

## **Installation instructions**

### **Audi reversing camera**

**Audi Q7 (4M) 2015 ► 2019**

**Audi Q7 PU (4M), MY 2020 only**

**Left-hand drive**

**For package number**

**4M1.054.634 for Audi Q7 (4M) 2015 ► 2019**

**4M1.054.634.A for Audi Q7 PU (4M), MY 2020 only**

**With wiring harness 4M0.054.733**

**Audi Genuine Accessories**

Edition 01



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# 1 Notes

## 1.1 General notes

Please read these instructions carefully and note the Warning, Caution and Note descriptions before installing the Audi reversing camera.

### **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.

## 1.2 Safety instructions

### **CAUTION**

Potential hazard to your own safety and that of third parties in the event of failure to comply with the installation instructions and safety instructions.

- Please read these installation instructions carefully before starting installation.

### **NOTICE**

Vehicle damage caused by improper installation.

- 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.

#### TIP:



Installation of the Audi reversing camera must be carried out by a specialist workshop. Special tools and supplementary vehicle-specific literature will be needed to perform the installation. Improper installation can cause damage to the vehicle or the Audi reversing camera.

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.

## 1.3 Repair instructions

### 1.3.1 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.

### 1.3.2 Routing and securing the wiring harness

#### **CAUTION**

**Impairment of airbag function by improper routing or damage to wires.**

- **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.**
- **Due to the limited space available, make sure that there is adequate clearance in relation to all moving components.**



## 2 Scope of delivery

### 2.1 Scope of delivery for package 4M1.054.634

Quantity	Component	Part number
1	Reversing camera	4M0.827.566.C
1	Wiring harness	4M0.054.733
1	Activation document	4M0.054.800

#### Scope of delivery for corresponding wiring harness 4M0.054.733

Quantity	Component	Part number
1	Wiring harness	
1	Connector housing	5C6.973.752 <sup>1)</sup>
1	Connector housing	1C0.973.119.B <sup>1)</sup>
1	Connector housing for video wiring	6Q0 035 576 F <sup>1)</sup>
1	Connector housing for 8-pin connector	8K0 971 833 <sup>1)</sup>
25	Cable ties	
2	Foam grommet	

<sup>1)</sup> in PE bag on the wiring harness.

### 2.2 Scope of delivery for package 4M1.054.634.A

Quantity	Component	Part number
1	Reversing camera/handle button with reversing camera	8W8.827.566.E
1	Y-pipe (PU models only)	4M0.955.961.A
1	Wiring harness	4M0.054.733
1	Activation document	4M0.054.800

Scope of delivery for wiring harness 4M0.054.733; see table above



## 3 Preparations

### 3.1 Disassembling the vehicle

#### ELSA (Electronic Service Information System) reference

- Disconnect the battery. ⇒ Electrical system; Rep. gr. 27; Battery; Disconnecting and connecting the battery
- Remove the glove compartment. ⇒ General body repairs, interior; Rep. gr. 68; Glove compartment; Removing and installing the glove compartment
- Remove the control unit for the Multi Media Interface. ⇒ Communication; Rep. gr. 91; Infotainment system; Removing and installing control unit 1 for information electronics
- Remove the A-pillar trim on the driver's side. ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the A-pillar trim
- 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 driver's side. ⇒ General body repairs, interior; Rep. gr. 68; Interior trims; Removing and installing the footwell trim
- Remove the front sill panel trim on the passenger side. ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the sill panel trim
- Remove the front sill panel trim on the driver's side. ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the sill panel trim
- Remove the B-pillar trim on the passenger side. ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the B-pillar trim on the passenger side
- Remove the B-pillar trim on the driver's side. ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the B-pillar trim on the passenger side
- Remove the rear sill panel trim on the passenger side. ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the sill panel trim
- Remove the rear sill panel trim on the driver's side. ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the sill panel trim
- Remove the driver's seat. ⇒ General body repairs, interior; Rep. gr. 72; Driver's seat; Removing and installing the driver's seat
- Remove the bench seat/individual seats ⇒ General body repairs, interior; Rep. gr. 72; Rear bench seat; Removing and installing the bench seat/individual seats
- Remove the C-pillar trim on the driver's side. ⇒ General body repairs, interior; Rep. gr. 70; Interior trims; Removing and installing the C-pillar
- Remove the luggage compartment side trim on the driver's side ⇒ General body repairs, interior; Rep. gr. 70; Luggage compartment trims; Removing and installing the luggage compartment side trim
- Remove the rear lid trim. ⇒ General body repairs, interior; Rep. gr. 70; Luggage compartment trim; Removing and installing the rear lid trim

