

Instructions for installing a Retrofit Cruise Control System to a Transporter T5 GP

Please ensure you DO NOT have a 086 BCM.

Due to the relay carrier [J329] on RHD vehicles being moved to near the BCM & the loom will not reach the fuse box, please use a fuse holder.

Use the relay shown on the far right [number shown may differ]

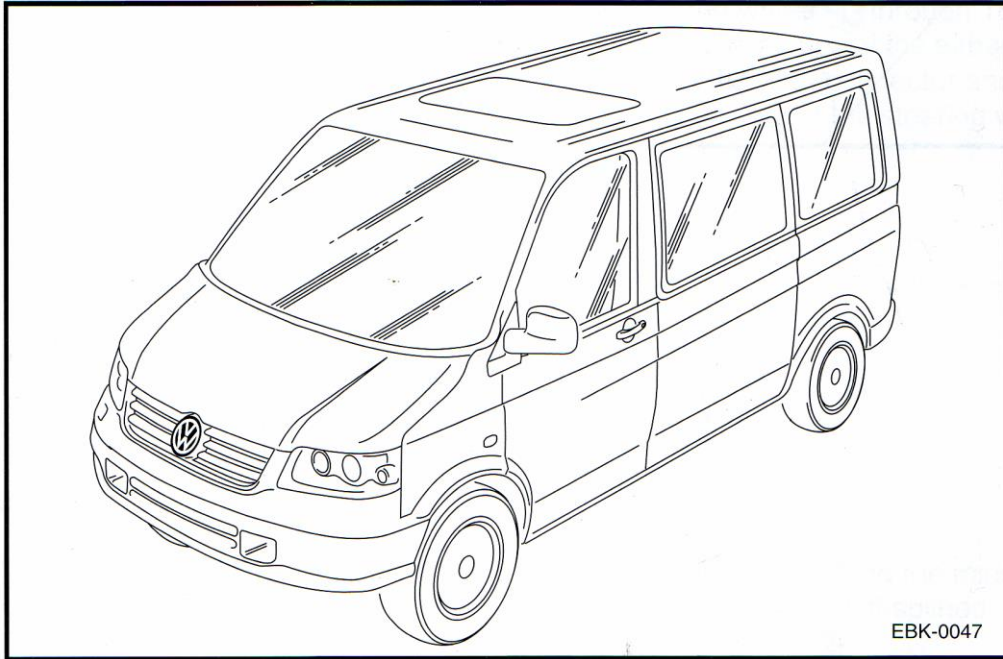


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Installation description for retrofitting a cruise control system in the Transporter T5 from 2010

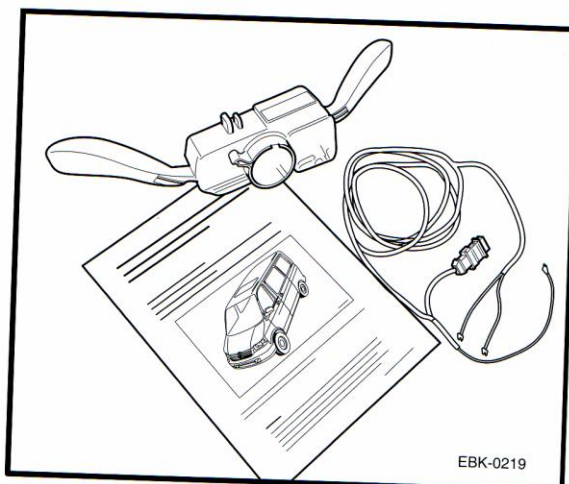


Note:

In view of the applicable safety regulations in the handling of airbag components, this retrofit kit may only be installed in a partnerworkshop of Volkswagen AG.

Modifications are necessary to the engine controller and on-board network controller.

These also have to be carried out in a partner workshop of Volkswagen AG.



Contents of the retrofit kit:

- 1 pc. steering column combination lock
- 1 pc. wiring loom for cruise control
- 1 pc. connector housing
- 1 pc. installation description
- 1 pc. fuse 5 A

