

Installation instructions

Audi Universal Traffic Recorder

Audi Q4 e-tron 2022 ►

Audi Q4 SB e-tron 2022 ►

4G0.063.511.AD

for scope of delivery

4G0.063.511, 4G0.063.511.E and 4K0.063.511

Audi Genuine Accessories

Edition 01



Contents

| | | |
|----------|---|----------|
| 1 | General notes | 1 |
| 2 | Safety instructions | 2 |
| 2.1 | Foreword | 2 |
| 2.2 | General safety notes | 2 |
| 3 | Repair instructions | 3 |
| 3.1 | Contact corrosion | 3 |
| 3.2 | Routing and securing lines | 3 |
| 4 | Overview of components, scope of delivery and overview of fitting location | 4 |
| 4.1 | Overview of components | 4 |
| 4.2 | Scope of delivery | 4 |
| 4.3 | Overview of fitting location | 6 |
| 5 | Sequence of operations | 7 |
| 5.1 | Preparatory work (left-hand drive vehicle) | 7 |
| 5.2 | Preparatory work (right-hand drive vehicle) | 7 |
| 5.3 | Connecting the UTR wiring harness – left-hand drive vehicle | 7 |
| 5.4 | Connecting the UTR wiring harness – right-hand drive vehicles | 11 |
| 5.5 | Assembling the vehicle | 15 |
| 5.6 | Installing the front camera | 15 |
| 5.7 | Concluding operations | 17 |



1 General notes

Please read these instructions carefully and note the Danger, Warning, Caution, Note and TIPP descriptions before the "Audi Universal Traffic Recorder" is assembled.

DANGER

Text with this symbol indicates dangerous situations where a failure to comply could result in death or serious injuries.

WARNING

Text with this symbol indicates dangerous situations where a failure to comply could result in death or serious injuries.

CAUTION

Text with this symbol indicates dangerous situations where a failure to comply could result in minor or moderate injuries.

NOTICE

Text with this symbol indicates situations where a failure to comply could result in damage to the vehicle.

TIP:

Text with this symbol contains important additional information.

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



2 Safety instructions

2.1 Foreword

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.

2.2 General safety notes

NOTICE

Non-compliance with these installation instructions and safety notes will compromise your safety and that of third parties.

- **Please read these installation instructions carefully before starting installation.**

NOTICE

Incorrect installation may damage the Audi Universal Traffic Recorder.

- **The Audi Universal Traffic Recorder must be installed by a qualified workshop.**

TIP:

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

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.



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

CAUTION

Risk of injury due to airbag malfunction.

- Observe the safety instructions for pyrotechnic components (see repair group 69).
- Route the retrofit wiring harness behind the airbag and secure accordingly.
- During installation, ensure that the airbag does not become trapped.

TIP:

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.

