

Water Heater Unit



Thermo Top C Additional Heater C.129 ^{e1}
00 0002

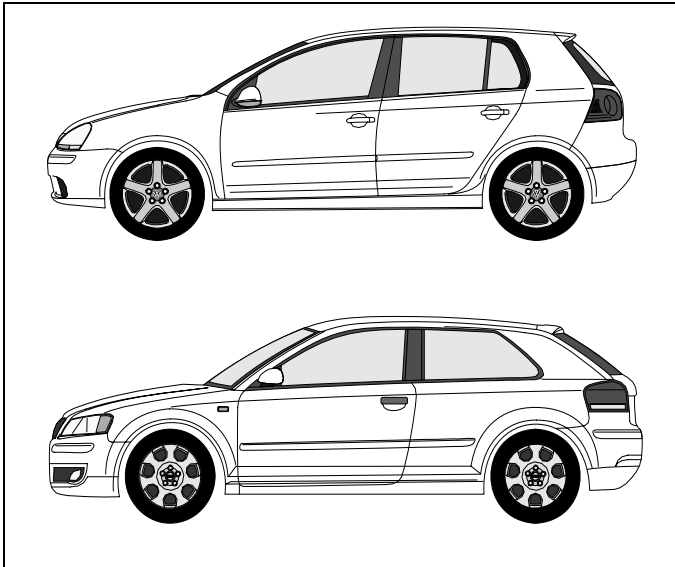
Installation Instructions Auxiliary Heating Function

VW Golf V

Diesel

Audi A3

Diesel



from Model Year 2004

For left-hand drive vehicles only



WARNING!

Hazard warning:

Incorrect installation or repair of Webasto heating systems may cause a fire or result in the emission of carbon monoxide, which can be fatal. Serious or fatal injuries can be caused as a result.

Specialist company training, technical documentation, specialized tools and equipment are required to install and repair Webasto heating and cooling systems.

NEVER attempt to install or repair Webasto heating or cooling systems if you have not successfully completed the company training and thereby acquired the required technical skills, or if you do not have access to the required technical documentation, tools and equipment needed to carry out correct installation and repairs.

ALWAYS follow all Webasto installation and repair instructions and observe all warnings.

Webasto does not accept any liability for defects and damage that are attributable to installation by untrained staff.

10.11.04

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Foreword

These installation instructions apply to the vehicles VW Golf V and Audi A3 with diesel engine
- For the validity, see above - from model year 2004 and later, assuming technical modifications to the vehicle do not affect installation, any liability claims excluded. Depending on the vehicle version and equipment, modifications may be necessary during installation with respect to these installation instructions.

However, the stipulations in the "installation instructions" and "operating and maintenance instructions" for the *Thermo Top C/E* must always be observed.
The corresponding rules of technology and any information from the vehicle manufacturer should be observed during the installation work.

Special tools

- Angle drill

Validity

Only with auxiliary heater *Thermo Top C.129* installed e1
00 0002

Tested vehicles:

Manufacturer	Model	Engine model	EG-BE No.
Volkswagen	Golf V	Diesel	e1*2001/116*0242*...
Audi	A3	Diesel	e1*2001/116*0217*...

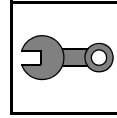
Heater Unit/Installation Kit

Quantity	Designation	Order No.
1	Kit for Auxiliary Heating Function Golf V / Audi A3	9012239A

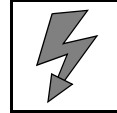
Explanatory Notes on Document

To provide you with a quick overview of the individual working steps, you will find an identification mark on the outside top right corner of the page in question.

Mechanical work



Electrical connection



Special features are highlighted using the following symbols:



Specific risk of injury or fatal accidents.



Specific risk of damage to components.



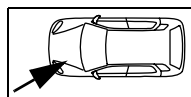
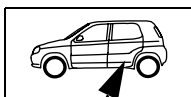
Specific risk of fire or explosion.



Reference to general installation instructions of Webasto components or to the manufacturer's vehicle-specific documents.



Reference to a special technical feature.