### 3.2 Installing the reversing camera on the vehicle

- Install the reversing camera in the button for actuating the lid lock.

#### Applies only to MY 2020

- Install the handle button with reversing camera.



- Divide the rear window windscreen washer system hose for the camera and windscreen using the supplied Y-pipe.

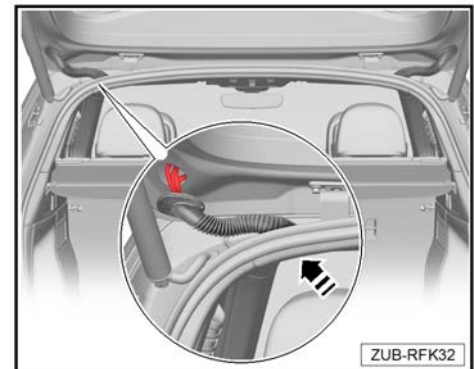
### 3.3 Installing the Y-pipe

#### Applies only to MY 2020

- Remove the hose from rear window wash and wipe system.
- Fit the Y-pipe to the hose. Check that it is securely fitted.
- Attach one side of the Y-pipe to the rear window wash and wipe system.
- Attach the second side of the Y-pipe to the button/handle to enable cleaning of the reversing camera.
- Check the system for leaks!

### 3.4 Routing the wiring harness to the reversing camera

- Route the wiring harness with the connectors for the reversing camera from the vehicle interior via the grommet into the rear lid.



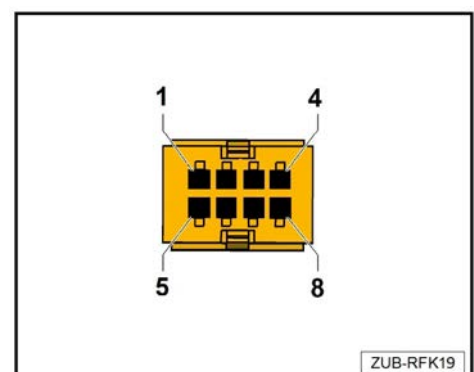
### 3.5 Installing and connecting the connector for the reversing camera wiring harness

- Insert the loose wire for video transmission into the supplied connector housing 6Q0 035 576 F.
- Insert the four loose wires for the power supply to the reversing camera into the supplied 8-pin connector housing 8K0 971 833 as follows.

#### TIP

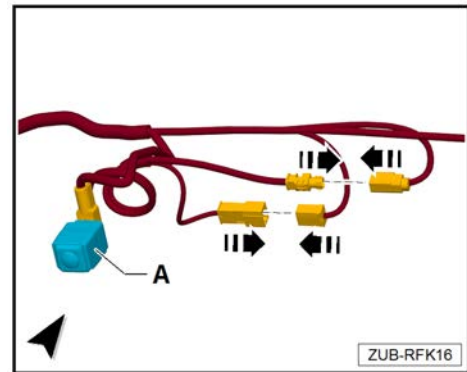
Figure shows the pin side of connector 8K0 971 833.