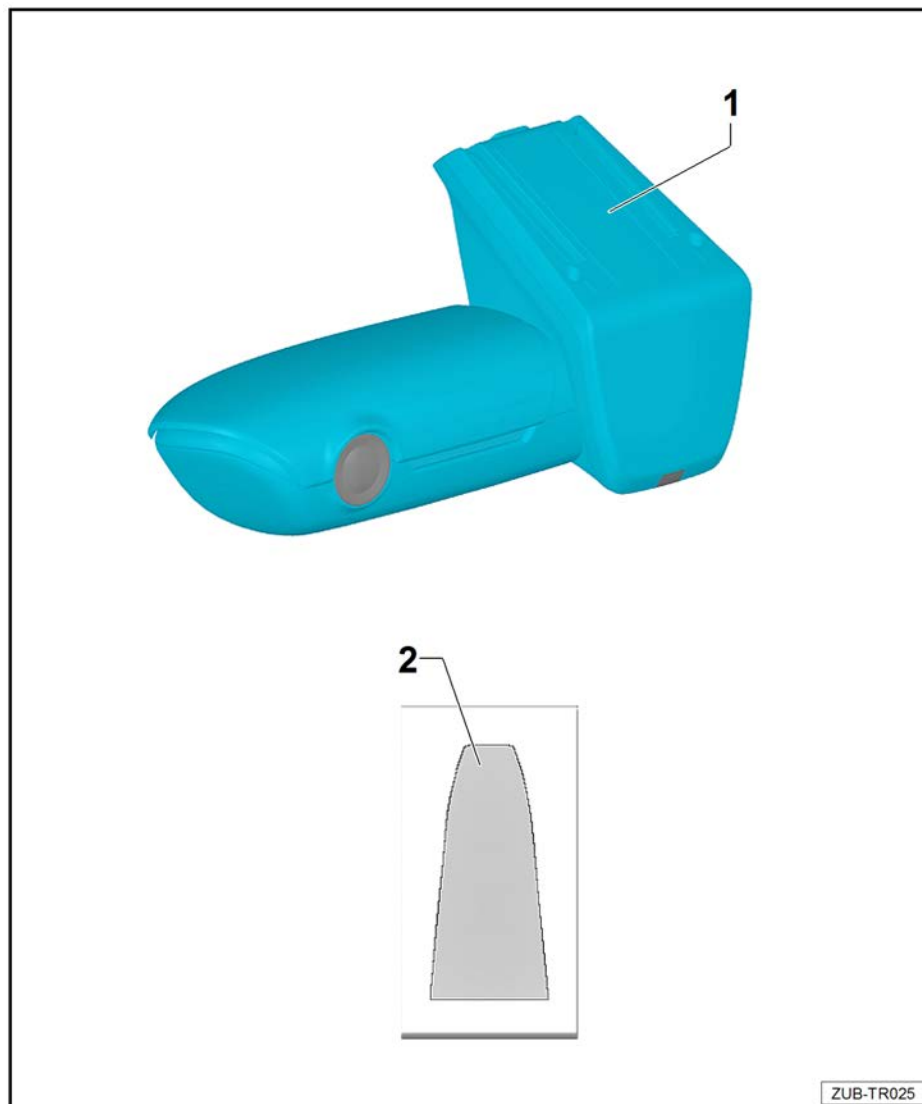


4 Overview of components, scope of delivery and overview of fitting location

4.1 Overview of components

1 - Front camera

2 - Anti-glare film



4.2 Scope of delivery

4G0.063.511, 4G0.063.511.E and 4K0.063.511

| Quantity | Component |
|----------|---|
| 1 | Front camera |
| 1 | Camera wiring harness with coupling point |
| 5 | Cable tie N.020.904.5 |
| 3 | Foam grommet 811.971.790 |
| 1 | Anti-glare film for front camera |
| 1 | Operating instructions |



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

| Quantity | Component |
|----------|--|
| 1 | UTR wiring harness for the on-board supply |
| 2 | Connector housing 8P0.973.722 |
| 1 | Connector housing 8W0.971.832.A |

