

# Parking Heater

**Additional heating Webasto  
Thermo Top V**

## Upgrade manual

### Land Rover Discovery 3 / Range Rover Sport

diesel

from model 2005

Only for climate control models



#### **ATTENTION!**

#### **Warning/danger:**

**The improper installing or repairing of Webasto heating systems can fire cause or lead to leakage of deadly carbon monoxide. This can cause serious or fatal injury!**

**For the installation and the repair of Webasto heating and cooling systems: this requires Specialist company training, technical documentation, special tools and special equipment.**

**Try NEVER to repair, Webasto heating or cooling systems or install them if you did not successfully completed the company training and not having the necessary technical skills acquired and have access to the necessary installation and repair technical documentation, tools and equipment**

**Follow ALWAYS all Webasto installation and repair instructions, and observe all warnings.**

**Webasto assumes no liability for defects and damages that are attributable to installation by untrained personnel .**

# Land Rover Discovery 3 / Range Rover Sport

## Contents

|   |    |
|---|----|
| Validity                                      | 2  |
| Upgrade kit                                   | 3  |
| Foreword                                      | 3  |
| General information                           | 3  |
| Preliminary work                              | 5  |
| Location of the heaterunit                    | 5  |
| Integration of electrics                      | 6  |
| Wiring diagram                                | 7  |
| Connection to the climate control unit        | 8  |
| Option Thermo Call                            | 10 |
| Final works                                   | 11 |
| Operational instructions for the end customer | 12 |

## Validity

| Manufacturer | Type        | Typ | EG-BE-Nr. / ABE           |
|--------------|-------------|-----|---------------------------|
| Land Rover   | Discovery 3 | LA  | e11 * 2001 / 116 * 0233 * |
| Range Rover  | Sport       | LS  | e11 * 2001 / 116 * 0234 * |

| Engine model | type   | performance in kW | Volume in cm <sup>3</sup> |
|--------------|--------|-------------------|---------------------------|
| 276DT        | Diesel | 140               | 2720                      |

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

The installation & mounting position of the digital timer and additional switch should be aligned with the end customer before the installation!

# Land Rover Discovery 3 / Range Rover Sport

## Upgradekit

| Amount | Description  | Order-Nr.: |
|--------|--|------------|
| 1      | Upgradekit Land Rover Discovery 3 / Range Rover Sport Diesel | 9015899B   |

**Option:** Thermo Call TC2 & later models in the variants „Connect“,

„Locate“ or „Comfort“

**When installing the timer on the interior light is also required:**

| Amount | Description           | Order-Nr.: |
|--------|-----------------------|------------|
| 1      | extension cable Timer | 70813B     |

## foreword

This upgrade manual shall apply to vehicles Land Rover Discovery 3 / Range Rover Sport with diesel engine - validity, see page 2 - from model year 2005 and later, when technical changes to the vehicle the installation does not affect, under exclusion of any liability claims. Depending on encryption version and features of the vehicle to the installation changes against this "installation sheet necessary line" are.

In any case, however, the regulations of the "Installation Instructions" and "Operating and Maintenance Instructions" of the Thermo Top V must be followed.

The relevant rules of technology as well as any details of the vehicle manufacturer the installation is complied with.

With the upgrade of the auxiliary heater it gives in heating mode error messages in the error memory of the stored air controller. These errors must, as part of vehicle inspections, resetted, deleted or leave them as they are.

## General information

The installation is carried out according to generally customary rules of technology. If not otherwise described, carried the attachment of hoses, pipes and wiring harnesses with cable ties compelling own / existing lines from cable harnesses.

Sharp edges should be provided with abrasion protection (cut open fuel or waterhose) !

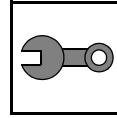
Bare body parts, such as holes, are to be sprayed with corrosion protection wax (Tectyl 100K, order no. 111329) .



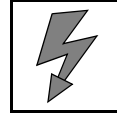
## Explanations to the document

a quick overview about the individual steps to enter, marked on the outside edge of the top right of each page.

