

Installation instructions

Audi Universal Traffic Recorder

- Audi A4 (8W) 2016 ▶**
- Audi A5 (8W) 2017 ▶**
- Audi A6/A7 (4G) 2011 ▶**
- Audi A6/A7 (4G) 2015 ▶**
- Audi A6 (4K0) Limousine 2018 ▶**
- Audi A6 (4KA) Avant 2018 ▶**
- Audi A7 (4KF) Sportback 2018 ▶**

4G0.063.511.B
For scope of delivery
4G0.063.511.A
4G0.063.511.F
4G0.063.511.G
4G0.063.511.H
Audi Genuine Accessories

Edition 01

Installation instructions

Audi Universal Traffic Recorder Audi A4 (8W) 2016 ►

**For scope of delivery
4G0.063.511.A and 4G0.063.511.F (UK)
Audi Genuine Accessories**

Edition 01



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1 General notes

Please read these instructions carefully and note the Warning, Caution and Note descriptions before installing the Audi Universal Traffic Recorder.



WARNING

Text with this symbol contains information concerning your safety and indicates potential accident and injury risks.



Caution

Text with this symbol indicates the risk of damage to your vehicle.



Note

Text with this symbol contains additional information.



Note

- ◆ *The Audi Universal Traffic Recorder must be installed by a qualified workshop. Special tools and supplementary vehicle-specific literature will be needed to perform the installation. Improper installation can cause damage to the vehicle or to the Audi Universal Traffic Recorder.*
- ◆ *The work to be performed on the vehicle, as detailed in these fitting instructions, may change as a result of measures to upgrade models. Consequently, modifications to connectors, wire colours or even the fitting location, for instance, should not be ruled out. For this reason, make sure that you always refer to the most current wiring diagram and/or the current repair manuals for the vehicle.*
- ◆ *We reserve the right to make technical changes.*

Audi AG shall not accept responsibility in the event of failure to comply with these installation instructions.



2 Safety notes

2.1 General safety notes

 **WARNING**

Please read these installation instructions carefully before starting installation. Non-compliance with these installation instructions and safety notes will compromise your safety and that of third parties.

 **WARNING**

All mechanical and electrical connections must be checked to make sure that they are positioned and installed correctly.

 **WARNING**

Repairs or the replacement of parts must only be performed by a qualified workshop. It is recommended that genuine spare parts available from your Audi partner are used.

 **WARNING**

The Audi Universal Traffic Recorder has no internal voltage source and is dependent on the on-board supply.



3 Repair instructions

3.1 Contact corrosion

Contact corrosion can occur when unsuitable connecting elements (screws, nuts, washers) are used.

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

Additionally, rubber or plastic parts and adhesives are made of materials that are not electrically conductive.

If you are in any doubt about the suitability of parts, use new parts as a general rule ⇒ Electronic parts catalogue.

Please note:

- ◆ We recommend using only genuine spare parts; these parts have been tested and are compatible with aluminium.
- ◆ We recommend using Audi Genuine Accessories.
- ◆ Damage caused by contact corrosion is not covered by the warranty.

3.2 Routing and securing lines



WARNING

Observe the safety instructions for pyrotechnic components (see repair group 69).

During installation, ensure that the airbag does not become trapped. Route the retrofit wiring harness behind the airbag and secure accordingly. The airbag must be able to function under all circumstances.

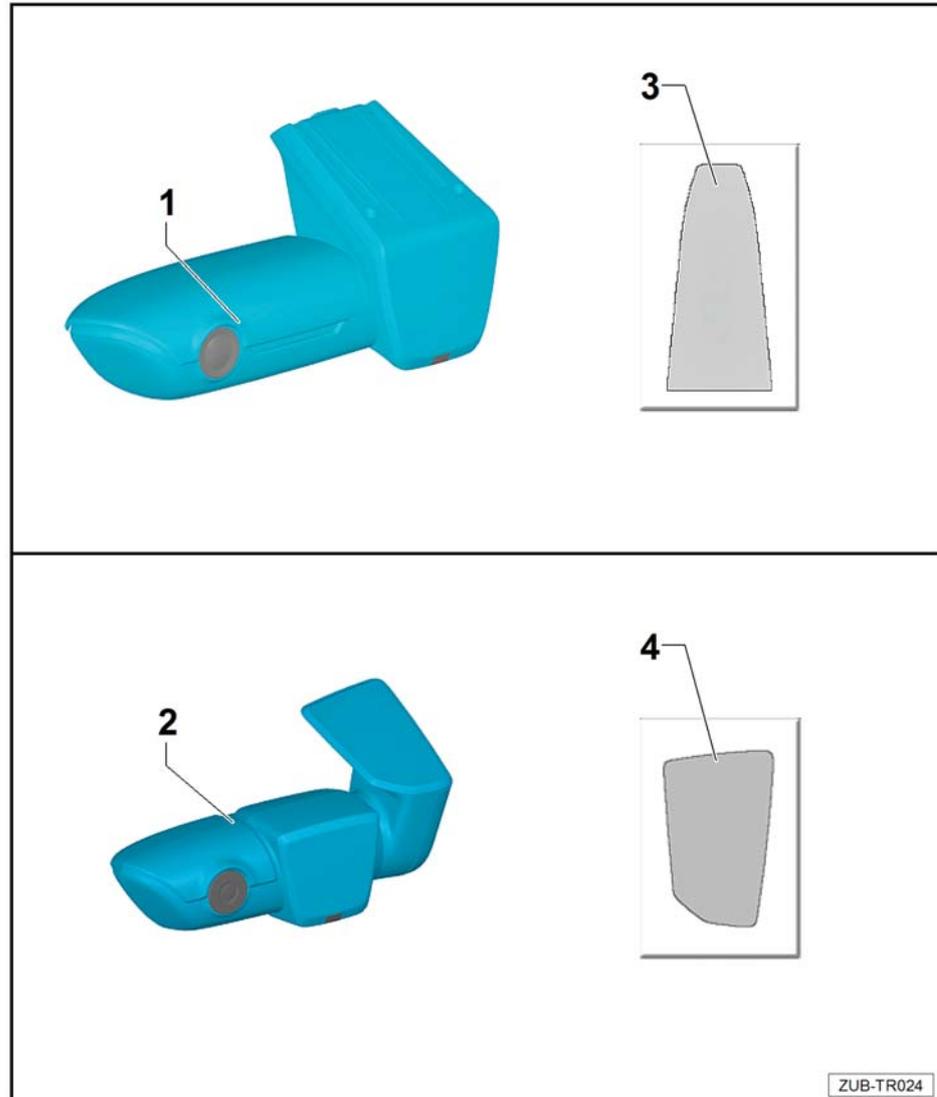
- ◆ To avoid damage to wires in the interior due to the limited space available, make sure that there is adequate clearance in relation to all moving components.



4 Overview of components, scope of delivery and overview of fitting location

4.1 Overview of components

- 1 - Front camera
- 2 - Rear camera
- 3 - Anti-glare film for front camera
- 4 - Anti-glare film for rear camera



4.2 Scope of delivery

4G0.063.511.A and 4G0.063.511.F (UK)

Quantity	Component
1	Front camera
1	Rear camera
1	Camera wiring harness with coupling point
1	Anti-glare film for front camera
1	Anti-glare film for rear camera
1	Operating instructions

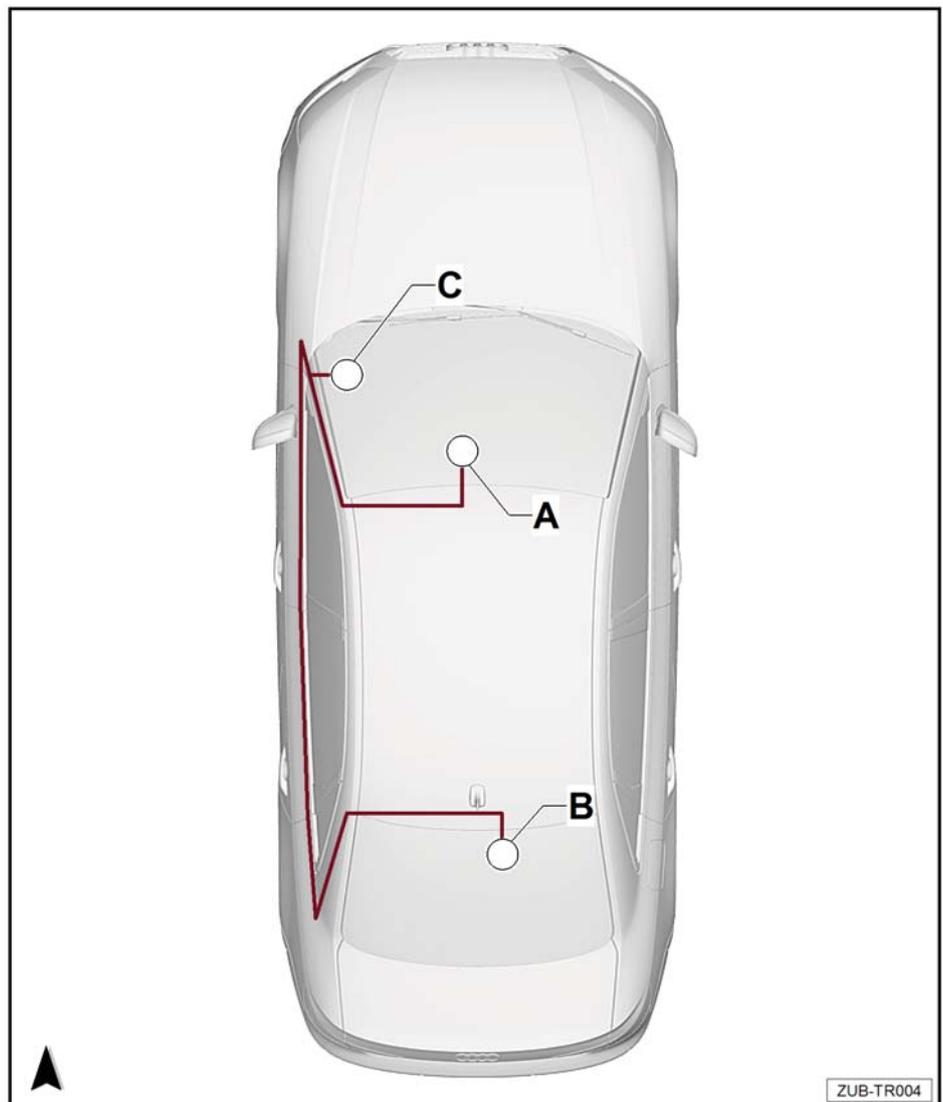


Not included in the scope of delivery, must be ordered separately: wiring harness 4G0.063.511.B

Quantity	Component
1	UTR wiring harness for the on-board supply
10	Cable tie N.020.904.5
3	Foam grommet 811.971.790
1	Connector housing 1J0.972.751
2	Connector housing 893.971.632

4.3 Overview of fitting location

- A - Audi Universal Traffic Recorder with front camera**
- B - Rear camera**
- C - Connection to on-board supply**



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5 Sequence of operations

5.1 Preparations

ELSA reference

- Disconnect the battery ⇒ Electrical system; Rep. gr. 27; Battery; Disconnecting and connecting the battery
- Remove the roof module ⇒ Interior equipment; Rep. gr. 68; Storage compartments, covers; Removing and installing the roof module
- Remove the driver side sun visor ⇒ Interior equipment; Rep. gr. 68; Equipment; Removing and installing the sun visor
- Remove the A-pillar trim on the driver side ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the A-pillar trim
- Remove the footwell trim on the driver side ⇒ General body repairs, interior; Rep. gr. 68; Interior trims; Removing and installing the footwell trim
- Remove the foot rest ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the foot rest
- Remove fuse carrier -ST2- ⇒ Electrical system; Rep. gr. 97; Relay carrier, fuse carrier, electrical boxes; Removing and installing the fuse carrier
- Remove fuse carrier -ST4- ⇒ Electrical system; Rep. gr. 97; Relay carrier, fuse carrier, electrical boxes; Removing and installing the fuse carrier
- Remove the sill panel trim on the front driver side ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the sill panel trim
- Remove the B-pillar trim on the driver side ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the B-pillar trim on the driver side
- Remove the sill panel trim on the rear driver side ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the sill panel trim
- Remove the C-pillar trim on the driver side ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the C-pillar
- Remove the left-hand luggage compartment side trim ⇒ General body repairs, interior; Rep. gr. 70; Luggage compartment trims; Removing and installing the luggage compartment side trim

Also applies to the A4 Avant

- Remove the rear lid trim ⇒ General body repairs, interior; Rep. gr. 70; Luggage compartment trim; Removing and installing the rear lid trim



5.2 Connecting the UTR wiring harness – left-hand drive vehicle

WARNING

Observe the safety instructions for pyrotechnic components (see repair group 69).

Do not connect the head and neck airbag when installing the A-pillar trim. Route the UTR wiring harness behind the airbag and secure accordingly. The airbag must be able to function under all circumstances.

Note

- ◆ *Make sure that all routed wires are long enough to reach the installation position.*
- ◆ *Make sure that the wire for the mounting base of the front camera is long enough for it to be attached at the installation position.*
- ◆ *Remove any trim parts to determine the correct wire length.*

Routing the camera wiring harness

- Loosen the headliner slightly across the entire area of the windscreen so that the wiring harnesses can be fed through more easily.
- Carefully route the camera wiring harness through the roof module opening and further on between the windscreen and the headliner towards the front in the direction of the front camera installation position and leave it hanging there.
- Secure the camera wiring harness coupling point with a foam grommet to prevent noises from developing.
- Connect the UTR wiring harness for the on-board supply to the camera wiring harness coupling point.

Routing the UTR wiring harness for the on-board supply

- Route the entire UTR wiring harness under the headliner to the A-pillar on the driver side and further down to fuse carrier -ST4- and fuse carrier -ST2- to the bottom left in the footwell and fix it in place using cable ties.
- If necessary, fasten the individual wires in the area of the headliner together using fabric tape to prevent noises from developing.
- Unclip fuse carrier -ST2- from the fuse holder on the driver side.
- Unclip fuse carrier -ST4- from the fuse holder on the driver side.

Note

- ◆ *Make sure that the wire is long enough to connect the rear camera.*
- ◆ *Remove any trim parts to determine the correct wire length.*



- Route the rear camera wire along the standard wiring harness into the luggage compartment, then over the C-pillar to the position of the rear camera.

Connecting terminal 30 (red) of the UTR wiring harness for the on-board supply to fuse carrier -ST2-

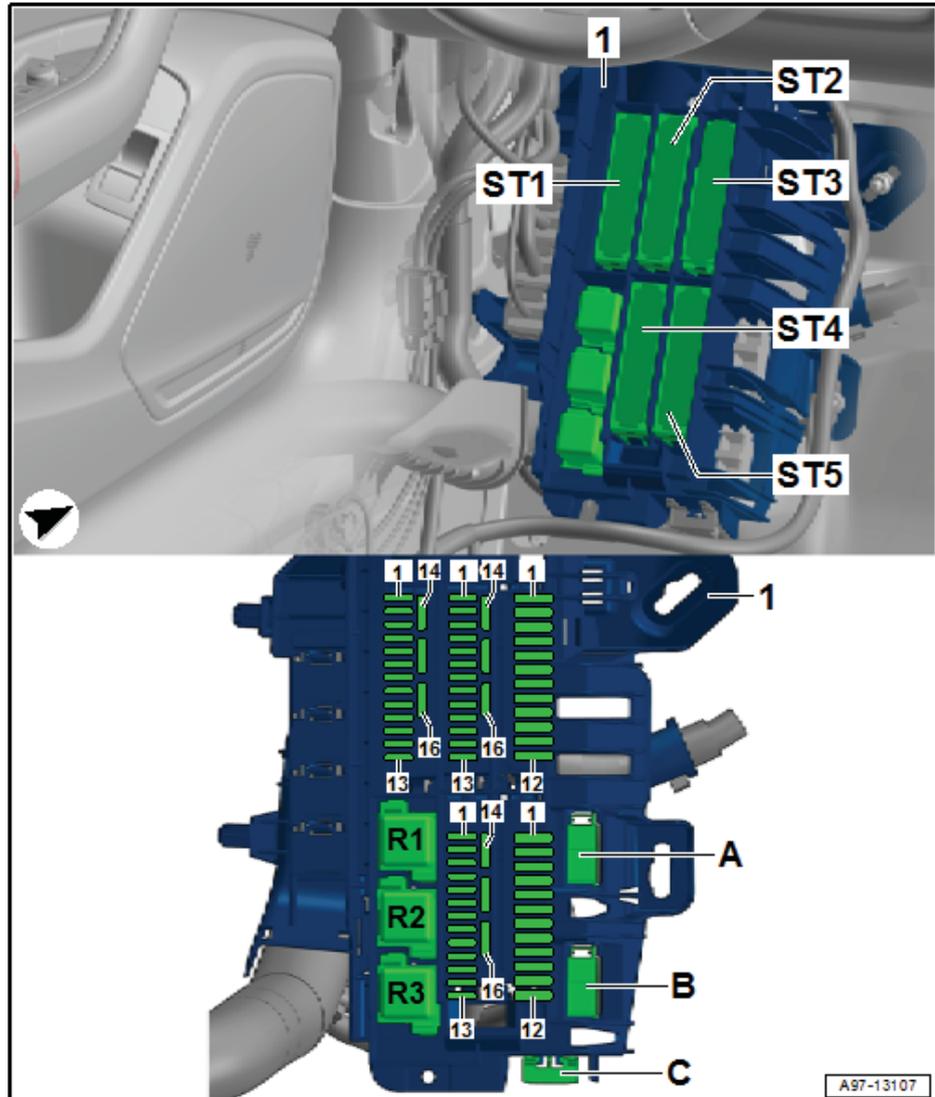
⚠ WARNING

The UTR wiring harness can be used for several vehicles. To connect the wiring harness in the Audi A4, use the red wire with the small pin and the plug-in connector with the small contact. Insert the remaining red wire with the large pin into the supplied connector housing (1J0.972.751). Now connect the connector housing with the remaining plug-in connector (with the large contact). Secure the loop and connector formed as a result of this process to prevent noises from developing.

- Unclip fuse carrier -ST2- from the fuse holder on the driver side.
- Unpin the standard wiring harness on fuse carrier -ST2- from the following chamber:

◆ Chamber 12

- Pin the unpinned contact -12- into the connector housing supplied (893.971.632) and insert into the corresponding connector on the UTR wiring harness.
- Pin the free wire (red) on the UTR wiring harness into the free chamber -12-.





5.3 Connecting the UTR wiring harness – right-hand drive vehicle



WARNING

Observe the safety instructions for pyrotechnic components (see repair group 69).

Do not connect the head and neck airbag when installing the A-pillar trim. Route the UTR wiring harness behind the airbag and secure accordingly. The airbag must be able to function under all circumstances.



Note

- ◆ *Make sure that all routed wires are long enough to reach the installation position.*
- ◆ *Make sure that the wire for the mounting base of the front camera is long enough for it to be attached at the installation position.*
- ◆ *Hold any trim parts in place to determine the correct wire length.*

Routing the camera wiring harness

- Loosen the headliner slightly across the entire area of the windscreen so that the camera wiring harness can be fed through more easily.
- Carefully route the camera wiring harness through the roof module opening and further on between the windscreen and the headliner towards the front in the direction of the front camera installation position and leave it hanging there.
- Secure the camera wiring harness coupling point with a foam grommet to prevent noises from developing.
- Connect the UTR wiring harness for the on-board supply to the camera wiring harness coupling point.

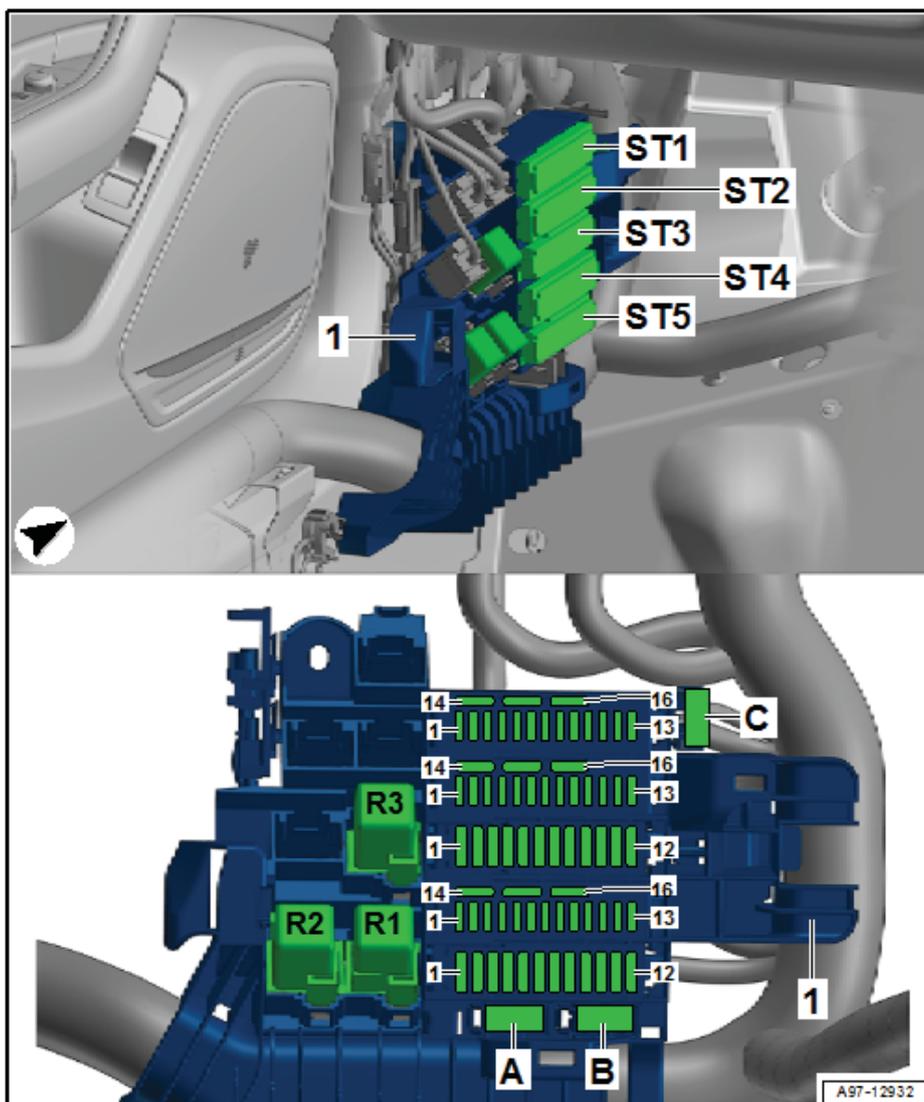
Routing the UTR wiring harness for the on-board supply

- Route the entire UTR wiring harness under the headliner to the A-pillar on the driver side and further down to fuse carrier -ST4- and fuse carrier -ST2- to the bottom left in the footwell and fix it in place using cable ties.
- If necessary, fasten the individual wires in the area of the headliner together using fabric tape to prevent noises from developing.
- Unclip fuse carrier -ST2- from the fuse holder on the driver side.
- Unclip fuse carrier -ST4- from the fuse holder on the driver side.

