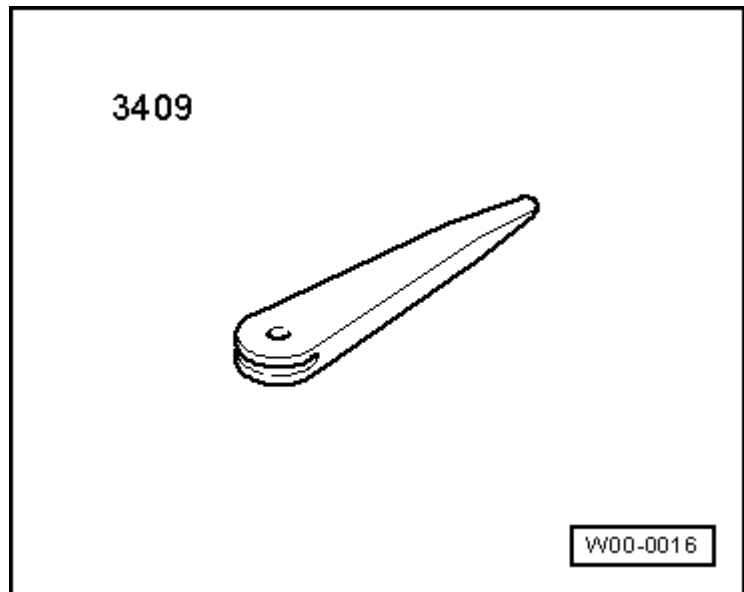


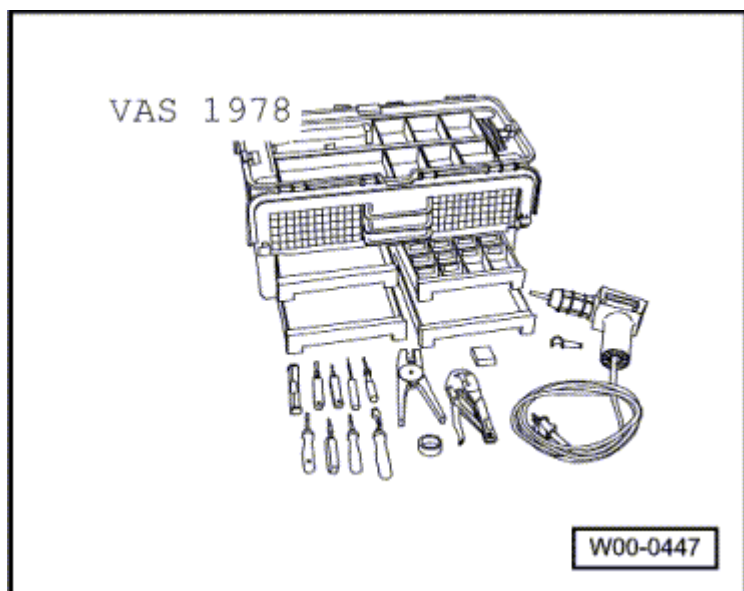
## Retrofitting a coolbox

### Special tools and workshop equipment required

- ◆ Removal wedge -3409-

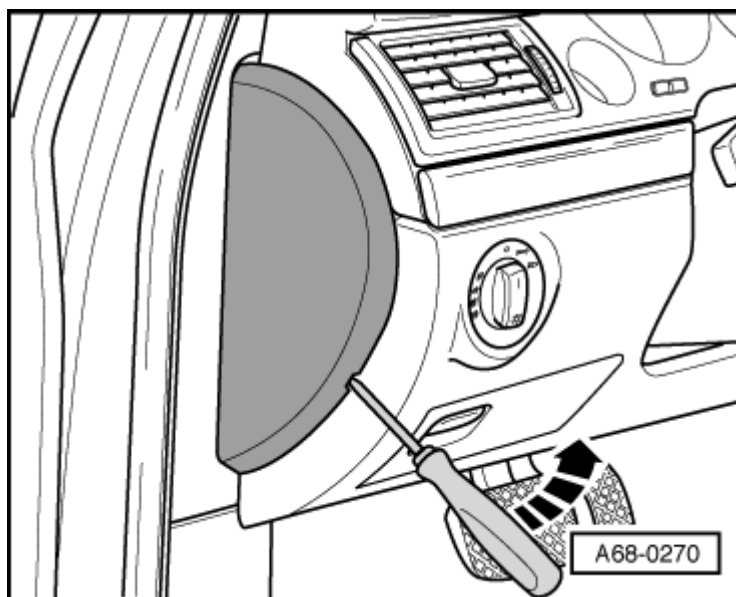


- ◆ Wiring harness repair set -VAS 1978-

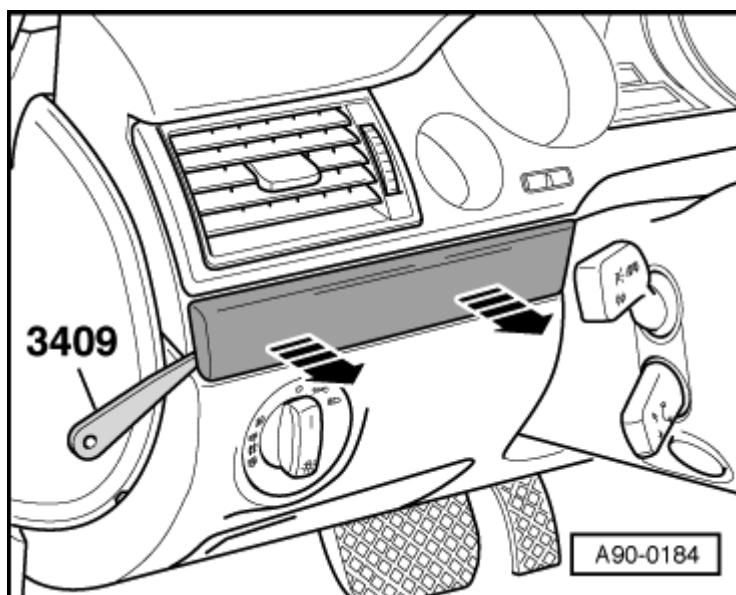


### Procedure

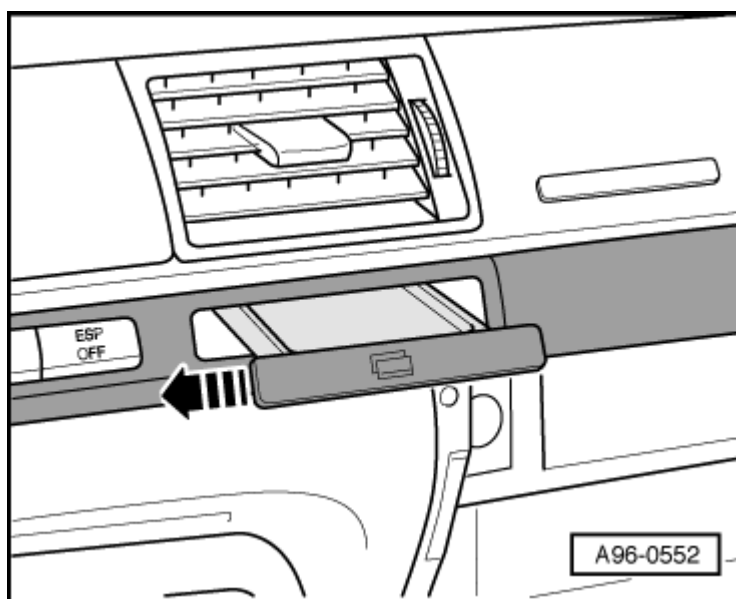
- Switch off ignition and remove ignition key.
- Use screwdriver to prise off dash panel end trim (left-side) -arrow-.



- Carefully detach trim panel from dash panel using removal wedge -3409--arrows- .
- Open coin holder.



- Slide trim for coin holder to left out of fastener -arrow- and detach.
- Open glove box.



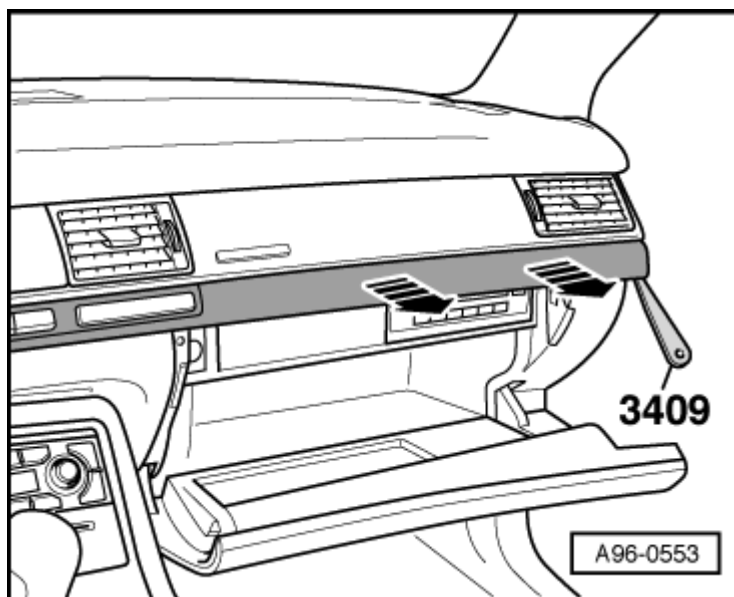
- Starting from above glove box, carefully separate trim panel with switch panel from

dash panel using removal wedge -3409-.