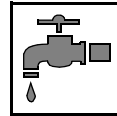
### mechanics



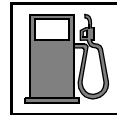
### electrical



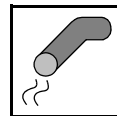
### water integration



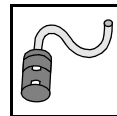
### fuel integration



### exhaust system



### combustion air



Special features are indicated by the following symbols



special risk of injury or fatal UN cases



special risk of damage to components



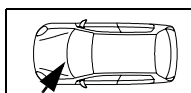
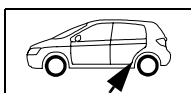
special fire and explosion hazard



Reference to general installation instructions of the Webasto component or to vehicle-specific documents of the manufacturer



Reference to a technical feature



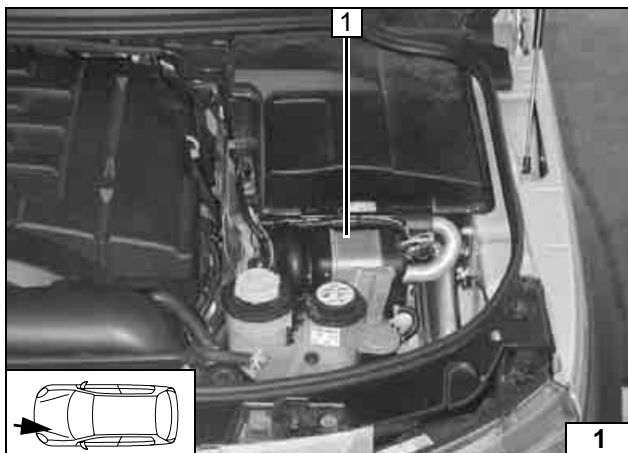
The arrow in the vehicle pictogram shows the position on the vehicle and the direction of view

## Preliminary work

Before the upgrade is to ensure that the control units of the vehicle with the latest updated software version are!

### ATTENTION!

- - Disconnect the battery !
- - Completely remove the plastic cover in the left engine compartment
- - switch hazard warning lights expand
- - Klimabedienteil expand
- - A-pillar and footwell of the driver's side to expand
- - page 12 "Operating Instructions for the end user" refer to and the manual examples add!
- - sign in the heater clearly visible Fit



## Location heater

1 heater

location

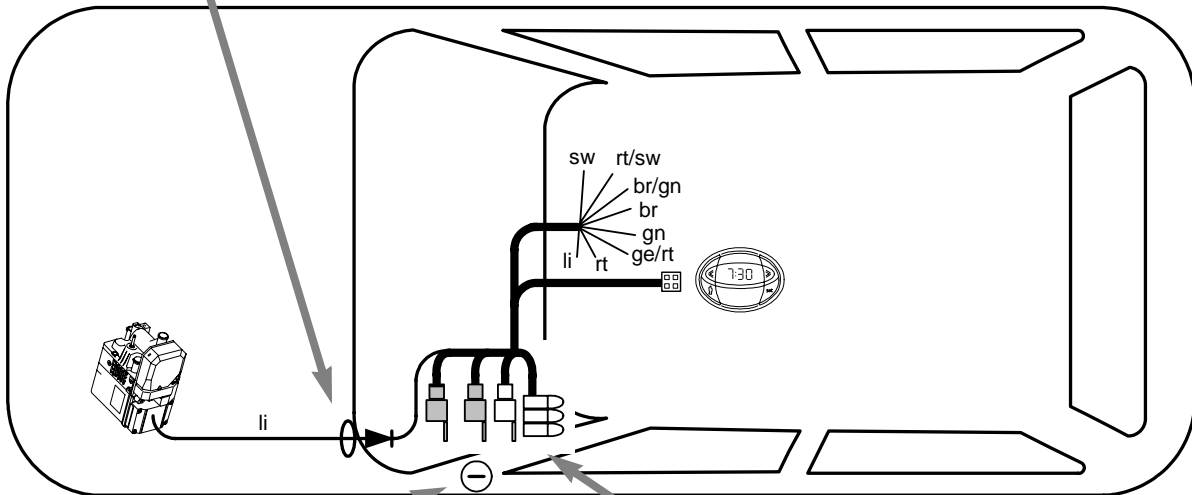
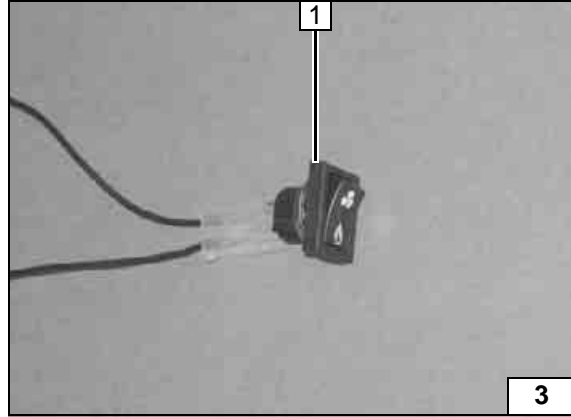
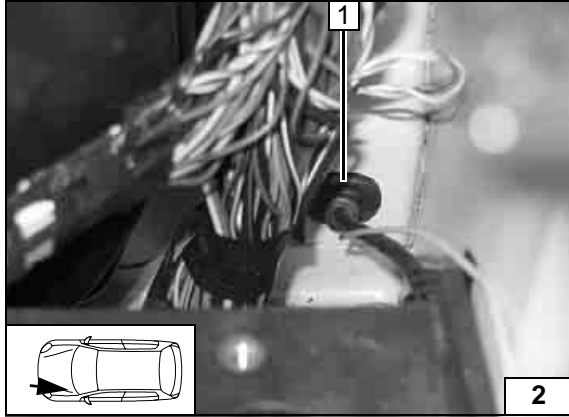