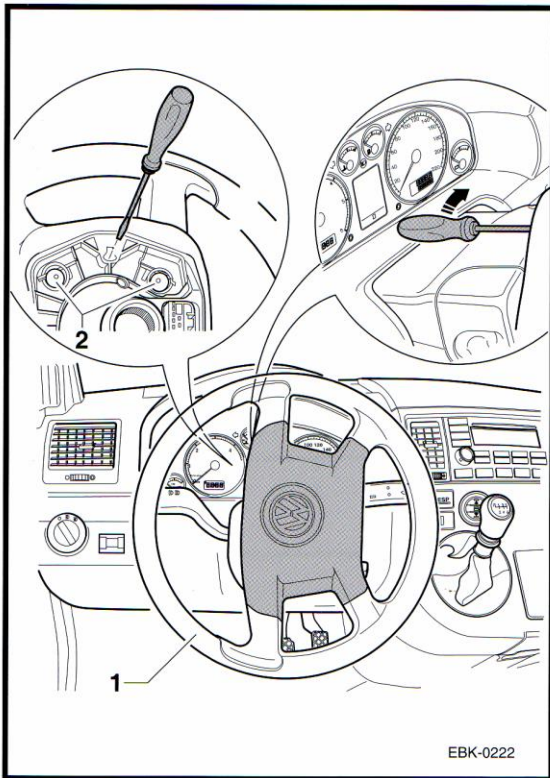
Required special tools, operating equipment, test and measuring equipment, as well as auxiliary material

- Repair Guideline Electrical System
- Repair Guideline Body Installation Work Interior
- Torque wrench V.A.G 1332
- Cable harness repair set VAS 1978 B
- Vehicle diagnosis, testing and information system VAS 5051A or VAS 5051B
- Removal wedge -3409- or -T10039/1-
- Electric drill with 10 mm drill

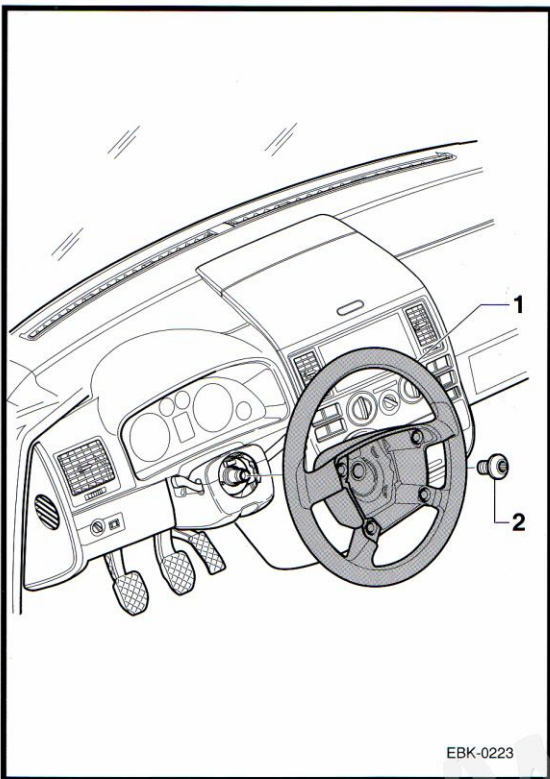
Carry out the following operations:

Note:

- *For the following work steps, be sure to follow the Repair Guideline Body Installation Work Interior and Repair Guideline Electrical System.*
- *Note the battery code before disconnecting the battery.*



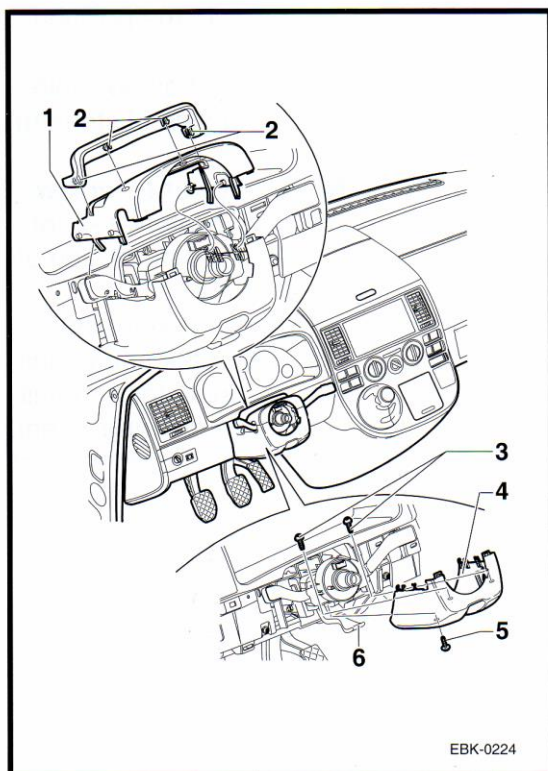
- Turn steering wheel **-1-** to the position shown.
- Insert a screwdriver as far as possible into the hole on the rear side of steering wheel **-1-**.
- Push the screwdriver upwards **-arrow-**. This disengages the two latches **-2-** of the airbag unit on the right-hand side of the steering wheel.
- Turn steering wheel **-1-** through 180°.
- Disengage the latches of the airbag unit.
- Disconnect the plug connector and pull the airbag unit out of the steering wheel.