- ◆ Red/yellow wire into PIN 1
- ◆ Orange/grey wire into PIN 4
- ◆ Brown wire into PIN 5
- ◆ Orange/brown wire into PIN 8



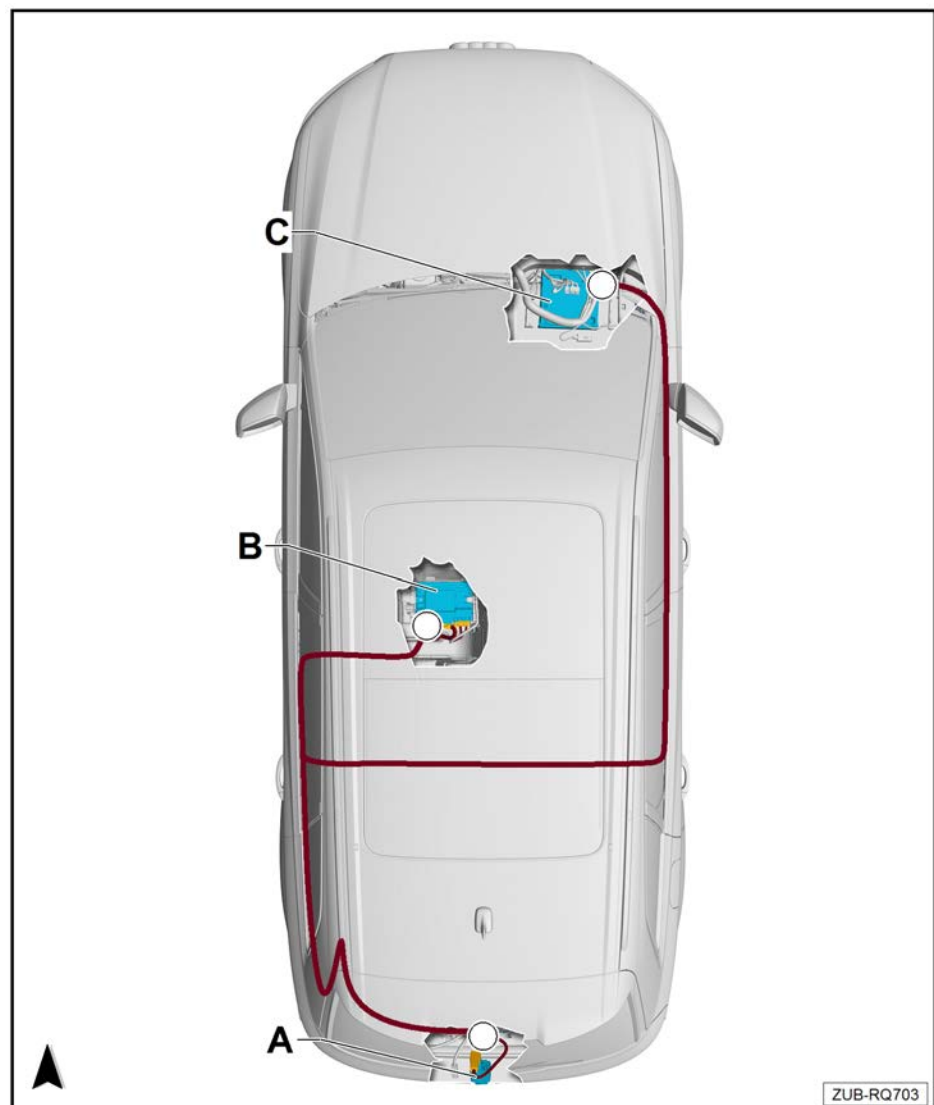


- Fit foam grommets over the two connectors for the reversing camera.
- Connect the two connectors for video transmission on the wiring harness to the reversing camera -A- in the -direction of the arrow-.
- Secure the connectors using foam grommets and cable ties to prevent noise from developing.
- Secure the wiring harness using cable ties to prevent noise from developing.

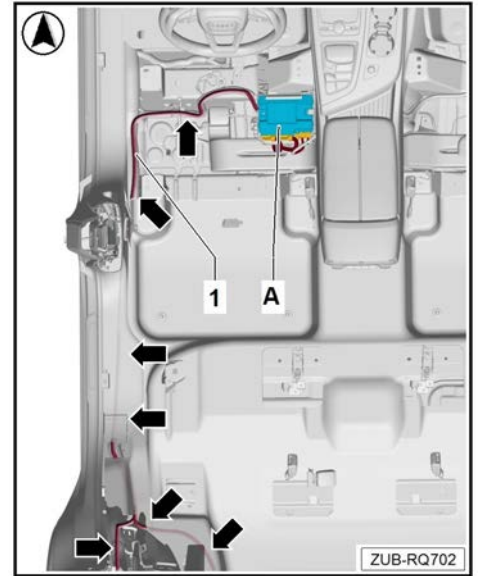


### 3.6 Routing the wiring harness to the data bus diagnostic interface -J533- and control unit 1 for information electronics -J794-