Connecting terminal 30 (red) of the UTR wiring harness for the on-board supply to fuse carrier -ST2-

⚠ WARNING

The UTR wiring harness can be used for several vehicles. To connect the wiring harness in the Audi A4, use the red wire with the small pin and the plug-in connector with the small contact. Insert the remaining red wire with the large pin into the supplied connector housing (1J0.972.751). Now connect the connector housing with the remaining plug-in connector (with the large contact). Secure the loop and connector formed as a result of this process to prevent noises from developing.



- Unpin the standard wiring harness on fuse carrier -ST2- from the following chamber:
- ◆ Chamber 12
- Pin the unpinned contact -12- into the connector housing supplied (893.971.632) and insert into the corresponding connector on the UTR wiring harness.
- Pin the free wire (red) on the UTR wiring harness into the free chamber -12-.

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Connecting terminal 15 (green) of the UTR wiring harness for the on-board supply to fuse carrier -ST4-

WARNING

For vehicles in which chamber 8 is not occupied by a pin, the free wire (green) must be pinned in directly. (5-A mini fuse) Fix the remaining plug-in connector on the UTR wiring harness and secure to prevent noises from developing.

- Unpin the standard wiring harness on fuse carrier -ST4- from the following chamber:

◆ Chamber 8

- Pin the unpinned contact -8- into the connector housing supplied (893.971.632) and insert into the corresponding connector on the UTR wiring harness.
- Pin the free wire (green) on the UTR wiring harness into the free chamber -8-.
- Attach the earth wire (black) on the UTR wiring harness to the earth point in the footwell on the left on the driver side.

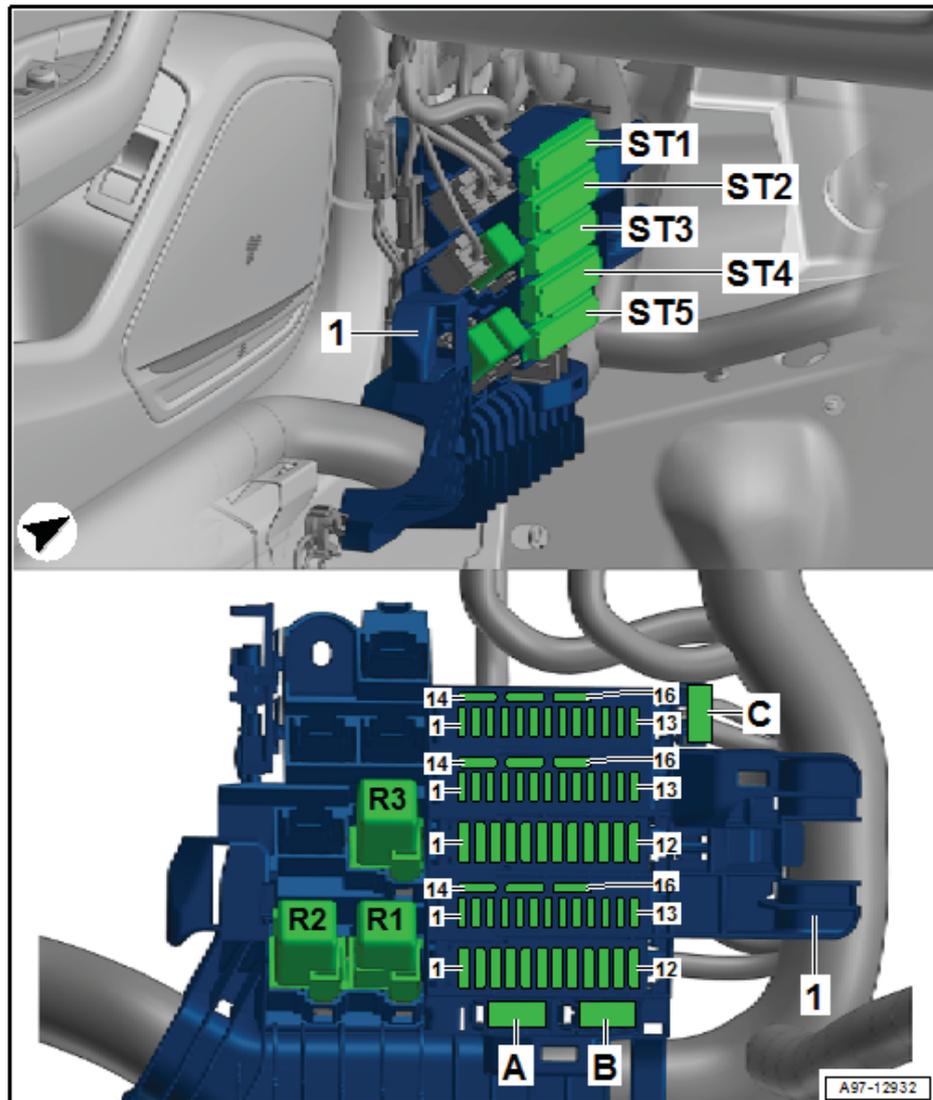
Note

The earth point should be selected based on the cable length.

- Once all connection work has been completed, fix the coupling point in the roof module opening so that no noise is generated and nothing is disturbed when installing the roof module.

5.4 Assembling the vehicle

- Reassemble the vehicle by following these steps in reverse order.



5.5 Installing the front camera

WARNING

The appendix of the fitting instructions contains a template for positioning the anti-glare film supplied for the front camera.

Print out the template.

The template features a positioning mark. Using a ruler, measure the positioning mark. This must be 10 cm.

If the dimension is too small or large, the printer options must be changed from "Fit" to "Actual size".

Note

- ◆ Install the front camera only in the specified area of the windscreen.
- ◆ Before fitting the front camera, thoroughly clean the windscreen using workshop tools.
- ◆ The windscreen must be free from dust and grease.

Assembly sequence

Image 1 - From outside the vehicle, determine the centre of the windscreen and mark this position.

Image 2 - Use the template that corresponds with the PR number for the mirror base equipment variant and cut the template along the dotted line -arrow A- and -arrow C-. Also cut out the position of the camera base -arrow B-.

Note

Note the PR number of the mirror base equipment variant ⇒ table shown below.

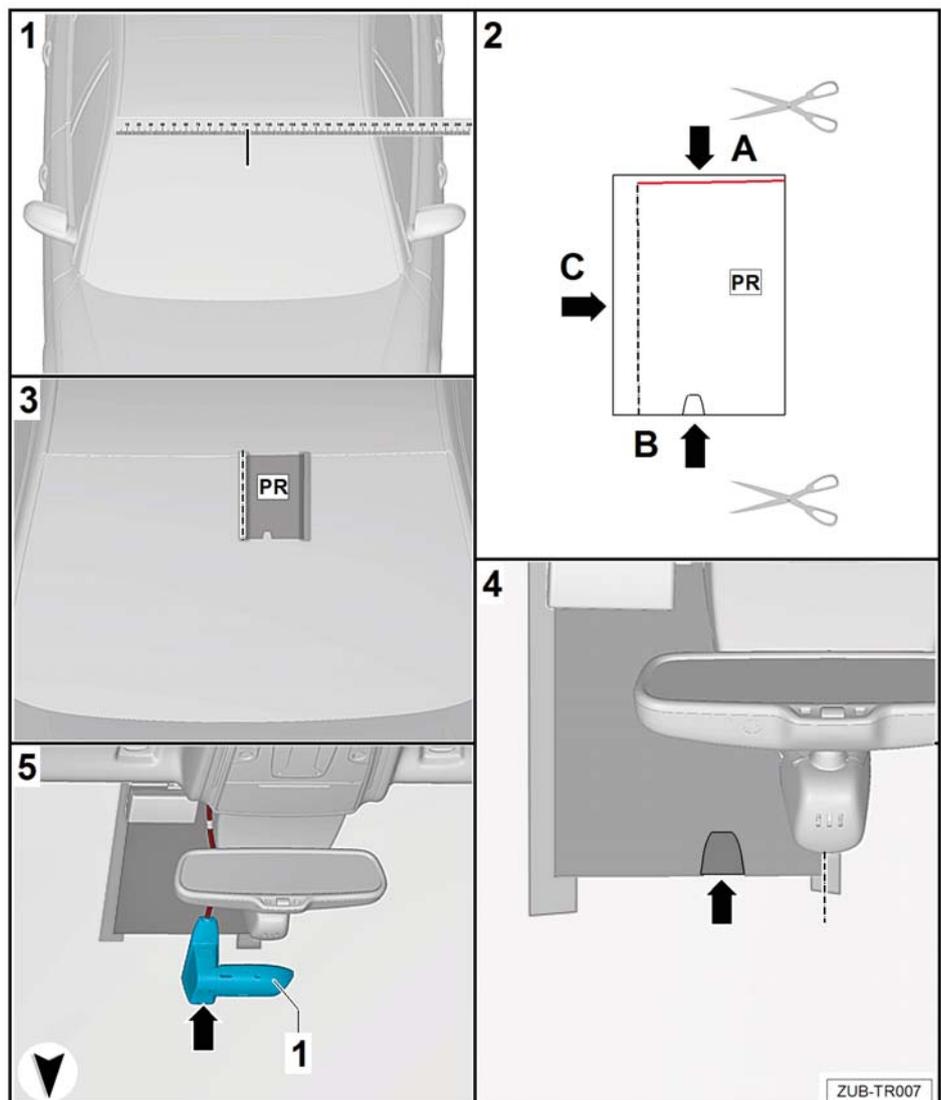




Image 3 - Position the template in the centre and on the upper edge of the windscreen and fix it in place using adhesive tape. The writing on the template must be the right way up facing outwards. Remove the protective paper from the anti-glare film.

Image 4 - Position the anti-glare film -arrow- on the inside of the windscreen using the template and carefully press it on.

 Note

Starting in the middle, carefully press trapped air outwards using a squeegee or a cloth.

Image 5 - Clip the front camera -1- into the mounting base, position this on the inside of the windscreen on the anti-glare film -arrow- and carefully press it on.

 Note

Assistance from a second technician is required to position the camera with precision.

Equipment variants in accordance with PR number

8G0	No main beam assist
8G1	Main beam assist
8G4	Matrix Beam
QK0	No camera for assistance systems
QK1	Camera for assistance systems

5.6 Installing the rear camera

 Note

- ◆ *Install the rear camera only in the specified area of the rear window.*
- ◆ *Before fitting the rear camera, thoroughly clean this area of the rear window.*

Assembly sequence

Image 1 - From inside the vehicle, determine the centre of the rear window and mark this position.

Image 2 - From the centre, measure 50 mm to the left and mark this point.

Image 3 - Remove the protective paper from the anti-glare film. On the inside of the rear window, position the anti-glare film so that the left edge is on the marking -arrow- and the top edge is on the rear lid trim/third brake light trim. Carefully press on the anti-glare film.

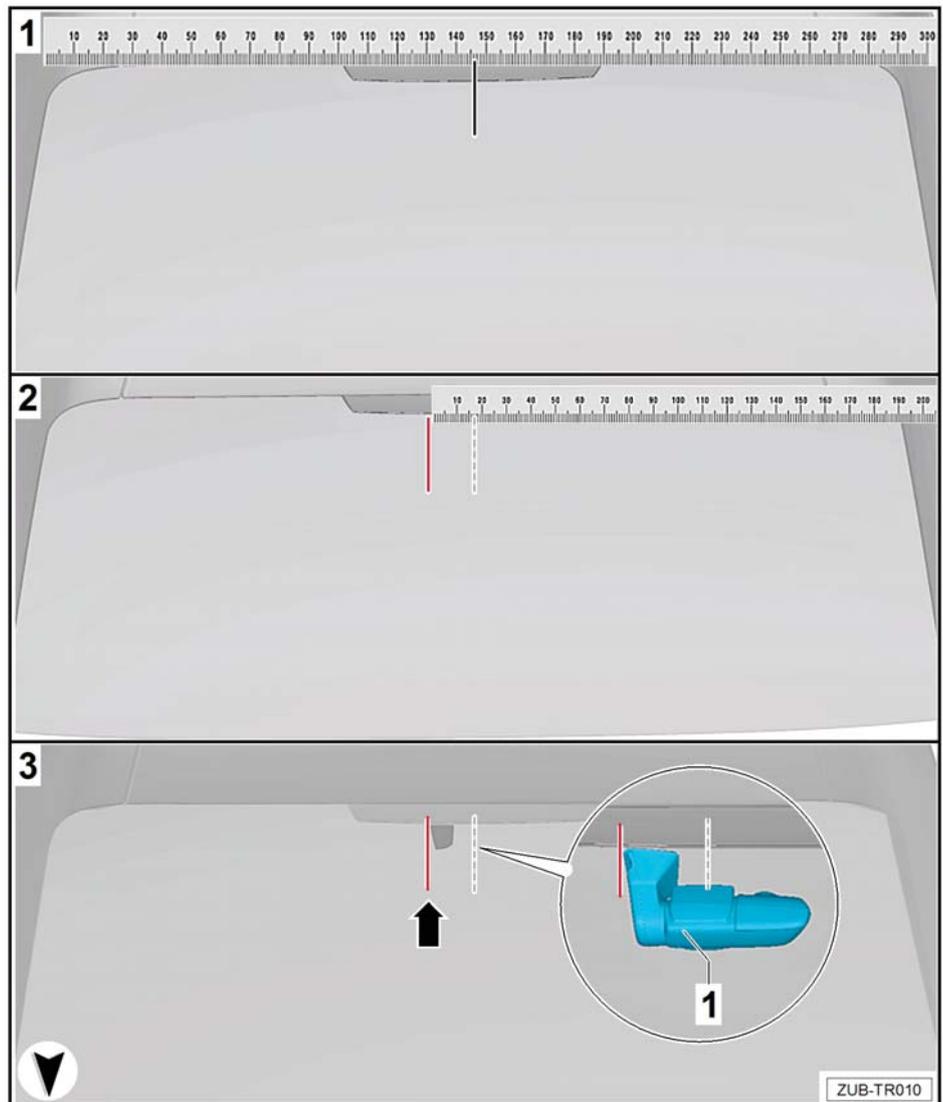
Note

- ◆ Note the installation position of the anti-glare film.
- ◆ Starting in the middle, carefully press trapped air outwards using a squeegee or a cloth.
- ◆ Have a second technician outside the vehicle help determine the exact position of the camera.

- Align the rear camera -1- on the anti-glare film and stick it in place -magnifying glass in image 3-.
- Connect the supply wire for the rear camera, route the cable so that it is out of view and secure it using cable ties to prevent noises from developing.

Note

Route any excess wire back into the trim.



5.7 Concluding operations

- Connect the battery ⇒ Electrical system; Rep. gr. 27; Battery; Disconnecting and connecting the battery

If the battery is being reconnected, the following steps must be taken:

- ◆ Clear the fault memory
- ◆ Activate the one-touch opening and closing of the electric windows ⇒ operating instructions.



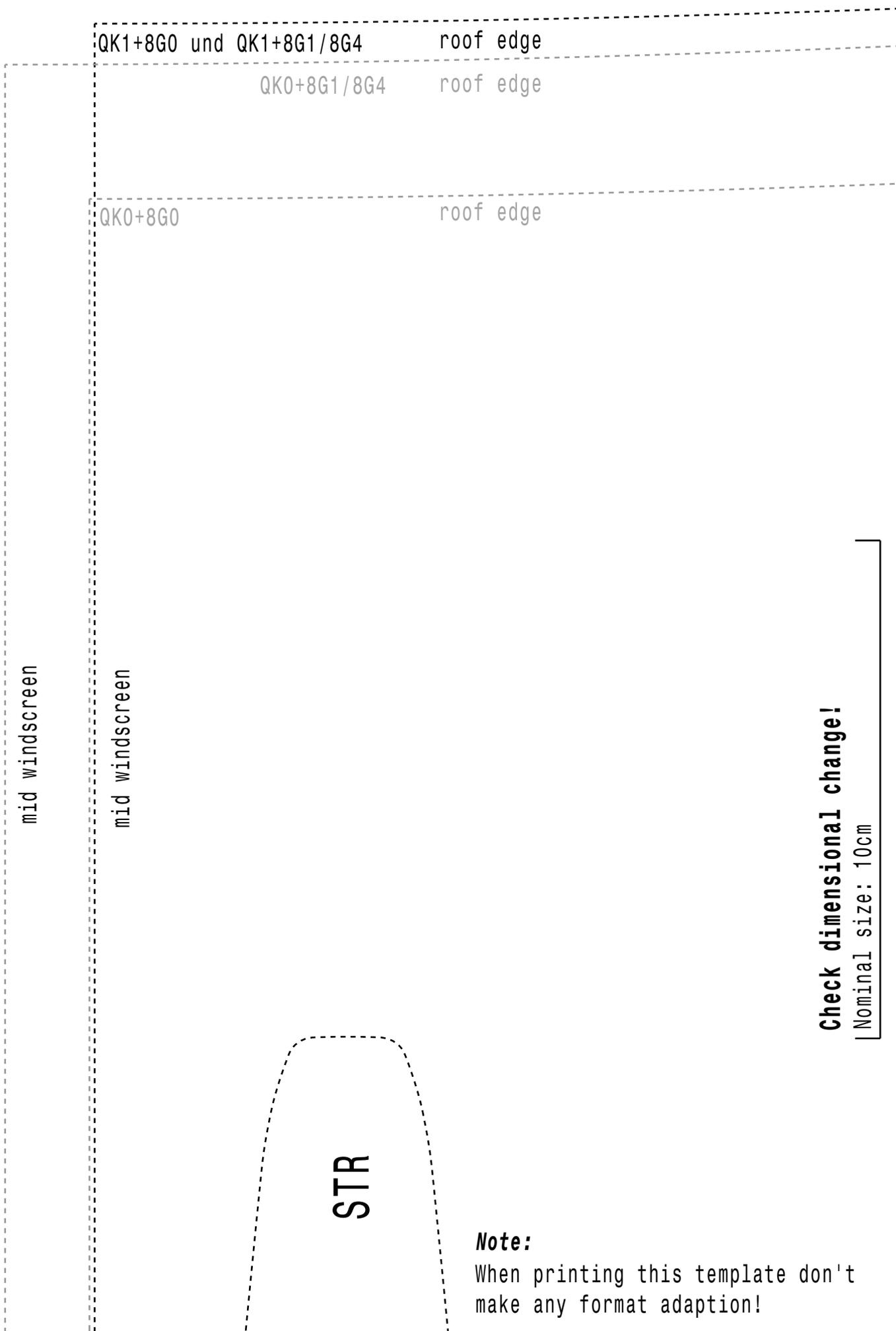
- ◆ Synchronise secondary and additional keys to ensure the remote control functions correctly. To do this, insert the key into the ignition lock, switch the ignition on and off again and then remove the key.

 **Note**

After reconnecting the power supply, the ESP warning light can only extinguish after a few metres have been driven.

- Perform a function test for the camera ⇒ UTR operating instructions

Audi A4 - AU491/492



Note:

When printing this template don't make any format adaption!

Check dimensional change!

Nominal size: 10cm

Installation instructions

Audi Universal Traffic Recorder Audi A5 (8W) 2017 ►

**4G0.063.511.B
for scope of delivery**

4G0.063.511.A

4G0.063.511.F

4G0.063.511.G

4G0.063.511.H

Audi Genuine Accessories

Edition 01



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5.8	Concluding operations	17



1 General notes

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Caution

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Note

- ◆ *The Audi Universal Traffic Recorder must be installed by a qualified workshop. Special tools and supplementary vehicle-specific literature will be needed to perform the installation. Improper installation can cause damage to the vehicle or to the Audi Universal Traffic Recorder.*
- ◆ *The work to be performed on the vehicle, as detailed in these fitting instructions, may change as a result of measures to upgrade models. Consequently, modifications to connectors, wire colours or even the fitting location, for instance, should not be ruled out. For this reason, make sure that you always refer to the most current wiring diagram and/or the current repair manuals for the vehicle.*
- ◆ *We reserve the right to make technical changes.*

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2 Safety notes

2.1 General safety notes

 **WARNING**

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 **WARNING**

Repairs or the replacement of parts must only be performed by a qualified workshop. It is recommended that genuine spare parts available from your Audi partner are used.

 **WARNING**

The Audi Universal Traffic Recorder has no internal voltage source and is dependent on the on-board supply.



3 Repair instructions

3.1 Contact corrosion

Contact corrosion can occur when unsuitable connecting elements (screws, nuts, washers) are used.

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

Additionally, rubber or plastic parts and adhesives are made of materials that are not electrically conductive.

If you are in any doubt about the suitability of parts, use new parts as a general rule ⇒ Electronic parts catalogue.

Please note:

- ◆ We recommend using only genuine spare parts; these parts have been tested and are compatible with aluminium.
- ◆ We recommend using Audi Genuine Accessories.
- ◆ Damage caused by contact corrosion is not covered by the warranty.

3.2 Routing and securing lines



WARNING

Observe the safety instructions for pyrotechnic components (see repair group 69).

During installation, ensure that the airbag does not become trapped. Route the retrofit wiring harness behind the airbag and secure accordingly. The airbag must be able to function under all circumstances.