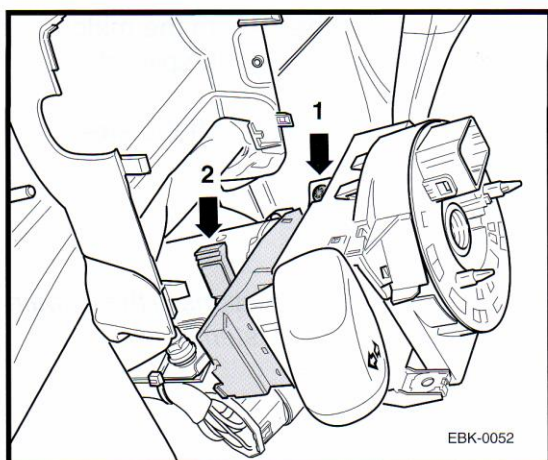
- Turn steering wheel **-1-** to the middle position and loosen multi-splined socket-head screw **-2-**.
- Pull the steering wheel off the steering column.

Note:

Please follow the instructions in the Repair Guideline Electrical System.

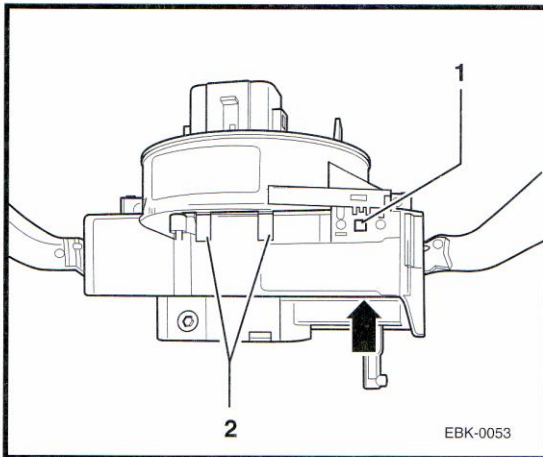


- Unclip cladding **-1-** from cladding **-4-** and pull off upwards.
- Release the 4 latches **-2-** of the gap cladding and unclip the gap cladding from the upper steering column cladding **-1-**.
- Remove upper steering column cladding **-1-**.
- Loosen the 2 bolts **-3-** (1.5 Nm) and bolt **-5-** (3.5 Nm).
- Release steering column locking lever **-6-** and pull out lower cladding **-4-** towards the driver's seat.

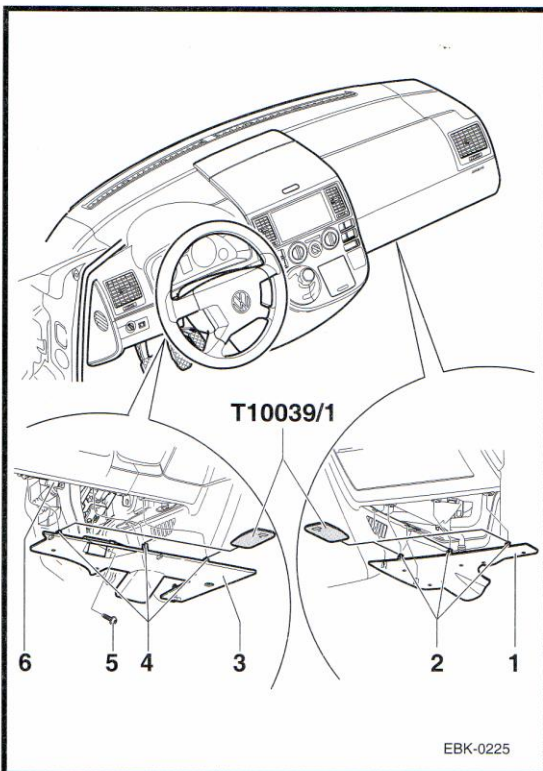


- Loosen bolt **-arrow 1-** and then unlock connector housing **-arrow 2-**.
- Pull the steering column switch off the steering column.