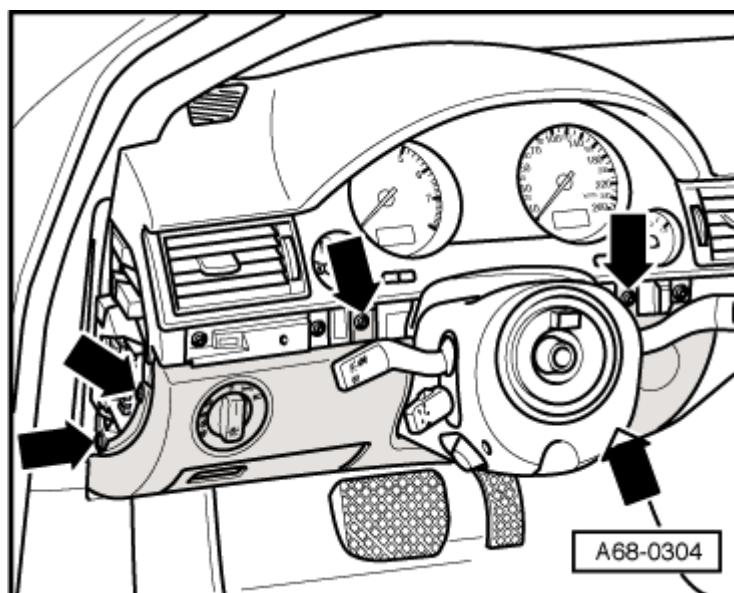
**Note**

*Take particular care when unfastening clip at end of trim panel closest to driver.*

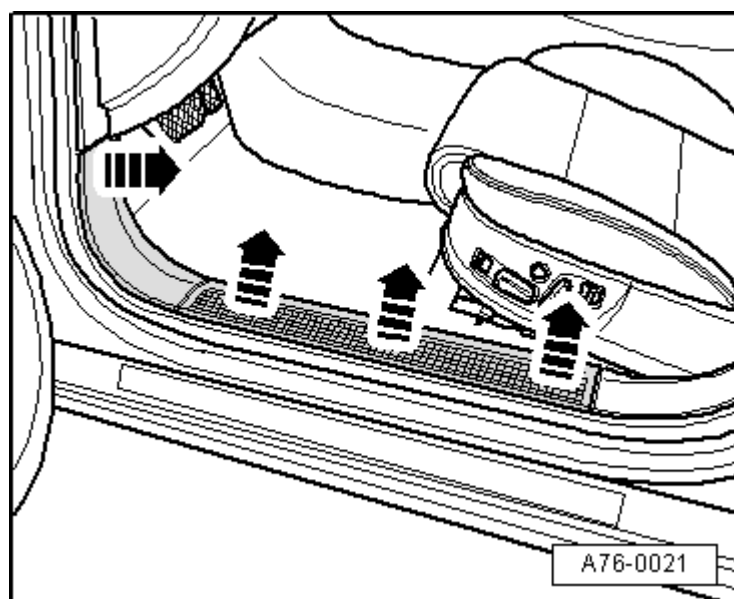
- Unplug electrical connector.



- Unscrew driver's storage compartment - arrows-.
- Unplug electrical connectors.



- Detach trim for A-pillar (bottom) -arrows-.



**Vehicles with fixed backrest:**

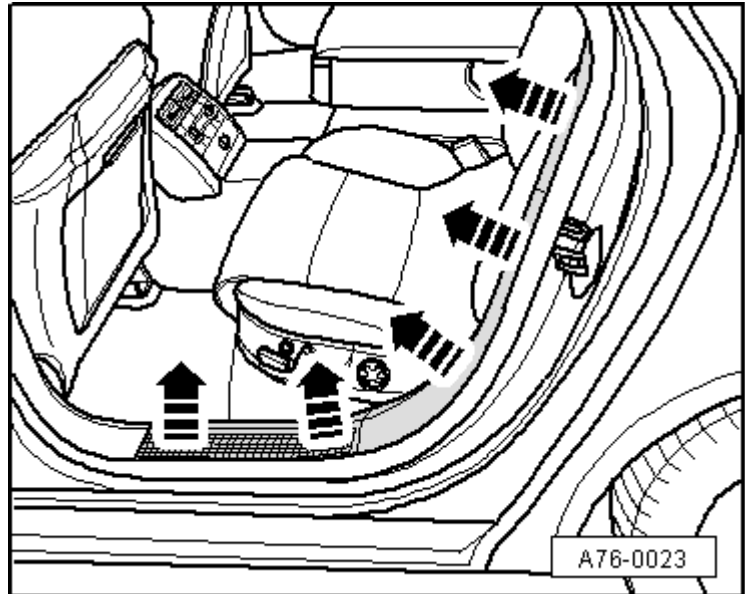
- Remove rear seat bench → General body repairs, interior; Rep. Gr.72.
- Remove rear seat backrest → General body repairs, interior; Rep. Gr.72.

**Vehicles with individual rear seats:**

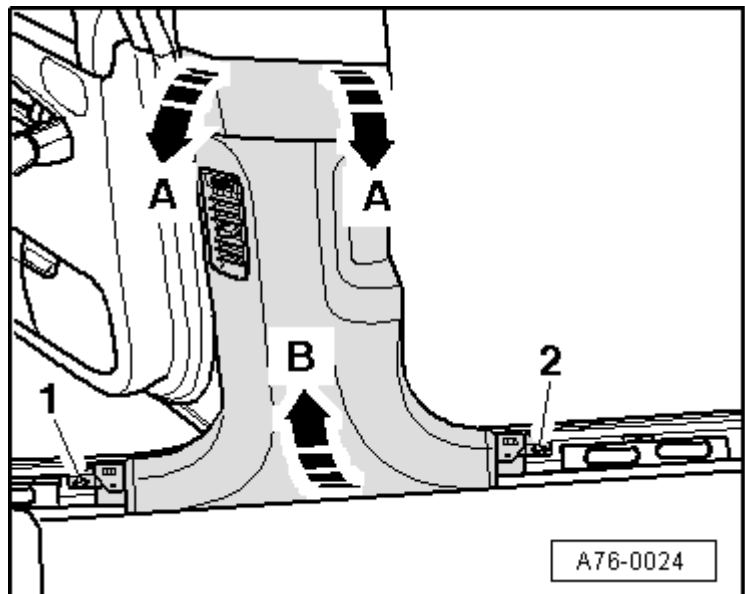
- Move the seat and backrest as far forwards as possible.

**All:**

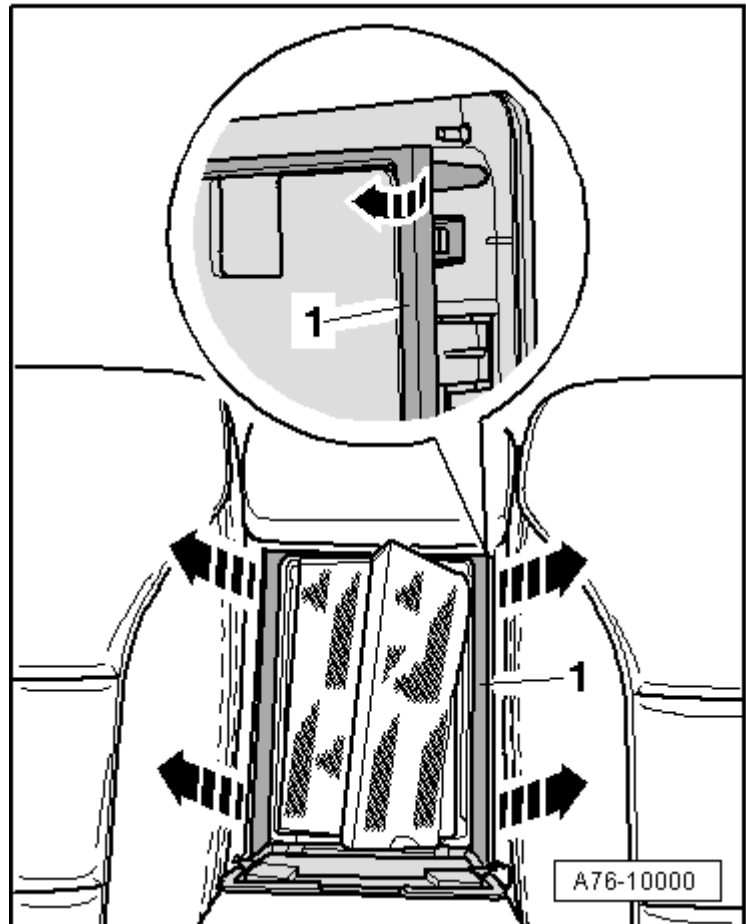
- Detach trim for C-pillar (bottom) -arrows-.



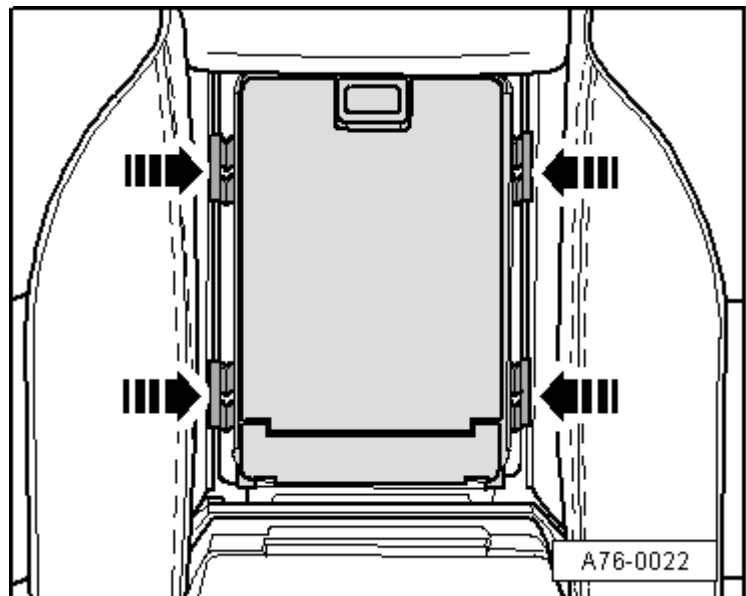
- Unscrew bolts -1- and -2-.
- Detach trim for B-pillar (bottom) from trim for B-pillar (top) -arrows A-.
- Pull trim for B-pillar (bottom) upwards out of fresh-air duct -arrow B-.