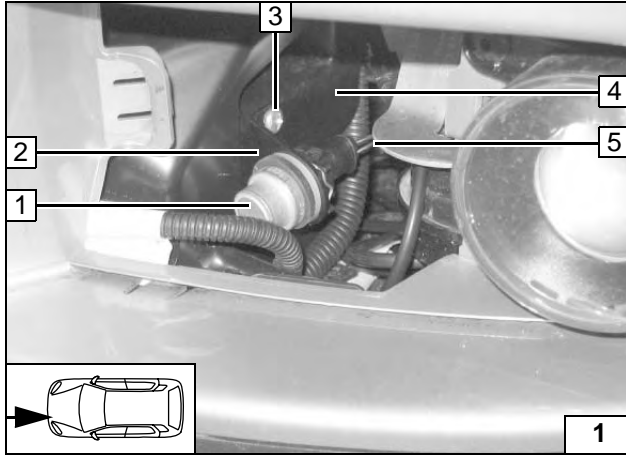
The arrow in the vehicle icon indicates the position on the vehicle and the viewing angle.

WARNING!

- Disconnect and remove the battery.
- Remove the battery carrier.
- Remove the air filter together with the intake hose.
- Remove the left-hand front fog light or, on vehicles without front fog lights, the left-hand cover.
- Remove the footwell trim on the driver's side
- Remove the lower instrument panel trim on the driver's side



Preliminary Work

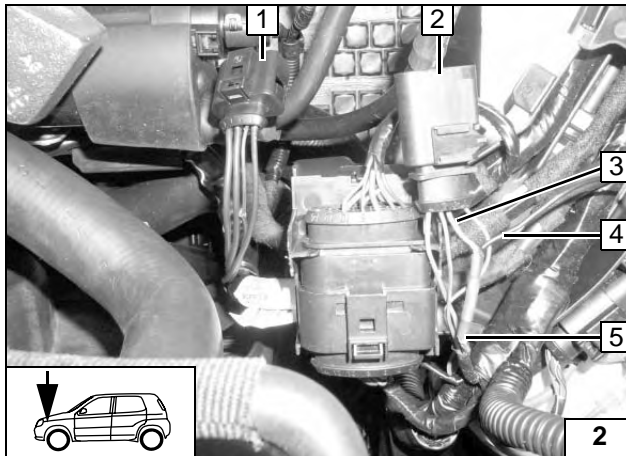


Optional Auxiliary Heating Function Golf V

Position bracket (2) on plastic trim (4) on left next to radiator; copy hole pattern; watch components located behind; hole 3.5 mm dia. [2x]

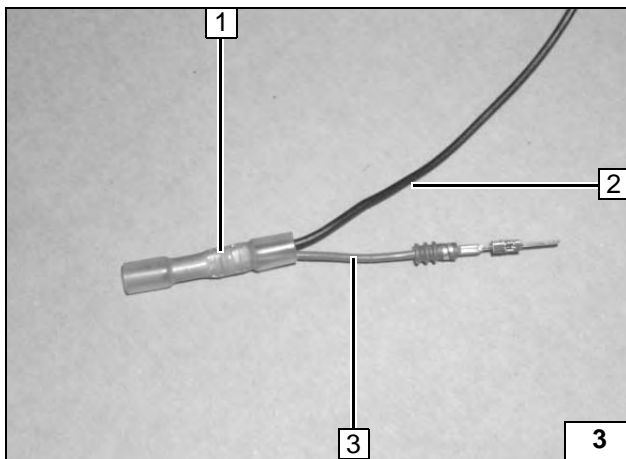
- 2 Bracket
- 3 Self-tapping screw, 4.2x13 [2x]
- 1 Temperature switch, washer
- 5 Wiring harness

Mount wiring harness (5) on temperature switch (1) and route along original vehicle wires into engine compartment