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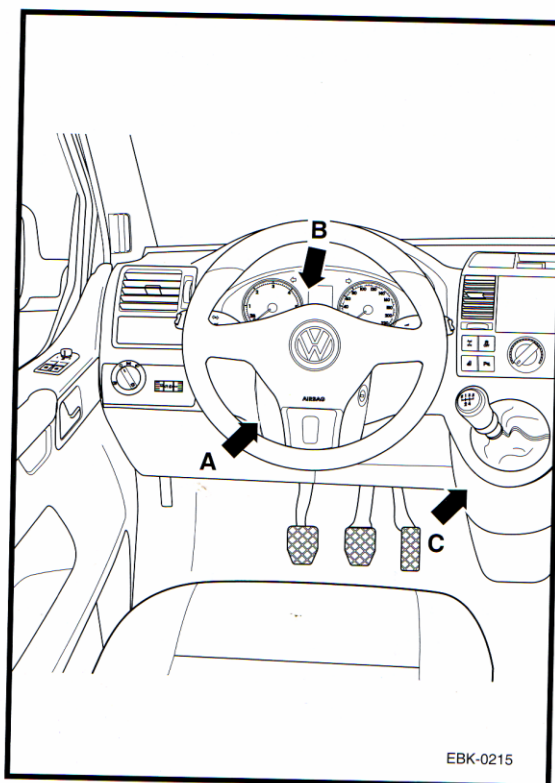
- To open the latch, push a small screwdriver into the flat opening on the steering column switch **-arrow-** and carefully release the latch **-1-**.
- Release the 2 latches on both sides **-2-** (4 in total) and remove the return ring for the airbag.
- Install the return ring for the airbag on the new steering column switch (in scope of supply).



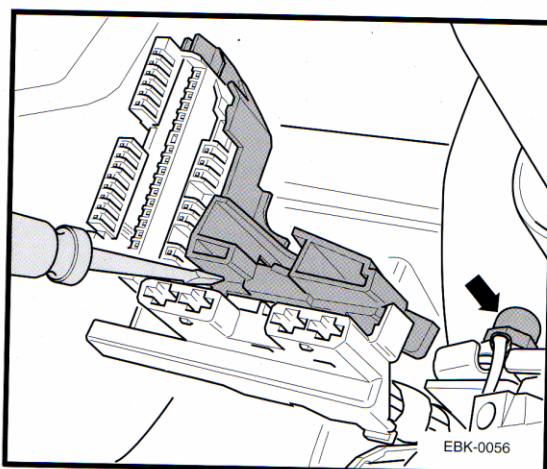
- Lever the cover in the passenger footwell **-1-** out of the retainers in the area of clamps **-2-** using assembly wedge **-T10039/1-**.
- Pull cover **-1-** out of the rear retainers.
- Loosen screw **-5-** (1.5 Nm) of diagnostic plug **-6-**.
- Lever the cover in the driver's footwell **-3-** out of the retainers in the area of clamps **-4-** using assembly wedge **-T10039/1-** and remove the cover.

Note:

The further removal procedure depends on the vehicle configuration. Please follow the work steps in the Repair Guideline Body Installation Work Interior (chapter 68).



- Lay the cruise control cable harness along steering column **-arrow A-** (see diagram EBK-0216, page 8), behind instrument cluster **-arrow B-** (see diagram EBK-0218, page 7) to the power supply relay of terminal 15 -J329-, in the middle of instrument panel **-arrow C-** (see EBK-0217, page 8).

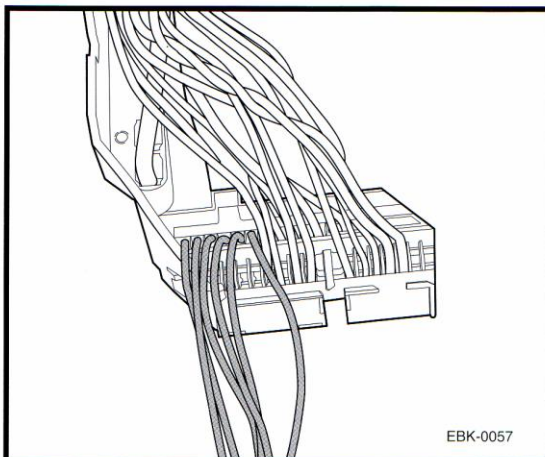


- Release the secondary latch of the plug connector for the steering column combination switch using a screwdriver.

Note:

The ground lead **-arrow-** can be disconnected to allow more space for working.

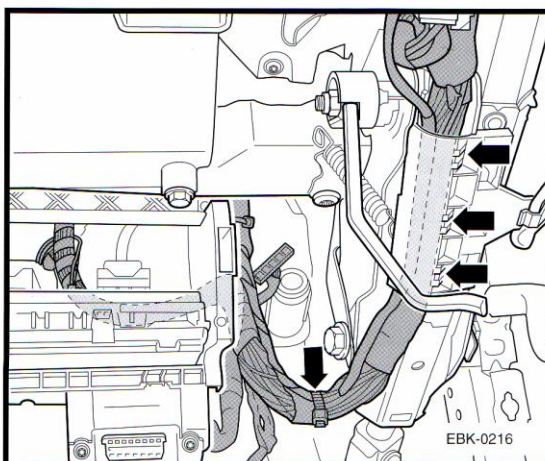
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- Plug the leads of the cruise control cable harness into the chambers of the plug connector for the steering column combination switch as listed below:

Contacts:

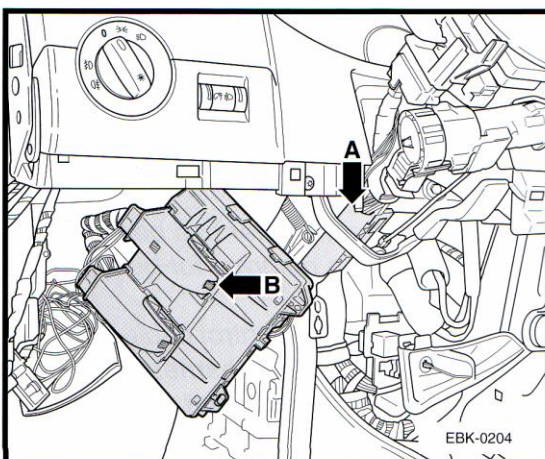
- | | |
|----------------|-------------------|
| • black-yellow | Chamber 26 |
| • white | Chamber 27 |
| • black-blue | Chamber 28 |
| • black-yellow | Chamber 29 |
| • blue | Chamber 31 |
| • red-yellow | Chamber 30 |



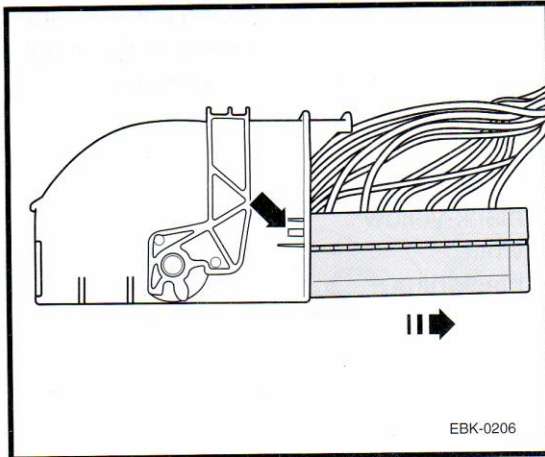
- Open the latches of the cable guide **-arrows-**.
- Lay the cruise control cable harness into the cable guide of the steering column kink-free so that it cannot rub on the column.

Note:

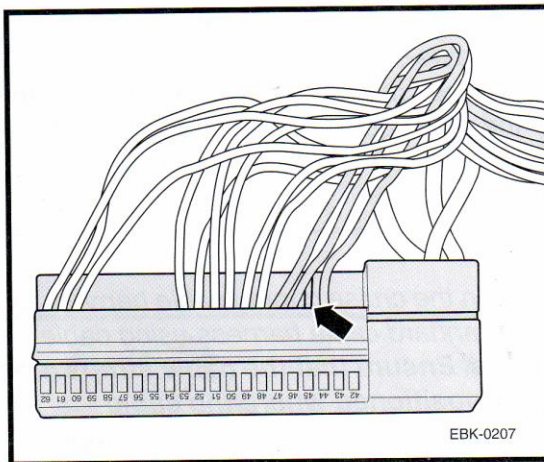
*Fasten the cruise control cable harness to the standard cable harness using cable straps. **Ensure that the cable straps are only positioned where the cable harness is wrapped with fabric tape.***



- Loosen relay carrier and place to one side.
- Loosen on-board controller -J519- from the latch and pull out to the front.
- Release latch on plug (white) for on-board controller and pull plug (white) out of the on-board controller.



- Loosen plug contact housing using a small screwdriver **-arrow-**.
- Pull plug contact housing out of connector housing in **-direction of arrow-**.

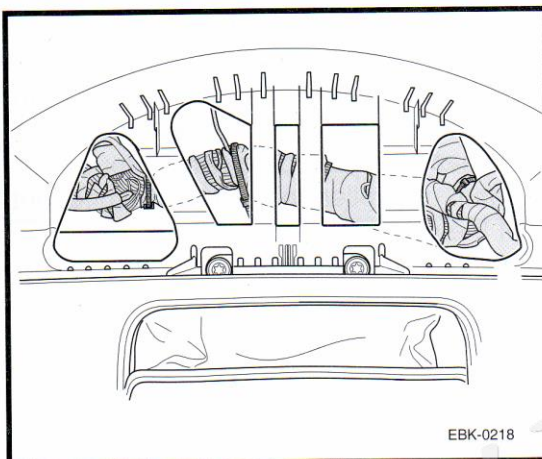


- Plug leads into the following chambers:

Contacts:

- | | |
|----------------|-------------------|
| • red-yellow | Chamber 44 |
| • black-yellow | Chamber 45 |
| • blue | Chamber 46 |
| • white | Chamber 47 |

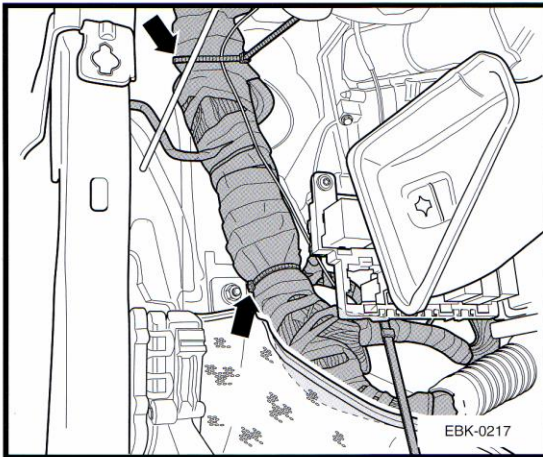
- After connecting the plug contacts, push plug contact housing into connector housing again and plug into on-board controller **-J519-**.



- Lay cruise control cable harness along the standard cable harness behind the instrument cluster kink-free and so that it cannot rub.

Notes:

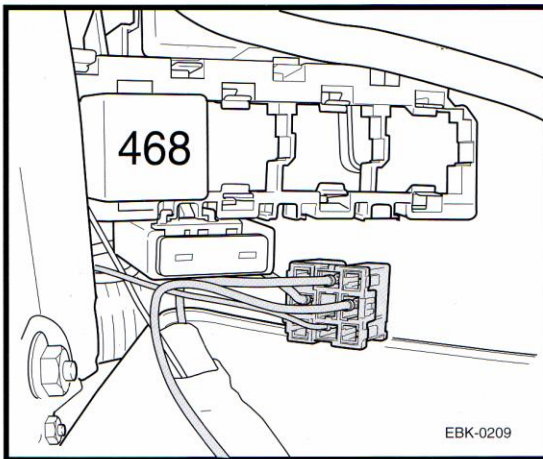
- The instrument cluster has been removed in the diagram for better illustration.
- Fasten the cruise control cable harness to the standard cable harness using cable straps. **Ensure that the cable straps are only positioned where the cable harness is wrapped with fabric tape.**



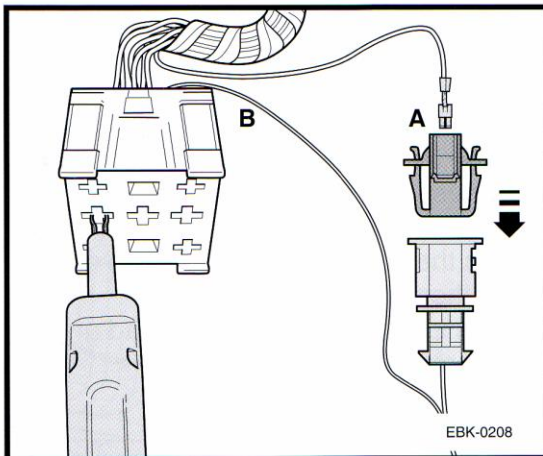
- Lay cruise control cable harness along the standard cable harness to the relay for the power supply to terminal 15 -J329- in the area of the centre instrument panel kink-free and so that it cannot rub.

Note:

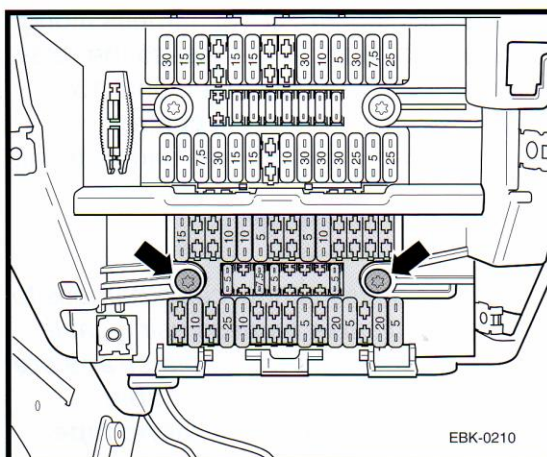
*Fasten the cruise control cable harness to the standard cable harness using cable straps. **Ensure that the cable straps are only positioned where the cable harness is wrapped with fabric tape.***