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

| Quantity | Component |
|----------|-----------------|
| 2 | 7.5-A mini fuse |

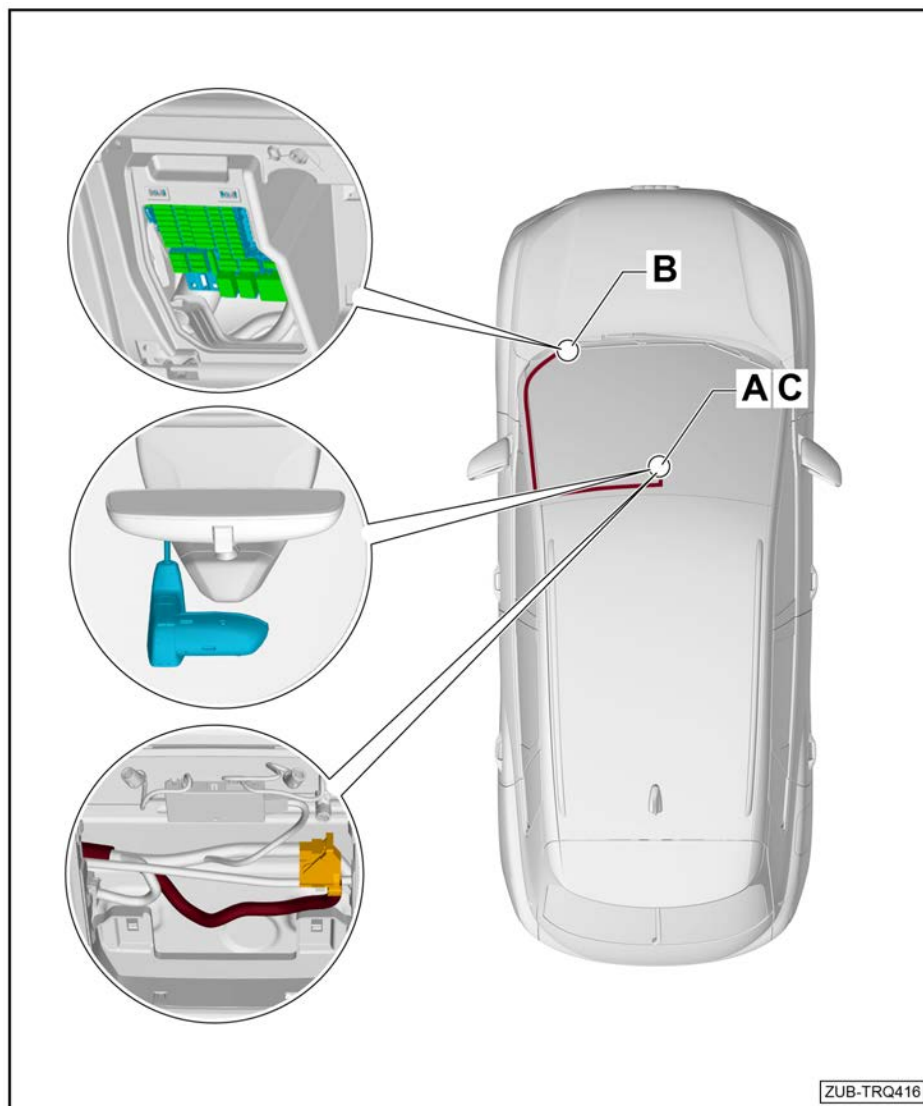


4.3 Overview of fitting location

CAUTION

This diagram shows the routing of the wiring harness. Connection for a left-hand/right-hand drive vehicle is on the same side!

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





5 Sequence of operations

5.1 Preparatory work (left-hand drive vehicle)

ELSA (Electronic Service Information System) reference

- Disconnecting the battery⇒ Electrical system; Rep. gr. 27; Battery; Disconnecting and connecting the battery
- Remove the roof module⇒ General body repairs, interior; Rep. gr. 68; Storage compartments, covers; Removing and installing the roof module
- Remove the sun visor on the driver side⇒ General body repairs, interior; 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

5.2 Preparatory work (right-hand drive vehicle)

ELSA (Electronic Service Information System) reference

- Disconnecting the battery⇒ Electrical system; Rep. gr. 27; Battery; Disconnecting and connecting the battery
- Remove the roof module⇒ General body repairs, interior; Rep. gr. 68; Storage compartments, covers; Removing and installing the roof module
- Remove the sun visor on the passenger side⇒ General body repairs, interior; Rep. gr. 68; Equipment; Removing and installing the sun visor
- 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
- Remove the footwell trim on the passenger side⇒ General body repairs, interior; Rep. gr. 68; Interior trims; Removing and installing the footwell trim

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

CAUTION

Risk of injury due to airbag malfunction.

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

TIP:

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.

NOTICE

Make sure that all routed wires are long enough to reach the installation positions.

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.
- If necessary, fasten the individual wires in the area of the headliner together using fabric tape to prevent noises from developing.
- Route the UTR wiring harness downwards from the A-pillar to the fuse holder on the left-hand side, next to the steering column.



Connecting terminal 15 (green) of the UTR wiring harness for the onboard supply to the fuse holder -1-

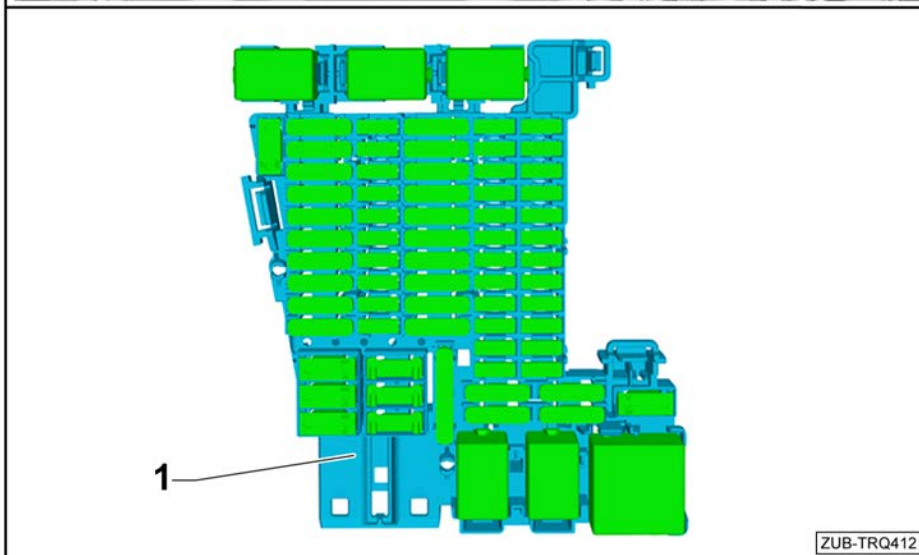
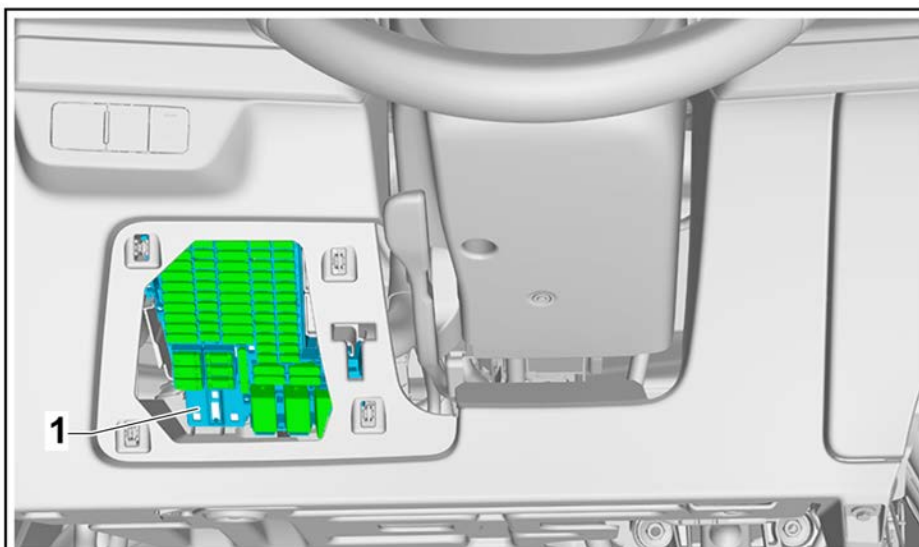
- Unpin the standard wiring harness on the fuse holder -1- from the following chamber.
- ◆ Chamber F48A
- Pin unpinned contact -F48A- into the connector housing provided (8P0.973.722) and insert into the corresponding connector on the retrofit cable harness.
- Pin the free wire (green) on the UTR wiring harness into free chamber -F48A-.
- If necessary, insert a 7.5-A mini fuse.