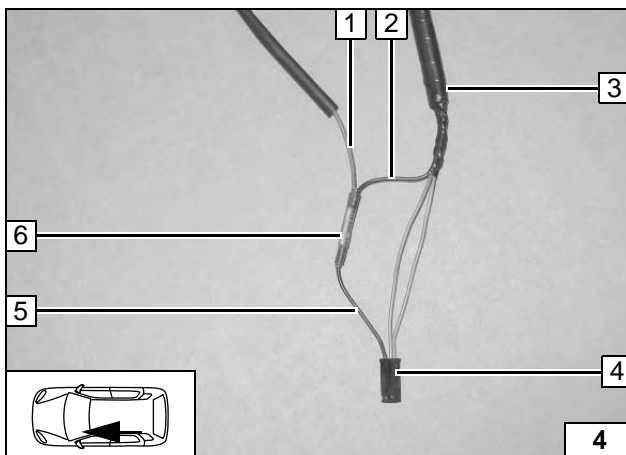


Disconnect connector (1, 2) over starter T2c (without A/C) or T4t (with A/C). Disconnect blue (bl) wire D+61 (3, 5) behind connector (2), Pin 2. Produce connection as shown in wiring diagram with red (rt) connector (crimp and shrink). For easier installation, remove wire (3) from connector (2) as shown in next figure.

- 1 Connector T2c or T4t
- 2 Connector T2c or T4t
- 3 Blue (bl) wire from alternator D+61
- 4 Blue (bl) wire to temperature switch
- 5 Blue (bl) wire to vehicle electrical-system control unit



- 1 Red (rt) connector
- 2 Blue (bl) wire (2/4) to temperature switch
- 3 Blue (bl) wire (2/3) from alternator D+61



Route black (sw) wire (1) along wiring harness of heater control into passenger compartment. Cut off black (sw) wire (2, 5) before connector X9. Produce connection as shown in wiring diagram with red (rt) connector (crimp and shrink).

- 1 Black (sw) wire from temperature switch
- 2 Black (sw) wire to heater unit connector X1/1
- 3 Wiring harness of heater control
- 4 Connector X9 (heater control)
- 5 Black (sw) wire from heater control
- 6 Red (rt) connector