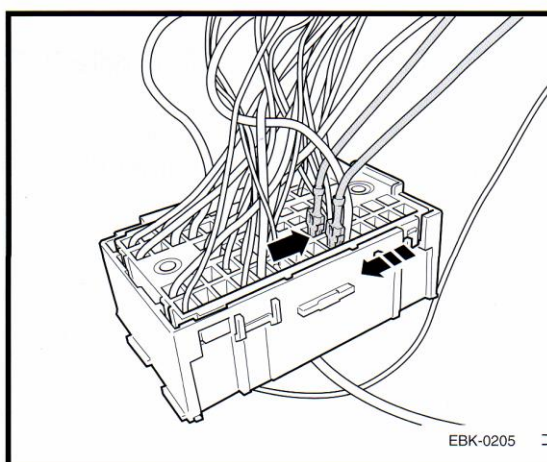
- Release relay carrier under middle of instrument panel.
- Pull out relay for power supply to terminal 15 -J329- (relay carrier (2) cockpit, slot 3).
- Unclip relay base to the rear.



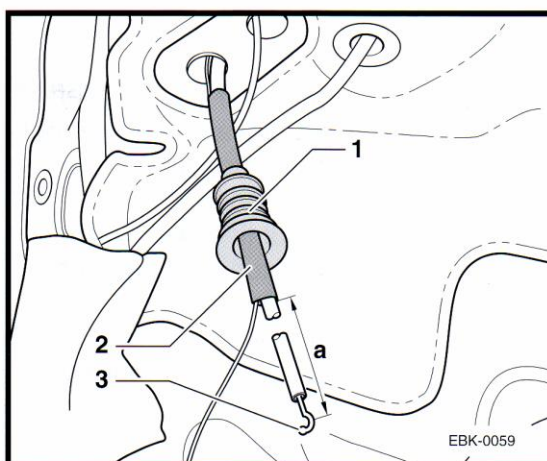
- Press cable of chamber 8 out of the relay base using a suitable pusher tool.
- Insert lead -B- of the supplied cable harness into chamber -8-.
- Plug the pushed-out line -A- into the connector housing supplied and push the plug connector together.
- Assembly is performed analogously in the reverse sequence.



- Loosen the bolts **-arrows-**.
- Pull the fuse holder out of the instrument panel from the rear.

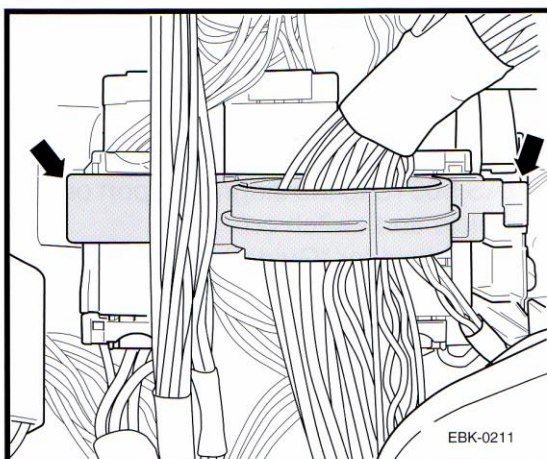


- Release the secondary lock by pulling/ pushing in **-the direction of the arrow-**.
- Insert the black lead of the cable harness supplied into row **A** of chamber **9 -arrow-**.
- Insert the black-blue lead into row **B** of chamber **9 -arrow-**.
- Fasten the secondary lock.
- Insert the fuse holder into the instrument panel again.
- Insert a 5 A fuse into fuse socket SC9.

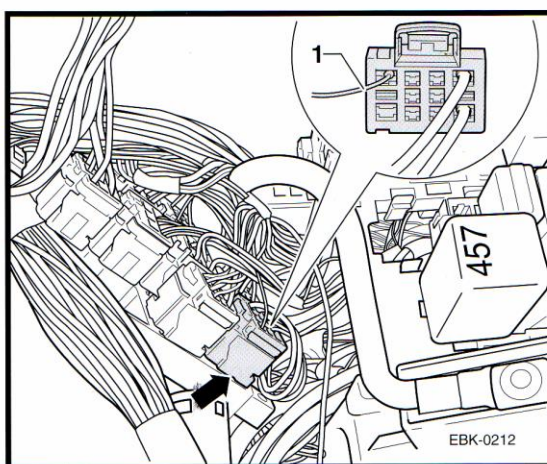


- Loosen the Bowden cable for the hood release inside the vehicle and pull grommet **-1-** out of the bulkhead.
- Remove grommet from black-yellow cruise control lead.
- Fit an approx. 8 cm long shrink hose **-2-** to the black-yellow cruise control cable harness and Bowden cable.
- Position shrink hose **-2-** approx. 4 cm **-a-** from the leading end of Bowden cable **-3-**, then shrink completely.
- Then install Bowden cable, lead and grommet **-1-** again.