Connecting terminal 30 (red) of the UTR wiring harness for the onboard supply to the fuse holder -1-

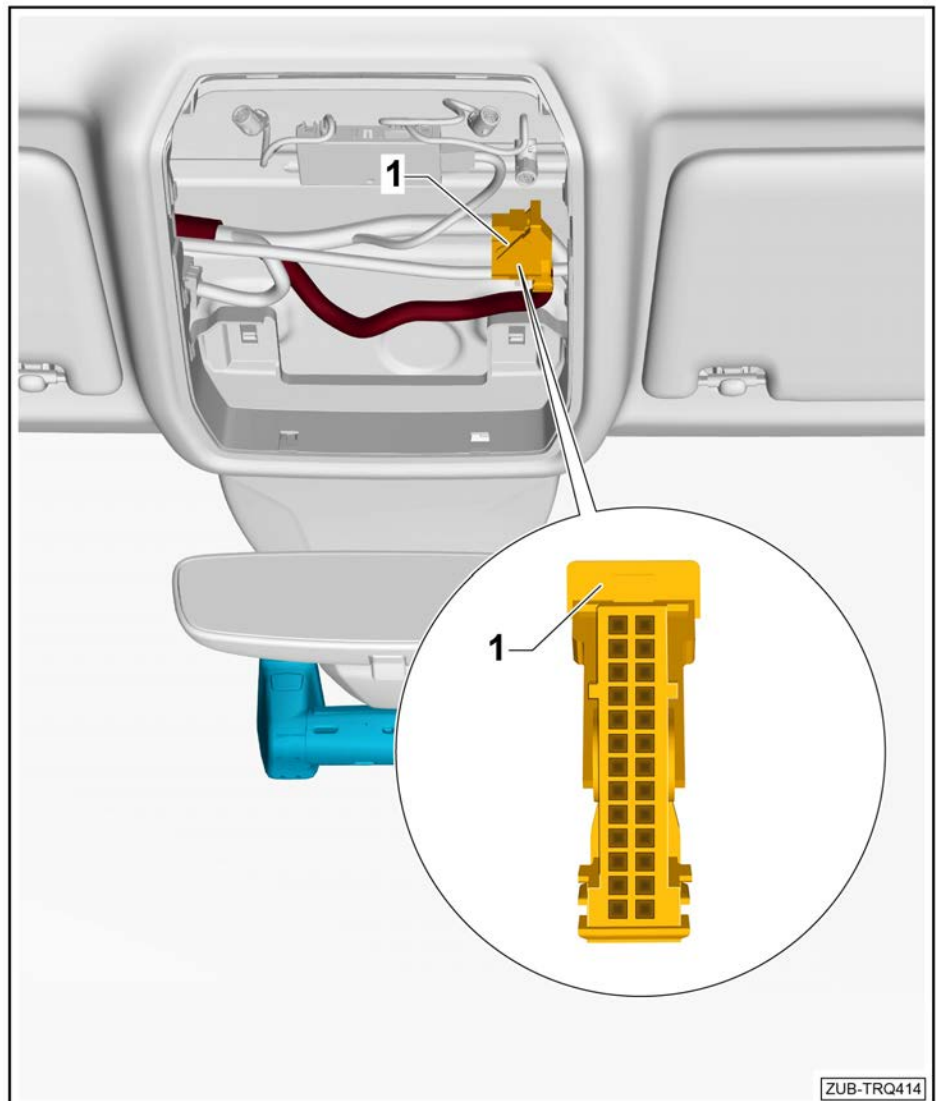
- Unpin the standard wiring harness on the fuse holder -1- from the following chamber.
- ◆ Chamber F20A
- Pin unpinned contact -F20A- into the connector housing supplied (8P0.973.722) and insert into the corresponding connector on the UTR wiring harness.
- Pin the free wire (red) on the UTR wiring harness into free chamber -F20A-.
- If necessary, insert a 7.5-A mini fuse.