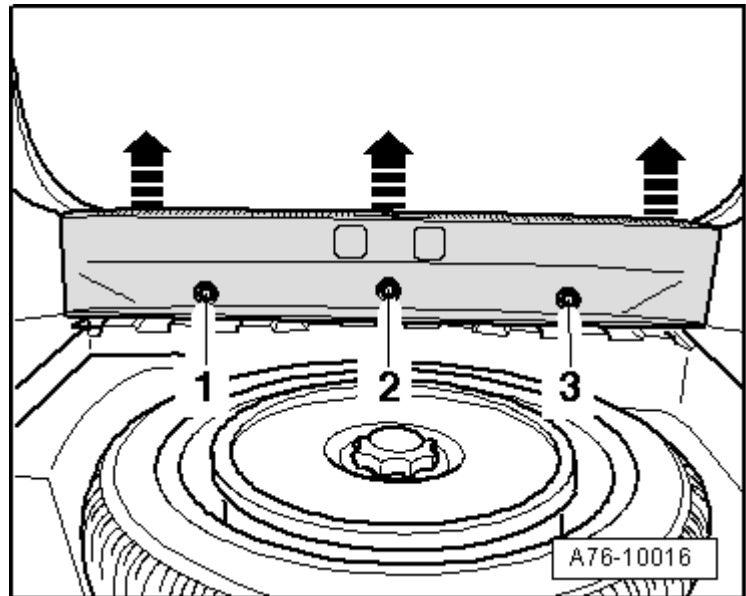
- Open centre armrest (rear).
- Open load-through hatch (for ski bag).
- Reach behind top of retaining frame -1- and release the retaining clips -arrows- on side of ski bag, starting at top.
- Remove retaining frame from between the backrests.



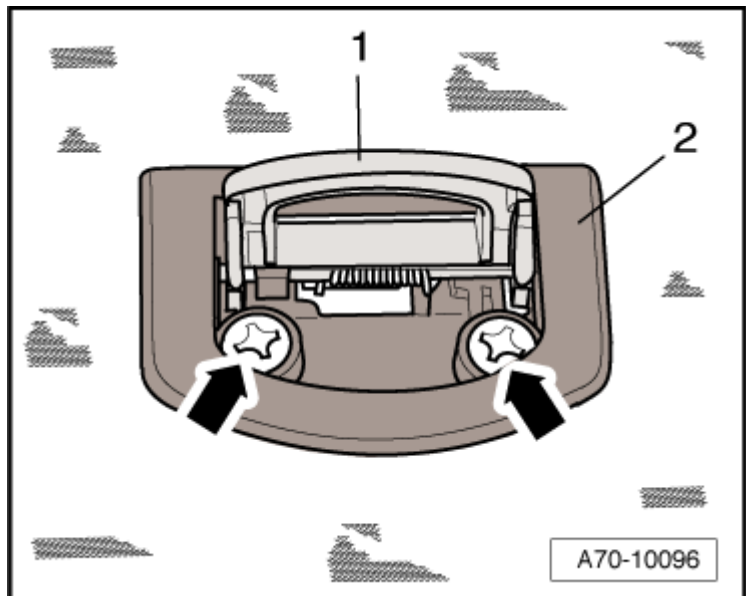
- Release retaining clips -arrows- and press ski bag out of retaining frame towards luggage compartment.



- Remove retaining clips from luggage compartment floor covering.
- Take luggage compartment floor covering out of luggage compartment.
- Pull pins -1 ... 3- out of fasteners.
- Lift off rear cross panel trim -arrows-.



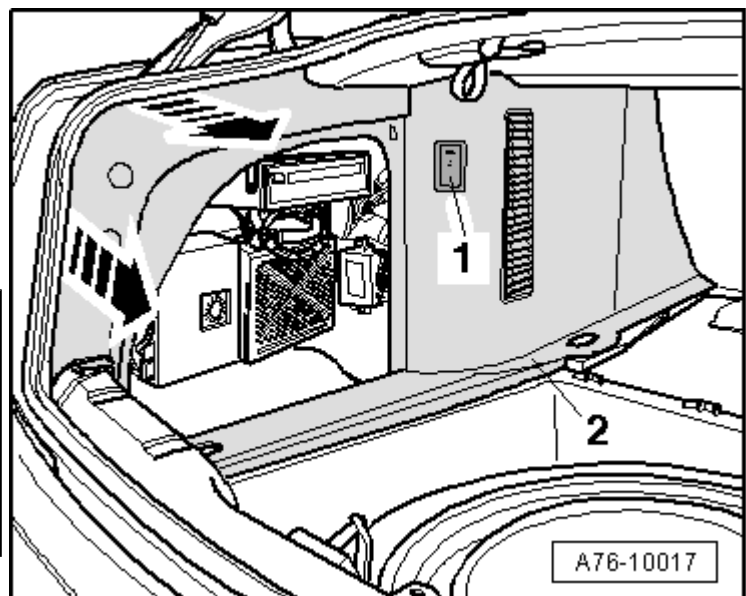
- Fold up fastening ring -1-.
- Unscrew bolts -arrows- and detach mounting bracket for fastening ring -2-.



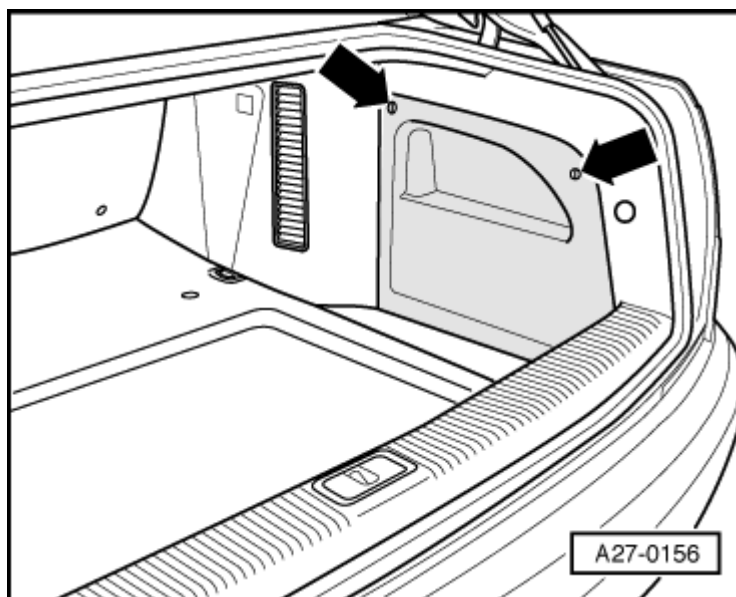
- Detach retaining clips on luggage compartment side trim -2- from body -arrows-.
- Unplug electrical connector at 12 V socket -1-.
- Take luggage compartment side trim out of luggage compartment.

**⚠ WARNING**

***On vehicles fitted with a telematics system, activate the telematics control unit service mode in "Guided Fault Finding" before disconnecting the battery → Vehicle diagnosis, testing and information system VAS 5051.***



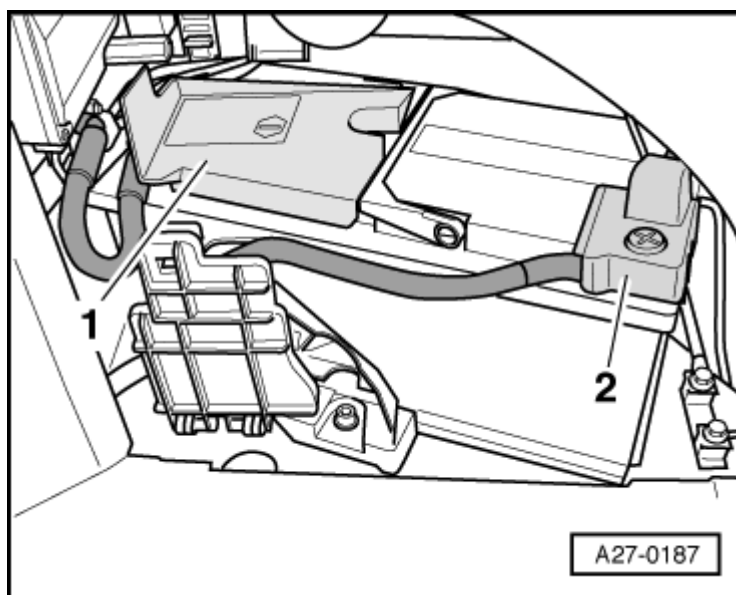
- Switch off ignition and remove ignition key.
- Remove cover of luggage compartment side trim (right-side) -arrows-.



