



Installation Instructions:
Electrical System for Towing Hitch4

Westfalia	Seat	
344 044 300 153	ZGB 5P1 055 204	Seat Altea/Altea XL/Toledo/FreeTrack/RHD

Includes:

- 1 Socket wiring set, 12-core with pre-assembled socket
- 1 8-core cable set for connection to the vehicle electrical system
- 1 1-core cable set for power supply
- 1 Trailer connection unit incl. fitting material
- 1 13-pin socket incl. grommet & fitting material
- 1 50 A fuse link incl. fitting material
- 3 Flat pin fuses 15 A
- 1 Mini flat pin fuse 15 A
- 4 Foam cut-outs
- 2 Cable ties 300 mm long

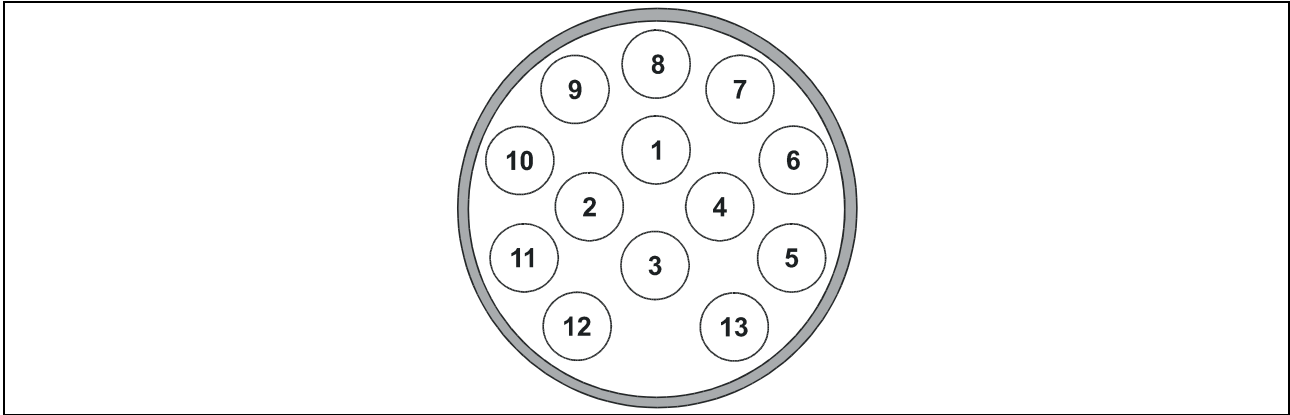
(D) Steckdosenbelegung

(F) Affectation de la prise de courant

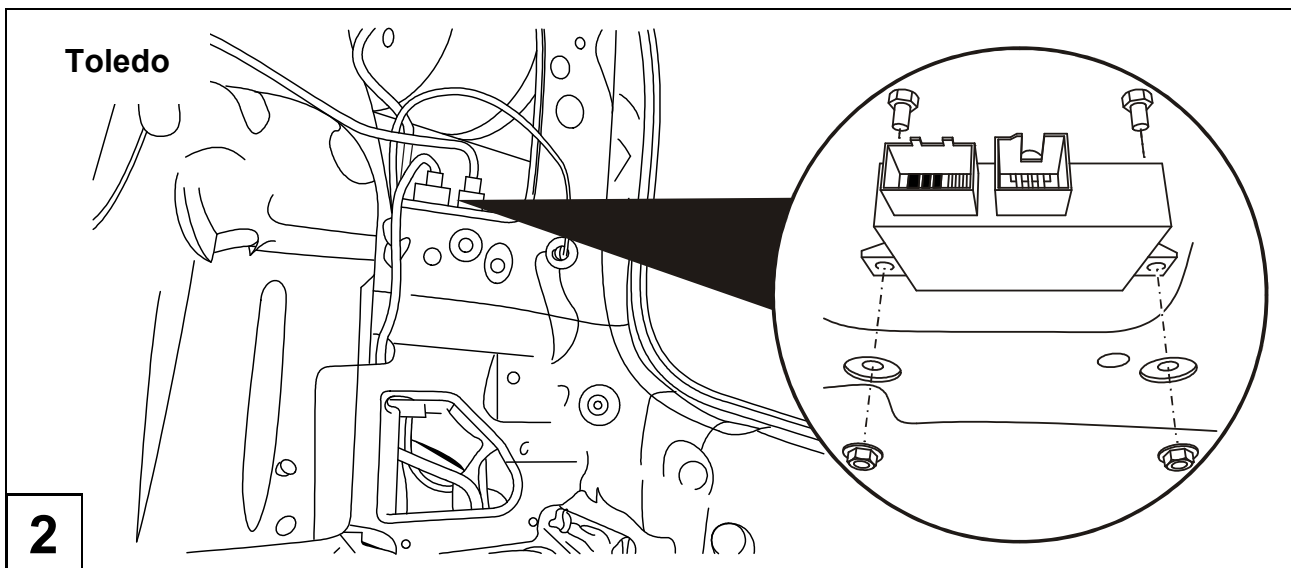
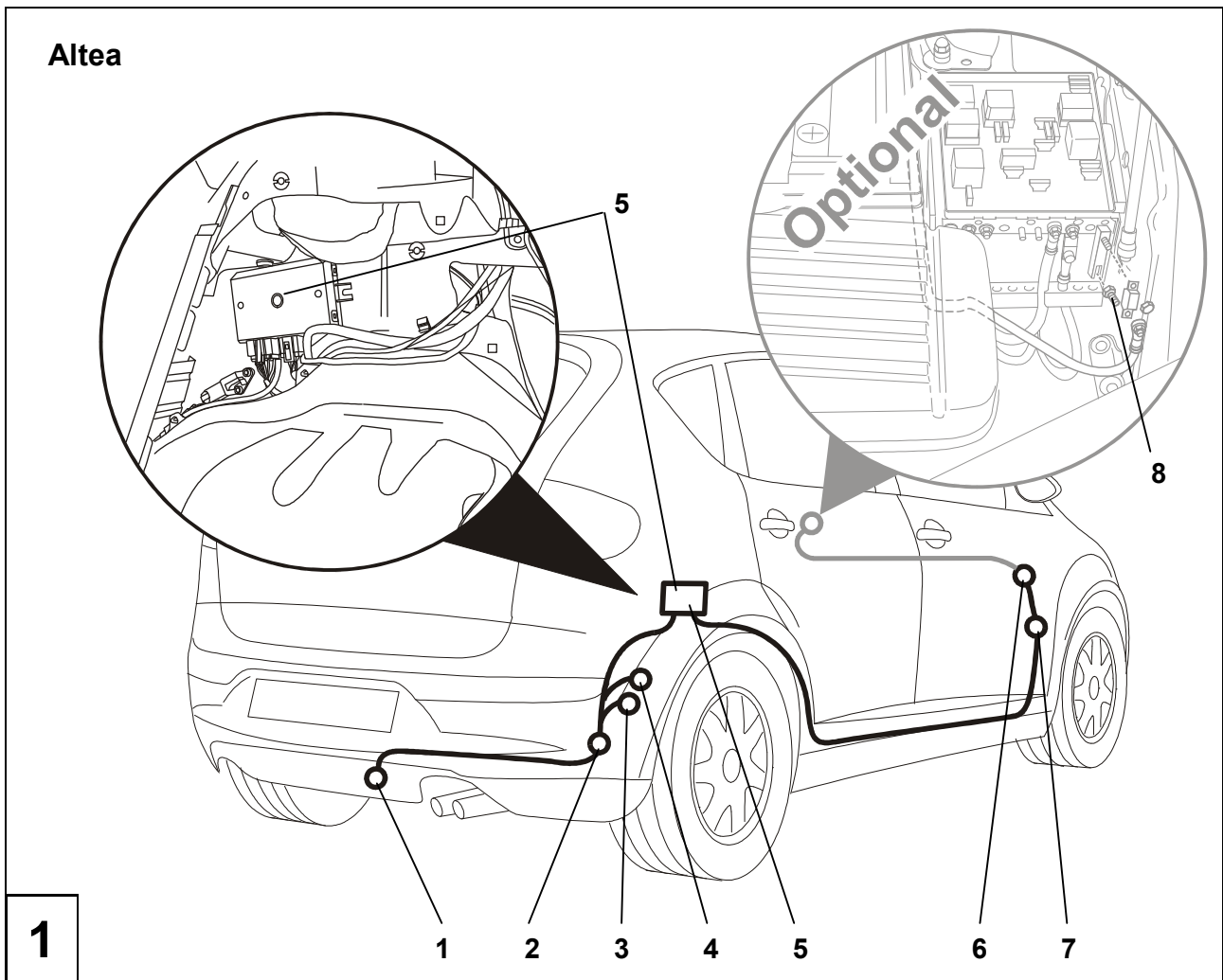
(GB) Socket Pin Assignment