ZUB-TRQ412

Connecting the UTR wiring harness earth terminal 31 (black) at the roof module connector -1-

- Unpin the standard wiring harness on the roof module connector -1- from the following chamber.
- ◆ Chamber 01
- Pin the unpinned contact -01- into the connector housing supplied (8W0.971.832.A) and insert into the corresponding connector on the UTR wiring harness.
- Pin the free wire (black) on the UTR wiring harness into the free chamber -01-.
- 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 Connecting the UTR wiring harness – right-hand drive vehicles

⚠ CAUTION

Risk of injury due to airbag malfunction.

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

TIP:

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.



! NOTICE

Make sure that all routed wires are long enough to reach the installation positions.

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.

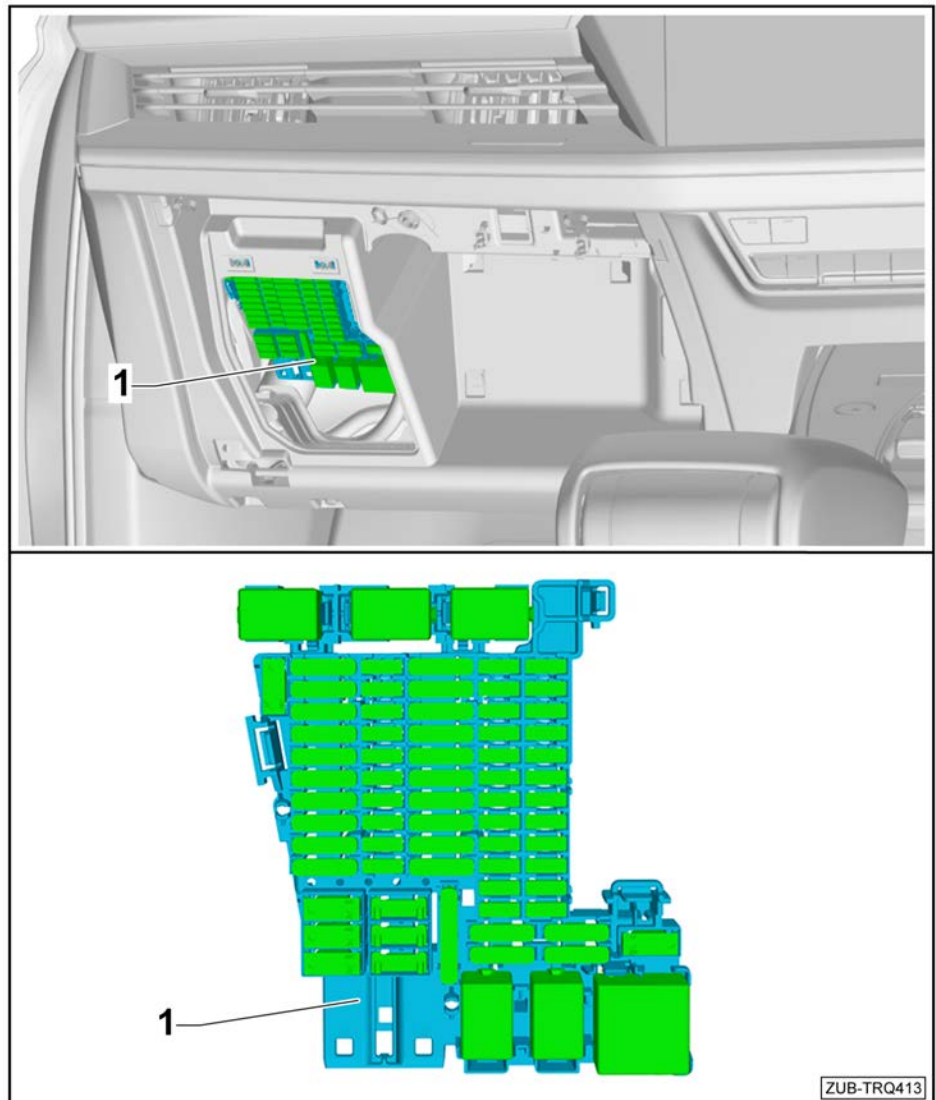
Routing the UTR wiring harness for the on-board supply