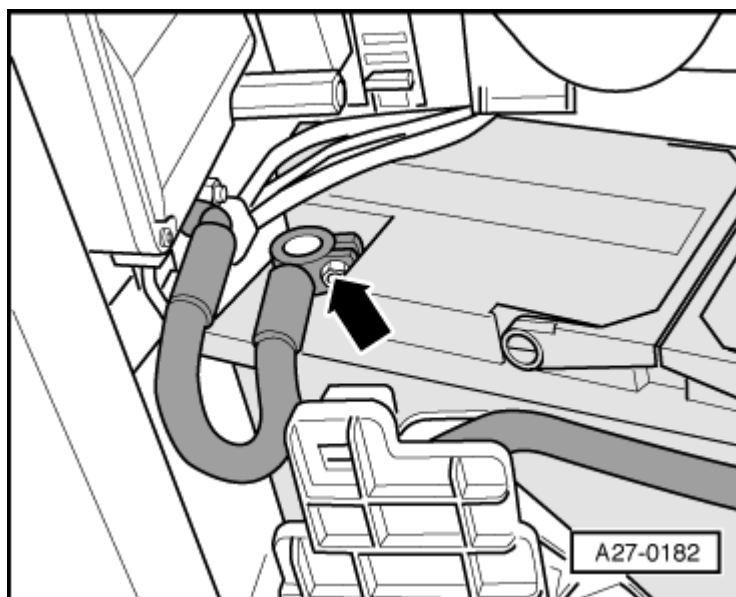
- Remove cover -1- over battery.

**Note**

Ignore -item 2-.



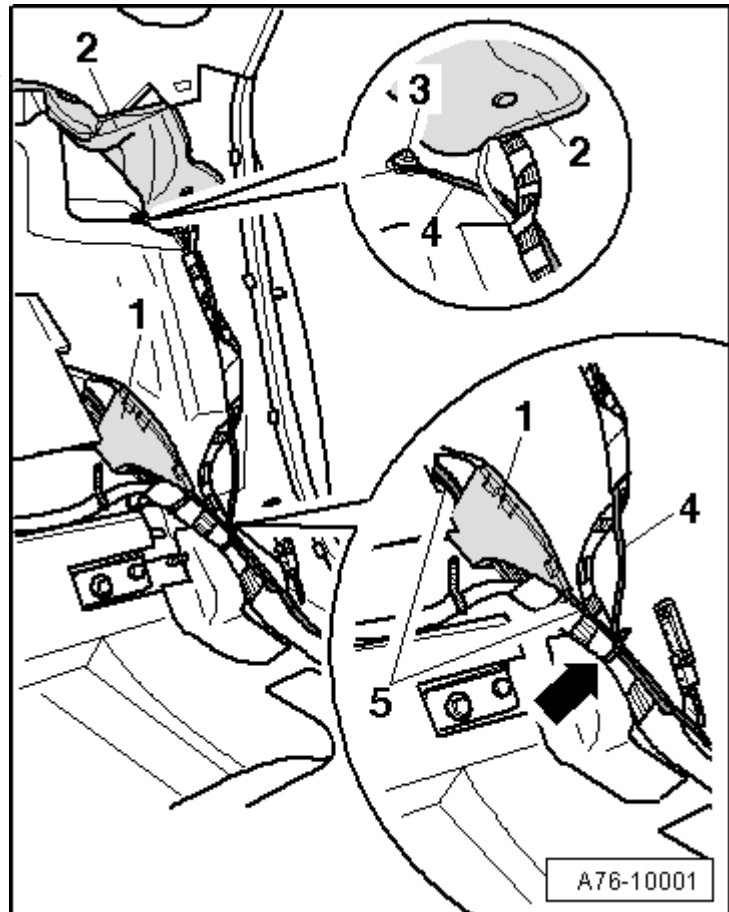
- Disconnect earth wire -arrow- at battery.



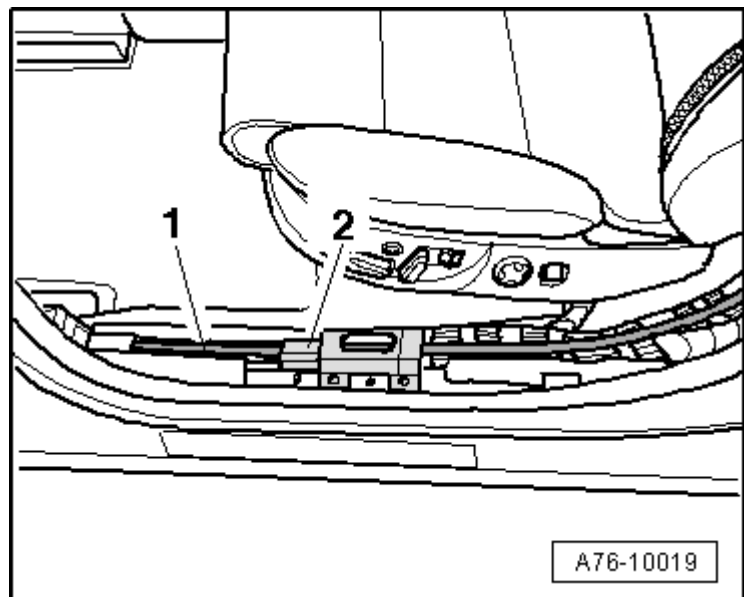
- Guide electrical wiring -5- leading to coolbox through cable duct -1- towards rear

into luggage compartment.

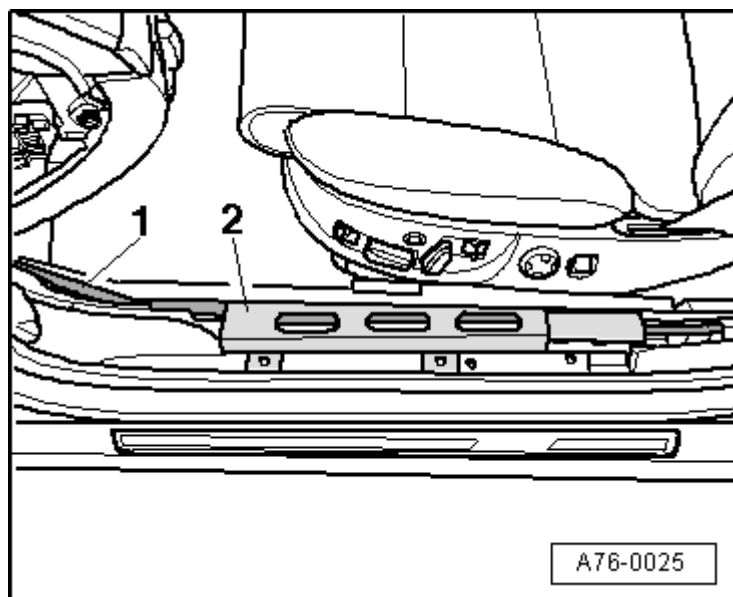
- Fold up insulating mat -2- and remove bolt -3- at earth point.
- Position earth wire -4- of wiring harness for coolbox at earth point in addition to earth wires already attached there. Then tighten bolt.
- Secure electrical wire at the point marked with an -arrow- using a cable tie from the repair kit.



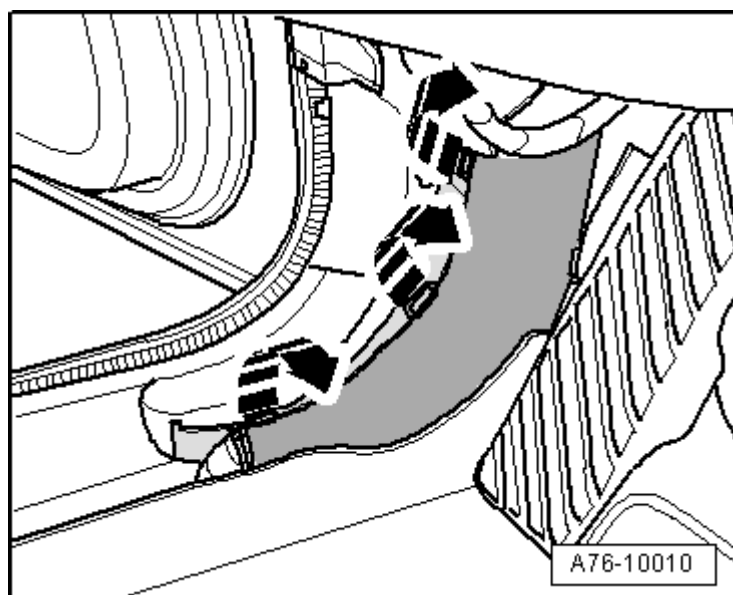
- Guide electrical wire -1- at rear sill towards the front through cable duct -2-.