(I) Occupazione presa

(NL) Aansluiting van het stopcontact



DIN 11446		Leistung/ Power	(D)	(F)	(GB)	(I)	(NL)
	1 (L)	Min. 5 W. Max 21W.	schwarz/ weiß	noir/ blanc	black/ white	nero/ bianco	zwart/wit
	2 (54g)	Min. 5 W. Max. 42 W.	grau/ blau	gris/bleu	grey/blue	grigio/ blu	grijs/ blauw
	3 (31)		braun	marron	brown	marrone	bruin
	4 (R)	Min. 5 W. Max 42 W.	schwarz/ grün	noir/vert	black/ green	nero/ verde	zwart/ groen
	5 (58-R)	Min. 5 W. Max. 20 W.	grau/rot	gris/ rouge	gray/red	grigio/ rosso	grijs/ rood
	6 (54)	Min. 5 W. Max. 42 W.	schwarz/ rot	noir/ rouge	black/red	nero/ rosso	zwart/ rood
	7 (58-L)	Min. 5 W. Max. 20 W.	grau/ schwarz	gris/noir	gray/ black	grigio/ nero	grijs/ zwart
	8	Min. 5 W. Max. 42 W.	schwarz/ blau	noir/bleu	black/ blue	nero/blu	zwart/ blauw
	9		rot	rouge	red	rosso	rood
	10		gelb	jaune	yellow	giallo	geel
	11		braun/ weiß	marron/ blanc	brown/ white	marrone/ bianco	bruin/wit
	12		--	--	--	--	--
	13		braun	marron	brown	marrone	bruin





Installation Instructions: Electrical System for Towing Hitch

Important notes

Read the installation manual prior to starting work.

The electrical kit should only be installed by qualified personnel.



Caution – Disconnect the battery!

Danger of damage to the vehicle's electronic system. Data which are stored electronically may get lost.

Read out the fault storage prior to starting work.

Use a closed-circuit current conservation unit if necessary.

Note

During installation special attention has to be paid to the following points:

- Cables must not be pinched or damaged.
- All sealing elements have to be installed properly.
- The socket gasket has to be positioned on the insulating sleeve and not on the individual wires.
- Lay the cables such that they do not rub on the vehicle and are not bent.
- Do not lay any cables near the exhaust system.

When a trailer lamp fails (including direction indicator lights, but not back-up light and rear fog lamp), this is indicated by the light failure indicator in the instrument cluster. An additional indicator light (C2) for monitoring the direction indicators on the trailer is not provided in the vehicle.

When a trailer is used, the rear fog lamp of the traction vehicle is deactivated.

In the case of trailers without rear fog lamp, a rear fog lamp has to be retrofitted.

A socket adapter may only be used in conjunction with a trailer. When the trailer is no longer used, remove the socket adapter.

Correct trailer operation has to be checked using a trailer or a test instrument with load resistors.

Subject to technical alterations!

Installing the electrical kit

1. Disconnect the negative battery terminal.
2. If necessary, remove the following coverings and panels:
 - In the luggage trunk
 - Covering of luggage trunk bottom
 - Loading edge covering
 - Covering of the right side of the luggage trunk
 - On the right-hand side of the vehicle.
 - Seats of the backseat bench
 - Access strips
 - Covering on the right of the steering column
 - Cover of the fuse carrier
3. Fasten the trailer connection unit above the right-hand wheel housing (Altea) (Fig. 1/5) or in the right-hand hollow space (Toledo) (Fig. 2).
4. Starting in the luggage trunk, lead the socket end of the cable through the 40mm hole (Fig. 1/2) to the outside to the socket holder plate (Fig. 1/1).

Installing the socket

5. Fit the socket gasket and connect the cable harness to the socket housing in accordance with the *pin assignment plan* and push the rubber grommet against the socket.
6. Screw the socket onto the holding plate using the supplied screws and nuts.

Connecting the trailer connection unit

7. Insert the 16-fold connector housing into the intended slot of the trailer connection unit (Fig. 1/5) and let it lock into place.
8. Insert the 12-fold connector housing of the eight-core cable set into the intended slot of the trailer connection unit (Fig. 1/5) and let it lock into place.