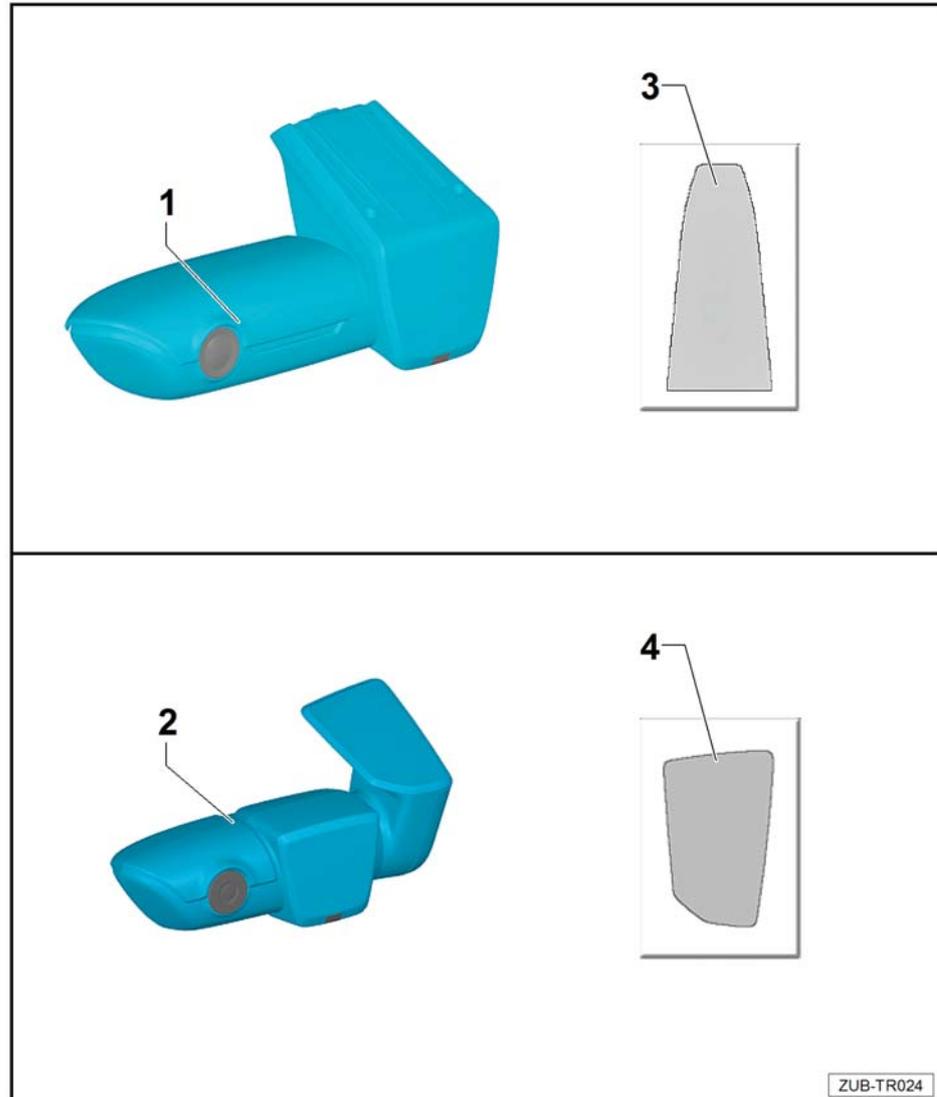
- ◆ To avoid damage to wires in the interior due to the limited space available, make sure that there is adequate clearance in relation to all moving components.



4 Overview of components, scope of delivery and overview of fitting location

4.1 Overview of components

- 1 - Front camera
- 2 - Rear camera
- 3 - Anti-glare film for front camera
- 4 - Anti-glare film for rear camera



4.2 Scope of delivery

4G0.063.511.A

Quantity	Component
1	Front camera
1	Rear camera
1	Camera wiring harness with coupling point
10	Cable tie N.020.904.5
3	Foam grommet 811.971.790
1	Anti-glare film for front camera



Quantity	Component
1	Anti-glare film for rear camera
1	Operating instructions

Not included in the scope of delivery, must be ordered separately: UTR wiring harness 4G0.063.511.B

Quantity	Component
1	UTR wiring harness for the on-board supply
1	Connector housing 1J0.972.751
2	Connector housing 893.971.632

Not included in the scope of delivery, must be ordered separately:

Quantity	Component
1	5-A mini fuse
1	10-A mini fuse

EN

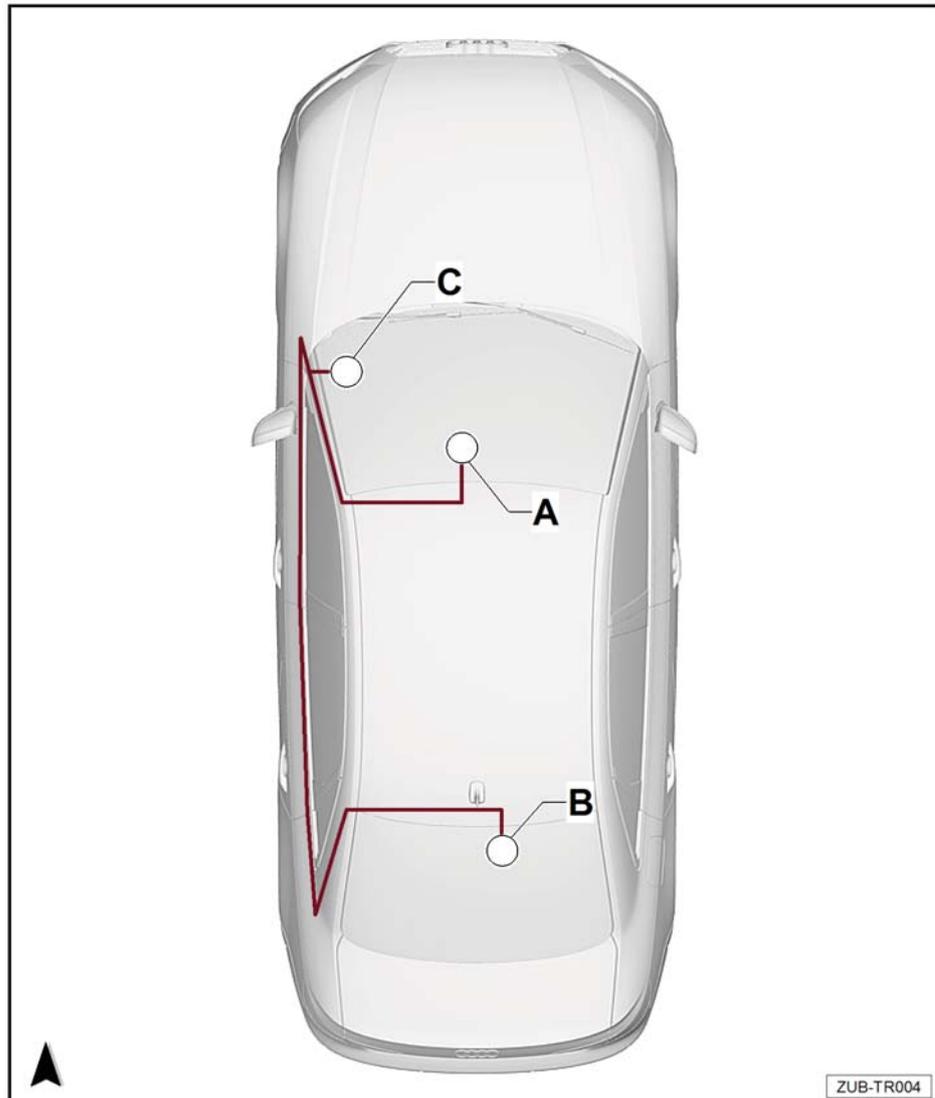


4.3 Overview of fitting location

A - Audi Universal Traffic Recorder with front camera

B - Rear camera

C - Connection to on-board supply





5 Sequence of operations

5.1 Preparations

ELSA reference

- Disconnecting the battery⇒ Electrical system; Rep. gr. 27; Battery; Disconnecting and connecting the battery
- Remove the roof module⇒ Interior equipment; Rep. gr. 68; Storage compartments, covers; Removing and installing the roof module
- Remove the driver side sun visor⇒ Interior equipment; Rep. gr. 68; Equipment; Removing and installing the sun visor
- Remove the A-pillar trim on the driver side⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the A-pillar trim
- Remove the footwell trim on the driver side⇒ General body repairs, interior; Rep. gr. 68; Interior trims; Removing and installing the footwell trim
- Remove the front seat on the driver side⇒ General body repairs, interior; Rep. gr. 72; Front seat; Removing and installing the front seat on the driver side.
- Remove the foot rest⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the foot rest
- Remove fuse carrier -ST2-⇒ Electrical system; Rep. gr. 97; Relay carrier, fuse carrier, electrical boxes; Removing and installing the fuse carrier
- Remove fuse carrier -ST4-⇒ Electrical system; Rep. gr. 97; Relay carrier, fuse carrier, electrical boxes; Removing and installing the fuse carrier
- Remove the sill panel trim on the front driver side⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the sill panel trim
- Remove the B-pillar trim on the driver side⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the B-pillar trim
- Remove the sill panel trim on the rear driver side⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the sill panel trim
- Remove the C-pillar trim on the driver side⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the C-pillar trim
- Remove the left-hand luggage compartment side trim ⇒ General body repairs, interior; Rep. gr. 70; Luggage compartment trims; Removing and installing the luggage compartment side trim



5.2 Connecting the UTR wiring harness – left-hand drive vehicle



WARNING

Observe the safety instructions for pyrotechnic components (see repair group 69).

Do not connect the head and neck airbag when installing the A-pillar trim. Route the UTR wiring harness behind the airbag and secure accordingly. The airbag must be able to function under all circumstances.



Note

- ◆ *Make sure that all routed wires are long enough to reach the installation position.*
- ◆ *Make sure that the wire for the mounting base of the front camera is long enough for it to be attached at the installation position.*
- ◆ *Remove any trim parts to determine the correct wire length.*

Routing the camera wiring harness

- Loosen the headliner slightly across the entire area of the windscreen so that the wiring harnesses can be fed through more easily.
- Carefully route the camera wiring harness through the roof module opening and further on between the windscreen and the headliner towards the front in the direction of the front camera installation position and leave it hanging there.
- Secure the camera wiring harness coupling point with a foam grommet to prevent noises from developing.
- Connect the UTR wiring harness for the on-board supply to the camera wiring harness coupling point.

Routing the UTR wiring harness for the on-board supply

- Route the entire UTR wiring harness under the headliner to the A-pillar on the driver side and further down to fuse carrier -ST4- and fuse carrier -ST2- to the bottom left in the footwell and fix it in place using cable ties.
- If necessary, fasten the individual wires in the area of the headliner together using fabric tape to prevent noises from developing.
- Unclip fuse carrier -ST2- from the fuse holder on the driver side.
- Unclip fuse carrier -ST4- from the fuse holder on the driver side.



Note

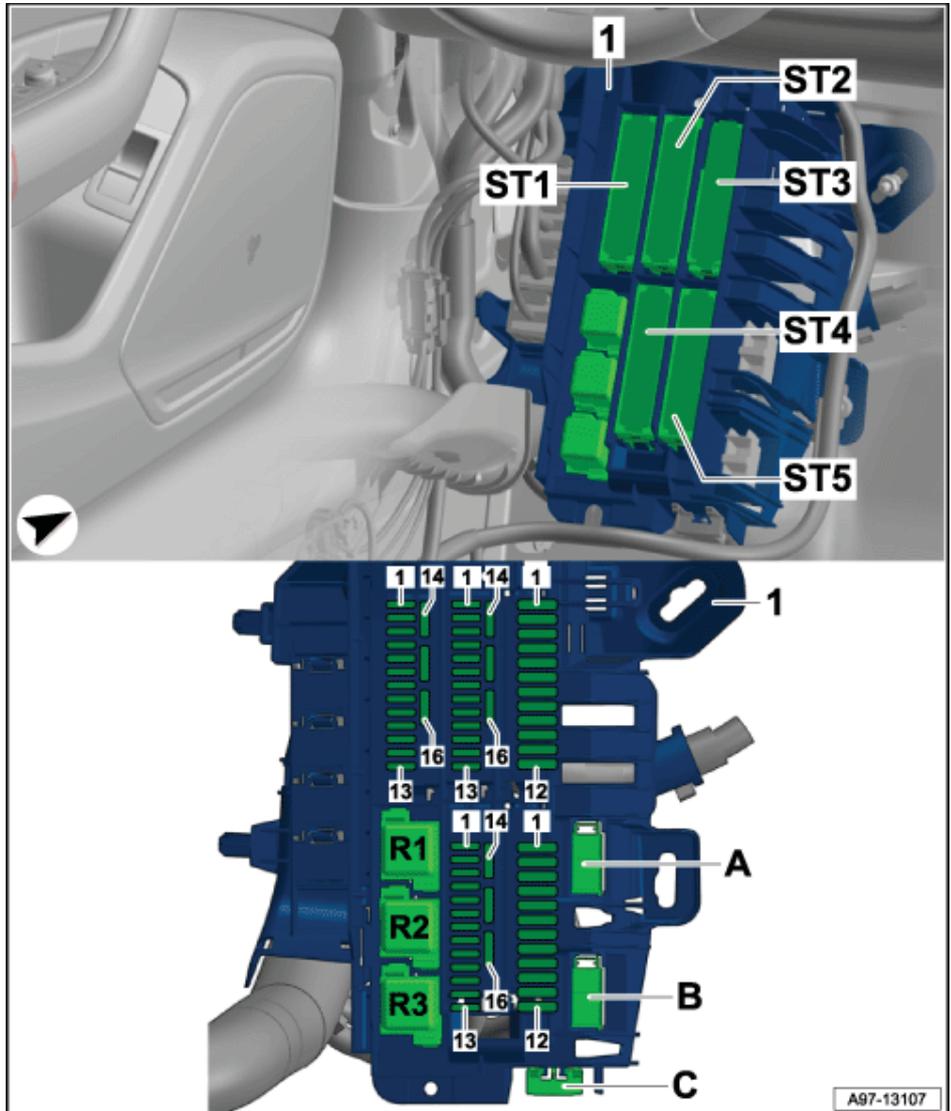
- ◆ *Make sure that the wire is long enough to connect the rear camera.*
- ◆ *Remove any trim parts to determine the correct wire length.*

- Route the rear camera wire along the standard wiring harness into the luggage compartment, then over the C-pillar to the position of the rear camera.

Connecting terminal 30 (red) of the UTR wiring harness for the on-board supply to fuse carrier -ST2-

⚠ WARNING

The UTR wiring harness can be used for several vehicles. To connect the wiring harness in the Audi A5, use the red wire with the small pin and the plug-in connector with the small contact. Insert the remaining red wire with the large pin into the supplied connector housing (1J0.972.751). Now connect the connector housing with the remaining plug-in connector (with the large contact). Secure the loop and connector formed as a result of this process to prevent noises from developing.



- Unclip fuse carrier -ST2- from the fuse holder on the driver side.
- Unpin the standard wiring harness on fuse carrier -ST2- from the following chamber:
 - ◆ Chamber 12
- Pin the unpinned contact -12- into the connector housing supplied (893.971.632) and insert into the corresponding connector on the UTR wiring harness.
- Pin the free wire (red) on the UTR wiring harness into the free chamber -12-.
- Insert the 5 A mini fuse.



Connecting terminal 15 (green) of the UTR wiring harness for the on-board supply to fuse carrier -ST4-

⚠ WARNING

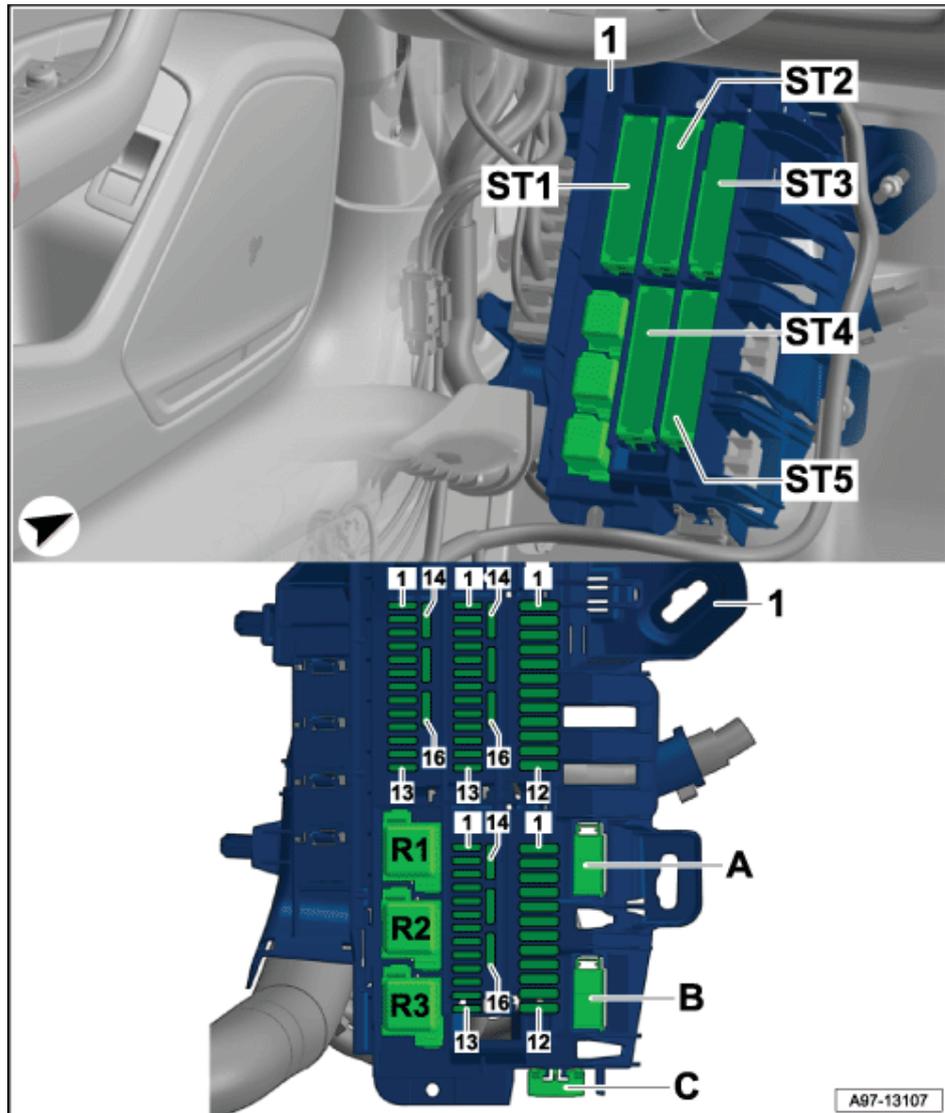
For vehicles in which chamber 8 is not occupied by a pin, the free wire (green) must be pinned in directly. (10-A mini fuse) Fix the remaining plug-in connector in position on the UTR wiring harness and secure to prevent noises from developing.

- Unclip fuse carrier -ST4- from the fuse holder on the driver side.
- Unpin the standard wiring harness on fuse carrier -ST4- from the following chamber:
 - ◆ Chamber 8
- Pin the unpinned contact -8- into the connector housing supplied (893.971.632) and insert into the corresponding connector on the UTR wiring harness.
- Pin the free wire (green) on the UTR wiring harness into the free chamber -8-.
- Insert the 10 A mini fuse.
- Attach the earth wire (black) on the UTR wiring harness to the earth point in the footwell on the left on the driver side.

i Note

The earth point should be selected based on the cable length.

- If all connection work has been completed, fix the coupling point of the roof module in place so that no noise is generated and nothing is disturbed during the installation of the roof module.





5.3 Connecting the UTR wiring harness – right-hand drive vehicles

 **WARNING**

Observe the safety instructions for pyrotechnic components (see repair group 69).

Do not connect the head and neck airbag when installing the A-pillar trim. Route the UTR wiring harness behind the airbag and secure accordingly. The airbag must be able to function under all circumstances.

 **Note**

- ◆ *Make sure that all routed wires are long enough to reach the installation position.*
- ◆ *Make sure that the wire for the mounting base of the front camera is long enough for it to be attached at the installation position.*
- ◆ *Remove any trim parts to determine the correct wire length.*

Routing the camera wiring harness

- Loosen the headliner slightly across the entire area of the windscreen so that the camera wiring harness can be fed through more easily.
- Carefully route the camera wiring harness through the roof module opening and further on between the windscreen and the headliner towards the front in the direction of the front camera installation position and leave it hanging there.
- Secure the camera wiring harness coupling point with a foam grommet to prevent noises from developing.
- Connect the UTR wiring harness for the on-board supply to the camera wiring harness coupling point.

Routing the UTR wiring harness for the on-board supply

- Route the entire UTR wiring harness under the headliner to the A-pillar on the driver side and further down to fuse carrier -ST4- and fuse carrier -ST2- to the bottom left in the footwell and fix it in place using cable ties.
- If necessary, fasten the individual wires in the area of the headliner together using fabric tape to prevent noises from developing.
- Unclip fuse carrier -ST2- from the fuse holder on the driver side.
- Unclip fuse carrier -ST4- from the fuse holder on the driver side.



