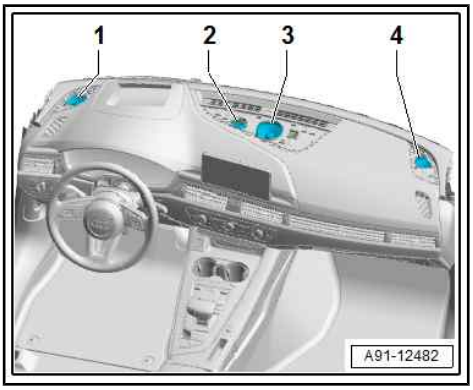
The centre loudspeaker - R208- -3- is located in the dash panel (front centre).



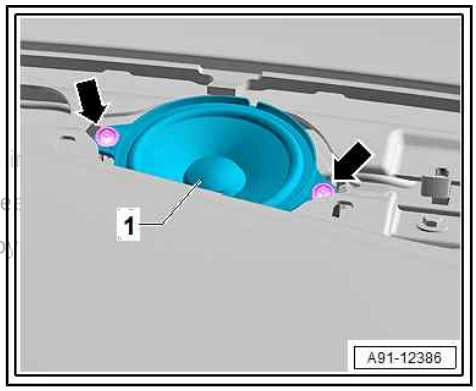
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove centre defroster vent with loudspeaker trim ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel; Removing and installing centre defroster vent .

– Remove bolts -arrows- on centre loudspeaker - R208- -1- and remove centre loudspeaker - R208- -1- upwards.

– Release and unplug connector at centre loudspeaker - R208- -1-.



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Installing

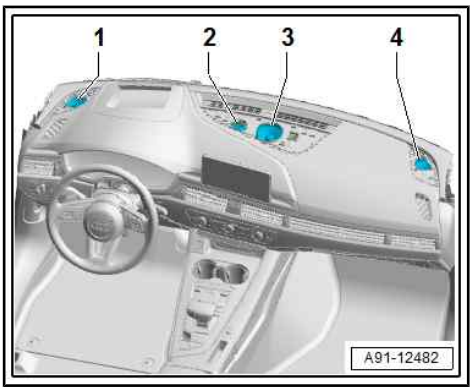
Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “2.2.1 Overview of fitting locations - sound system, loudspeakers, Coupé”, page 20
- ⇒ “2.2.2 Overview of fitting locations - sound system, loudspeakers, Sportback”, page 22
- ⇒ “2.2.3 Overview of fitting locations - sound system, loudspeakers, Cabriolet”, page 24

2.14.2 Removing and installing centre loudspeaker 2 - R219- - 9VS

The centre loudspeaker 2 - R219- -2- is located in the dash panel (front centre).



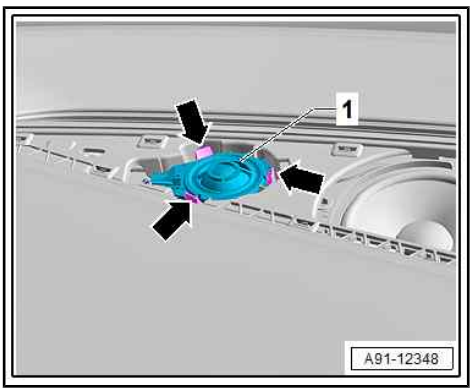
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove centre defroster vent with loudspeaker trim ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel; Removing and installing centre defroster vent .

– Press lugs -arrows- on centre loudspeaker 2 - R219- -1- and remove centre loudspeaker 2 - R219- -1- upwards.

– Release and unplug connector at centre loudspeaker 2 - R219- -1-.



Installing

Installation is carried out in reverse sequence.

3 Aerial systems

⇒ “3.1 Layout - aerial systems”, page 50

⇒ “3.2 Overview of fitting locations - aerial systems”, page 55

⇒ “3.3 Removing and installing aerial amplifiers”, page 72

⇒ “3.4 Removing and installing window aerial suppression filter C18 ”, page 86

⇒ “3.5 Removing and installing GPS aerial”, page 89

⇒ “3.6 Removing and installing GSM aerial”, page 90

⇒ “3.7 Removing and installing satellite aerial R170 ”, page 91

⇒ “3.8 Removing and installing traffic data aerial”, page 92

⇒ “3.9 Removing and installing dedicated short-range communication aerial”, page 93

⇒ “3.10 Removing and installing emergency call module aerial R263 ”, page 94

⇒ “3.11 Removing and installing emergency call module aerial 2 R322 ”, page 98

⇒ “3.12 Removing and installing roof aerial”, page 100

⇒ “3.13 Removing and installing bumper aerials”, page 101

⇒ “3.14 Removing and installing LTE aerials”, page 102

⇒ “3.15 Removing and installing near field communication control unit J1169 ”, page 107

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3.1 Layout - aerial systems

⇒ “3.1.1 Layout - aerial systems, Coupé/Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 50

⇒ “3.1.2 Layout - aerial systems, Coupé/Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 51

⇒ “3.1.3 Layout - aerial systems, Coupé/Sportback, Russia only”, page 52

⇒ “3.1.4 Layout - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 53

⇒ “3.1.5 Layout - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 54

3.1.1 Layout - aerial systems, Coupé/Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)

The aerial systems consist of the roof aerial - R216- , the window aerials and the bumper aerials.

Roof aerial - R216-

- GPS aerial - R50-
- Telephone aerial - R65- , 9ZE and EL0
- Satellite aerial - R170- , QV8

- Auxiliary heater aerial - R182- , ECE and 9M9
- LTE aerial 1 - R297- , EL3

Window aerials

- Aerial - R11- (AM/FM1)/ TV aerial 1 - R55- (TV1) to aerial amplifier - R24- at C-pillar/rear lid (top right)
- TV aerial 2 - R56- (TV2) to aerial amplifier 1 for TV - R82- at C-pillar/rear lid (bottom right)
- Radio aerial 2 - R93- (FM2)/ digital radio aerial - R183- (DAB) to aerial amplifier 2 - R111- (DAB) at C-pillar/rear lid (top left)
- TV aerial 3 - R57- (TV3) to aerial amplifier 2 for TV - R83- at C-pillar/rear lid (bottom left)

Bumper aerials

- Telephone aerial - R65- underneath rear bumper cover (right-side), 9ZE and EL3
- LTE aerial 2 - R306- under rear bumper cover (left-side), EL3

Other aerials

- Traffic data aerial - R173- on windscreen (top), Japan only
- Dedicated short-range communication aerial - R269- in dash panel (front centre), Japan only
- Emergency call module aerial - R263- in dash panel (front centre), IW3/IW5 and 4GF/4GS
- Emergency call module aerial - R263- under rear shelf, IW3/IW5 and 4GR/4GY, Coupé
- Emergency call module aerial - R263- at belt guide (rear left), IW3/IW5 and 4GR/4GY, Sportback
- Emergency call module aerial 2 - R322- in dash panel (front centre), IW3/IW5 and 4GR/4GY

Repairing aerial wiring ⇒ Electrical system; Rep. gr. 97 ; Repairing aerial wires .

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3.1.2 Layout - aerial systems, Coupé/Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)

The aerial systems consist of the roof aerial - R216- , the window aerials and the bumper aerials.

Roof aerial - R216-

- GPS aerial - R50-
- Telephone aerial - R65- , 9ZE and EL0 and IW0
- Satellite aerial - R170- , QV8
- Auxiliary heater aerial - R182- , ECE and 9M9
- LTE aerial 1 - R297- , EL3 and IW0
- Emergency call module aerial 2 - R322- , IW3/IW5

Window aerials

- Aerial - R11- (AM/FM1)/ TV aerial 1 - R55- (TV1) to aerial amplifier - R24- at C-pillar/rear lid (top right)
- TV aerial 2 - R56- (TV2) to aerial amplifier 1 for TV - R82- at C-pillar/rear lid (bottom right)

- Radio aerial 2 - R93- (FM2)/ digital radio aerial - R183- (DAB) to aerial amplifier 2 - R111- (DAB) at C-pillar/rear lid (top left)
- TV aerial 3 - R57- (TV3) to aerial amplifier 2 for TV - R83- at C-pillar/rear lid (bottom left)

Bumper aerials

- Telephone aerial - R65- underneath rear bumper cover (right-side), 9ZE and EL3/IW3/IW5
- LTE aerial 1 - R297- underneath rear bumper cover (left-side), EL3 and IW3/IW5
- LTE aerial 2 - R306- underneath rear bumper cover (left-side), EL3 and IW0

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Other aerials

- Traffic data aerial - R173- on windscreen (top), Japan only
- Dedicated short-range communication aerial - R269- in dash panel (front centre), Japan only
- Emergency call module aerial - R263- under rear shelf, IW3/ IW5, Coupé
- Emergency call module aerial - R263- at belt guide (rear left), IW3/IW5, Sportback
- LTE aerial 2 - R306- underneath dash panel (front centre), EL3 and IW3/IW5

Repairing aerial wiring ⇒ Electrical system; Rep. gr. 97 ; Repairing aerial wires .

3.1.3 Layout - aerial systems, Coupé/Sportback, Russia only

The aerial systems consist of the roof aerial - R216- , the window aerials and the bumper aerials.

Roof aerial - R216-

- GPS aerial - R50-
- Auxiliary heater aerial - R182- , 9M9
- Emergency call module aerial - R263- , IW1

Window aerials

- Aerial - R11- (AM/FM1)/ TV aerial 1 - R55- (TV1) to aerial amplifier - R24- at C-pillar/rear lid (top right)
- TV aerial 2 - R56- (TV2) to aerial amplifier 1 for TV - R82- at C-pillar/rear lid (bottom right)
- Radio aerial 2 - R93- (FM2)/ digital radio aerial - R183- (DAB) to aerial amplifier 2 - R111- (DAB) at C-pillar/rear lid (top left)
- TV aerial 3 - R57- (TV3) to aerial amplifier 2 for TV - R83- at C-pillar/rear lid (bottom left)

Bumper aerials

- Telephone aerial - R65- , under rear bumper cover (right-side), 9ZE
- LTE aerial 1 - R297- under rear bumper cover (left-side), EL3

Other aerials

- LTE aerial 2 - R306- under rear shelf, EL3, Coupé
- LTE aerial 2 - R306- on belt guide (rear left), EL3, Sportback

Repairing aerial wiring ⇒ Electrical system; Rep. gr. 97 ; Repairing aerial wires .

3.1.4 Layout - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)

The aerial systems consist of the radio and TV aerials, the bumper aerials and other aerials.

Radio and TV aerials

- Aerial - R11- (AM/FM1) to aerial amplifier - R24- at convertible roof compartment lid (right-side)
- Radio aerial - R248- (AM2) to aerial amplifier 3 - R112- at main mounting for convertible roof (right-side)
- TV aerial 1 - R55- (TV1) to aerial amplifier 1 for TV - R82- on ledge (right-side)
- TV aerial 2 - R56- (TV2) to aerial amplifier 2 for TV - R83- on ledge (left-side)
- Radio aerial 2 - R93- (FM2)/ digital radio aerial - R183- (DAB) to aerial amplifier 2 - R111- (DAB) on convertible roof compartment lid (left-side)
- TV aerial 3 - R57- (TV3) to aerial amplifier 3 for TV - R84- on convertible roof compartment lid (centre)

Bumper aerials

- Telephone aerial - R65- underneath rear bumper cover (right-side), 9ZE and EL3
- LTE aerial 2 - R306- under rear bumper cover (left-side), EL3

Other aerials

- GPS aerial - R50- on convertible roof compartment lid (left-side)
- Telephone aerial - R65- on convertible roof compartment lid (centre), 9ZE and EL0
- Satellite aerial - R170- on convertible roof compartment lid, QV8
- Traffic data aerial - R173- on windscreen (top), Japan only
- Dedicated short-range communication aerial - R269- in dash panel (front centre), Japan only
- Emergency call module aerial - R263- under dash panel (front centre), IW3/IW5
- LTE aerial 1 - R297- on convertible roof compartment lid (centre), EL3
- Emergency call module aerial 2 - R322- under rear seat bench (left-side) in bracket for data bus diagnostic interface - J533- , IW3/IW5

Repairing aerial wiring ⇒ Electrical system; Rep. gr. 97 ; Repairing aerial wires .

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3.1.5 Layout - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)

The aerial systems consist of the radio and TV aerials, the bumper aerials and other aerials.

Radio and TV aerials

- Aerial - R11- (AM/FM1) to aerial amplifier - R24- at convertible roof compartment lid (right-side)
- Radio aerial - R248- (AM2) to aerial amplifier 3 - R112- at main mounting for convertible roof (right-side)
- TV aerial 1 - R55- (TV1) to aerial amplifier 1 for TV - R82- on ledge (right-side)
- TV aerial 2 - R56- (TV2) to aerial amplifier 2 for TV - R83- on ledge (left-side)
- Radio aerial 2 - R93- (FM2)/ digital radio aerial - R183- (DAB) to aerial amplifier 2 - R111- (DAB) on convertible roof compartment lid (left-side)
- TV aerial 3 - R57- (TV3) to aerial amplifier 3 for TV - R84- on convertible roof compartment lid (centre)

Bumper aerials

- Telephone aerial - R65- underneath rear bumper cover (right-side), 9ZE and EL3/IW3/IW5
- LTE aerial 1 - R297- underneath rear bumper cover (left-side), EL3 and IW3/IW5
- LTE aerial 2 - R306- underneath rear bumper cover (left-side), EL3 and IW0

LTE aerial 2 - R306- underneath rear bumper cover (left-side), EL3 and IW0
Audi A5 2016 ➢ , Audi A5 Cabriolet 2017 ➢ , Audi A5 Sportback 2017 ➢ Communication - Edition 04.2018
3.1.5 Layout - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)
The aerial systems consist of the radio and TV aerials, the bumper aerials and other aerials.
Radio and TV aerials
Aerial - R11- (AM/FM1) to aerial amplifier - R24- at convertible roof compartment lid (right-side)
Radio aerial - R248- (AM2) to aerial amplifier 3 - R112- at main mounting for convertible roof (right-side)
TV aerial 1 - R55- (TV1) to aerial amplifier 1 for TV - R82- on ledge (right-side)
TV aerial 2 - R56- (TV2) to aerial amplifier 2 for TV - R83- on ledge (left-side)
Radio aerial 2 - R93- (FM2)/ digital radio aerial - R183- (DAB) to aerial amplifier 2 - R111- (DAB) on convertible roof compartment lid (left-side)
TV aerial 3 - R57- (TV3) to aerial amplifier 3 for TV - R84- on convertible roof compartment lid (centre)
Bumper aerials
Telephone aerial - R65- underneath rear bumper cover (right-side), 9ZE and EL3/IW3/IW5
LTE aerial 1 - R297- underneath rear bumper cover (left-side), EL3 and IW3/IW5
LTE aerial 2 - R306- underneath rear bumper cover (left-side), EL3 and IW0
Other aerials
GPS aerial - R50- on convertible roof compartment lid (left-side)
Telephone aerial - R65- on convertible roof compartment lid (centre), 9ZE, EL0 and IW0
Satellite aerial - R170- on convertible roof compartment lid, QV8
Traffic data aerial - R173- on windscreen (top), Japan only
Dedicated short-range communication aerial - R269- in dash panel (front centre), Japan only
Emergency call module aerial - R263- under rear seat bench (left-side) in bracket for data bus diagnostic interface - J533- , IW3/IW5
LTE aerial 1 - R297- on convertible roof compartment lid (centre), EL3 and IW0
LTE aerial 2 - R306- underneath dash panel (front centre), EL3 and IW3/IW5
Emergency call module aerial 2 - R322- on convertible roof compartment lid (centre), IW3/IW5
Repairing aerial wiring ⇒ Electrical system; Rep. gr. 97 ; Repairing aerial wires .

3.2 Overview of fitting locations - aerial systems

⇒ “3.2.1 Overview of fitting locations - aerial systems, Coupé, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 55

⇒ “3.2.2 Overview of fitting locations - aerial systems, Coupé, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 58

⇒ “3.2.3 Overview of fitting locations - aerial systems, Coupé, Russia only”, page 60

⇒ “3.2.4 Overview of fitting locations - aerial systems, Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 62

⇒ “3.2.5 Overview of fitting locations - aerial systems, Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 64

⇒ “3.2.6 Overview of fitting locations - aerial systems, Sportback, Russia only”, page 66

⇒ “3.2.7 Overview of fitting locations - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 67

⇒ “3.2.8 Overview of fitting locations - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 69

3.2.1 Overview of fitting locations - aerial systems, Coupé, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)

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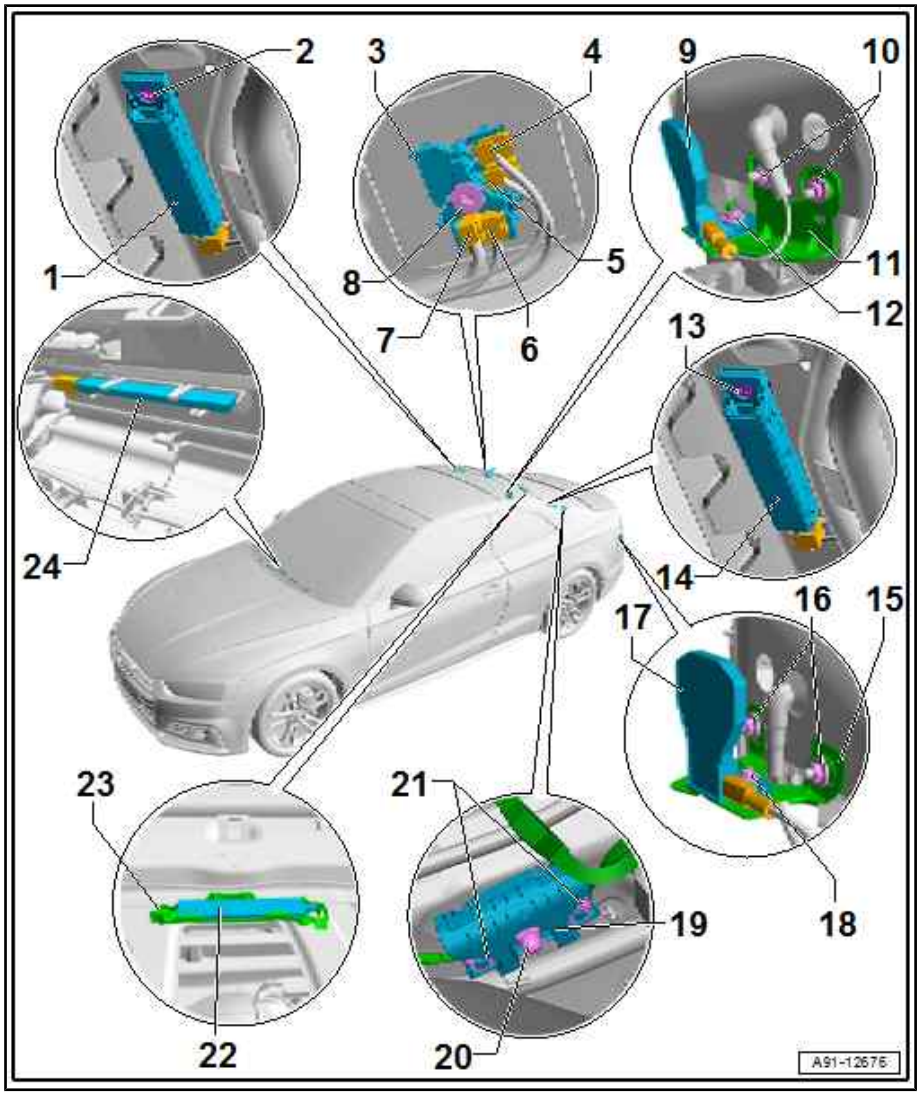

1 - Aerial amplifier - R24- on C-pillar (top right)

- ❑ Removing and installing ⇒ page 72

Aerial amplifier 1 for TV - R82- on C-pillar (bottom right)

- ❑ Removing and installing ⇒ page 79

2 - Bolt

- ❑ 2 Nm

3 - Roof aerial - R216-

- ❑ Aerial assignment according to equipment version
- ❑ Removing and installing ⇒ page 100

4 - GPS connection from GPS aerial - R50-

5 - SAT connection from satellite aerial - R170- , QV8

6 - GSM connection from telephone aerial - R65-

- ❑ 9ZE and EL0 only

- LTE connection from LTE aerial 1 - R297-

- ❑ EL3 only

7 - RC connection from auxiliary heater aerial - R182- , 9M9

8 - Bolt

- ❑ 5 Nm

9 - Telephone aerial - R65-

- ❑ 9ZE and EL3 only
- ❑ Removing and installing ⇒ page 90

10 - Nut

- ❑ 2x
- ❑ 3 Nm

11 - Bracket

12 - Nut

- ❑ 3 Nm

13 - Bolt

- ❑ 2 Nm

14 - Aerial amplifier 2 - R111- on C-pillar (top left)

- ❑ Removing and installing ⇒ page 75

- Aerial amplifier 2 for TV - R83- on C-pillar (bottom left)

- ❑ Removing and installing ⇒ page 82

15 - Bracket

16 - Nut

- ❑ 2x
- ❑ 3 Nm

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17 - LTE aerial 2 - R306-

- ❑ EL3 only
- ❑ Removing and installing ⇒ page 103

18 - Nut

- ❑ 3 Nm

19 - Window aerial suppression filter - C18-

- ❑ Removing and installing ⇒ page 86

20 - Nut

- ❑ 9 Nm

21 - Nut

- ❑ 2x
- ❑ 9 Nm

22 - Emergency call module aerial - R263-

- ❑ IW3/IW5 and 4GR/4GY only
- ❑ Removing and installing ⇒ page 94

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23 - Bracket

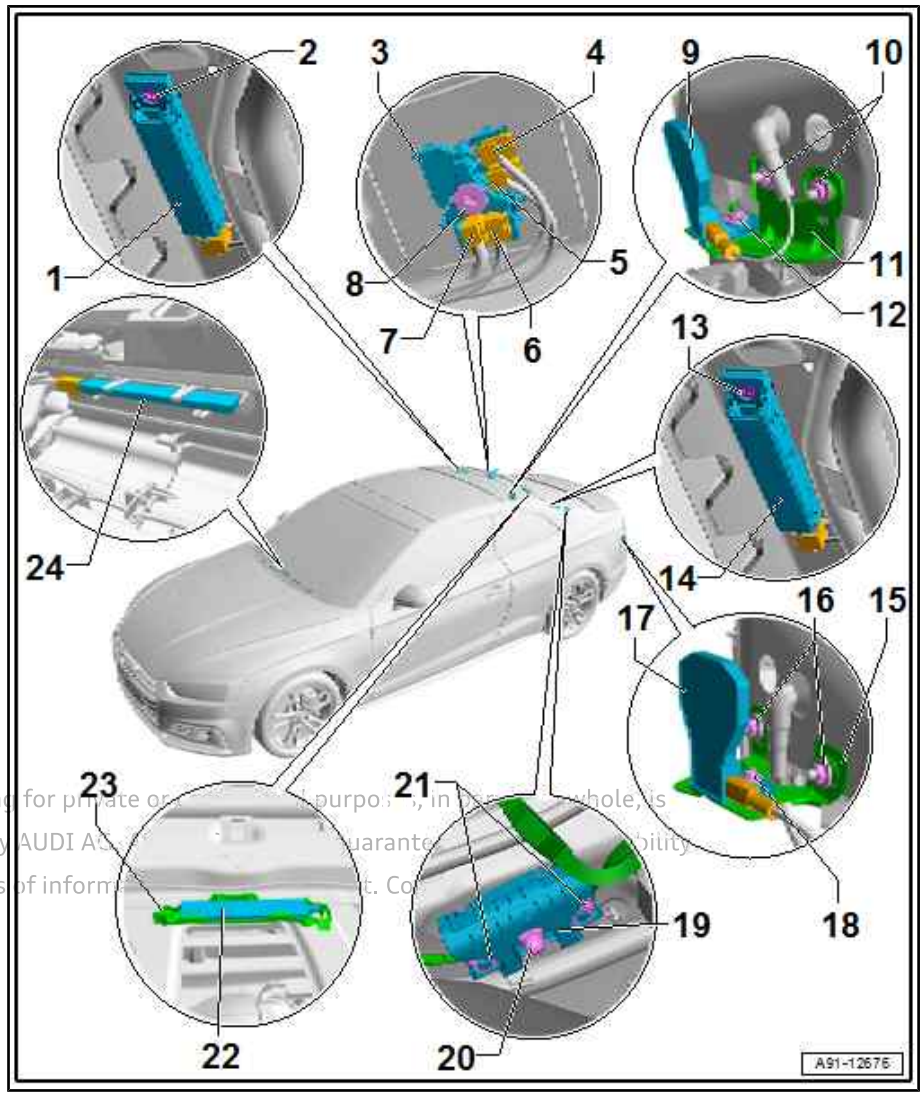
24 - Emergency call module aerial - R263-

- ❑ IW3/IW5 and 4GF/4GS only
- ❑ Removing and installing ⇒ page 94

- Emergency call module aerial 2 - R322-

- ❑ IW3/IW5 and 4GR/4GY only
- ❑ Removing and installing ⇒ page 98

3.2.2 Overview of fitting locations - aerial systems, Coupé, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)



1 - Aerial amplifier - R24- on C-pillar (top right)

- ❑ Removing and installing ⇒ page 72

Aerial amplifier 1 for TV - R82- on C-pillar (bottom right)

- ❑ Removing and installing ⇒ page 79

2 - Bolt

- ❑ 2 Nm

3 - Roof aerial - R216-

- ❑ Aerial assignment according to equipment version
- ❑ Removing and installing ⇒ page 100

4 - GPS connection from GPS aerial - R50-

5 - SAT connection from satellite aerial - R170- , QV8

6 - GSM connection from telephone aerial - R65-

- ❑ 9ZE and EL0 and IW0 only

- LTE connection from LTE aerial 1 - R297-

- ❑ EL3 and IW0 only

- GSM connection from emergency call module aerial 2 - R322-

- ❑ IW3/IW5 only

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7 - RC connection from auxiliary heater aerial - R182- , 9M9

8 - Bolt

- ❑ 5 Nm

9 - Telephone aerial - R65-

- ❑ 9ZE and EL3/IW3/IW5 only
- ❑ Removing and installing ⇒ page 90

10 - Nut

- ❑ 2x
- ❑ 3 Nm

11 - Bracket

12 - Nut

- ❑ 3 Nm

13 - Bolt

- ❑ 2 Nm

14 - Aerial amplifier 2 - R111- on C-pillar (top left)

- ❑ Removing and installing ⇒ page 75

- Aerial amplifier 2 for TV - R83- on C-pillar (bottom left)

- ❑ Removing and installing ⇒ page 82

15 - Bracket

16 - Nut

- ❑ 2x
- ❑ 3 Nm

17 - LTE aerial 1 - R297-

- ❑ EL3 and IW3/IW5 only
- ❑ Removing and installing ⇒ page 103

- LTE aerial 2 - R306-

- ❑ EL3 and IW0 only
- ❑ Removing and installing ⇒ page 103

18 - Nut

- ❑ 3 Nm

19 - Window aerial suppression filter - C18-

- ❑ Removing and installing ⇒ page 86

20 - Nut

- ❑ 9 Nm

21 - Nut

- ❑ 2x
- ❑ 9 Nm

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22 - Emergency call module aerial - R263-

- ❑ IW3/IW5 only
- ❑ Removing and installing ⇒ page 95

23 - Bracket

24 - LTE aerial 2 - R306-

- ❑ EL3 and IW3/IW5 only
- ❑ Removing and installing ⇒ page 103

3.2.3 Overview of fitting locations - aerial systems, Coupé, Russia only

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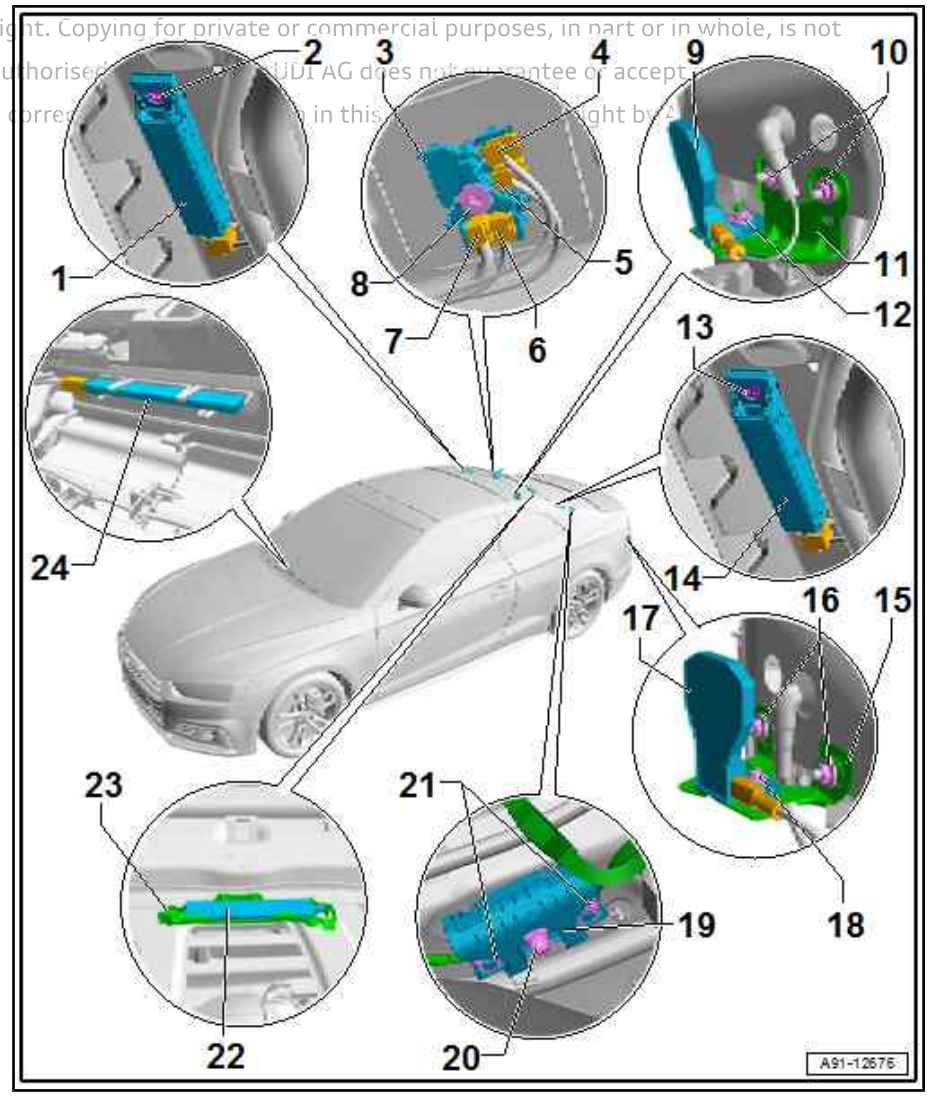

1 - Aerial amplifier - R24- on C-pillar (top right)

- ❑ Removing and installing ⇒ page 72

Aerial amplifier 1 for TV - R82- on C-pillar (bottom right)

- ❑ Removing and installing ⇒ page 79

2 - Bolt

- ❑ 2 Nm

3 - Roof aerial - R216-

- ❑ Aerial assignment according to equipment version
- ❑ Removing and installing ⇒ page 100

4 - GPS connection from GPS aerial - R50-

5 - Not used

6 - GSM connection from emergency call module aerial - R263-

7 - RC connection from auxiliary heater aerial - R182-

8 - Bolt

- ❑ 5 Nm

9 - Telephone aerial - R65-

- ❑ 9ZE only
- ❑ Removing and installing ⇒ page 90

10 - Nut

- ❑ 2x
- ❑ 3 Nm

11 - Bracket

12 - Nut

- ❑ 3 Nm

13 - Bolt

- ❑ 2 Nm

14 - Aerial amplifier 2 - R111- on C-pillar (top left)

- ❑ Removing and installing ⇒ page 75

- Aerial amplifier 2 for TV - R83- on C-pillar (bottom left)

- ❑ Removing and installing ⇒ page 82

15 - Bracket

16 - Nut

- ❑ 2x
- ❑ 3 Nm

17 - LTE aerial 1 - R297-

- ❑ EL3 only
- ❑ Removing and installing ⇒ page 104

18 - Nut

- ❑ 3 Nm

19 - Window aerial suppression filter - C18-

- ❑ Removing and installing ⇒ page 86

20 - Nut

- ❑ 9 Nm

21 - Nut

- ❑ 2x
- ❑ 9 Nm

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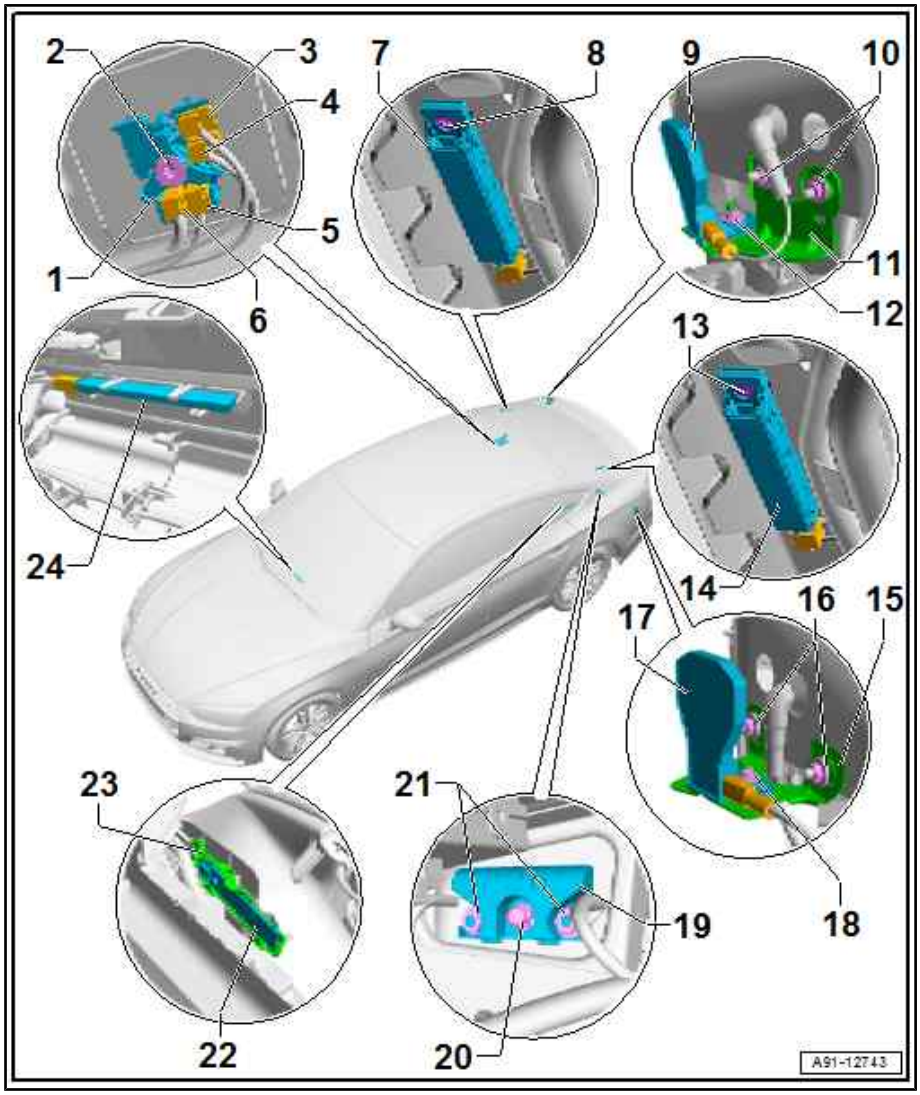
22 - LTE aerial 2 - R306-

- ❑ EL3 only
- ❑ Removing and installing ⇒ page 104

23 - Bracket

24 - Not fitted

3.2.4 Overview of fitting locations - aerial systems, Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)



1 - Roof aerial - R216-

- ❑ Aerial assignment according to equipment version
- ❑ Removing and installing ⇒ page 100

2 - Bolt

- ❑ 5 Nm

3 - GPS connection from GPS aerial - R50-

4 - SAT connection from satellite aerial - R170- , QV8

5 - GSM connection from telephone aerial - R65-

- ❑ 9ZE and EL0 only

- LTE connection from LTE aerial 1 - R297-

- ❑ EL3 only

6 - RC connection from auxiliary heater aerial - R182- , 9M9

7 - Aerial amplifier - R24- on rear lid (top right)

- ❑ Removing and installing ⇒ page 73

- Aerial amplifier 1 for TV - R82- on rear lid (bottom right)

- ❑ Removing and installing ⇒ page 80

8 - Bolt

- ❑ 2 Nm

9 - Telephone aerial - R65-

- ❑ 9ZE and EL3 only
- ❑ Removing and installing ⇒ page 90

10 - Nut

- ❑ 2x
- ❑ 3 Nm

11 - Bracket

12 - Nut

- ❑ 3 Nm

13 - Bolt

- ❑ 2 Nm

14 - Aerial amplifier 2 - R111- on rear lid (top left)

- ❑ Removing and installing ⇒ page 76

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- Aerial amplifier 2 for TV - R83- on rear lid (bottom left)

- ❑ Removing and installing ⇒ page 83

15 - Bracket

16 - Nut

- ❑ 2x
- ❑ 3 Nm

17 - LTE aerial 2 - R306-

- ❑ EL3 only
- ❑ Removing and installing ⇒ page 103

18 - Nut

- ❑ 3 Nm

19 - Window aerial suppression filter - C18-

- ❑ Removing and installing ⇒ page 87

20 - Nut

- ❑ 9 Nm

21 - Nut

- ❑ 2x
- ❑ 9 Nm

22 - Emergency call module aerial - R263-

- ❑ IW3/IW5 and 4GR/4GY only
- ❑ Removing and installing ⇒ page 95

23 - Bracket

24 - Emergency call module aerial - R263-

- ❑ IW3/IW5 and 4GF/4GS only
- ❑ Removing and installing ⇒ page 95

Emergency call module aerial 2 - R322-

- ❑ IW3/IW5 and 4GR/4GY only
- ❑ Removing and installing ⇒ page 98

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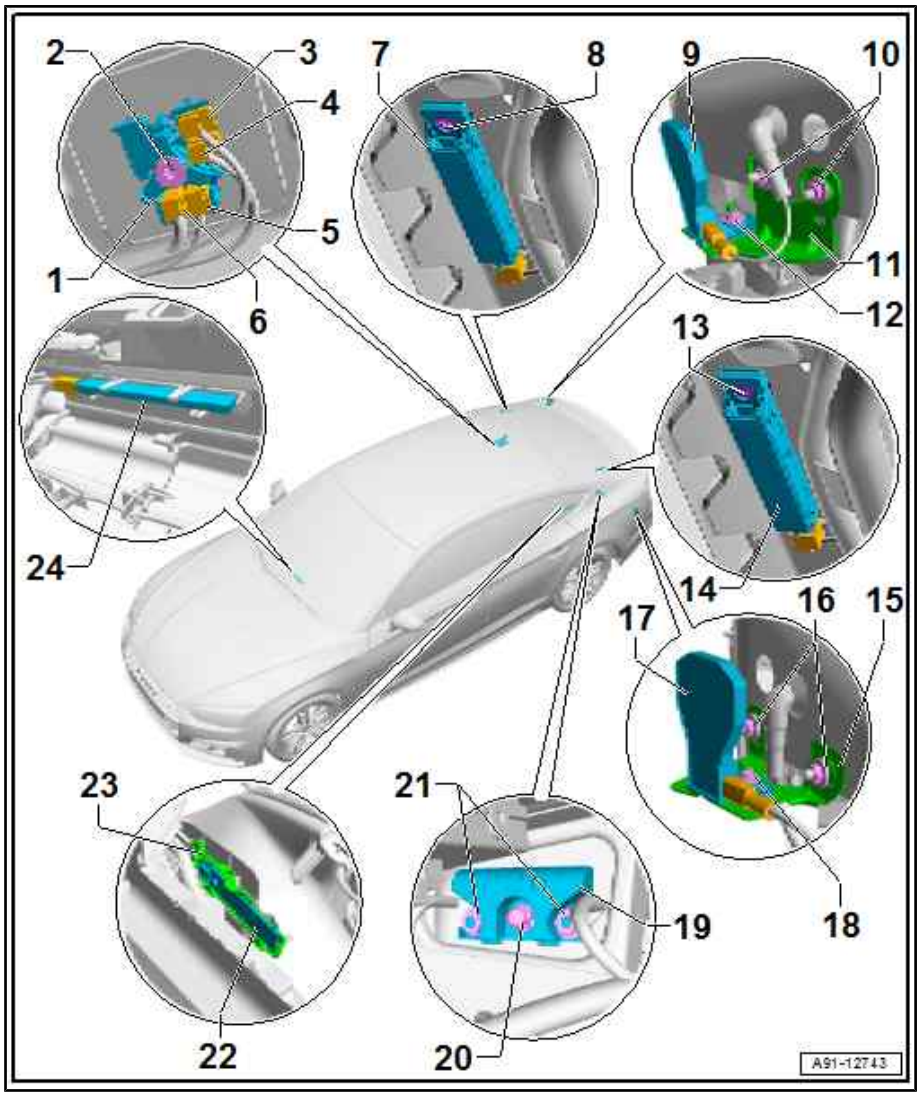
3.2.5 Overview of fitting locations - aerial systems, Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)



1 - Roof aerial - R216-

- ❑ Aerial assignment according to equipment version
- ❑ Removing and installing ⇒ page 100

2 - Bolt

- ❑ 5 Nm

3 - GPS connection from GPS aerial - R50-

4 - SAT connection from satellite aerial - R170- , QV8

5 - GSM connection from telephone aerial - R65-

- ❑ 9ZE and EL0 and IW0 only

- LTE connection from LTE aerial 1 - R297-

- ❑ EL3 and IW0 only

- GSM connection from emergency call module aerial 2 - R322-

- ❑ IW3/IW5 only

6 - RC connection from auxiliary heater aerial - R182- , 9M9

7 - Aerial amplifier - R24- on rear lid (top right)

- ❑ Removing and installing ⇒ page 73

- Aerial amplifier 1 for TV - R82- on rear lid (bottom right)

- ❑ Removing and installing ⇒ page 80

8 - Bolt

- ❑ 2 Nm

9 - Telephone aerial - R65-

- ❑ 9ZE and EL3/IW3/IW5 only
- ❑ Removing and installing ⇒ page 90

10 - Nut

- ❑ 2x
- ❑ 3 Nm

11 - Bracket

12 - Nut

- ❑ 3 Nm

13 - Bolt

- ❑ 2 Nm

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14 - Aerial amplifier 2 - R111- on rear lid (top left)

- ❑ Removing and installing ⇒ page 76

- Aerial amplifier 2 for TV - R83- on rear lid (bottom left)