- Route the entire UTR wiring harness under the headliner to the A-pillar on the passenger side.
- If necessary, fasten the individual wires in the area of the headliner together using fabric tape to prevent noises from developing.
- Route the UTR wiring harness further downwards from the A-pillar to the fuse holder on the left-hand side, next to the steering column.



Connecting terminal 15 (green) of the UTR wiring harness for the onboard supply to the fuse holder -1-

- Unpin the standard wiring harness on the fuse holder -1- from the following chamber.
- ◆ Chamber F48A
- Pin unpinned contact -F48A- into the connector housing provided (8P0.973.722) and insert into the corresponding connector on the retrofit cable harness.
- Pin the free wire (green) on the UTR wiring harness into free chamber -F48A-.
- If necessary, insert a 7.5-A mini fuse.

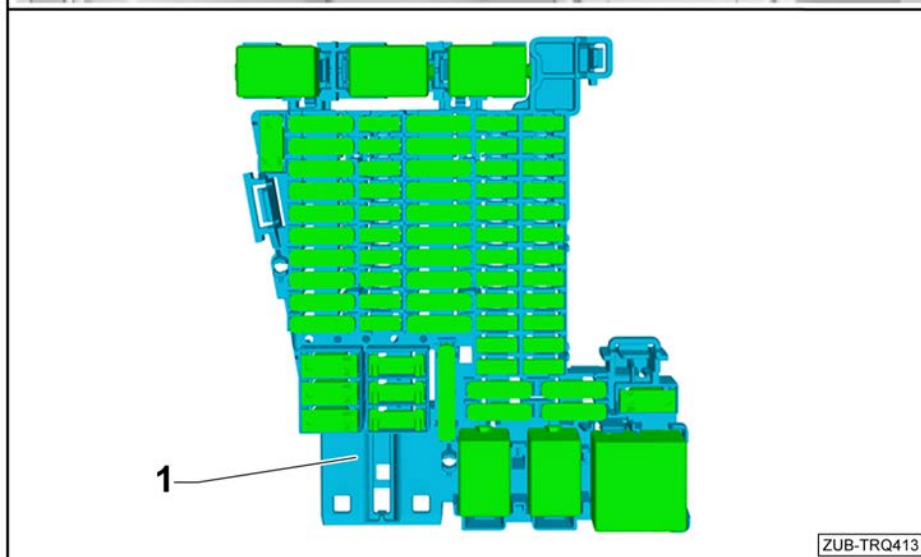
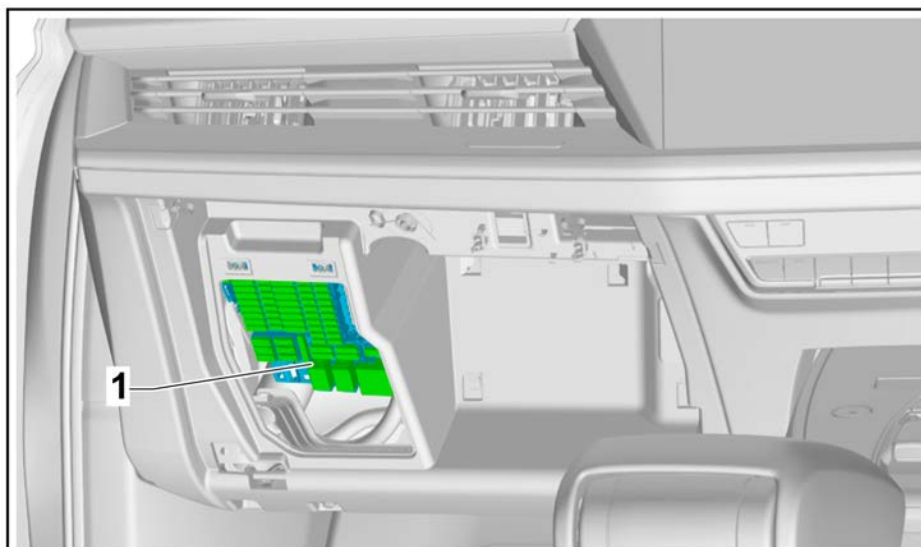