Installing temperature switch

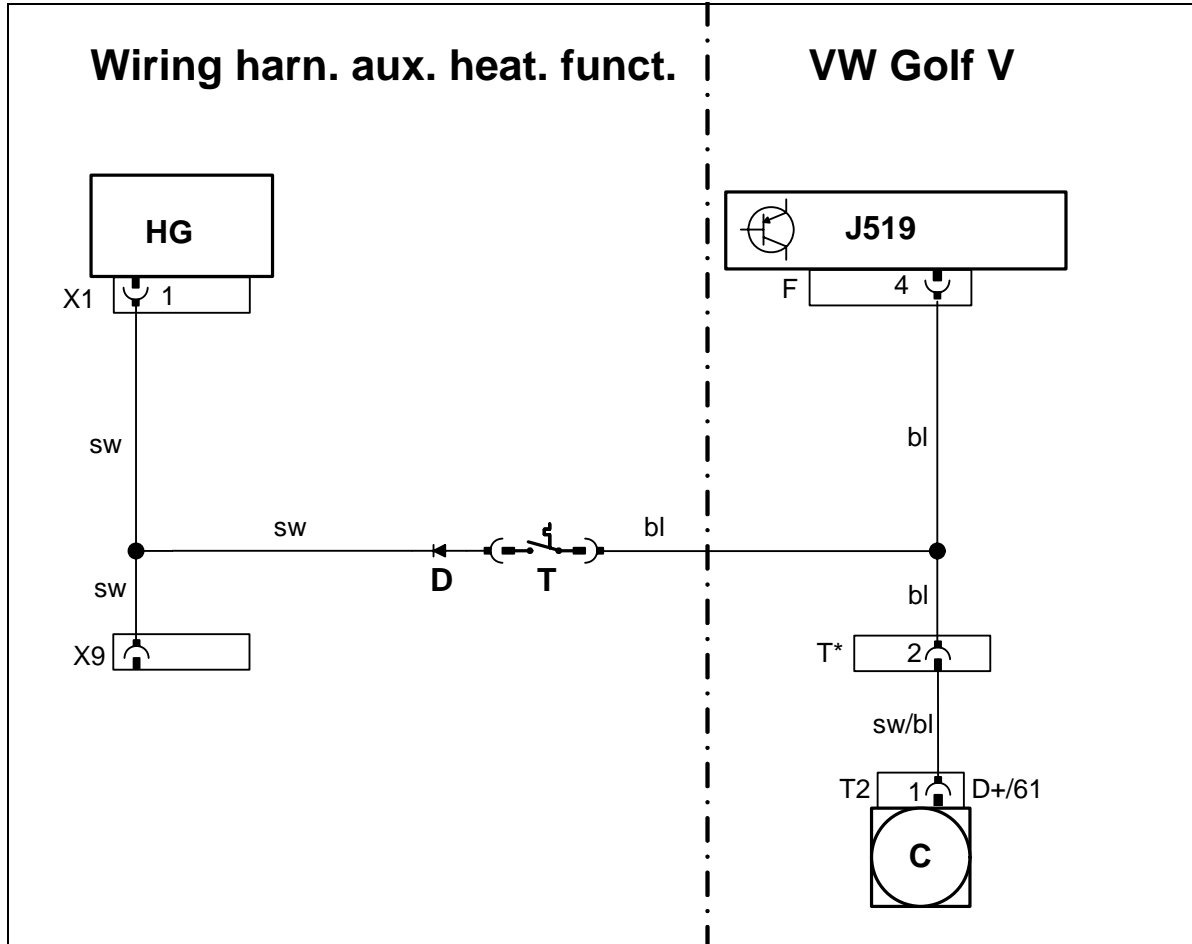


Connection on D+61

Connection on D+61



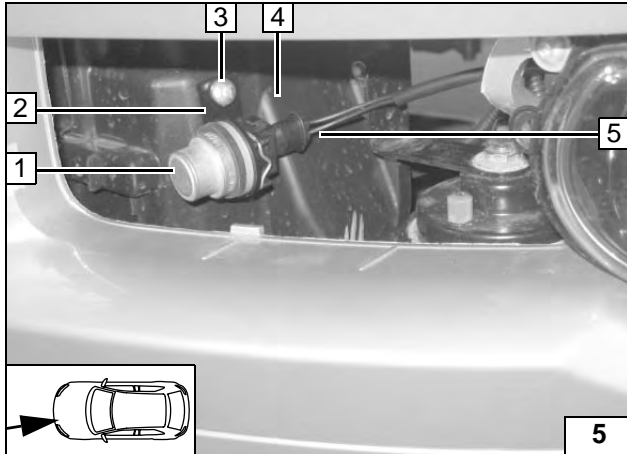
Connection to heater-unit wiring harness



Wiring Diagram for Auxiliary Heating Function Golf V

Components of genuine accessories		Vehicle components		Colors and symbols	
HG	Heater unit TT-C/E	C	Alternator	bl	blue
D	Diode	J519	Control unit for vehicle electrical system	sw	black
X9	Connector of heater control (clock 1533; T80)	T*	Connector T2c (without A/C) or connector T4t (with A/C)		
T	Temperature switch				

Legend for Auxiliary Heating Function

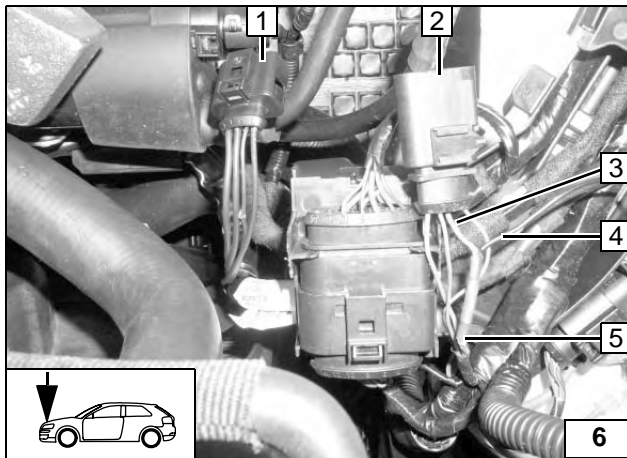


Optional Auxiliary Heating Function Audi A3

Position bracket (2) on plastic trim (4) on left next to radiator; copy hole pattern; watch components located behind; hole 3.5 mm dia. [2x]