## Integration of electrical wiring Harness

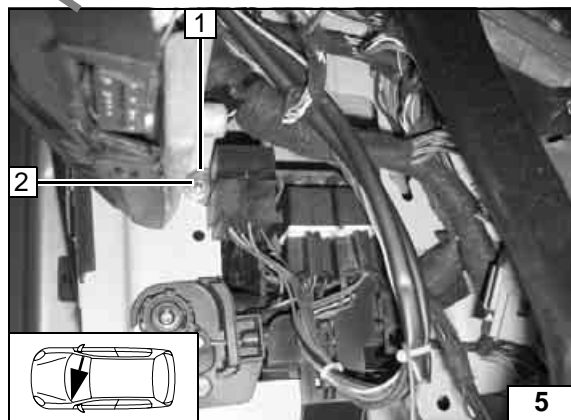
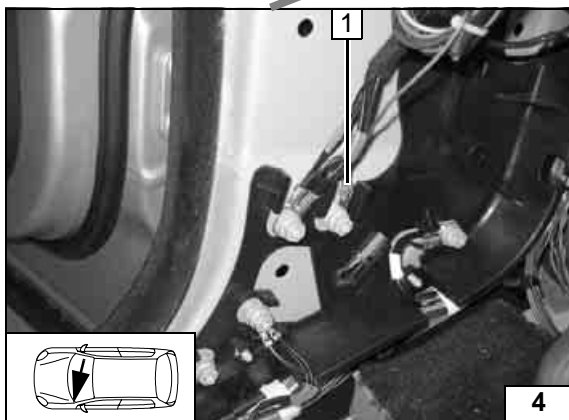
1 cable duct engine hood lock

### additional switch

The installation location of the additional switch must be agreed with the end customer before installation! Pre-installation Additional switch according to illustration!