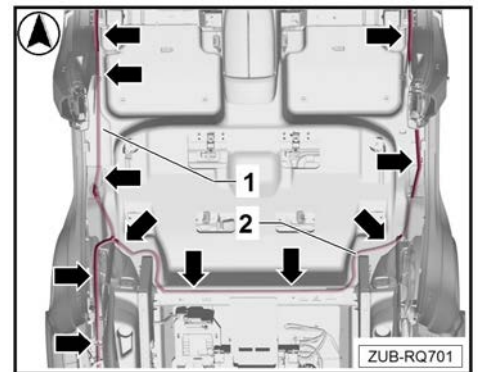
- A - Reversing camera
- B - Data bus diagnostic interface -J533-
- C - Control unit 1 for information electronics -J794-



- From the grommet in the vehicle interior, route the other part of the wiring harness over the C-pillar along the standard wiring harness toward the rear bench seat.
- The wiring harness is split at the rear seat bench; one part of the wiring harness -1- is routed under the driver's seat toward the data bus diagnostic interface -J533- -A-.



- The rest of the wiring harness -2- for control unit 1 for information electronics -J794- is routed between the carpet and the body along the luggage compartment partition and along the passenger side to control unit 1 for information electronics -J794-.





## 4 Connecting the reversing camera wiring harness

### 4.1 Connecting the wiring harness to the data bus diagnostic interface -J533-

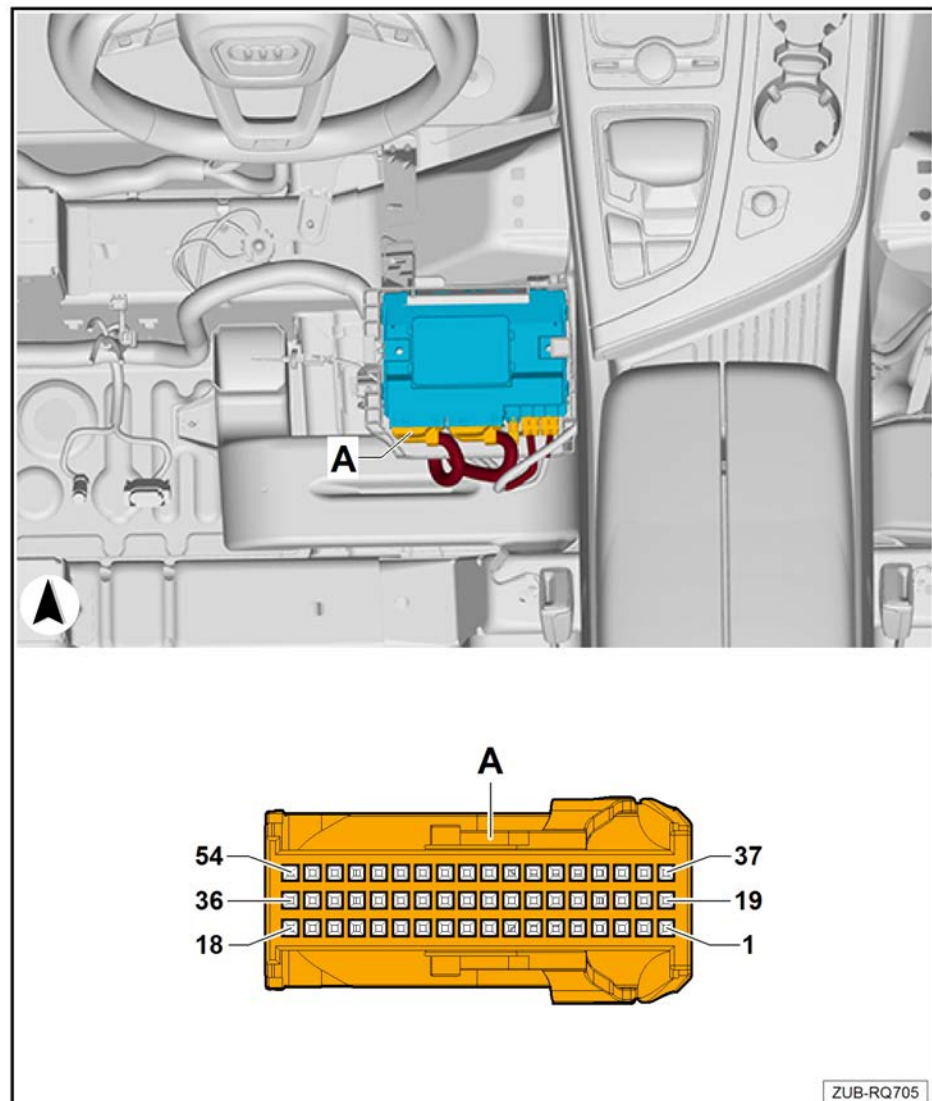
#### NOTICE

For vehicles where chambers 30 and 12 on connector -A- are not occupied by pins, the loose wires (orange/brown for chamber 30 and <sup>1)</sup> for chamber 12) from the reversing camera retrofit wiring harness must be pinned directly into connector -A-.

- Insert the enclosed connector housing (1C0.973.119.B) into the black connector housing (3D0.973.332) on the reversing camera retrofit wiring harness as contact protection, attach the cables to the wiring harness and secure them to prevent noise.