- 2 Bracket
- 3 Self-tapping screw, 4.2x13 [2x]
- 1 Temperature switch, washer
- 5 Wiring harness

Mount wiring harness (5) on temperature switch (1) and route along original vehicle wires into engine compartment

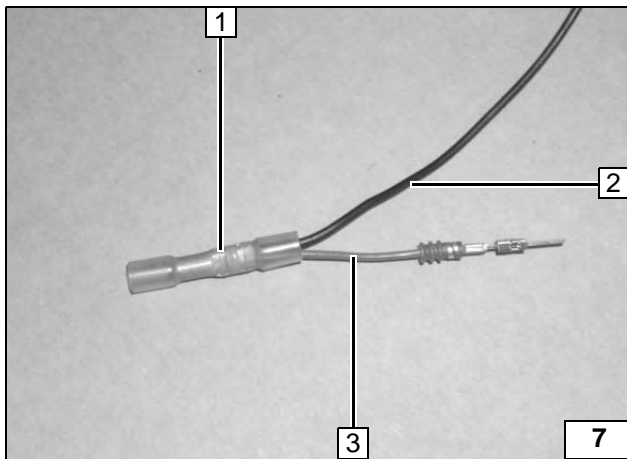


Disconnect connector (1, 2) over starter T2 or T2u (without A/C) or T4 (with A/C). Disconnect blue (bl) wire D+61 (3, 5) behind connector (2), Pin 2.

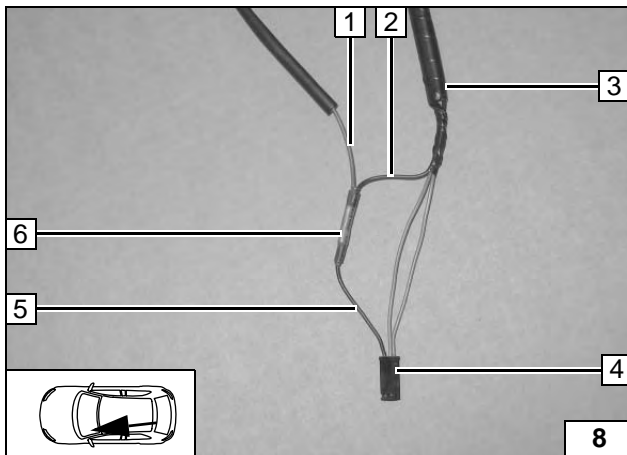
Produce connection as shown in wiring diagram with red (rt) connector (crimp and shrink).

For easier installation, remove wire (3) from connector (2) as shown in next figure.

- 1 Connector T2 or T2u or T4
- 2 Connector T2 or T2u or T4
- 3 Blue (bl) wire from alternator D+61
- 4 Blue (bl) wire to temperature switch
- 5 Blue (bl) wire to vehicle electrical-system control unit



- 1 Red (rt) connector
- 2 Blue (bl) wire (6/4) to temperature switch
- 3 Blue (bl) wire (6/3) from alternator D+61



Route black (sw) wire (1) along wiring harness of heater control into passenger compartment.

Cut off black (sw) wire (2, 5) before connector X9. Produce connection as shown in wiring diagram with red (rt) connector (crimp and shrink).

- 1 Black (sw) wire from temperature switch
- 2 Black (sw) wire to heater unit connector X1/1
- 3 Wiring harness of heater control
- 4 Connector X9 (heater control)
- 5 Black (sw) wire from heater control
- 6 Red (rt) connector