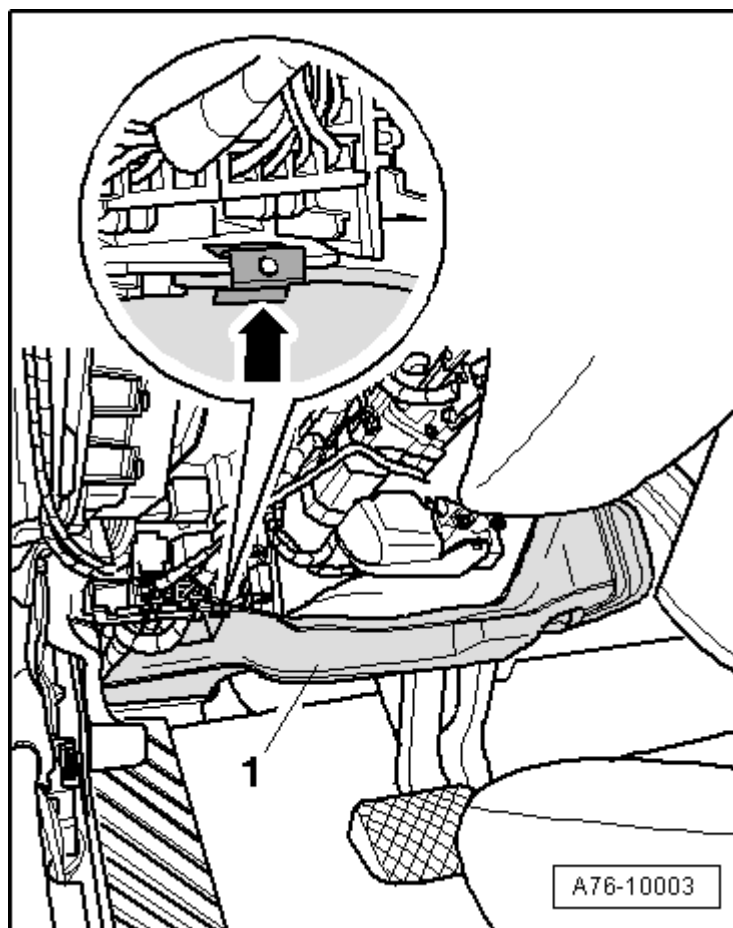
- Guide electrical wire -1- at front sill towards the front through cable duct -2-.



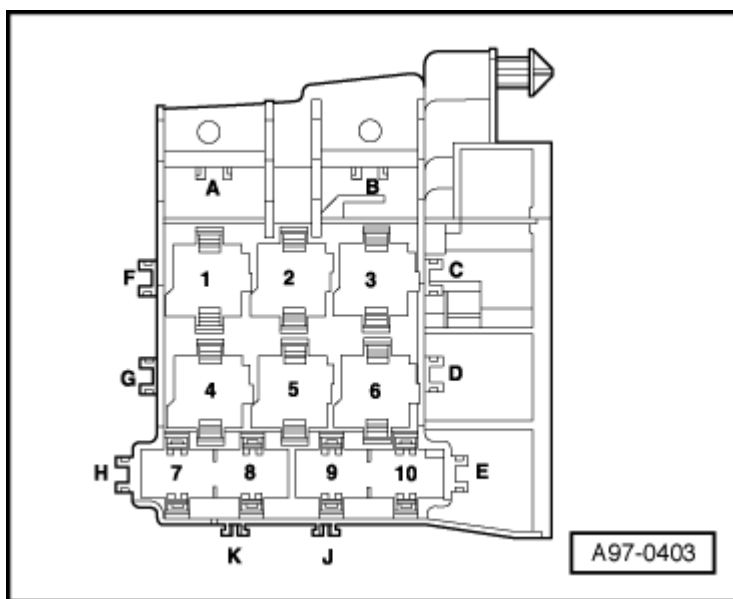
- Release retainers -arrows- on cable duct at A-pillar and guide electrical wire upwards underneath the dash panel.
- Then close the cable duct again, making sure you hear the retainers engage.



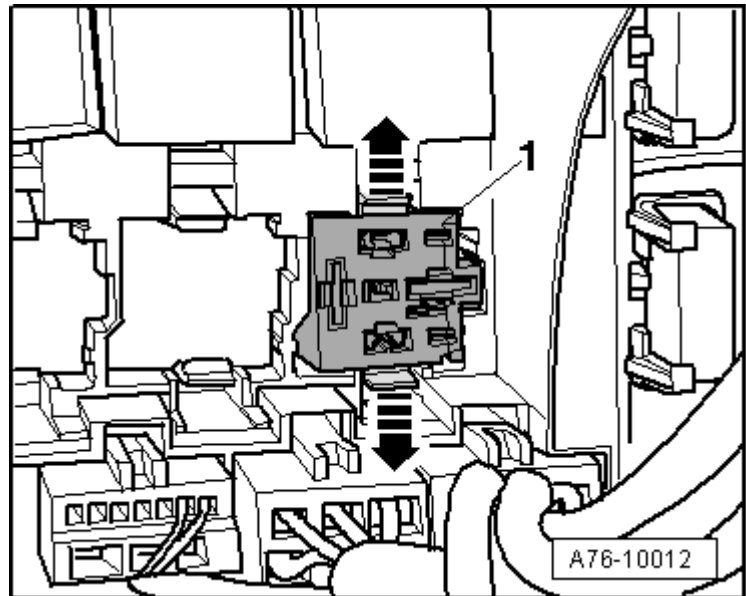
- Release retaining clip -arrow- and detach air duct -1-.



- Disconnect terminal 75 voltage supply relay 1 -J680- from position 6 on relay and fuse holder behind dash panel (left-side).



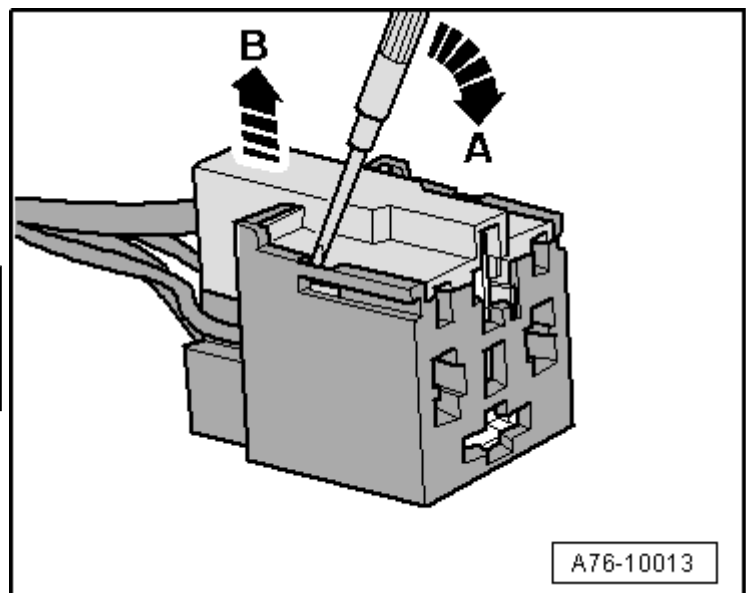
- Release retaining clips -arrows- and unclip relay socket.



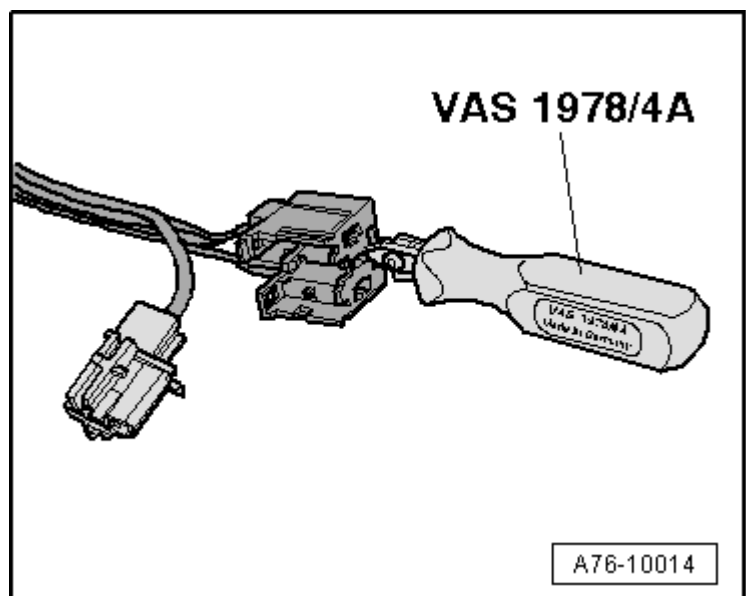
- Use a small screwdriver to carefully release the retainers -arrow A- and push the lower section of the relay socket off the upper section -arrow B-.
- Open up the wrapping on the vehicle wiring harness leading to the relay socket along a length of approx. 100 mm.

**Caution**

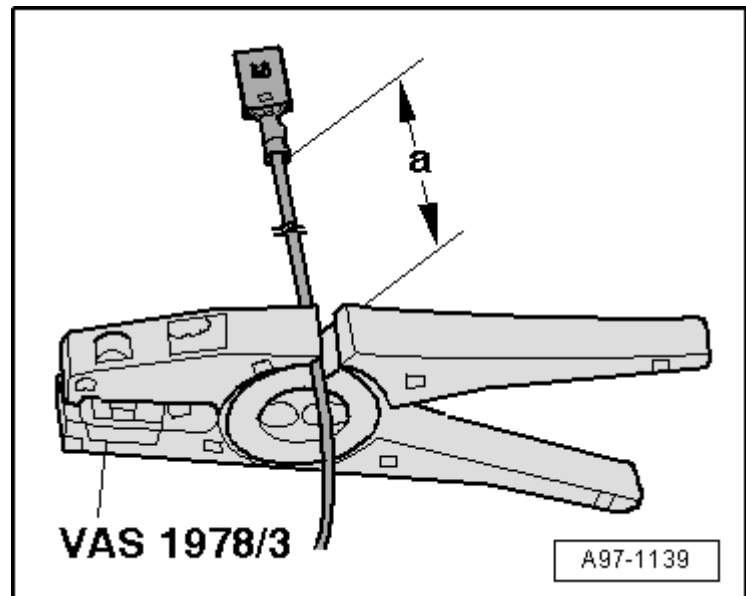
**Make sure the insulation of the electrical wiring is not damaged.**