- ❑ Removing and installing ⇒ page 83

15 - Bracket

16 - Nut

- ❑ 2x
- ❑ 3 Nm

17 - LTE aerial 1 - R297-

- ❑ EL3 and IW3/IW5 only
- ❑ Removing and installing ⇒ page 103

- LTE aerial 2 - R306-

- ❑ EL3 and IW0 only
- ❑ Removing and installing ⇒ page 103

18 - Nut

- ❑ 3 Nm

19 - Window aerial suppression filter - C18-

- ❑ Removing and installing ⇒ page 87

20 - Nut

- ❑ 9 Nm

21 - Nut

- ❑ 2x
- ❑ 9 Nm

22 - Emergency call module aerial - R263-

- ❑ IW3/IW5 only
- ❑ Removing and installing ⇒ page 96

23 - Bracket

24 - LTE aerial 2 - R306-

- ❑ EL3 and IW3/IW5 only
- ❑ Removing and installing ⇒ page 103

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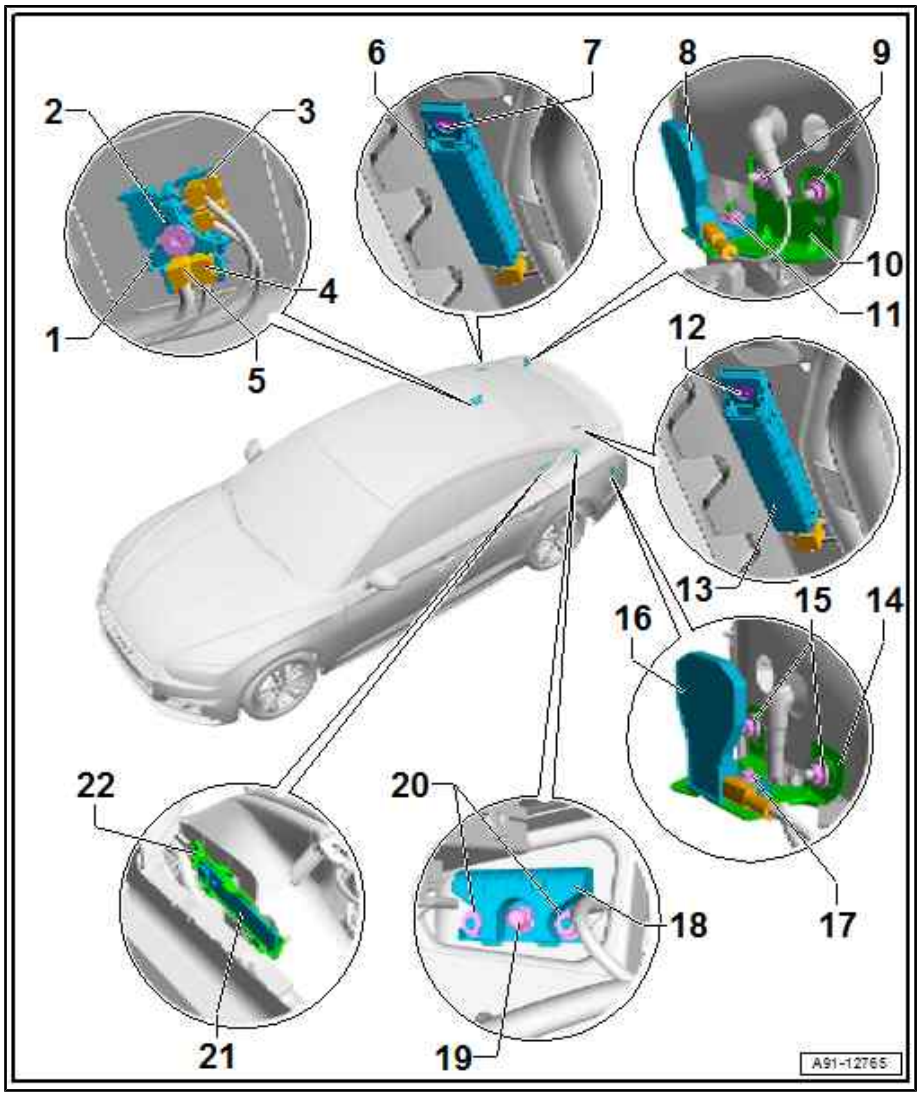
3.2.6 Overview of fitting locations - aerial systems, Sportback, Russia only



1 - Roof aerial - R216-

- ❑ Aerial assignment according to equipment version
- ❑ Removing and installing ⇒ page 100

2 - Bolt

- ❑ 5 Nm

3 - GPS connection from GPS aerial - R50-

4 - GSM connection from emergency call module aerial - R263-

5 - RC connection from auxiliary heater aerial - R182-

6 - Aerial amplifier - R24- on rear lid (top right)

- ❑ Removing and installing ⇒ page 73

- Aerial amplifier 1 for TV - R82- on rear lid (bottom right)

- ❑ Removing and installing ⇒ page 80

7 - Bolt

- ❑ 2 Nm

8 - Telephone aerial - R65-

- ❑ 9ZE only
- ❑ Removing and installing ⇒ page 90

9 - Nut

- ❑ 2x
- ❑ 3 Nm

10 - Bracket

11 - Nut

- ❑ 3 Nm

12 - Bolt

- ❑ 2 Nm

13 - Aerial amplifier 2 - R111- on rear lid (top left)

- ❑ Removing and installing ⇒ page 76

- Aerial amplifier 2 for TV - R83- on rear lid (bottom left)

- ❑ Removing and installing ⇒ page 83

14 - Bracket

15 - Nut

- ❑ 2x
- ❑ 3 Nm

16 - LTE aerial 1 - R297-

- ❑ EL3 only

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- ❑ Removing and installing ⇒ page 104

17 - Nut

- ❑ 3 Nm

18 - Window aerial suppression filter - C18-

- ❑ Removing and installing ⇒ page 87

19 - Nut

- ❑ 9 Nm

20 - Nut

- ❑ 2x
- ❑ 9 Nm

21 - LTE aerial 2 - R306-

- ❑ EL3 only
- ❑ Removing and installing ⇒ page 104

22 - Bracket

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3.2.7 Overview of fitting locations - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)

1 - Emergency call module aerial - R263-

- ❑ IW3/IW5 only
- ❑ Removing and installing ⇒ page 97

2 - Aerial amplifier 1 for TV - R82-

- ❑ On ledge (right-side)
- ❑ Removing and installing ⇒ page 81

3 - Bolt

- ❑ 2 Nm

4 - Aerial amplifier 3 - R112-

- ❑ On main mounting for convertible roof (right-side)
- ❑ Removing and installing ⇒ page 78

5 - Bolt

- ❑ 2 Nm

6 - Bolt

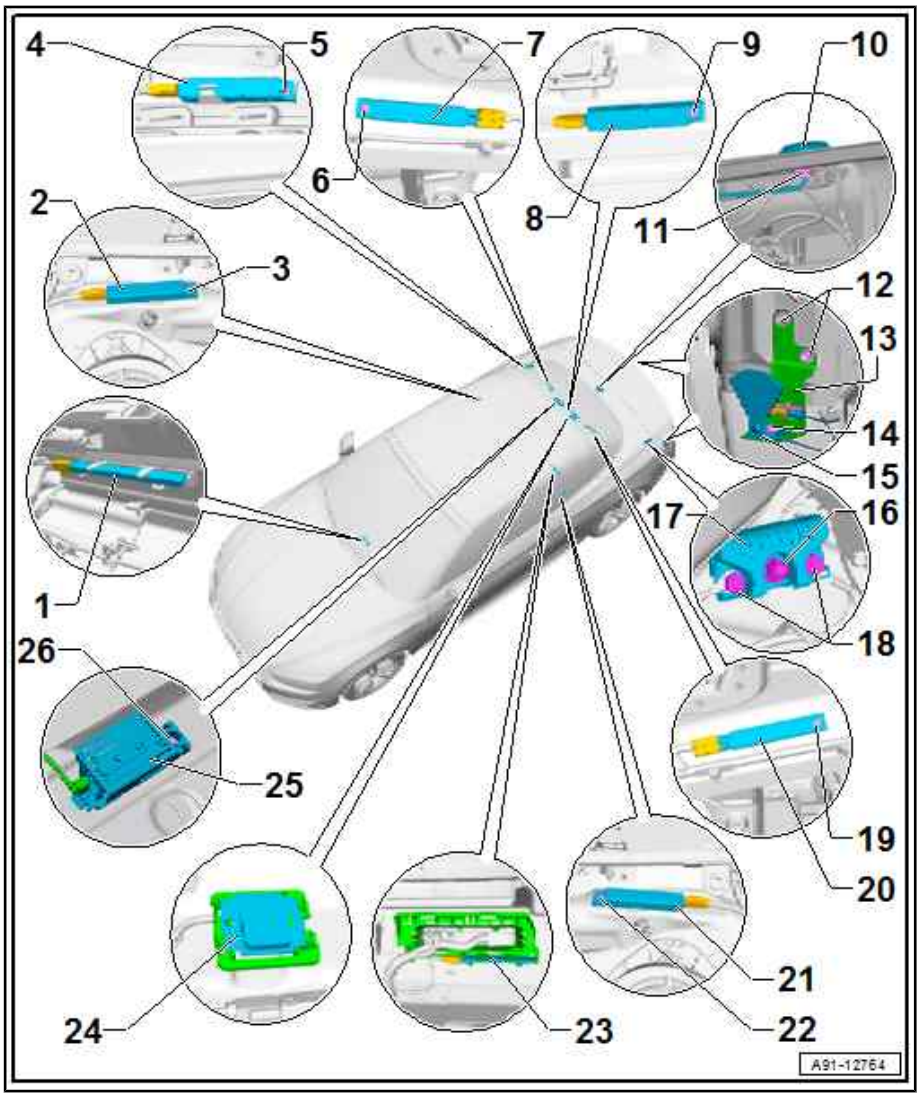
- ❑ 2 Nm

7 - Aerial amplifier - R24-

- ❑ On convertible roof compartment lid (right-side)
- ❑ Removing and installing ⇒ page 74

8 - Aerial amplifier 3 for TV - R84-

- ❑ On convertible roof



compartment lid (centre)

- ❑ Removing and installing ⇒ page 85

9 - Bolt

- ❑ 2 Nm

10 - Satellite tuner aerial - R172-

- ❑ On convertible roof compartment lid (centre)
- ❑ QV8 only
- ❑ Removing and installing ⇒ page 91

11 - Nut

- ❑ 6 Nm

12 - Nut

- ❑ 2x
- ❑ 3 Nm

13 - Bracket

14 - Nut

- ❑ 3 Nm

15 - Telephone aerial - R65-

- ❑ Under rear bumper cover (right-side)
- ❑ 9ZE and EL3 only
- ❑ Removing and installing ⇒ page 90

LTE aerial 2 - R306-

- ❑ Under rear bumper cover (left-side)
- ❑ EL3 only
- ❑ Removing and installing ⇒ page 105

16 - Nut

- ❑ 9 Nm

17 - Window aerial suppression filter - C18-

- ❑ Removing and installing

18 - Nut

- ❑ 2x
- ❑ 9 Nm

19 - Bolt

- ❑ 2 Nm

20 - Aerial amplifier 2 - R111-

- ❑ On convertible roof compartment lid (left-side)
- ❑ Removing and installing ⇒ page 77

21 - Aerial amplifier 2 for TV - R83-

- ❑ On ledge (left-side)
- ❑ Removing and installing ⇒ page 84

22 - Bolt

- ❑ 2 Nm

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23 - Emergency call module aerial 2 - R322-

- ❑ Beneath rear seat bench (left-side)
- ❑ IW13/IW5 only
- ❑ Removing and installing ⇒ page 99

24 - GPS aerial - R50-

- ❑ On convertible roof compartment lid (centre left)
- ❑ Removing and installing ⇒ page 89

25 - Telephone aerial - R65-

- ❑ On convertible roof compartment lid (centre right)
- ❑ 9ZE and EL0 only
- ❑ Removing and installing ⇒ page 90

- LTE aerial 1 - R297-

- ❑ On convertible roof compartment lid (centre right)
- ❑ EL3 only
- ❑ Removing and installing ⇒ page 105

26 - Bolt

- ❑ 4 Nm

3.2.8 Overview of fitting locations - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)

1 - LTE aerial 2 - R306-

- ❑ EL3 and IW3/IW5 only
- ❑ Removing and installing ⇒ page 106

2 - Aerial amplifier 1 for TV - R82-

- ❑ On ledge (right-side)
- ❑ Removing and installing ⇒ page 81

3 - Bolt

- ❑ 2 Nm

4 - Aerial amplifier 3 - R112-

- ❑ On main mounting for convertible roof (right-side)
- ❑ Removing and installing ⇒ page 78

5 - Bolt

- ❑ 2 Nm

6 - Bolt

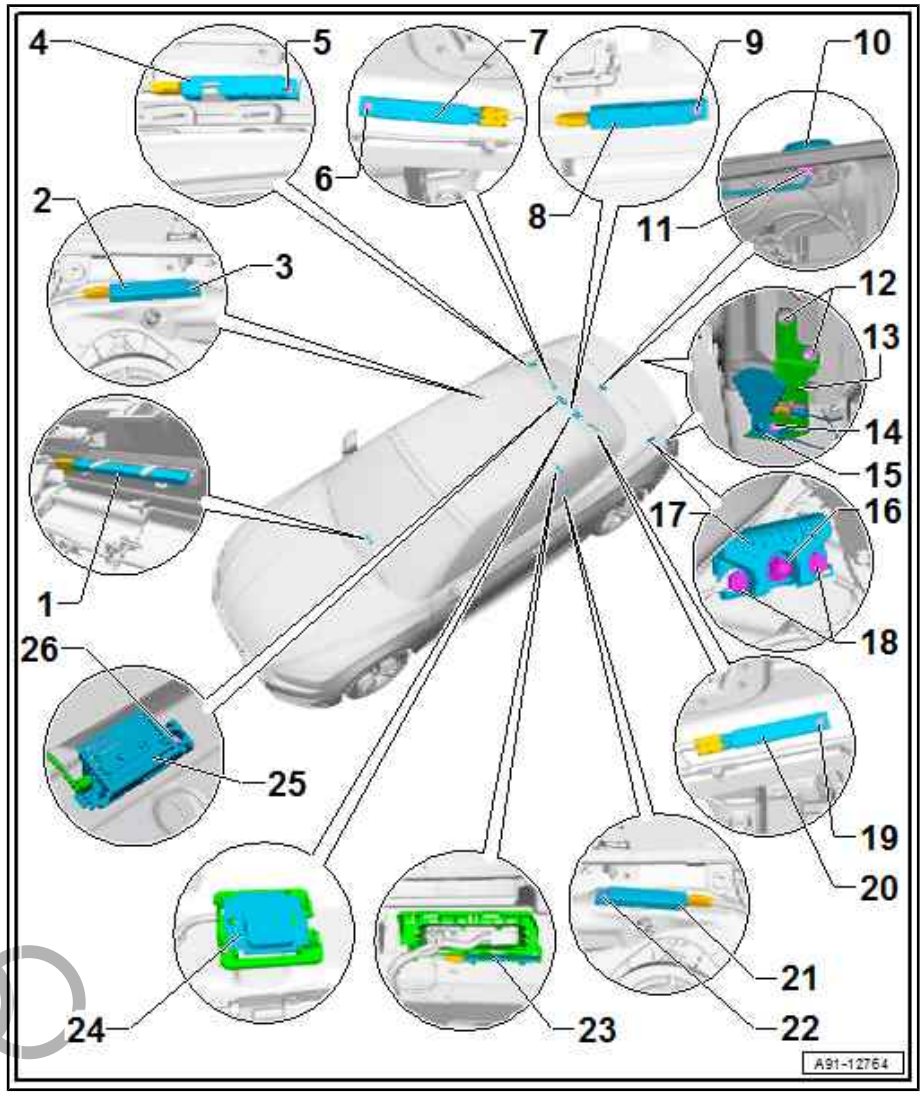
- ❑ 2 Nm

7 - Aerial amplifier - R24-

- ❑ On convertible roof compartment lid (right-side)
- ❑ Removing and installing ⇒ page 74

8 - Aerial amplifier 3 for TV - R84-

- ❑ On convertible roof compartment lid (centre)
- ❑ Removing and installing ⇒ page 85



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9 - Bolt

- ❑ 2 Nm

10 - Satellite tuner aerial - R172-

- ❑ On convertible roof compartment lid (centre)
- ❑ QV8 only
- ❑ Removing and installing ⇒ page 91

11 - Nut

- ❑ 6 Nm

12 - Nut

- ❑ 2x
- ❑ 3 Nm

13 - Bracket

14 - Nut

- ❑ 3 Nm

15 - Telephone aerial - R65-

- ❑ Under rear bumper cover (right-side)
- ❑ 9ZE and EL3/IW3/IW5 only
- ❑ Removing and installing ⇒ page 90

- LTE aerial 1 - R297-

- ❑ Under rear bumper cover (left-side)
- ❑ EL3 and IW3/IW5 only
- ❑ Removing and installing ⇒ page 106

- LTE aerial 2 - R306-

- ❑ Under rear bumper cover (left-side)
- ❑ EL3 and IW0 only
- ❑ Removing and installing ⇒ page 105

16 - Nut

- ❑ 9 Nm

17 - Window aerial suppression filter - C18-

- ❑ Removing and installing

18 - Nut

- ❑ 2x
- ❑ 9 Nm

19 - Bolt

- ❑ 2 Nm

20 - Aerial amplifier 2 - R111-

- ❑ On convertible roof compartment lid (left-side)
- ❑ Removing and installing ⇒ page 77

21 - Aerial amplifier 2 for TV - R83-

- ❑ On ledge (left-side)
- ❑ Removing and installing ⇒ page 84

22 - Bolt

- ❑ 2 Nm

23 - Emergency call module aerial - R263-

- ❑ Beneath rear seat bench (left-side)
- ❑ IW3/IW5 only

- ❑ Removing and installing ⇒ page 97

24 - GPS aerial - R50-

- ❑ On convertible roof compartment lid (centre left)
- ❑ Removing and installing ⇒ page 89

25 - Telephone aerial - R65-

- ❑ On convertible roof compartment lid (centre right)
- ❑ 9ZE and EL3 and IW0 only
- ❑ Removing and installing ⇒ page 90

- LTE aerial 1 - R297-

- ❑ On convertible roof compartment lid (centre right)
- ❑ EL3 and IW0 only
- ❑ Removing and installing ⇒ page 105

- Emergency call module aerial 2 - R322-

- ❑ On convertible roof compartment lid (centre right)
- ❑ IW3/IW5 only
- ❑ Removing and installing ⇒ page 99

26 - Bolt

- ❑ 4 Nm

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3.3 Removing and installing aerial amplifiers

⇒ “3.3.1 Removing and installing aerial amplifier R24 - Coupé”, page 72

⇒ “3.3.2 Removing and installing aerial amplifier R24 - Sportback”, page 73

⇒ “3.3.3 Removing and installing aerial amplifier R24 - Cabriolet”, page 74

⇒ “3.3.4 Removing and installing aerial amplifier 2 R111 - Coupé”, page 75

⇒ “3.3.5 Removing and installing aerial amplifier 2 R111 - Sportback”, page 76

⇒ “3.3.6 Removing and installing aerial amplifier 2 R111 - Cabriolet”, page 77

⇒ “3.3.7 Removing and installing aerial amplifier 3 R112 - Cabriolet”, page 78

⇒ “3.3.8 Removing and installing aerial amplifier 1 for TV R82 - Coupé”, page 79

⇒ “3.3.9 Removing and installing aerial amplifier 1 for TV R82 - Sportback”, page 80

⇒ “3.3.10 Removing and installing aerial amplifier 1 for TV R82 - Cabriolet”, page 81

⇒ “3.3.11 Removing and installing aerial amplifier 2 for TV R83 - Coupé”, page 82

⇒ “3.3.12 Removing and installing aerial amplifier 2 for TV R83 - Sportback”, page 83

⇒ “3.3.13 Removing and installing aerial amplifier 2 for TV R83 - Cabriolet”, page 84

⇒ “3.3.14 Removing and installing aerial amplifier 3 for TV R84 - Cabriolet”, page 85

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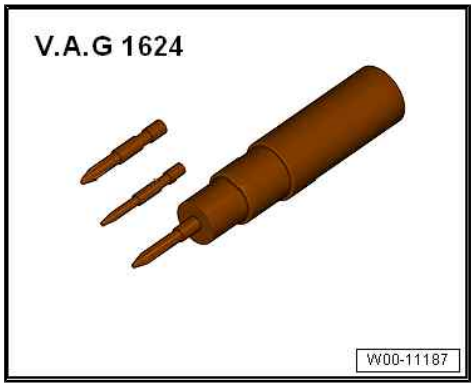
3.3.1 Removing and installing aerial amplifier - R24- - Coupé

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-

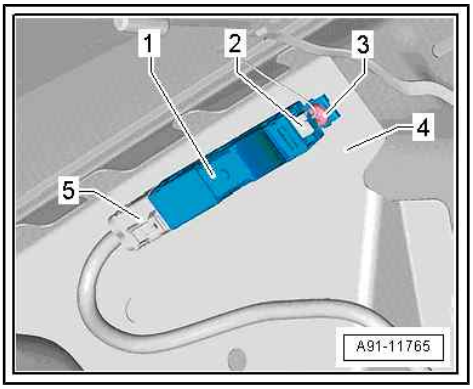


Aerial amplifier - R24- is located at C-pillar (top right).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

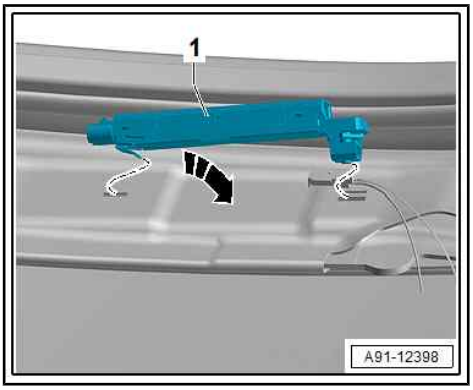
– Remove C-pillar trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing C-pillar trim .
– Release and unplug connectors -2- and -5- at aerial amplifier - R24- -1-.
– Unscrew bolt -3- and remove aerial amplifier - R24- -1- from C-pillar -4-.



Installing

Installation is carried out in reverse order; note the following:

– Engage aerial amplifier - R24- -1- in recesses (left side first) -arrow- and secure amplifier.
– Fit connectors and secure them.



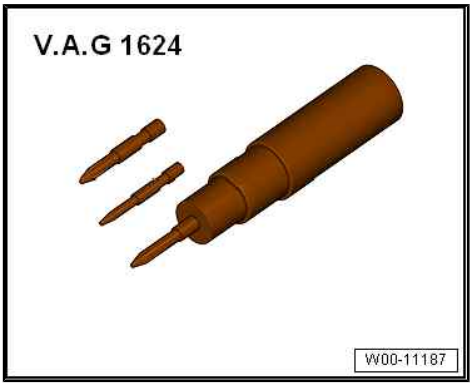
Tightening torques

- ⇒ “3.2.1 Overview of fitting locations - aerial systems, Coupé, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 55
- ⇒ “3.2.2 Overview of fitting locations - aerial systems, Coupé, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 58
- ⇒ “3.2.3 Overview of fitting locations - aerial systems, Coupé, Russia only”, page 60

3.3.2 Removing and installing aerial amplifier - R24- - Sportback

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-



Aerial amplifier - R24- is located on rear lid (top right).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove rear lid trim (top) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing rear lid trim (top) .

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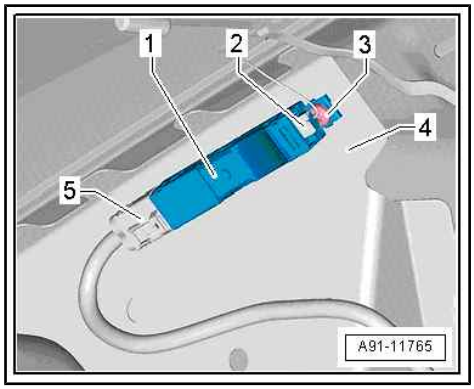
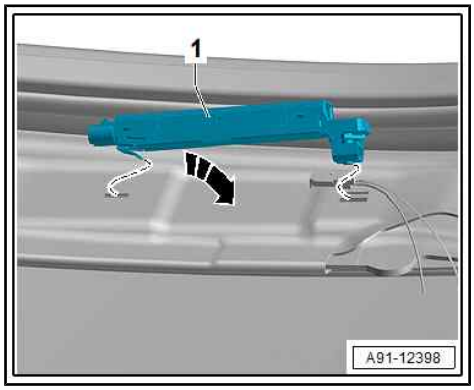
– Release and unplug connectors -2- and -5- at aerial amplifier - R24- -1-.
– Unscrew bolt -3- and remove aerial amplifier - R24- -1- from rear lid -4-.



Installing

Installation is carried out in reverse order; note the following:

– Engage aerial amplifier - R24- -1- in recesses (left side first) -arrow- and secure amplifier.
– Fit connectors and secure them.



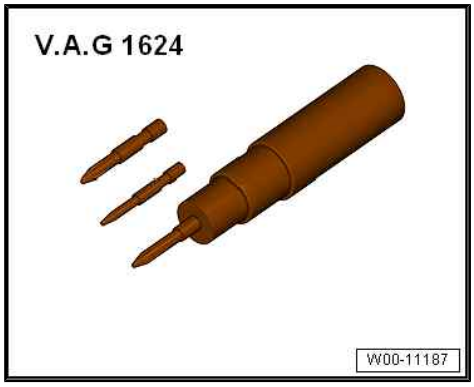
Tightening torques

- ⇒ “3.2.4 Overview of fitting locations - aerial systems, Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 62
- ⇒ “3.2.5 Overview of fitting locations - aerial systems, Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 64
- ⇒ “3.2.6 Overview of fitting locations - aerial systems, Sportback, Russia only”, page 66

3.3.3 Removing and installing aerial amplifier - R24- - Cabriolet

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-



Aerial amplifier - R24- is located underneath trim on convertible roof compartment lid (right-side).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove trim for convertible roof compartment lid ⇒ General body repairs, exterior; Rep. gr. 61 ; Convertible roof .

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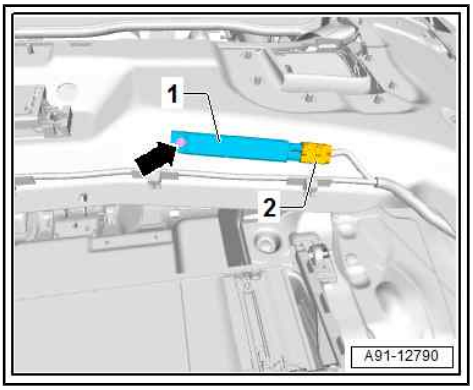
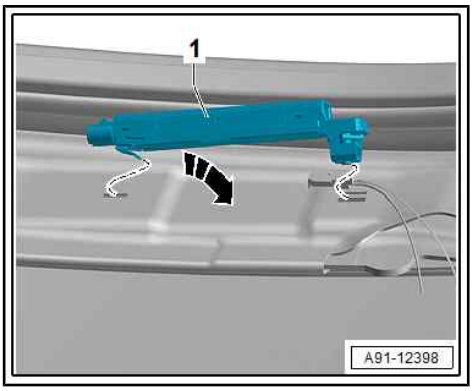
– Release and unplug connector -2- at aerial amplifier - R24- -1-.
– Unscrew bolt -arrow- and remove aerial amplifier - R24- -1- from convertible roof compartment lid.



Installing

Installation is carried out in reverse order; note the following:

– Engage aerial amplifier - R24- -1- in recesses (left side first) -arrow- and secure amplifier.
– Fit connectors and secure them.



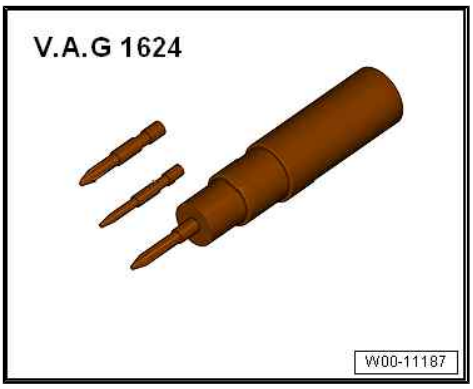
Tightening torques

- ⇒ “3.2.7 Overview of fitting locations - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 67
- ⇒ “3.2.8 Overview of fitting locations - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 69

3.3.4 Removing and installing aerial amplifier 2 - R111- - Coupé

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-



Aerial amplifier 2 - R111- is located at C-pillar (top left).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove C-pillar trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing C-pillar trim .

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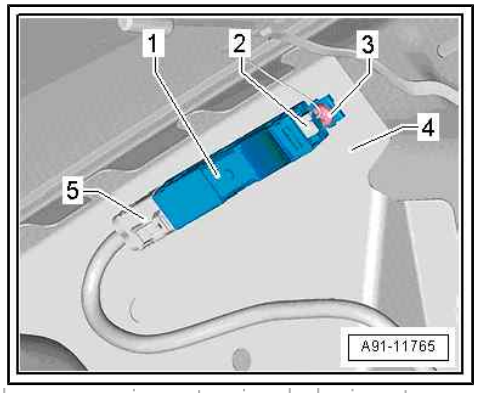
– Release and unplug connectors -2- and -5- at aerial amplifier 2 - R111- -1-.
– Unscrew bolt -3- and remove aerial amplifier 2 - R111- -1- from C-pillar -4-.



Installing

Installation is carried out in reverse order; note the following:

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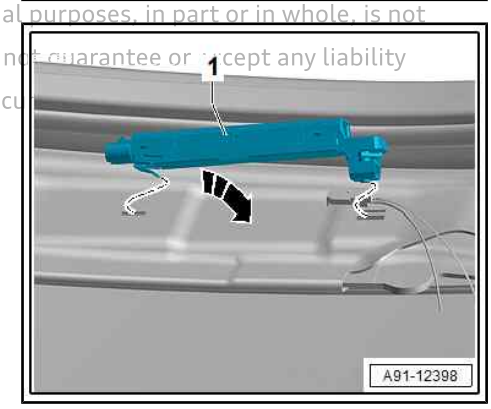
– Engage aerial amplifier 2 - R111- -1- in recesses (left side first) -arrow- and secure amplifier.
– Fit connectors and secure them.



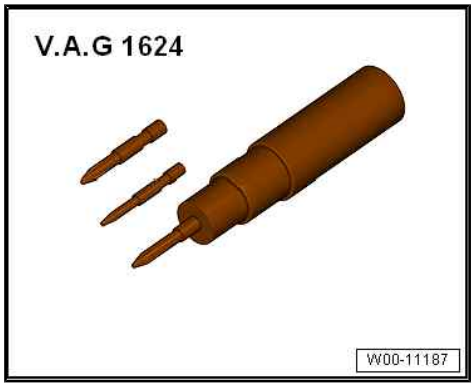
Tightening torques

- ⇒ “3.2.1 Overview of fitting locations - aerial systems, Coupé, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 55
- ⇒ “3.2.2 Overview of fitting locations - aerial systems, Coupé, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 58
- ⇒ “3.2.3 Overview of fitting locations - aerial systems, Coupé, Russia only”, page 60

3.3.5 Removing and installing aerial amplifier 2 - R111- - Sportback

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-

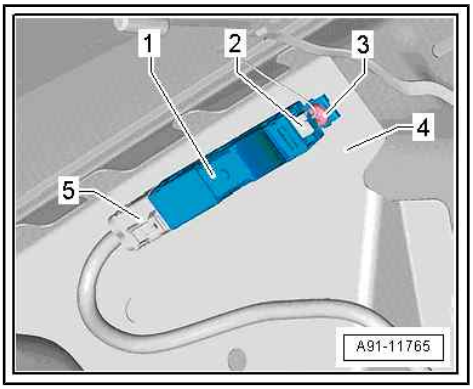


The aerial amplifier 2 - R111- is located on the rear lid (top left).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove rear lid trim (top) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing rear lid trim (top) .

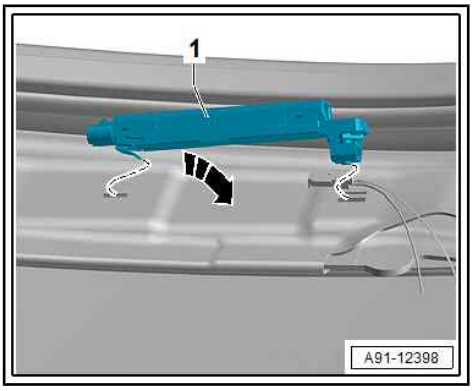
– Release and unplug connectors -2- and -5- at aerial amplifier 2 - R111- -1-.
– Unscrew bolt -3- and remove aerial amplifier 2 - R111- -1- from rear lid -4-.



Installing

Installation is carried out in reverse order; note the following:

– Engage aerial amplifier 2 - R111- -1- in recesses (left side first) -arrow- and secure amplifier.
– Fit connectors and secure them.



Tightening torques

- ⇒ “3.2.4 Overview of fitting locations - aerial systems, Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 62
- ⇒ “3.2.5 Overview of fitting locations - aerial systems, Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 64
- ⇒ “3.2.6 Overview of fitting locations - aerial systems, Sportback, Russia only”, page 66

3.3.6 Removing and installing aerial amplifier 2 - R111- - Cabriolet

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-

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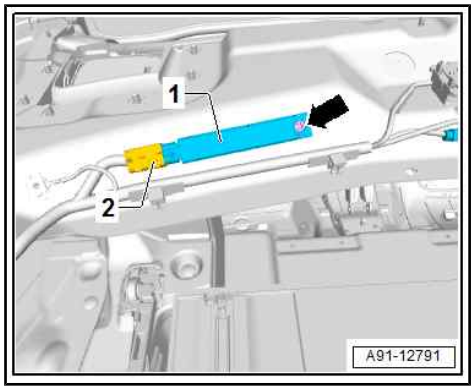
Aerial amplifier 2 - R111- is located underneath trim on convertible roof compartment lid (left-side).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove trim for convertible roof compartment lid ⇒ General body repairs, exterior; Rep. gr. 61 ; Convertible roof .

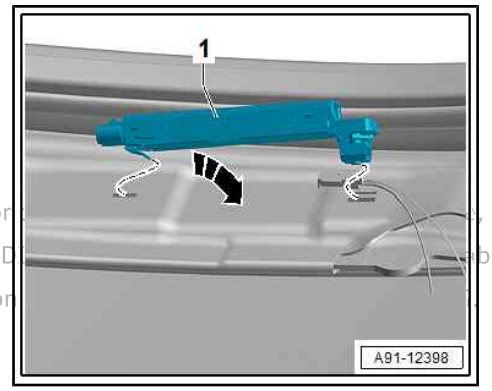
– Release and unplug connector -2- at aerial amplifier 2 - R111- -1-.
– Unscrew bolt -arrow- and remove aerial amplifier 2 - R111- -1- from convertible roof compartment lid.



Installing

Installation is carried out in reverse order; note the following:

– Engage aerial amplifier 2 - R111- -1- in recesses (left side first) -arrow- and secure amplifier.
– Fit connectors and secure them.



Tightening torques

- ⇒ “3.2.7 Overview of fitting locations - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 67
- ⇒ “3.2.8 Overview of fitting locations - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 69

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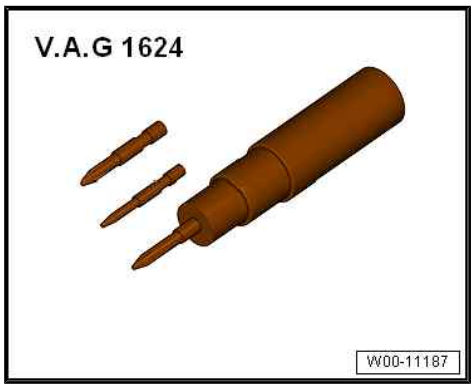
3.3.7 Removing and installing aerial amplifier 3 - R112- - Cabriolet

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-

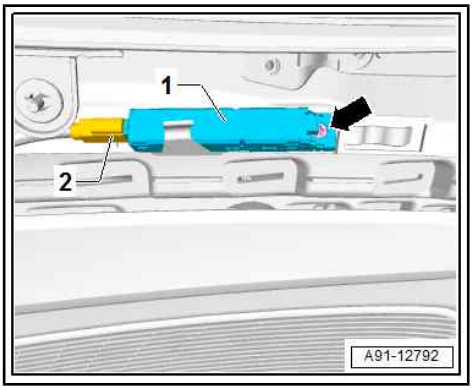


The aerial amplifier 3 - R112- is located at main mounting for convertible roof (right-side).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove convertible roof headliner ⇒ General body repairs, exterior; Rep. gr. 61 ; Convertible roof cover; Removing and installing convertible roof headliner .

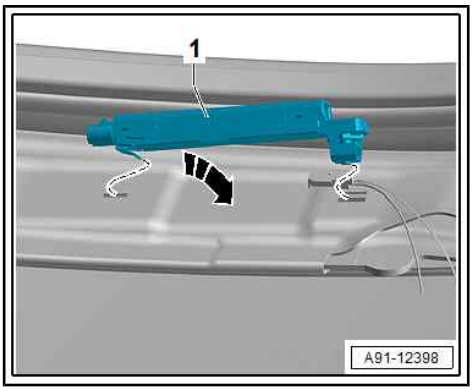
– Release and unplug connector -2- at aerial amplifier 3 - R112- -1-.
– Release and unplug connector for rear window aerial at aerial amplifier 3 - R112- -1-.
– Unscrew bolt -arrow- and remove aerial amplifier 3 - R112- -1- from bracket on main mounting for convertible roof (right-side).



Installing

Installation is carried out in reverse order; note the following:

– Engage aerial amplifier 3 - R112- -1- in recesses (left side first) -arrow- and secure amplifier.
– Fit connectors and secure them.



Tightening torques

- ⇒ “3.2.7 Overview of fitting locations - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 67
- ⇒ “3.2.8 Overview of fitting locations - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 69

3.3.8 Removing and installing aerial amplifier 1 for TV - R82- - Coupé

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-

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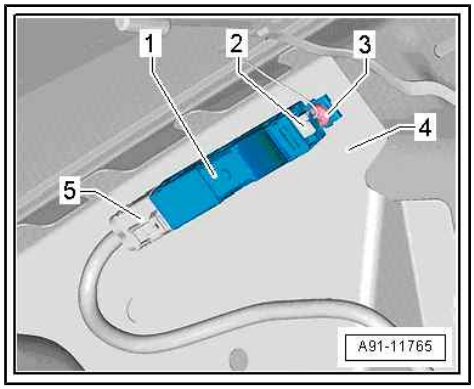
Aerial amplifier 1 for TV - R82- is located on C-pillar (bottom right).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove C-pillar trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing C-pillar trim .

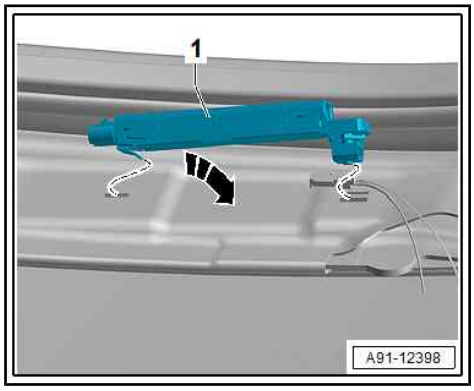
– Release and unplug connectors -2- and -5- at aerial amplifier 1 for TV - R82- -1-.
– Unscrew bolt -3- and remove aerial amplifier 1 for TV - R82- -1- from C-pillar -4-.



Installing

Installation is carried out in reverse order; note the following:

– Engage aerial amplifier -1- in recesses (left side first) -arrow- and secure amplifier.
– Fit connectors and secure them.



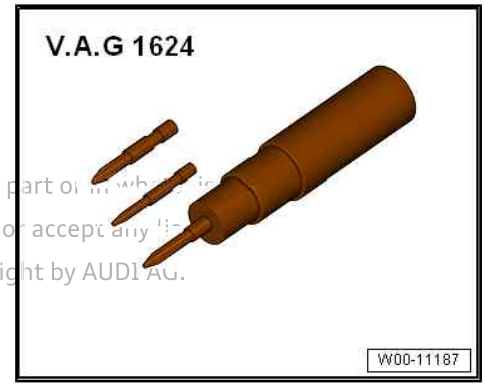
Tightening torques

- ⇒ “3.2.1 Overview of fitting locations - aerial systems, Coupé, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 55
- ⇒ “3.2.2 Overview of fitting locations - aerial systems, Coupé, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 58
- ⇒ “3.2.3 Overview of fitting locations - aerial systems, Coupé, Russia only”, page 60

3.3.9 Removing and installing aerial amplifier 1 for TV - R82- - Sportback

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-



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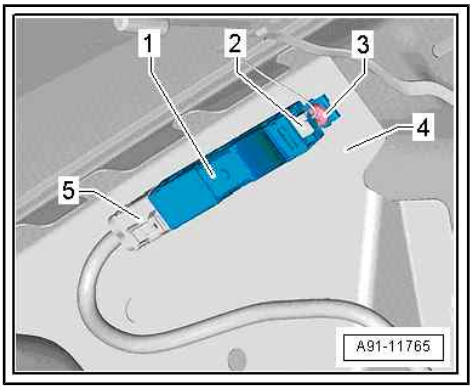
Aerial amplifier 1 for TV - R82- is located on rear lid (bottom right).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove rear lid trim (bottom) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing rear lid trim (bottom) .

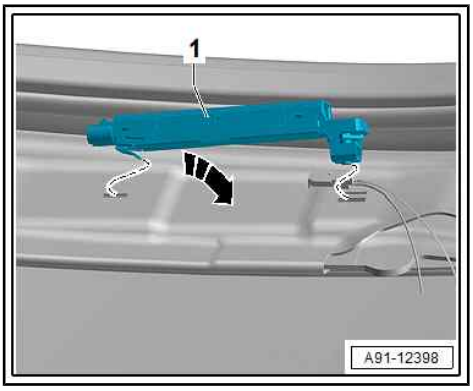
– Release and unplug connectors -2- and -5- at aerial amplifier 1 for TV - R82- -1-.
– Unscrew bolt -3- and remove aerial amplifier 1 for TV - R82- -1- from rear lid -4-.



Installing

Installation is carried out in reverse order; note the following:

– Engage aerial amplifier -1- in recesses (left side first) -arrow- and secure amplifier.
– Fit connectors and secure them.



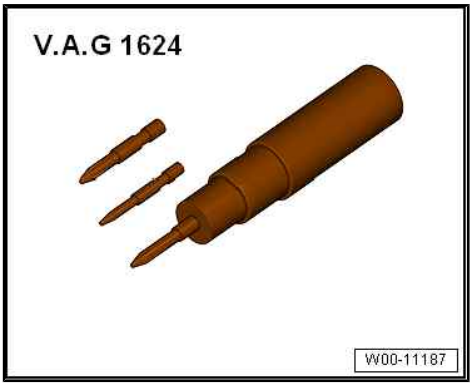
Tightening torques

- ⇒ “3.2.4 Overview of fitting locations - aerial systems, Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 62
- ⇒ “3.2.5 Overview of fitting locations - aerial systems, Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 64
- ⇒ “3.2.6 Overview of fitting locations - aerial systems, Sportback, Russia only”, page 66

3.3.10 Removing and installing aerial amplifier 1 for TV - R82- - Cabriolet

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-



Aerial amplifier 1 for TV - R82- is located behind side trim (right-side) on ledge.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove side trim (right-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - side trim .

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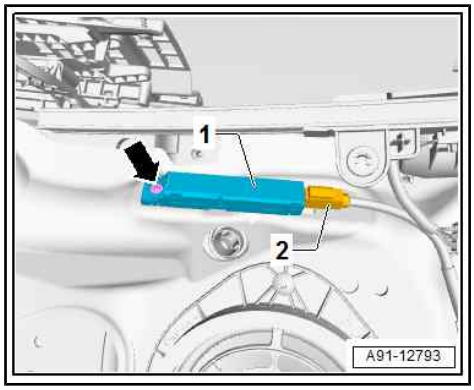
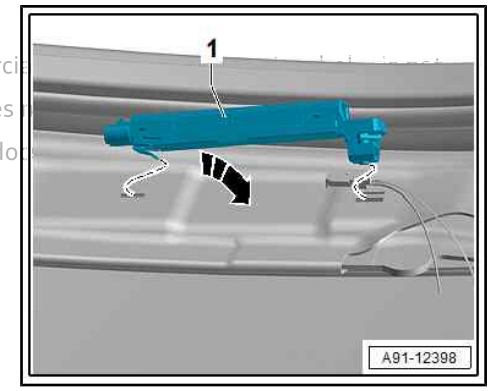
– Release and unplug connector -2- at aerial amplifier 1 for TV - R82- -1-.
– Unscrew bolt -arrow- and remove aerial amplifier 1 for TV - R82- -1-.