Connecting terminal 30 (red) of the UTR wiring harness for the on-board supply to fuse carrier -ST2-

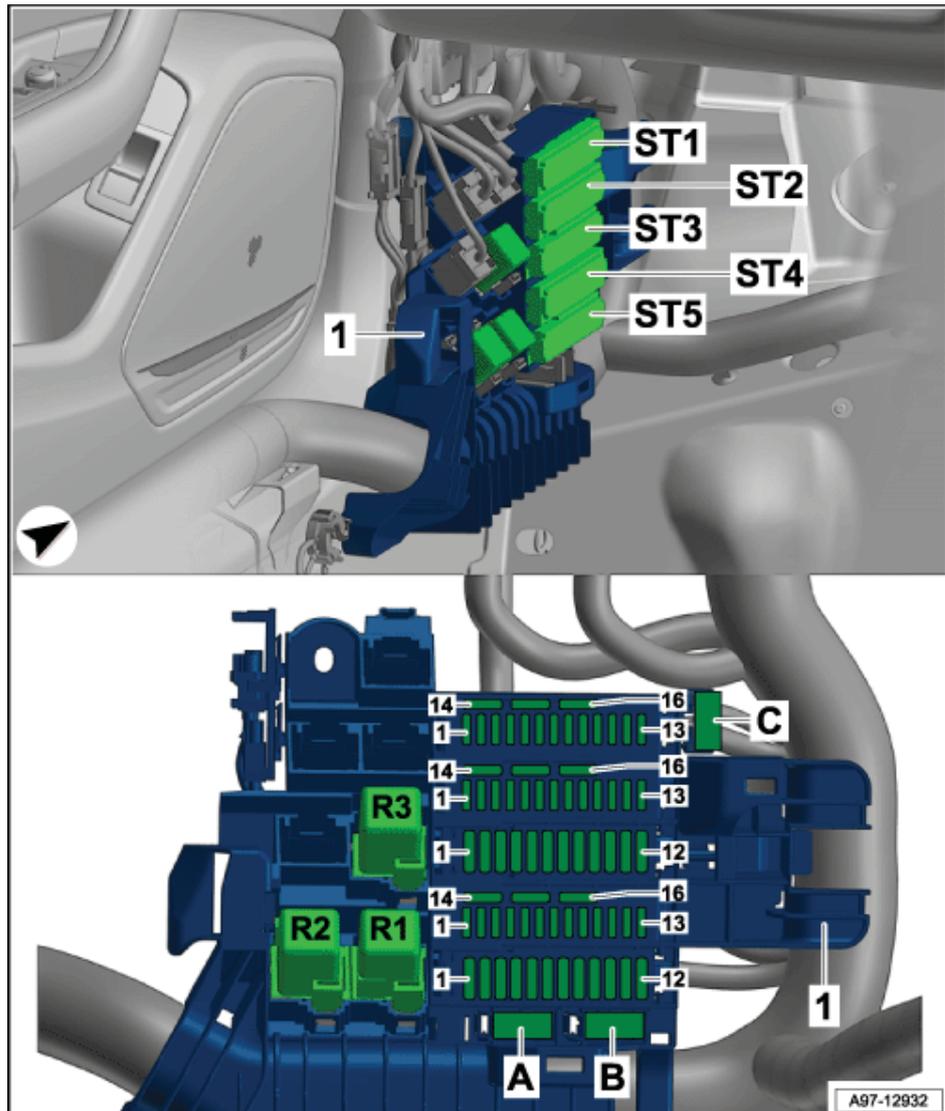
⚠ WARNING

The UTR wiring harness can be used for several vehicles. To connect the wiring harness in the Audi A5, use the red wire with the small pin and the plug-in connector with the small contact. Insert the remaining red wire with the large pin into the supplied connector housing (1J0.972.751). Now connect the connector housing with the remaining plug-in connector (with the large contact). Secure the loop and connector formed as a result of this process to prevent noises from developing.

- Unpin the standard wiring harness on fuse carrier -ST2- from the following chamber:

◆ Chamber 12

- Pin the unpin contact -12- into the connector housing supplied (893.971.632) and insert into the corresponding connector on the UTR wiring harness.
- Pin the free wire (red) on the UTR wiring harness into the free chamber -12-.
- Insert the 5 A mini fuse.



Connecting terminal 15 (green) of the UTR wiring harness for the on-board supply to fuse carrier -ST4-

⚠ WARNING

For vehicles in which chamber 8 is not occupied by a pin, the free wire (green) must be pinned in directly. (10-A mini fuse) Fix the remaining plug-in connector in position on the UTR wiring harness and secure to prevent noises from developing.

- Unpin the standard wiring harness on fuse carrier -ST4- from the following chamber:

◆ Chamber 8

- Pin the unpinned contact -8- into the connector housing supplied (893.971.632) and insert into the corresponding connector on the UTR wiring harness.
- Pin the free wire (green) on the UTR wiring harness into the free chamber -8-.
- Insert the 10 A mini fuse.
- Attach the earth wire (black) on the UTR wiring harness to the earth point in the footwell on the left on the driver side.

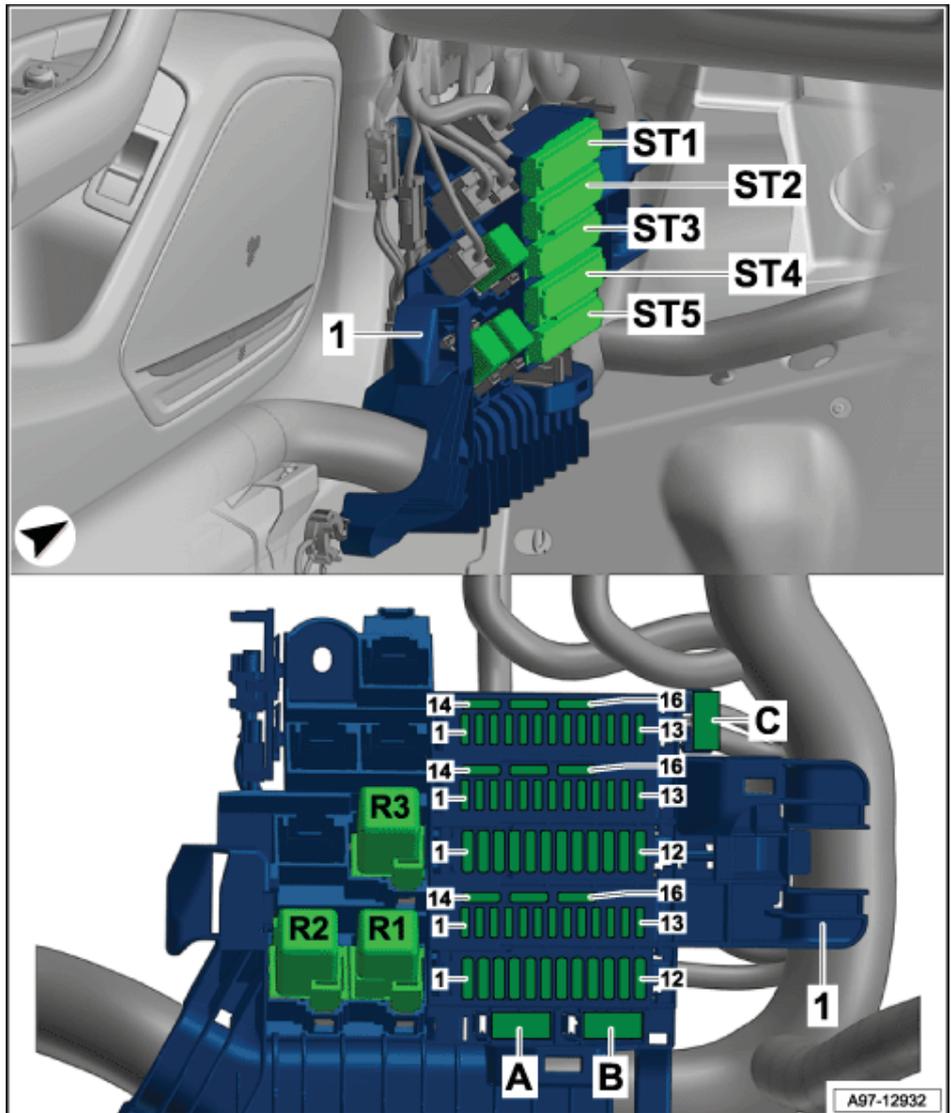
📘 Note

The earth point should be selected based on the cable length.

- If all connection work has been completed, fix the coupling point of the roof module in place so that no noise is generated and nothing is disturbed during the installation of the roof module.

5.4 Assembling the vehicle

- Reassemble the vehicle by following these steps in reverse order.





5.5 Installing the front camera

WARNING

The appendix of the fitting instructions contains a template for positioning the anti-glare film supplied for the front camera.

Print out the template.

The template features a positioning mark. Using a ruler, measure the positioning mark. This must be 10 cm.

If the dimension is too small or large, the printer options must be changed from "Fit" to "Actual size".

Note

- ◆ Install the front camera only in the specified area of the windscreen.
- ◆ Before fitting the front camera, thoroughly clean the windscreen using workshop tools.
- ◆ The windscreen must be free from dust and grease.

Assembly sequence

Image 1 - From outside the vehicle, determine the centre of the windscreen and mark this position.

Image 2 - After selecting the cutting edge, cut the template
→ Page 15 along the dotted line -arrow A-. Also cut out the section for the middle of the window -arrow C- and for the camera base -arrow B-.

Image 3 - Position the template in the centre and on the upper edge of the windscreen and fix it in place using adhesive tape. The writing on the template must be the right way up facing outwards. Remove the protective paper from the anti-glare film.

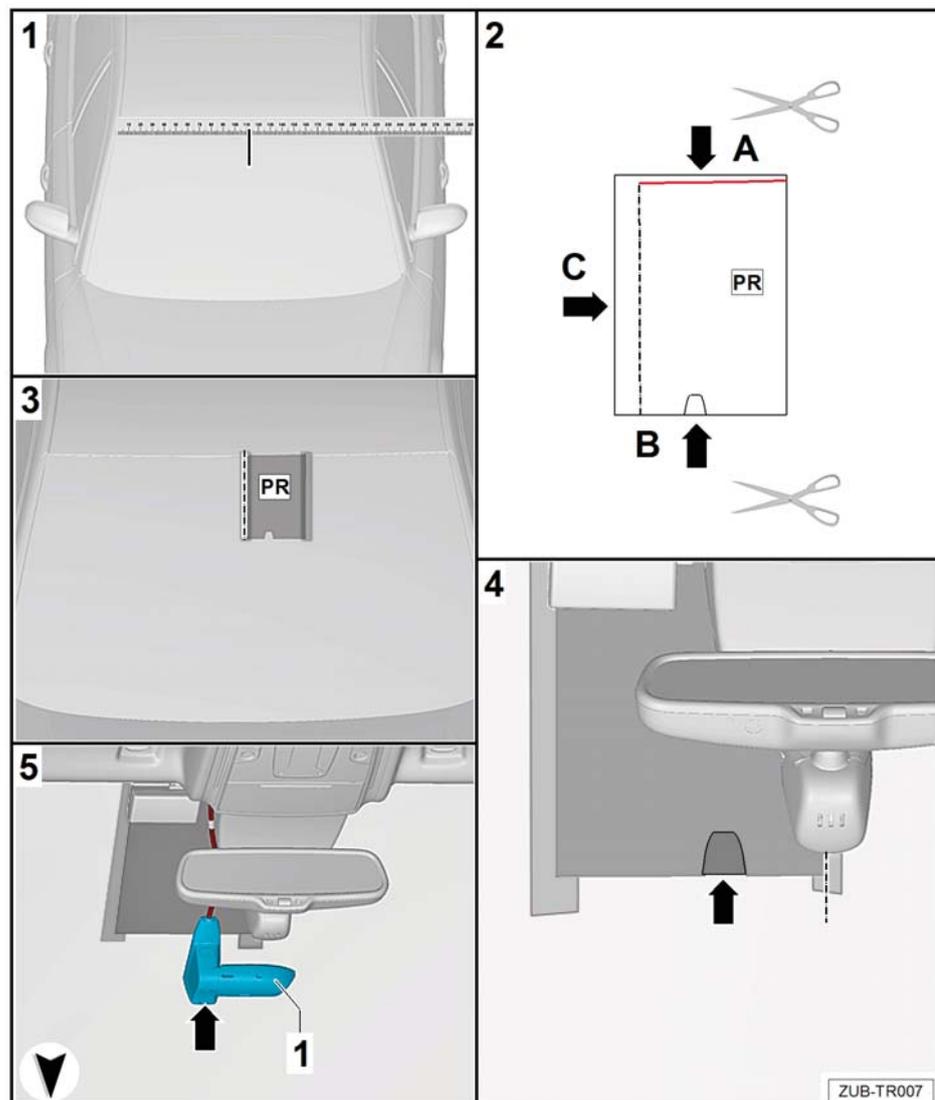


Image 4 - Position the anti-glare film -arrow- on the inside of the windscreen using the template and carefully press it on.

Note

Starting in the middle, carefully press trapped air outwards using a squeegee or a cloth.

Image 5 - Clip the front camera -1- into the mounting base, position this on the inside of the windscreen on the anti-glare film -arrow- and carefully press it on.

Note

Assistance from a second technician is required to position the camera with precision.

5.6 Selecting the correct cutting edge on the template



WARNING

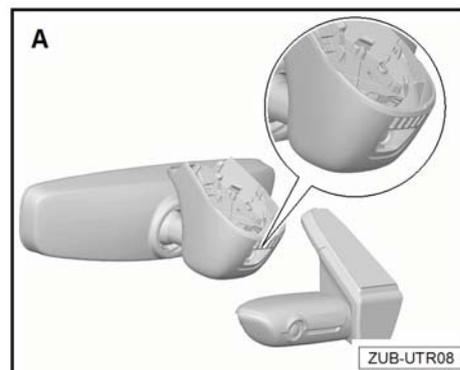
The cutting edges defined via the equipment variants have been tested via a field of vision inspection and must be complied with.



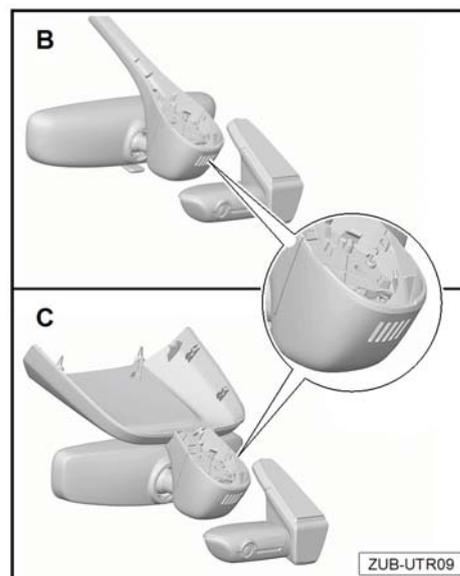
Note

Check the respective equipment variant on the mirror base and then select the cutting edge on the template.

– Equipment variant for cutting edge -A-.



– Equipment variant for cutting edge -B or C-.





5.7 Installing the rear camera

Note

- ◆ *Install the rear camera only in the specified area of the rear window.*
- ◆ *Before fitting the rear camera, thoroughly clean this area of the rear window.*

Assembly sequence

Image 1 - From inside the vehicle, determine the centre of the rear window and mark this position.

Image 2 - From the centre, measure 50 mm to the left and mark this point.

Image 3 - Remove the protective paper from the anti-glare film. On the inside of the rear window, position the anti-glare film so that the left edge is on the marking -arrow- and the top edge is on the rear lid trim/third brake light trim. Carefully press on the anti-glare film.

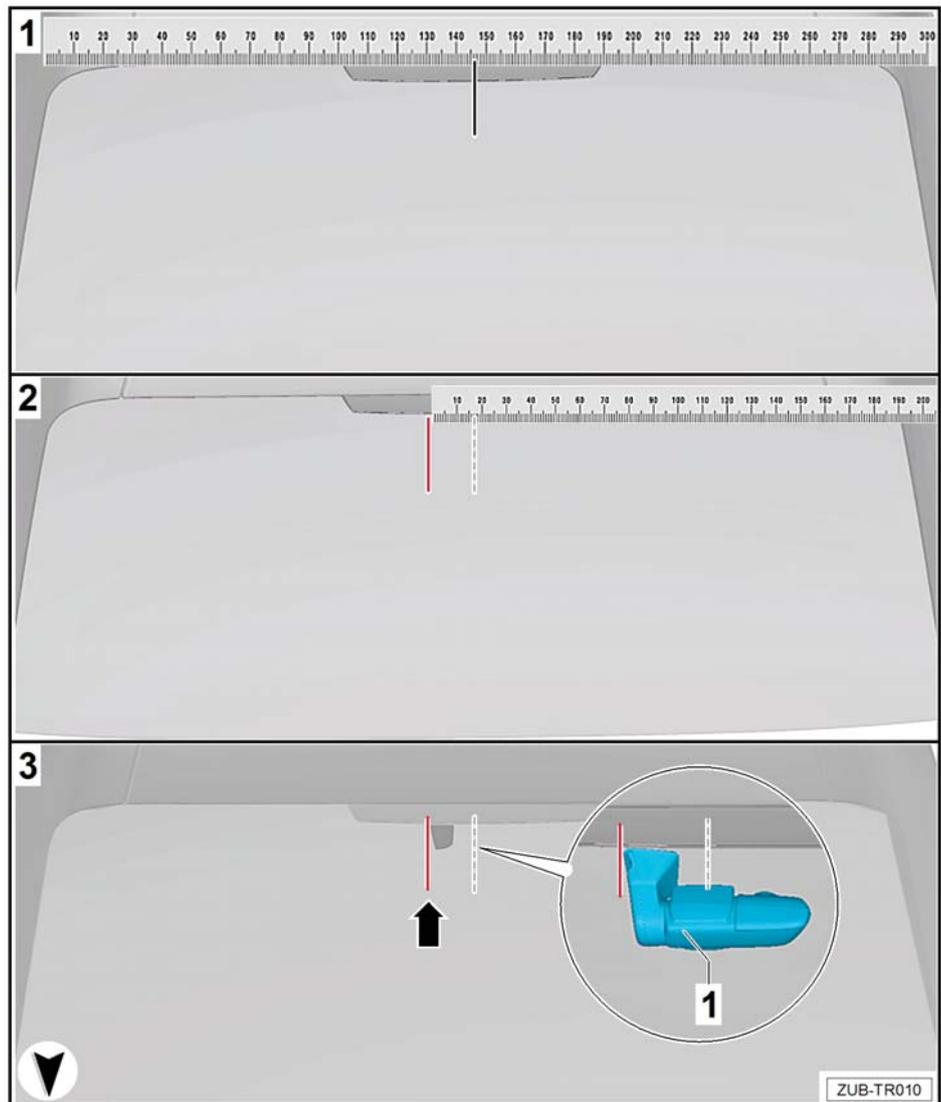
Note

- ◆ Note the installation position of the anti-glare film.
- ◆ Starting in the middle, carefully press trapped air outwards using a squeegee or a cloth.
- ◆ Have a second technician outside the vehicle help determine the exact position of the camera.

- Align the rear camera -1- on the anti-glare film and stick it in place -magnifying glass in image 3-.
- Connect the supply wire for the rear camera, route the cable so that it is out of view and secure it using cable ties to prevent noises from developing.

Note

Route any excess wire back into the trim.



5.8 Concluding operations

- Connect the battery ⇒ Electrical system; Rep. gr. 27; Battery; Disconnecting and connecting the battery

If the battery is being reconnected, the following steps must be taken:

- ◆ Clear the fault memory.
- ◆ Activate the one-touch opening and closing of the electric windows ⇒ operating instructions.



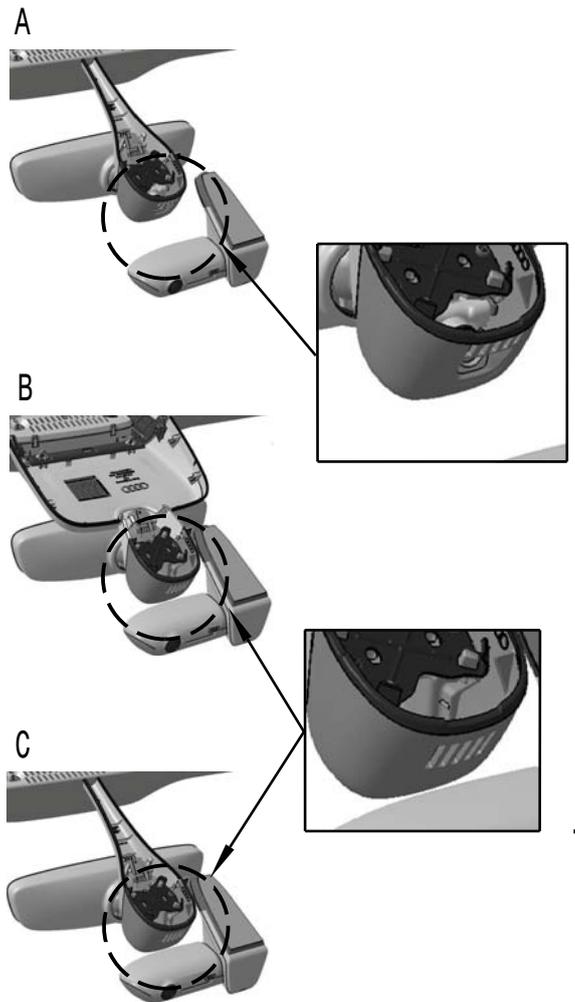
- ◆ Synchronise secondary and additional keys to ensure the remote control functions correctly. To do this, insert the key into the ignition lock, switch the ignition on and off again and then remove the key.

 **Note**

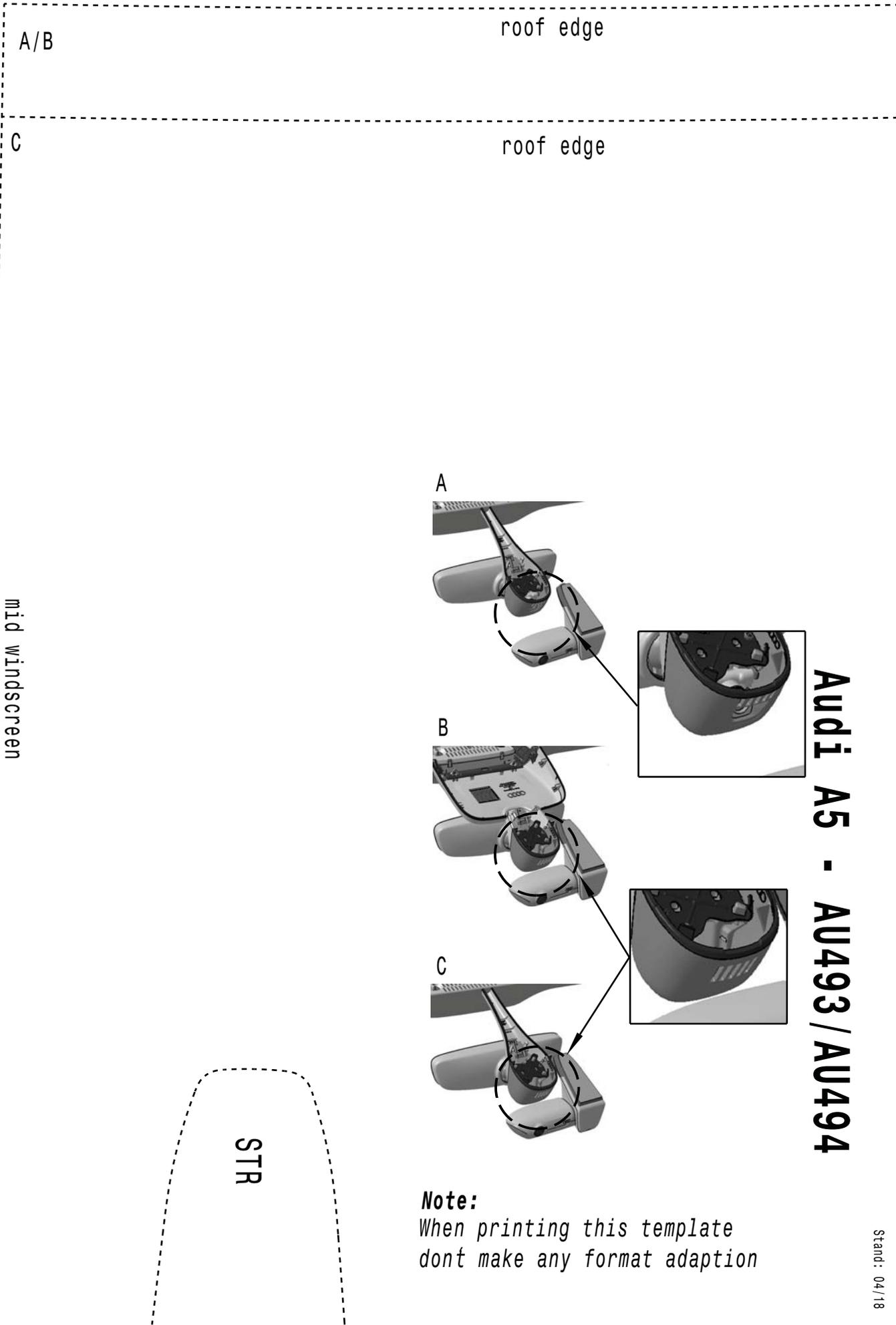
After reconnecting the power supply, the ESP warning light can only extinguish after a few metres have been driven.

