

Water Heater

Thermo Top C Parking Heater



Upgrade documentation

Upgrading from auxiliary heater to parking pre-heater with engine preheating

Audi Q7

Diesel
from model year 2006

Upgrading of basic air-conditioning not possible.



WARNING!

Hazard warning:

The improper installation or repair of Webasto heating and cooling systems can cause fire or the leakage of deadly carbon monoxide, leading to serious injury or death.



To install and repair Webasto heating and cooling systems you need to have completed a special company training course and have the appropriate technical documentation, special tools and special equipment.

Only use genuine Webasto parts. See the Webasto air and water heaters accessories catalogue for this purpose.

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.

The initial startup is to be executed with the Webasto Thermo Test Diagnosis.

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

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Validity

Manufacturer	Model	Type	EG-BE No./ABE
Audi	Q7	4LB	e1 * 2001 / 116 * 0350 * ...

Engine type	Engine model	Output in kW	Displacement in cm ³
BUG	Diesel	171	2967
CASA	Diesel	176	2967
BTR	Diesel	240	4134

Vehicle and engine types, equipment variants and national specifications not listed in these installation instructions have not been tested. However, installation according to these installation instructions may be possible.

Heater/Installation Kit

Quantity	Description	Order No.:
1	Upgrade kit for Audi Q7 Diesel T91	1313675B

Also required:

Quantity	Description	Audi Order No.:
4	Bolt	N 909 803 04

Foreword

This upgrading documentation applies to Audi Q7 Diesel vehicles - for validity, see page 2 - from model year 2006 and later, assuming technical changes to the vehicle, and in particular **software updates** of the control units by the **manufacturer**, 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. It must **always** be checked before upgrading, whether the required control units can be **"activated"**!

However, the stipulations in this "installation documentation", the "operating and installation instructions" for the Thermo Top Evo must always be observed.

The corresponding rules of technology and any information from the vehicle manufacturer should be observed during the installation work.

General Instructions

Installation should be carried out according to the general, standard rules of technology. Unless specified otherwise, fasten hoses, lines and wiring harnesses to original vehicle lines and wiring harnesses using cable ties.

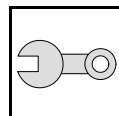
Sharp edges should be fitted with rub protection (split-open fuel hose).

Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329).

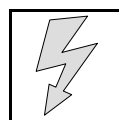
Explanatory Notes on Document

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

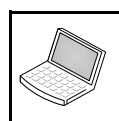
Mechanical system



Electrical system



Software



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.

Preliminary Work

WARNING!

Make sure the auxiliary heater is fully operational before beginning work.

The control units J255 and J364 must be coded with VAS 51/52!

Import and note down the existing code value before start without fail.

Attach the new code to the vehicle documents.

Safest coding option over the executed functions!

Direct entry for J364 from 0001 to 0002 is possible!

If the code value is known, one can also use VCDS.

- Remove the left front wheel.
- Remove the left front wheel-well inner panel.
- Take off the cover plate over the heater and remove any screw residue.
- Remove the left fuse cover on the instrument panel.
- Remove the upper fuse carrier.
- Remove the pedal trim in the lower footwell.
- Remove the leaf protection screen in the engine compartment from the relay box (below the wiper on the driver's side)