Installing

Installation is carried out in reverse order; note the following:

– Engage aerial amplifier 1 for TV - R82- -1- in recesses (left side first) -arrow- and secure amplifier.
– Fit connectors and secure them.



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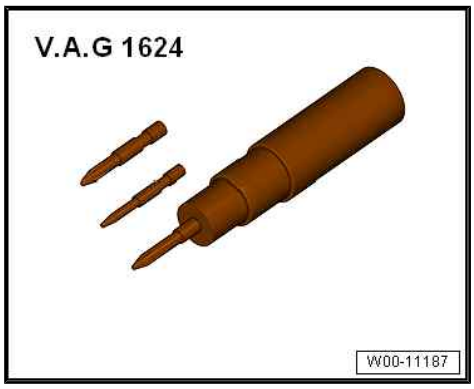
Tightening torques

- ⇒ “3.2.7 Overview of fitting locations - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 67
- ⇒ “3.2.8 Overview of fitting locations - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 69

3.3.11 Removing and installing aerial amplifier 2 for TV - R83- - Coupé

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-

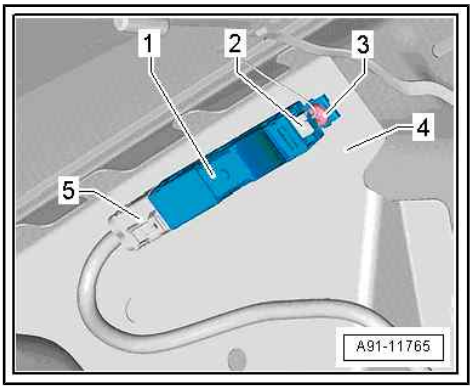


Aerial amplifier 2 for TV - R83- is located on C-pillar (bottom left).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove C-pillar trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing C-pillar trim .

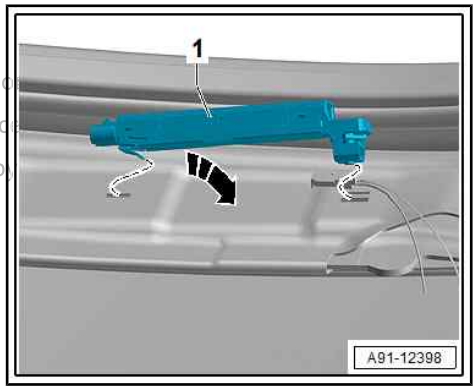
– Release and unplug connectors -2- and -5- at aerial amplifier 2 for TV - R83- -1-.
– Unscrew bolt -3- and remove aerial amplifier 2 for TV - R83- -1- from C-pillar -4-.



Installing

Installation is carried out in reverse order; note the following:

– Engage aerial amplifier -1- in recesses (left side first) -arrow- and secure amplifier.
– Fit connectors and secure them.



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with respect to the correctness of information in this document. Copyright b

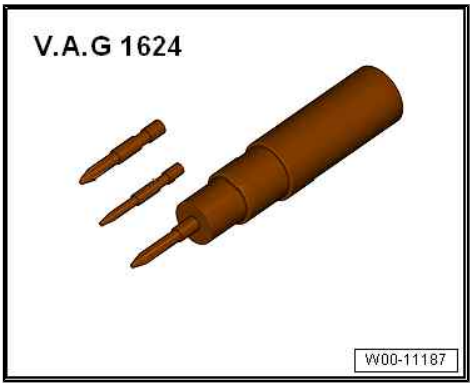
Tightening torques

- ⇒ “3.2.1 Overview of fitting locations - aerial systems, Coupé, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 55
- ⇒ “3.2.2 Overview of fitting locations - aerial systems, Coupé, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 58
- ⇒ “3.2.3 Overview of fitting locations - aerial systems, Coupé, Russia only”, page 60

3.3.12 Removing and installing aerial amplifier 2 for TV - R83- - Sportback

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-

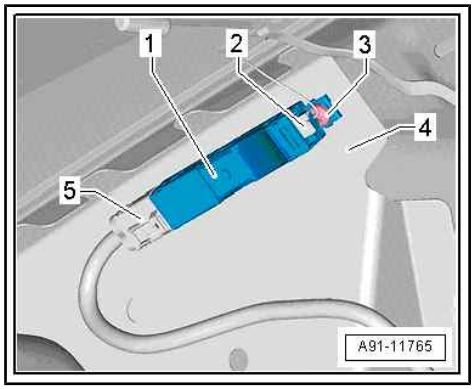


Aerial amplifier 2 for TV - R83- is located on rear lid (bottom left).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove rear lid trim (bottom) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing rear lid trim (bottom) .

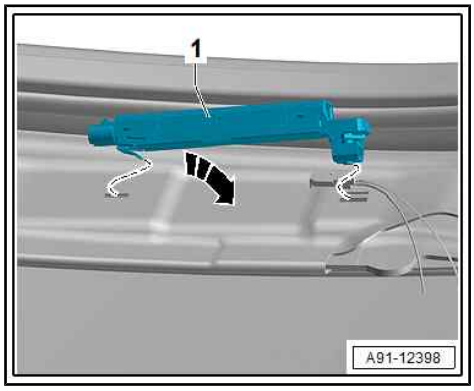
– Release and unplug connectors -2- and -5- at aerial amplifier 2 for TV - R83- -1-.
– Unscrew bolt -3- and remove aerial amplifier 2 for TV - R83- -1- from rear lid -4-.



Installing

Installation is carried out in reverse order; note the following:

– Engage aerial amplifier -1- in recesses (left side first) -arrow- and secure amplifier.
– Fit connectors and secure them.



Tightening torques

- ⇒ “3.2.4 Overview of fitting locations - aerial systems, Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 62
- ⇒ “3.2.5 Overview of fitting locations - aerial systems, Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 64
- ⇒ “3.2.6 Overview of fitting locations - aerial systems, Sportback, Russia only”, page 66

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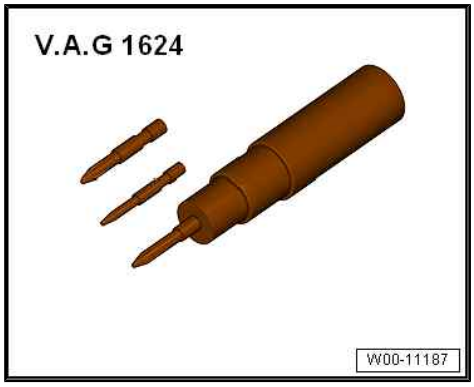
3.3.13 Removing and installing aerial amplifier 2 for TV - R83- - Cabriolet

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-



Aerial amplifier 2 for TV - R83- is located behind side trim (left-side) on ledge.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove side trim (left-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - side trim .

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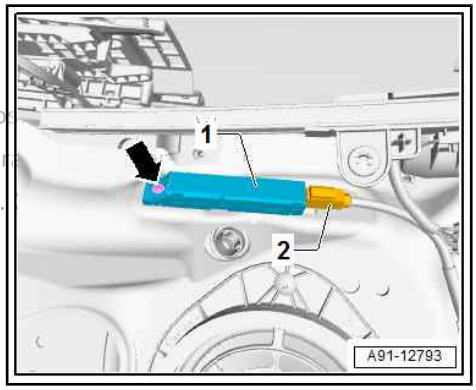
with respect to the correctness of information in this document.

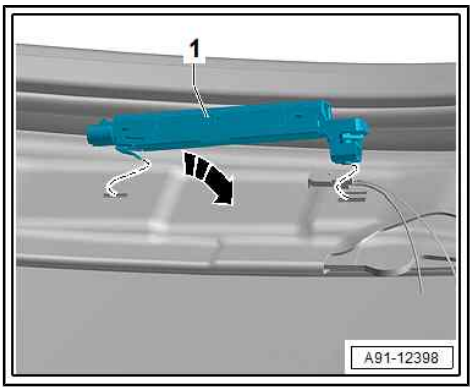
– Release and unplug connector -2- at aerial amplifier 2 for TV - R83- -1-.
– Unscrew bolt -arrow- and remove aerial amplifier 2 for TV - R83- -1-.



Installing

Installation is carried out in reverse order; note the following:

– Engage aerial amplifier 2 for TV - R83- -1- in recesses (left side first) -arrow- and secure amplifier.
– Fit connectors and secure them.



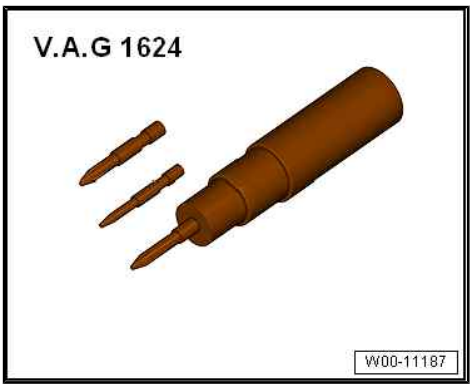
Tightening torques

- ⇒ “3.2.7 Overview of fitting locations - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 67
- ⇒ “3.2.8 Overview of fitting locations - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 69

3.3.14 Removing and installing aerial amplifier 3 for TV - R84- - Cabriolet

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-

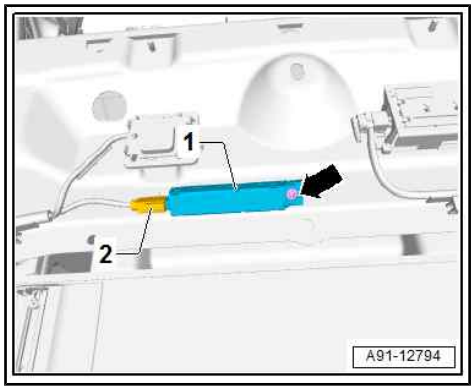


Aerial amplifier 3 for TV - R84- is located underneath trim on convertible roof compartment lid (centre).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove trim for convertible roof compartment lid ⇒ General body repairs, exterior; Rep. gr. 61 ; Convertible roof .

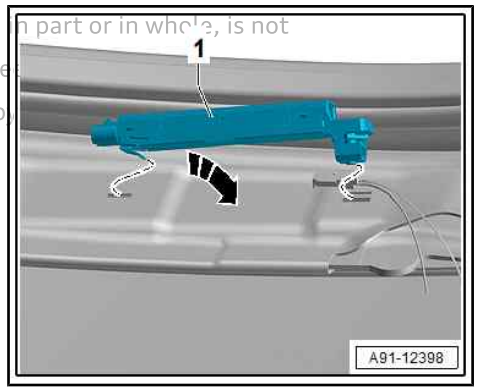
– Release and unplug connector -2- at aerial amplifier 3 for TV - R84- -1-.
– Unscrew bolt -arrow- and remove aerial amplifier 3 for TV - R84- -1- from convertible roof compartment lid.



Installing

Installation is carried out in reverse order; note the following:

– Engage aerial amplifier 3 for TV - R84- -1- in recesses (left side first) -arrow- and secure amplifier.
– Fit connectors and secure them.



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Tightening torques

- ⇒ “3.2.7 Overview of fitting locations - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 67
- ⇒ “3.2.8 Overview of fitting locations - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 69

3.4 Removing and installing window aerial suppression filter - C18-

⇒ “3.4.1 Removing and installing window aerial suppression filter C18 - Coupé”, page 86

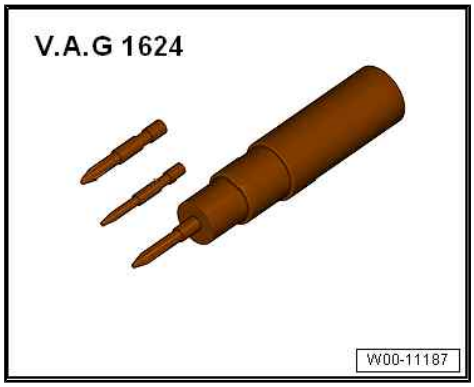
⇒ “3.4.2 Removing and installing window aerial suppression filter C18 - Sportback”, page 87

⇒ “3.4.3 Removing and installing window aerial suppression filter C18 - Cabriolet”, page 88

3.4.1 Removing and installing window aerial suppression filter - C18- - Coupé

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-

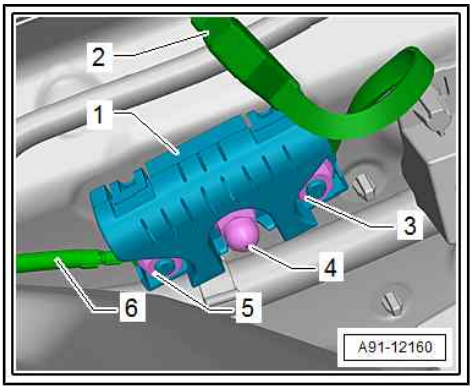


Window aerial suppression filter - C18- is located behind left C-pillar trim at centre of C-pillar.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove left C-pillar trim ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing C-pillar trim .
– Unscrew nuts -3- and -5- on window aerial suppression filter - C18- -1-.
– Disconnect wires -2- and -6- on window aerial suppression filter - C18- -1-.
– Unscrew nut -4- and remove window aerial suppression filter - C18- -1- from C-pillar.



Installing

Installation is carried out in reverse order; note the following:

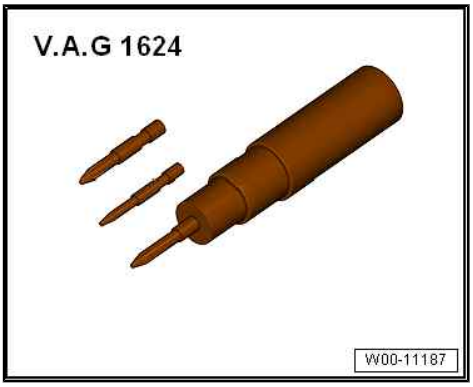
Tightening torques

- ⇒ “3.2.1 Overview of fitting locations - aerial systems, Coupé, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 55
- ⇒ “3.2.2 Overview of fitting locations - aerial systems, Coupé, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 58
- ⇒ “3.2.3 Overview of fitting locations - aerial systems, Coupé, Russia only”, page 60

3.4.2 Removing and installing window aerial suppression filter - C18- - Sportback

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-



The window aerial suppression filter - C18- is located behind the luggage compartment trim (left-side).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove service cover from luggage compartment side trim (left-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Exploded view - luggage compartment side trim .

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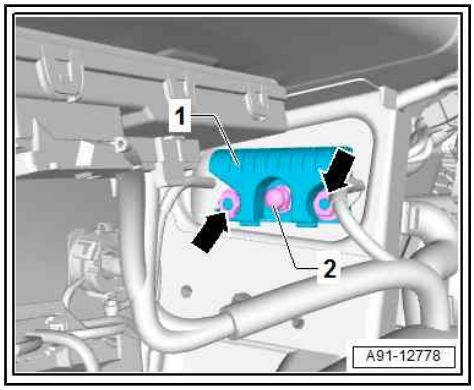
– Unscrew nuts -arrows- on window aerial suppression filter - C18- -1-.
– Disconnect wires on window aerial suppression filter - C18- -1- from mounting studs.
– Unscrew nut -2- and detach window aerial suppression filter - C18- -1-.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “3.2.4 Overview of fitting locations - aerial systems, Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 62
- ⇒ “3.2.5 Overview of fitting locations - aerial systems, Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 64
- ⇒ “3.2.6 Overview of fitting locations - aerial systems, Sportback, Russia only”, page 66

3.4.3 Removing and installing window aerial suppression filter - C18- - Cabriolet

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-

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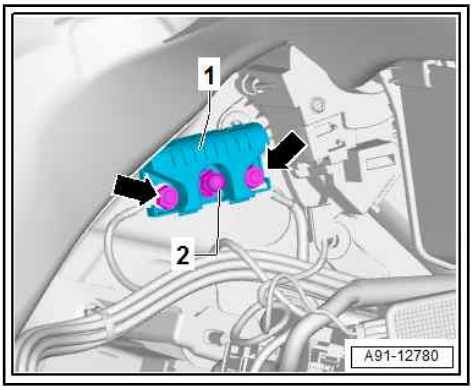
Window aerial suppression filter - C18- is located in luggage compartment (top left) behind luggage compartment side trim.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove luggage compartment side trim (left-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing luggage compartment side trim .

– Unscrew nuts -arrows- on window aerial suppression filter - C18- -1-.
– Disconnect wires on window aerial suppression filter - C18- -1- from mounting studs.
– Unscrew nut -2- and remove window aerial suppression filter - C18- -1-.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “3.2.7 Overview of fitting locations - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 67
- ⇒ “3.2.8 Overview of fitting locations - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 69

3.5 Removing and installing GPS aerial

⇒ “3.5.1 Removing and installing GPS aerial - Coupé/Sportback”, page 89

⇒ “3.5.2 Removing and installing GPS aerial - Cabriolet”, page 89

3.5.1 Removing and installing GPS aerial - Coupé/Sportback

GPS aerial - R50- is located in roof aerial - R216- .

– Removing and installing roof aerial - R216- ⇒ page 100

3.5.2 Removing and installing GPS aerial - Cabriolet

GPS aerial - R50- is located underneath trim on convertible roof compartment lid (centre left).

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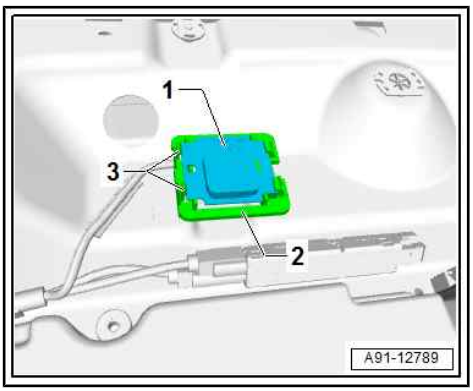
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove trim for convertible roof compartment lid ⇒ General body repairs, exterior; Rep. gr. 61 ; Convertible roof .
– Release retainers -3- on bracket -2-.
– Then guide GPS aerial - R50- -1- out of bracket -2- so that electrical connector is accessible.
– Release and unplug connector at GPS aerial - R50- -1-.



Installing

Installation is carried out in reverse sequence.

3.6 Removing and installing GSM aerial

⇒ “3.6.1 Removing and installing GSM aerial - Coupé/Sportback”, page 90

⇒ “3.6.2 Removing and installing GSM aerial - Cabriolet”, page 90

3.6.1 Removing and installing GSM aerial - Coupé/Sportback

Telephone aerial - R65- is located in roof aerial - R216- , 9ZE and EL0 and IW0 only.

– Removing and installing roof aerial - R216- ⇒ page 100

Telephone aerial - R65- is located under rear bumper cover (right-side) on body, 9ZE and EL3/IW1/IW3/IW5 only.

– Removing and installing bumper aerials ⇒ page 101

3.6.2 Removing and installing GSM aerial - Cabriolet

Telephone aerial - R65- is located underneath trim on convertible roof compartment lid (centre right) on vehicles without Audi connect (EL0) and without eCall/bCall (IW0) only.

On vehicles with Audi connect (EL3) or eCall/bCall (IW1/IW3/IW5), telephone aerial - R65- is located underneath bumper cover (rear) on body (right-side)
⇒ “3.13 Removing and installing bumper aerials”, page 101 .

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

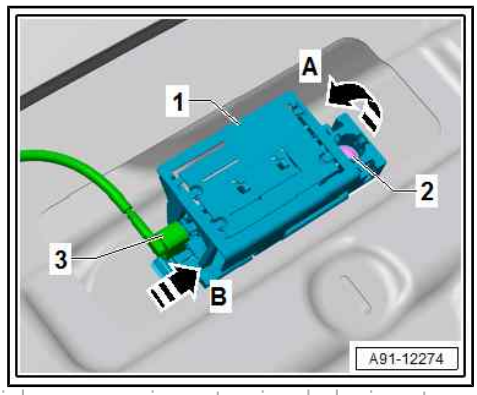
– Remove trim for convertible roof compartment lid ⇒ General body repairs, exterior; Rep. gr. 61 ; Convertible roof .

– Release and unplug connector -3- at telephone aerial - R65- -1-.

– Remove bolts -2- for telephone aerial - R65- -1-.

– First swivel telephone aerial - R65- -1- upwards -arrow A- on left side.

– Then slide telephone aerial - R65- to the left -arrow B- and take it out.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “3.2.7 Overview of fitting locations - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 67
- ⇒ “3.2.8 Overview of fitting locations - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 69

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3.7 Removing and installing satellite aerial - R170-

⇒ "3.7.1 Removing and installing satellite aerial R170 - Coupé/ Sportback", page 91

⇒ "3.7.2 Removing and installing satellite aerial R170 - Cabriolet", page 91

3.7.1 Removing and installing satellite aerial - R170- - Coupé/Sportback

Satellite aerial - R170- is located in roof aerial - R216- , QV8 only.

– Removing and installing roof aerial - R216- ⇒ page 100

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3.7.2 Removing and installing satellite aerial - R170- - Cabriolet

Satellite aerial - R170- is located in convertible roof compartment lid (rear centre).

Removing

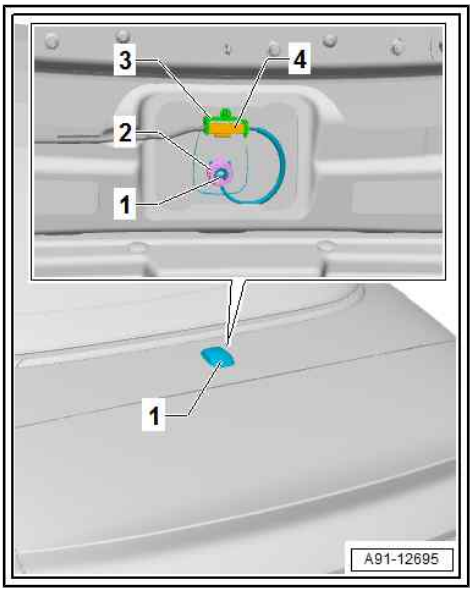
– Move convertible roof and convertible roof compartment lid to service position ⇒ General body repairs, exterior; Rep. gr. 61 ; Convertible roof .

– Push convertible roof compartment lip upwards until it engages.

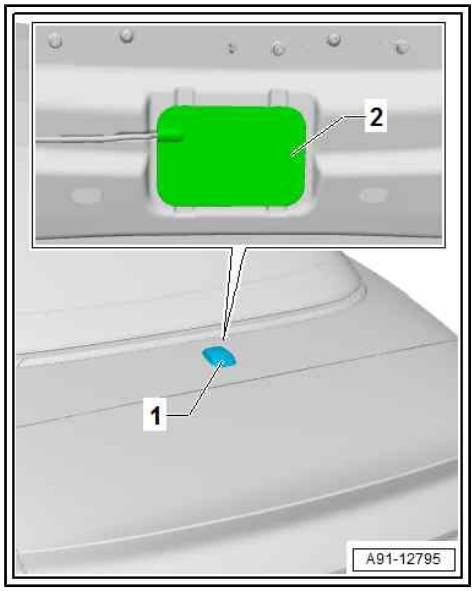
– Switch off ignition and all electrical equipment, and remove ignition key.

– Support convertible roof with a suitable piece of wood.

– Unclip cover -2- for satellite aerial - R170- -1- on inside of convertible roof compartment lid.



– Release and unplug electrical connector -3-.
– Unclip electrical connector -3- from retainer.
– Remove nut -2-.
– Detach satellite aerial - R170- -1- outwards from convertible roof compartment lid.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “3.2.7 Overview of fitting locations - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 67
- ⇒ “3.2.8 Overview of fitting locations - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 69

3.8 Removing and installing traffic data aerial

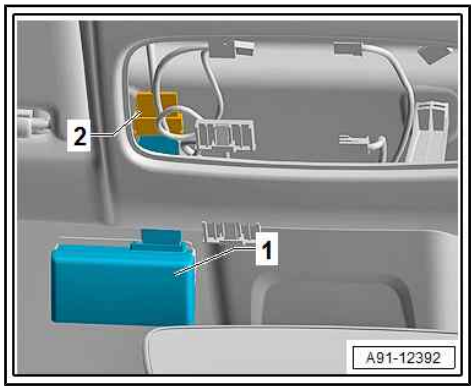
Traffic data aerial - R173- is located on top left of windscreen, ER5 only.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

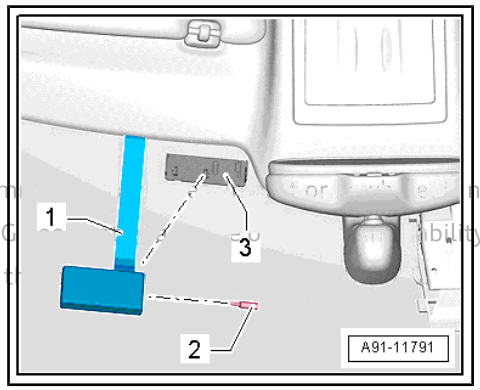
Electrical connectors -2- for traffic data aerial - R173- -1- are located behind the sun visor (left-side) on roof cross member. The ribbon cable -2- is routed along the roof cross member.

– Release and unplug connector -2-.



Removing traffic data aerial - R173- :

Traffic data aerial - R173- -1- is secured in bracket -3- by a locking element -2-. Bracket -3- is bonded to windscreen.



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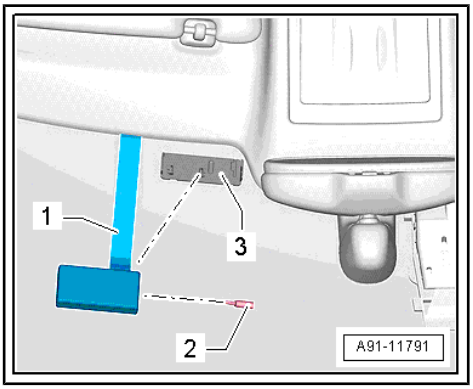
– Use small screwdriver to pull out locking element -2-.
– Pull traffic data aerial - R173- -1- out of bracket -3-.



Installing

Installation is carried out in reverse sequence.

3.9 Removing and installing dedicated short-range communication aerial

Dedicated short-range communication aerial - R269- is located in front centre of dash panel, ER5 only.

Removing

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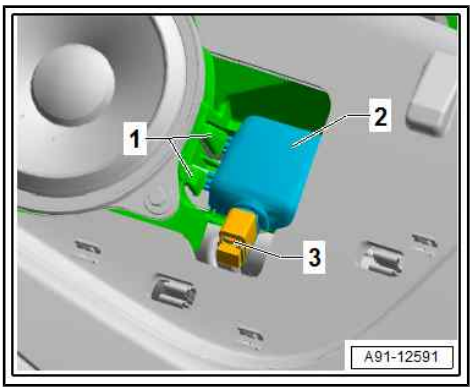
– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove centre defroster vent with loudspeaker trim ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel; Removing and installing centre defroster vent .
– Release catches -1-.
– Swivel dedicated short-range communication aerial - R269- -2- out of mounting in dash panel.
– Release and unplug connector -3-.



Installing

Installation is carried out in reverse sequence.

3.10 Removing and installing emergency call module aerial - R263-

⇒ “3.10.1 Removing and installing emergency call module aerial R263 - Coupé, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 94

⇒ “3.10.2 Removing and installing emergency call module aerial R263 - Coupé, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 95

⇒ “3.10.3 Removing and installing emergency call module aerial R263 - Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 95

⇒ “3.10.4 Removing and installing emergency call module aerial R263 - Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 96

⇒ “3.10.5 Removing and installing emergency call module aerial R263 - Coupé/Sportback, Russia only”, page 97

⇒ “3.10.6 Removing and installing emergency call module aerial R263 - Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 97

⇒ “3.10.7 Removing and installing emergency call module aerial R263 - Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 97

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3.10.1 Removing and installing emergency call module aerial - R263- - Coupé, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)

On vehicles without insulated glass (4GF/4GS), emergency call module aerial - R263- is located underneath dash panel at air duct/defroster intermediate piece; removing and installing ⇒ page 94 .

On vehicles with insulated glass (4GR/4GY), emergency call module aerial - R263- is located underneath rear shelf (centre); removing and installing ⇒ page 94 .

Removing on vehicles without insulated glass (4GF/4GS)

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove dash panel ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel; Exploded view - dash panel .

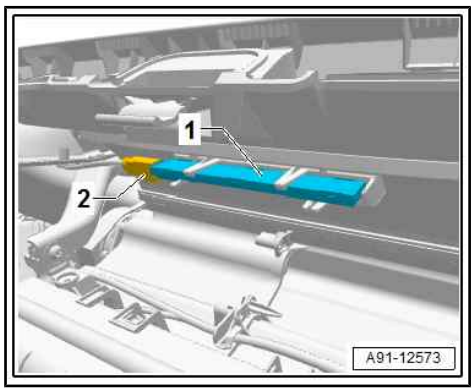
– Release and unplug connector -2-.

– Pull emergency call module aerial - R263- -1- out of mounting.

Removing on vehicles with insulated glass (4GR/4GY)

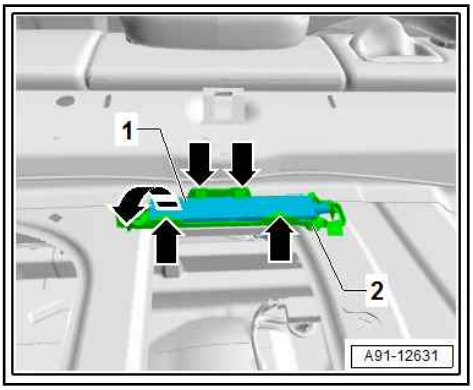
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove rear shelf ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim; Removing and installing rear shelf .



– Release and unplug connector.

– Unclip emergency call module aerial - R263- -1- from bracket -2- in direction of -arrow-.



Installing - all vehicles

Installation is carried out in reverse sequence.

3.10.2 Removing and installing emergency call module aerial - R263- - Coupé, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)

Emergency call module aerial - R263- is located underneath rear shelf (centre).

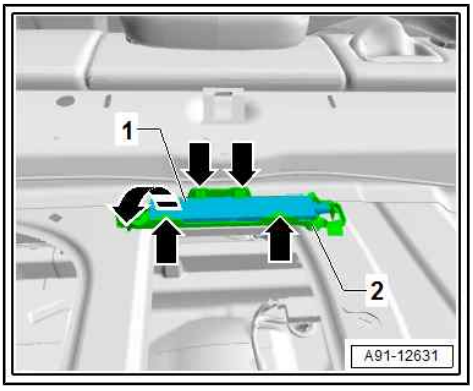
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove rear shelf ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim; Removing and installing rear shelf .

– Release and unplug connector.

– Unclip emergency call module aerial - R263- -1- from bracket -2- in direction of -arrow-.



Installing

Installation is carried out in reverse sequence.

3.10.3 Removing and installing emergency call module aerial - R263- - Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)

On vehicles without insulated glass (4GF/4GS), emergency call module aerial - R263- is located underneath dash panel at air duct/defroster intermediate piece; removing and installing ⇒ page 95 .

On vehicles with insulated glass (4GR/4GY), emergency call module aerial - R263- is located at belt guide (rear left); removing and installing ⇒ page 96.

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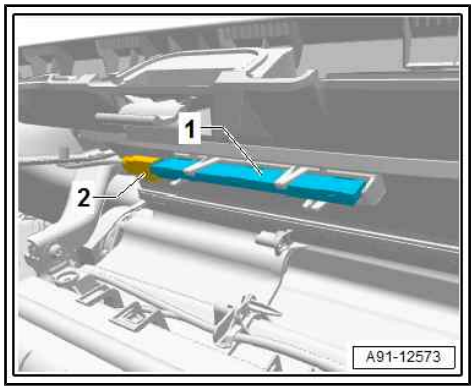
Removing on vehicles without insulated glass (4GF/4GS)

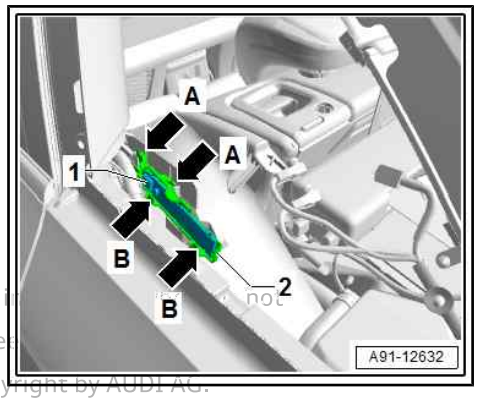
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove dash panel ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel; Exploded view - dash panel .
– Release and unplug connector -2-.
– Pull emergency call module aerial - R263- -1- out of mounting.



Removing on vehicles with insulated glass (4GR/4GY)

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove C-pillar trim (left-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing C-pillar trim .
– Release and unplug connector.
– Unclip bracket -2- -arrows A-.
– Unclip emergency call module aerial - R263- -1- from bracket -2- -arrows B-.



Installing - all vehicles

Installation is carried out in reverse sequence.

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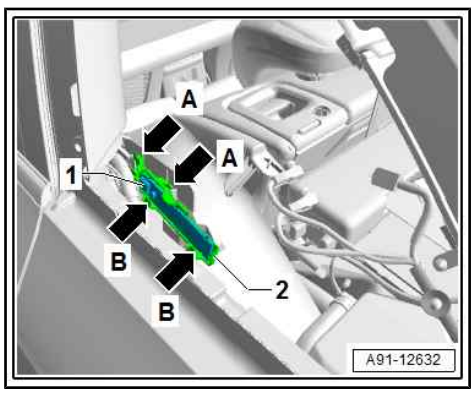
3.10.4 Removing and installing emergency call module aerial - R263- - Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)

Emergency call module aerial - R263- is located at belt guide (rear left).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove C-pillar trim (left-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing C-pillar trim .
– Release and unplug connector.
– Unclip bracket -2- -arrows A-.
– Unclip emergency call module aerial - R263- -1- from bracket -2- -arrows B-.



Installing

Installation is carried out in reverse sequence.

3.10.5 Removing and installing emergency call module aerial - R263- - Coupé/Sportback, Russia only

Emergency call module aerial - R263- is located in roof aerial - R216- .

– Removing and installing roof aerial - R216- ⇒ page 100

3.10.6 Removing and installing emergency call module aerial - R263- - Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)

Emergency call module aerial - R263- is located underneath dash panel at air duct/defroster intermediate piece.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove dash panel ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel; Exploded view - dash panel .

– Release and unplug connector -2-.

– Pull emergency call module aerial - R263- -1- out of mounting.

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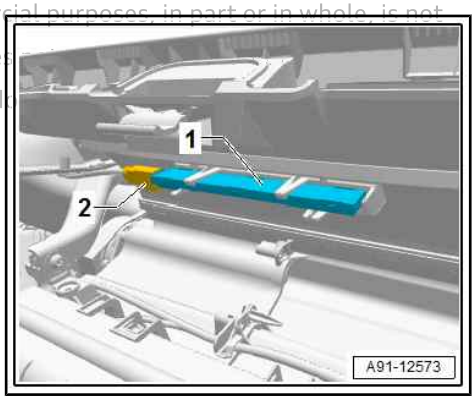
Installing

Installation is carried out in reverse sequence.



3.10.7 Removing and installing emergency call module aerial - R263- - Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)

Emergency call module aerial - R263- is located underneath rear seat bench at data bus diagnostic interface - J533- .

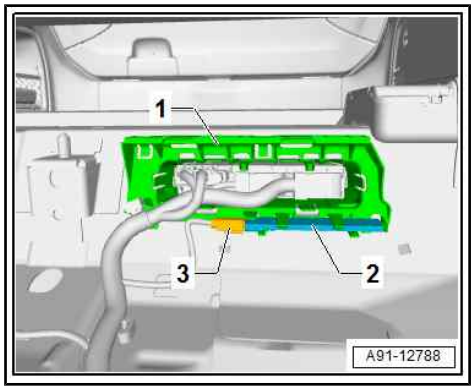
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove rear seat backrest ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing rear seat backrest .

Emergency call module aerial - R263- is clipped into bracket for emergency call module control unit and communication unit - J949- .

– Unclip emergency call module aerial - R263- -2- from bracket -1-.
– Release and unplug electrical connector -3-.



Installing

Installation is carried out in reverse sequence.

3.11 Removing and installing emergency call module aerial 2 - R322-

⇒ “3.11.1 Removing and installing emergency call module aerial 2 R322 - Coupé/Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 98

⇒ “3.11.2 Removing and installing emergency call module aerial 2 R322 - Coupé/Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 99

⇒ “3.11.4 Removing and installing emergency call module aerial 2 R322 - Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 99

⇒ “3.11.5 Removing and installing emergency call module aerial 2 R322 - Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 99

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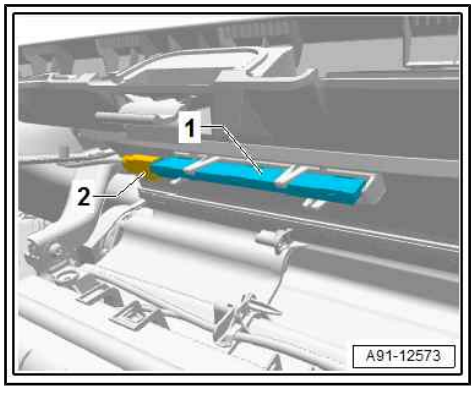
3.11.1 Removing and installing emergency call module aerial 2 - R322- - Coupé/Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)

Emergency call module aerial 2 - R322- is located underneath dash panel at air duct/defroster intermediate piece.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove dash panel ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel; Exploded view - dash panel .
– Release and unplug connector -2-.
– Pull emergency call module aerial - R263- -1- out of mounting.



Installing

Installation is carried out in reverse sequence.

3.11.2 Removing and installing emergency call module aerial 2 - R322- - Coupé/Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)

Emergency call module aerial 2 - R322- is located in roof aerial - R216- .

– Removing and installing roof aerial - R216- ⇒ page 100

3.11.3 Removing and installing emergency call module aerial 2 - R322- - Coupé/Sportback, Russia only

No emergency call module aerial 2 - R322- is fitted in the vehicle.

3.11.4 Removing and installing emergency call module aerial 2 - R322- - Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)

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Emergency call module aerial 2 - R322- is located underneath rear seat bench at data bus diagnostic interface - J533- .

Removing

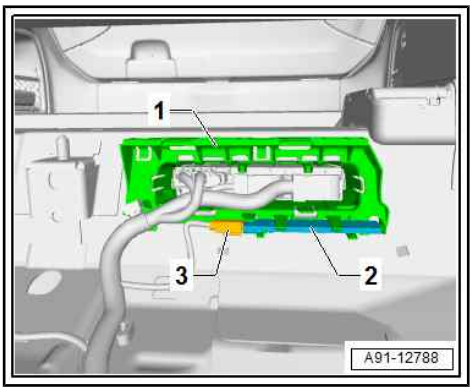
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove rear seat backrest ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing rear seat backrest .

Emergency call module aerial 2 - R322- is clipped into bracket for data bus diagnostic interface - J533- .

– Unclip emergency call module aerial 2 - R322- -2- from bracket -1-.

– Release and unplug electrical connector -3-.



Installing

Installation is carried out in reverse sequence.

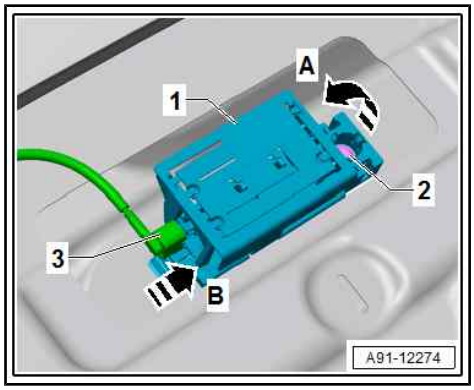
3.11.5 Removing and installing emergency call module aerial 2 - R322- - Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)

Emergency call module aerial 2 - R322- is located underneath trim on convertible roof compartment lid (centre right).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove trim for convertible roof compartment lid ⇒ General body repairs, exterior; Rep. gr. 61 ; Convertible roof .
– Release and unplug connector -3- at emergency call module aerial 2 - R322- -1-.
– Remove bolt -2- for emergency call module aerial 2 - R322- -1-.
– First swivel emergency call module aerial 2 - R322- -1- upwards -arrow A- on left side.
– Then slide emergency call module aerial 2 - R322- to the left -arrow B- and take it out.



Installing

Installation is carried out in reverse order; note the following:

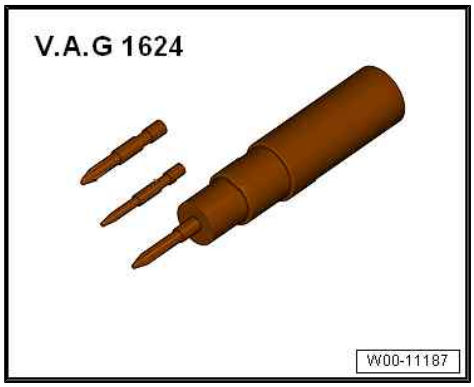
Tightening torques

- ⇒ “3.2.8 Overview of fitting locations - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 69

3.12 Removing and installing roof aerial

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-



The roof aerial - R216- has a maximum of four connections.

Depending on the equipment fitted and on the country-specific version, the roof aerial - R216- can include the following aerials:

- GPS aerial - R50-
- Telephone aerial - R65-
- Satellite aerial - R170-
- Auxiliary heater aerial - R182-
- Emergency call module aerial - R263-
- LTE aerial 1 - R297-
- Emergency call module aerial 2 - R322-

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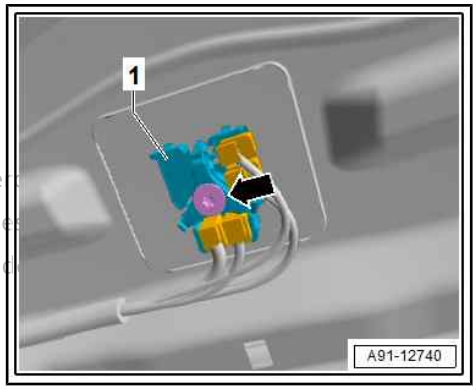
Aerial wires are plugged in directly at base of roof aerial - R216- .

Moulded headliner must be removed to remove roof aerial - R216- .

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove moulded headliner ⇒ General body repairs, interior; Rep. gr. 70 ; Roof trim panels; Removing and installing moulded headliner .
– Release and unplug connectors to aerial wires.
– Remove bolt -arrow-.
– Lift roof aerial - R216- -1- off roof.



Installing

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Installation is carried out in reverse order; note the following:

– Fit roof aerial - R216- onto roof and press on until it engages.

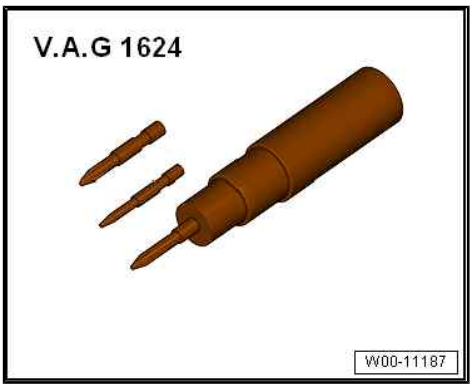
Tightening torques

- ⇒ “3.2.1 Overview of fitting locations - aerial systems, Coupé, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 55
- ⇒ “3.2.2 Overview of fitting locations - aerial systems, Coupé, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 58
- ⇒ “3.2.3 Overview of fitting locations - aerial systems, Coupé, Russia only”, page 60
- ⇒ “3.2.4 Overview of fitting locations - aerial systems, Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 62
- ⇒ “3.2.5 Overview of fitting locations - aerial systems, Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 64
- ⇒ “3.2.6 Overview of fitting locations - aerial systems, Sportback, Russia only”, page 66

3.13 Removing and installing bumper aerials

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-

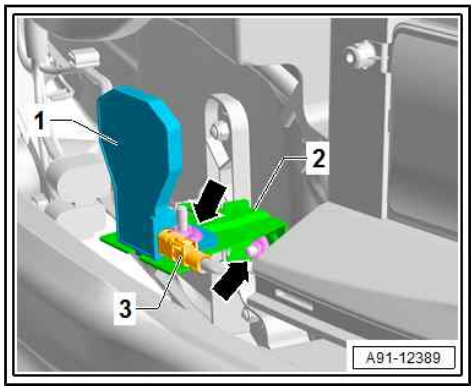


Different bumper aerials may be fitted depending on the vehicle’s equipment ⇒ page 50 .