Applies to vehicles where connector -A- is occupied by pins.

Connecting the CAN signal to data bus diagnostic interface -J533- connector -A-



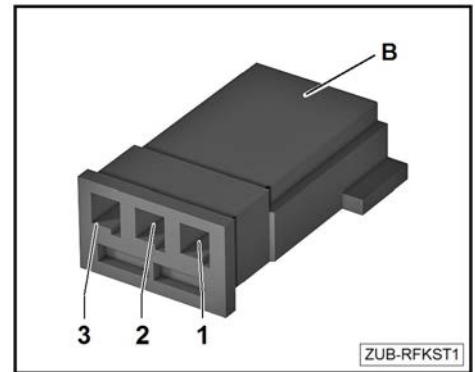
<sup>1)</sup> Wire colour may vary in accordance with ELSA.



- Unclip connector -A- from the data bus diagnostic interface -J533- and individually unpin the following compartments.

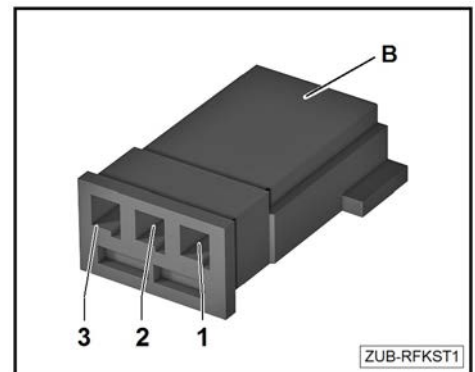
Unpin the orange/brown wire from compartment 30.

- Pin the unpinned contact -30- into the connector housing provided -B- (1C0.973.119.B) in compartment -1-.
- Pin the loose orange/brown wire on the reversing camera wiring harness into the free compartment -30- in connector -A-.



Unpin the wire <sup>1)</sup> from compartment 12.

- Pin the unpinned contact -12- into the connector housing provided -B- (1C0.973.119.B) in compartment -3- and insert the connector housing into the corresponding connector on the wiring harness.
- Pin the loose wire <sup>1)</sup> on the reversing camera wiring harness into the free compartment -12- in connector -A-.
- Reinsert connector -A- into the data bus diagnostic interface -J533- and lock in place.



<sup>1)</sup> Wire colour may vary in accordance with ELSA.



