EBA 054 634 F

Fitting Instructions

Genuine retrofit reversing camera system

Items supplied:
- 1 x tilting emblem for reversing camera -R189- (only Polo)
- 1 x handle button with reversing camera (only T-cross
- 1 x wiring set
- Various fitting material

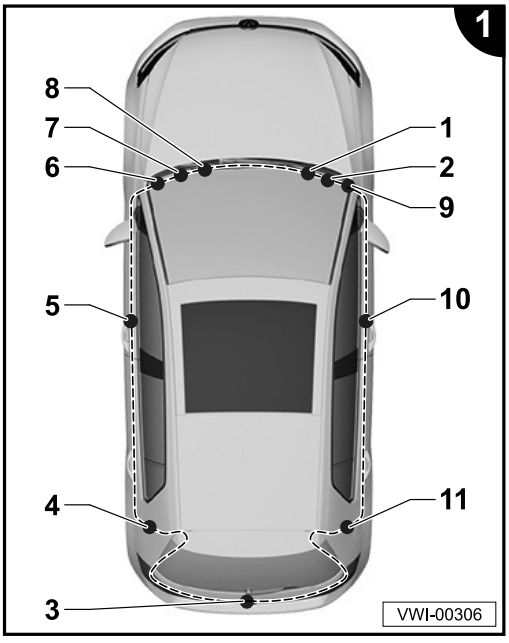
Special tools, testers, measuring instruments and auxiliary items required:
- Wiring harness repair set -VAS 1978-
- Vehicle diagnostic tester with ODIS service
- Cleaning and insertion aid -VAS 6620-
- Battery charger -VAS 590X-

Procedure:

Note
- The installation of the reversing camera system must be carried out by a specialist workshop. Special tools are required for the installation along with vehicle specific literature. An incorrect installation can cause serious damage to the vehicle and/or the components supplied.
- The work procedures described in the Fitting instructions may require revising, for example, due to a Model upgrading program. This could mean that the wiring colour coding and/or the fitting location are revised. Therefore always refer to the current wiring diagram and/or the respective workshop manual for the model.
- All the wiring must be secured so that it cannot come into contact with moving components of the vehicle and that it cannot rub against or contact sharp edges.
- The original German version is always the definitive document. No liability is accepted for translation errors. Changes and amendments to technical specifications is reserved.

Assembly overview (Figure 1, Illustration of principle)

1 - Information electronics control unit -J794- (left-hand drive vehicle)
• Video line connection of supplied wiring set
2 - Relay and fuse holder (right-hand drive vehicle)
• Connection point for voltage supply
3 - Opening item for rear lid with reversing camera -R189-
• Items supplied
4 - Coupling point above wheel housing (interior) (only Polo to 24/2021 and T-Cross)
5 - Wiring set (only Polo to 24/2021 and T-Cross)
• Items supplied
6 - Onboard supply control unit -J519- (left-hand drive vehicle)
• Signal line connection of supplied wiring set
7 - Relay and fuse holder (left-hand drive vehicle)
• Connection point for voltage supply
8 - Information electronics control unit -J794- (right-hand drive vehicle)
• Video line connection of supplied wiring set
9 - Onboard supply control unit -J519- (right-hand drive vehicle)
• Signal line connection of supplied wiring set
10 - Wiring set (only Polo from 25/2021)
• Items supplied
11 - Coupling point above wheel housing (interior) (only Polo from 25/2021)



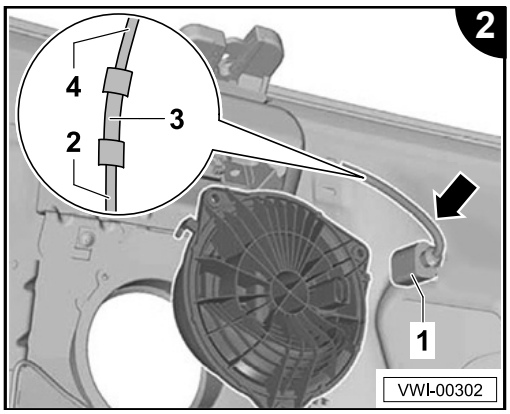
Preparatory work on vehicle

ⓘ **Note**
It is essential to ensure that the current version of ODIS Service is used on the vehicle diagnostic tester when changing the vehicle configuration (see "Special tools, testers, measuring instruments and auxiliary items required").