Removing

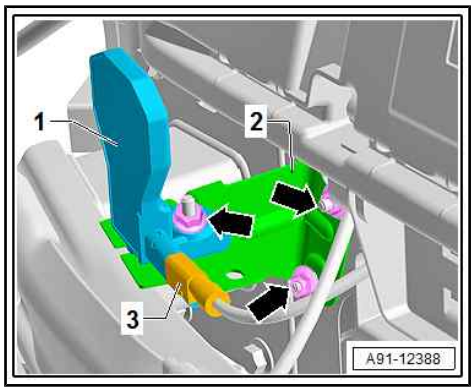
– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove rear bumper cover ⇒ General body repairs, exterior; Rep. gr. 63 ; Bumper (rear); Removing and installing bumper cover .

Bumper aerial (right-side)



- Release and unplug connector -3- for bumper aerial (right-side) -1-.
- Unscrew nut -arrow- for bumper aerial (right-side) -1-.
- Detach bumper aerial (right-side) -1- from bracket -2-.
- Remove nuts -arrow- for bracket -2-.
- Detach bracket -2- from body.

Bumper aerial (left-side)



- Release and unplug connector -3- for bumper aerial (left-side) -1-.
- Unscrew nut -arrow- for bumper aerial (left-side) -1-.
- Detach bumper aerial (left-side) -1- from bracket -2-.
- Remove nuts -arrows- for bracket -2-.
- Detach bracket -2- from body.

Installing

Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “3.2.1 Overview of fitting locations - aerial systems, Coupé, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 55
- ⇒ “3.2.2 Overview of fitting locations - aerial systems, Coupé, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 58
- ⇒ “3.2.3 Overview of fitting locations - aerial systems, Coupé, Russia only”, page 60
- ⇒ “3.2.4 Overview of fitting locations - aerial systems, Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 62
- ⇒ “3.2.5 Overview of fitting locations - aerial systems, Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 64
- ⇒ “3.2.6 Overview of fitting locations - aerial systems, Sportback, Russia only”, page 66
- ⇒ “3.2.7 Overview of fitting locations - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 67
- ⇒ “3.2.8 Overview of fitting locations - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 69

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3.14 Removing and installing LTE aerials

⇒ “3.14.1 Removing and installing LTE aerials - Coupé/Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 103

⇒ “3.14.2 Removing and installing LTE aerials - Coupé/Sportback, all except Russia, from model year 2019 onwards with

connect package plus (IV1 to IV8), vehicles without eCall/bCall (IW0)", page 103

⇒ "3.14.3 Removing and installing LTE aerials - Coupé/Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8), vehicles with eCall/bCall (IW3/IW5)", page 103

⇒ "3.14.4 Removing and installing LTE aerials - Coupé, Russia only", page 104

⇒ "3.14.5 Removing and installing LTE aerials - Sportback, Russia only", page 104

⇒ "3.14.6 Removing and installing LTE aerials - Cabriolet, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)", page 105

⇒ "3.14.7 Removing and installing LTE aerials - Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8), vehicles without eCall/bCall (IW0)", page 105

⇒ "3.14.8 Removing and installing LTE aerials - Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8), vehicles with eCall/bCall (IW3/IW5)", page 106

3.14.1 Removing and installing LTE aerials - Coupé/Sportback, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)

LTE aerial 1 - R297- is located in roof aerial - R216- .

– Removing and installing roof aerial - R216- ⇒ page 100

LTE aerial 2 - R306- is located under rear bumper cover (left-side).

– Removing and installing bumper aerials ⇒ page 101

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3.14.2 Removing and installing LTE aerials - Coupé/Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8), vehicles without eCall/bCall (IW0)

LTE aerial 1 - R297- is located in roof aerial - R216- .

– Removing and installing roof aerial - R216- ⇒ page 100

LTE aerial 2 - R306- is located under rear bumper cover (left-side).

– Removing and installing bumper aerials ⇒ page 101

3.14.3 Removing and installing LTE aerials - Coupé/Sportback, all except Russia, from model year 2019 onwards with connect package plus (IV1 to IV8), vehicles with eCall/bCall (IW3/IW5)

LTE aerial 1 - R297- is located under rear bumper cover (left-side).

– Removing and installing bumper aerials ⇒ page 101

LTE aerial 2 - R306- is located underneath dash panel at air duct/ defroster intermediate piece.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

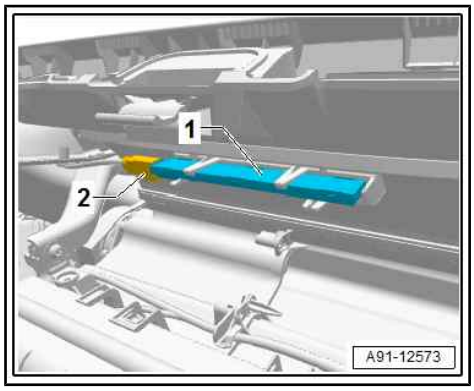
– Remove dash panel ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel; Exploded view - dash panel .

– Release and unplug connector -2-.

– Pull LTE aerial 2 - R306- -1- out of mounting.

Installing

Installation is carried out in reverse sequence.



3.14.4 Removing and installing LTE aerials - Coupé, Russia only

LTE aerial 1 - R297- is located under rear bumper cover (left-side).

– Removing and installing bumper aerials ⇒ page 101

LTE aerial 2 - R306- is located under rear shelf.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

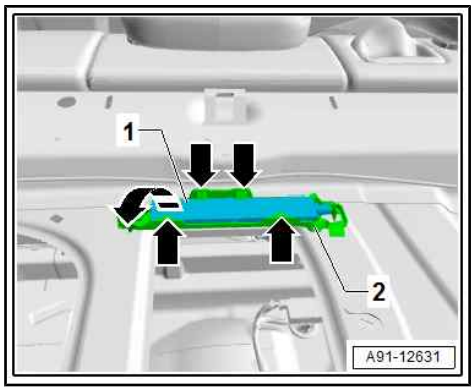
– Remove rear shelf ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim; Removing and installing rear shelf .

– Release and unplug connector.

– Unclip LTE aerial 2 - R306- -1- from bracket -2- in direction of -arrow-.

Installing

Installation is carried out in reverse sequence.



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3.14.5 Removing and installing LTE aerials - Sportback, Russia only

LTE aerial 1 - R297- is located under rear bumper cover (left-side).

– Removing and installing bumper aerials ⇒ page 101

LTE aerial 2 - R306- is located at belt guide (rear left).

Removing

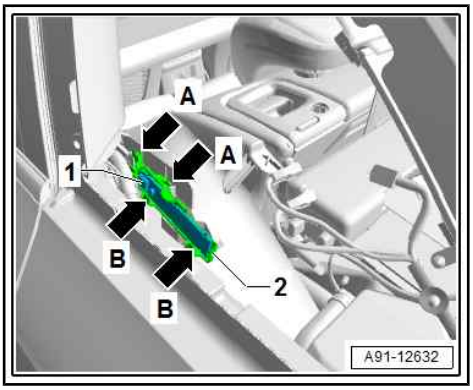
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove C-pillar trim (left-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Removing and installing C-pillar trim .

– Release and unplug connector.

– Unclip bracket -2- -arrows A-.

– Unclip LTE aerial 2 - R306- -1- from bracket -2- -arrows B-.



Installing

Installation is carried out in reverse sequence.

3.14.6 Removing and installing LTE aerials - Cabriolet, all except Russia, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)

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LTE aerial 2 - R306- is located under rear bumper cover (left-side).

– Removing and installing bumper aerials ⇒ page 101

LTE aerial 1 - R297- is located underneath trim on convertible roof compartment lid (centre).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

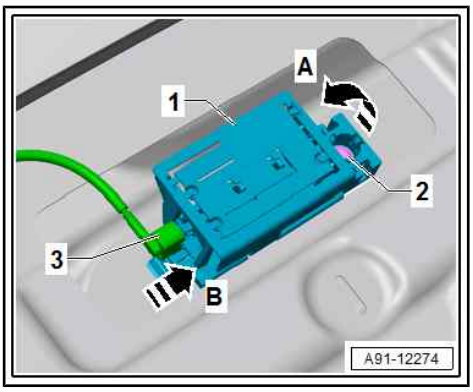
– Remove trim for convertible roof compartment lid ⇒ General body repairs, exterior; Rep. gr. 61 ; Convertible roof .

– Release and unplug electrical connector -3- at LTE aerial 1 - R297- -1-.

– Remove bolt -2- for LTE aerial 1 - R297- -1-.

– First swivel LTE aerial 1 - R297- -1- upwards -arrow A- on left side.

– Then slide LTE aerial 1 - R297- to the left -arrow B- and take it out.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

◆ ⇒ “3.2.7 Overview of fitting locations - aerial systems, Cabriolet, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 67

3.14.7 Removing and installing LTE aerials - Cabriolet, from model year 2019 on-

wards with connect package plus (IV1 to IV8), vehicles without eCall/bCall (IW0)

LTE aerial 2 - R306- is located under rear bumper cover (left-side).

– Removing and installing bumper aerials ⇒ page 101

LTE aerial 1 - R297- is located underneath trim on convertible roof compartment lid (centre).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove trim for convertible roof compartment lid ⇒ General body repairs, exterior; Rep. gr. 61 ; Convertible roof .

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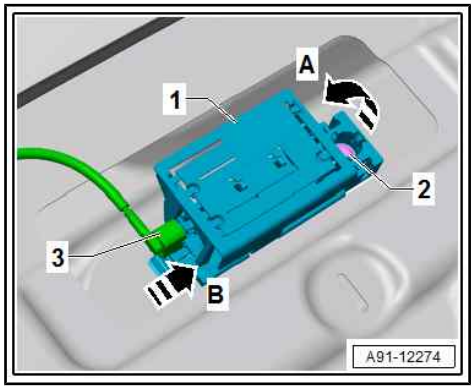
– Release and unplug electrical connector -3- at LTE aerial 1 - R297- -1-.

– Remove bolt -2- for LTE aerial 1 - R297- -1-.

– First swivel LTE aerial 1 - R297- -1- upwards -arrow A- on left side.

– Then slide LTE aerial 1 - R297- to the left -arrow B- and take it out.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

◆ ⇒ “3.2.8 Overview of fitting locations - aerial systems, Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 69

3.14.8 Removing and installing LTE aerials - Cabriolet, from model year 2019 onwards with connect package plus (IV1 to IV8), vehicles with eCall/bCall (IW3/ IW5)

LTE aerial 1 - R297- is located under rear bumper cover (left-side).

– Removing and installing bumper aerials ⇒ page 101

LTE aerial 2 - R306- is located underneath dash panel at air duct/ defroster intermediate piece.

Removing

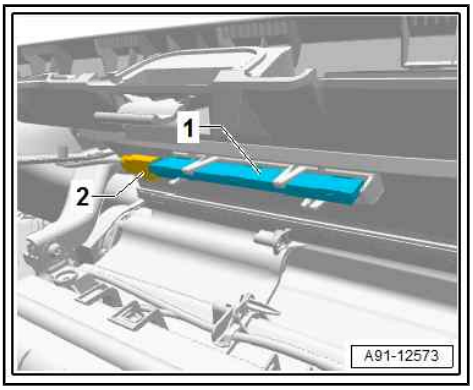
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove dash panel ⇒ General body repairs, interior; Rep. gr. 70 ; Dash panel; Exploded view - dash panel .

– Release and unplug connector -2-.
– Pull LTE aerial 2 - R306- -1- out of mounting.

Installing

Installation is carried out in reverse sequence.



3.15 Removing and installing near field communication control unit - J1169-

Special tools and workshop equipment required

♦ Removal tool - T40388-

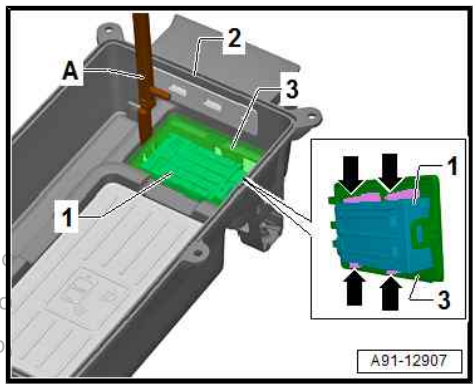
Near field communication control unit - J1169- is located in the centre console storage compartment.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

Note

Illustration shows storage compartment without centre console.



– Swivel near field communication control unit - J1169- -1- out of storage compartment -2- together with bracket -3-.
– To do so, carefully press sealing lip on bracket -3- to side by inserting removal tool - T40388- -A- as shown.
– This disengages lug on bracket -3-, which then engages in groove on removal tool - T40388- -A-.
– Using removal tool - T40388- -A-, pull near field communication control unit - J1169- -1- and bracket -3- vertically upwards and out of storage compartment.
– Release and unplug connectors at near field communication control unit - J1169- .
– Press lugs -arrows- and detach near field communication control unit - J1169- -1- from bracket -3-.

Installing

Installation is carried out in reverse sequence.

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4 Telephone system

⇒ “4.1 Layout - telephone”, page 108

⇒ “4.2 Overview of fitting locations - telephone system”, page 116

⇒ “4.3 Exploded view - microphone unit”, page 117

⇒ “4.4 Removing and installing microphone unit in front roof module R164 ”, page 120

⇒ “4.5 Removing and installing control unit for seat belt microphone”, page 121

⇒ “4.6 Removing and installing aerial amplifier for mobile telephone R86 ”, page 122

⇒ “4.7 Removing and installing telephone bracket R126 ”, page 124

4.1 Layout - telephone

⇒ “4.1.1 Layout - telephone, Bluetooth hands-free system, 9ZX”, page 108

⇒ “4.1.2 Layout - telephone, Audi phone box, 9ZE”, page 111

⇒ “4.1.3 Layout - telephone, Audi phone box/Audi connect, 9ZE/EL3”, page 113

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4.1.1 Layout - telephone, Bluetooth hands-free system, 9ZX

The control unit 1 for information electronics - J794- with microphone unit in front roof module - R164- is fitted and serves solely as a hands-free system. The mobile telephone - R54- is connected via Bluetooth.

The aerial for Bluetooth - R152- is fitted in the control unit 1 for information electronics - J794- .

9ZX - Bluetooth hands-free system in control unit 1 for information electronics - J794-

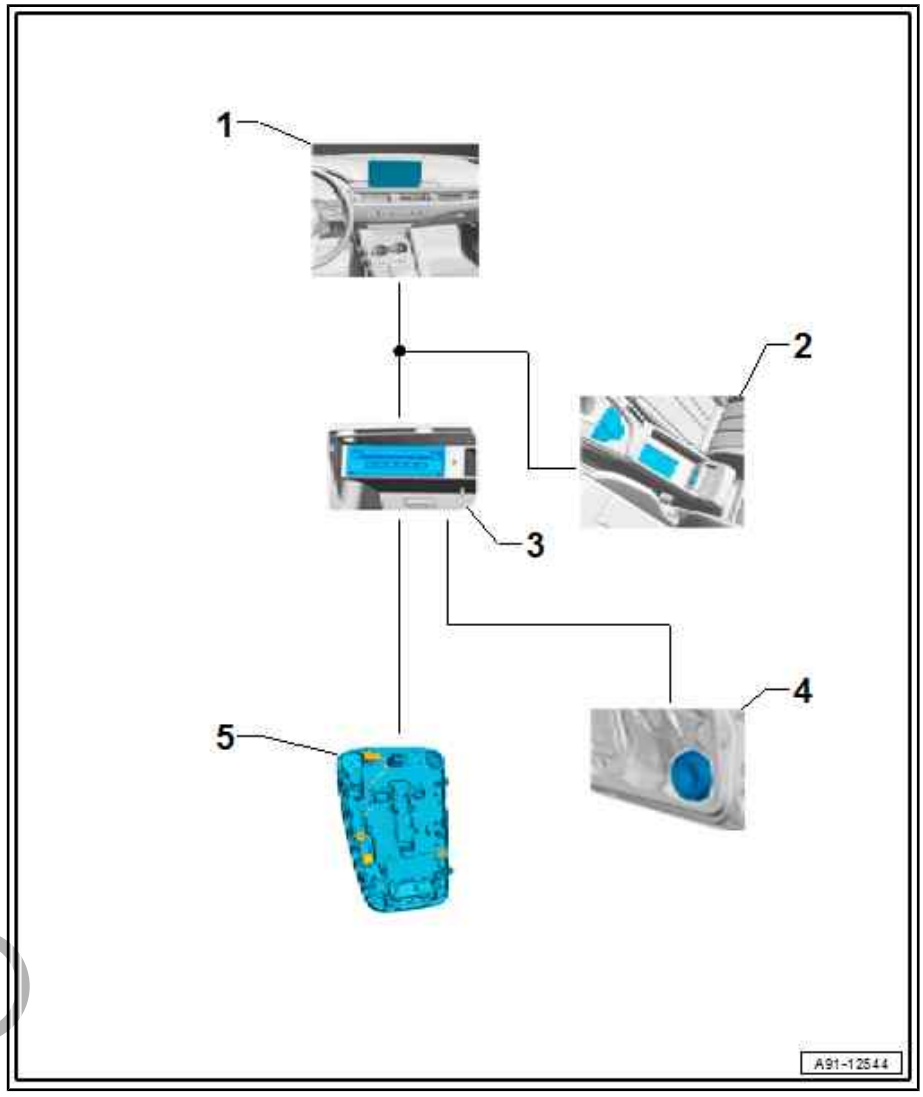
1 - Display unit for front information display and operating unit control unit - J685- in dash panel (centre)

2 - Multimedia system operating unit - E380- in centre console

3 - Control unit 1 for information electronics - J794- with aerial for Bluetooth - R152- in glove box

4 - Sound systems

5 - Microphone unit in front roof module - R164- in front interior light - W1-



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Aerials

9ZX - Bluetooth hands-free system without Audi connect, without emergency call EL0/IW0:

- No telephone aerial - R65- is fitted
- No LTE aerials (-R297- / -R306-) are fitted

9ZX - Bluetooth hands-free system with Audi connect, without emergency call EL3/IW0:

- No telephone aerial - R65- is fitted
- LTE aerial 1 - R297- is fitted in roof aerial - R216- /underneath rear bumper cover (left-side)/in convertible roof compartment lid.
- LTE aerial 2 - R306- is fitted under rear bumper cover (left-side)

Overview of aerials

1 - Control unit 1 for information electronics - J794-

2 - Not fitted

3 - Not fitted

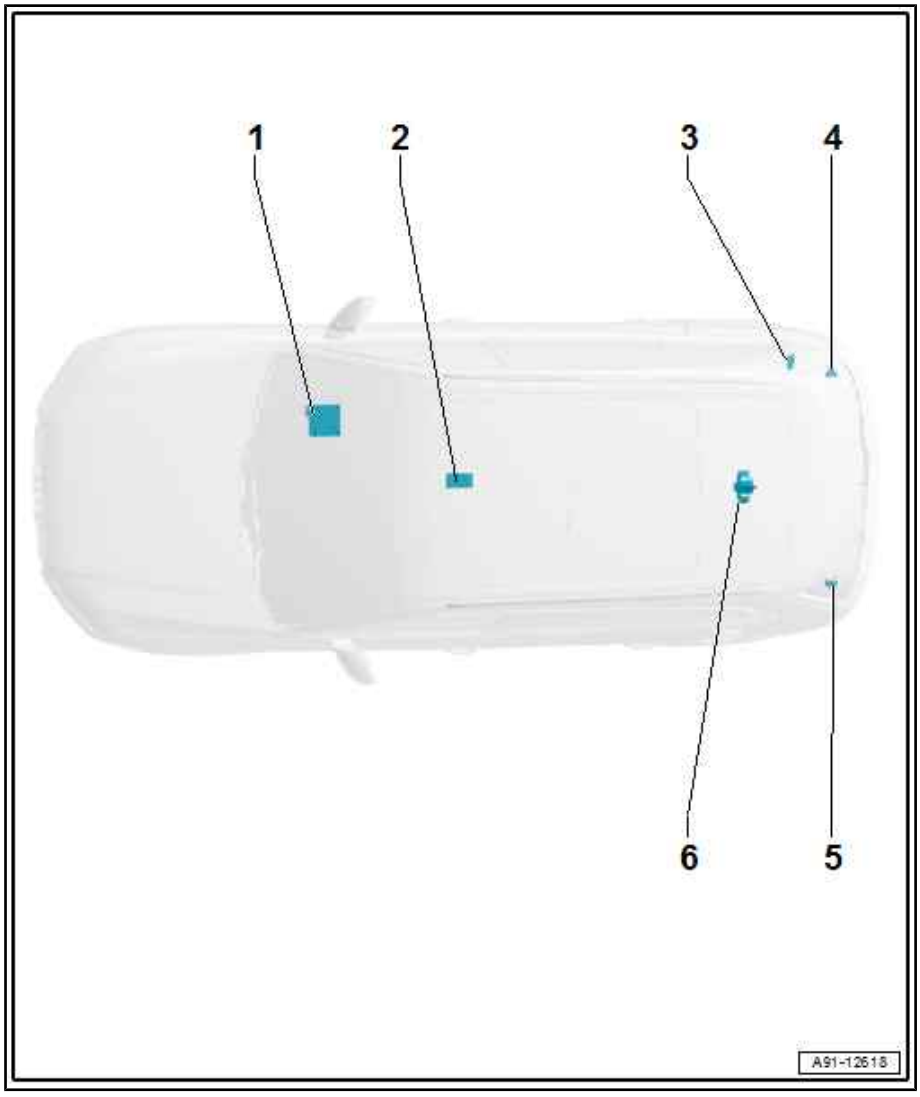
4 - Not fitted

5 - Bumper aerial (left-side)

- ❑ LTE aerial 2 - R306- , IV0/IW0

6 - LTE aerial 1 - R297- , IV0/IW0

- ❑ In roof aerial - R216- , Coupé/Sportback
- ❑ In convertible roof compartment lid, Cabriolet



Removing and installing aerials ⇒ page 55

Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

Repairing aerial wiring ⇒ Electrical system; Rep. gr. 97 ; Repairing aerial wires .

Notes on Bluetooth technology

A standardised radio connection system (Bluetooth technology) is used to transmit data between the control unit 1 for information electronics - J794- and the mobile telephone - R54- . The range of the radio wave connection is approx. 10 m.

Notes on MOST bus

In addition to the CAN bus, the fibre optic data bus “MOST bus” is used.

A fibre optic cable is used. The fibre optic cables are fitted in corrugated tubes for protection.

Renew the complete fibre optic cable whenever possible.

The end faces of the connectors must not become dirty.

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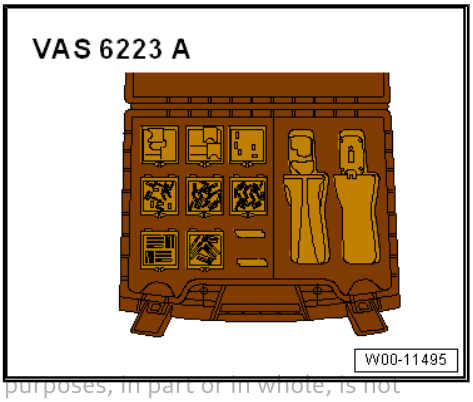
If connectors are unplugged: fit a protective cap for cable connector - VAS 6223/9- .

When installing the fibre optic cables, be sure to observe the minimum bending radius of 25 mm. Do not crush or kink the fibre optic cables.

Repairing fibre optic cables ⇒ page 1 .



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4.1.2 Layout - telephone, Audi phone box, 9ZE

The telephone bracket - R126- (Audi phone box) is fitted in the centre console. The system is operated using the MMI infotainment system or the mobile telephone - R54- .

Microphones for the microphone unit in front roof module - W1- are integrated in the front interior light - R164- . One of these microphones (front left microphone - R140-) is connected directly to the control unit 1 for information electronics - J794- . On IW3, with data bus diagnostic interface - J533- .

The connection to the mobile phone network is established via the telephone aerial - R65- .

The aerial connection is located at the aerial amplifier for mobile telephone - R86- .

9ZE - Audi phone box

1 - Telephone aerial - R65- in roof aerial - R216- /convertible roof compartment lid

2 - Display unit for front information display and operating unit control unit - J685- in dash panel (centre)

3 - CAN bus

4 - Multimedia system operating unit - E380- in centre console

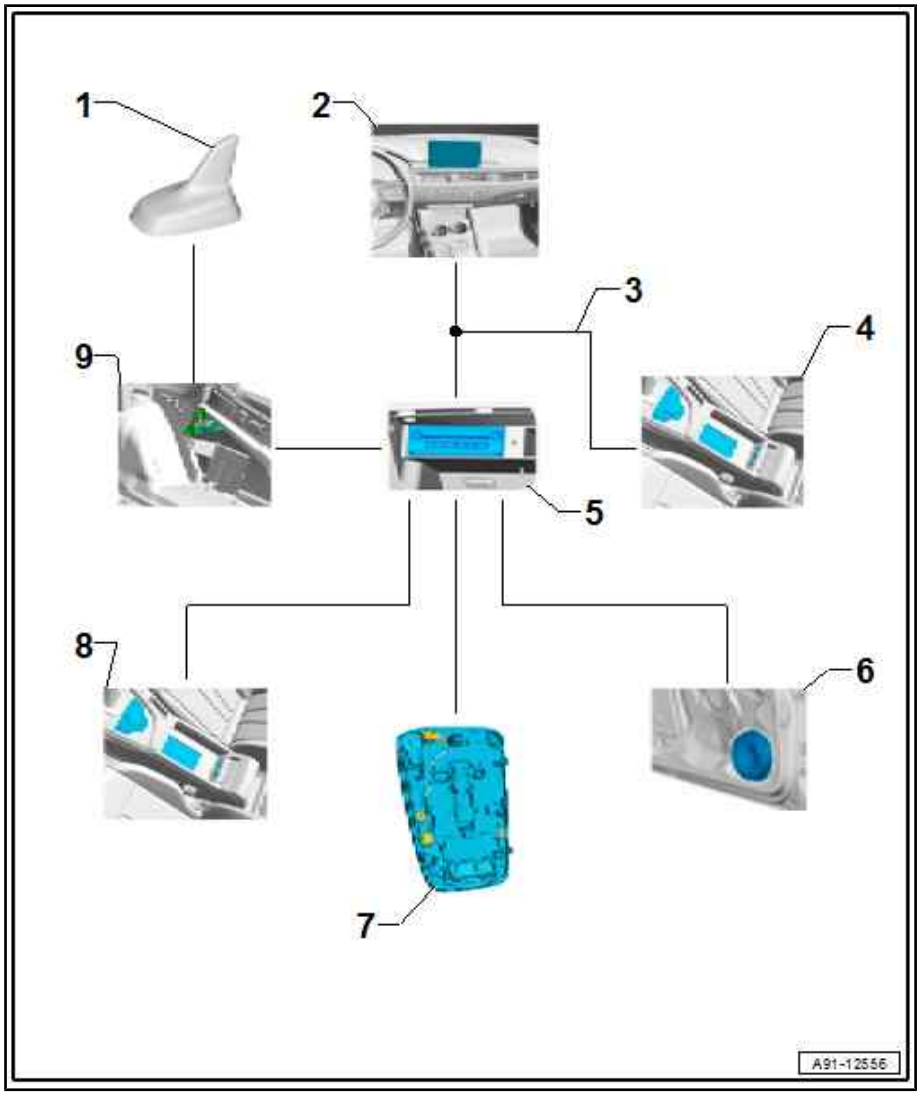
5 - Control unit 1 for information electronics - J794- in glove box

6 - Sound systems

7 - Microphone unit in front roof module - R164- in front interior light - W1-

8 - Telephone bracket - R126- with mobile telephone - R54- in centre console storage compartment

9 - Aerial amplifier for mobile telephone - R86- in luggage compartment (rear right)



Aerials

9ZE - Audi phone box without Audi connect, without emergency call EL0/IW0:

- Telephone aerial - R65- is fitted in roof aerial - R216- /in convertible roof compartment lid
- No LTE aerials (-R297- / -R306-) are fitted

Overview of aerials

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1 - Control unit 1 for information electronics - J794-

2 - Telephone bracket - R126-

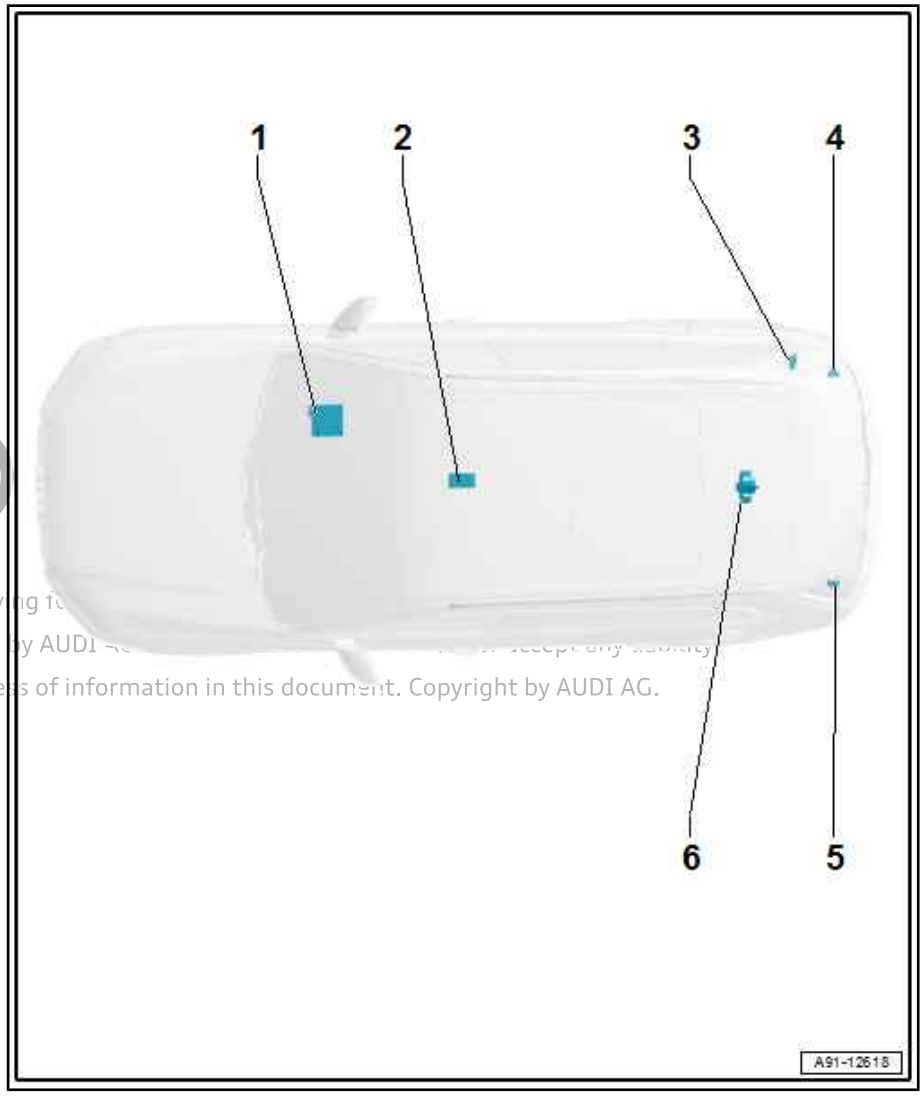
3 - Aerial amplifier for mobile telephone - R86-

4 - Not fitted

5 - Not fitted

6 - Telephone aerial - R65-

- ❑ In roof aerial - R216- , Coupé/Sportback
- ❑ In convertible roof compartment lid, Cabriolet



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Removing and installing aerials ⇒ page 55

Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

Repairing aerial wiring ⇒ Electrical system; Rep. gr. 97 ; Repairing aerial wires .

Notes on Bluetooth technology

A standardised radio connection system (Bluetooth technology) is used to transmit data between the control unit 1 for information electronics - J794- and the mobile telephone - R54- .

An additional transmitter and receiver unit with aerial for Bluetooth - J794- is fitted in control unit 1 for information electronics - R152- .

The range of the radio wave connection is approx. 10 m.

4.1.3 Layout - telephone, Audi phone box/Audi connect, 9ZE/EL3

The telephone bracket - R126- (Audi phone box) is fitted in the centre console. The system is operated using the MMI infotainment system or the mobile telephone - R54- .

Microphones for the microphone unit in front roof module - W1- are integrated in the front interior light - R164- . One of these microphones (front left microphone - R140-) is connected directly

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to the control unit 1 for information electronics - J794- . On IW3, with data bus diagnostic interface - J533- .

The connection to the mobile phone network is established via the telephone aerial - R65- .

The aerial connection is located at the aerial amplifier for mobile telephone - R86- .

For data transfer, two LTE aerials (LTE aerial 1 - R297- / LTE aerial 2 - R306-) are fitted and connected to the control unit 1 for information electronics - J794- .

9ZE/EL3 - Audi phone box/Audi connect

1 - LTE aerial 1 - R297- in roof aerial - R216- /convertible roof compartment lid

2 - Display unit for front information display and operating unit control unit - J685- in dash panel (centre)

3 - Multimedia system operating unit - E380- in centre console

4 - CAN bus

5 - Control unit 1 for information electronics - J794- in glove box

6 - Telephone bracket - R126- with mobile telephone - R54-

7 - Aerial amplifier for mobile telephone - R86- in luggage compartment (rear right)

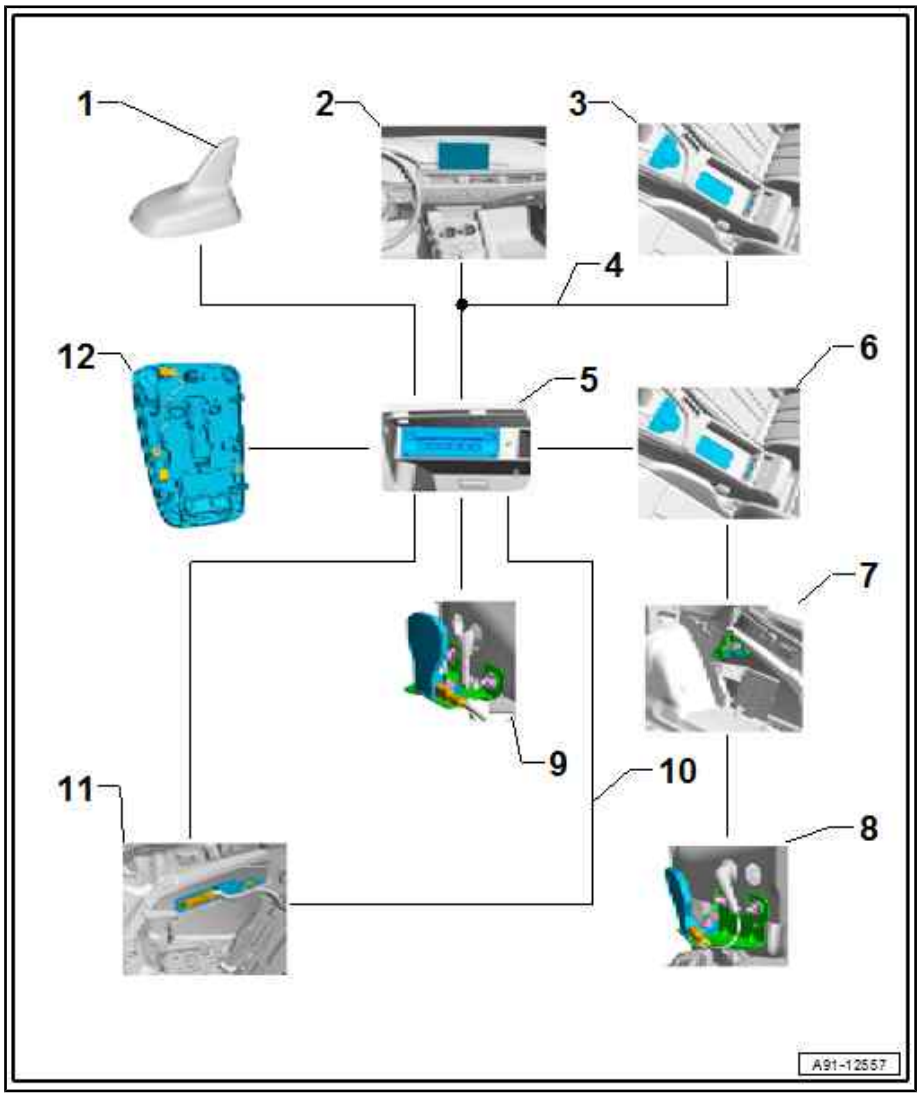
8 - Telephone aerial - R65- on bumper (right-side)

9 - LTE aerial 2 - R306- on bumper (left-side)

10 - MOST bus

11 - Digital sound package control unit - J525- in luggage compartment (rear left)

12 - Microphone unit in front roof module - R164- in front interior light - W1-



Aerials

9ZE - Audi phone box and Audi connect without emergency call EL3/IW0:

- Telephone aerial - R65- is fitted under rear bumper cover (right-side)
- LTE aerial 1 - R297- is fitted in roof aerial - R216- /underneath rear bumper cover (left-side)/in convertible roof compartment lid

♦ LTE aerial 2 - R306- is fitted underneath rear bumper cover (left-side)/underneath rear shelf (centre)

Overview of aerials

1 - Control unit 1 for information electronics - J794-

2 - Telephone bracket - R126-

3 - Aerial amplifier for mobile telephone - R86-

4 - Bumper aerial (right-side)

- ❑ Telephone aerial - R65-

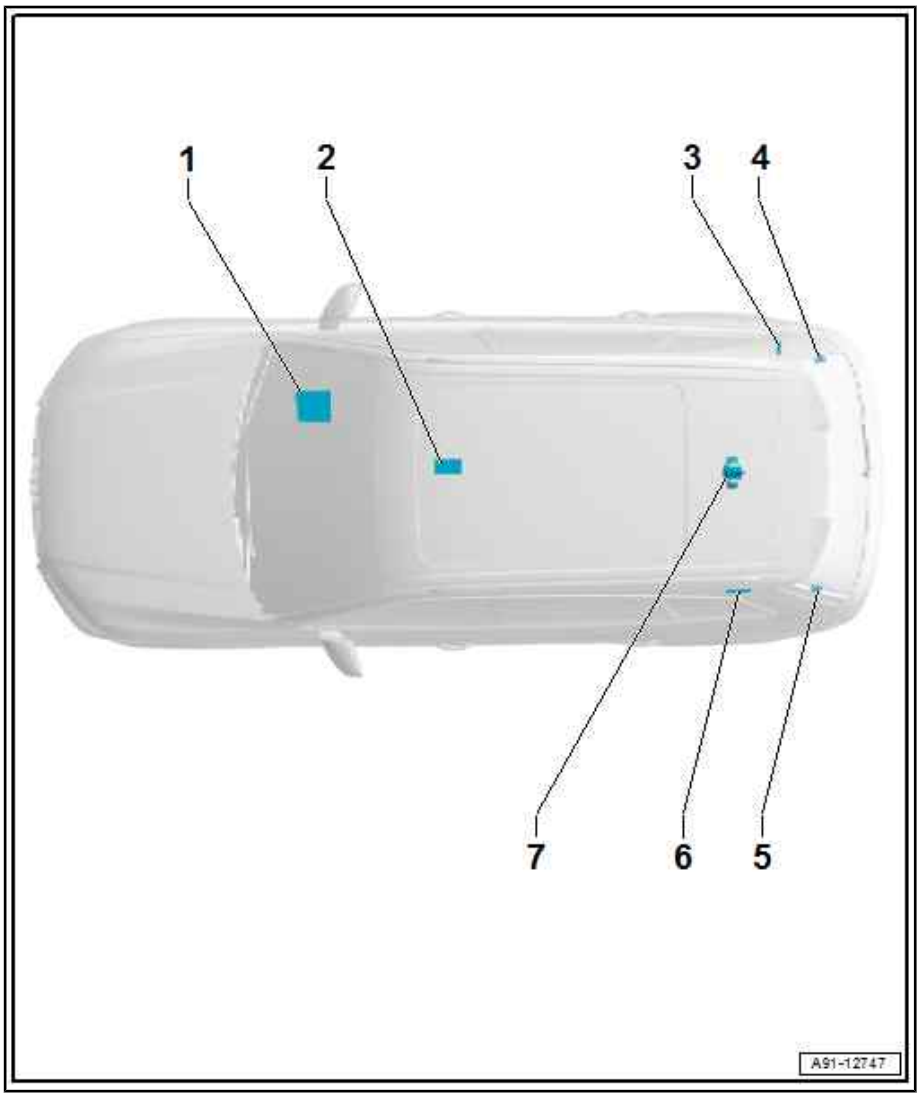
5 - Bumper aerial (left-side)

- ❑ LTE aerial 2 - R306- , IV0/IW0

6 - Not fitted

7 - LTE aerial 1 - R297- , IV0/IW0

- ❑ In roof aerial - R216- , Coupé/Sportback
- ❑ In convertible roof compartment lid (centre), Cabriolet



Removing and installing aerials ⇒ page 55

Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

Repairing aerial wiring ⇒ Electrical system; Rep. gr. 97 ; Repairing aerial wires .

Notes on Bluetooth technology

A standardised radio connection system (Bluetooth technology) is used to transmit data between the control unit 1 for information electronics - J794- and the mobile telephone - R54- .

An additional transmitter and receiver unit with aerial for Bluetooth - J794- is fitted in control unit 1 for information electronics - R152- .

The range of the radio wave connection is approx. 10 m.

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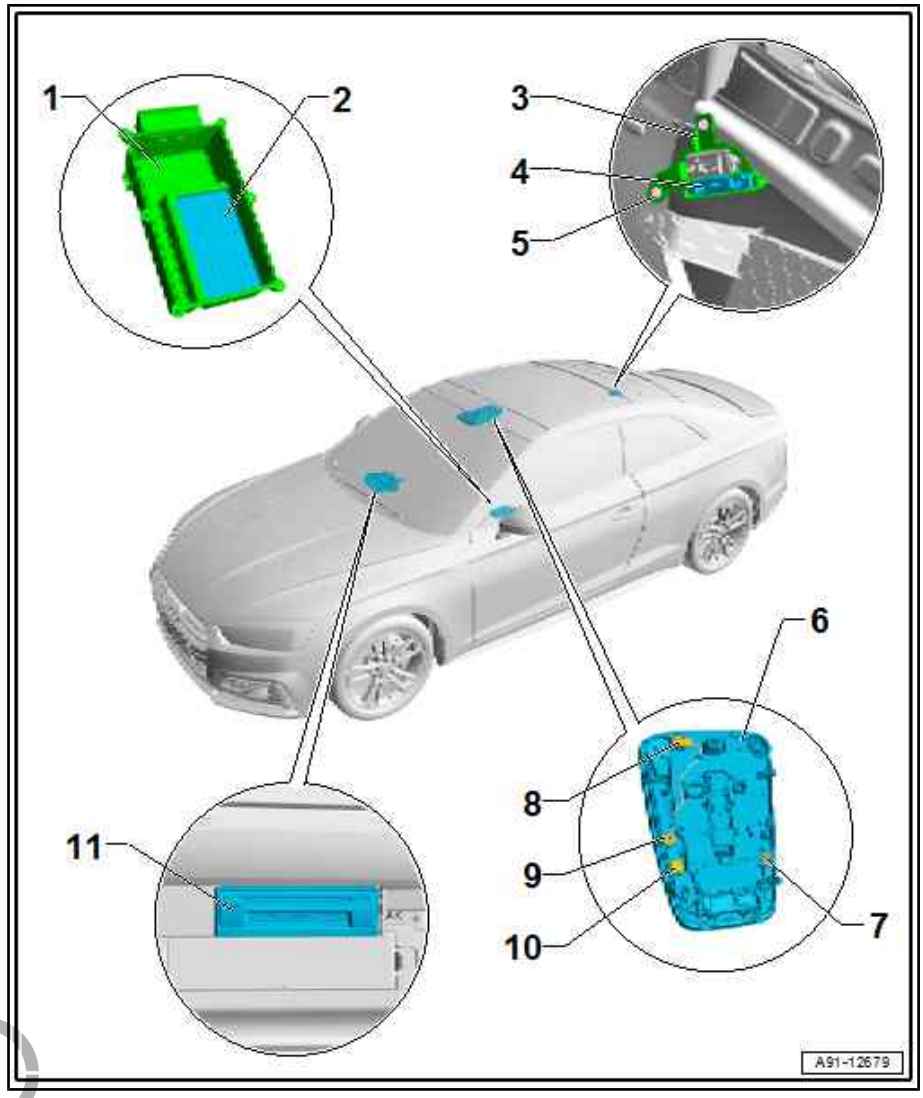
4.2 Overview of fitting locations - telephone system

Note

The fitting locations are shown on a Coupé model. The fitting locations are the same for other vehicle versions.