Installing the electrical kit

9. Connect the brown wires with the eyelets to the vehicle's ground point (Fig. 1/3).
10. Lay the eight-core cable set along the vehicle's cable harness / ducts to the area of the network control unit on the right side of the vehicle's front (Fig. 1/6).
11. **11-13: Vehicles with BCM (Body Control Module) 2009>:** On the BCM unit, unlatch the brown plug (slot C) and open the contact holder by sliding. Unlatch the following wires and insert into the 3-pin, black bushing housing located on the wire set:
 - Wire orange/brown from chamber 16 in chamber 1 enclosed black housing.
 - Wire orange/green from chamber 15 in chamber 3 enclosed black housing.
 - Wire black/red from chamber 17 in chamber 2 enclosed white housing.
12. From the wire set, insert the single wires orange/brown, orange/green and black/red into the proper coloured, vacated chambers 15, 16 and 17 of the brown plug.
13. Reconnect the black contact holders with each other by sliding, snapping in the brown cover cap and plugging the plug back on the BCM unit (slot C) and latching.
14. **14-19: Vehicles with BSG:** Open the red latch on the network control unit by shifting it, disconnect the black 12-pin connector (position G, Fig.1/2) from the network control unit and open the latch. Unlock the following cables and insert it into the black 3-pin socket housing provided on the cable set:
 - The orange/brown cable from compartment 7 into compartment 1.
 - The orange/green cable from compartment 8 into compartment 3.
15. Insert the individual orange/brown and orange/green cables of the cable set into the now free compartments 7 and 8 of the 12-pin plug as indicated by the colours.
16. Close the latch, plug the plug back into the network control unit and push the latch on the network control unit shut.
17. Pull out the black 16-pin plug (socket E) from the vehicle electrical system control unit and open the catch. Release the following wire and insert into the 3-pin white socket housing on the cable set:
 - Black/red wire from chamber 2 into chamber 2.
18. Insert the black/red wire of the cable set into the free chamber 2 of the 16-pin plug. Close catch.
19. Re-connect plug to the vehicle electrical control system.
20. In each case, plug the open 3-pin black and white housings together.
21. Push open the purple latch on the fuse carrier (Fig. 1/7).
22. Insert the following wires into the fuse-protected side of the fuse compartment.
 - black/blue wire into chamber 2 (⇒ MY 2005), into chamber 13 (MY 2006 ⇒), alternatively into another free compartment already equipped with terminal 15
 - red wire into chamber 39,
 - red/black wire into chamber 40
 - red/blue wire into chamber 41

23. If the original fuse positions 39 -41 are not equipped with terminal 30 on the vehicle, the supplied cable adapter has to be installed. Otherwise continue with step 25.
24. Plug the triple contact into the input side of slots 39-41 of the fuse carrier.
25. Lay the wire end with the cable lug through a suitable opening to the constant plus distributor (Fig. 1/8) of the central electrical system in the engine compartment.

► **Note**

Seal the opening to prevent any ingress of humidity.

26. Insert the supplied M5 x 13 hexagon head bolt into the groove below the constant plus distributor and let it lock into place.
27. Screw on the supplied 50 A fuse link together with the supplied lock washer and the nut and the cable lug of the red cable laid to this place (recommended torque: 4.5 Nm).
28. Insert the provided fuses as follows:
 - 15 A fuses into sockets 39- 41 or the alternative positions of the fuse holder.
 - 5 A fuse into socket 2 (⇒ MY 2005), in socket 13 (MY 2006 ⇒).

Wire	Position	Amperes	Function
black/blue	2 / 13 / ?	5	Terminal 15 of trailer connection unit
red	39	15	Power supply for socket pin 9
red/black	40	15	Power supply for trailer lights
red/blue	41	15	Power supply for trailer lights

29. Close latch on the fuse carrier.

► **Note**

The constant plus line on pin 9 of the socket is integrated into the cable set.

Checking correct operation

30. Reconnect the ground of the vehicle's battery.
31. For vehicles up to the production date week 22/07 using a trailer connection unit with part number **300001506558/1K0 907 383 E** or higher, the gateway control unit -J533 must be re-flashed as follows:

Start guided troubleshooting using the vehicle system test

Function- component selection

- Bodywork
 - o Bodywork - installation work
 - Trailer detection
 - Functions
 - o Replace control unit for trailer detection
 - Select country code
 - continue with menu instructions

32. The vehicle's Gateway has to be coded as follows using a service tester to extend its functionality to the use of a towing hitch:

- Address word "19" Diagnosis interface for data bus.
 - Select function „Read/write long coding“.
 - Select address word „69“ trailer function.
 - Change to „Coded“.
 - Continue the coding according to the menu.
 - Function „06“ Exit output.

33. On vehicles equipped with a parking distance control, a service tester must be used to extend the functionality to the use of a towing hitch as follows:

- Address word „76“ Parking distance control.
 - Select function „07“ Coding the control unit.
 - Enter the value according to the coding table. Example 001xxxx.
 - Function „06“ Exit output.

Finally, as at the beginning, perform a system request regarding the “Guided error location” and delete error codes if necessary.

34. For vehicles with Park Distance Control or Park Assist, code the control unit in the self-diagnosis using the VAS tester:

- Address 10 (Park Distance Control or Park Assist)
 - 08 Code the control unit

Change the code value: Byte 0 Bit sample xxxxxxx1 (x: enter the available values in the entry field). To do this, switch to entry mode [BIN].

35. Check the trailer function with the help of a suitable test instrument (with load resistors) or with the help of a trailer.

36. Secure all cables using cable ties.

37. Refit any parts removed for installation.