– With the ignition switched off, connect the vehicle diagnosis tester with ODIS Service to the vehicle diagnosis connection.
– Switch on ignition.
– Carry out online update coding of all relevant control units:
  • 5F Information electronics
  • 76 Parking aid
  • 19 Gateway
– Switch off ignition.
– Disconnect vehicle diagnostic tester.
– Disconnect battery.
– Remove trim panel(s) for rear lid => ELSA; Repair group 70.
– Remove luggage compartment cover from vehicle => ELSA; Repair group 70.
– Remove roof end strip => ELSA; Repair group 70.
– Lower/open moulded headliner in area of cable feed-through to gain access to body => ELSA; Repair group 70.
– Remove D-pillar trim panel(s) => ELSA; Repair group 70.
– Remove luggage compartment side panel(s) on side => ELSA; Repair group 70.
– Remove entry strips => ELSA; Repair group 70.
– Remove A-pillar lower trim => ELSA; Repair group 70.
– Remove information electronics control unit => ELSA; Repair group 91.
– Move glove compartment lid to service position => ELSA; Repair group 68.
– Remove dash panel cover on driver side => ELSA; Repair group 68.
– Lower relay and fuse holder behind dash panel => ELSA; Repair group 97.
  • The relay and fuse holder behind dash panel must only be lowered to connect wiring and there is no requirement to completely remove it. The removal of the dash panel is not necessary.

Only Polo:

Figure 2



– Remove opening item for rear lid with no reversing camera => ELSA; Repair group 55.
– Install tilting emblem with reversing camera -R189- => ELSA; Repair group 55.
– Cut through vehicle wiring -arrow- just before the connector -1-.
– Remove approx. 30 mm of the wiring wrapping.
– Remove insulation from both wire ends (black/red and brown).
– Connect stripped ends of black/red individual wire -2- to black/red individual wire -4- of wiring set using a heat shrink crimp connector -3- from the items supplied.
– Repeat work step for stripped end of individual brown wire.
– Heat heat shrink crimp connector -3- using hot air blower from wiring harness repair -VAS 1978- until insulation shrinks.

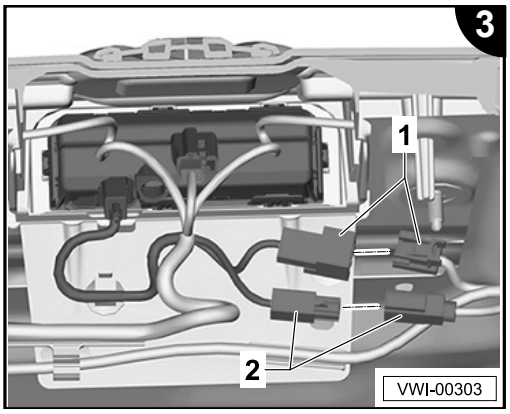
Only T-cross

– Remove opening item for rear lid with no reversing camera => ELSA; Repair group 55.
– Install reversing camera -R189- => ELSA; Repair group 55.

Routing and connecting wiring set in rear lid

Figure 3

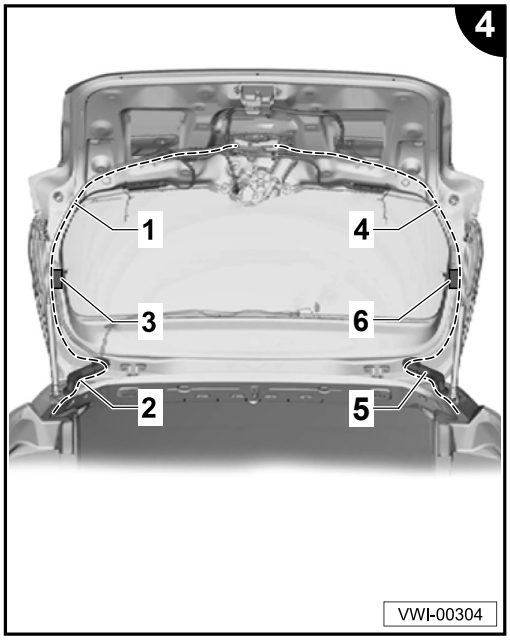
– Connect vehicle side connectors -1- and -2- to handle button with reversing camera.
– Engage connector -2- in coupling carrier (green). Secure both connectors on body.