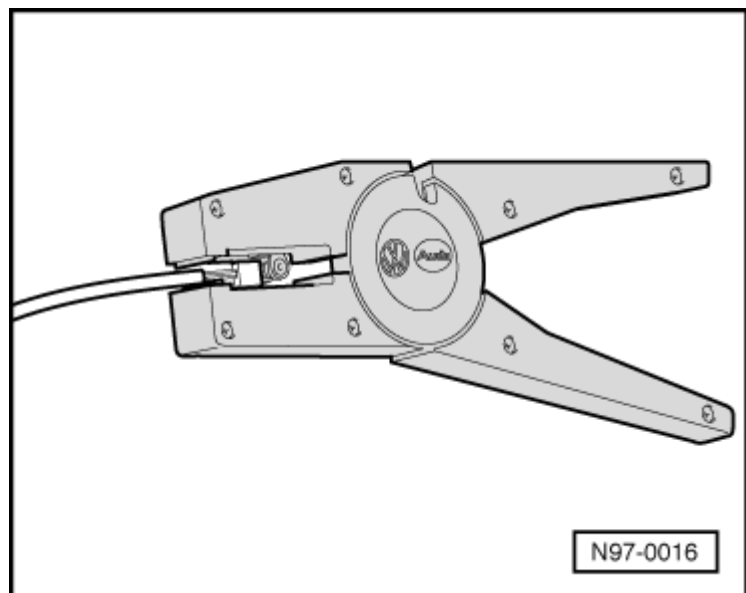
- Use removing tool -VAS 1978/4A- to release connector in position 2 on upper section of relay socket.
- Pull connector out of relay socket.

**Installing**

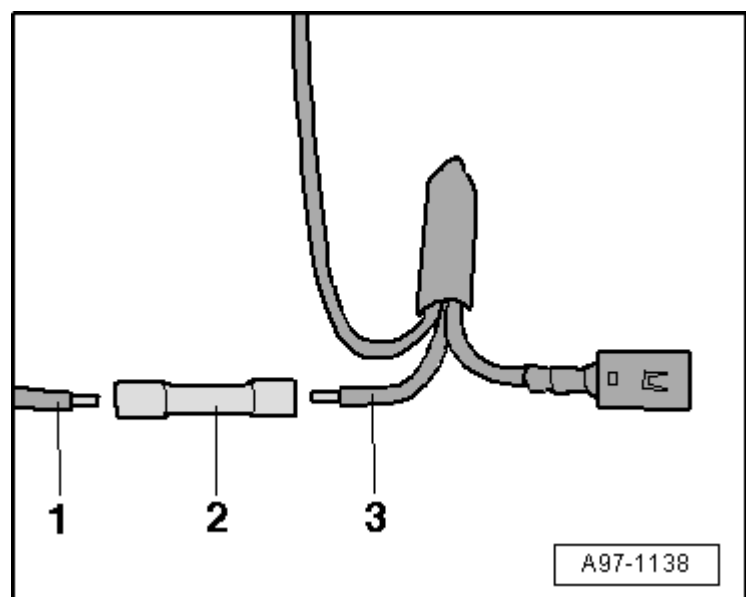
- Use wire stripper -VAS 1978/3- to disconnect the unplugged connector from the vehicle wiring harness (distance to connector: dimension -a-).
- Dimension -a- = 90 mm



- Use wire stripper -VAS 1978/3- to strip 6 ... 7 mm of insulation off the free end of the vehicle wiring harness.



- Slide a "yellow" crimp connector -2- from wiring harness repair set -VAS 1978- onto free ends of vehicle wiring harness -1- and Y wire -3- for coolbox.

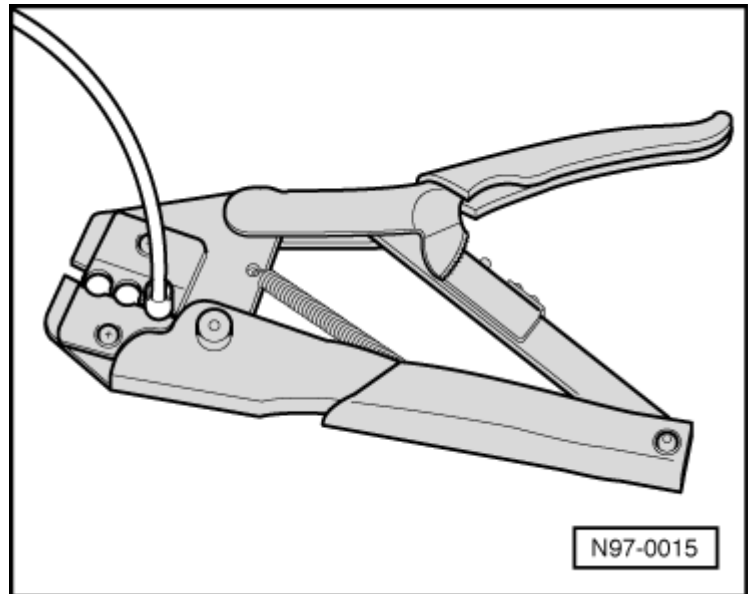


- Use crimping pliers -VAS 1978/1- to crimp the crimp connector with the "yellow" crimp

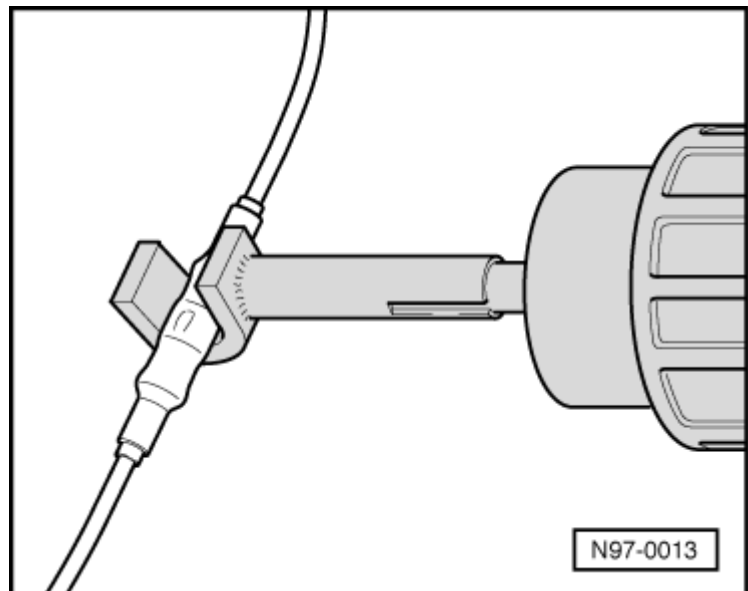
recesses on both sides.

**Note**

- ◆ *Make sure that the insert for crimping pliers -VAS 1978/2- has been inserted in the crimping pliers.*
- ◆ *Take care not to crimp insulation of wire ends.*



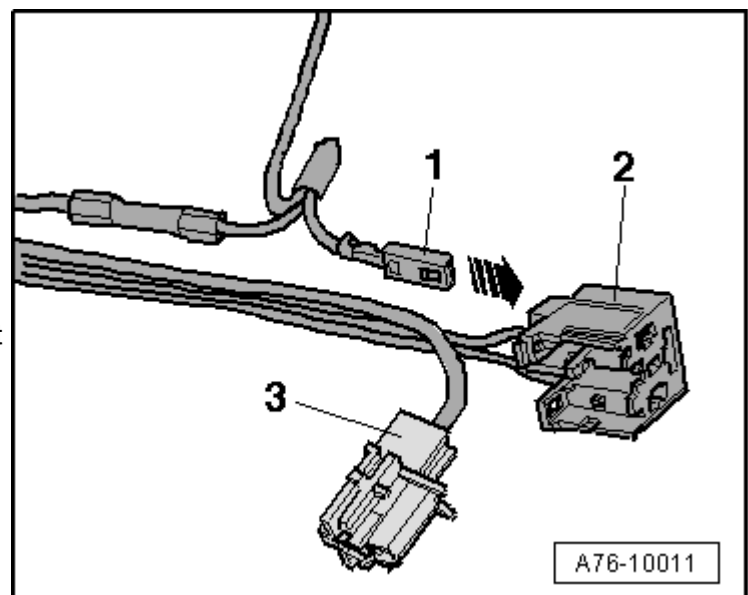
- After crimping you must use hot-air blower -VAS 1978/14- and shrink element -VAS 1978/15- to shrink the crimp connector.
- Crimp connector must be heated working outwards from the centre, until it is completely sealed and adhesive begins to emerge.
- Set hot-air blower to appropriate temperature as specified in operating instructions.
- When shrinking, make sure you do not damage any other wires, plastic parts or insulating material with the hot nozzle.



- Plug wide connector -1- of Y wire into lower section of relay socket -2-. You should hear it click into place.
- Check that it is correctly engaged by pulling lightly on the electrical wire.
- Connect the lower and upper sections of the relay socket -3-, making sure that they click into place.
- Check that the two parts of the relay socket are correctly engaged.