adaption wiringloom



### ground point

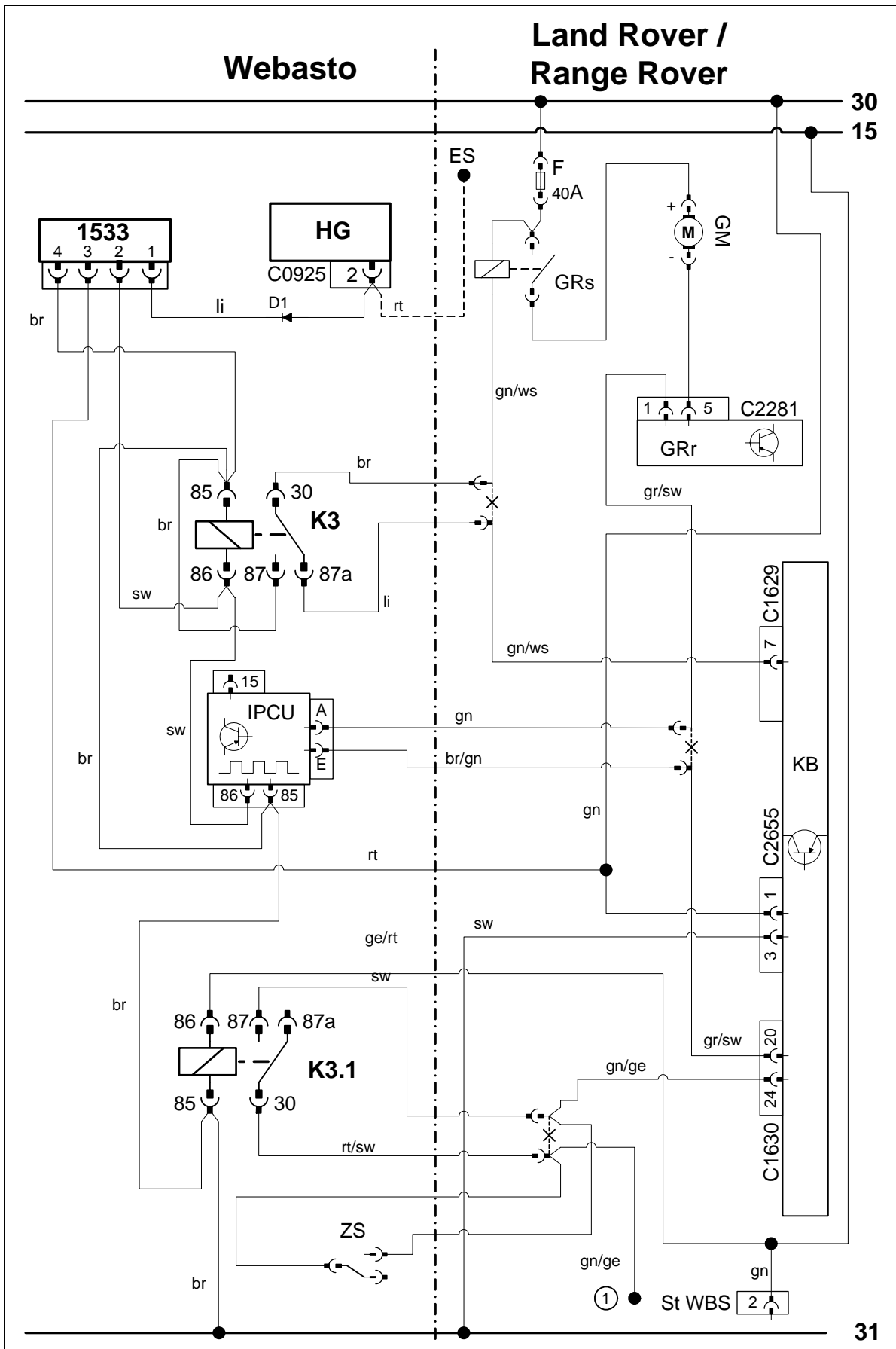
1 Vehicle's own mass point

### relay plate/mount

- 1 relay plate
- 2 Existing bore, M6x12 bolt, M6 flanged nut



## Wiring diagram

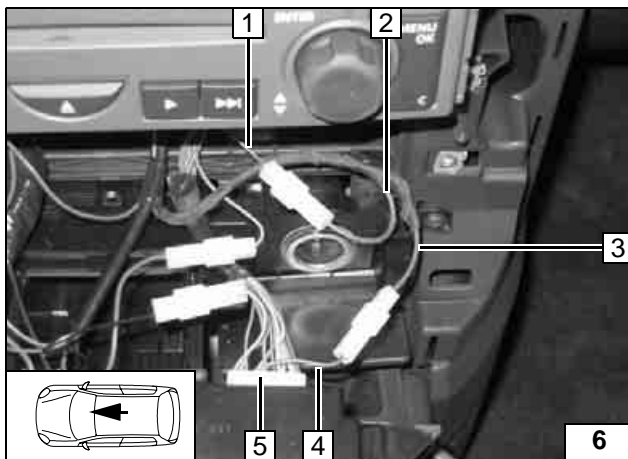


wiring diagram automatic climate control unit



| parts Webasto |                   | Parts Car |                            | colors & symbols                |        |
|---------------|-------------------|-----------|----------------------------|---------------------------------|--------|
| 1533          | Clock             | GM        | Blowermotor                | rt                              | red    |
| HG            | Heater unit       | GRs       | Blowerrelais               | ge                              | yellow |
| F3            | Fuse7,5A          | GRr       | Blowerregulator            | sw                              | black  |
| D1            | Diode 1A          | KB        | Climate control unit       | br                              | brown  |
| K3            | Blower relay      | C2281     | Connector GRr              | gn                              | green  |
| IPCU          | Pulsmodulator     | C1629     | Connector KB               | li                              | purple |