## 4.2 Connecting the wiring harness to control unit 1 for information electronics -J794-

### Connecting to control unit 1 for information electronics -J794- connector -2 area D-

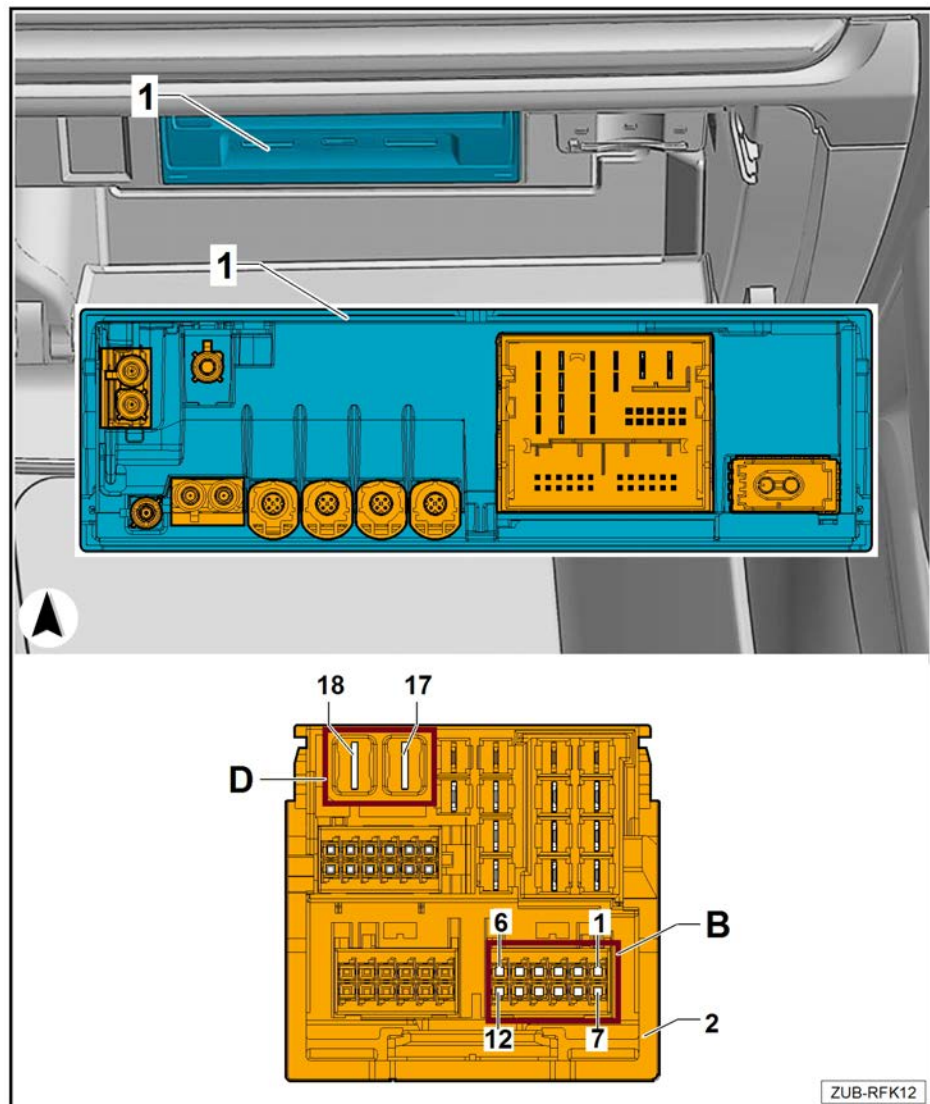
- Unclip the connector -2- from control unit 1 for information electronics -J794-.
- Individually unpin the following compartments on connector -2 area D-.

Unpin compartment 17.

- Pin the unpinned contact -17- into the connector housing provided (5C6.973.752) in compartment -1-.
- Pin the loose brown wire on the reversing camera wiring harness into the free compartment -17- in connector -2 area D-.