- Perform a function test for the camera ⇒ UTR operating instructions

Audi A5 - AU493/AU494



Note:
When printing this template
dont make any format adaption



Check dimensional change!
Nominal size: 10cm

Installation instructions

Audi Universal Traffic Recorder – UTR

Audi A6/A7 (4G) 2011 ►

Audi A6/A7 (4G) 2015 ►

For scope of delivery

4G0.063.511.A and 4G0.063.511.F (UK)

Audi Genuine Accessories

Edition 01



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1 General notes

Please read these instructions carefully and note the Warning, Caution and Note descriptions before installing the Audi Universal Traffic Recorder.



WARNING

Text with this symbol contains information concerning your safety and indicates potential accident and injury risks.



Caution

Text with this symbol indicates the risk of damage to your vehicle.



Note

Text with this symbol contains additional information.



Note

- ◆ *The Audi Universal Traffic Recorder must be installed by a qualified workshop. Special tools and supplementary vehicle-specific literature will be needed to perform the installation. Improper installation can cause damage to the vehicle or to the Audi Universal Traffic Recorder.*
- ◆ *The work to be performed on the vehicle, as detailed in these fitting instructions, may change as a result of measures to upgrade models. Consequently, modifications to connectors, wire colours or even the fitting location, for instance, should not be ruled out. For this reason, make sure that you always refer to the most current wiring diagram and/or the current repair manuals for the vehicle.*
- ◆ *We reserve the right to make technical changes.*

Audi AG shall not accept responsibility in the event of failure to comply with these installation instructions.



2 Safety notes

2.1 General safety notes



WARNING

Please read these installation instructions carefully before starting installation. Non-compliance with these installation instructions and safety notes will compromise your safety and that of third parties.



WARNING

All mechanical and electrical connections must be checked to make sure that they are positioned and installed correctly.



WARNING

Repairs or the replacement of parts must only be performed by a qualified workshop. It is recommended that genuine spare parts available from your Audi partner are used.



WARNING

The Audi Universal Traffic Recorder has no internal voltage source and is dependent on the on-board supply.



3 Repair instructions

3.1 Contact corrosion

Contact corrosion can occur when unsuitable connecting elements (screws, nuts, washers) are used.

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

Additionally, rubber or plastic parts and adhesives are made of materials that are not electrically conductive.

If you are in any doubt about the suitability of parts, use new parts as a general rule ⇒ Electronic parts catalogue.

Please note:

- ◆ We recommend using only genuine spare parts; these parts have been tested and are compatible with aluminium.
- ◆ We recommend using Audi Genuine Accessories.
- ◆ Damage caused by contact corrosion is not covered by the warranty.

3.2 Routing and securing lines



WARNING

Observe the safety instructions for pyrotechnic components (see repair group 69).

During installation, ensure that the airbag does not become trapped. Route the wiring harness behind the airbag and secure accordingly. The airbag must be able to function under all circumstances.

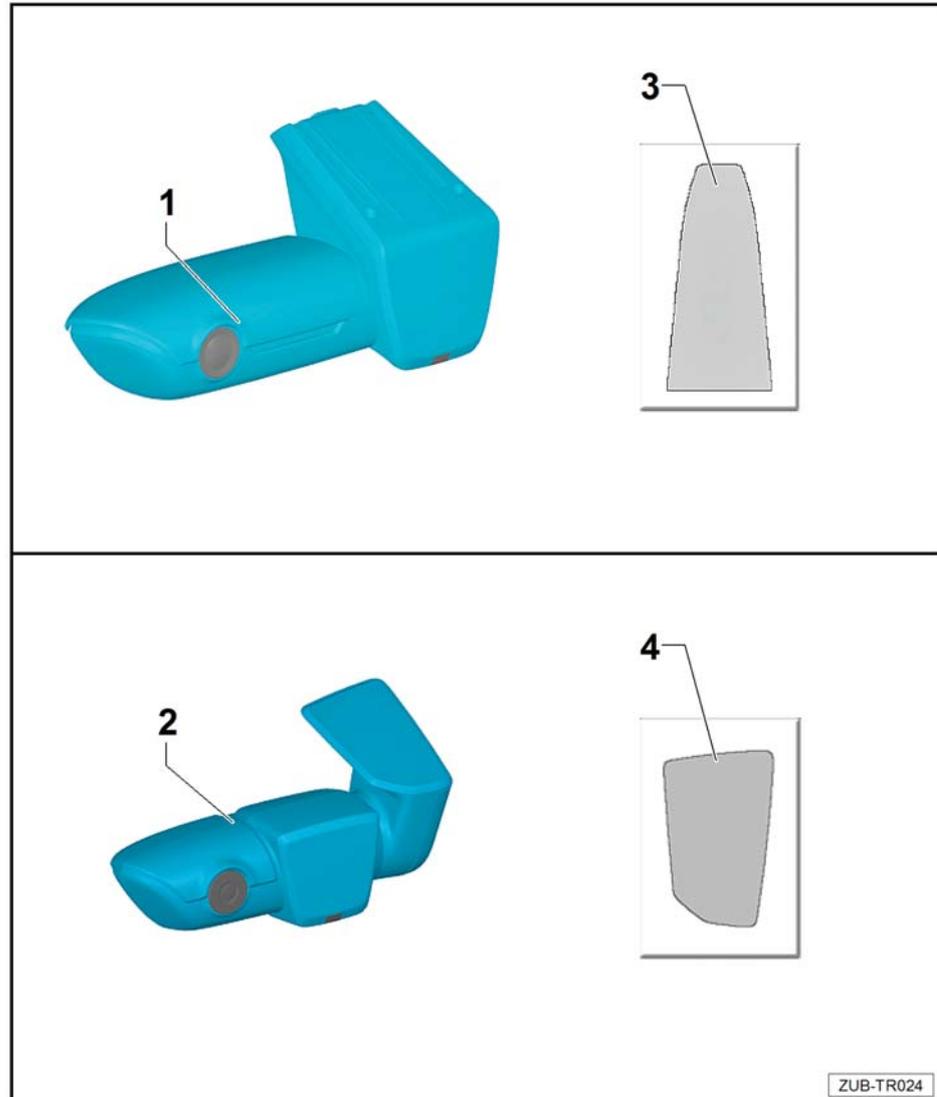
- ◆ To avoid damage to wires in the interior due to the limited space available, make sure that there is adequate clearance in relation to all moving components.



4 Overview of components, scope of delivery and overview of fitting location

4.1 Overview of components

- 1 - Front camera
- 2 - Rear camera
- 3 - Anti-glare film for front camera
- 4 - Anti-glare film for rear camera



4.2 Scope of delivery

4G0.063.511.A and 4G0.063.511.F (UK)

Quantity	Component
1	Front camera
1	Rear camera
1	Camera wiring harness with coupling point
1	Anti-glare film for front camera
1	Anti-glare film for rear camera
1	Operating instructions



Not included in the scope of delivery, must be ordered separately: UTR wiring harness 4G0.063.511.B

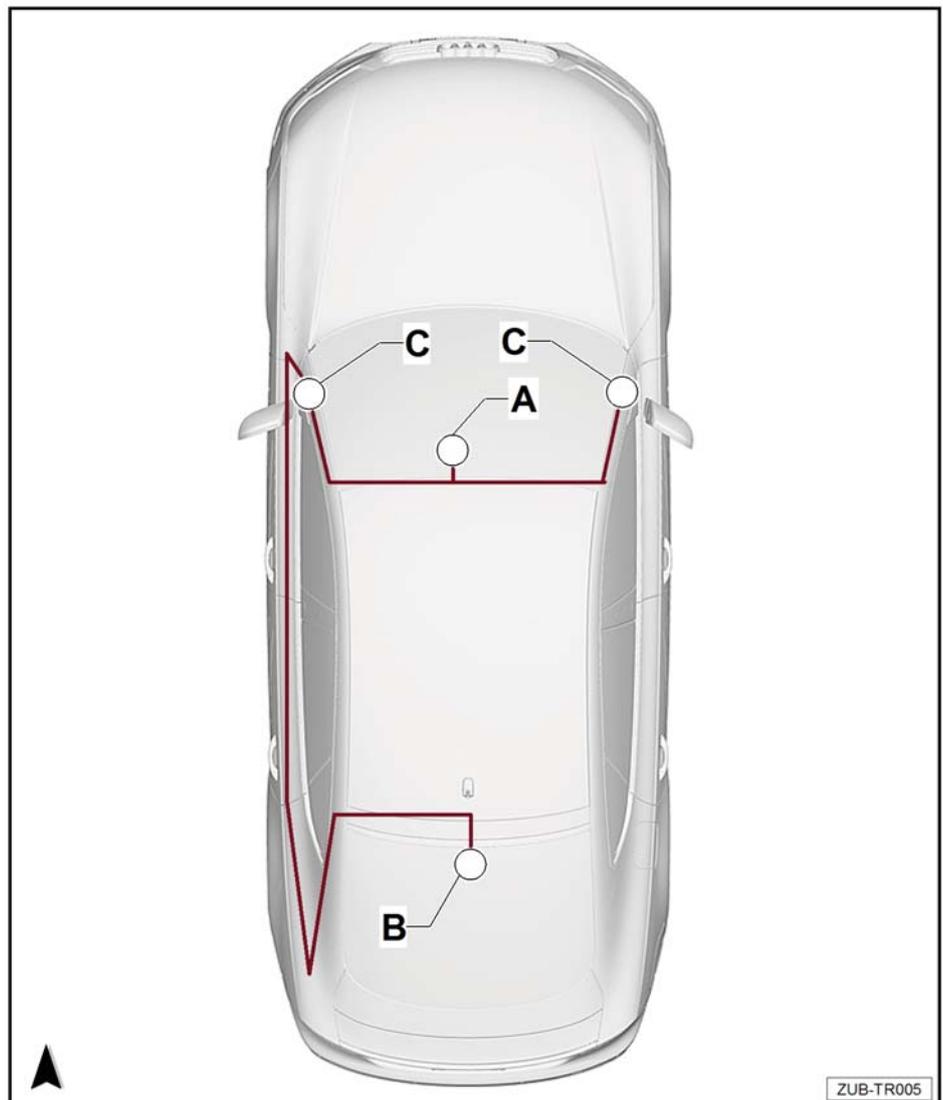
Quantity	Component
1	UTR wiring harness for the on-board supply
5	Cable tie N.020.904.5
3	Foam grommet 811.971.790
1	Connector housing 1J0.972.751
2	Connector housing 893.971.632

4.3 Overview of fitting location

⚠ Caution

This image shows the routing of the wiring harness for a left-hand drive vehicle. Connection in right-hand drive vehicles is performed in a mirror-inverted sequence – risk of confusion!

- A** - Position of front camera
- B** - Position of rear camera
- C** - Connection to on-board supply





5 Sequence of operations

5.1 Preparations

ELSA reference

- Disconnect the battery ⇒ Electrical system; Rep. gr. 27; Battery; Disconnecting and connecting the battery
- Remove the roof module ⇒ Interior equipment; Rep. gr. 68; Storage compartments, covers; Removing and installing the roof module
- Remove the mirror base cover ⇒ Interior equipment; Rep. gr. 68; Storage compartments, covers; Removing and installing the mirror base cover
- Remove the driver side sun visor ⇒ Interior equipment; Rep. gr. 68; Equipment; Removing and installing the sun visor
- Remove the passenger side sun visor ⇒ Interior equipment; Rep. gr. 68; Equipment; Removing and installing the sun visor
- Remove the side dash panel cover on the driver side ⇒ General body repairs, interior; Rep. gr. 68; Storage compartments, covers; Removing and installing the side dash panel cover on the driver side
- Remove the side dash panel cover on the passenger side ⇒ General body repairs, interior; Rep. gr. 68; Storage compartments, covers; Removing and installing the side dash panel cover on the passenger side
- Remove the top dash panel cover ⇒ General body repairs, interior; Rep. gr. 68; Storage compartments, covers; Removing and installing the top dash panel cover
- Remove the A-pillar trim on the driver side ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the A-pillar trim on the driver side
- Remove the A-pillar trim on the passenger side ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the A-pillar trim on the passenger side
- Remove the footwell trim on the driver side ⇒ General body repairs, interior; Rep. gr. 68; Interior trims; Removing and installing the footwell trim
- Remove the sill panel trim on the front driver side ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the sill panel trim
- Remove the B-pillar trim on the driver side ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the B-pillar trim on the driver side
- Remove the sill panel trim on the rear driver side ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the sill panel trim
- Remove the C-pillar trim on the driver side ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the C-pillar



- Remove the D-pillar trim on the driver side ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the D-pillar
- Remove the left-hand luggage compartment side trim ⇒ General body repairs, interior; Rep. gr. 70; Luggage compartment trims; Removing and installing the luggage compartment side trim

Also applies to the A6 Avant

- Remove the rear lid trim ⇒ General body repairs, interior; Rep. gr. 70; Luggage compartment trim; Removing and installing the rear lid trim

5.2 Connecting the UTR wiring harness – left-hand drive vehicle

WARNING

Observe the safety instructions for pyrotechnic components (see repair group 69).

Caution

This chapter describes the routing of the UTR wiring harness for a left-hand drive vehicle. Connection in right-hand drive vehicles is performed in a mirror-inverted sequence – risk of confusion!

Note

- ◆ *Make sure that all routed wires are long enough to reach the installation position.*
- ◆ *Make sure that the wire for the mounting base of the front camera is long enough for it to be attached at the installation position.*
- ◆ *Remove any trim parts to determine the correct wire length.*

Supply wire with front camera mounting base

- Loosen the headliner slightly across the entire area of the windscreen so that the camera wiring harness can be fed through more easily.
- Carefully route the camera wiring harness through the roof module opening and further on between the windscreen and the headliner towards the front in the direction of the front camera installation position and leave it hanging there.
- Secure the camera wiring harness coupling point with a foam grommet to prevent noises from developing.
- Connect the UTR wiring harness for the on-board supply to the camera wiring harness coupling point.

Routing terminal 30 (red) of the UTR wire for electrical connection to the on-board supply

- From the coupling point, route UTR wire terminal 30 (red) under the headliner to the A-pillar on the passenger side.

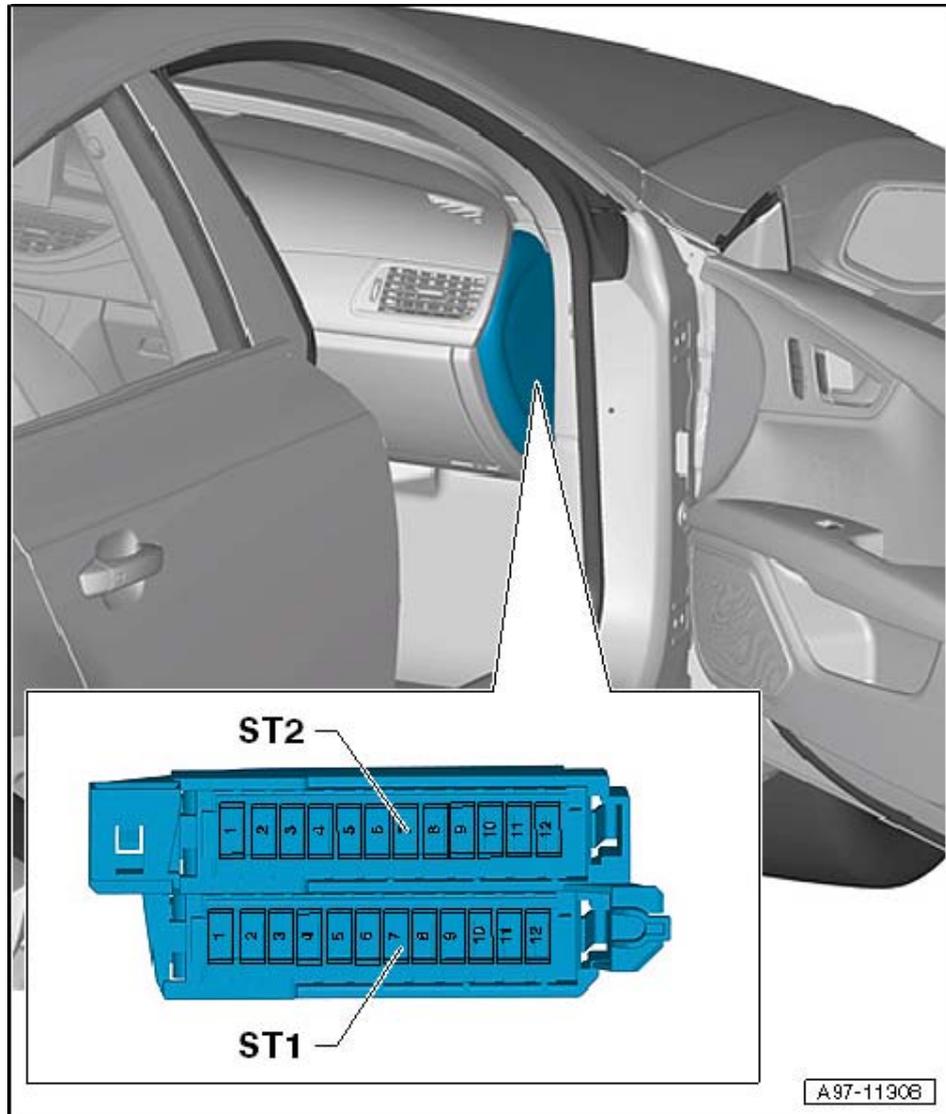


- Then route UTR wire terminal 30 (red) further down to fuse carrier -ST2-.
- Unclip fuse carrier -ST2- from the fuse holder on the driver side.

Connecting terminal 30 (red) of the UTR wiring harness to fuse carrier -ST2-

WARNING

The UTR wiring harness can be used for several vehicles. To connect the wiring harness in the Audi A6, use the red wire with the large pin and the plug-in connector with the large contact. Insert the remaining red wire with the small pin into the supplied connector housing (893.971.632). Now connect the connector housing with the remaining plug-in connector (with the small contact). Secure the loop and connector formed as a result of this process to prevent noises from developing.



- Unpin the standard wiring harness on fuse carrier -ST2- from the following chamber:
 - ◆ Chamber 3
- Pin the unpinned contact -3- into the connector housing provided (1J0.972.751).
- Secure the connector housing with the foam grommet to prevent noises from developing and insert it into the relevant connector of the UTR wiring harness.
- Pin the free wire (red) on the UTR wiring harness into the free chamber -3-.

Routing terminal 15 (green) and the earth wire (black) of the UTR wire for electrical connection to the on-board supply

- Route UTR wire terminal 15 (green) and earth wire (black) to the A-pillar on the driver side.
- From the A-pillar on the driver side, the UTR wire terminal 15 (green) and earth wire (black) is routed further down to fuse carrier -ST2-.
- Unclip fuse carrier -ST1- from the fuse holder on the passenger side.

Routing the supply wire for the rear camera

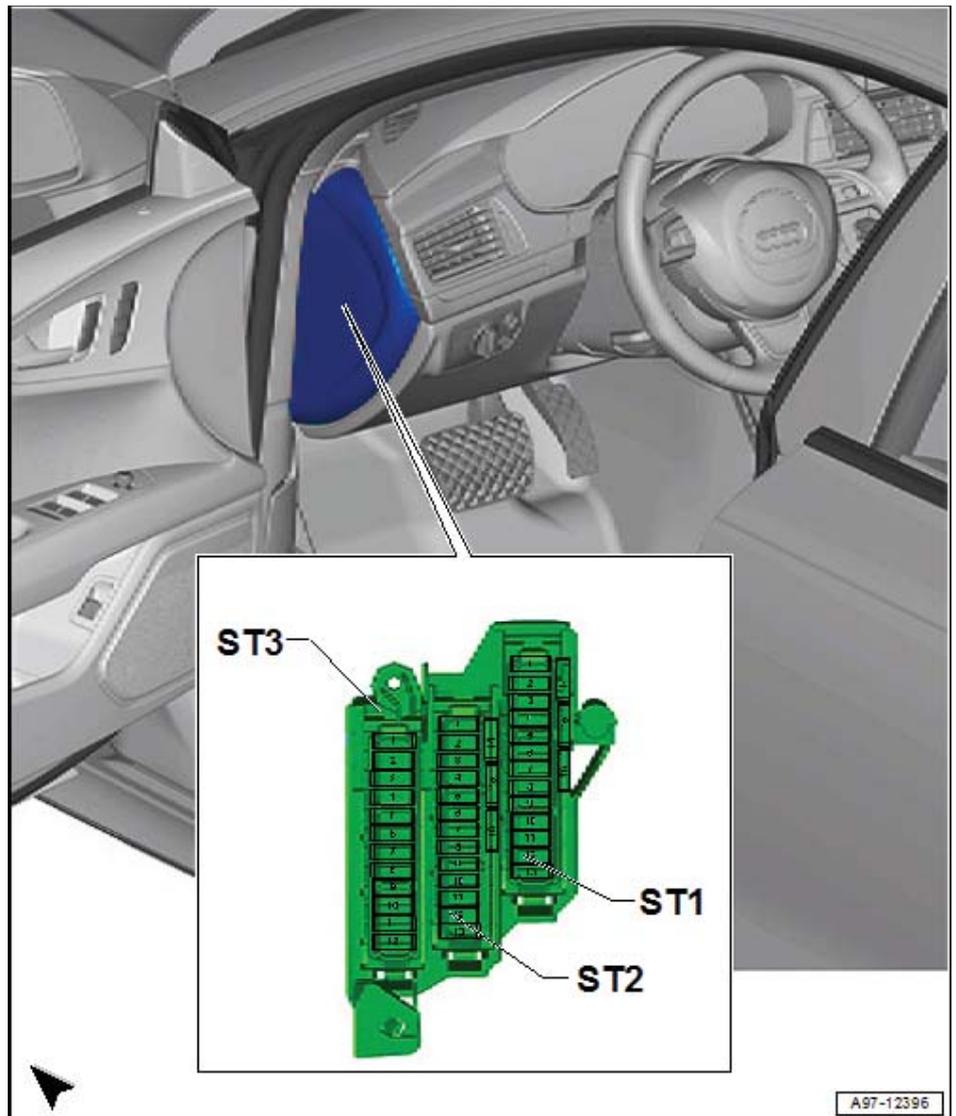


Note

- ◆ *Make sure that the wire is long enough to connect the rear camera.*
- ◆ *Remove any trim parts to determine the correct wire length.*
- From the coupling point, route the rear camera wire under the headliner to the A-pillar on the driver side.
- Route the rear camera wire along the standard wiring harness into the luggage compartment, then over the C-pillar to the position of the rear camera.