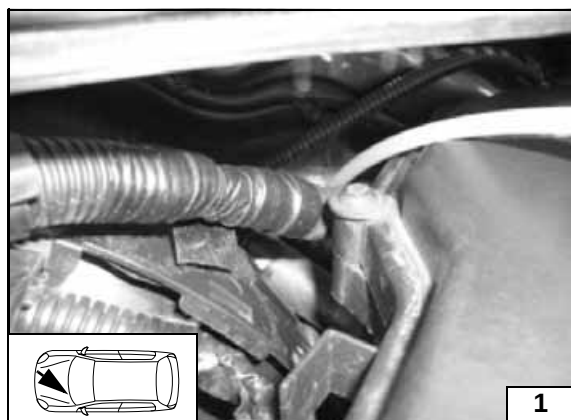




Electrical Connections

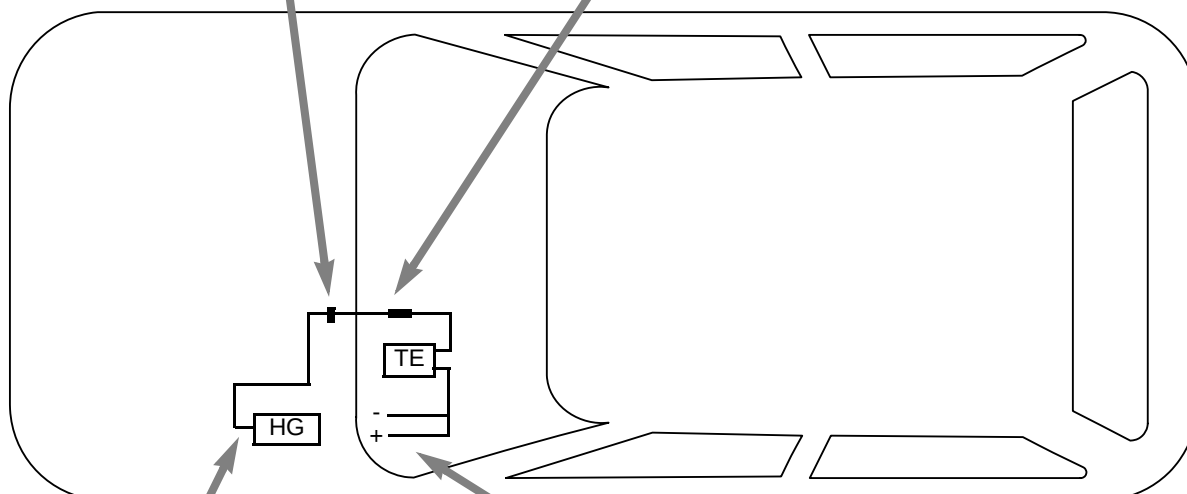
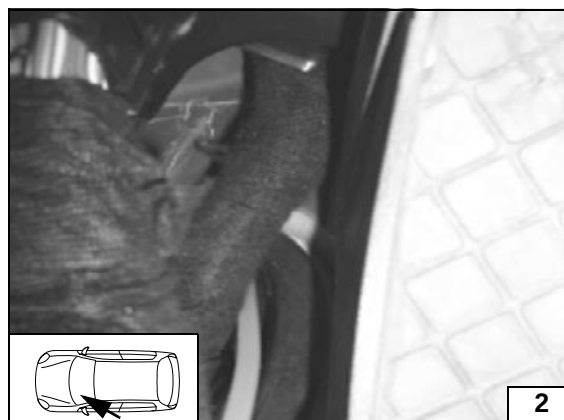
Wiring harness pass through