| K3.1          | Additional relay  | C2655     | Connector KB               | ws                              | white  |
| C0925         | Conn. Heaterunit  | C1630     | Connector KB               | X                               | cut    |
| ZS            | Additional switch | 1         | Positive lead M259,141,279 |                                 |        |
|               |                   | St WBS    | Plug hazard warning switch |                                 |        |
|               |                   | ES        | Switch-on                  |                                 |        |
|               |                   |           |                            | cable colours CAN be different! |        |

Legend



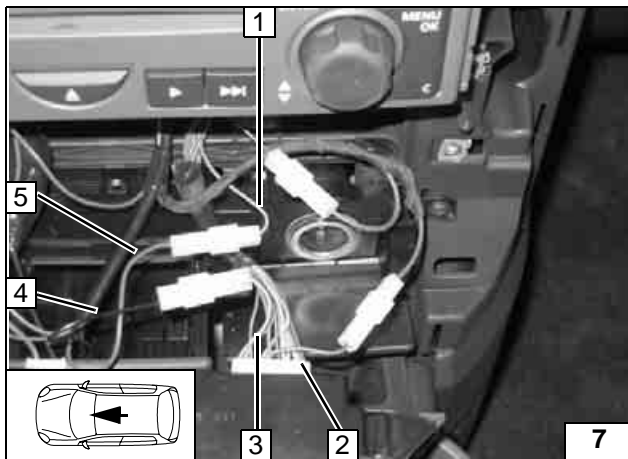
## Connection to the climate control unit

Connection to the 24-pin plug C1630 5 from the climate control unit. Make connections according to wiring diagram with enclosed connectors

- 1 Wire line gn/sw to blower control
- 2 Wire line gn from IPCU A
- 3 Wire line br/gn from IPCU E
- 4 Wire line gn/sw from connector C1630 Pin 20



connection IPCU



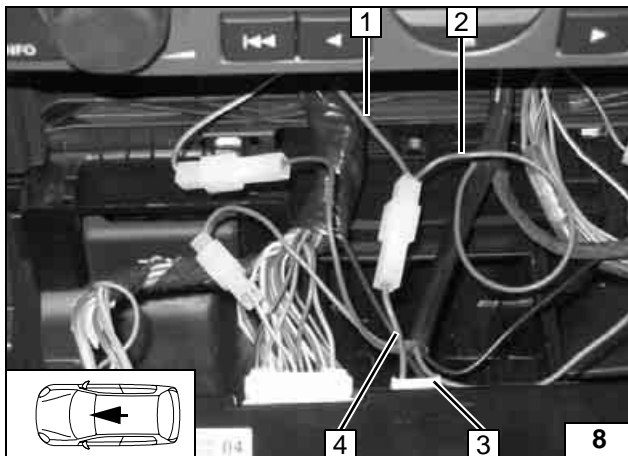
Connection to the 24-pin plug C1630 2 from the air conditioning control unit. Connect according to the wiring diagram using the enclosed flat plug sockets.