Continuation for all vehicles:

Figure 4

– Route wiring -1- (-4-) through beam/strut to rear lid rubber grommet -2- (-5-). For easier installation, remove the housing of the rear window heater -3- (-6-).
– Pull wiring through the grommet -2- (-5-) of the rear lid using the cleaning and insertion aid -VAS 6620-.
– Route wiring along D-pillar to wheel housing coupling point and secure to vehicle wiring or vehicle retainers using cable ties from the items supplied.



Note
The wiring -1- (-4-) must be secured so that the wiring is sufficiently protected in the area of the rear lid cable feed-through.

Wheel housing coupling point

Only Polo to 24/2021 and T-Cross:

Figure 5

– Engage red/yellow wire connector contact in chamber 5 of supplied blue connector.
– Engage black/blue wire connector contact in chamber 6.
– Engage brown wire connector contact in chamber 7.

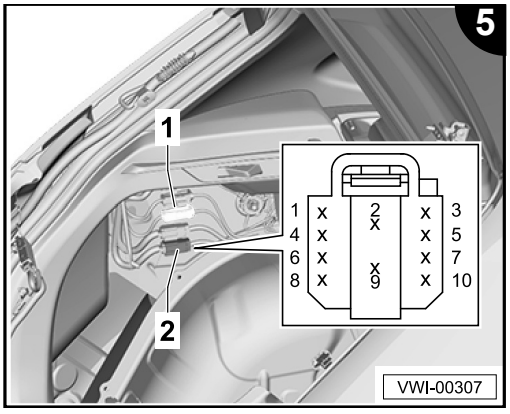
Only Polo from 25/2021:

– Engage red/yellow wire connector contact in chamber 5 of supplied blue connector.
– Engage black/blue wire connector contact in chamber 8.
– Engage brown wire connector contact in chamber 10.

The same pin assignment is carried out with blue mating connector on vehicle side.

Continuation for all vehicles:

– Connect coupling point -1- (white) together as shown in fig. 5 and engage in coupling point carrier (green).
– Connect coupling point -2- (blue) together and engage in coupling point carrier.
– Route wiring further along sill in area of A-pillar and secure to vehicle wiring or vehicle retainers using cable ties from the items supplied.
– Route wiring further in area of relay and fuse holder behind dash panel on driver side.

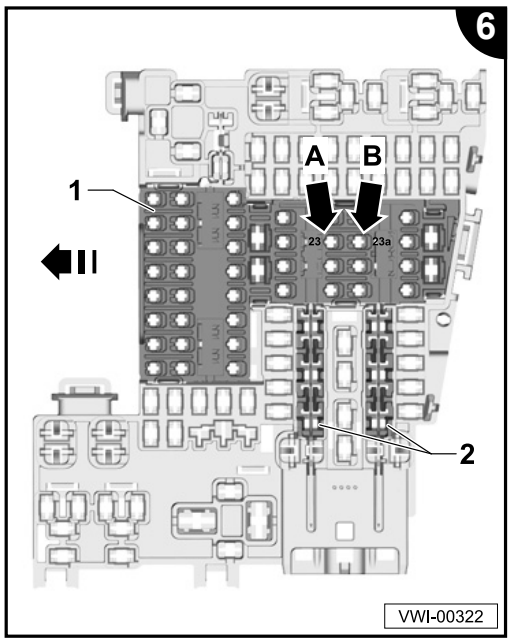


Principle illustration.