Installing temperature switch

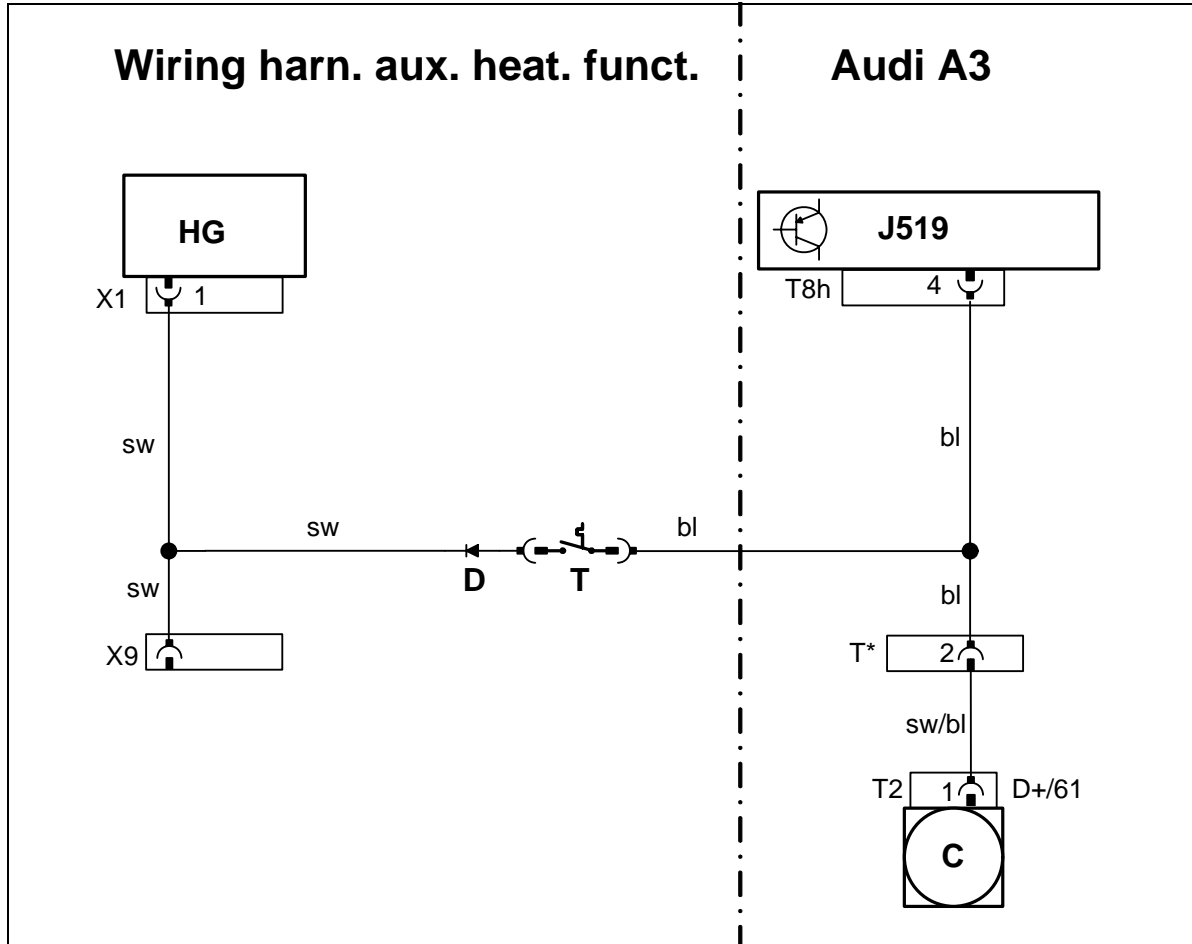


Connection on D+61

Connection on D+61



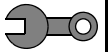
Connection to heater-unit wiring harness



Wiring Diagram for Auxiliary Heating Function Audi A3

Components of genuine accessories		Vehicle components		Colors and symbols	
HG	Heater unit TT-C/E	C	Alternator	bl	blue
D	Diode	J519	Control unit for vehicle electrical system	sw	black
X9	Connector of heater control (clock 1533; T80)	T*	Connector T2 (without A/C up to 10/03) or connector T2u (without A/C from 11/03) or connector T4 (with A/C)		
T	Temperature switch				

Legend for Auxiliary Heating Function



WARNING!

Final Work

Reassemble the disassembled components in reverse order.

Secure all loose cables using cable ties.

- Connect the battery.
- Start the engine.
- Check the operation of the auxiliary heater under 2 conditions:
 - engine running and
 - temperature switch (possibly cooling or icing-up)



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