**Note**

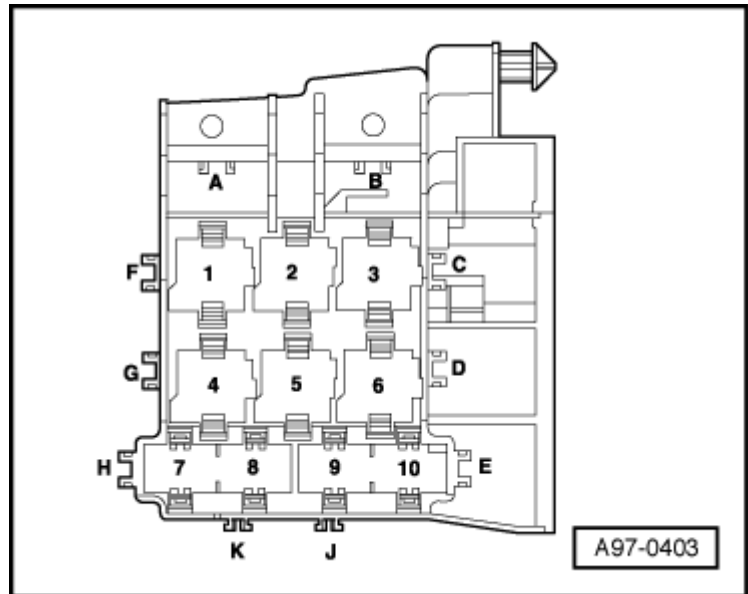
*Wrap the felt strip from the repair set around the vehicle wiring harness in the area of the crimp connector and the splice point on the Y wire.*



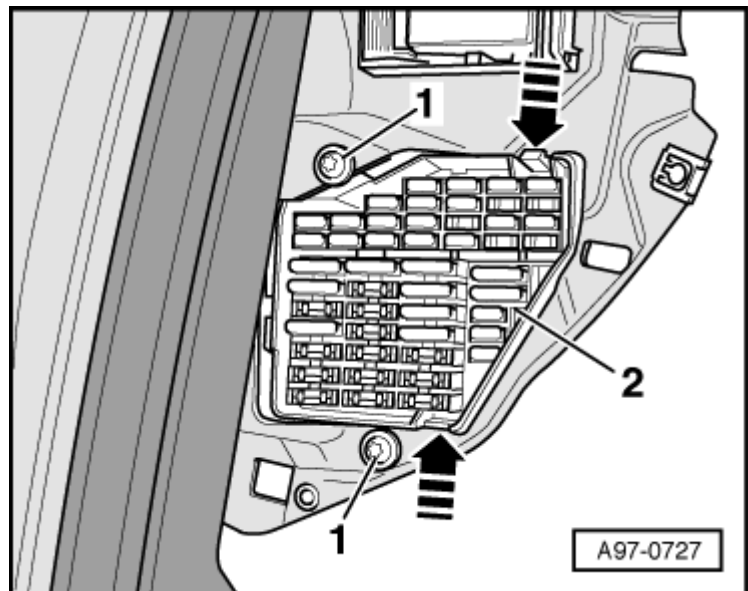
- Clip relay socket into position 6 of relay and fuse holder behind dash panel (left-

side).

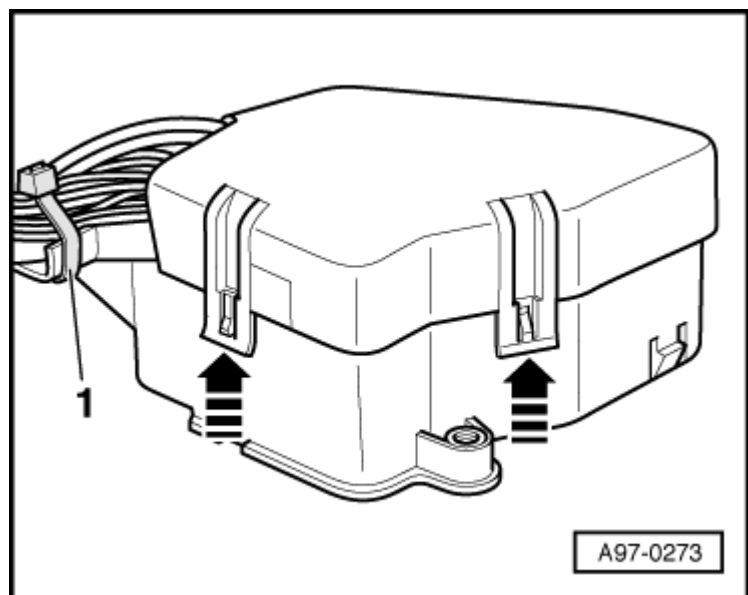
- Fit terminal 75 voltage supply relay 1 - J680- onto relay socket.



- Unscrew bolts -1- on fuse holder -2-.
- Release retaining tabs -arrows- and detach fuse holder from central tube for dash panel.

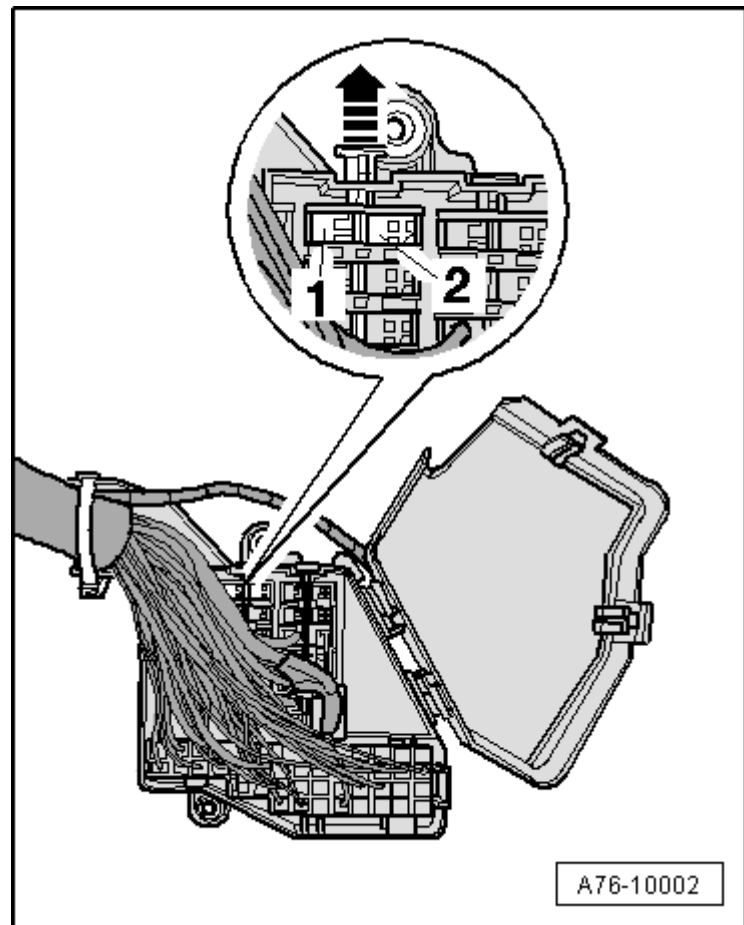


- Cut open cable tie -1-.
- Release cover for fuse holder -arrows-.

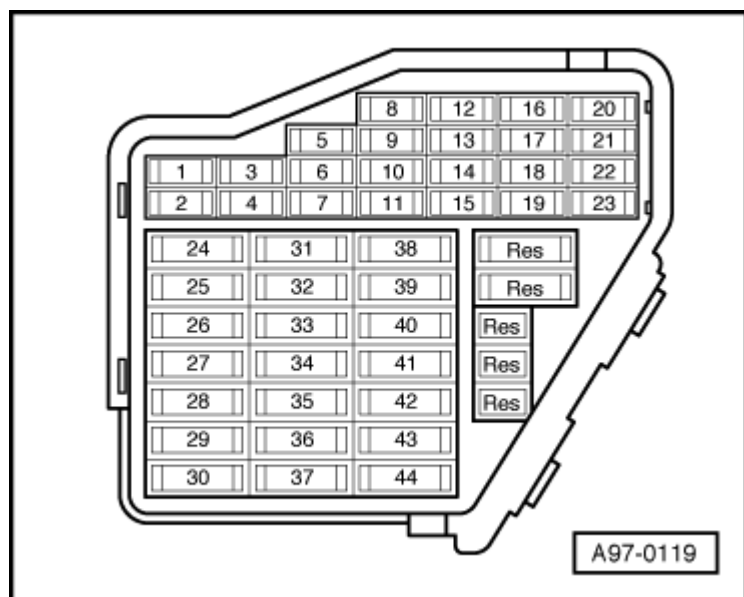


- Release retaining strip for electrical connectors in direction of the -arrow-

- Connect the free connector tabs of the vehicle wiring harness and the wiring harness for coolbox to the fuse holder as follows:
  - Position 37, contact -1-: wiring harness for coolbox
  - Position 37, contact -2-: Y wire for coolbox
- Lock retaining strip for electrical connectors in place.



- Attach fuse holder to central tube for dash panel.
- Fit a 10 A fuse in position 37.



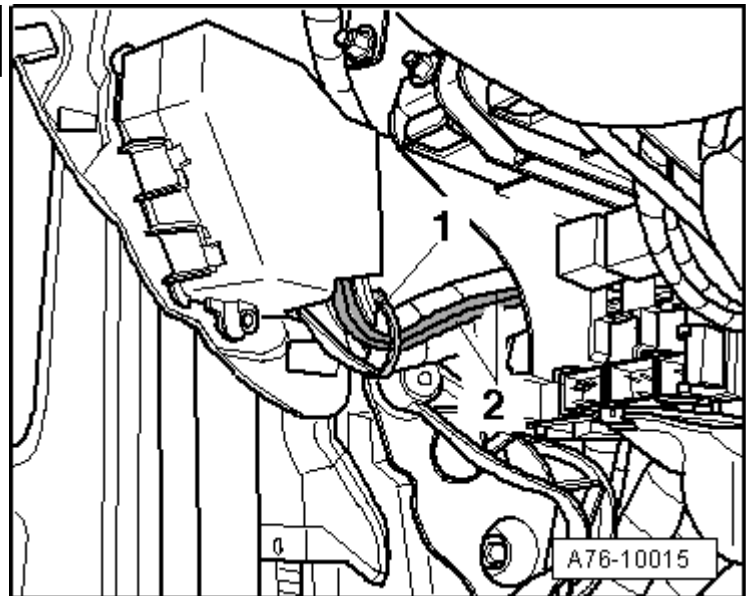
- Secure the electrical wires -2- you routed earlier to the wiring harness leading to the fuse holder using a cable tie -1- from the repair kit.