EN



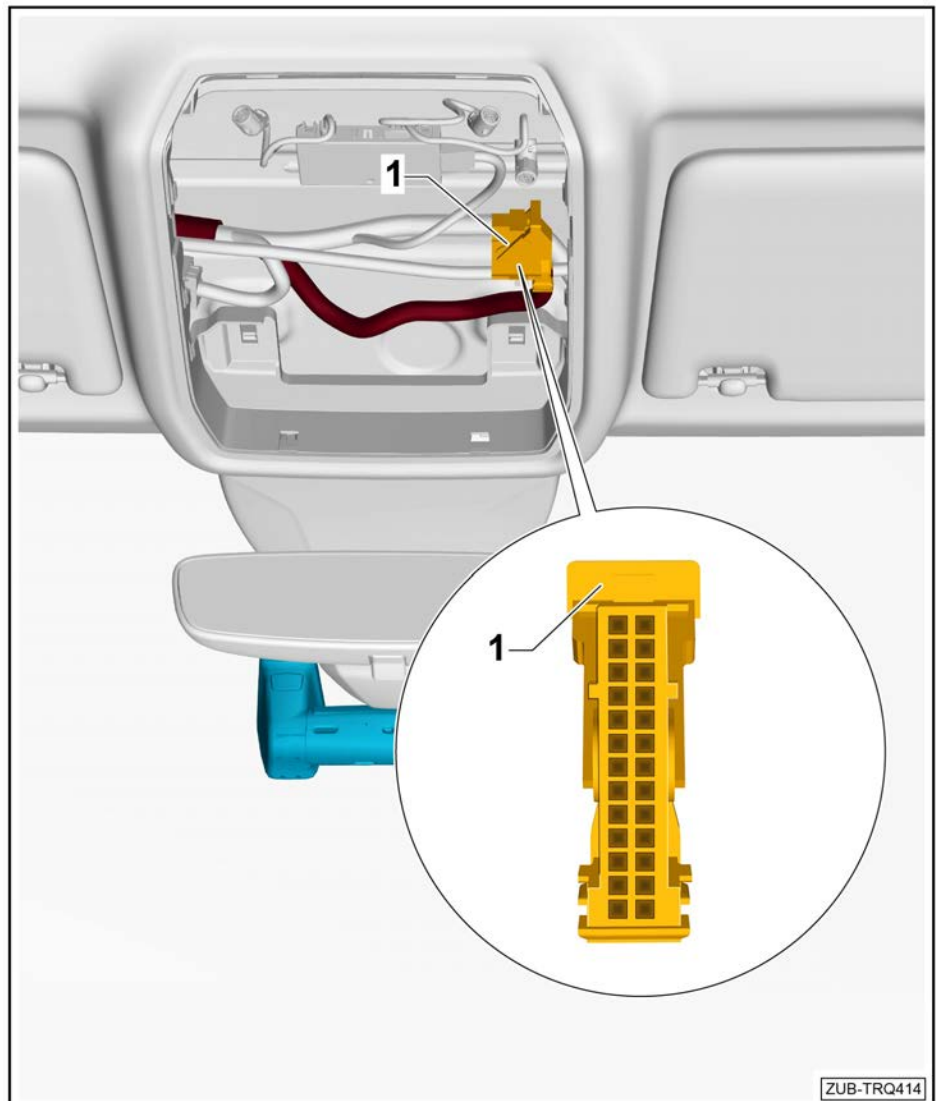
Connecting terminal 30 (red) of the UTR wiring harness for the onboard supply to the fuse holder -1-

- Unpin the standard wiring harness on the fuse holder -1- from the following chamber.
- ◆ Chamber F20A
- Pin unpinned contact -F20A- into the connector housing supplied (8P0.973.722) and insert into the corresponding connector on the UTR wiring harness.
- Pin the free wire (red) on the UTR wiring harness into free chamber -F20A-.
- If necessary, insert a 7.5-A mini fuse.



Connecting the UTR wiring harness earth terminal 31 (black) at the roof module connector -1-

- Unpin the standard wiring harness on the roof module connector -1- from the following chamber.
- ◆ Chamber 01
- Pin the unpinned contact -01- into the connector housing supplied (8W0.971.832.A) and insert into the corresponding connector on the UTR wiring harness.
- Pin the free wire (black) on the UTR wiring harness into the free chamber -01-.
- 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.



5.5 Assembling the vehicle

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

5.6 Installing the front camera

Conditions

The room temperature must be 20°C +/- 4 C.