View from engine compartment

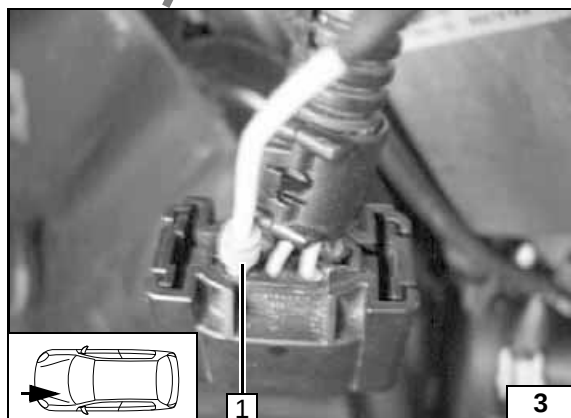


Wiring harness pass through

View from passenger compartment

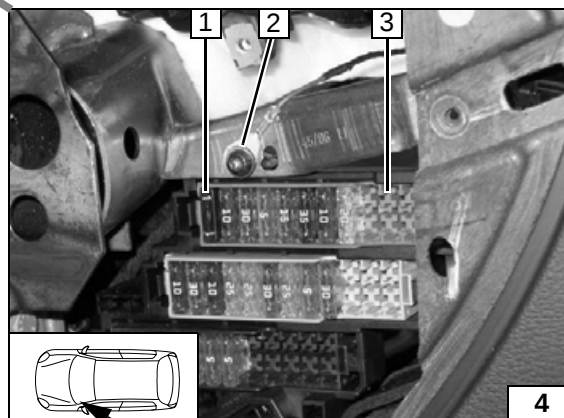


Wiring har-
ness rout-
ing
diagram



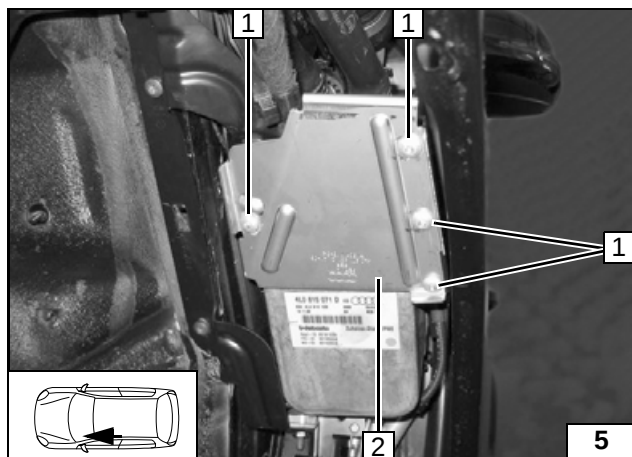
Connecting heater

1 PIN 1, connector of heater



Connecting fuse carrier

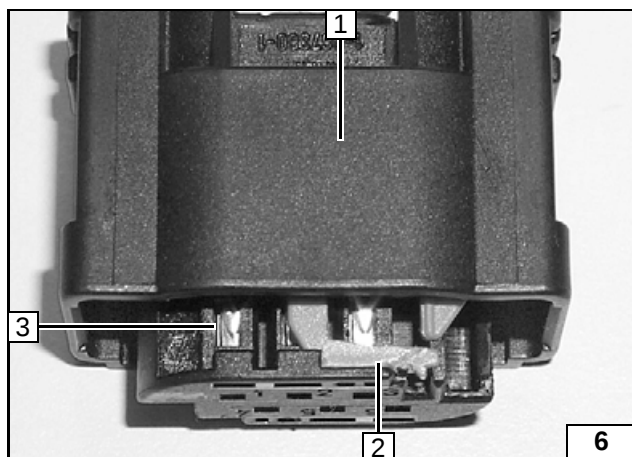
- 1 1 A fuse, terminal 30
- 2 Original vehicle bolt and earth connection for Telear KS4
- 3 Upper fuse carrier



Drill out bolt heads **1** [4x] and remove threaded pieces.

2 Cover plate

Removing
cover plate



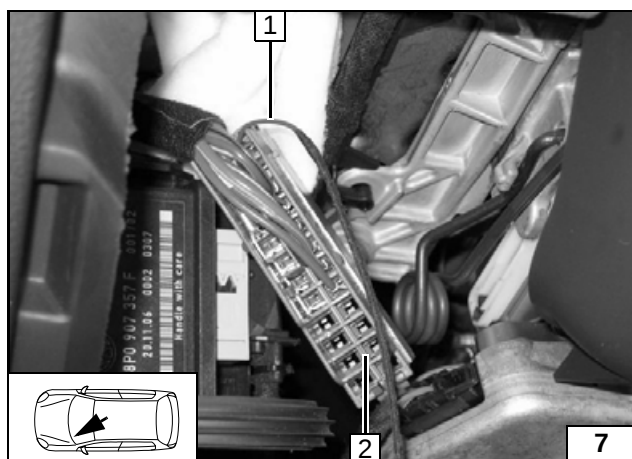
Disconnect 6-pin connector X14 (**1**) from heater. Engage yellow (ge) wire from wiring harness 1 (KS1) in socket of Pin 1 of connector X14 (**1**). Connect connector X14 (**1**) on heater.

Route wiring harness 1 (KS1) into passenger compartment and connect to wiring harness 2 (KS2) in accordance with wiring diagram.

2 Locking device, slide to right

3 Socket, Pin 1

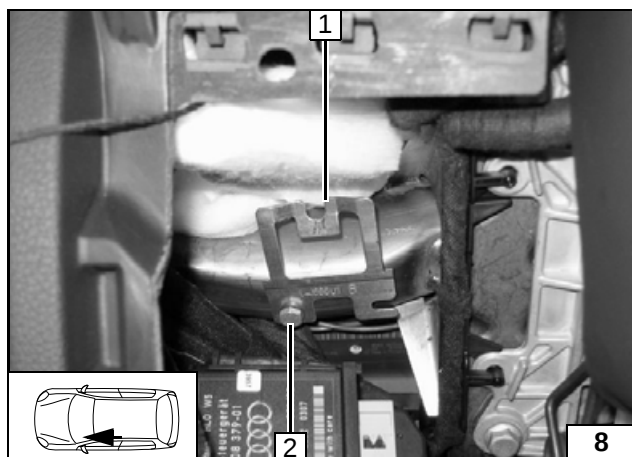
Connect-
ing KS1
and KS2



Unlock lock of fuse carrier **2**.