**⚠ Caution**

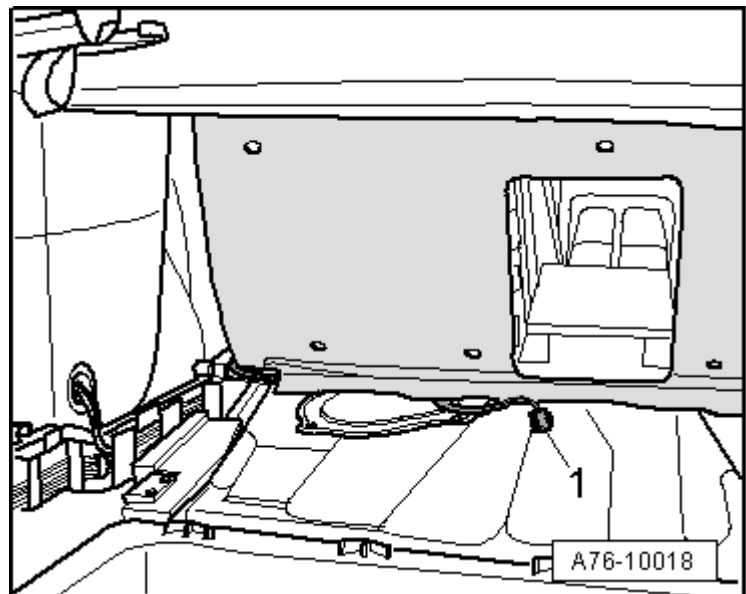
- ◆ **Make sure the wires for the coolbox are routed carefully, to avoid chafing and rattling.**
- ◆ **Use the remaining cable ties to route**

**the wires correctly.**

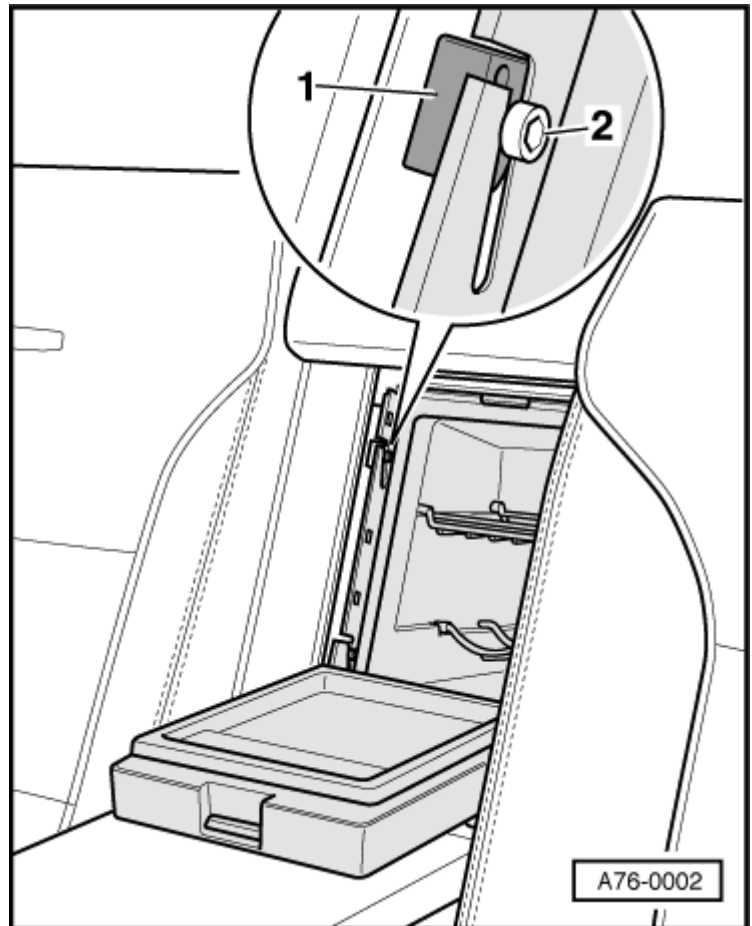
- Install trim for B-pillar (bottom) → General body repairs, interior; Rep. Gr.70.
- Install trim for A-pillar (bottom) → General body repairs, interior; Rep. Gr.70.
- Install trim for C-pillar (bottom) → General body repairs, interior; Rep. Gr.70.



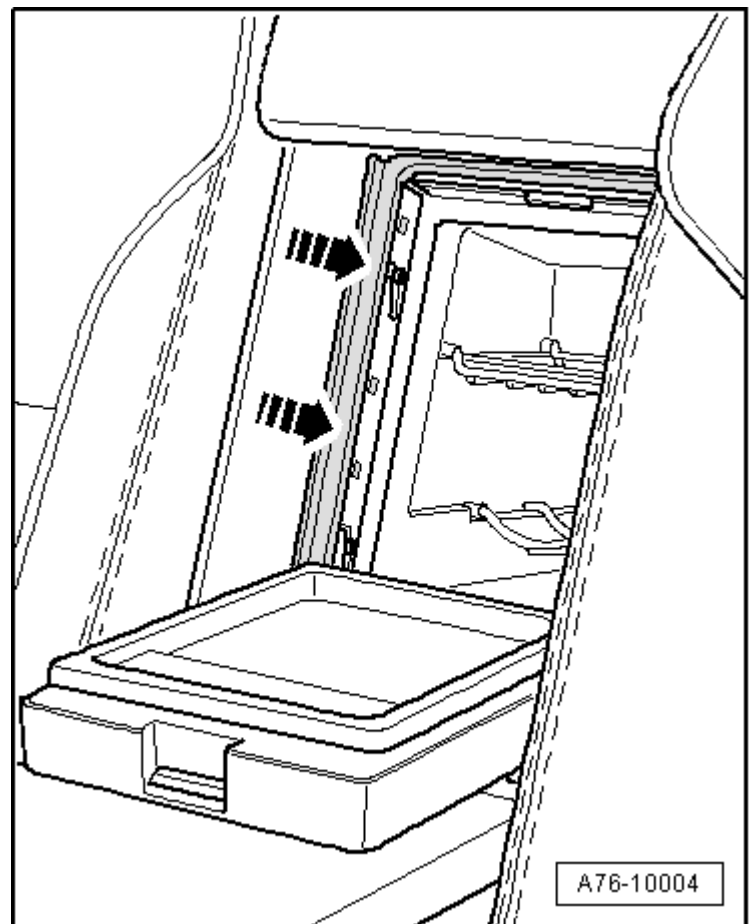
- Route wiring -1- for coolbox underneath trim for back panel of luggage compartment as shown in illustration.
- Install luggage compartment side trim → General body repairs, interior; Rep. Gr.70.
- Install rear cross panel trim → General body repairs, interior; Rep. Gr.70.
- Install luggage compartment floor covering → General body repairs, interior; Rep. Gr.70.



- Align coolbox in its installation position.
- Open coolbox.
- Insert clamps -1- with bolts -2- screwed in into guide on coolbox.
- Slide clamps downwards slightly.
- Pull coolbox towards rear seat backrest and slide clamps downwards as far as possible.
- Tighten bolts.

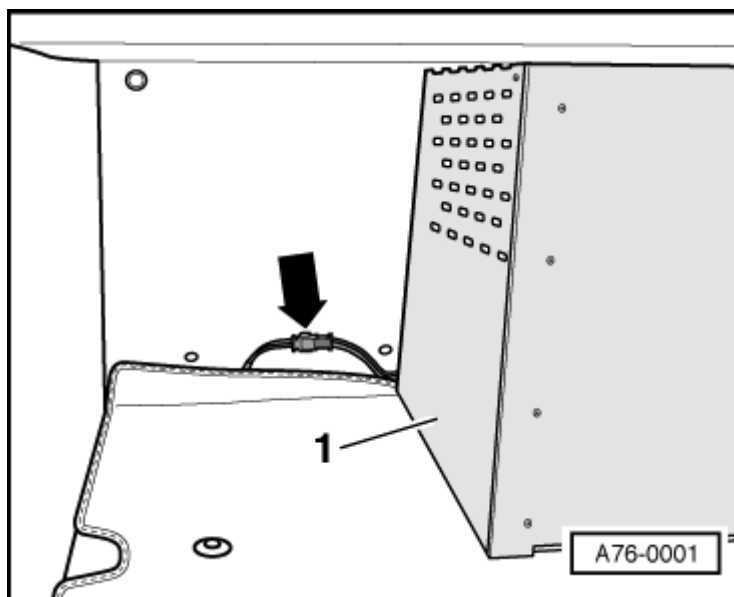


- Install trim frame for coolbox, pressing it on carefully -arrows-.



- Attach electrical connector -arrow- between wiring harness and coolbox.
- Push electrical connector underneath the luggage compartment floor covering.
- Carry out measures to be taken after connecting the battery → [Electrical system](#); [Rep. Gr.27](#).

#### Tightening torques



| Component                                  | Nm |
|--|----|
| Earth wire to body                         | 9  |
| Fuse holder to central tube for dash panel | 3  |
| Clamp to coolbox                           | 4  |