1 - Centre console storage compartment

- ❑ Removing and installing ⇒ General body repairs, interior; Rep. gr. 68 ; Centre console; Exploded view - centre console

2 - Telephone bracket - R126-

- ❑ Removing and installing ⇒ page 124

3 - Bracket

4 - Aerial amplifier for mobile telephone - R86-

- ❑ Behind luggage compartment side trim (right-side)
- ❑ ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- ❑ Removing and installing (Coupé/Sportback) ⇒ page 122
- ❑ Removing and installing (Cabriolet) ⇒ page 123

5 - Nut

- ❑ 2x
- ❑ 3 Nm

6 - Front interior light - W1-

- ❑ Removing and installing ⇒ Electrical system; Rep. gr. 96 ; Controls; Removing and installing interior light/reading light (front)

7 - Front right microphone - R141-

- ❑ 4-pin connector - T4- , black
- ❑ Removing and installing ⇒ page 120

8 - 4-pin connector - T4dc- , black

9 - Internal microphone - R74-

- ❑ Removing and installing ⇒ page 120

10 - Front left microphone - R140-

- ❑ 4-pin connector - T4- , red
- ❑ Removing and installing ⇒ page 120

11 - Control unit 1 for information electronics - J794-

- ❑ In glove box

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- ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- Removing and installing ⇒ page 10

4.3 Exploded view - microphone unit

⇒ “4.3.1 Exploded view - microphone unit, Coupé/Sportback”, page 117

⇒ “4.3.2 Exploded view - microphone unit, Cabriolet”, page 118

4.3.1 Exploded view - microphone unit, Coupé/Sportback

One of the microphones (internal microphone - R74-) is connected directly to the digital sound package control unit - J525- . The other microphones are connected to the control unit 1 for information electronics - J794- .

On IW1/IW3, front left microphone - R140- is connected to data bus diagnostic interface - J533- and is looped through control unit 1 for information electronics - J794- .

1 - Front interior light - W1-

- Removing and installing ⇒ Electrical system; Rep. gr. 96 ; Controls; Removing and installing interior light/reading light (front)

2 - 4-pin connector - T4dc- , black

3 - Internal microphone - R74-

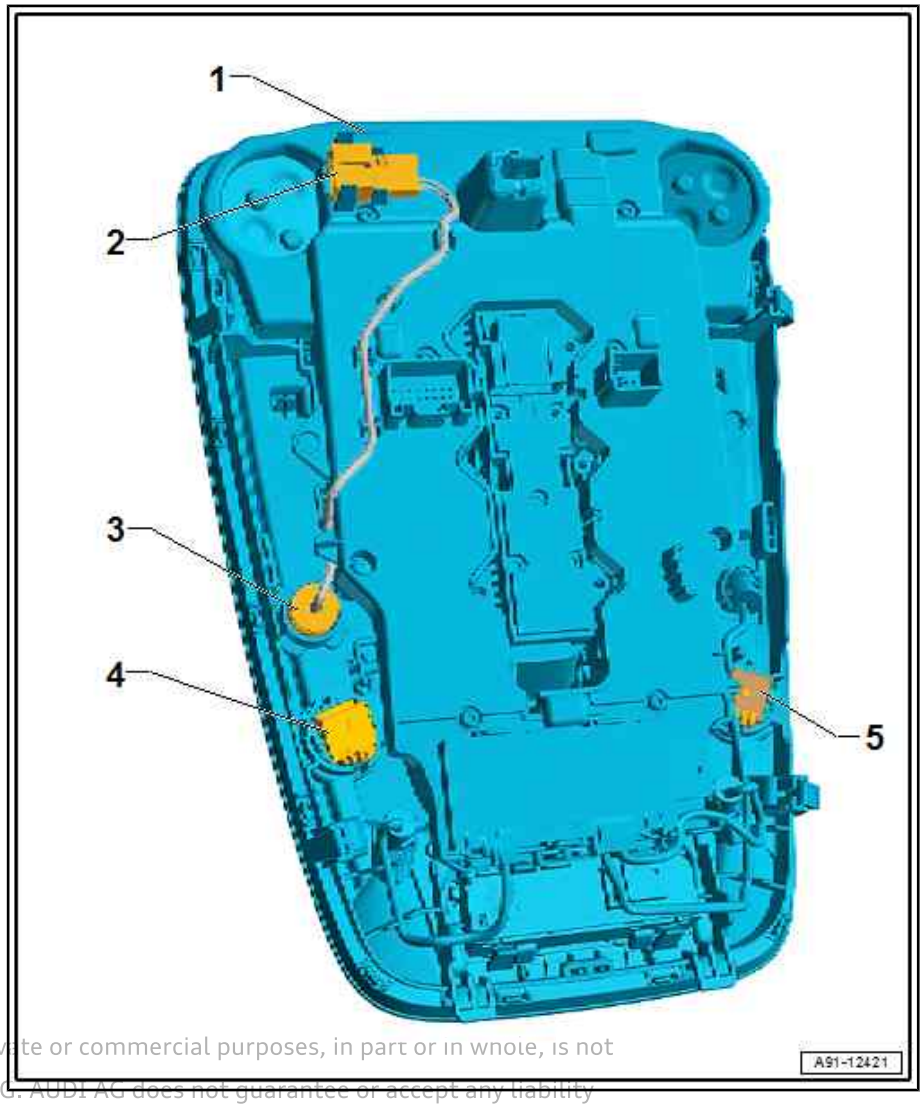
- Removing and installing ⇒ page 120

4 - Front right microphone - R141-

- 4-pin connector - T4- , black
- Removing and installing ⇒ page 120

5 - Front left microphone - R140-

- 4-pin connector - T4- , red
- Removing and installing ⇒ page 120



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Removing and installing microphone unit in front roof module - R164- ⇒ page 120

4.3.2 Exploded view - microphone unit, Cabriolet

Microphone unit consists of microphone unit in front roof module - R164- and control unit for seat belt microphone - J886- with seat belt microphones.

The microphone unit in front roof module - R164- is fitted in the front interior light - W1- . There are up to two microphones installed (depending on equipment version).

One of the microphones (internal microphone - R74-) is connected directly to the digital sound package control unit - J525- . The other microphone is connected to control unit 1 for information electronics - J794- / control unit for seat belt microphone - J886- .

The microphone unit in front roof module - R164- in the front interior light - W1- can only be renewed as a complete unit. It is not possible to renew individual microphones.

On IW3, front left microphone - R140- is connected to data bus diagnostic interface - J533- and is looped through control unit 1 for information electronics - J794- .

1 - Microphone unit in front roof module - R164-

- ❑ Removing and installing ⇒ page 121

2 - Seat belt microphones (right-side)

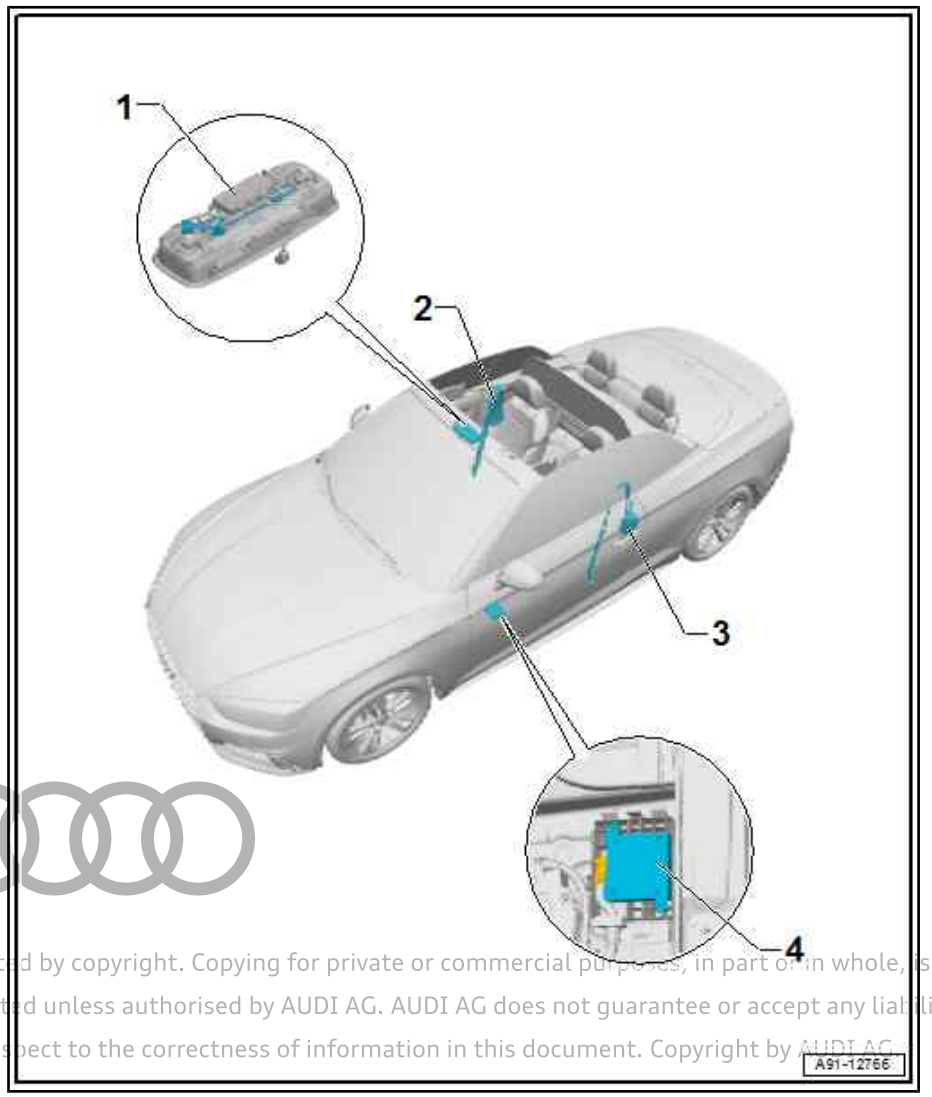
- ❑ Cannot be renewed separately
- ❑ ⇒ General body repairs, interior; Rep. gr. 69 ; Seat belts; Removing and installing three-point seat belt (front)

3 - Seat belt microphones (left-side)

- ❑ Cannot be renewed separately
- ❑ ⇒ General body repairs, interior; Rep. gr. 69 ; Seat belts; Removing and installing three-point seat belt (front)

4 - Control unit for seat belt microphone - J886-

- ❑ Pin assignment ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- ❑ Removing and installing ⇒ page 121



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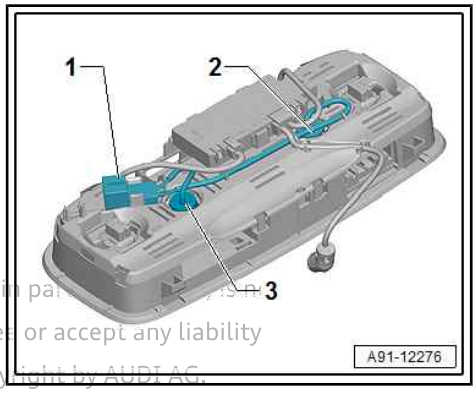
Microphone unit in front roof module - R164-



1 - 4-pin connector - T4t-

2 - Front left microphone - R140- (grey) to control unit 1 for information electronics - J794- / control unit for seat belt microphone - J886-

3 - Internal microphone - R74- , black, to digital sound package control unit - J525-

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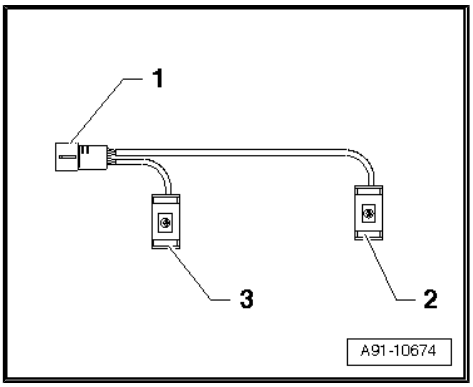
Pin assignment



1 - 4-pin connector - T4t-

1 - Microphone 1 (front left microphone - R140-) to control unit 1 for information electronics - J794- / control unit for seat belt microphone - J886-

2 - Microphone 1 (front left microphone - R140-) to control unit 1 for information electronics - J794- / control unit for seat belt microphone - J886-

3 - Microphone 2, internal microphone - R74- to digital sound package control unit - J525-

4 - Microphone 2, internal microphone - R74- to digital sound package control unit - J525-

2 - Microphone 1, front left microphone - R140-

3 - Microphone 2, internal microphone - R74-

Removing and installing microphone unit in front roof module - R164- ⇒ page 121

Control unit for seat belt microphone - J886- is located beneath left front seat. Belt microphones and front left microphone - R140- are connected to control unit for seat belt microphone - J886- .

The signals are evaluated by the control unit for seat belt microphone - J886- and the strongest signal is transmitted to the control unit 1 for information electronics - J794- .

1 - Control unit for seat belt microphone - J886-

2 - Control unit 1 for information electronics - J794-

3 - CAN bus

4 - Microphone 1 on driver side - R224-

5 - Microphone 2 on driver side - R225-

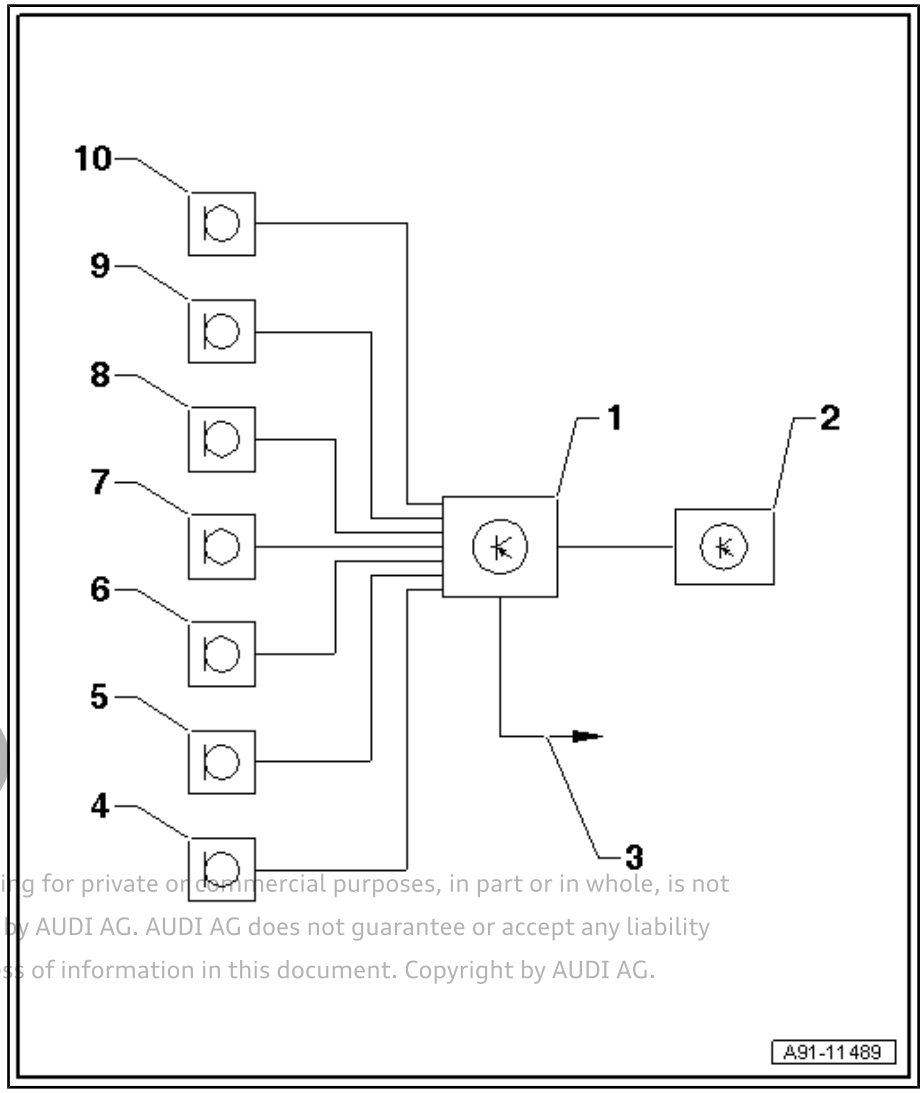
6 - Microphone 3 on driver side - R226-

7 - Front left microphone - R140- , microphone unit in front roof module - R164-

8 - Microphone 1 on front passenger side - R227-

9 - Microphone 2 on front passenger side - R228-

10 - Microphone 3 on front passenger side - R229-



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4.4 Removing and installing microphone unit in front roof module - R164-

⇒ “4.4.1 Removing and installing microphone unit in front roof module R164 - Coupé/Sportback”, page 120

⇒ “4.4.2 Removing and installing microphone unit in front roof module R164 - Cabriolet”, page 121

4.4.1 Removing and installing microphone unit in front roof module - R164- - Coupé/ Sportback

Microphone unit in front roof module - R164- in front interior light - W1- consists of internal microphone - R74- , front left microphone - R140- and front right microphone - R141- . It is possible to renew the microphones individually.

Removing

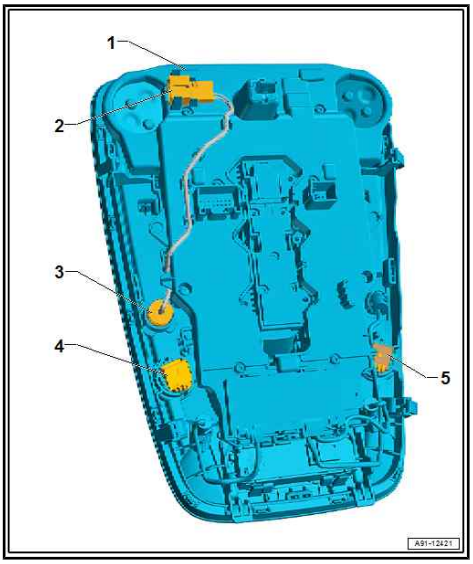
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove front interior light - W1- ⇒ Electrical system; Rep. gr. 96 ; Controls; Overview of fitting locations - controls in roof trim .

– Unclip electrical connector -2- and connectors on microphones -4 and 5- from bracket in front interior light - W1- -1- and disconnect.
– Pry individual microphones -3-, -4- and -5- out of front interior light - W1- -1-.

Installing

Installation is carried out in reverse sequence.



4.4.2 Removing and installing microphone unit in front roof module - R164- - Cabriolet

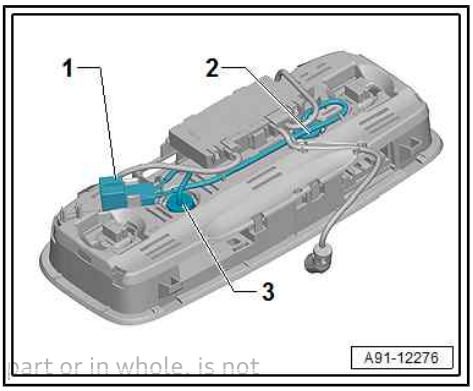
The microphone unit in front roof module - R164- in the front interior light - W1- can only be renewed as a complete unit. It is not possible to renew individual microphones (internal microphone - R74- or front left microphone - R140-).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove front interior light - W1- ⇒ Electrical system; Rep. gr. 96 ; Controls; Overview of fitting locations - controls in roof trim .
– Unclip connector -1- from bracket in front interior light - W1- .
– Pry individual microphones -2- and -3- out of housing for front interior light - W1- .

Installing

Installation is carried out in reverse sequence.



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4.5 Removing and installing control unit for seat belt microphone

Control unit for seat belt microphone - J886- is located beneath left front seat. It is only fitted in Cabriolet models.

Note

If control unit is to be renewed, select the "Replace control unit" function for appropriate control unit in ⇒ Vehicle diagnostic tester.

Removing

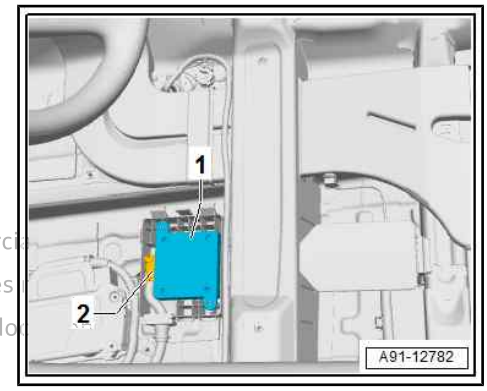
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove front seat (left-side) ⇒ General body repairs, interior; Rep. gr. 72 ; Front seats; Removing and installing front seat .

– Fold floor covering back ⇒ General body repairs, interior; Rep. gr. 70 ; Passenger compartment trim panels; Exploded view - foot rest and floor covering .

– Release and open electronics box cover.

The control unit for seat belt microphone - J886- is only clipped into the electronics box.



– Prise control unit for seat belt microphone - J886- -1- out of electronics box.

– Release and unplug connectors -2-.

Installing

Installation is carried out in reverse sequence.

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4.6 Removing and installing aerial amplifier for mobile telephone - R86-

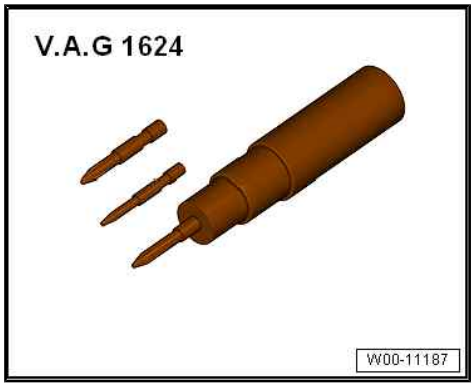
⇒ “4.6.1 Removing and installing aerial amplifier for mobile telephone R86 - Coupé/Sportback”, page 122

⇒ “4.6.2 Removing and installing aerial amplifier for mobile telephone R86 - Cabriolet”, page 123

4.6.1 Removing and installing aerial amplifier for mobile telephone - R86- - Coupé/ Sportback

Special tools and workshop equipment required

♦ Torque screwdriver - V.A.G 1624-



The aerial amplifier for mobile telephone - R86- is located behind the luggage compartment side trim (right-side).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

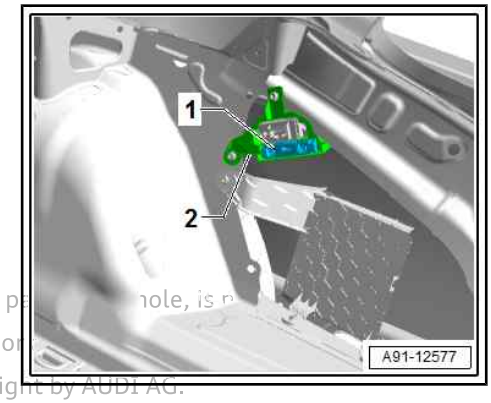
– Remove luggage compartment side trim (right-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment

trim panels; Removing and installing luggage compartment side trim .

Aerial amplifier for mobile telephone - R86- -1- is engaged in bracket -2-.

Bracket -2- must be removed first.

– Release and unplug connectors at aerial amplifier for mobile telephone - R86- -1- and at remote control receiver for auxiliary heater - R64- .



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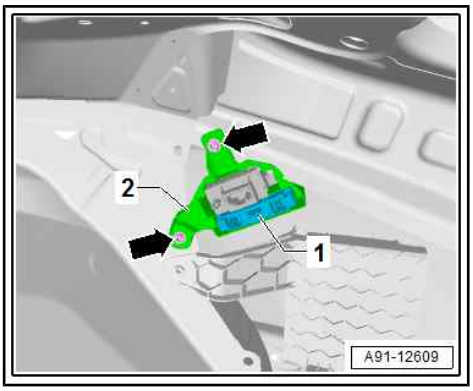
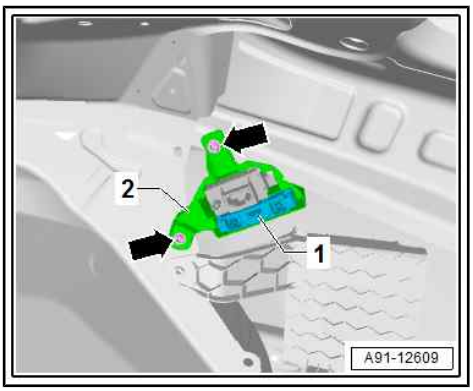
– Remove nuts -arrows- on bracket -2- and detach bracket.



– Pull aerial amplifier for mobile telephone - R86- -1- out of bracket -2-.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

♦ ⇒ “4.2 Overview of fitting locations - telephone system”, page 116

4.6.2 Removing and installing aerial amplifier for mobile telephone - R86- - Cabriolet

The aerial amplifier for mobile telephone - R86- is located behind the luggage compartment side trim (right-side).

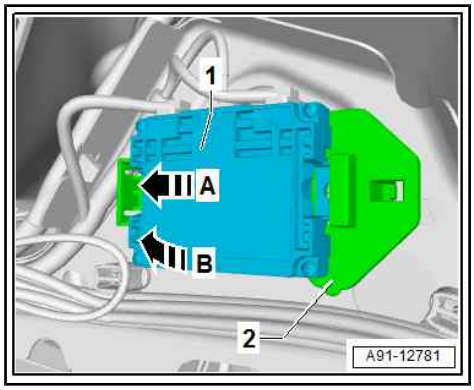
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove luggage compartment side trim (right-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing luggage compartment side trim .

Aerial amplifier for mobile telephone - R86- -1- is engaged in bracket -2-.

– Press tab -arrow A- and prise out aerial amplifier for mobile telephone - R86- -1- in direction of -arrow B-.
– Release and unplug connectors at aerial amplifier for mobile telephone - R86- -1-.



Installing

Installation is carried out in reverse sequence.

4.7 Removing and installing telephone bracket - R126-

Special tools and workshop equipment required

♦ Removal tool - T40388-

Note

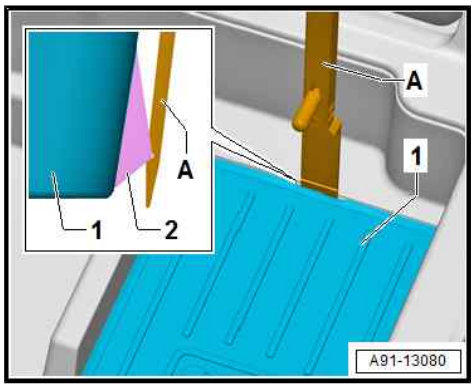
If the amount of space is restricted, the front section of the removal tool - T40388- can be rotated 90°.

Telephone bracket - R126- is located in the centre console storage compartment.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

Telephone bracket - R126- -1- is wedged in storage box.



– Carefully press sealing lip on charging unit 1 for mobile devices - J1146- to side by inserting removal tool - T40388- -A- as shown.
– This disengages lug -2-, which then engages in groove on removal tool - T40388- -A-.
– Pull charging unit 1 for mobile devices - J1146- -1- out of storage compartment using removal tool - T40388- .
– Release and unplug electrical connectors on charging unit 1 for mobile devices - J1146- .

Installing

Installation is carried out in reverse sequence.

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5 Navigation system

⇒ “5.1 Layout - navigation system”, page 125

⇒ “5.2 Overview of fitting locations - navigation system”, page 129

⇒ “5.3 Removing and installing chip card reader control unit”, page 129

5.1 Layout - navigation system

⇒ “5.1.1 Layout - navigation system, MMI navigation system, 7UF”, page 125

⇒ “5.1.2 Layout - navigation system, MMI navigation system plus, 7UG”, page 127

5.1.1 Layout - navigation system, MMI navigation system, 7UF

7UF - Navigation system

Control unit 1 for information electronics - J794- with integrated CD player/SD memory card readers/navigation system in glove box

- SD card with navigation data
- Display unit for front information display and operating unit control unit - J685- (7 inch display) in dash panel (centre)
- Multimedia system operating unit - E380- in centre console, UJ0
- Connection for external audio sources - R199- in centre console storage compartment, USB charging, AUX IN socket, UE4
- Digital sound package control unit - J525- in luggage compartment (rear left), 9VS only
- Sound systems: Audi sound system/Bang & Olufsen sound system, 9VD/9VS
- Radio - R- integrated in control unit 1 for information electronics - J794- , I8S
- Video input for reversing camera system, KA2
- Bluetooth hands-free system, 9ZX
- Speech dialogue system, QH1

Optional equipment

- Digital radio - R147- integrated in control unit 1 for information electronics - J794- , Europe/rest-of-world and QV3 only
- Satellite radio - R146- integrated in control unit 1 for information electronics - J794- , USA and QV3 only
- Connection for external audio sources - R199- in centre console storage compartment, 2x USB, AUX IN socket, ASI, UI2/ UE7
- Audi phone box, 9ZE
- Audi phone box/Audi connect, 9ZE/EL3
- Multi-function steering wheel

ASI - Audi smartphone interface

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1 - GPS aerial - R50-

- ❑ In roof aerial - R216- , Coupé/Sportback
- ❑ In convertible roof compartment lid, Cabriolet

2 - Display unit for front information display and operating unit control unit - J685- in dash panel (centre)

3 - Multimedia system operating unit - E380- in centre console

4 - CAN bus

5 - Control unit 1 for information electronics - J794- in glove box

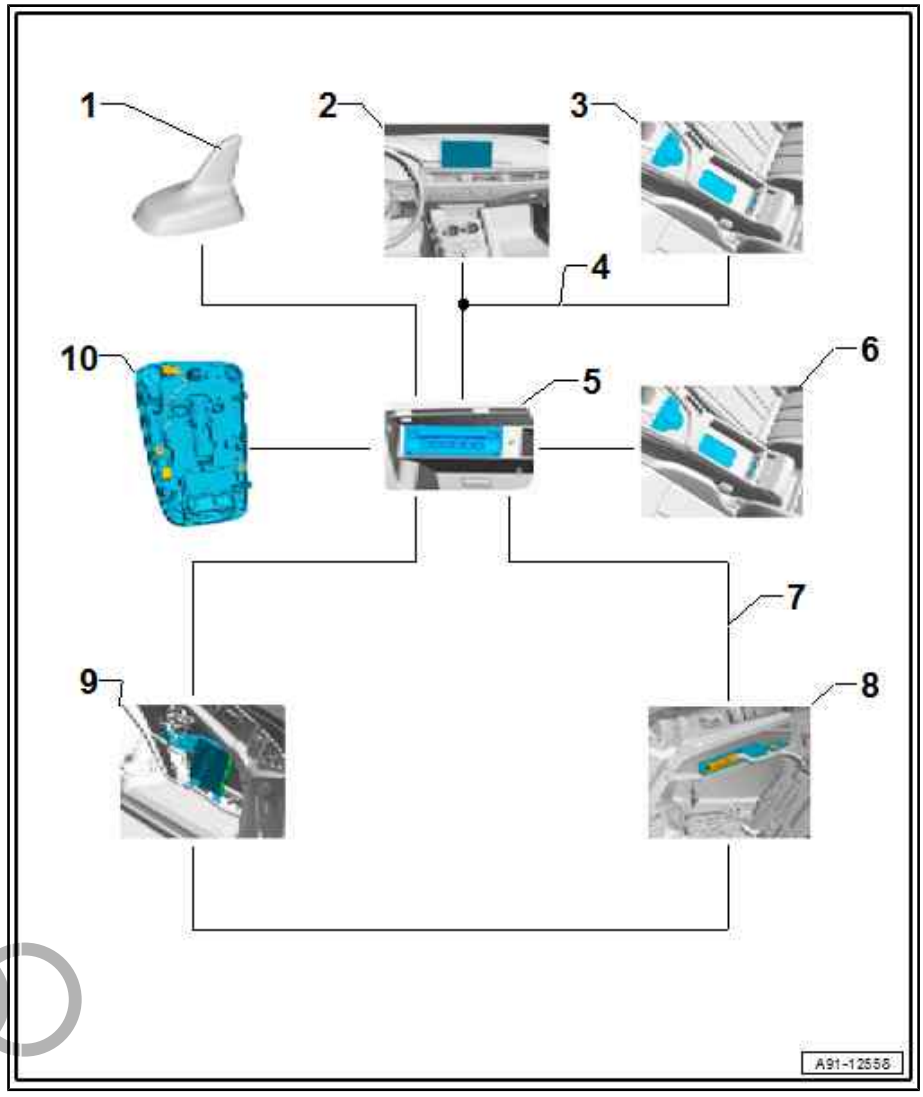
6 - Telephone bracket - R126- / connection for external audio sources - R199- in centre console storage compartment

7 - MOST bus

8 - Digital sound package control unit - J525- in luggage compartment (rear left)

9 - TV tuner - R78- in luggage compartment (rear right)

10 - Microphone unit in front roof module - R164- in front interior light - W1-



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Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

Repairing aerial wiring ⇒ Electrical system; Rep. gr. 97 ; Repairing aerial wires .

Notes on MOST bus

In addition to the CAN bus, the fibre optic data bus “MOST bus” is used.

A fibre optic cable is used. The fibre optic cables are fitted in corrugated tubes for protection.

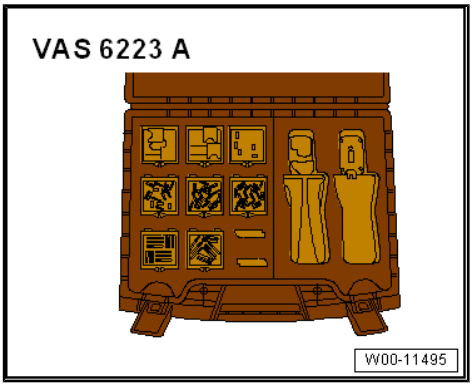
Renew the complete fibre optic cable whenever possible.

The end faces of the connectors must not become dirty.

If connectors are unplugged: fit a protective cap for cable connector - VAS 6223/9- .

When installing the fibre optic cables, be sure to observe the minimum bending radius of 25 mm. Do not crush or kink the fibre optic cables.

Repairing fibre optic cables ⇒ page 1 .



5.1.2 Layout - navigation system, MMI navigation system plus, 7UG

7UG - Navigation system plus

Control unit 1 for information electronics - J794- with integrated DVD player/SD memory card readers/navigation system/HDD in glove box

- Internal hard drive (HDD) to store navigation data and MP3 files
- Display unit for front information display and operating unit control unit - J685- (8.3 inch display) in dash panel (centre)
- Multimedia system operating unit - E380- - MMI touch in centre console, UJ1
- Connection for external audio sources - R199- in centre console storage compartment, USB charging, AUX IN socket, UE4
- Digital sound package control unit - J525- in luggage compartment (rear left), 9VS only
- Sound systems: Audi sound system/Bang & Olufsen sound system, 9VD/9VS
- Radio - R- integrated in control unit 1 for information electronics - J794- , I8H
- Video input for reversing camera system, KA2
- Bluetooth hands-free system, 9ZX
- Speech dialogue system, QH1

Optional equipment

- Digital radio - R147- integrated in control unit 1 for information electronics - J794- , Europe/rest-of-world and QV3 only
- Satellite radio - R146- integrated in control unit 1 for information electronics - J794- , USA and QV3 only
- TV tuner - R78- in luggage compartment (rear right), QU1/QV1
- Dash panel insert - KX2- , “Audi virtual cockpit” display, 9S8
- Connection for external audio sources - R199- in centre console storage compartment, 2x USB, AUX IN socket, ASI, UI2/UE7
- Audi phone box, 9ZE
- Audi phone box/Audi connect, 9ZE/EL3
- Multi-function steering wheel

ASI - Audi smartphone interface

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1 - GPS aerial - R50-

- In roof aerial - R216- , Coupé/Sportback
- In convertible roof compartment lid, Cabriolet

2 - Display unit for front information display and operating unit control unit - J685- in dash panel (centre)

3 - Multimedia system operating unit - E380- in centre console

4 - CAN bus

5 - Control unit 1 for information electronics - J794- in glove box

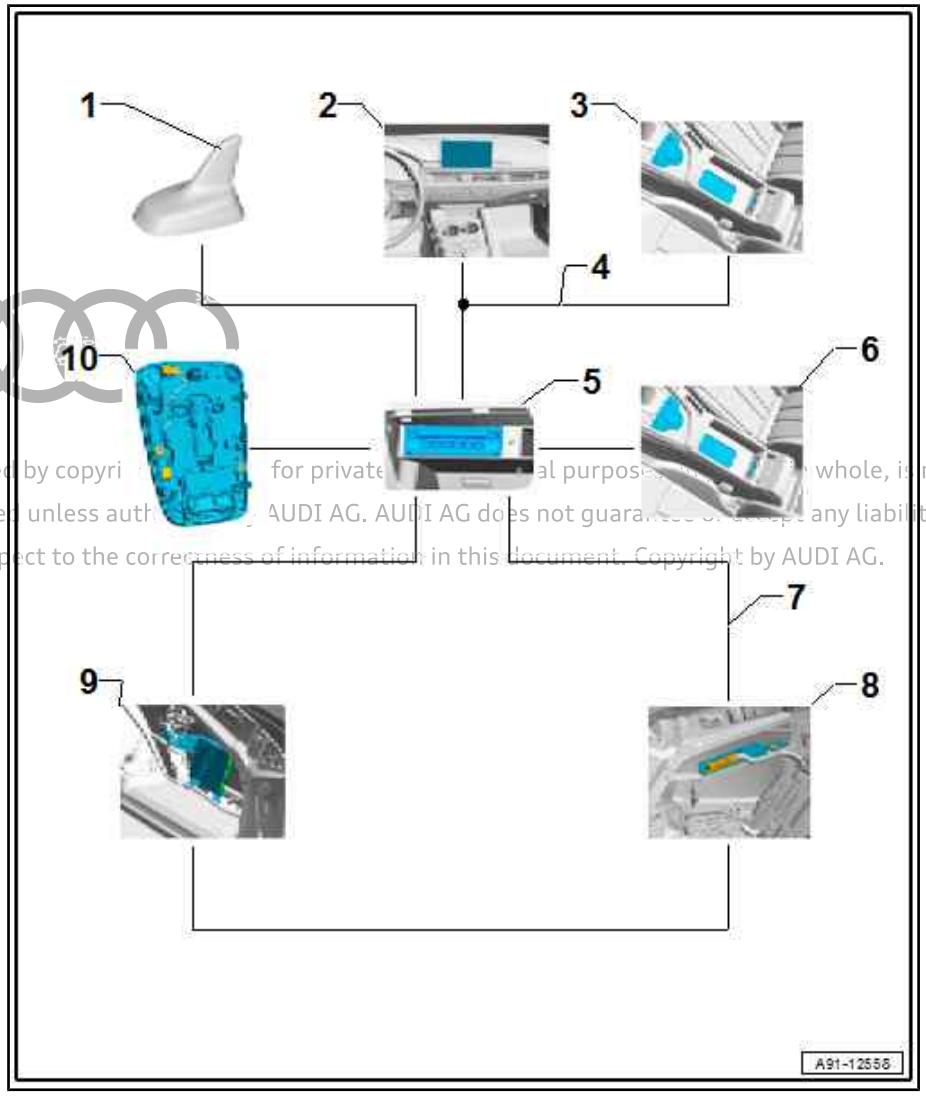
6 - Telephone bracket - R126- / connection for external audio sources - R199- in centre console storage compartment

7 - MOST bus

8 - Digital sound package control unit - J525- in luggage compartment (rear left)

9 - TV tuner - R78- in luggage compartment (rear right)

10 - Microphone unit in front roof module - R164- in front interior light - W1-



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Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

Repairing aerial wiring ⇒ Electrical system; Rep. gr. 97 ; Repairing aerial wires .

Notes on MOST bus

In addition to the CAN bus, the fibre optic data bus “MOST bus” is used.

A fibre optic cable is used. The fibre optic cables are fitted in corrugated tubes for protection.

Renew the complete fibre optic cable whenever possible.

The end faces of the connectors must not become dirty.

If connectors are unplugged: fit a protective cap for cable connector - VAS 6223/9- .

When installing the fibre optic cables, be sure to observe the minimum bending radius of 25 mm. Do not crush or kink the fibre optic cables.

Repairing fibre optic cables ⇒ page 1 .

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5.2 Overview of fitting locations - navigation system

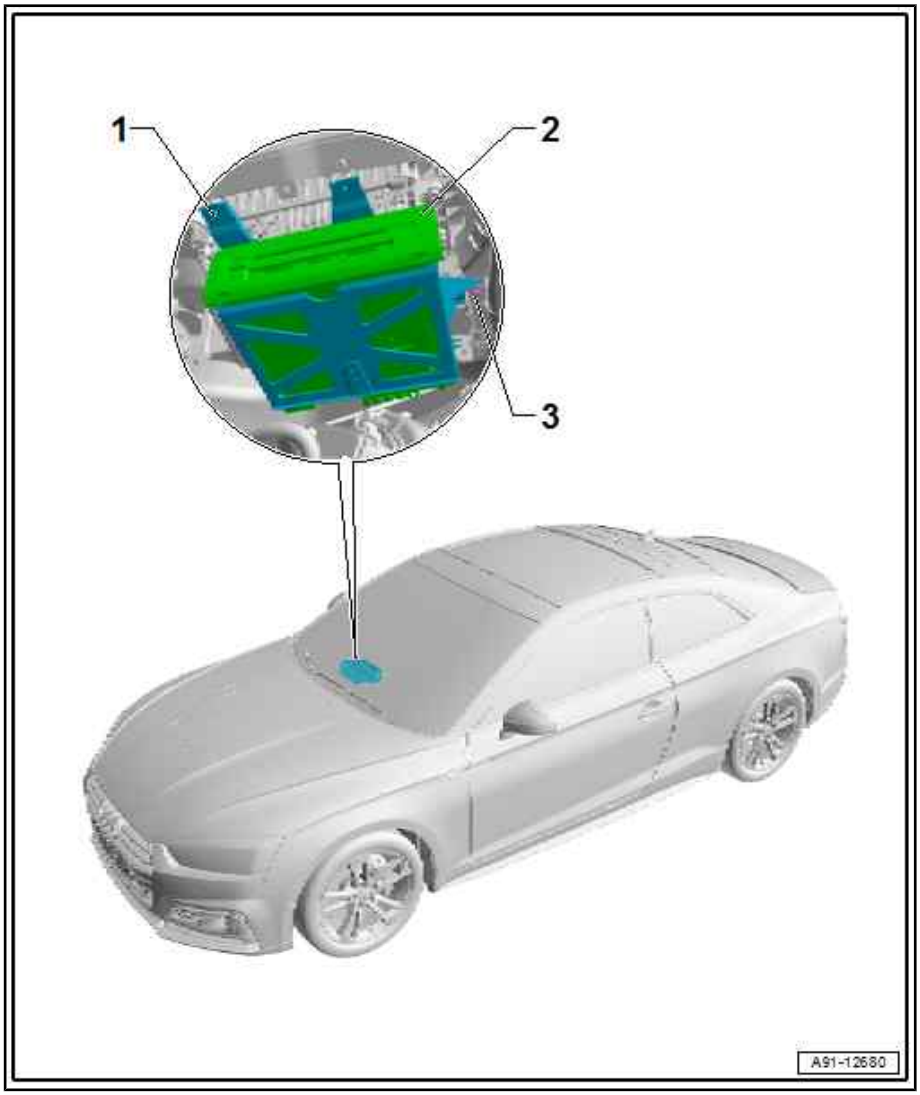
1 - Bracket

2 - Bolt

- ❑ 2x
- ❑ 3 Nm

3 - Control unit 1 for information electronics - J794-

- ❑ In glove box
- ❑ ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- ❑ Removing and installing ⇒ page 10



5.3 Removing and installing chip card reader control unit

The chip card reader control unit - J676- is located in the glove box, ER5 only.