## Between Ltg. 1 and Ltg. 3 the additional switch is connected!

- 1 Wire line gn/ge powersupply flaps
- 3 Wire line gn/ge from connector C1630 Pin 24
- 4 Wire line sw from Relay K3.1/87
- 5 Wire line rt/sw from Relay K3.1/30



connection flap control



Connection to the 3-pin connector C2655 3 from the climate control unit.

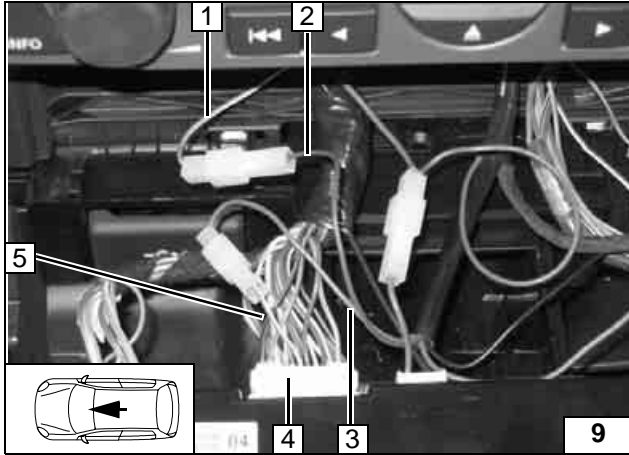
Make connections according to wiring diagram with enclosed connectors

- 1 Wire line gn/vi from fuse connector 30
- 2 Wire line rt from clock
- 4 Wire line gn/vi to connector C2655 Pin 1



connection power supply



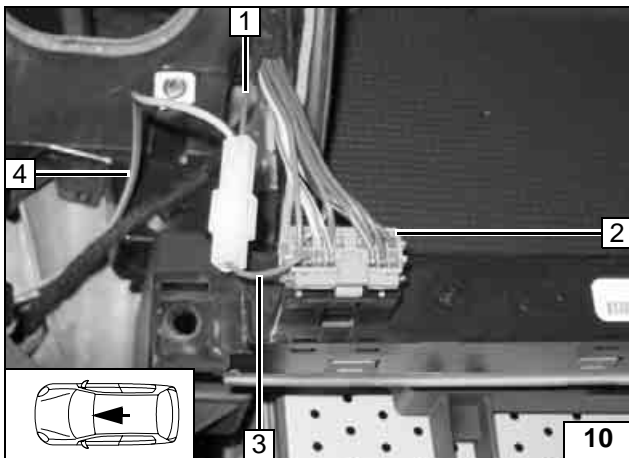


Connection to the 24-pin plug C1629 4 from the climate control panel  
Make connections in accordance with the wiring diagram with enclosed connections

- 1 wire line gn/ws for fan relay
- 2 wire line br from relay K3/30
- 3 wire line li from relay K3/87a
- 5 wire line gn/ws from plug C1629 Pin 7



**connection fanrelay**

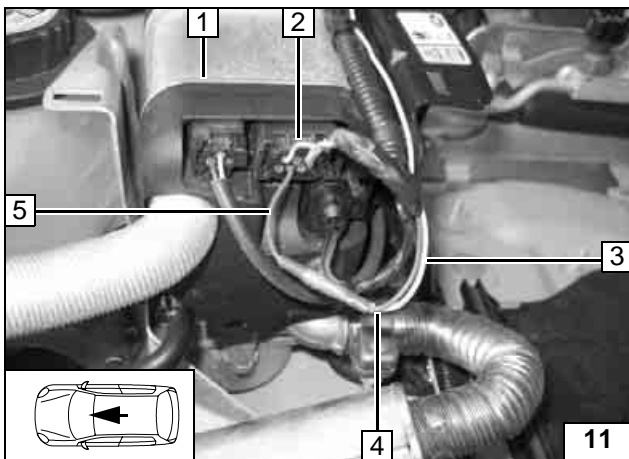


Connection at 16-pin connector 2 from the hazard switch.  
Make connections in accordance with the wiring diagram with enclosed connections

- 1 wire line gn from terminal 15
- 3 wire line gn to 16-pin connector Pin 2
- 4 wire line ge/rt from relay K3.1/86