Connecting terminal 15 (green) of the UTR wiring harness to fuse carrier -ST1-

- Unpin the standard wiring harness on fuse carrier -ST1- from the following chamber:
 - ◆ Chamber 10
- Pin the unpinned contact -10- into the connector housing provided (893.971.632).
- Secure the connector housing with the foam grommet to prevent noises from developing and insert it into the relevant connector of the UTR wiring harness.
- Pin the free wire (green) on the UTR wiring harness into the free chamber -10-.
- Attach the earth wire (black) on the UTR wiring harness to a suitable earth point in the footwell on the driver side.



Note

The earth point should be selected based on the cable length.

- If all connection work has been completed, fix the coupling point of the roof module in place so that no noise is generated and nothing is disturbed during the installation of the roof module.
- If necessary, fasten the individual wires in the area of the headliner together using fabric tape to prevent noises from developing.
- Fix the UTR wiring harness, earth wire and supply wire for the rear camera in position on the standard wiring harness using cable ties and secure to prevent noises from developing.



5.3 Assembling the vehicle

- Reassemble the vehicle by following these steps in reverse order.

5.4 Installing the front camera

 **WARNING**

The appendix of the fitting instructions contains a template for positioning the anti-glare film supplied for the front camera.

Print out the template.

The template features a positioning mark. Using a ruler, measure the positioning mark. This must be 10 cm.

If the dimension is too small or large, the printer options must be changed from “Fit” to “Actual size”.

 **Note**

- ◆ *Install the front camera only in the specified area of the windscreen.*
- ◆ *Before fitting the front camera, thoroughly clean the windscreen using workshop tools.*
- ◆ *The windscreen must be free from dust and grease.*



Assembly sequence

Image 1 - From outside the vehicle, determine the centre of the windscreen and mark this position.

Image 2 - Use the template that corresponds with the PR number for the mirror base equipment variant and cut the template along the dotted line -arrow A- and -arrow C-. Also cut out the position of the camera base -arrow B-.

Note

Note the PR number of the mirror base equipment variant ⇒ table shown below.

Image 3 - Position the template in the centre and on the upper edge of the windscreen and fix it in place using adhesive tape. The writing on the template must be the right way up facing outwards. Remove the protective paper from the anti-glare film.

Image 4 - Position the anti-glare film -arrow- on the inside of the windscreen using the template and carefully press it on.

Note

Starting in the middle, carefully press trapped air outwards using a squeegee or a cloth.

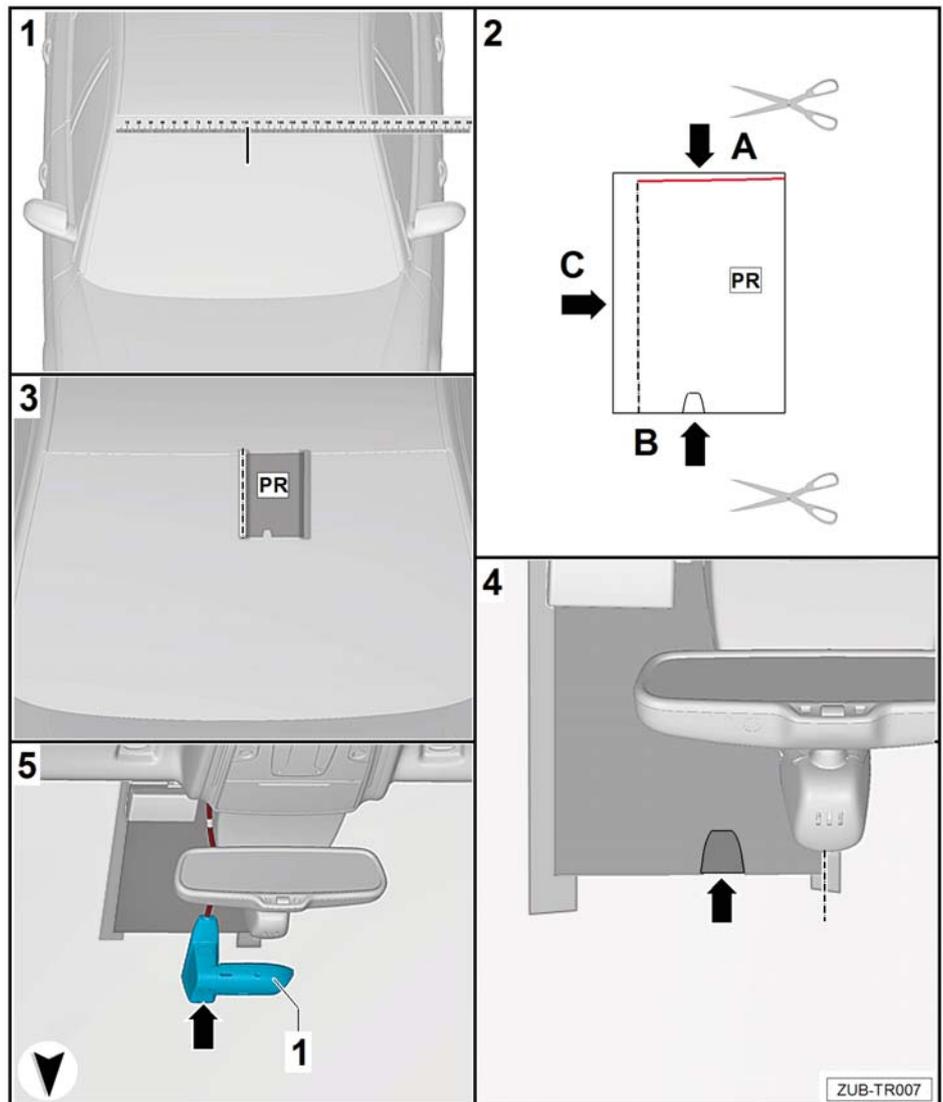
Image 5 - Clip the front camera -1- into the mounting base, position this on the inside of the windscreen on the anti-glare film -arrow- and carefully press it on.

Note

Assistance from a second technician is required to position the camera with precision.

Equipment variants in accordance with PR number

8G0	No main beam assist
8G1	Main beam assist
8G4	Matrix Beam





QK0	No camera for assistance systems
QK1	Camera for assistance systems

5.5 Installing the rear camera

Note

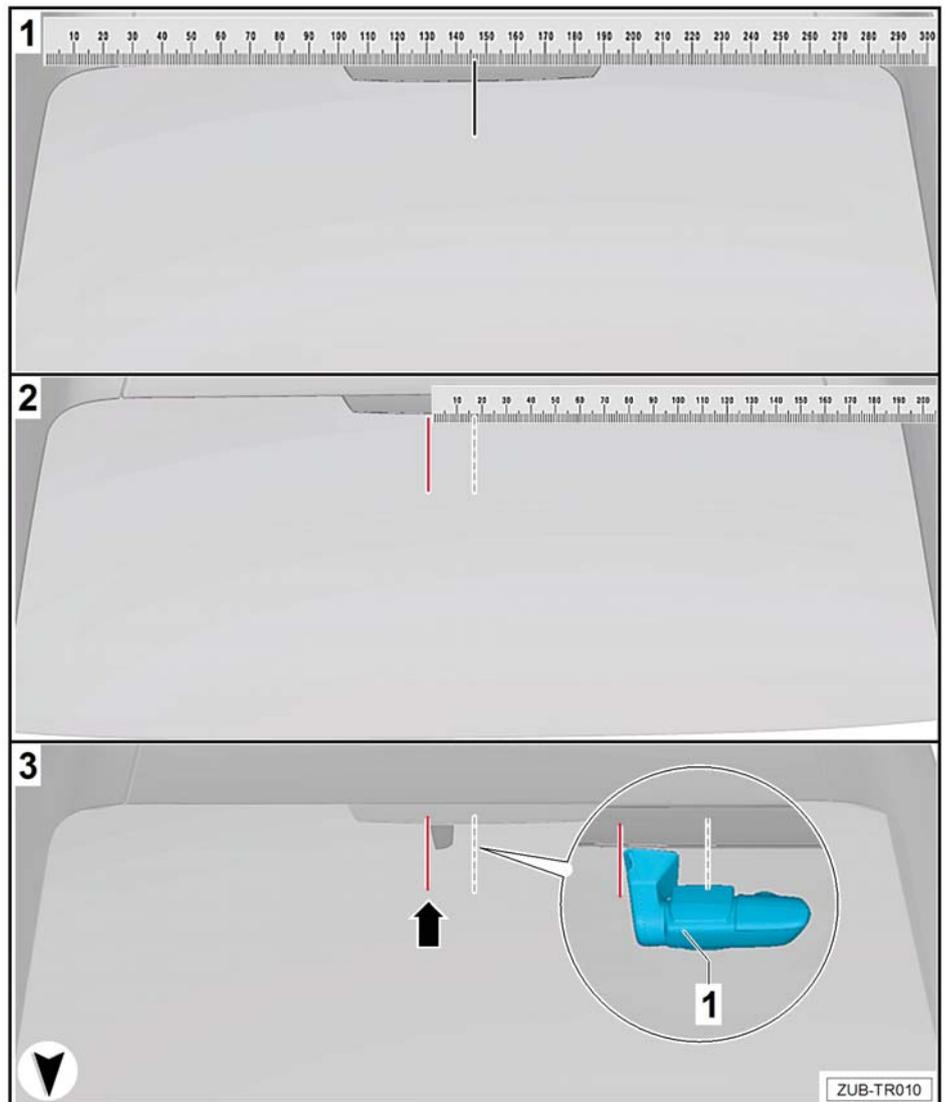
- ◆ *Install the rear camera only in the specified area of the rear window.*
- ◆ *Before fitting the rear camera, thoroughly clean this area of the rear window.*

Assembly sequence

Image 1 - From inside the vehicle, determine the centre of the rear window and mark this position.

Image 2 - From the centre, measure 50 mm to the left and mark this point.

Image 3 - Remove the protective paper from the anti-glare film. On the inside of the rear window, position the anti-glare film so that the left edge is on the marking -arrow- and the top edge is on the rear lid trim/third brake light trim. Carefully press on the anti-glare film.



Note

- ◆ Note the installation position of the anti-glare film.
- ◆ Starting in the middle, carefully press trapped air outwards using a squeegee or a cloth.
- ◆ Have a second technician outside the vehicle help determine the exact position of the camera.

- Align the rear camera -1- on the anti-glare film and stick it in place -magnifying glass in image 3-.
- Connect the supply wire for the rear camera, route the cable so that it is out of view and secure it using cable ties to prevent noises from developing.

Note

Route any excess wire back into the trim.

5.6 Concluding operations

- Connect the battery ⇒ Electrical system; Rep. gr. 27; Battery; Disconnecting and connecting the battery

If the battery is being reconnected, the following steps must be taken:

- ◆ Clear the fault memory
- ◆ Activate the one-touch opening and closing of the electric windows ⇒ operating instructions.



- ◆ Synchronise secondary and additional keys to ensure the remote control functions correctly. To do this, insert the key into the ignition lock, switch the ignition on and off again and then remove the key.

 **Note**

After reconnecting the power supply, the ESP warning light can only extinguish after a few metres have been driven.

- Perform a function test for the camera ⇒ UTR operating instructions

QK1+8G1/8G4/8N7

roof edge

QK0+8G1/8G4/8N7

roof edge

QK1+8G0/8N2/8N6

roof edge

QK0+8G0/8N2/8N6

roof edge

mid windscreen

mid windscreen

Audi A6 - AU571/572

Check dimensional change!

Nominal size: 10cm

STR

Note:

When printing this template don't make any format adaption!

Audi A7 - AU573

QK0+8G1/8N7

roof edge

QK1+8G1/8N7

roof edge

QK0+8G0/8G4/8N2/8N6 und QK1+8G0/8G4/8N2/8N6

roof edge

mid windscreen

mid windscreen

STR

Note:

When printing this template don't make any format adaption!

Check dimensional change!

Nominal size: 10cm

Installation instructions

Audi Universal Traffic Recorder

Audi A6 (4K0) Saloon 2018 ►

Audi A6 (4KA) Avant 2018 ►

Audi A7 (4KF) Sportback 2018 ►

4G0.063.511.B

For scope of delivery

4G0.063.511.A

4G0.063.511.F

4G0.063.511.G

4G0.063.511.H

Audi Genuine Accessories

Edition 01



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1 General notes

Please read these instructions carefully and note the Warning, Caution and Note descriptions before installing the Audi Universal Traffic Recorder.



WARNING

Text with this symbol contains information concerning your safety and indicates potential accident and injury risks.



Caution

Text with this symbol indicates the risk of damage to your vehicle.



Note

Text with this symbol contains additional information.



Note

- ◆ *The Audi Universal Traffic Recorder must be installed by a qualified workshop. Special tools and supplementary vehicle-specific literature will be needed to perform the installation. Improper installation can cause damage to the vehicle or to the Audi Universal Traffic Recorder.*
- ◆ *The work to be performed on the vehicle, as detailed in these fitting instructions, may change as a result of measures to upgrade models. Consequently, modifications to connectors, wire colours or even the fitting location, for instance, should not be ruled out. For this reason, make sure that you always refer to the most current wiring diagram and/or the current repair manuals for the vehicle.*
- ◆ *We reserve the right to make technical changes.*

Audi AG shall not accept responsibility in the event of failure to comply with these installation instructions.



2 Important customer information

Share the following information with the customer:



WARNING

After installing the rear camera in the Audi A7 Sportback, the sun blind (PR no.: 3Y6) can be adjusted only with the rear lid open – risk of collision!

Audi AG shall not accept responsibility in the event of failure to comply with this information.



3 Safety notes

3.1 General safety notes

 **WARNING**

Please read these installation instructions carefully before starting installation. Non-compliance with these installation instructions and safety notes will compromise your safety and that of third parties.

 **WARNING**

All mechanical and electrical connections must be checked to make sure that they are positioned and installed correctly.

 **WARNING**

Repairs or the replacement of parts must only be performed by a qualified workshop. It is recommended that genuine spare parts available from your Audi partner are used.

 **WARNING**

The Audi Universal Traffic Recorder has no internal voltage source and is dependent on the on-board supply.



4 Repair instructions

4.1 Contact corrosion

Contact corrosion can occur when unsuitable connecting elements (screws, nuts, washers) are used.

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

Additionally, rubber or plastic parts and adhesives are made of materials that are not electrically conductive.

If you are in any doubt about the suitability of parts, use new parts as a general rule ⇒ Electronic parts catalogue.

Please note:

- ◆ We recommend using only genuine spare parts; these parts have been tested and are compatible with aluminium.
- ◆ We recommend using Audi Genuine Accessories.
- ◆ Damage caused by contact corrosion is not covered by the warranty.

4.2 Routing and securing lines



WARNING

Observe the safety instructions for pyrotechnic components (see repair group 69).

During installation, ensure that the airbag does not become trapped. Route the retrofit wiring harness behind the airbag and secure accordingly. The airbag must be able to function under all circumstances.

- ◆ To avoid damage to wires in the interior due to the limited space available, make sure that there is adequate clearance in relation to all moving components.



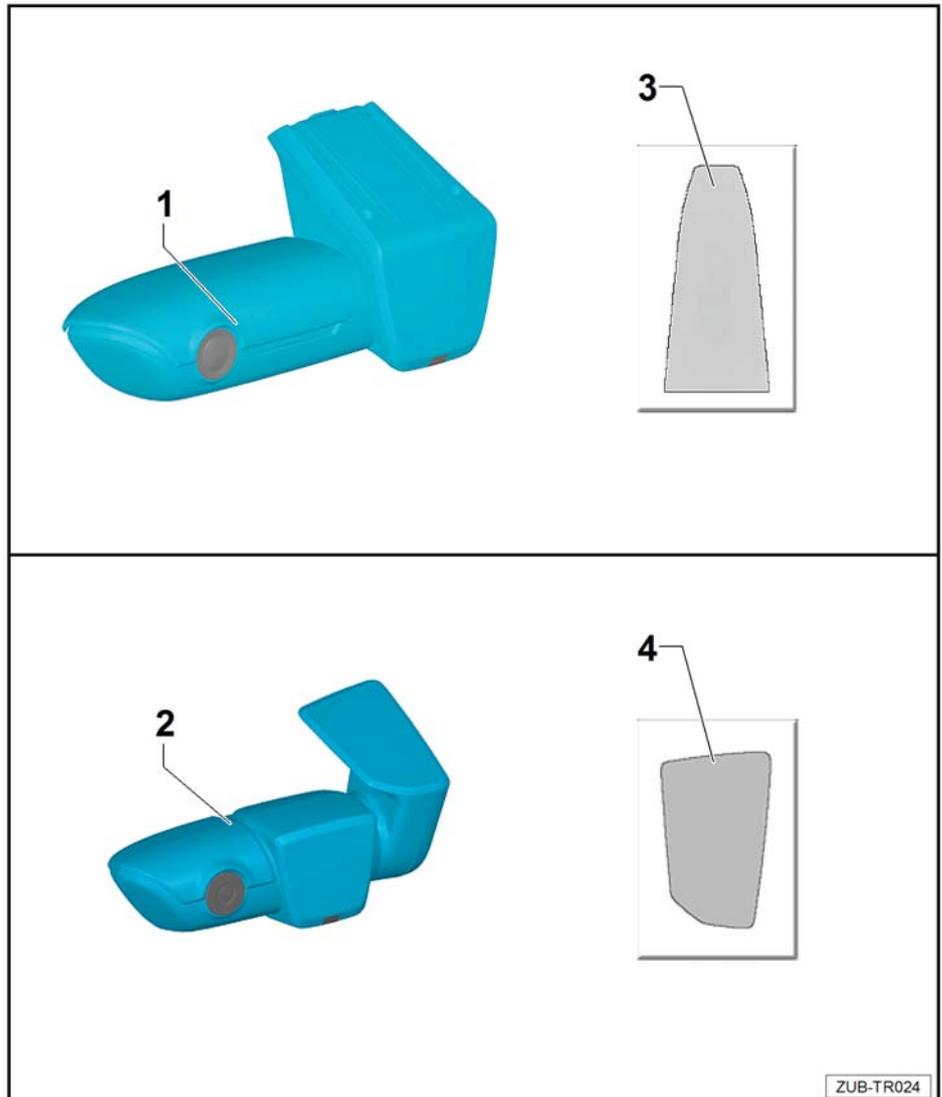
5 Overview of components, scope of delivery and overview of fitting location

⚠ WARNING

In the Audi A6 Saloon, fitting the rear camera on vehicles with an electric side sun blind (PR no.: 3Y5) is not possible – risk of collision!