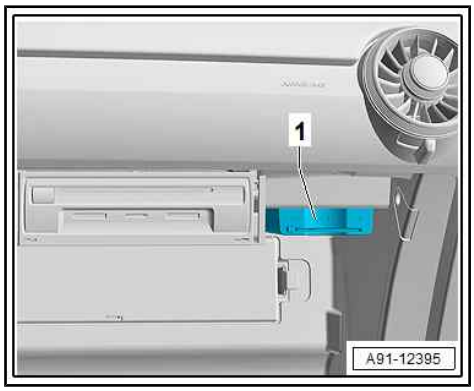
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Open glove box.

– Remove chip card.

– Slide chip card reader control unit - J676- -1- towards rear until it can be detached from lining.

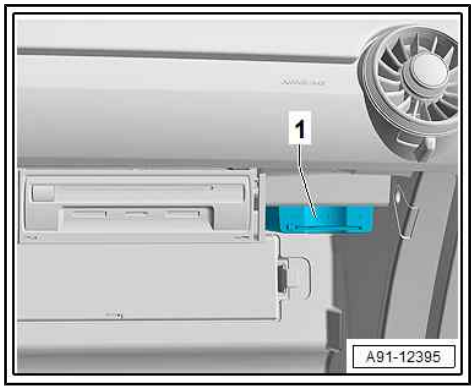


– Release and unplug connectors at chip card reader control unit - J676- -1-.

Installing

Installation is carried out in reverse order; note the following:

– Make sure all retaining tabs of chip card reader control unit - J676- -1- engage in lining.



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6 TV system

⇒ “6.1 Layout - TV system”, page 131

⇒ “6.2 Overview of fitting locations - TV system”, page 132

⇒ “6.3 Removing and installing TV tuner”, page 133

6.1 Layout - TV system

The TV system (QU1) is part of the MMI infotainment system.

The TV tuner - R78- is connected to the other components of the infotainment system via the MOST bus. The multimedia system operating unit - E380- is used for operation.

1 - GPS aerial - R50-

- ❑ In roof aerial - R216- , Coupé/Sportback
- ❑ In convertible roof compartment lid, Cabriolet

2 - Display unit for front information display and operating unit control unit - J685- in dash panel (centre)

3 - Multimedia system operating unit - E380- in centre console

4 - CAN bus

5 - Control unit 1 for information electronics - J794- in glove box

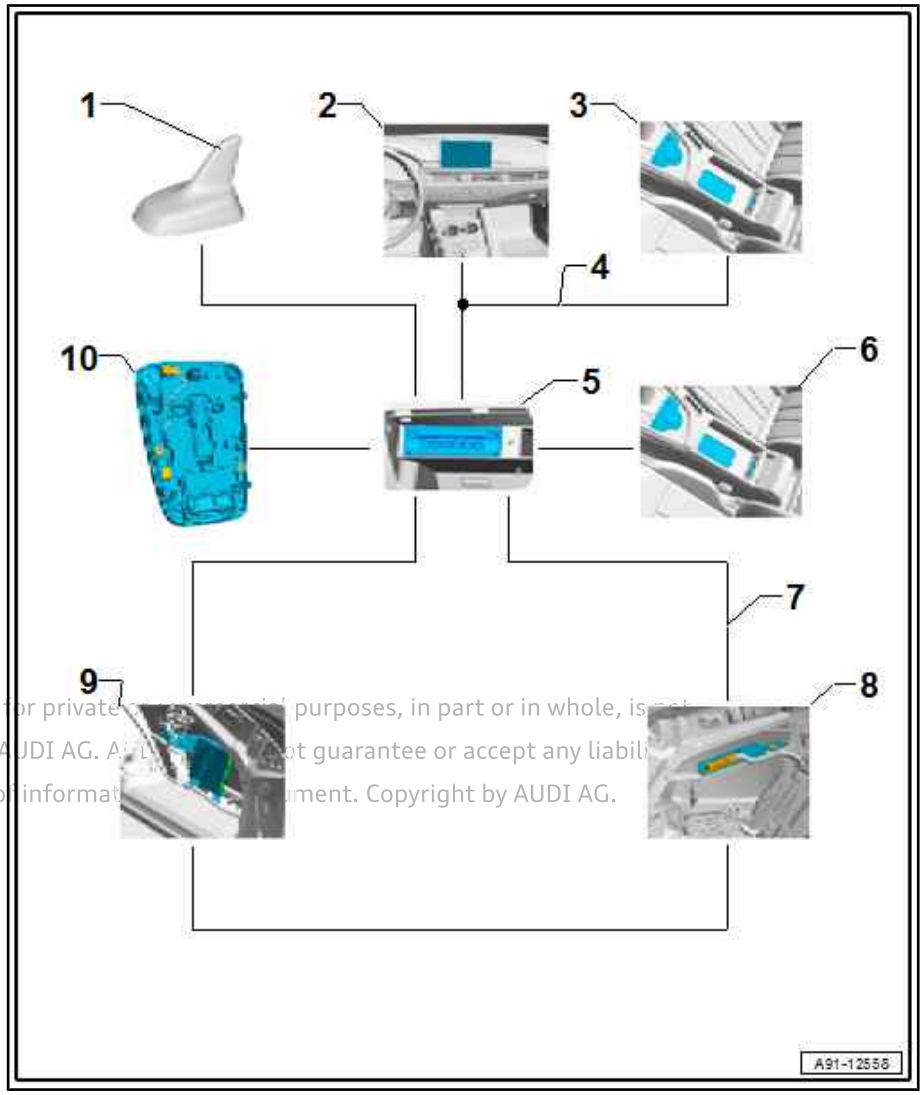
6 - Connection for external audio sources - R199- in centre console storage compartment

7 - MOST bus

8 - Digital sound package control unit - J525- in luggage compartment (rear left)

9 - TV tuner - R78- in luggage compartment (rear right)

10 - Microphone unit in front roof module - R164- in front interior light - W1-



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Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

Repairing aerial wiring ⇒ Electrical system; Rep. gr. 97 ; Repairing aerial wires .

Notes on MOST bus

In addition to the CAN bus, the fibre optic data bus “MOST bus” is used.

A fibre optic cable is used. The fibre optic cables are fitted in corrugated tubes for protection.

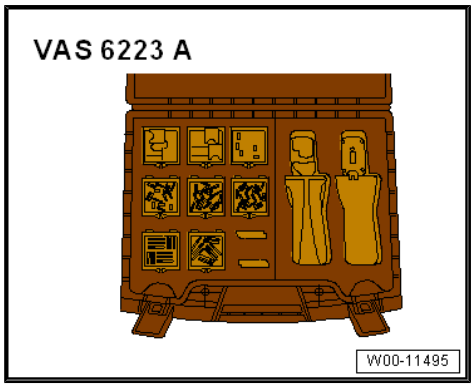
Renew the complete fibre optic cable whenever possible.

The end faces of the connectors must not become dirty.

If connectors are unplugged: fit a protective cap for cable connector - VAS 6223/9- .

When installing the fibre optic cables, be sure to observe the minimum bending radius of 25 mm. Do not crush or kink the fibre optic cables.

Repairing fibre optic cables ⇒ page 1 .



6.2 Overview of fitting locations - TV system

Note

The fitting locations are shown on a Coupé model. The fitting locations are the same for other vehicle versions.

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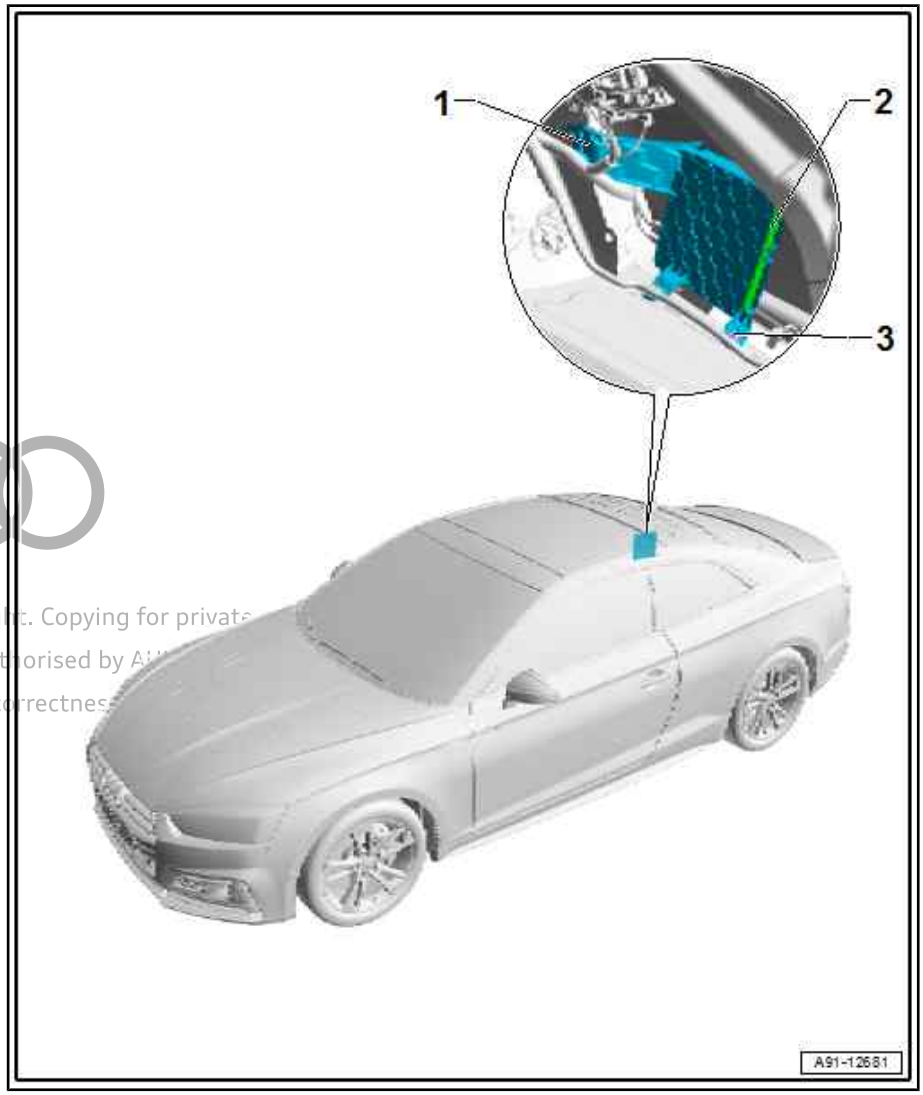
1 - Bracket

2 - TV tuner - R78-

- ❑ Behind luggage compartment side trim (right-side)
- ❑ ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- ❑ Removing and installing (Coupé/Sportback) ⇒ page 133
- ❑ Removing and installing (Cabriolet) ⇒ page 135

3 - Nut

- ❑ 3x
- ❑ 3 Nm



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6.3 Removing and installing TV tuner

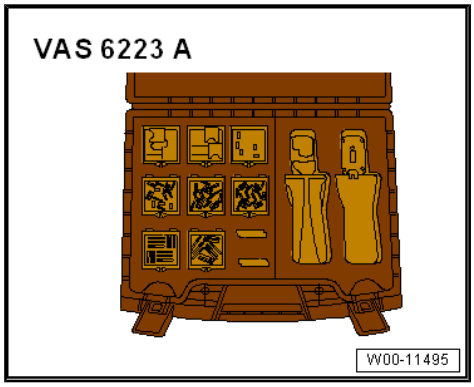
⇒ "6.3.1 Removing and installing TV tuner - Coupé/Sportback", page 133

⇒ "6.3.2 Removing and installing TV tuner - Cabriolet", page 135

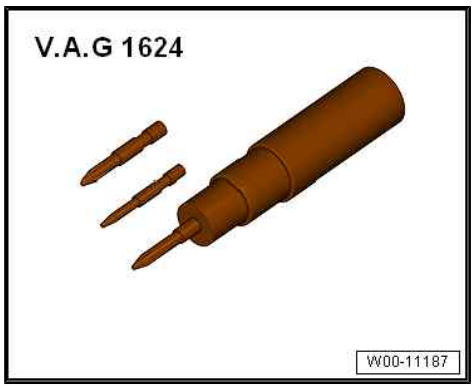
6.3.1 Removing and installing TV tuner - Coupé/Sportback

Special tools and workshop equipment required

- Protective cap for cable connector - VAS 6223/9-



- Torque screwdriver - V.A.G 1624-



The TV tuner - R78- is located behind the luggage compartment side trim (right-side).

Note

If control unit is to be renewed, select the "Replace control unit" function for appropriate control unit in ⇒ Vehicle diagnostic tester.

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Removing

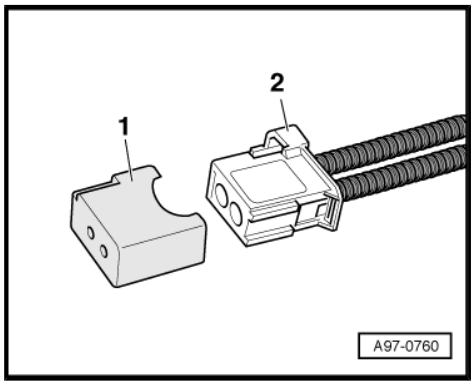
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove luggage compartment side trim (right-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing luggage compartment side trim .

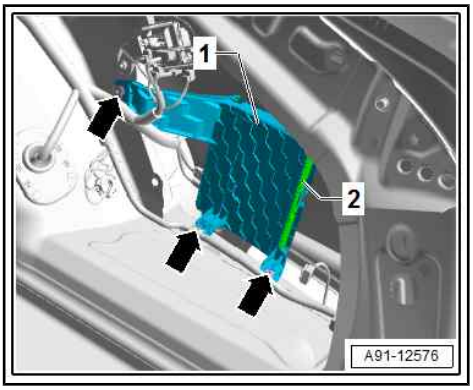
The bracket must first be removed.

– Release and unplug all connectors on TV tuner - R78- .

– Fit protective cap for cable connector - VAS 6223/9- -1- onto MOST bus connector -2-.

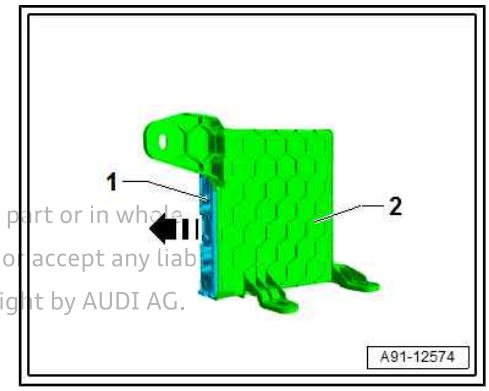


– Remove nuts -arrows- on bracket -1-.
– Take TV tuner - R78- -2- out of vehicle with bracket -1-.



TV tuner - R78- is engaged in bracket.

– Press fasteners on bracket -2- and pull TV tuner - R78- -1- out of bracket -2- in direction of -arrow-.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

♦ ⇒ “6.2 Overview of fitting locations - TV system”, page 132

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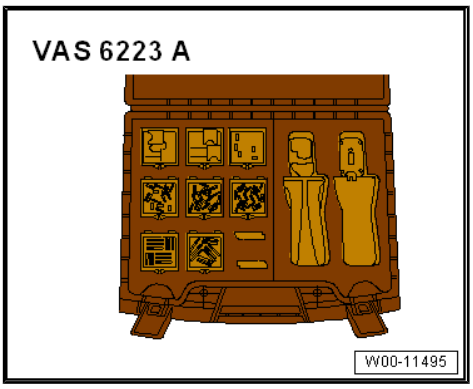
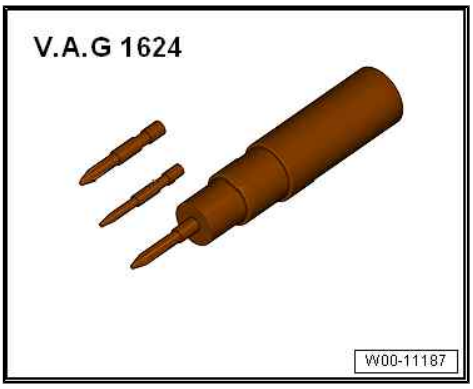
6.3.2 Removing and installing TV tuner - Cabriolet

Special tools and workshop equipment required

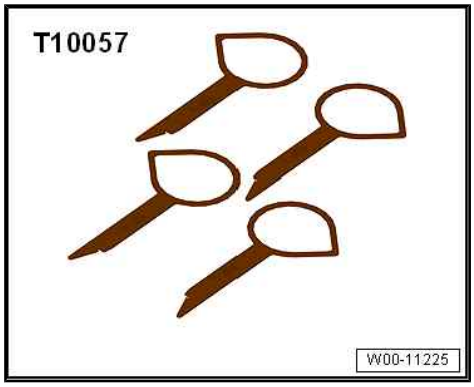
♦ Protective cap for cable connector - VAS 6223/9-



♦ Torque screwdriver - V.A.G 1624-



♦ Radio release tool - T10057-



The TV tuner - R78- is located behind the luggage compartment side trim (right-side).

Note

If control unit is to be renewed, select the "Replace control unit" function for appropriate control unit in ⇒ Vehicle diagnostic tester.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove luggage compartment side trim (right-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing luggage compartment side trim .

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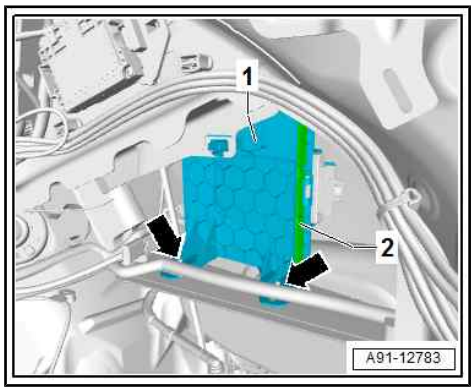
– Unscrew nuts -arrows- on bracket -1-.

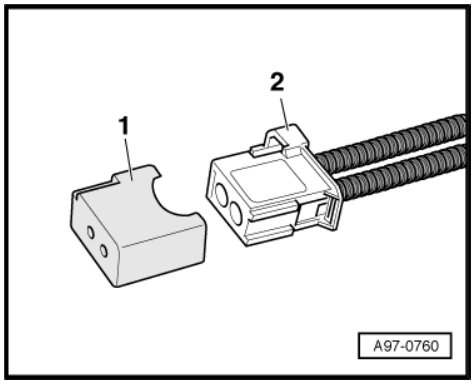
– Unclip retaining lug at top of bracket -1- from vehicle body.

– Take TV tuner - R78- -2- out of vehicle with bracket -1- until connectors can be accessed.

– Release and unplug all connectors on TV tuner - R78- .



– Fit protective cap for cable connector - VAS 6223/9- -1- onto MOST bus connector -2-.



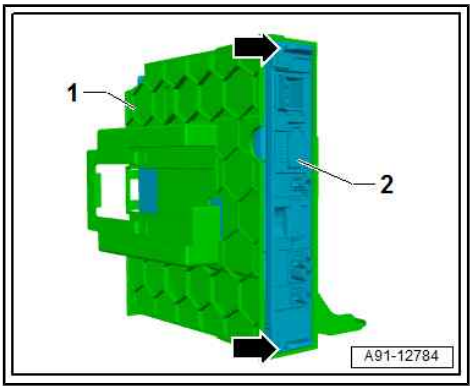
– Insert two radio release tools - T10057- into slots -arrows- on TV tuner - R78- -2-.

• Pointed ends of radio release tools - T10057- must face outwards.

• Radio release tools - T10057- must engage properly.

– Grasp hold of grips on radio release tools - T10057- and pull TV tuner - R78- -2- out of bracket -1-.

– Press release tabs on TV tuner - R78- and remove radio release tools - T10057- .



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

◆ ⇒ “6.2 Overview of fitting locations - TV system”, page 132

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7 Reversing camera system

⇒ “7.1 Layout - reversing camera system”, page 138

⇒ “7.2 Overview of fitting locations - reversing camera system”, page 138

⇒ “7.3 Removing and installing reversing camera R189 ”, page 139

⇒ “7.4 Removing and installing reversing camera system control unit J772 ”, page 141

⇒ “7.5 Calibrating reversing camera system”, page 141

7.1 Layout - reversing camera system

The reversing camera system (KA2) provides assistance to the driver when driving the vehicle backwards in both parallel and perpendicular parking manoeuvres, while towing a trailer and when monitoring cross-traffic; the information about the prevailing traffic conditions behind the vehicle is supplied to the driver via the display unit for front information display and operating unit control unit - J685- .

The system will be switched on as soon as reverse gear is engaged. The system can be activated manually by operating the parking aid button - E266- in the dash panel (optional).

The reversing camera system consists of the following components:

- Reversing camera - R189-
- Reversing camera system control unit - J772- , integrated in reversing camera - R189-
- Control unit 1 for information electronics - J794-
- Display unit for front information display and operating unit control unit - J685-

As an option, other control units may also be installed.

Do not fit an additional number plate on vehicles equipped with reversing camera system as this will impair the function of the reversing camera system.

Fault finding is performed via the “Guided Fault Finding” function using ⇒ Vehicle diagnostic tester.

7.2 Overview of fitting locations - reversing camera system

Note

The fitting locations are shown on a Coupé model. The fitting locations are the same for other vehicle versions.

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1 - Display unit for front information display and operating unit control unit - J685-

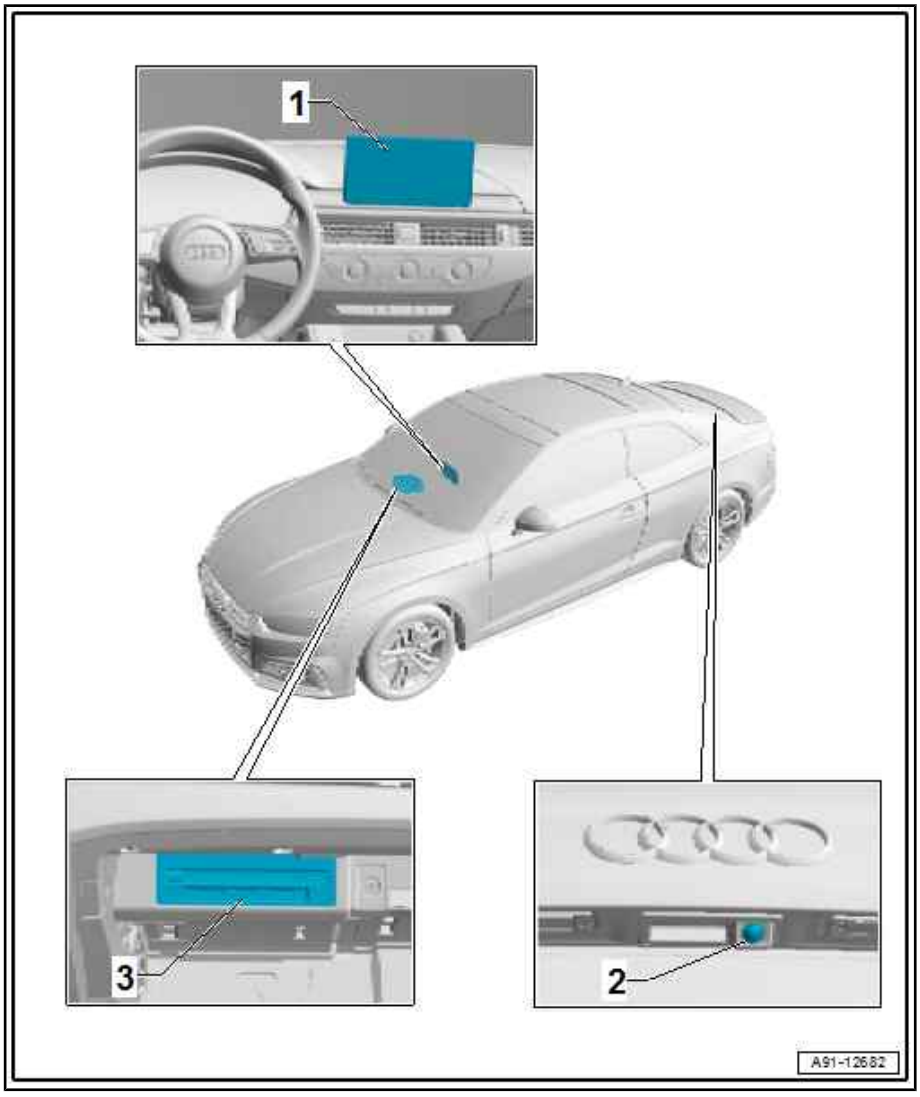
- ❑ In dash panel (centre)
- ❑ ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- ❑ Removing and installing ⇒ page 9

2 - Reversing camera - R189-

- ❑ With reversing camera system control unit - J772-
- ❑ ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- ❑ Removing and installing (Coupé/Sportback) ⇒ page 139
- ❑ Removing and installing (Cabriolet) ⇒ page 140
- ❑ Bolt/nut for bracket (Cabriolet): 4 Nm
- ❑ Calibration ⇒ page 141

3 - Control unit 1 for information electronics - J794-

- ❑ In glove box
- ❑ ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- ❑ Removing and installing ⇒ page 10



7.3 Removing and installing reversing camera - R189-

⇒ "7.3.1 Removing and installing reversing camera R189 - Coupé/Sportback", page 139

⇒ "7.3.2 Removing and installing reversing camera R189 - Cabriolet", page 140

7.3.1 Removing and installing reversing camera - R189- - Coupé/Sportback

Reversing camera - R189- is installed in rear lid in handle and is permanently fitted in handle.

When renewing the reversing camera - R189- the handle must also be renewed.

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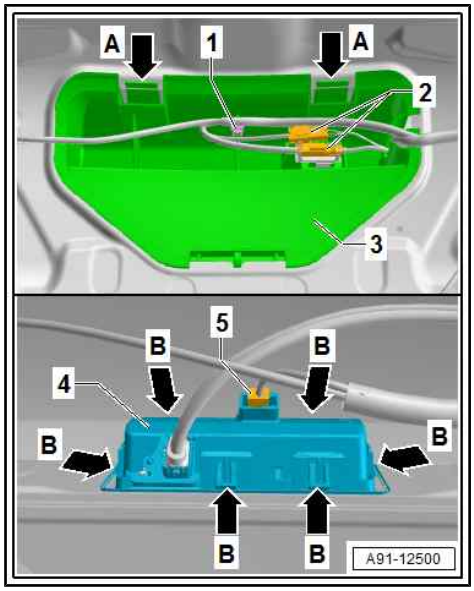
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

The reversing camera - R189- is equipped with a trailing cable. The connectors to the vehicle wiring harness are located in the rear lid.

– Remove rear lid trim (bottom) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Exploded view - rear lid trim (bottom) .



– Release and unplug electrical connectors -2-.
– Detach cable retainer -1- from anti-theft protection -3-.
– Disengage catches -arrows A-.
– Detach anti-theft protection -3- from rear lid.
– Release and unplug electrical connector -5-.
– Release catches -arrows B-.
– Remove handle -4- from rear lid.

Installing

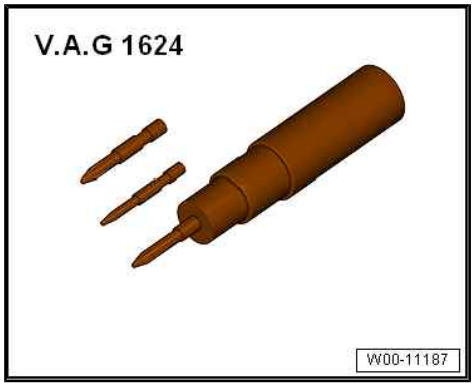
Installation is carried out in reverse order; note the following:

– Close rear lid.
– Perform calibration ⇒ page 141 .

7.3.2 Removing and installing reversing camera - R189- - Cabriolet

Special tools and workshop equipment required

♦ Torque screwdriver - V.A.G 1624-



The reversing camera - R189- is installed in the handle trim for the rear lid.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

The reversing camera - R189- is equipped with a trailing cable. The connectors to the vehicle wiring harness are located in the rear lid.

– Remove rear lid trim (bottom) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Exploded view - rear lid trim (bottom) .

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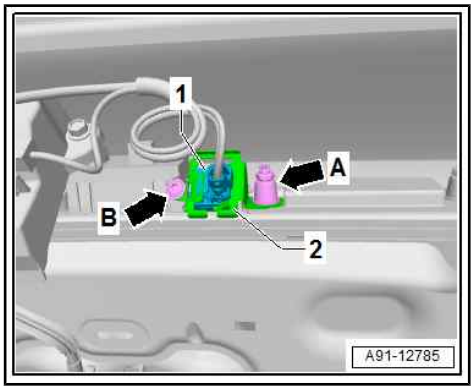
– Release and unplug electrical connectors for reversing camera - R189- -1-.
– Remove nut -arrow A-.
– Unscrew bolt -arrow B-.
– Detach bracket -2-.
– Pull reversing camera - R189- -1- out of handle trim.



Installing

Installation is carried out in reverse order; note the following:

– Close rear lid.
– Perform calibration ⇒ page 141 .

Tightening torques

Component	Tightening torque
Nut to handle trim	4 Nm
Bolt to reversing camera - R189-	4 Nm

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7.4 Removing and installing reversing camera system control unit - J772-

Reversing camera system control unit - J772- is integrated in reversing camera - R189- and cannot be renewed separately.

Note

If control unit is to be renewed, select the "Replace control unit" function for appropriate control unit in ⇒ Vehicle diagnostic tester.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove reversing camera - R189- ⇒ page 139 .

Installing

– Install reversing camera - R189- ⇒ page 139 .
– Perform calibration ⇒ page 141 .

7.5 Calibrating reversing camera system

⇒ "7.5.1 Setting up and aligning calibration unit VAS 6350 ", page 141

⇒ "7.5.2 Calibrating reversing camera R189 ", page 144

7.5.1 Setting up and aligning calibration unit - VAS 6350-

After performing service work on the vehicle it may be necessary to re-calibrate the reversing camera system. This is required after:

♦ Removing and installing reversing camera - R189-
♦ Performing accident repair work on rear lid
♦ Changes to wheel alignment on rear axle

Requirements for calibration

- Camera lens must be clean.
- Vehicle must be positioned on a firm and even surface.
- There must be sufficient space around the vehicle.
- Parking brake must be activated.
- Steering wheel must be in centre position, wheels must be straight.
- All doors and the rear lid must be closed.
- There must not be anyone inside the vehicle.
- Vehicle must not be loaded (unladen weight).
- Switch on ignition before every calibration.

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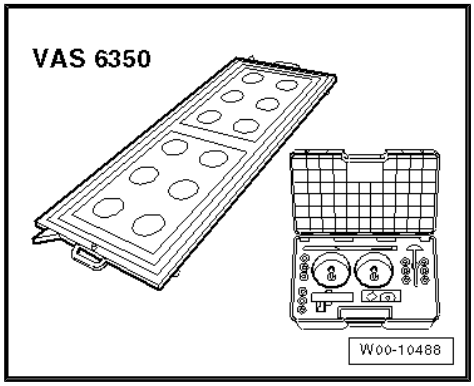
Special tools and workshop equipment required

- Calibration unit - VAS 6350-



- ⇒ Vehicle diagnostic tester

The calibration unit - VAS 6350- consists of the following items:

- Wheel centre mounting - VAS 6350/1-
- Spacing laser - VAS 6350/2-
- Linear laser - VAS 6350/3-

Overview of calibration equipment - VAS 6350- when set up

Note

The vehicle in the illustration is only intended to serve as an example.

1 - Wheel centre mounting - VAS 6350/1-

2 - Wheel centre mounting - VAS 6350/1-

3 - Locating bracket (right-side)

- ❑ Mounting for spacing laser - VAS 6350/2-

4 - Plastic foot

- ❑ Three on underside of calibration platform
- ❑ Adjustable, for aligning horizontal position of calibration platform

5 - Linear laser - VAS 6350/3-

- ❑ On calibration platform
- ❑ Switching on and off ⇒ Owner's Manual

6 - Spacing laser - VAS 6350/2-

- ❑ On calibration platform
- ❑ Operating instructions ⇒ Owner's Manual

7 - Spirit level

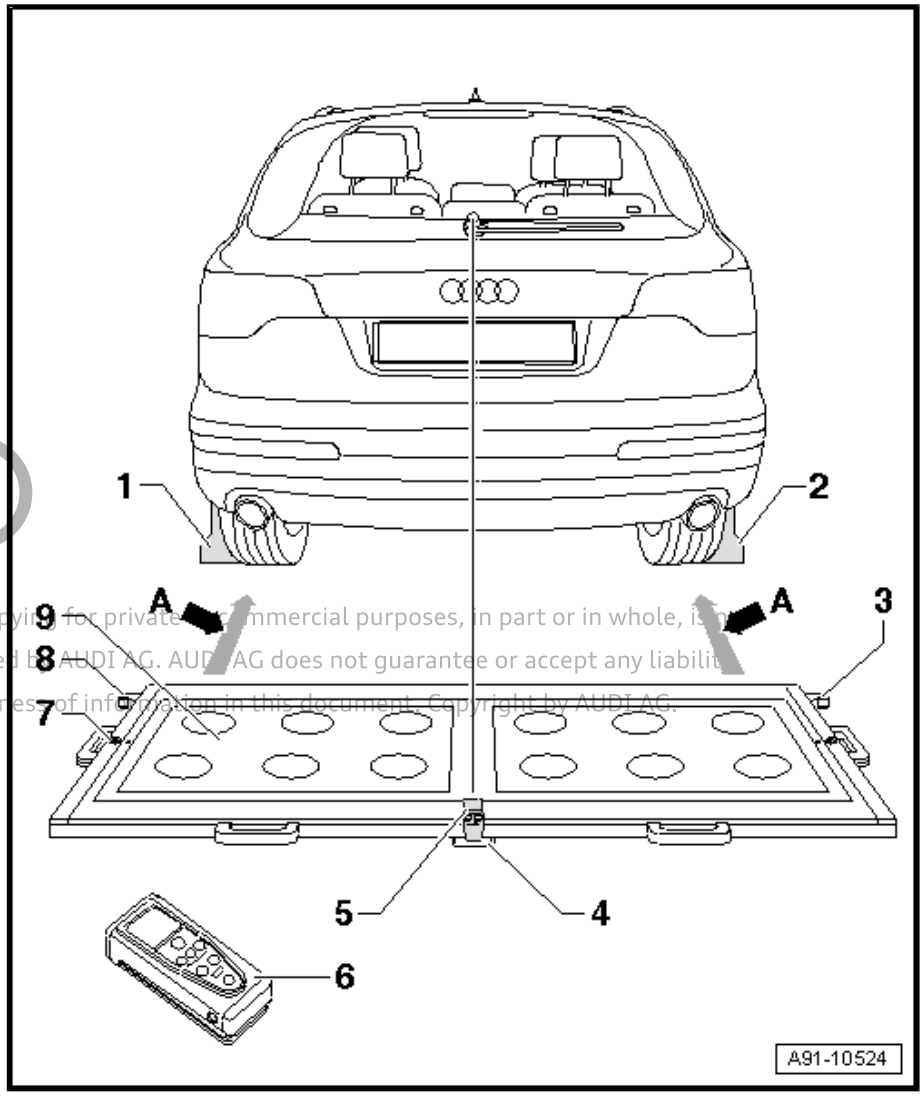
- ❑ On calibration platform
- ❑ For checking horizontal position

8 - Locating bracket (left-side)

- ❑ Mounting for spacing laser - VAS 6350/2-

9 - Calibration platform

- ❑ -Dimension A- = 1.47 m - 1.90 m between locating brackets of calibration platform and wheel centre mountings - VAS 6350/1-



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Aligning calibration platform

– Position calibration platform behind vehicle at a distance of 1.47 m - 1.90 m from rear wheels, refer to -dimension A- in overview ⇒ page 142 .

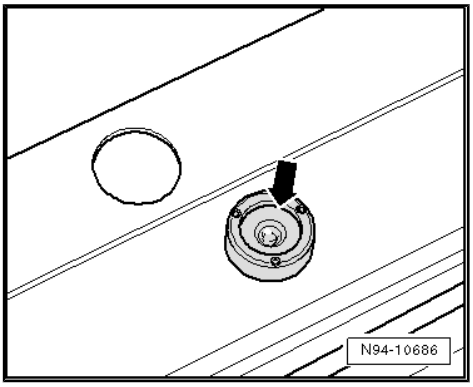
– Move calibration unit - VAS 6350- to a horizontal position.

– To do so, turn plastic feet beneath calibration platform to make air bubble in spirit level move exactly to centre of display -arrow-.

WARNING

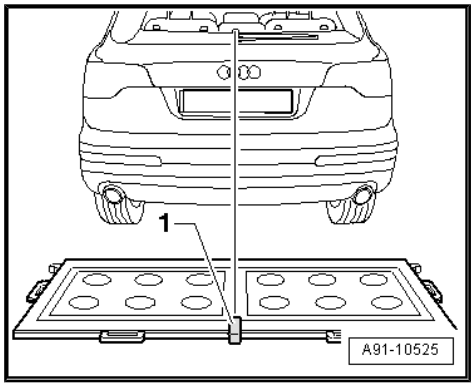
Make sure no light is reflected on calibration platform.

Reflected light impairs the view of the reversing camera - R189- and therefore it may be impossible to perform calibration.



Note

The vehicle in the illustration is only intended to serve as an example.



- Switch on linear laser - VAS 6350/3- -1- on calibration platform and align entire calibration unit - VAS 6350- so that laser beam shines onto centre of Audi rings on rear of vehicle.
- Check whether the Audi rings are in the centre on the rear of the vehicle and adjust the laser beam accordingly.

Continue by calibrating reversing camera - R189- ⇒ page 144 .

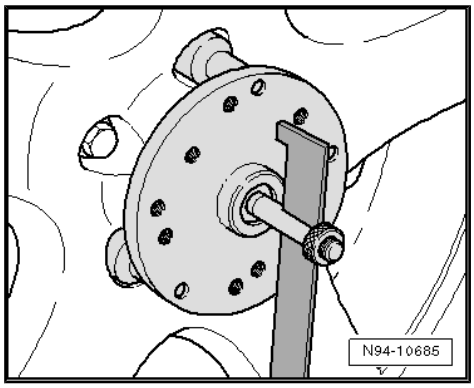
7.5.2 Calibrating reversing camera - R189-

- Ensure requirements are met ⇒ page 142 .
- Connect ⇒ Vehicle diagnostic tester.

Fitting wheel centre mountings - VAS 6350/1-

- Check the bolt hole circle pattern on the wheels.
- Prepare wheel centre mountings - VAS 6350/1- as required.
- To do so, secure three wheel bolt adapters to each wheel centre mounting - VAS 6350/1- to match the hole circle.
- Position paddles on both wheel centre mountings - VAS 6350/1- and secure each paddle with clamping bolt.
- Fit wheel centre mountings - VAS 6350/1- onto wheel bolts on rear wheels.

The wheel centre mountings - VAS 6350/1- are kept in position by the O-rings in the adapters.



Note

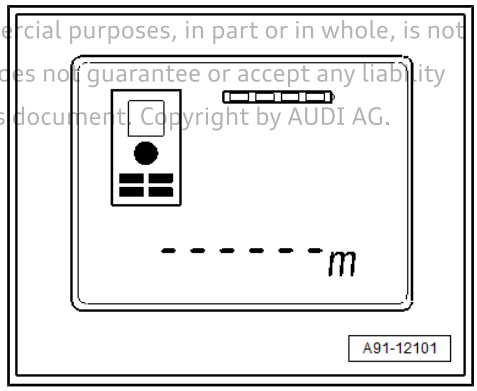
When fitting the wheel centre mountings - VAS 6350/1- onto the wheels, make sure that they are not mounted on any "anti-theft" wheel bolts that might be installed.

- Use clamping bolts to adjust paddles so that they are free to move just slightly above the ground. Make sure the paddles can move freely.
- Set up and align calibration unit - VAS 6350- ⇒ page 141 .

Measuring dimension

- Switch on spacing laser - VAS 6350/2- .

The following display will appear.



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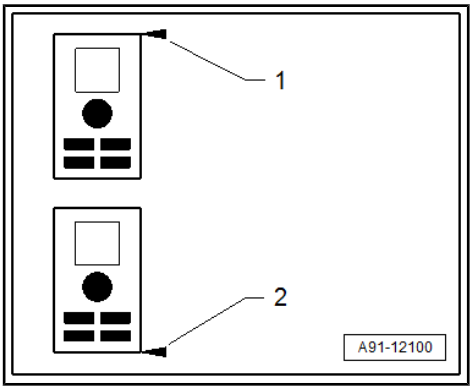
The display will show how the spacing laser - VAS 6350/2- should be positioned. Press the appropriate key.

1 - Position at front edge

2 - Position at rear edge



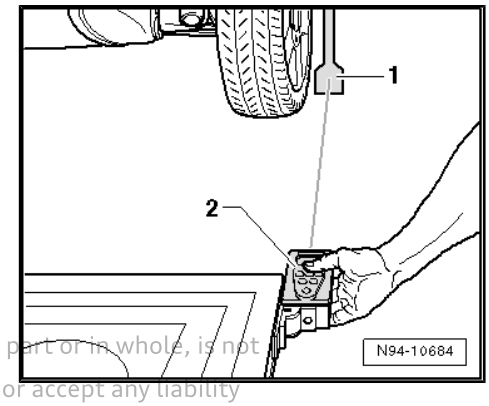
– Hold spacing laser - VAS 6350/2- -2- flush with bracket on one side of the calibration unit as shown in illustration. Spacing laser - VAS 6350/2- -2- must make firm contact with bracket.

– Briefly press the measurement button.

The laser will switch on.

Laser beam from spacing laser - VAS 6350/2- -2- must hit lower, larger part of paddle -1-.

If this is not the case, position of paddles must be corrected accordingly using clamping bolts on wheel centre mounting - VAS 6350/1-.



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– Hold spacing laser - VAS 6350/2- in locating bracket on calibration unit - VAS 6350- with one hand while laser beam is visible on paddle.

– Now press measurement button briefly to measure distance.

– Note down the measured value.

– Perform same measuring procedure for rear wheel on other side of calibration unit - VAS 6350- .

Measured distance value must be identical on both sides.

If values are not identical:

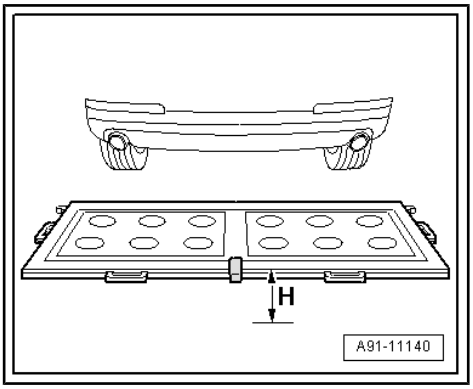
– Adjust calibration unit - VAS 6350- until values on both sides are identical.

– When adjusting, make sure that linear laser - VAS 6350/3- hits centre of Audi rings and spirit level display also remains central. Correct if necessary.