If the humidity level is high (>70%), the UTR may be installed only once the vehicle has adjusted to the workshop temperature.

Use isopropanol to thoroughly clean the outside and the inside of the window to remove any dust and grease.

TIP:

The appendix to the installation instructions contains a template for positioning the anti-glare film supplied on which the coupling point of the front camera is attached.



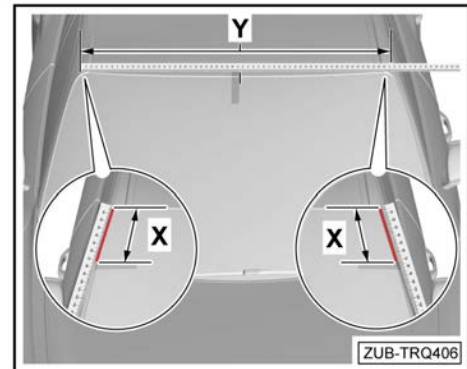
Print out the template.

The template features a positioning mark. Using a ruler, measure the positioning mark. This must be 100 mm.

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

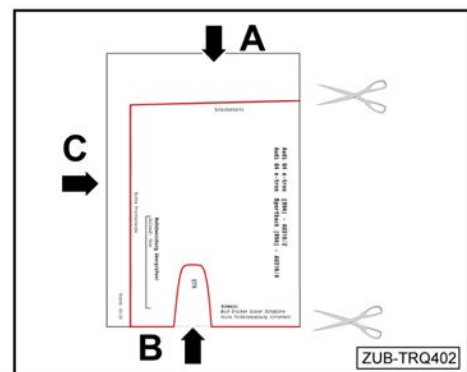
-1- Starting from the right-hand and left-hand edges of the roof, measure -dimension X- downwards along the water deflector strip and mark the relevant points using adhesive tape. Place a measuring tape along the left-hand side of the water deflector strip and along the edge of the adhesive tape on the right- and left-hand sides. Measure the centre of -dimension Y- on the windscreen and mark the centre point with adhesive tape.

X = 70 mm

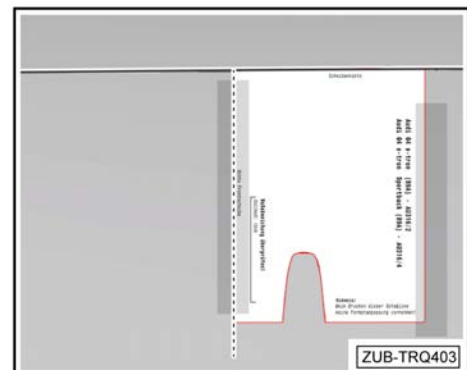


-2- Cut out the template along the dotted lines in the direction of -arrow A-, -arrow B- and -arrow C-.

It is important to make sure that the entire section is cut away.



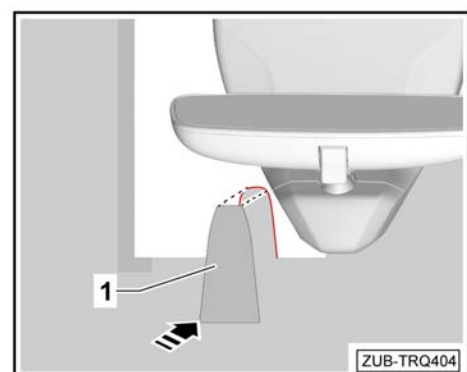
-3- Working from the outer edge, position the template in the centre and on the upper edge of the windscreen and fix the template in position using adhesive tape. The writing on the template must be the right way up facing outwards.



-4- Remove the protective paper from the anti-glare film -1-. Position the anti-glare film -1- on the inside of the windscreen using the template and carefully press it on.

TIP:

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



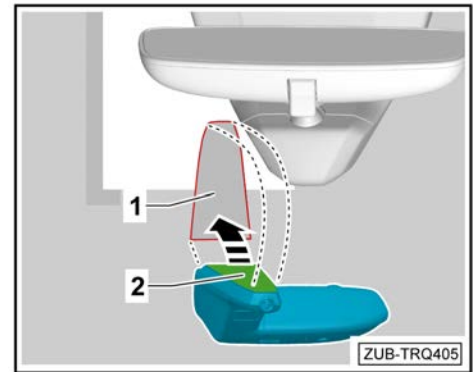


-5- Clip the front camera -2- into the loose mounting base. Position the front camera -2- on the inside of the wind-screen on the anti-glare film -1- and carefully press it on.

TIP:

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

The front camera -2- must be placed in the centre of the protective film and must be positioned straight.



TIP:

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

5.7 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