- Remove battery and battery bracket from engine compartment.
- Remove E-box cover in engine compartment left.



- Fix cruise control cable harness in the engine compartment with cable straps kink-free and so that it does not rub.
- Pull coupling point bracket in area of **-arrows-** up out of the bracket.

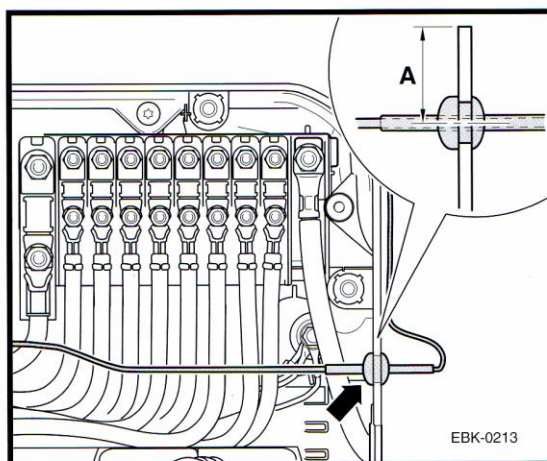


- Separate plug connector T10 **-arrow-**.

Note:

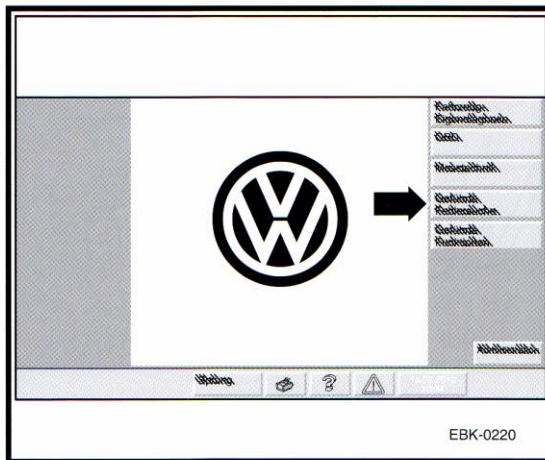
There are 2 black connector housings in the E-box. Risk of confusion!

- Insert black-yellow cruise control lead **-1-** into chamber 1.
- Assembly is performed analogously in the reverse sequence.



- Below the screw retainers on the left-hand side of the E-box, drill a hole with a diameter of 10 mm at a distance **-A-** of 20 mm from the top.
- Pull the grommet off the cruise control lead and lay through the bore **-arrow-** kink-free and so that it does not rub.
- Push the grommet onto the cruise control lead again.

Activate cruise control with vehicle diagnostic system

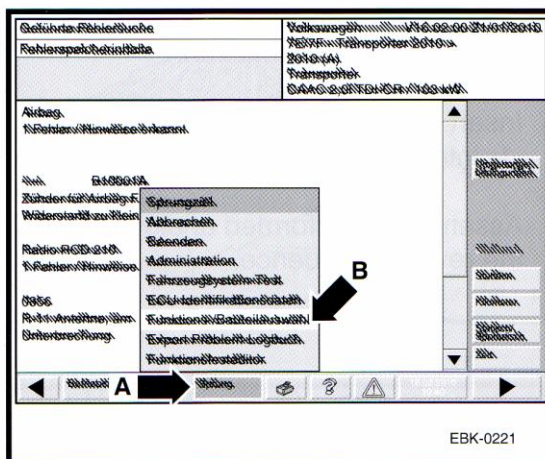


Test precondition:

- Connect vehicle diagnostic system VAS 5051B to the diagnostic port on the vehicle and switch on.
- Select field for "Guided troubleshooting" **-arrow-**.

Follow menu prompts of the vehicle diagnostic system:

- Select vehicle model.
- Perform the vehicle system test.
- Perform function test.
- Read out error memory contents.



- Select field **-arrow A-** "Jump".
- Select "Function/component selection" **-arrow B-** on the monitor.
- Open menu item "Software version management".
- Select "Adapt software".
- Under Service42 point **3**, confirm "Modification/retrofit solution" for the function description with field **3** to enter the measure code.
- Enter function description **"09"** via fields 0-9 and confirm with **"Q"**.
- Enter user name and password.
- Follow menu prompts of the vehicle diagnostic system.

Notes:

- **The task code is always provided on the Volkswagen NFZ ServiceNet.**
- After activation of the cruise control, carry out a test run (e.g. check the deactivation of the cruise control when the clutch pedal or brake pedal is pressed).