5.1 Overview of components

- 1 - Front camera
- 2 - Rear camera
- 3 - Anti-glare film for front camera
- 4 - Anti-glare film for rear camera





5.2 Scope of delivery

4G0.063.511.A

Quantity	Component
1	Front camera
1	Rear camera
1	Camera wiring harness with coupling point
10	Cable tie N.020.904.5
3	Foam grommet 811.971.790
1	Anti-glare film for front camera
1	Anti-glare film for rear camera
1	Operating instructions

Not included in the scope of delivery, must be ordered separately: UTR wiring harness 4G0.063.511.B

Quantity	Component
1	UTR wiring harness for the on-board supply
1	Connector housing 1J0.972.751
2	Connector housing 893.971.632

Not included in the scope of delivery, must be ordered separately:

Quantity	Component
1	5-A mini fuse
1	10-A mini fuse

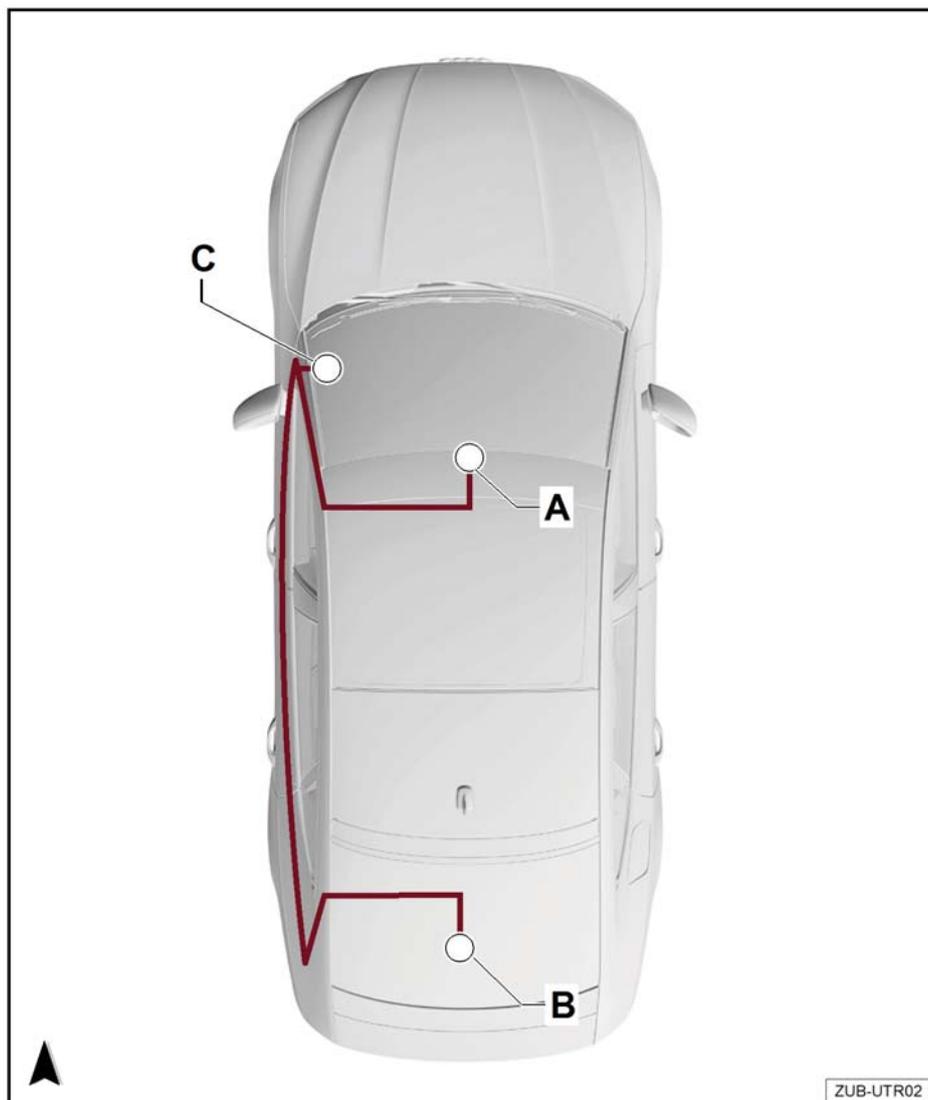


5.3 Overview of fitting location

A - Audi Universal Traffic Recorder with front camera

B - Rear camera

C - Connection to on-board supply



EN



6 Sequence of operations

6.1 Customer information

6.2 Preparations

ELSA reference

- Disconnecting the battery⇒Electrical system; Rep. gr. 27; Battery; Disconnecting and connecting the battery
- Remove the roof module⇒Interior equipment; Rep. gr. 68; Storage compartments, covers; Removing and installing the roof module
- Remove the driver side sun visor⇒Interior equipment; Rep. gr. 68; Equipment; Removing and installing the sun visor
- Remove the A-pillar trim on the driver side⇒General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the A-pillar trim
- Remove the footwell trim on the driver side⇒General body repairs, interior; Rep. gr. 68; Interior trims; Removing and installing the footwell trim
- Remove the front seat on the driver side⇒General body repairs, interior; Rep. gr. 72; Front seat; Removing and installing the front seat on the driver side.
- Remove the foot rest⇒General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the foot rest
- Remove fuse carrier -STB-⇒Electrical system; Rep. gr. 97; Relay carrier, fuse carrier, electrical boxes; Removing and installing the fuse carrier
- Remove fuse carrier -STE-⇒Electrical system; Rep. gr. 97; Relay carrier, fuse carrier, electrical boxes; Removing and installing the fuse carrier
- Remove the sill panel trim on the front driver side⇒General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the sill panel trim
- Remove the B-pillar trim on the driver side⇒General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the B-pillar trim
- Remove the sill panel trim on the rear driver side⇒General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the sill panel trim
- Remove the C-pillar trim on the driver side⇒General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the C-pillar trim
- Remove the left-hand luggage compartment side trim ⇒General body repairs, interior; Rep. gr. 70; Luggage compartment trims; Removing and installing the luggage compartment side trim



Also applies to the A6 Avant

- Remove the rear lid trim ⇒ General body repairs, interior; Rep. gr. 70; Luggage compartment trim; Removing and installing the rear lid trim

6.3 Connecting the UTR wiring harness – left-hand drive vehicle



WARNING

Observe the safety instructions for pyrotechnic components (see repair group 69).

Do not connect the head and neck airbag when installing the D-pillar trim. Route the UTR wiring harness behind the airbag and secure accordingly. The airbag must be able to function under all circumstances.



Note

- ◆ *Make sure that all routed wires are long enough to reach the installation position.*
- ◆ *Make sure that the wire for the mounting base of the front camera is long enough for it to be attached at the installation position. (remove the template)*
- ◆ *Remove any trim parts to determine the correct wire length.*

Routing the camera wiring harness

- Loosen the headliner slightly across the entire area of the windscreen so that the wiring harnesses can be fed through more easily.
- Carefully route the camera wiring harness through the roof module opening and further on between the windscreen and the headliner towards the front in the direction of the front camera installation position and leave it hanging there.
- Secure the camera wiring harness coupling point with a foam grommet to prevent noises from developing.
- Route the rear camera wire starting from the connector point along the standard wiring harness into the luggage compartment, then over the C-pillar to the position of the rear camera.

Routing the UTR wiring harness for the on-board supply

- Using the pull wire and working with the connector end, route the entire wiring harness for the on-board supply from the bottom to the top, past the dash panel on the driver side and up to the connector point in the roof module. Route the connection cable (red and green) from the dash panel to the left and down into the footwell through to the fuse carrier -ST B- -ST E- and secure to the standard wiring harness using cable ties.
- Connect the UTR wiring harness for the on-board supply to the camera wiring harness coupling point.



- If necessary, fasten the individual wires in the area of the headliner together using fabric tape to prevent noises from developing.
- Unclip fuse carrier -ST B- from the fuse holder on the driver side.
- Unclip fuse carrier -ST E- from the fuse holder on the driver side.

i Note

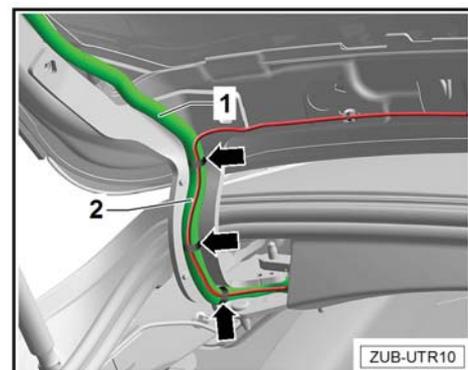
- ◆ *Make sure that the wire is long enough to connect the rear camera.*
- ◆ *Remove any trim parts to determine the correct wire length.*

Applies only to the Audi A6 Avant with manual and automatically opening rear lid

- Route the wire for the rear camera -2- along the standard wiring harness -1- and secure using cable ties to prevent sliding -arrows-.

i Note

Route the wire for the rear camera onto the standard wiring harness as shown in the image to avoid damage.



Connecting terminal 30 (red) of the UTR wiring harness for the on-board supply to fuse carrier -ST B-

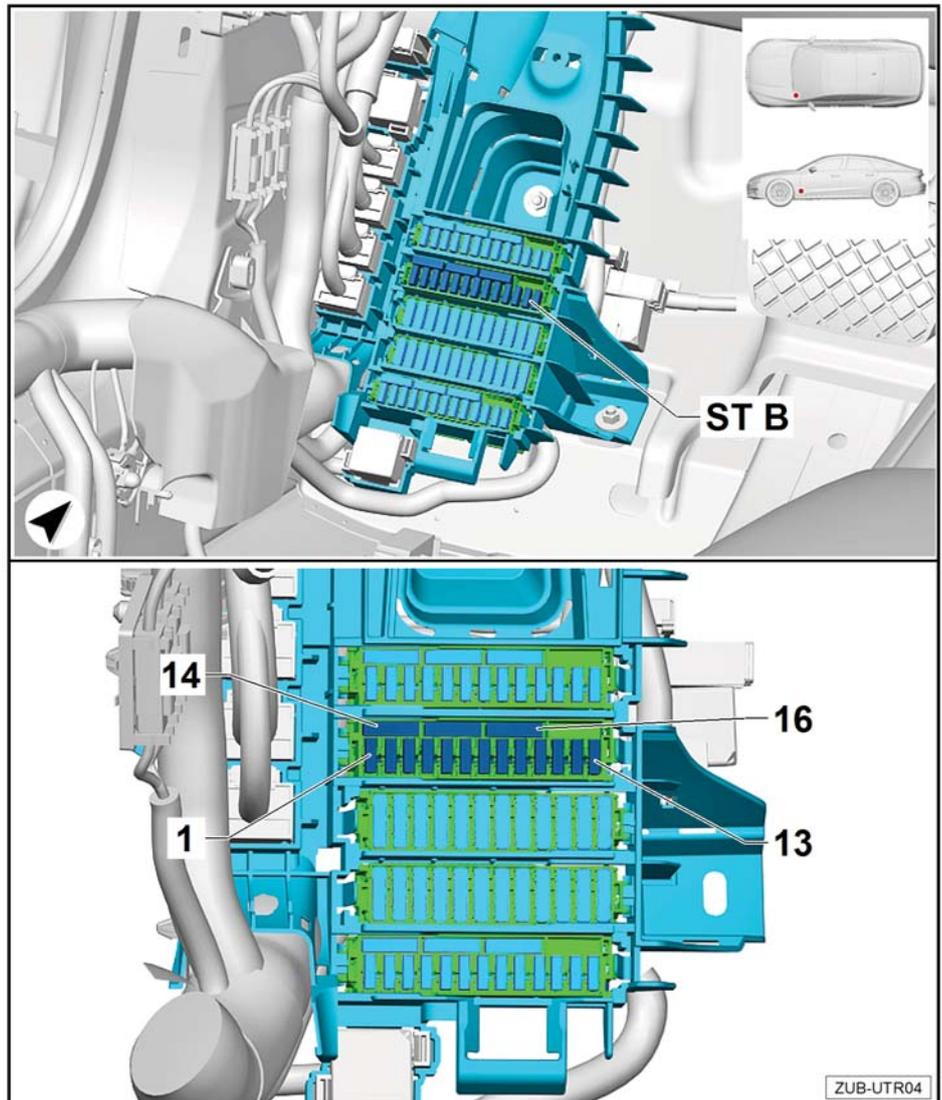
WARNING

The UTR wiring harness can be used for several vehicles. To connect the wiring harness in the Audi A6/A7, use the red wire with the small pin and the plug-in connector with the small contact. Insert the remaining red wire with the large pin into the supplied connector housing (1J0.972.751). Now connect the connector housing with the remaining plug-in connector (with the large contact). Secure the loop and connector formed as a result of this process to prevent noises from developing.

- Unpin the standard wiring harness on fuse carrier -ST B- from the following chamber:

- ◆ Chamber F4

- Pin the unpinned contact -F4- into the connector housing supplied (893.971.632) and insert into the corresponding connector on the UTR wiring harness.
- Pin the free wire (red) on the UTR wiring harness into free chamber -F4-.
- Insert the 5 A mini fuse.



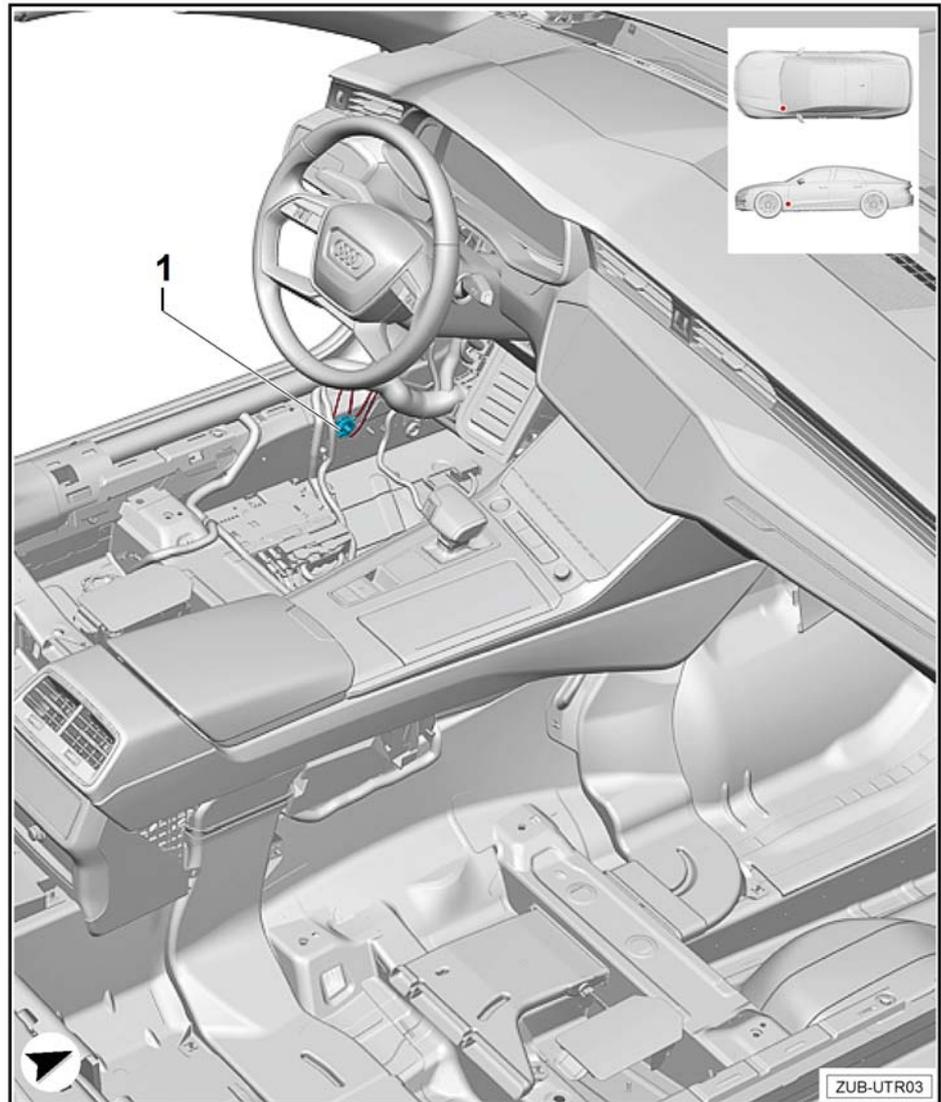


- Attach the earth wire (black) on the UTR wiring harness to the earth point -1- in the footwell on the left on the driver side.

i Note

The earth point should be selected based on the cable length.

- If all connection work has been completed, fix the coupling point of the roof module in place so that no noise is generated and nothing is disturbed during the installation of the roof module.



6.4 Connecting the UTR wiring harness – right-hand drive vehicles

⚠ WARNING

Observe the safety instructions for pyrotechnic components (see repair group 69).

Do not connect the head and neck airbag when installing the D-pillar trim. Route the UTR wiring harness behind the airbag and secure accordingly. The airbag must be able to function under all circumstances.



i Note

- ◆ *Make sure that all routed wires are long enough to reach the installation position.*
- ◆ *Make sure that the wire for the mounting base of the front camera is long enough for it to be attached at the installation position.*
- ◆ *Remove any trim parts or templates to determine the correct wire length.*

Routing the camera wiring harness

- Loosen the headliner slightly across the entire area of the windscreen so that the camera wiring harness can be fed through more easily.
- Carefully route the camera wiring harness through the roof module opening and further on between the windscreen and the headliner towards the front in the direction of the front camera installation position and leave it hanging there.
- Secure the camera wiring harness coupling point with a foam grommet to prevent noises from developing.
- Route the rear camera wire starting from the connector point along the standard wiring harness into the luggage compartment, then over the C-pillar and D-pillar to the position of the rear camera.
- Use the pull wire between the dash panel and the A-pillar.

Routing the UTR wiring harness for the on-board supply

- Using the pull wire and working with the connector end, route the entire wiring harness for the on-board supply from the bottom to the top, past the dash panel on the driver side and up to the connector point in the roof module. Route the connection cable (red and green) from the dash panel to the left and down into the footwell through to the fuse carrier -ST B- -ST E- and secure to the standard wiring harness using cable ties.
- Connect the UTR wiring harness for the on-board supply to the camera wiring harness coupling point.
- If necessary, fasten the individual wires in the area of the headliner together using fabric tape to prevent noises from developing.
- Unclip fuse carrier -ST B- from the fuse holder on the driver side.
- Unclip fuse carrier -ST E- from the fuse holder on the driver side.

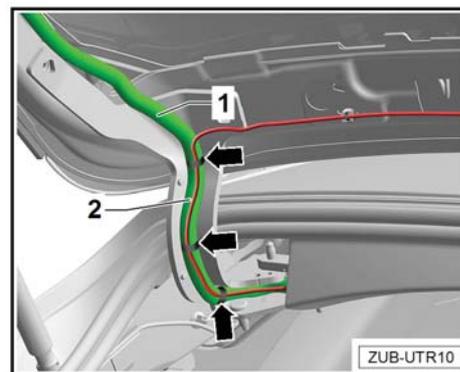


Applies only to the Audi A6 Avant with manual and automatically opening rear lid

- Route the wire for the rear camera -2- along the standard wiring harness -1- and secure using cable ties to prevent sliding -arrows-.

Note

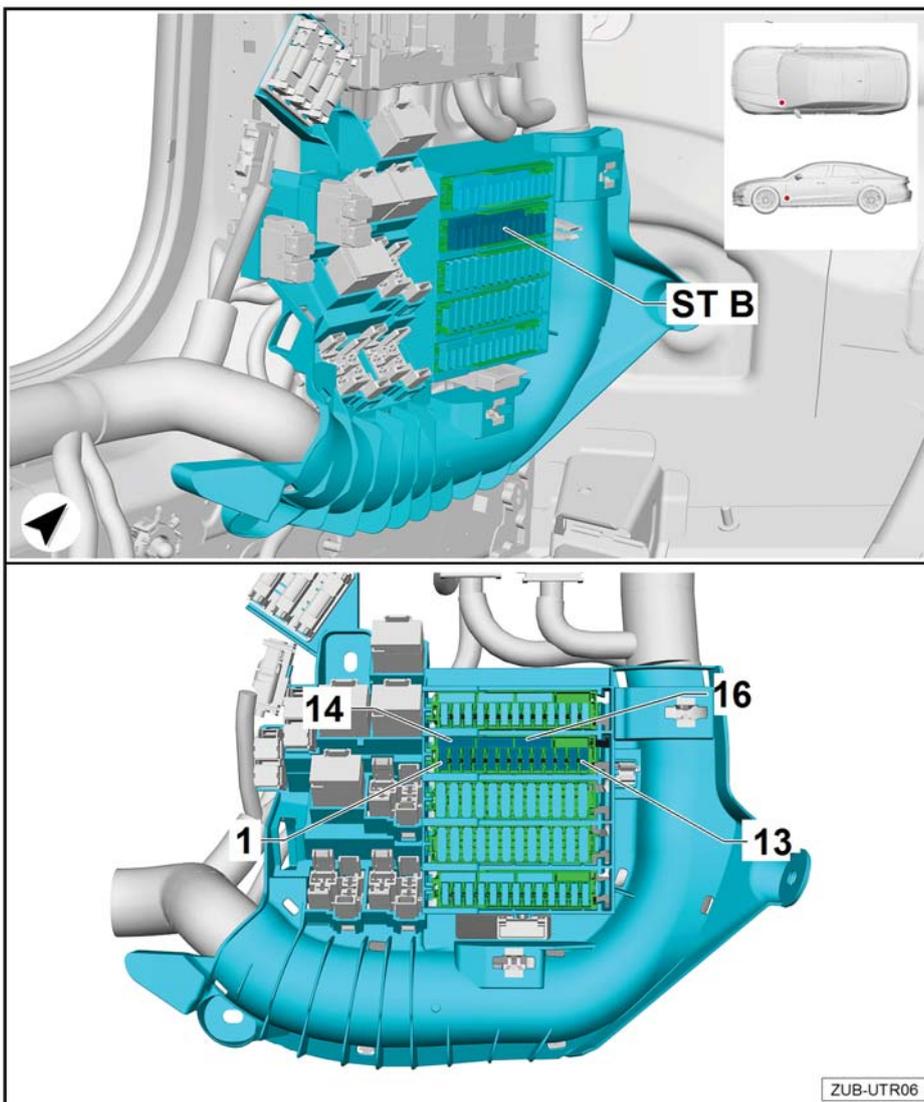
Route the wire for the rear camera onto the standard wiring harness as shown in the image to avoid damage.



Connecting terminal 30 (red) of the UTR wiring harness for the on-board supply to fuse carrier -ST B-

WARNING

The UTR wiring harness can be used for several vehicles. To connect the wiring harness in the Audi A6/A7, use the red wire with the small pin and the plug-in connector with the small contact. Insert the remaining red wire with the large pin into the supplied connector housing (1J0.972.751). Now connect the connector housing with the remaining plug-in connector (with the large contact). Secure the loop and connector formed as a result of this process to prevent noises from developing.



- Unpin the standard wiring harness on fuse carrier -ST B- from the following chamber:
 - ◆ Chamber F4
- Pin the unpinned contact -F4- into the connector housing supplied (893.971.632) and insert into the corresponding connector on the UTR wiring harness.
- Pin the free wire (red) on the UTR wiring harness into free chamber -F4-.
- Insert the 5 A mini fuse.