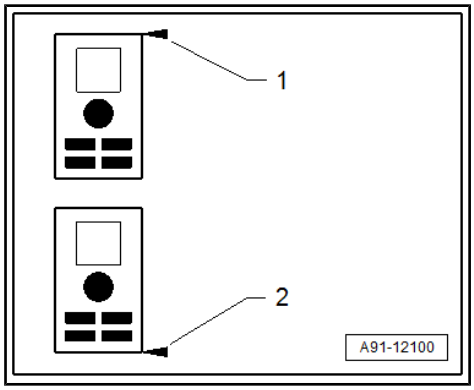
Measuring -dimension H-

– Measure height of calibration unit - VAS 6350- : dimension -H- (top edge of platform - floor).

Ensure that spacing laser - VAS 6350/2- is correctly adjusted (position at front edge).



The display will show how the spacing laser - VAS 6350/2- should be positioned. Press the appropriate key.



1 - Position at front edge

2 - Position at rear edge

– Finally, measure distance from centre of reversing camera lens to wheel contact patch using a commercially available measuring tape.

– Note the dimension measured.

Now enter measured distance value, height of calibration unit and height of centre of reversing camera lens in “millimetres” in vehicle diagnostic tester.

Performing calibration

⇒ Vehicle diagnostic tester must be connected.

– Select `Diagnosis` mode and begin diagnosis.

– Select `Test plan` tab.

– Choose `Select own test` and select following options one after the other:

- Body
- Electrical system
- 01 - Self-diagnosis compatible systems
- 6C - Rear-view camera system - J772
- 6C - Reversing camera system control unit, functions
- 6C - Calibrate

Further instructions are given by ⇒ Vehicle diagnostic tester during calibration procedure.

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8 Multi-function steering wheel

⇒ “8.1 Layout - multi-function steering wheel”, page 147

⇒ “8.2 Exploded view - multi-function steering wheel”, page 147

⇒ “8.3 Removing and installing multifunction buttons in steering wheel E441 / E440 ”, page 149

⇒ “8.4 Removing and installing tiptronic switches in steering wheel E439 / E438 ”, page 153

8.1 Layout - multi-function steering wheel

Buttons are integrated in the steering wheel in order to make the infotainment, telephone and navigation systems easier to use. On vehicles with tiptronic, rocker switches are also fitted on the right and left side of the steering wheel.

The multi-function steering wheel control unit - J453- (in the right-side button) reads out the button information and transfers it to the steering column electronics control unit - J527- via the LIN data bus. The information is then transferred from the steering column electronics control unit - J527- to the data bus diagnostic interface - J533- via a LIN data bus.

Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

8.2 Exploded view - multi-function steering wheel

⇒ “8.2.1 Exploded view - multi-function steering wheel, steering wheel with round airbag”, page 147

⇒ “8.2.2 Exploded view - multi-function steering wheel, steering wheel with trapezium-shaped airbag”, page 149

8.2.1 Exploded view - multi-function steering wheel, steering wheel with round airbag

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1 - Tiptronic switch in steering wheel to shift down - E439-

- ❑ Removing and installing ⇒ page 153

2 - 3-spoke steering wheel

3 - Tiptronic switch in steering wheel to shift up - E438-

- ❑ Removing and installing ⇒ page 153

4 - Bolt

- ❑ 1 Nm

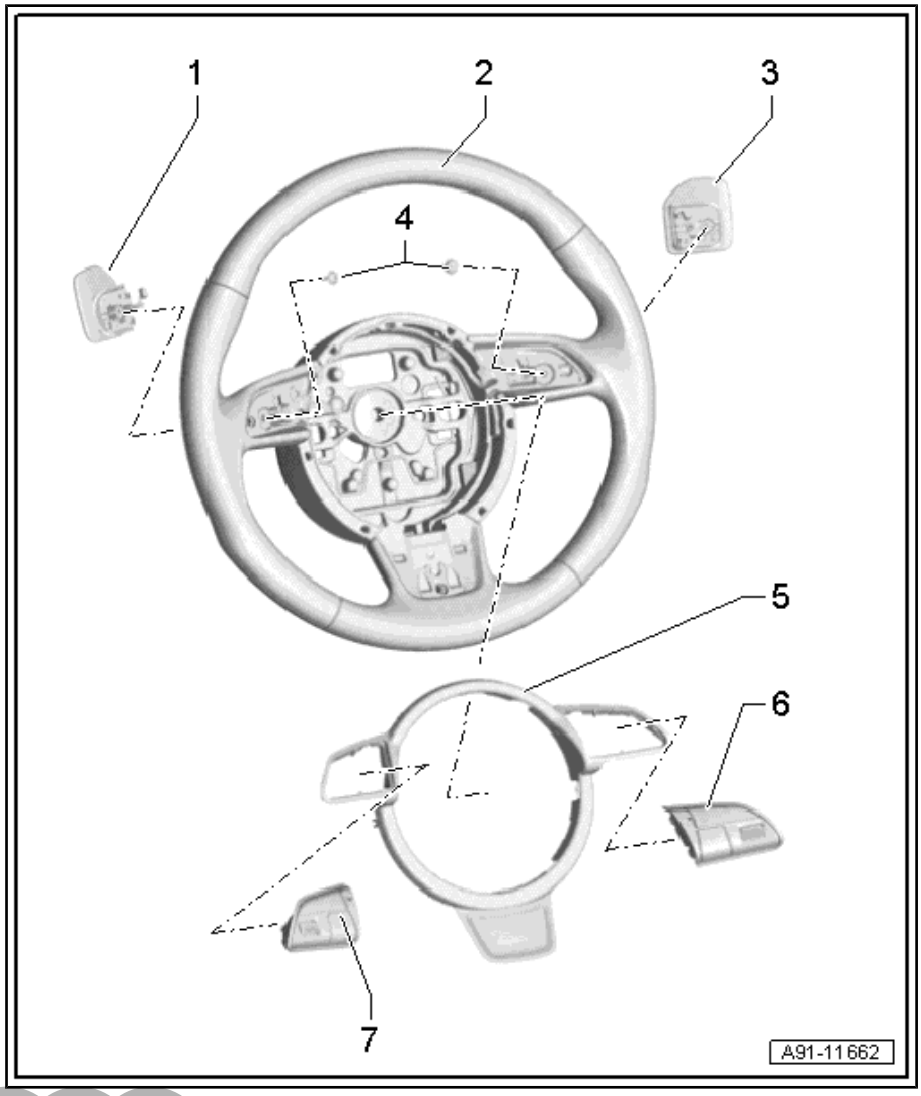
5 - Trim panel

6 - Multifunction buttons on right in steering wheel - E441-

- ❑ Removing and installing ⇒ page 149

7 - Multifunction buttons on left in steering wheel - E440-

- ❑ Removing and installing ⇒ page 149



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8.2.2 Exploded view - multi-function steering wheel, steering wheel with trapezium-shaped airbag

1 - Tiptronic switch in steering wheel to shift down - E439-

- ❑ Removing and installing ⇒ page 153

2 - 3-spoke steering wheel

3 - Tiptronic switch in steering wheel to shift up - E438-

- ❑ Removing and installing ⇒ page 153

4 - Bolt

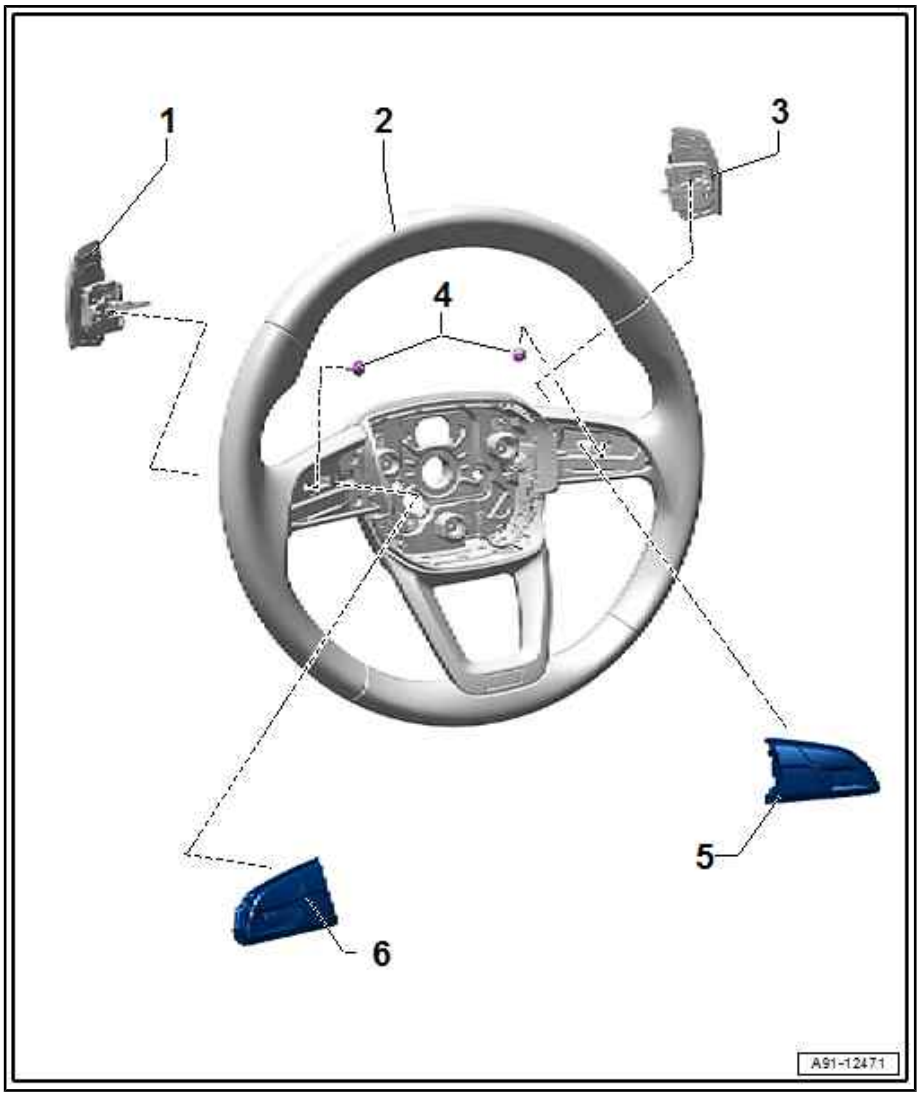
- ❑ 1 Nm

5 - Multifunction buttons on right in steering wheel - E441-

- ❑ Removing and installing ⇒ page 152

6 - Multifunction buttons on left in steering wheel - E440-

- ❑ Removing and installing ⇒ page 152



8.3 Removing and installing multifunction buttons in steering wheel -E441- / -E440-

⇒ "8.3.1 Removing and installing multifunction buttons in steering wheel E441 / E440 , steering wheel with round airbag", page 149

⇒ "8.3.2 Removing and installing multifunction buttons in steering wheel E441 / E440 , steering wheel with trapezium-shaped airbag", page 152

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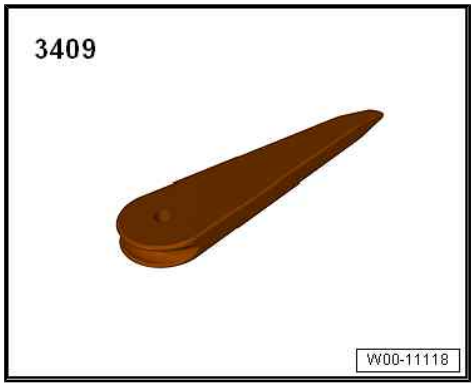
8.3.1 Removing and installing multifunction buttons in steering wheel -E441- / -E440- , steering wheel with round airbag

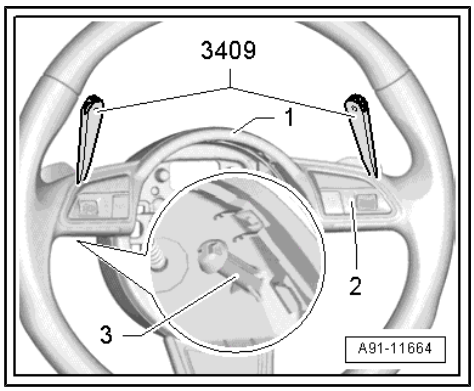
Special tools and workshop equipment required

♦ Removal wedge - 3409-



The multifunction buttons -2- are clipped into the trim panel -1-. The trim panel -1- is secured on the steering wheel together with the multifunction buttons -2-. Each multifunction button -2- has two extra retainers -3-.

When removing, ensure that you loosen trim panel -1- by hand first (approx. 5 mm). Then disengage retainers -3- for multifunction buttons -2- using removal wedge - 3409- and, finally, pull off trim panel -1- together with multifunction buttons -2-.

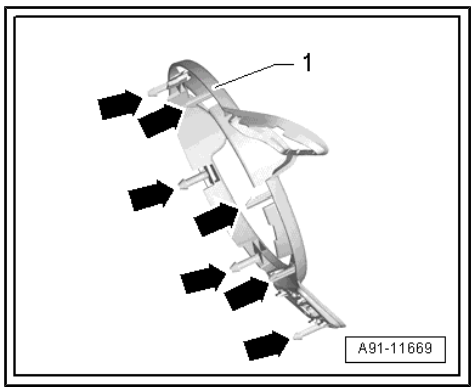


Retainers for trim panel

1 - Trim panel

Arrows - retainers

Removing

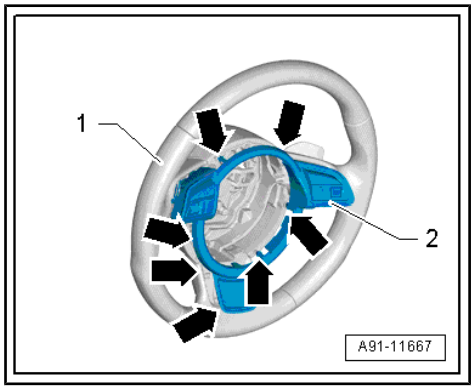


– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove driver airbag ⇒ General body repairs, interior; Rep. gr. 69 ; Removing and installing airbag (driver side); Exploded view - airbag (driver side) .

– Take connecting wires out of their guides in steering wheel.

– Slightly loosen trim panel -2- together with multifunction buttons -arrows- by hand and pull it out of steering wheel -1- (by approx. 5 mm).



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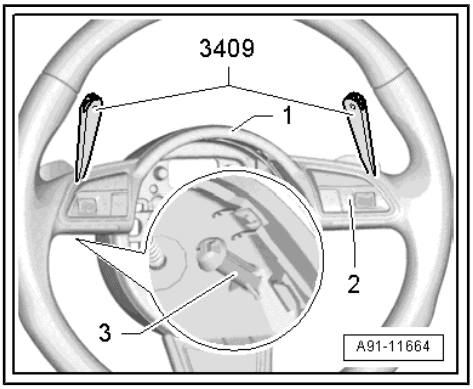
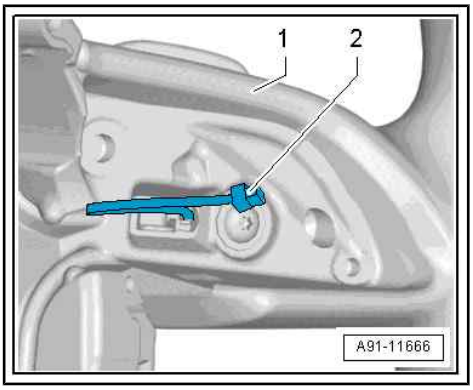
– Disengage multifunction buttons -2- in area of retainers -3- (on inside of multifunction buttons) using removal wedge - 3409- . To do so, apply removal wedge - 3409- first on top and then on bottom of multifunction buttons -2-.



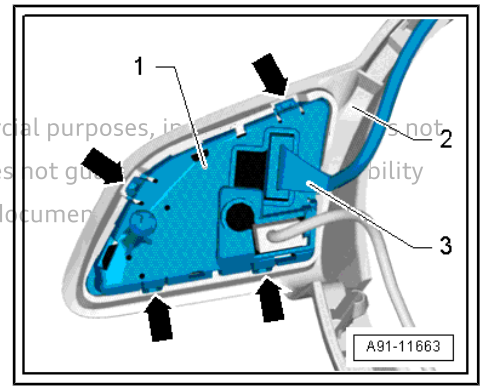
– At the same time, pay attention to connectors leading to tiptronic switches -2-.
– Release and unplug connector -2- at multifunction buttons.
– Detach trim panel together with multifunction buttons from steering wheel.

The multifunction buttons are clipped into the trim panel.



– Release and unplug connector -3- at multifunction button -1-.
– Release clips -arrows- and press multifunction button -1- out of trim panel -2-.

The additional wiring on the multifunction button (right-side) remains attached to the multifunction button.



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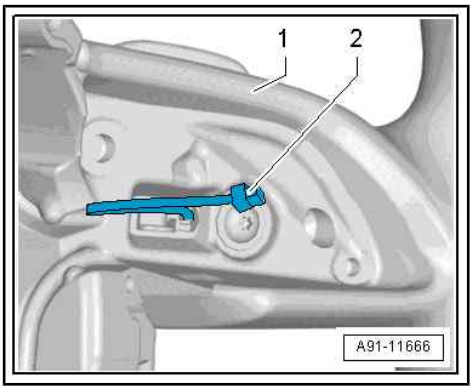
Installing

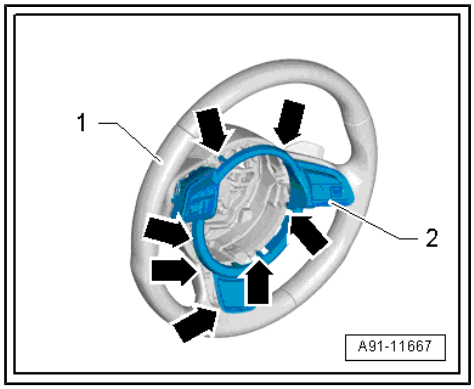
Installation is carried out in reverse order; note the following:

– Position trim panel on steering wheel with multifunction buttons fitted.



– Ensure connecting wiring -2- for tiptronic switches is routed as shown in illustration.
– Route remaining connecting wiring, including connectors, through guides in steering wheel.

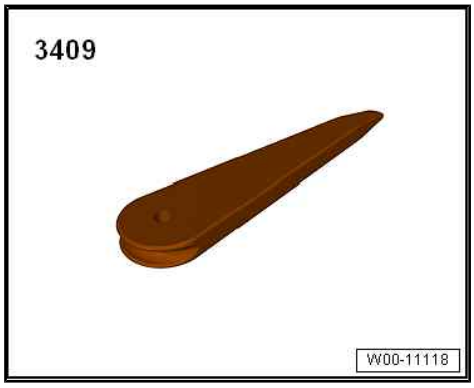
– Push trim panel -2- together with multifunction buttons onto steering wheel -1- until they engage properly.
– Finally, check again that wiring in steering wheel is correctly routed.



8.3.2 Removing and installing multifunction buttons in steering wheel -E441- / -E440- , steering wheel with trapezium-shaped airbag

Special tools and workshop equipment required

♦ Removal wedge - 3409-



The multifunction buttons are engaged in the steering wheel.

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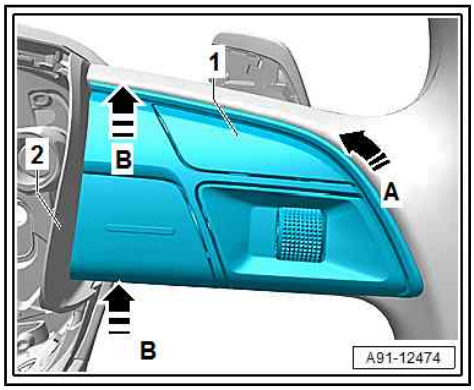
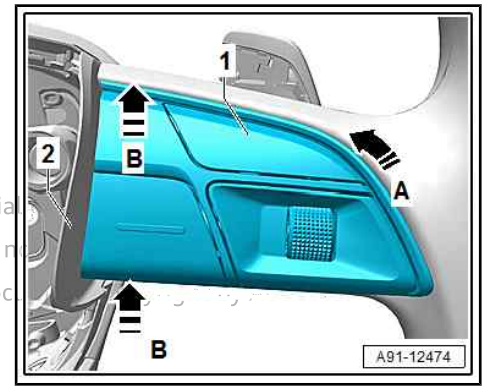
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove airbag (driver side) ⇒ General body repairs, interior; Rep. gr. 69 ; Airbag (driver side); Removing and installing air-bag unit with igniters .
– Disengage and remove trim panel -2-.



– Disengage multifunction button -1- in area of retainer -arrow B- using removal wedge - 3409- .
– Then pry off multifunction button -1- on other side -arrow A- using removal wedge - 3409- .
– Release and unplug connectors on multifunction button.



Installing

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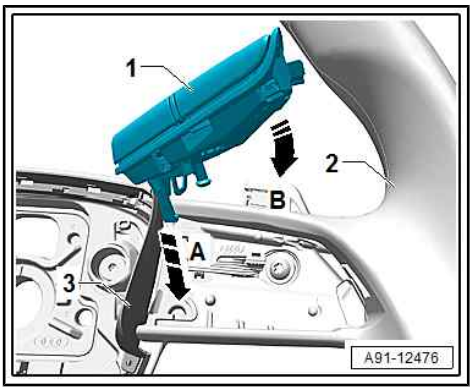
Installation is carried out in reverse order; note the following:

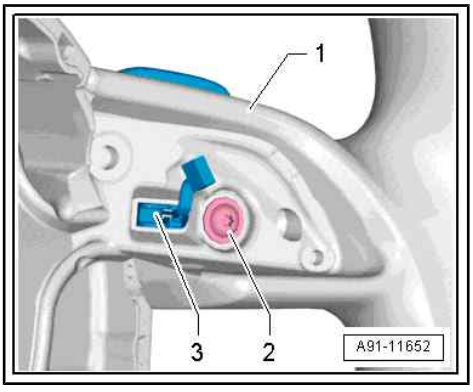
– Connect and lock connectors on multifunction button.
– Fit multifunction button -1- on inside and engage it -arrow A-.
– Fit multifunction button -1- on outside and engage it -arrow B-.
– Fit and engage trim panel -3-.



8.4 Removing and installing tiptronic switches in steering wheel -E439- / -E438-

Removing

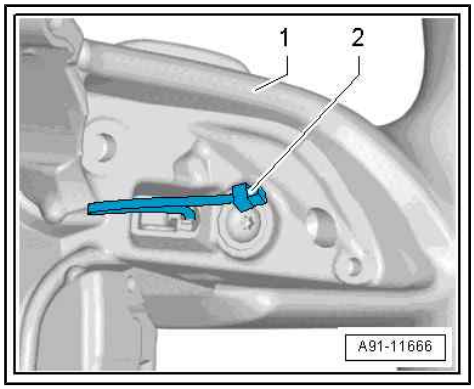
– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove trim panel with multifunction buttons ⇒ page 149 .
– Remove bolt -2- on steering wheel -1- and detach tiptronic switch -3- with connecting wire towards rear.



Installing

Installation is carried out in reverse order; note the following:

– Note position of connecting wire -2- to multifunction button.



Tightening torques

- ⇒ “8.2 Exploded view - multi-function steering wheel”, page 147

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9 Connection for external multimedia devices

⇒ “9.1 Layout - connection for external multimedia devices”, page 155

⇒ “9.2 Removing and installing connection for external audio sources R199 ”, page 156

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9.1 Layout - connection for external multimedia devices

The connection for external audio sources - R199- is available in several versions:

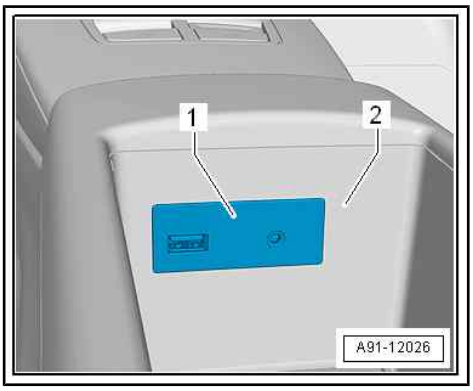
- AMI - USB charging, AUX IN, UE4
- AMI - 2x USB connection, AUX IN, ASI, UI2/UE7

»USB charging« and »USB connection« are USB hub - R293- with USB connection 1 - U41- / USB connection 2 - U42- .

AMI - Audi music interface

ASI - Audi smartphone interface

The connection for external audio sources - R199- is part of the control unit 1 for information electronics - J794- .

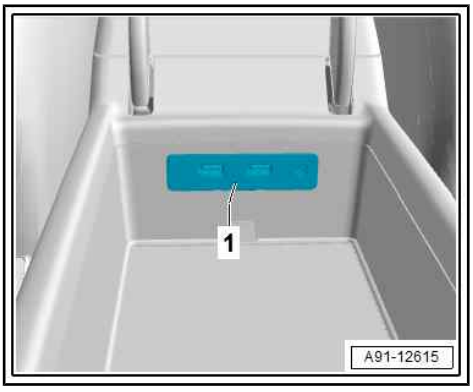


Fitting location of AMI - USB connection holder - R193- , USB charging, AUX IN, UE4

Connections -1- are located in centre console storage compartment -2-.

Various external devices can be charged using the USB connection.

- iPod, iPhone
- MP3 player
- Smartphones
- Tablet PCs



Fitting location of AMI - USB hub - R293- / USB connection 1 - U41- / USB connection 2 - U42- , AUX IN, ASI, UI2/UE7

Interfaces are located in centre console storage compartment.

The USB sockets are fully wired. Various devices can be connected.

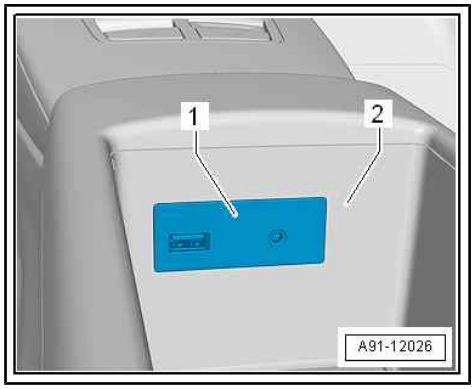
- iPod, iPhone
- MP3 player
- USB sticks
- Smartphones
- Tablet PCs

Appropriate adapter cables are required ⇒ Owner's Manual .

Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

9.2 Removing and installing connection for external audio sources - R199-

Connection for external audio sources - R199- -1- is located in storage compartment in centre console -2-.



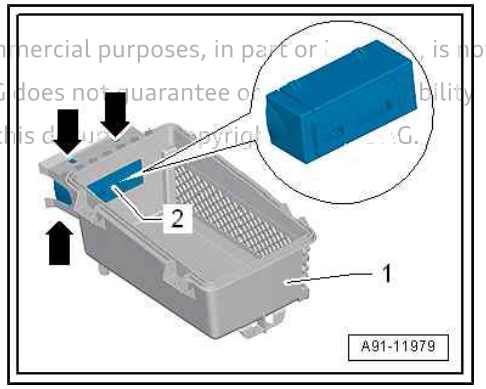
Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove centre console storage compartment ⇒ General body repairs, interior; Rep. gr. 68 ; Centre console; Exploded view - centre console .

– Release and unplug connectors on connection for external audio sources - R199- .

– Press tabs -arrows- on connection for external audio sources - R199- -2- and pull connection for external audio sources - R199- -2- out of storage compartment -1-.



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Installing

Installation is carried out in reverse sequence.

10 Overhead view camera

⇒ “10.1 Layout - overhead view camera system”, page 157

⇒ “10.2 Overview of fitting locations - overhead view camera”, page 159

⇒ “10.3 Removing and installing control unit for overhead view camera J928 ”, page 159

⇒ “10.4 Removing and installing rear overhead view camera R246 ”, page 160

⇒ “10.5 Removing and installing front overhead view camera R243 ”, page 162

⇒ “10.6 Removing and installing right and left overhead view cameras R244 / R245 ”, page 163

⇒ “10.7 Calibrating overhead view camera”, page 164

10.1 Layout - overhead view camera system

The overhead view camera system (KA6) consists of four cameras. They are located in the radiator grille, in both exterior mirrors and in the rear lid. The system helps the driver when parking, manoeuvring or when driving in tight spaces (such as driveways). Camera images are displayed on display unit for front information display and operating unit control unit - J685- (display).

Camera views available to be selected:

- Bird's eye view: The images from all four cameras (front overhead view camera - R243- / left overhead view camera - R244- / right overhead view camera - R245- / rear overhead view camera - R246-) give a panorama view of the whole vehicle.
- Front camera: The image from the camera in the radiator grille (front overhead view camera - R243-) shows the area in front of the vehicle (up to the left and right edges of the bumper).
- Side cameras: The images from the cameras in the left and right exterior mirrors (left overhead view camera - R244- / right overhead view camera - R245-) show the area close to the sides of the vehicle.
- Rear camera: The image from the reversing camera in the rear lid (rear overhead view camera - R246-) shows the area behind the vehicle.

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Components of overhead view camera system:

- Front overhead view camera - R243-
- Left overhead view camera - R244-
- Right overhead view camera - R245-
- Rear overhead view camera - R246-
- Control unit for overhead view camera - J928-
- Control unit 1 for information electronics - J794-
- Display unit for front information display and operating unit control unit - J685-

As an option, other control units may also be installed.

Do not fit an additional number plate on vehicles equipped with overhead view camera system as this will impair the function of the system.

Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

1 - Display unit for front information display and operating unit control unit - J685- in dash panel (centre)

2 - Control unit 1 for information electronics - J794- in glove box

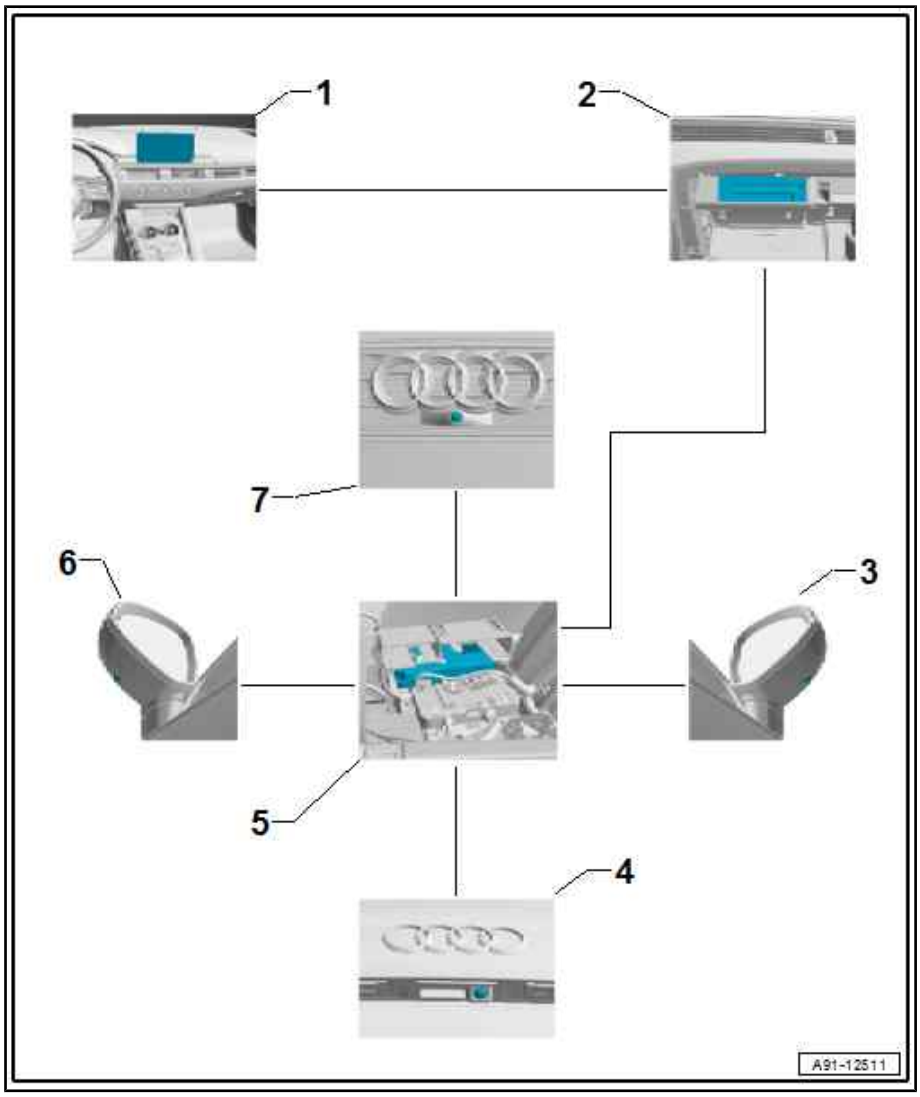
3 - Right overhead view camera - R245- in exterior mirror (right-side)

4 - Rear overhead view camera - R246- in handle in rear lid

5 - Control unit for overhead view camera - J928- located in luggage compartment (rear left)

6 - Left overhead view camera - R244- in exterior mirror (left-side)

7 - Front overhead view camera - R243- in radiator grille



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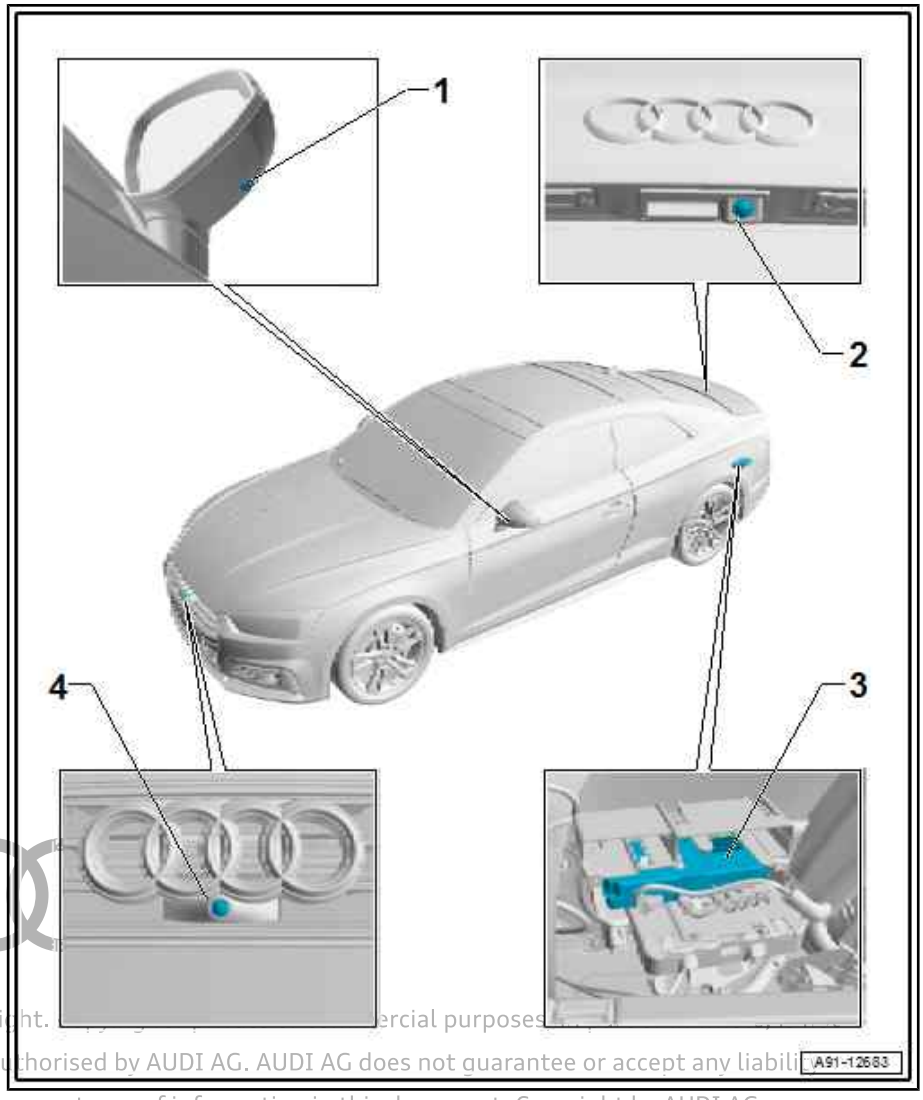
10.2 Overview of fitting locations - overhead view camera

Note

The fitting locations are shown on a Coupé model. The fitting locations are the same for other vehicle versions.



1 - Right overhead view camera - R245- , left overhead view camera - R244-

- ❑ Removing and installing ⇒ page 163
- ❑ Bolts for retainer: 2 Nm
- ❑ Calibration ⇒ page 164

2 - Rear overhead view camera - R246-

- ❑ Removing and installing (Coupé/Sportback) ⇒ page 160
- ❑ Removing and installing (Cabriolet) ⇒ page 161
- ❑ Bolt/nut for bracket (Cabriolet): 4 Nm
- ❑ Calibration ⇒ page 164

3 - Control unit for overhead view camera - J928-

- ❑ Behind luggage compartment side trim (left-side)
- ❑ ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- ❑ Removing and installing ⇒ page 159
- ❑ Calibration ⇒ page 164

4 - Front overhead view camera - R243-

- ❑ Removing and installing ⇒ page 162
- ❑ Bolts: 3 Nm
- ❑ Calibration ⇒ page 164

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10.3 Removing and installing control unit for overhead view camera - J928-

The control unit for overhead view camera - J928- is located behind the luggage compartment side trim (left-side).

Note

If control unit is to be renewed, select the "Replace control unit" function for appropriate control unit in ⇒ Vehicle diagnostic tester.

Removing

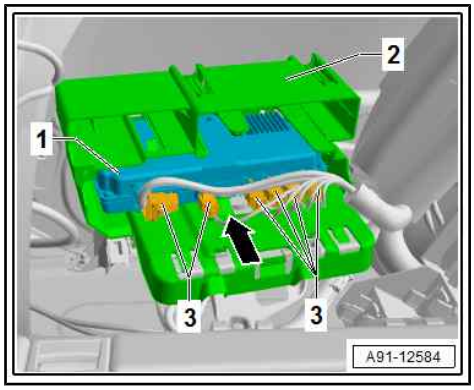
– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove cover in luggage compartment side trim (left-side) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Exploded view - luggage compartment side trim .

– Release and unplug electrical connectors -3-.

– Press fastener -arrow- downwards.

– Pull control unit for overhead view camera - J928- -1- towards centre out of bracket -2-.



Installing

Installation is carried out in reverse order; note the following:

– Perform calibration ⇒ page 164 .

10.4 Removing and installing rear overhead view camera - R246-

⇒ “10.4.1 Removing and installing rear overhead view camera R246 - Coupé/Sportback”, page 160

⇒ “10.4.2 Removing and installing rear overhead view camera R246 - Cabriolet”, page 161

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10.4.1 Removing and installing rear overhead view camera - R246- - Coupé/Sportback

Rear overhead view camera - R246- is installed inside handle of rear lid and is permanently fitted in handle.

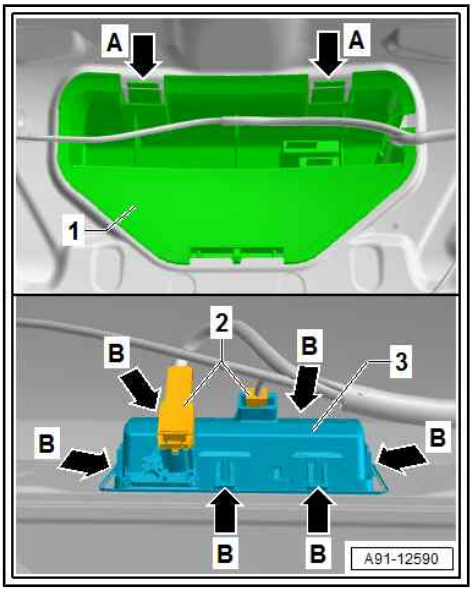
When renewing the rear overhead view camera - R246- the handle must also be renewed.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove rear lid trim (bottom) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Removing and installing rear lid trim (bottom) .

– Disengage catches -arrows A-.
– Remove anti-theft protection -1- from rear lid.
– Release and unplug electrical connectors -2-.
– Release catches -arrows B-.
– Remove handle -3- from rear lid.



Installing

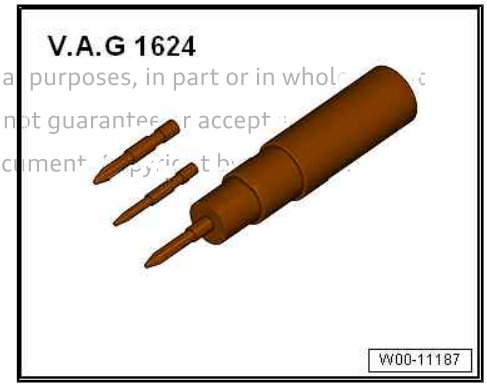
Installation is carried out in reverse order; note the following:

– Close rear lid.
– Perform calibration ⇒ page 162 .

10.4.2 Removing and installing rear overhead view camera - R246- - Cabriolet

Special tools and workshop equipment required

♦ Torque screwdriver - V.A.G 1624-



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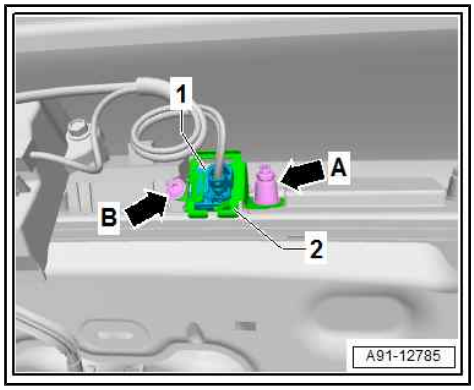
Rear overhead view camera - R246- is installed in handle trim in rear lid.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove rear lid trim (bottom) ⇒ General body repairs, interior; Rep. gr. 70 ; Luggage compartment trim panels; Exploded view - rear lid trim (bottom) .

– Release and unplug electrical connector for rear overhead view camera - R246- -1-.
– Remove nut -arrow A-.
– Unscrew bolt -arrow B-.
– Detach bracket -2-.
– Pull rear overhead view camera - R246- -1- out of handle trim.



Installing

Installation is carried out in reverse order; note the following:

– Close rear lid.
– Perform calibration.

Tightening torques

Component	Tightening torque
Nut to handle trim	4 Nm
Bolt to rear overhead view camera - R246-	4 Nm

10.5 Removing and installing front overhead view camera - R243-

Special tools and workshop equipment required

♦ Torque screwdriver - V.A.G 1624-

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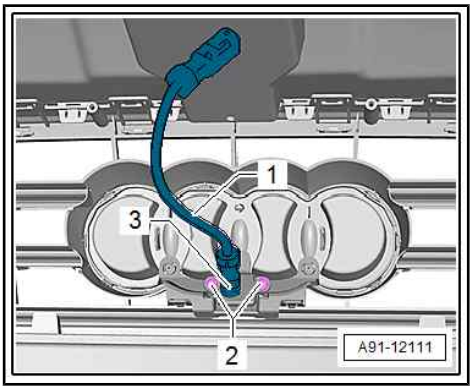
Front overhead view camera - R243- is installed in radiator grille below Audi rings.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove front bumper cover ⇒ General body repairs, exterior; Rep. gr. 63 ; Bumper (front); Removing and installing bumper cover .

– Remove bolts -2- on retaining plate for front overhead view camera - R243- -3-.
– Detach front overhead view camera - R243- -3- with retaining plate from bumper cover (front).
– Release and unplug wiring -1- from front overhead view camera - R243- -3-.



Installing

Installation is carried out in reverse order; note the following:

– Perform calibration ⇒ page 164 .

Tightening torques

◆ ⇒ “10.2 Overview of fitting locations - overhead view camera”, page 159

10.6 Removing and installing right and left overhead view cameras -R244- / -R245-

Special tools and workshop equipment required

◆ Torque screwdriver - V.A.G 1624-

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Right and left overhead view cameras -R244- / -R245- are located in exterior mirrors.