**connection +15 hazzard lights**



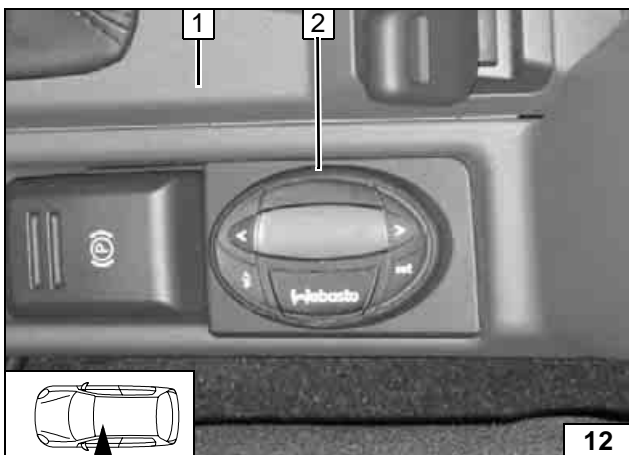
Connection to the 6-pin connector C0925 2 from the heater. Line rt of the switch-on signal [ES] is only available on the first vehicles of the model series !

Connect according to the wiring diagram using butt connectors .

- 1 Heater
- 3 wire line li rom clock W-Bus
- 4 wire line rt from switch-on signal [ES]
- 5 wire line rt to 6-pin plug C0925 Pin 2



**Connection heater**



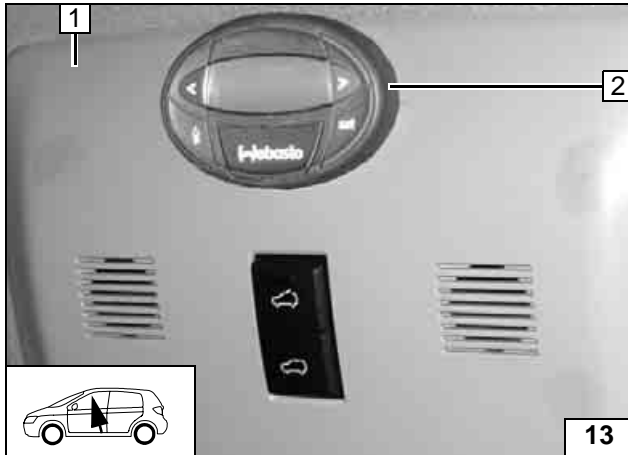
## Timer in center console

The location of the timer is in front of the end user assembly vote!

- 1 center console
- 2 preselector clock



**timer mounting**



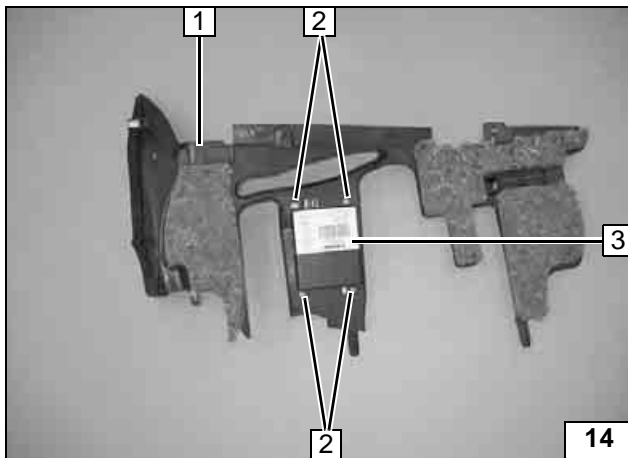
## option: Timer on interior lamp console

The extension cable Timer (70813B) must be ordered !