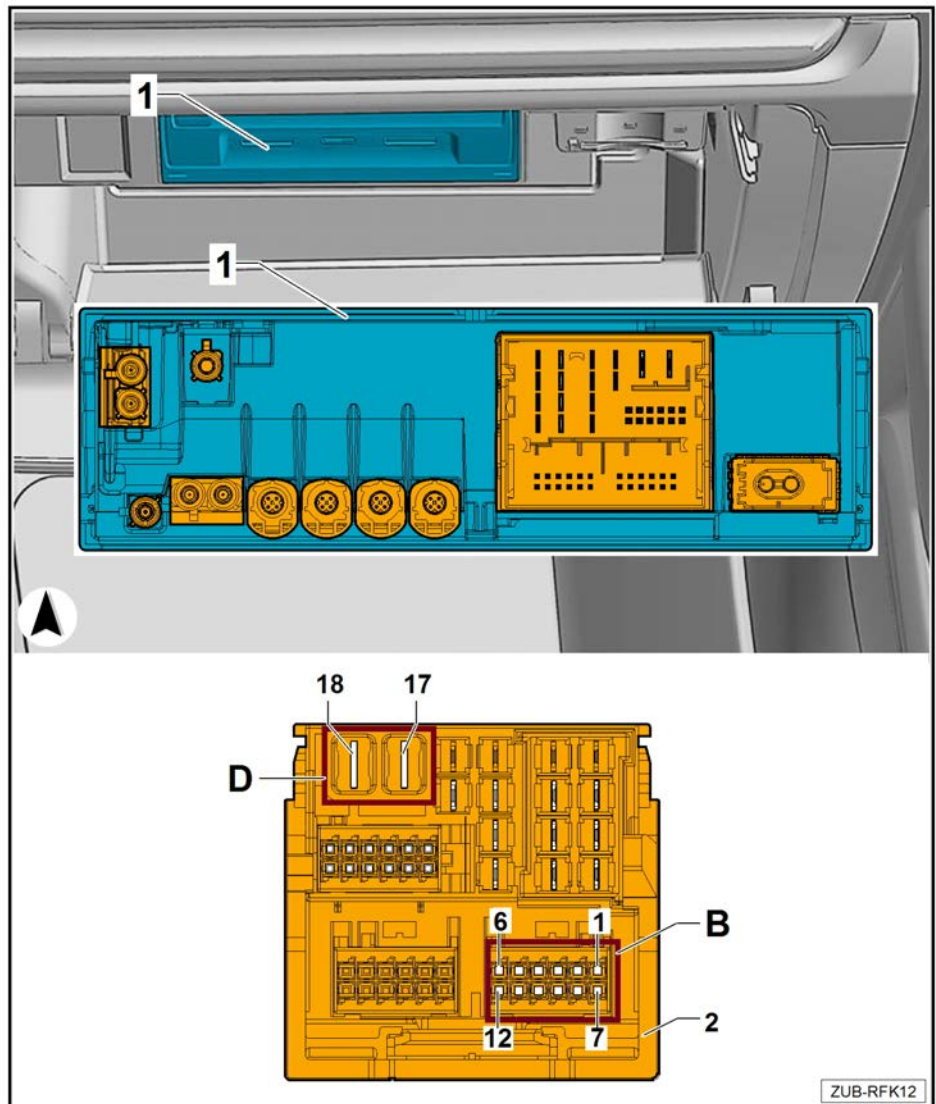
Unpin chamber 18.

- Pin the unpinned contact -18- into the connector housing provided (5C6.973.752) in compartment -2- and insert the connector housing into the corresponding connector on the wiring harness.
- Pin the loose red/yellow wire on the reversing camera wiring harness into the free compartment -18- in connector -2 area D-.



### Connecting to control unit 1 for information electronics -J794- connector -2 area B-

- Pin the loose white -Video Out- wire on the reversing camera wiring harness into the free compartment -6 In Plus- in connector -2 area B-.
- Pin the loose black -Video Out GND- wire on the reversing camera wiring harness into the free compartment -12 In Minus- in connector -2 area B-.
- Reinsert the connector -2- back into control unit 1 for information electronics -J794- and lock in place.



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### 4.3 Concluding operations

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

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

**TIP**

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

- Perform the activation procedure for the reversing camera.
- Perform the calibration procedure for the reversing camera. ⇒ Communication; Rep. gr. 91; Reversing camera; Calibrate the reversing camera.



- Perform a function test for the reversing camera and the PDC.
- Clear the fault memory.