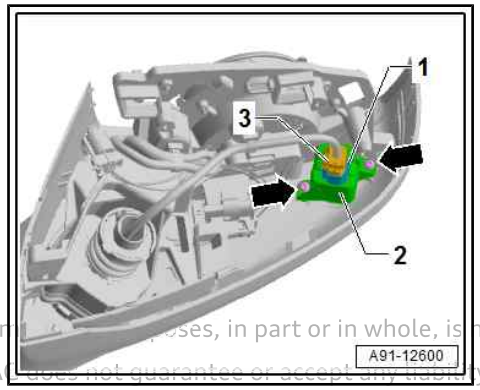
Note

The procedure for removal/installation on the left side is described; the procedure for the right side is similar.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove turn signal in exterior mirror ⇒ Electrical system; Rep. gr. 94 ; Lights in exterior mirror; Removing and installing turn signal .

– Remove bolts -arrows-.
– Remove left overhead view camera - R244- -1- from exterior mirror with bracket -2-.
– Release and unplug electrical connector -3-.
– Detach left overhead view camera - R244- -1- from bracket -2-.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

- ⇒ “10.2 Overview of fitting locations - overhead view camera”, page 159

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10.7 Calibrating overhead view camera

⇒ “10.7.1 Setting up and aligning calibration unit VAS 721 001 ”, page 164

⇒ “10.7.2 Calibrating overhead view camera system”, page 166

10.7.1 Setting up and aligning calibration unit - VAS 721 001-

After performing service work on the vehicle it might be necessary to re-calibrate the overhead view camera system. This is required after:

- Renewal of one or more cameras
- Renewal of control unit for overhead view camera - J928-
- Flashing of software of control unit for overhead view camera - J928-
- Writing data to control unit for overhead view camera - J928-
- Repair work on components in which a camera is installed or which affect camera installation position
- Wheel alignment
- Misalignment in overlapping areas of individual camera images
- Changes to the suspension height of more than 5 mm on an axle
- Changes to the suspension height of more than 10 mm on the entire vehicle

Requirements for vehicle calibration

- Camera lenses must be clean; they must only be cleaned with a damp cloth.
- Check camera images on display unit for front information display and operating unit control unit - J685- . If the image is affected by a damaged camera, renew this camera. If the image is not straight, check that this camera is properly secured.
- Both exterior mirrors must be folded out.
- Parking brake must be activated.
- Steering wheel must be in centre position, wheels must be straight.
- All doors and the rear lid must be closed.
- There must not be anyone inside the vehicle.

- Vehicle must not be loaded (unladen weight).
- Battery charger must be connected but must not be in the field of vision of the cameras.
- The ignition must be switched on.
- The system must be active and must be being displayed on the display unit for front information display and operating unit control unit - J685- .
- Do not move vehicle during the calibration process.

Requirements for the calibration workplace/calibration area

- Calibration area must be level
- No objects in the calibration area to avoid lines being incorrectly detected
- Uniform light conditions (no headlights or direct lighting). Avoid significant differences in lighting.

Special tools and workshop equipment required

- Calibration unit - VAS 721 001-
- ⇒ Vehicle diagnostic tester

Overview of calibration equipment - VAS 721 001- when set up

WARNING

Make sure no light is reflected on calibration unit - VAS 721 001- .

Reflected light impairs the view of the cameras and therefore it may be impossible to perform calibration.

Note

The vehicle in the illustration is only intended to serve as an example.

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1 - Left calibration unit

2 - Front overhead view camera - R243-

- ❑ Calibrating ⇒ page 166

3 - Right calibration unit

4 - Right overhead view camera - R245-

- ❑ Calibrating ⇒ page 166

5 - Rear overhead view camera - R246-

- ❑ Calibrating ⇒ page 166

6 - Left overhead view camera - R244-

- ❑ Calibrating ⇒ page 166

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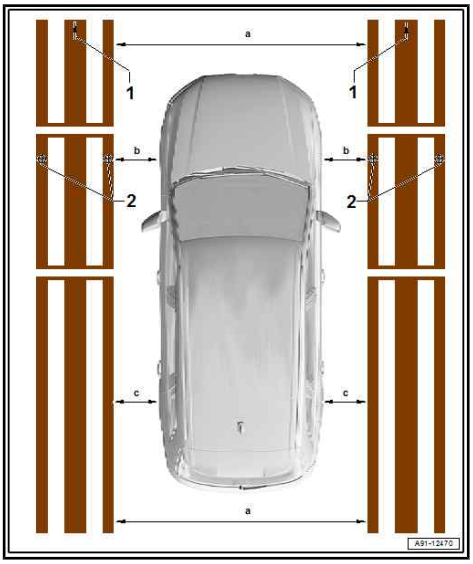
10.7.2 Calibrating overhead view camera system

– Vehicle must be on a level surface.



Note

The vehicle in the illustration is only intended to serve as an example.

– Roll calibration unit - VAS 721 001- out to the left and right sides of the vehicle.
– Fit retaining strips on front and rear of calibration unit - VAS 721 001- .
– Align crosshairs -2- with the vehicle's front axle (centre of front wheel).
– Align both calibration units so they are parallel. The vehicle must be located centrally between both calibration units.

Note the following dimension requirements:

- Dimension -a- = 2000 to 2500 mm ± 5 mm (same at front and rear)
- Dimension -b- must be the same on both sides
- Dimension -c- must be the same on both sides

– Ensure that the requirements for the vehicle are met ⇒ page 164 .
– Connect ⇒ Vehicle diagnostic tester.

Performing calibration

– Select `Diagnosis` mode and begin diagnosis.
– Select `Test plan` tab.
– Choose `Select own test` and select following options one after the other:

♦ Body
♦ Electrical system
♦ 01 - Self-diagnosis compatible systems
♦ 6C - Control unit for overhead view camera | J928
♦ 6C - Control unit for overhead view camera, functions
♦ 6C - Calibration (Rep. gr. 91)

Further instructions are given by ⇒ Vehicle diagnostic tester during calibration procedure.

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11 Mobile online services

⇒ “11.1 Layout - mobile online services”, page 168

⇒ “11.2 Overview of fitting locations - mobile online services”, page 172

⇒ “11.3 Removing and installing emergency call module control unit and communication unit J949 ”, page 177

⇒ “11.4 Removing and installing loudspeaker for emergency call module R335 ”, page 179

11.1 Layout - mobile online services

⇒ “11.1.1 Layout - mobile online services, all except Russia, IW3/IW5, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 168

⇒ “11.1.2 Layout - mobile online services, all except Russia, IW3/IW5, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 170

⇒ “11.1.3 Layout - mobile online services, Russia only, IW1”, page 171

11.1.1 Layout - mobile online services, all except Russia, IW3/IW5, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)

The mobile online services are based on the eCall system (connected gateway, data bus diagnostic interface - J533-).

The data bus diagnostic interface - J533- is fitted under the rear seat bench for maximum protection in the event of an accident. The data bus diagnostic interface - J533- contains an emergency call module and a compass module. A SIM card is permanently fitted for the emergency call and breakdown call functions.

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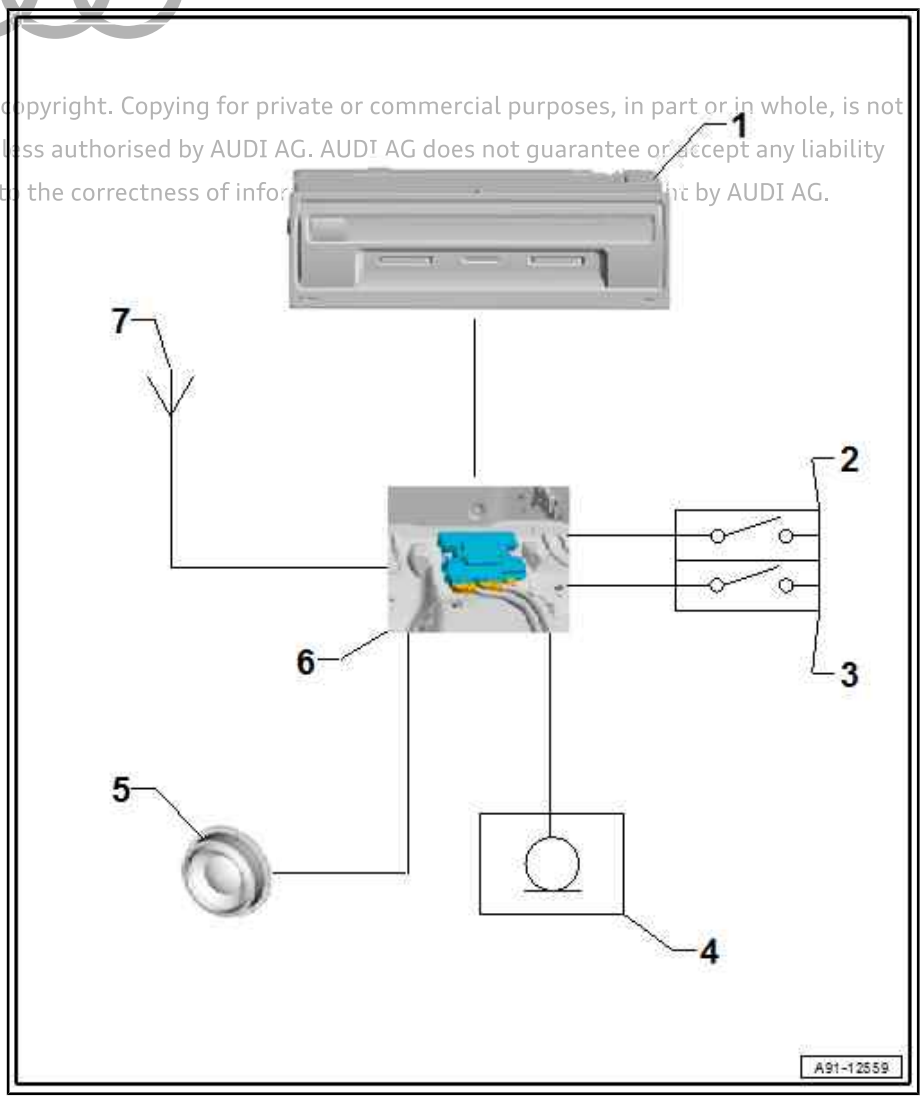

1 - Control unit 1 for information electronics - J794- in glove box

2 - Breakdown help button - E275- in interior light (front) - W1-

3 - Emergency assistance call button - E276- in front interior light - W1-

4 - Front left microphone - R140- , microphone unit in front roof module - R164- in front interior light - W1-

5 - Loudspeaker for emergency call module - R335- in dash panel cover (driver's side)

6 - Data bus diagnostic interface - J533- beneath rear seat bench

7 - GPS aerial - R50- in roof aerial - R216- , Coupé/Sportback

- GPS aerial - R50- in convertible roof compartment lid, Cabriolet

- Emergency call module aerial - R263- under dash panel (front centre), 4GF/4GS only, Coupé/Sportback

- Emergency call module aerial - R263- under dash panel (front centre), Cabriolet

- Emergency call module aerial - R263- under rear shelf, 4GR/4GY only, Coupé

- Emergency call module aerial - R263- at belt guide (left-side), 4GR/4GY only, Sportback

- Emergency call module aerial 2 - R322- under dash panel (front centre), 4GR/4GY only, Coupé/Sportback

- Emergency call module aerial 2 - R322- on bracket for data bus diagnostic interface - J533- , Cabriolet

Fault finding

The mobile online services system also has self-diagnosis capability.

Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

To be able to diagnose and deal with problems, it is essential to be familiar with the functions of the mobile online services.

For additional information, refer to the ⇒ Owner's Manual and ⇒ Current flow diagrams, Electrical fault finding and Fitting locations.

11.1.2 Layout - mobile online services, all except Russia, IW3/IW5, from model year 2019 onwards with connect package plus (IV1 to IV8)

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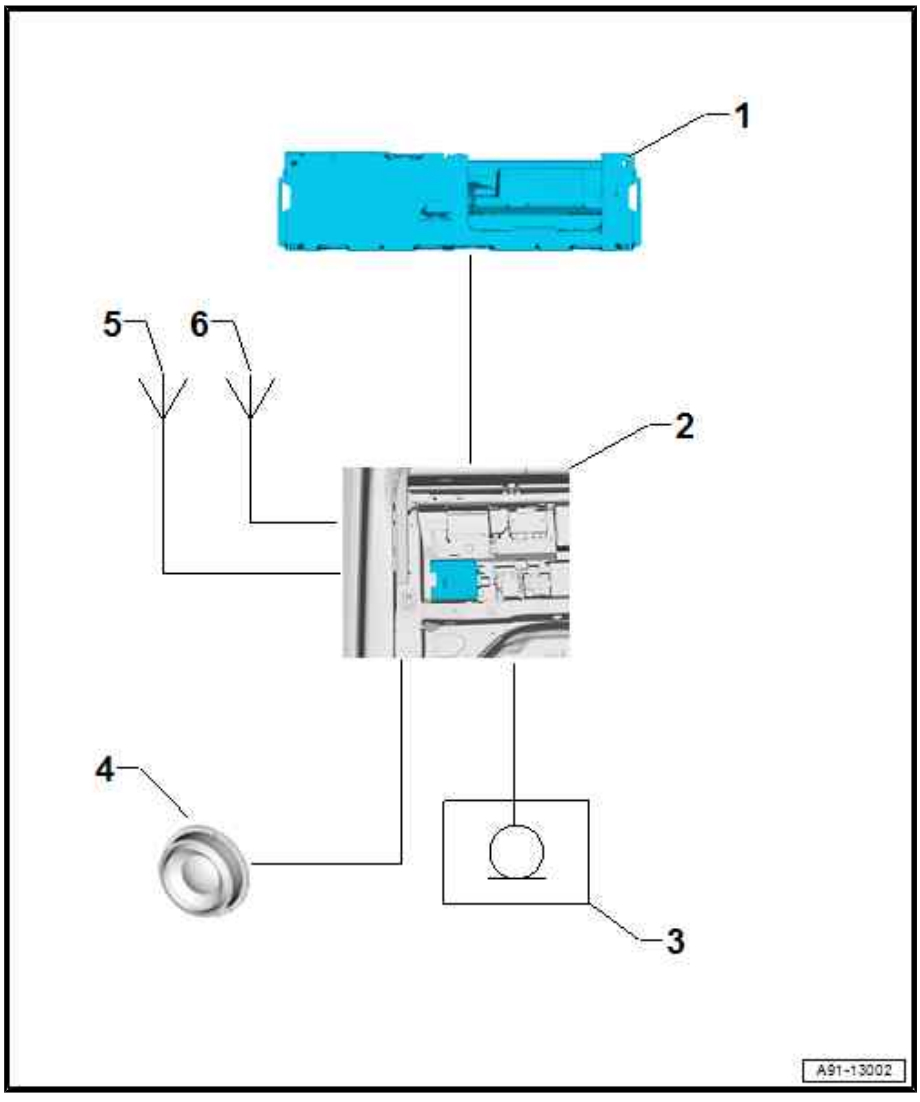
The mobile online services are based around the eCall and bCall systems and use the emergency call module control unit and communication unit - J949- .

The emergency call module control unit and communication unit - J949- is installed in the luggage compartment so it is protected in the event of a crash. The emergency call module control unit and communication unit - J949- contains an emergency call module and a compass module. A SIM card is permanently fitted for the emergency call function.



1 - Control unit 1 for information electronics - J794- in glove box

2 - Emergency call module control unit and communication unit - J949- in luggage compartment (front left), Coupé/Sportback

Emergency call module control unit and communication unit - J949- under rear seat bench (right-side), Cabriolet

3 - Front left microphone - R140- / front right microphone - R141- , microphone unit in front roof module - R164- in front roof module - WX3-

4 - Loudspeaker for emergency call module - R335- in dash panel cover (driver's side)

5 - GPS aerial - R50- in roof aerial - R216- , Coupé/Sportback

- GPS aerial - R50- in convertible roof compartment lid, Cabriolet

6 - Emergency call module aerial - R263- / emergency call module aerial 2 - R322-

- Emergency call module aerial - R263- under rear shelf, Coupé

- Emergency call module aerial - R263- on belt guide (left-side), Sportback

- Emergency call module aerial - R263- on bracket for data bus diagnostic interface - J533- , Cabriolet

- Emergency call module aerial 2 - R322- in roof aerial - R216- , Coupé/Sportback

- Emergency call module aerial 2 - R322- in convertible roof compartment lid, Cabriolet

Fault finding

The mobile online services system also has self-diagnosis capability.

Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

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To be able to diagnose and deal with problems, it is essential to be familiar with the functions of the mobile online services.

For additional information, refer to the ⇒ Owner's Manual and ⇒ Current flow diagrams, Electrical fault finding and Fitting locations.

11.1.3 Layout - mobile online services, Russia only, IW1

The mobile online services are based on the eCall system (connected gateway, data bus diagnostic interface - J533-).

The data bus diagnostic interface - J533- is fitted under the rear seat bench for maximum protection in the event of an accident. The data bus diagnostic interface - J533- contains an emergency call module and a compass module. A SIM card is permanently fitted for the emergency call and breakdown call functions.

1 - Control unit 1 for information electronics - J794- in glove box

2 - Not fitted

3 - Emergency assistance call button - E276- in front interior light - W1-

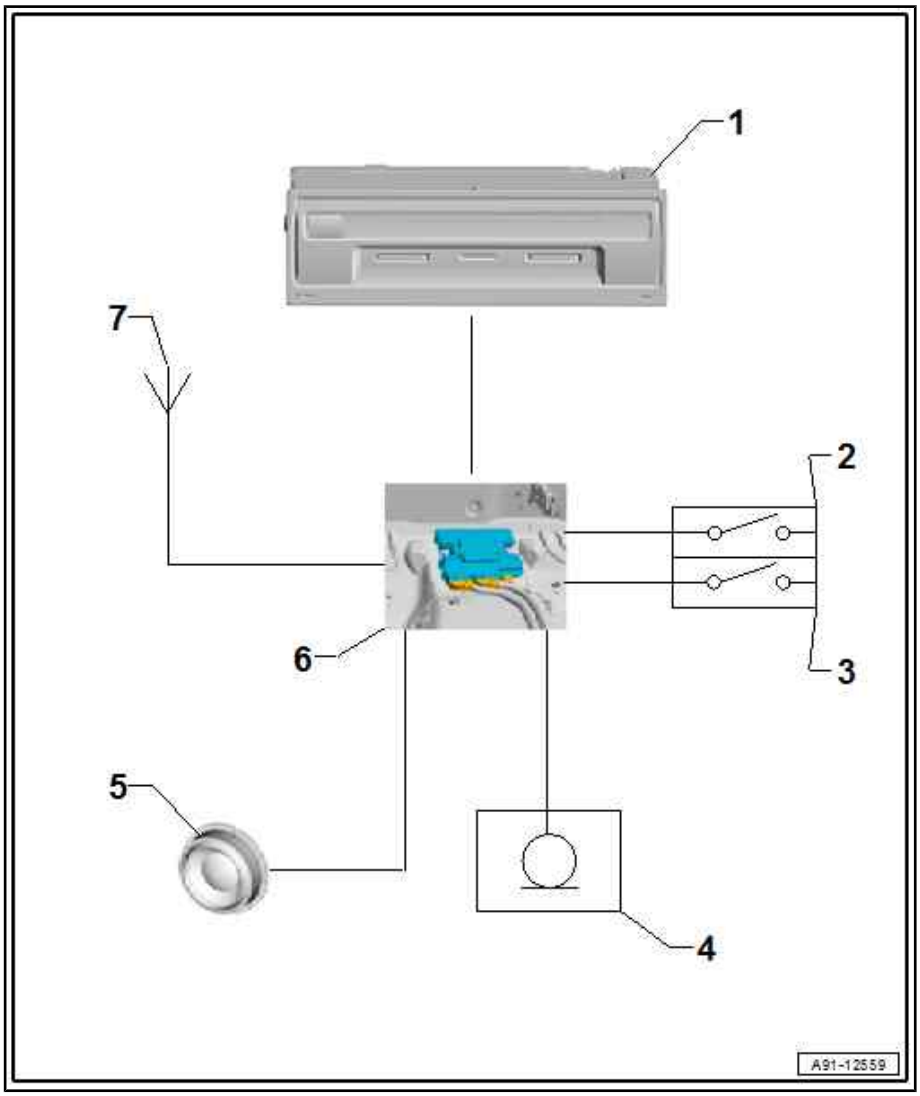
4 - Front left microphone - R140- , microphone unit in front roof module - R164- in front interior light - W1-

5 - Loudspeaker for emergency call module - R335- in dash panel cover (driver's side)

6 - Data bus diagnostic interface - J533- beneath rear seat bench

7 - GPS aerial - R50- in roof aerial - R216-

- Emergency call module aerial - R263- in roof aerial - R216-



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Fault finding

The mobile online services system also has self-diagnosis capability.

Fault finding is performed via “Guided Fault Finding” ⇒ Vehicle diagnostic tester.

To be able to diagnose and deal with problems, it is essential to be familiar with the functions of the mobile online services.

For additional information, refer to the ⇒ Owner's Manual and ⇒ Current flow diagrams, Electrical fault finding and Fitting locations.

ERA-GLONASS (Russia) only: Perform initial start-up ⇒ Maintenance ; Booklet 820 ; Maintenance ; ERA-GLONASS: checking emergency call function.

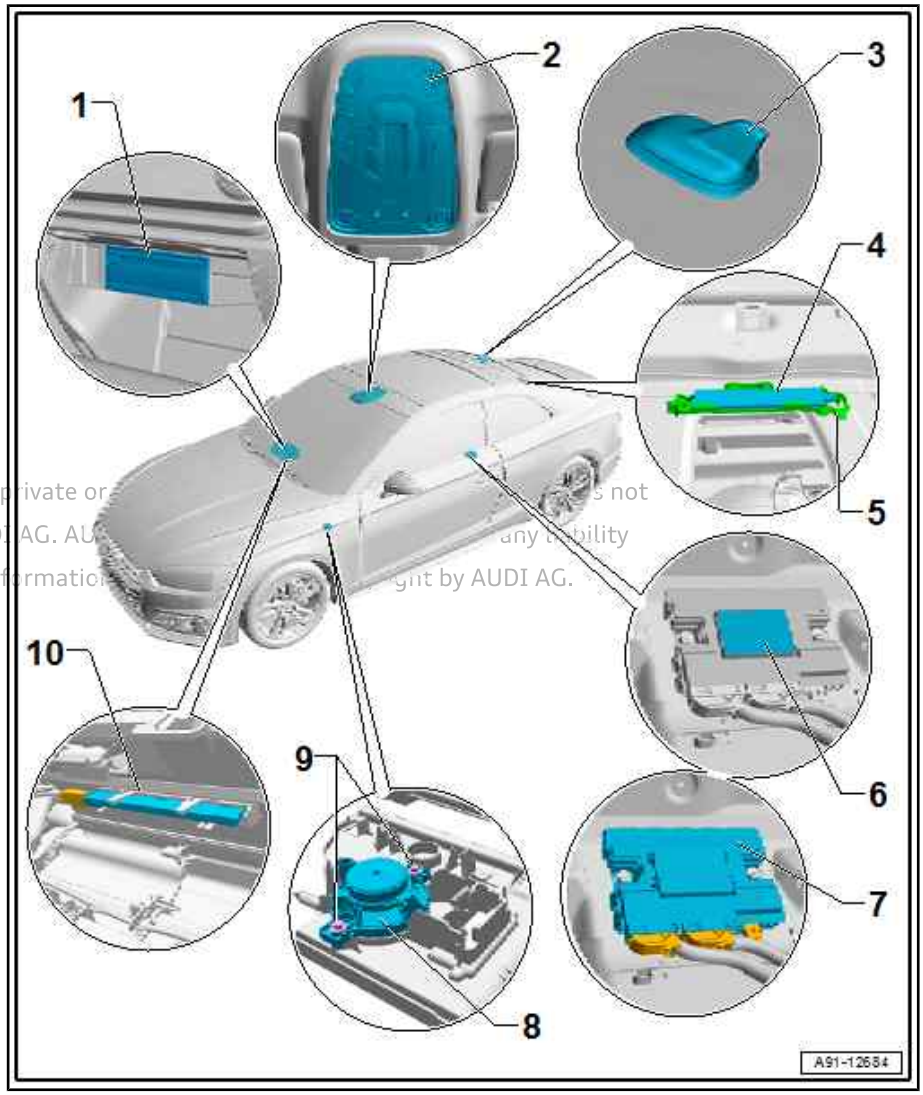
11.2 Overview of fitting locations - mobile online services

⇒ “11.2.1 Overview of fitting locations - mobile online services, all except Russia, IW3/IW5, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)”, page 172

⇒ “11.2.2 Overview of fitting locations - mobile online services, all except Russia, IW3/IW5, from model year 2019 onwards with connect package plus (IV1 to IV8)”, page 174

⇒ “11.2.3 Overview of fitting locations - mobile online services, Russia only, IW1”, page 176

11.2.1 Overview of fitting locations - mobile online services, all except Russia, IW3/IW5, up to model year 2018 and from model year 2019 onwards without connect package plus (IV0)



1 - Control unit 1 for information electronics - J794-

- In glove box
- Pin assignment ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- Removing and installing ⇒ page 10

2 - Front interior light - W1-

- With breakdown assistance call button - E275- / emergency assistance call button - E276- / front left microphone - R140-
- Removing and installing ⇒ Electrical system; Rep. gr. 96 ; Controls; Removing and installing interior light/reading light (front)

3 - GPS aerial - R50-

- In roof aerial - R216- on Coupé/Sportback
- On convertible roof compartment lid (left-side) on Cabriolet
- Removing and installing ⇒ page 89

4 - Emergency call module aerial - R263-

- 4GR/4GY only
- Removing and installing on Coupé (under rear shelf) ⇒ page 95
- Removing and installing on Sportback (at belt guide, rear left) ⇒ page 95

- Emergency call module aerial 2 - R322-

- Cabriolet - on bracket for data bus diagnostic interface - J533- underneath rear seat bench
- Removing and installing ⇒ page 99

5 - Bracket

6 - Emergency battery, telematics - A16-

- In data bus diagnostic interface - J533-
- Removing and installing ⇒ Maintenance ; Booklet 820 ; Maintenance; Connected gateway: renewing emergency battery

7 - Data bus diagnostic interface - J533-

- Under rear seat bench
- Pin assignment ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- Removing and installing ⇒ Electrical system; Rep. gr. 97 ; Control units; Removing and installing data bus diagnostic interface - J533-

8 - Loudspeaker for emergency call module - R335-

- In dash panel cover (driver's side)
- Removing and installing ⇒ page 179

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9 - Bolt

- ❑ 2x
- ❑ 2 Nm

10 - Emergency call module aerial - R263-

- ❑ Beneath dash panel (front centre)
- ❑ Coupé/Sportback - 4GF/4GS only
- ❑ Removing and installing on Coupé ⇒ page 95
- ❑ Removing and installing on Sportback ⇒ page 95
- ❑ Removing and installing on Cabriolet ⇒ page 97

- Emergency call module aerial 2 - R322-

- ❑ Beneath dash panel (front centre)
- ❑ Coupé/Sportback - 4GR/4GY only
- ❑ Removing and installing ⇒ page 98

11.2.2 Overview of fitting locations - mobile online services, all except Russia, IW3/ IW5, from model year 2019 onwards with connect package plus (IV1 to IV8)

1 - Control unit 1 for information electronics - J794-

- ❑ In glove box
- ❑ ⇒ Current flow diagrams, Electrical fault finding and Fitting locations
- ❑ Removing and installing ⇒ page 10

2 - Front interior light - W1-

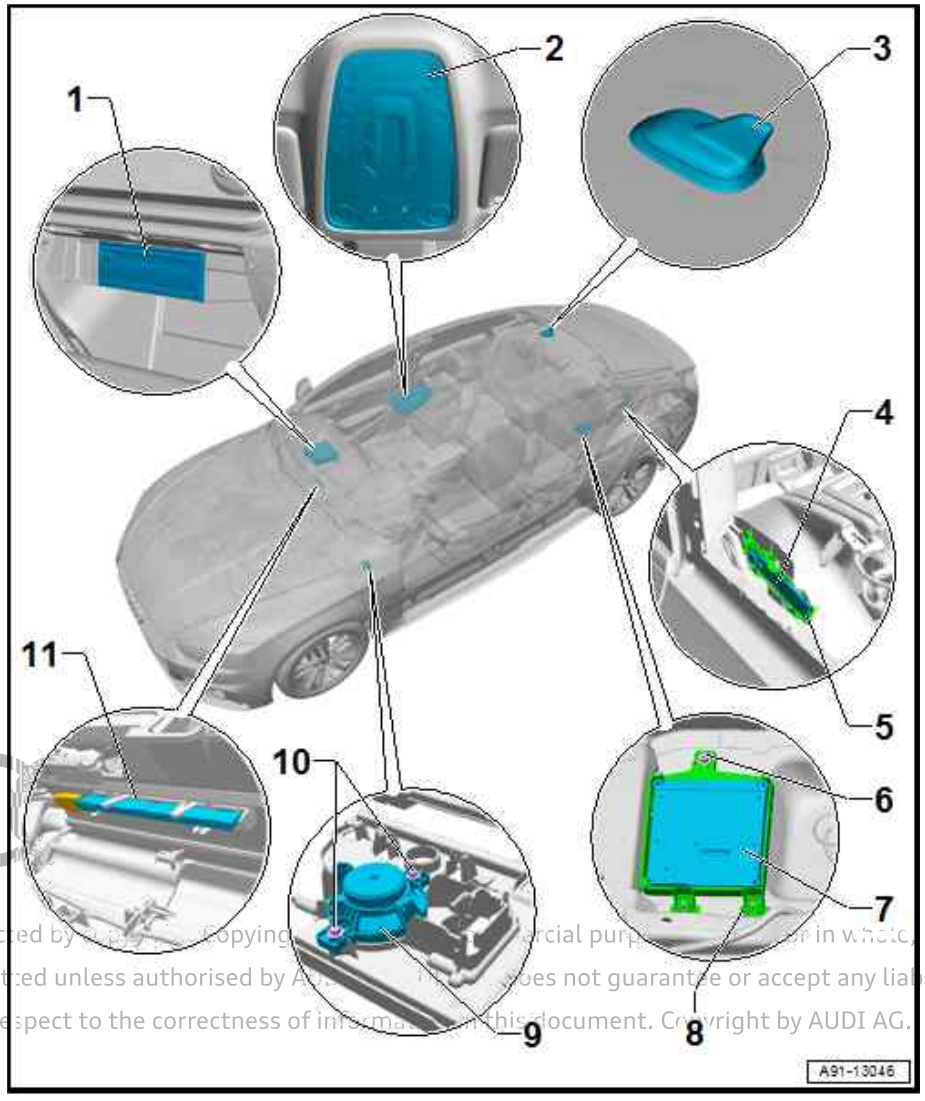
- ❑ With front left microphone - R140-
- ❑ Removing and installing ⇒ Electrical system; Rep. gr. 96 ; Controls; Removing and installing interior light/reading light (front)

3 - GPS aerial - R50-

- ❑ In roof aerial - R216- on Coupé/Sportback
- ❑ On convertible roof compartment lid (left-side) on Cabriolet
- ❑ Removing and installing ⇒ page 89

- Emergency call module aerial 2 - R322-

- ❑ In roof aerial - R216- on Coupé/Sportback
- ❑ On convertible roof compartment lid (centre) on Cabriolet
- ❑ Removing and installing on Coupé/Sportback ⇒ page 99



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- ❑ Removing and installing on Cabriolet ⇒ page 99

4 - Emergency call module aerial - R263-

- ❑ Removing and installing on Coupé (under rear shelf) ⇒ page 95
- ❑ Removing and installing on Sportback (at belt guide, rear left) ⇒ page 96
- ❑ Removing and installing on Cabriolet (on bracket for data bus diagnostic interface - J533-) ⇒ page 97

5 - Bracket

6 - Nut

- ❑ 3 Nm

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7 - Emergency call module control unit and communication unit - J949-

- ❑ In front left of luggage compartment on Coupé and Sportback
- ❑ Removing and installing ⇒ page 177
- ❑ Beneath rear seat bench (right-side) on Cabriolet
- ❑ Removing and installing ⇒ page 178
- ❑ Checking emergency battery, telematics - A16- ⇒ Maintenance ; Booklet 820 ; Maintenance; Connectivity box: checking emergency battery
- ❑ Removing and installing emergency battery, telematics - A16- ⇒ Maintenance ; Booklet 820 ; Maintenance; Connectivity box: renewing emergency battery

8 - Stud

9 - Loudspeaker for emergency call module - R335-

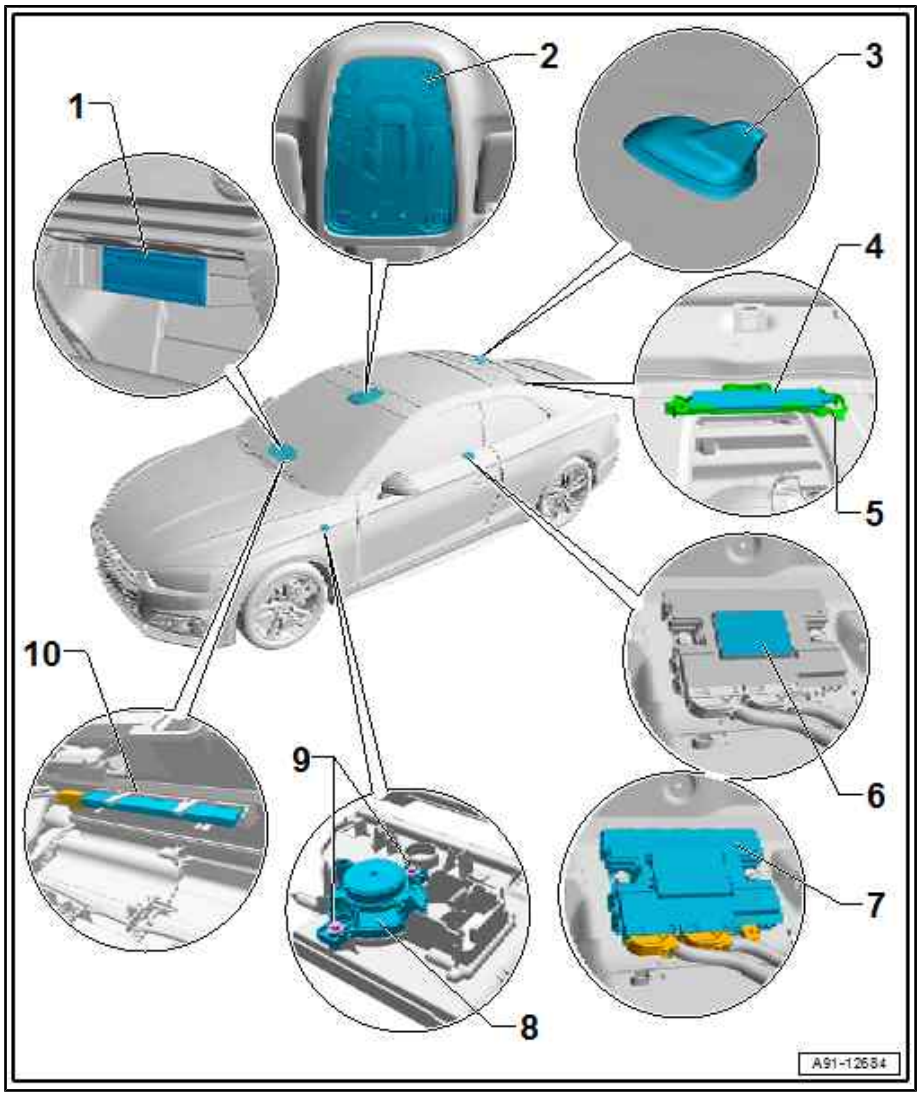
- ❑ In dash panel cover (driver's side)
- ❑ Removing and installing ⇒ page 179

10 - Bolt

- ❑ 2x
- ❑ 2 Nm

11 - Not fitted

11.2.3 Overview of fitting locations - mobile online services, Russia only, IW1



1 - Control unit 1 for information electronics - J794-

- ❑ In glove box
- ❑ Removing and installing ⇒ page 10

2 - Front interior light - W1-

- ❑ With emergency assistance call button - E276- / front left microphone - R140-
- ❑ Removing and installing ⇒ Electrical system; Rep. gr. 96 ; Controls; Removing and installing interior light/reading light (front)

3 - Roof aerial - R216-

- ❑ Emergency call module aerial - R263-
- ❑ GPS aerial - R50-
- ❑ Removing and installing ⇒ page 100

4 - Not fitted

5 - Not fitted

6 - Emergency battery, telematics - A16-

- ❑ In data bus diagnostic interface - J533-
- ❑ Removing and installing ⇒ Maintenance ; Booklet 820 ; Maintenance; Connected gateway: renewing emergency battery

7 - Data bus diagnostic interface - J533-

- ❑ Under rear seat bench
- ❑ Removing and installing ⇒ Electrical system; Rep. gr. 97 ; Control units; Removing and installing data bus diagnostic interface - J533-

8 - Loudspeaker for emergency call module - R335-

- ❑ In dash panel cover (driver's side)
- ❑ Removing and installing ⇒ page 179

9 - Bolt

- ❑ 2x
- ❑ 2 Nm

10 - Not fitted

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11.3 Removing and installing emergency call module control unit and communication unit - J949-

⇒ "11.3.1 Removing and installing emergency call module control unit and communication unit J949 - Coupé/Sportback", page 177

⇒ "11.3.2 Removing and installing emergency call module control unit and communication unit J949 - Cabriolet", page 178

11.3.1 Removing and installing emergency call module control unit and communication unit - J949- - Coupé/Sportback

Special tools and workshop equipment required

- Torque screwdriver - V.A.G 1624-

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Emergency call module control unit and communication unit - J949- is located in luggage compartment (front left).

Note

If control unit is to be renewed, select the "Replace control unit" function for appropriate control unit in ⇒ Vehicle diagnostic tester.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove luggage compartment floor covering.

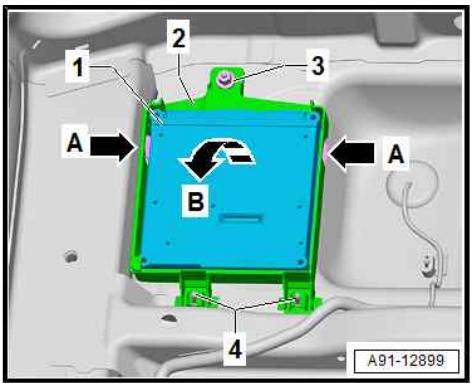
Emergency call module control unit and communication unit - J949- -1- is engaged in bracket -2-.

– Press tabs -arrows A- and swivel out emergency call module control unit and communication unit - J949- -1- -arrow B-.

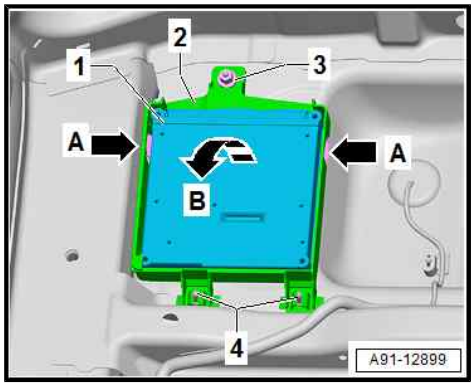
– Release and unplug electrical connectors at emergency call module control unit and communication unit - J949- -1-.

Removing bracket

– Remove nut -3- and detach bracket -2- from studs -3 and 4-.



– Audi A5 Sportback g-tron: Remove nuts -3 and 4- and detach bracket -2- from studs -3 and 4-.



Installing

Installation is carried out in reverse order; note the following:

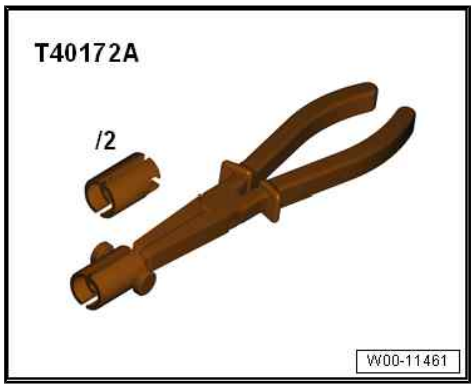
Tightening torques

Components	Tightening torque
Bracket to luggage compartment floor	3 Nm

11.3.2 Removing and installing emergency call module control unit and communication unit - J949- - Cabriolet

Special tools and workshop equipment required

- Pliers - T40172 A-



The emergency call module control unit and communication unit - J949- is located under the rear seat bench (right-side).

Note

If control unit is to be renewed, select the "Replace control unit" function for appropriate control unit in ⇒ Vehicle diagnostic tester.

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.

– Remove rear seat backrest ⇒ General body repairs, interior; Rep. gr. 72 ; Rear seats; Removing and installing rear seat backrest .

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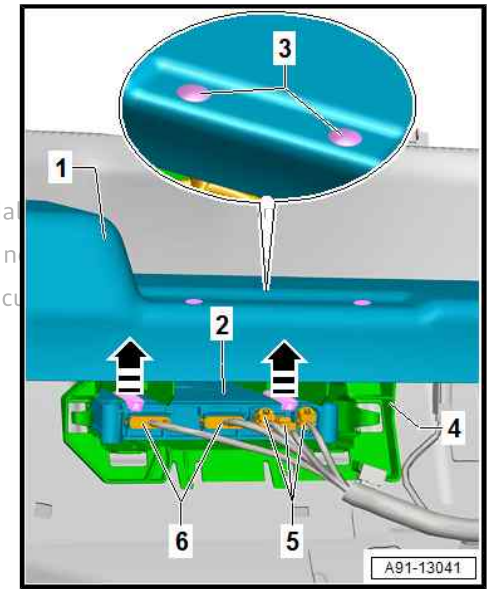
– Remove fasteners -3- using pliers - T40172 A- .
– Lift luggage compartment floor (front) -1- in area of emergency call module control unit and communication unit - J949- .
– Release and unplug electrical connectors -6- and aerial wires -5-.
– Disengage catches -arrows-.
– Pull emergency call module control unit and communication unit - J949- -2- out of mounting -4-.



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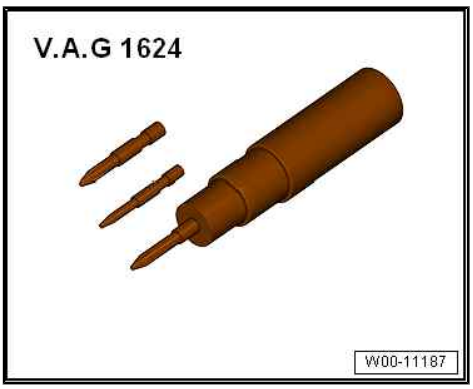
Installing

Installation is carried out in reverse sequence.

11.4 Removing and installing loudspeaker for emergency call module - R335-

Special tools and workshop equipment required

♦ Torque screwdriver - V.A.G 1624-

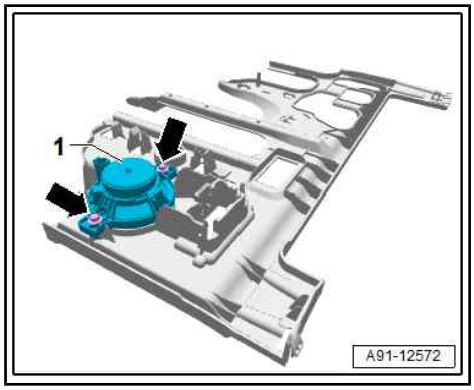


Loudspeaker for emergency call module - R335- is located in dash panel cover (driver side).

Removing

– Switch off ignition and all electrical equipment, and remove ignition key.
– Remove dash panel cover (driver side) ⇒ General body repairs, interior; Rep. gr. 68 ; Storage compartments/covers/trim panels; Exploded view - dash panel cover (driver side) .
– Release and unplug connectors on loudspeaker for emergency call module - R335- .

– Remove bolts -arrows- on loudspeaker for emergency call module - R335- -1-.
– Detach loudspeaker for emergency call module - R335- -1- from dash panel cover.



Installing

Installation is carried out in reverse order; note the following:

Tightening torques

◆ ⇒ “11.2 Overview of fitting locations - mobile online services”, page 172

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