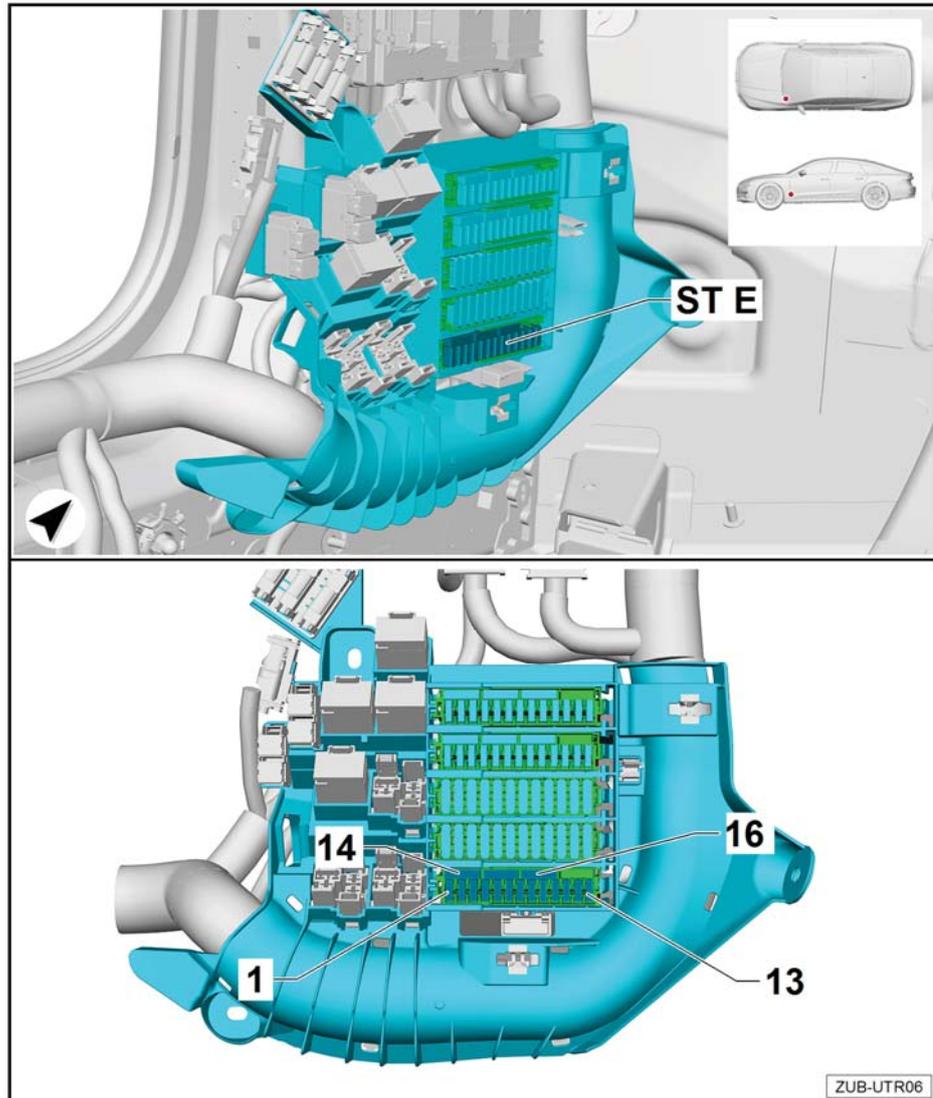


Connecting terminal 15 (green) of the UTR wiring harness for the on-board supply to fuse carrier -ST E-

⚠ WARNING

For vehicles in which chamber F6 is not occupied by a pin, the free wire (green) must be pinned in directly. (10-A mini fuse) Fix the remaining plug-in connector on the UTR wiring harness and secure to prevent noises from developing.

- Unpin the standard wiring harness on fuse carrier -ST E- from the following chamber:
- ◆ Chamber F6
- Pin the unpinned contact -F6- into the connector housing supplied (893.971.632) and insert into the corresponding connector on the UTR wiring harness.
- Pin the free wire (green) on the UTR wiring harness into the free chamber -F6-.
- Insert the 10 A mini fuse.



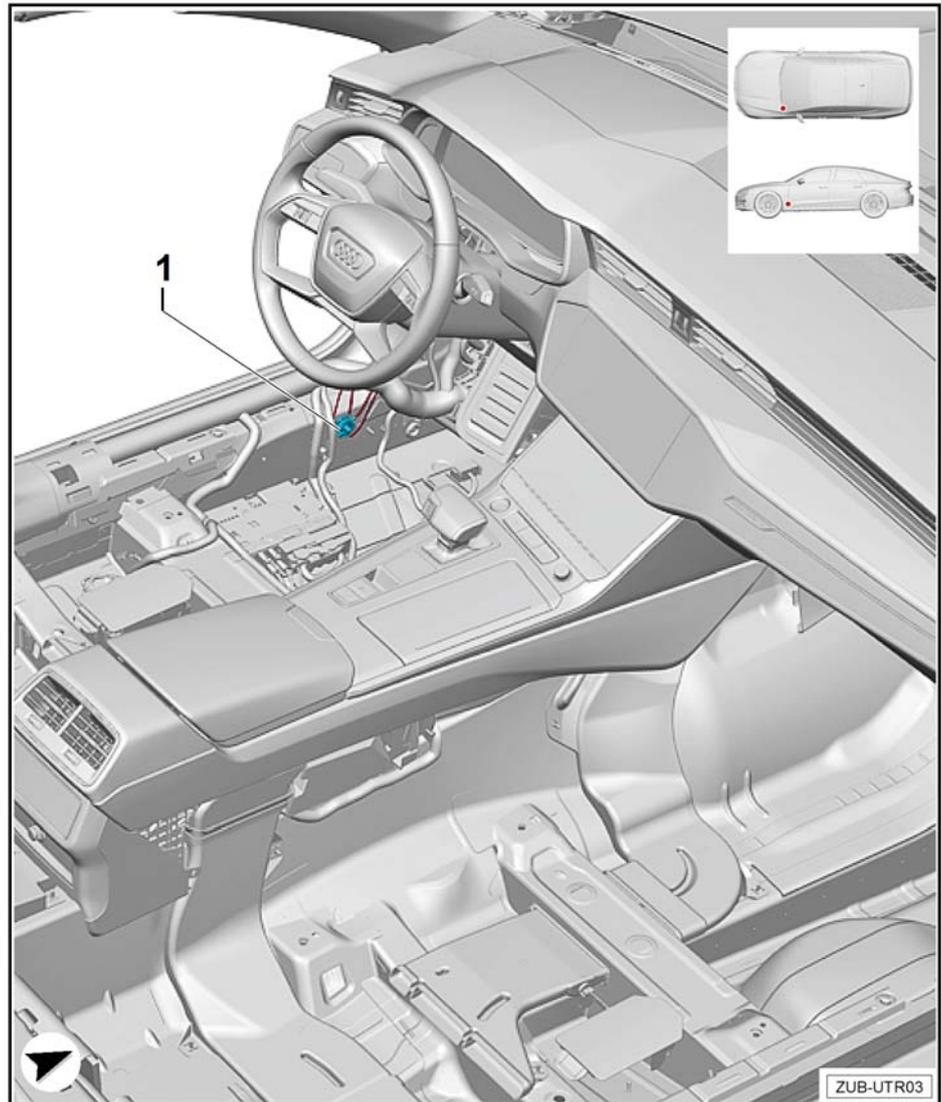


- Attach the earth wire (black) on the UTR wiring harness to the earth point -1- in the footwell on the left on the driver side.

Note

The earth point should be selected based on the cable length.

- If all connection work has been completed, fix the coupling point of the roof module in place so that no noise is generated and nothing is disturbed during the installation of the roof module.



6.5 Assembling the vehicle

- Reassemble the vehicle by following these steps in reverse order.

6.6 Installing the front camera

WARNING

The appendix of the fitting instructions contains a template for positioning the anti-glare film supplied for the front camera.

Print out the template.

The template features a positioning mark. Using a ruler, measure the positioning mark. This must be 10 cm.

If the dimension is too small or large, the printer options must be changed from "Fit" to "Actual size".



i Note

- ◆ Install the front camera only in the specified area of the windscreen.
- ◆ Before fitting the front camera, thoroughly clean the windscreen using workshop tools.
- ◆ The windscreen must be free from dust and grease.

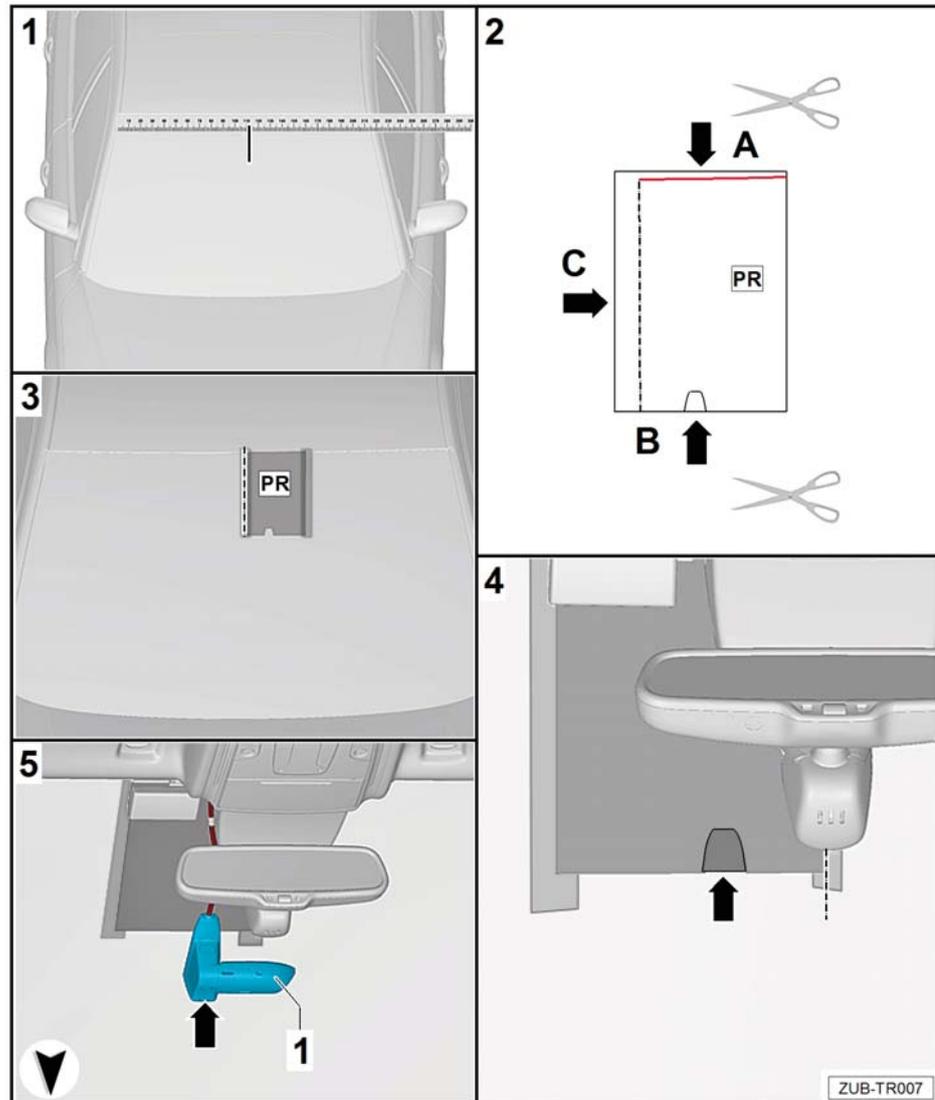
Assembly sequence

Image 1 - From outside the vehicle, determine the centre of the windscreen and mark this position.

Image 2 - After selecting the cutting edge, cut the template ⇒ “Selecting the correct cutting edge on the template” on page 19 along the dotted line -arrow A-. Also cut out the section for the middle of the window -arrow C- and for the camera base -arrow B-.

Image 3 - Position the template in the centre and on the upper edge of the windscreen and fix it in place using adhesive tape. The writing on the template must be the right way up facing outwards. Remove the protective paper from the anti-glare film.

Image 4 - Position the anti-glare film -arrow- on the inside of the windscreen using the template and carefully press it on.



i Note

Starting in the middle, carefully press trapped air outwards using a squeegee or a cloth.

Image 5 - Clip the front camera -1- into the mounting base, position this on the inside of the windscreen on the anti-glare film -arrow- and carefully press it on.

i Note

Assistance from a second technician is required to position the camera with precision.

6.7 Selecting the correct cutting edge on the template

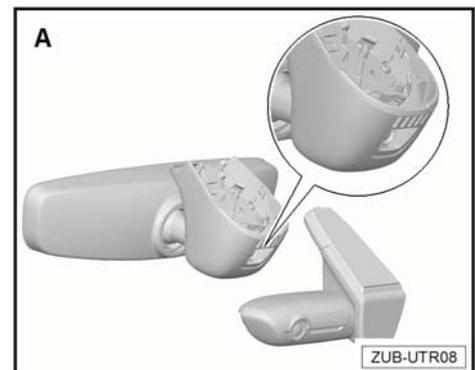
WARNING

The cutting edges defined via the PR numbers (equipment variant) have been tested via a field of vision inspection and must be complied with.

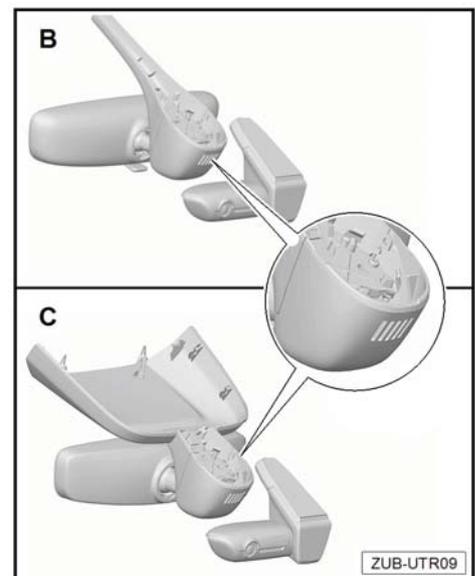
Note

Check the respective equipment variant on the mirror base and then select the cutting edge on the template.

– Equipment variant for cutting edge -A-.



– Equipment variant for cutting edge -B or C-.



6.8 Installing the rear camera

Applies only to the Audi A6 Saloon

WARNING

In the Audi A6 Saloon, fitting the rear camera on vehicles with an electric side sun blind (PR no.: 3Y5) is not possible – risk of collision!

Applies only to the Audi A7 Sportback



WARNING

After installing the rear camera in the Audi A7 Sportback, the sun blind (PR no.: 3Y6) can be adjusted only with the rear lid open – risk of collision!



Note

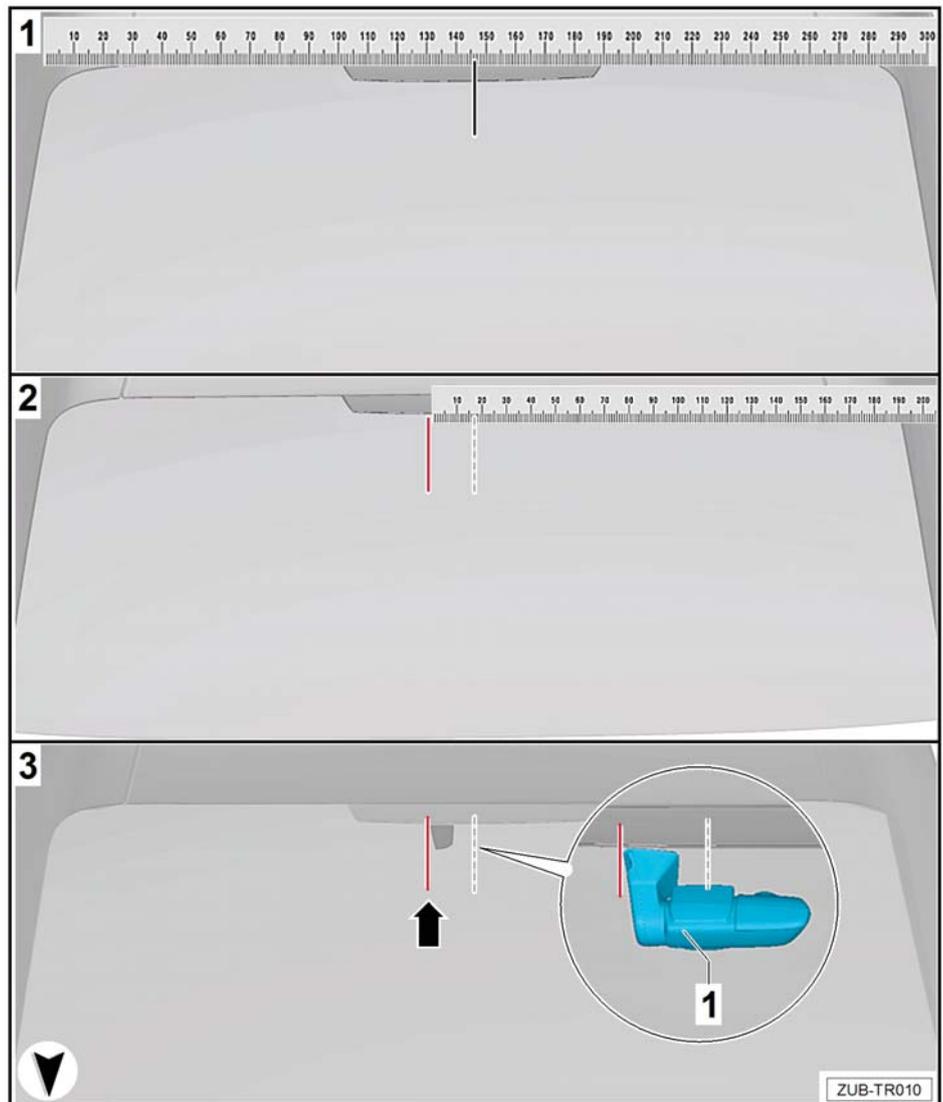
- ◆ *Install the rear camera only in the specified area of the rear window.*
- ◆ *Before fitting the rear camera, thoroughly clean this area of the rear window.*

Assembly sequence

Image 1 - From inside the vehicle, determine the centre of the rear window and mark this position.

Image 2 - From the centre, measure 50 mm to the left and mark this point.

Image 3 - Remove the protective paper from the anti-glare film. On the inside of the rear window, position the anti-glare film so that the left edge is on the marking -arrow- and the top edge is on the rear lid trim/third brake light trim. Carefully press on the anti-glare film.



Note

- ◆ Note the installation position of the anti-glare film.
- ◆ Starting in the middle, carefully press trapped air outwards using a squeegee or a cloth.
- ◆ Have a second technician outside the vehicle help determine the exact position of the camera.

- Align the rear camera -1- on the anti-glare film and stick it in place -magnifying glass in image 3-.
- Connect the supply wire for the rear camera, route the cable so that it is out of view and secure it using cable ties to prevent noises from developing.

Note

Route any excess wire back into the trim.

6.9 Concluding operations

6.9.1 Concluding operations

WARNING

For instructions on handling the Audi Universal Traffic Recorder, refer to the operating instructions provided!

- Connect the battery ⇒ Electrical system; Rep. gr. 27; Battery; Disconnecting and connecting the battery



If the battery is being reconnected, the following steps must be taken:

- ◆ Clear the fault memory.
- ◆ Activate the one-touch opening and closing of the electric windows ⇒ operating instructions.
- ◆ Synchronise the secondary or additional keys ⇒ operating instructions

 **Note**

After reconnecting the power supply, the ESP warning light can only extinguish after a few metres have been driven.

- Perform a function test for the camera ⇒ UTR operating instructions

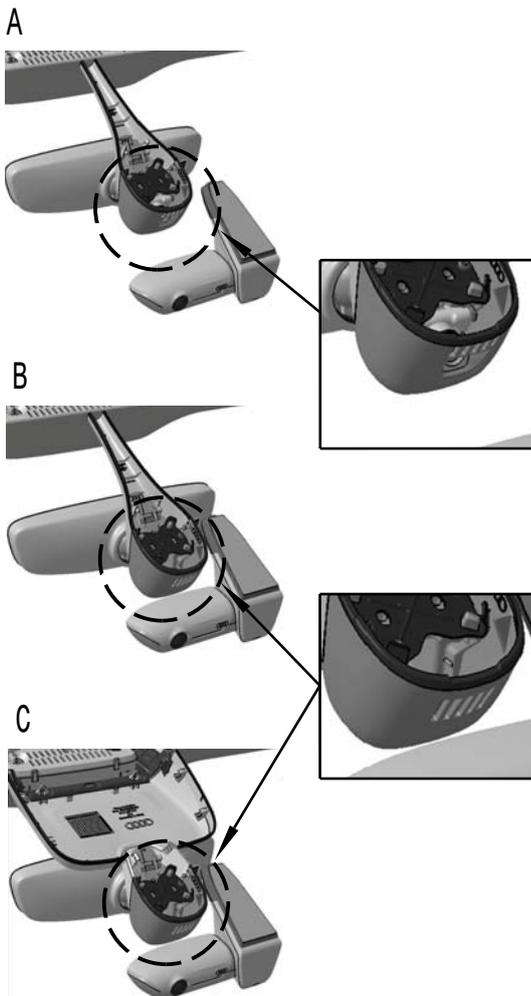
Audi A6 - AU581/2

A roof edge

A

B/C roof edge

B/C



Check dimensional change!

Nominal size: 10cm

mid windscreen

STR

Note:

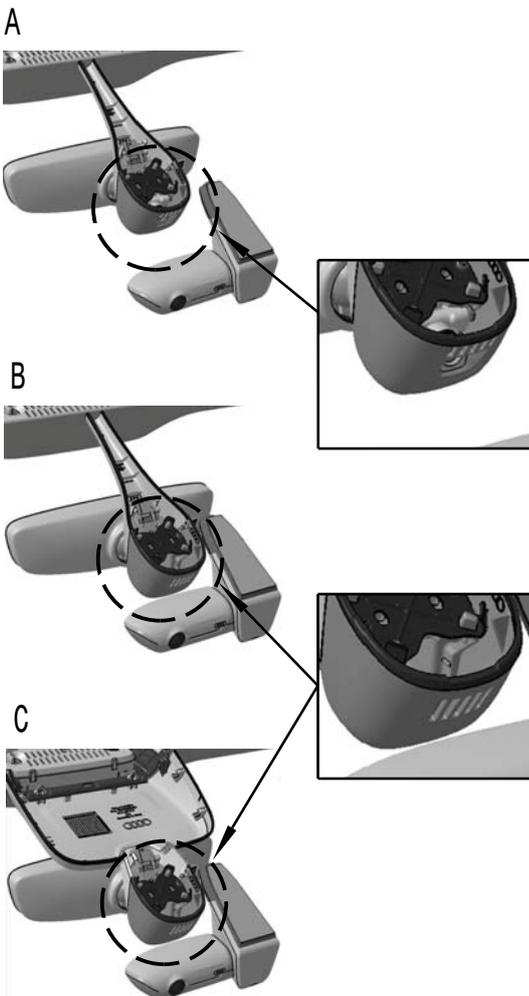
When printing this template
don't make any format adaption!

Audi A7 - AU583

roof edge

roof edge

roof edge



Check dimensional change!
Nominal size: 10cm

mid windscreen

STR

Note:
When printing this template
don't make any format adaption!