Connecting voltage supply to relay and fuse holder

Figure 6

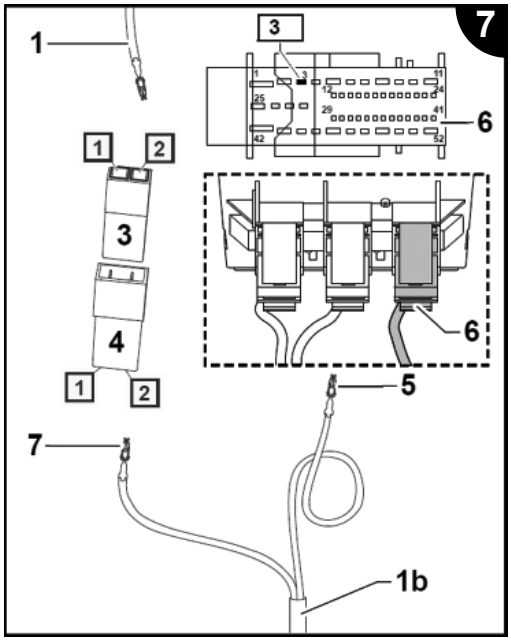
– Unlock the secondary locking device -1- on the side of the relay and fuse holder in the direction of the arrow.
– Engage red/yellow individual wire (camera voltage supply) in fuse holder F23 -arrow-.
– Engage red voltage supply wire in F23A and insert in a free connector position -2- 131 - 136.
– Lock the secondary locking device -1- on the side of the relay and fuse holder.
– Insert fuse, from items supplied, into fuse position “F23“.
– Route wiring further to onboard supply control unit -J519-.



Connecting reversing signal to onboard supply control unit -J519- (Connector C)

Figure 7

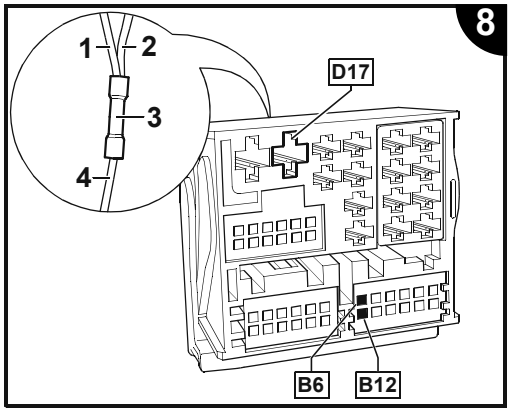
– Engage connector contact -7- of shorter black/blue wire in chamber 1 of supplied connector -4-.
– Push connector contact -1- of black/blue individual wire out of chamber 3 of connector -6- on black onboard supply control unit- J519- and engage it in chamber 1 of supplied connector -3-.
– Engage connector contact -5- of black/blue individual wire in chamber 3 of connector -6-.
– Connect connectors -3- and -4- together.
– Route wiring further to information electronics control unit -J794-.



Connecting earth connection/video signal to information electronics control unit -J794-

Figure 8

– Cut through brown wire of vehicle approx. 30 mm before chamber D17 and remove insulation from both wire ends.
– Connect wire ends -1- of brown wire together with brown individual wire -2- of wiring to heat shrink crimp connector -3-.
– Connect free wire end -4- of brown wire to heat shrink crimp connector -3-.
– Heat heat shrink crimp connector -3- using hot air blower from wiring harness repair -VAS 1978- until insulation shrinks.
– Engage white individual wire of wiring in chamber B6 of information electronics control unit connector.
– Engage black individual wire of wiring in chamber B12 of connector.



Finalising work and activating reversing camera

Reinstall all vehicle components in reverse order of removal => ELSA.

ⓘ **Note**
- Before testing it is essential to ensure that the current version of ODIS Service is used on the vehicle diagnostic tester and that the vehicle battery no load voltage is at least 12.5 volt. Connect a battery charger -VAS 590X- to maintain the onboard power supply during the process.
- The task code can only be entered once. Multiple call-ups without the respective request cause fault messages and have no consequences reference the configuration.

– With the ignition switched off, connect the vehicle diagnosis tester with ODIS Service to the vehicle diagnosis connection.
– Switch on ignition.
– Start vehicle diagnosis tester and select operating mode “Diagnostics“. Then identify the vehicle.
– After reading the fault memory, select the following menu points:

  • Special functions
  • Adapting software
  • -3- for “Carry out conversion/retrofit”

– Enter 5-character task code **38645** and “Accept“.

An online connection is created after entering the task code and a software adaption is carried out.
– After a successful activation of Infotainment system again Start - to restart depress the On/Off switch for longer than 10 seconds or await the Bus to idle.
– Exit diagnosis. All events in event memory will be deleted.
– Check function of reversing camera, => vehicle Owner's Manual.