Engage KS3 **1** on terminal 30 in fuse carrier.

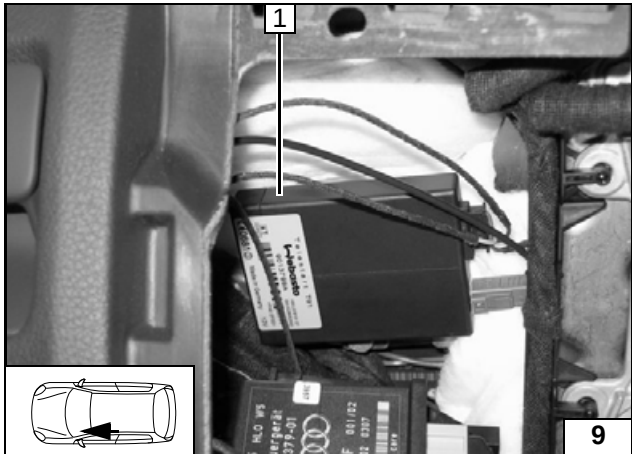
Connect-
ing KS3



1 Telestart bracket

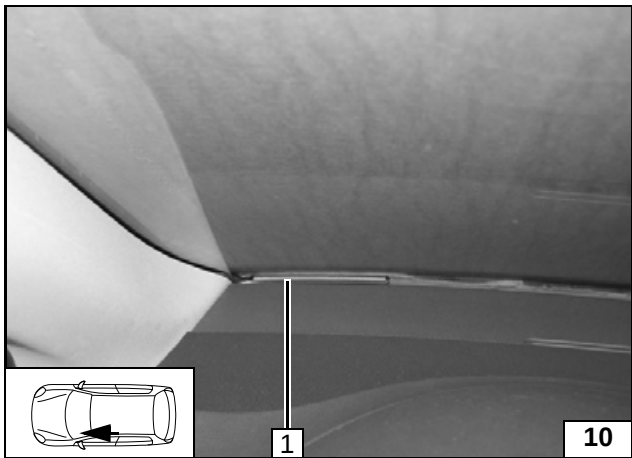
2 M6x12 bolt, spring lockwasher, original vehicle thread

Installing
Telestart



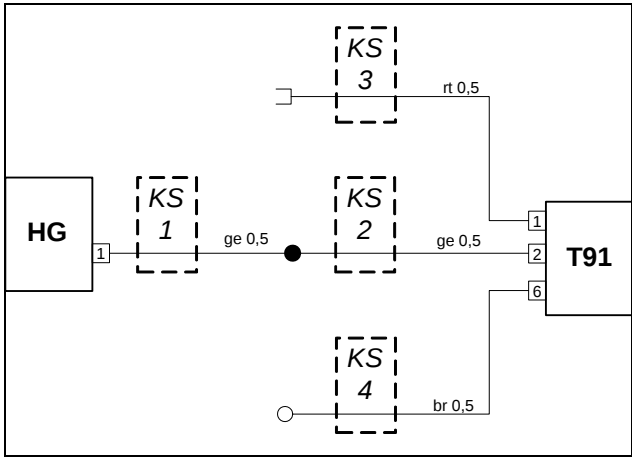
1 Push Telestart onto bracket

Installing
Telestart



1 Telestart antenna

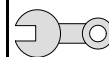
Installing
antenna



Legend:

- HG** Heater
- T91** Telestart receiver
- KS** Wiring harness
- rt** red
- br** brown
- ge** yellow

Wiring dia-
gram



Final Work

WARNING!

- Reassemble the disassembled components in reverse order
- Observe tightening torque of bolts on front wheel
- Fasten cover plate with genuine Audi bolts (N 909 803 04)
- Check all electrical connections for firm seating
- Secure all loose cables using cable ties
- Teach Telestart in accordance with general operating instructions

Note:

The coding of the vehicle components must be repeated after a service at VAG partner if necessary. Please forward the information to the customer.

See the vehicle logbook for the operating instructions.