- 1 interior light console
- 2 preselector clock



Timer mounting

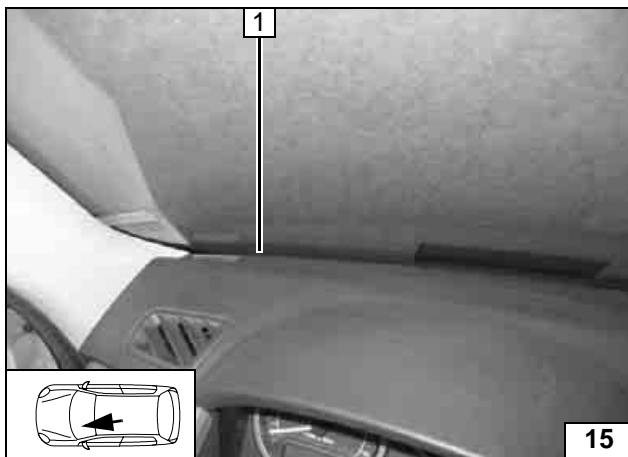


## Option Thermo Call

- 1 footwell panel left
- 2 Screw M5
- 3 Reciever Thermo call

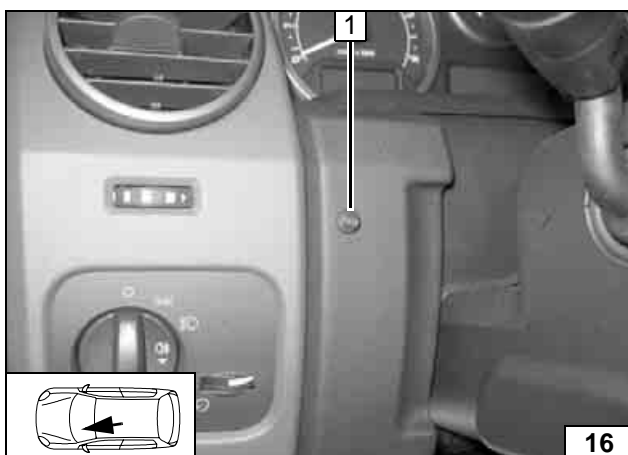


Reciever mounting



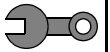
- 1 Installation location antenna

Antenna installation



- 1 Button/switch Thermo Call

Switch mounting

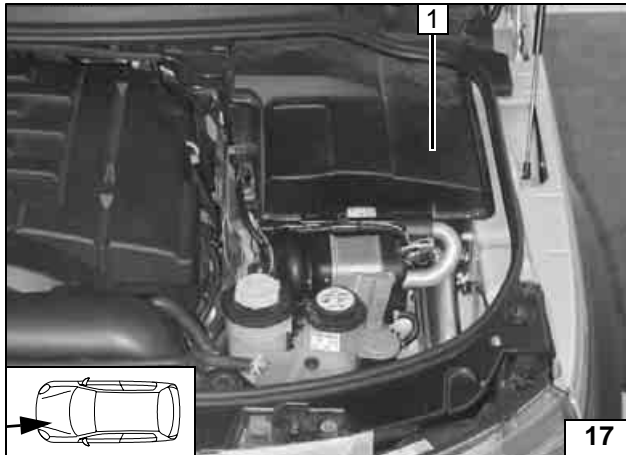


## Final work

### Attention!

Install disassembled parts in reverse order.  
Secure all loose cables with cable ties.

- Re connect the battery
- Read out the fault memory, if necessary, delete stored faults of the automatic climate control system
- Set the preselector clock
- Make manual air conditioning or automatic climate control settings according to "Operating instructions for the end customer"
- Check the function of the auxiliary heater, see operating instructions / installation instructions
- Attach label "Switch off parking heater before refueling" on left B-pillar



Attach visibly on Position 1 the information label from this kit



Information  
label  
attachment

## Operating instructions for the end-user / customer

Please remove this page and attach it to the vehicle operating instructions!

### Rule of thumb for the operation of the auxiliary heater: Travel time = heating time!

Before switching off the ignition, wait approx. 20 seconds until flaps have reached the desired positions!



Before parking the vehicle, make the following settings:



- 1 Air outlet on windscreen
- 2 Temperature on „max.“

For  
climatronic  
equipped  
vehicles

## Special operating instructions!

After switching on the ignition, the air conditioning control unit independently performs a reset of the air duct.

The LED of the Program / Defrost key flashes approx. 10 times!



After completion of the heating operation, this can be avoided by pressing the auxiliary switch on the ventilation symbol!

But note if you do so:

Before using the auxiliary heater for the next time, the auxiliary switch must always be set to the heating symbol immediately after switching off the ignition!