

# Water Heater



**Thermo Top V Parking Heater**



## Installation instructions

**Ford S-MAX / Galaxy (CD 34\*)** from Model 2006

**Ford Mondeo (CD 34\*)** from Model 2007

Gasoline

Left-hand drive vehicle

Automatic air-conditioning



### **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, specialised tools and equipment are required to install and repair Webasto heating and cooling systems. Only original Webasto parts must be used. For this, also see the catalog of air and water heater accessories from Webasto.

**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.

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## Validity

Manufacturer	Model	Type	EG-BE No./ ABE
Ford (D)	S-MAX	WA 6	e13 * 2001/116 * 0185 * ...
Ford (D)	Galaxy	WA 6	e13 * 2001/116 * 0185 * ...
Ford (D)	Mondeo	BA 7	e13 * 2001/116 * 0249 * ...

## S-MAX

Engine type	Engine model	Output in kW	Displacement in cm <sup>3</sup>
AO	Gasoline	107	1999
HU	Gasoline	162	2521

## Galaxy

Engine type	Engine model	Output in kW	Displacement in cm <sup>3</sup>
AO	Gasoline	107	1999

## Mondeo

Engine type	Engine model	Output in kW	Displacement in cm <sup>3</sup>
AO	Gasoline	107	1999
M14	Gasoline	118	2261
HU	Gasoline	162	2521

The installation location of a digital timer or push button should be confirmed with the end customer before installation.

## Heater / delivery scope

### Delivery scope:

Quantity	Description	Order No.
1	Delivery scope of Ford S-Max / Galaxy / Mondeo Diesel without control element	1311400B

### Required additionally for vehicles with automatic air conditioning:

Quantity	Description	Order No.
1	Kit for Automatic Air-Conditioning	1311421A

### Optional heater control either:

Quantity	Description	Order No.
1	Digital timer	9010869A
1	Telestart T80	9010870A
1	Telestart T91	9016028A
1	Thermo Call II	9016027A

### Required additionally when using Thermo Call and Telestart

Quantity	Description	Order No.
1	Y-Cable	9001505A

## Foreword

These installation instructions apply to gasoline vehicles **Ford S-MAX / Galaxy** from model year **2006** and **Ford Mondeo** vehicles from model year **2007** - for validity, see page 2 - assuming technical modifications to the vehicle do not affect installation, any liability claims excluded. Vehicle and engine types, equipment variants and national specifications not listed in these installation instructions have not been tested. The installation must be according to these "installation instructions" - Changes are not allowed.

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

However, where this is the case the stipulations in these "installation instructions" and "operating instructions" for the *Thermo Top V* should be observed.

**A fault may have been stored in the fault memory "Heating, ventilation and air conditioning" by the operation of the parking heater. This must be deleted in accordance with the manufacturer's specifications.**

## 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 must be provided with rub protection (cut-open fuel hose)!

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

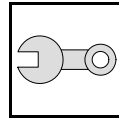
## Special tools

- Torque wrench for 2.0 - 10 Nm
- Hose clamping pliers
- Metric thread-setter kit
- Unlocking tool, Ford No.: GV 3301 (4x)

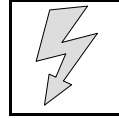
**Explanatory notes on document**

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.

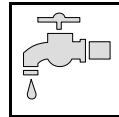
**Mechanical system**



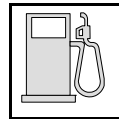
**Electrical system**



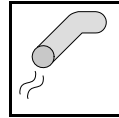
**Water**



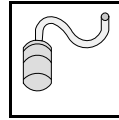
**Fuel**



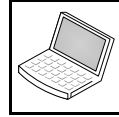
**Exhaust gas**



**Combustion air**



**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 these, the general installation instructions of the Webasto operating elements and to vehicle-specific documents of the manufacturer



Reference to a special technical feature.



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

**All dimensions are in mm! Install fuel connections without impacts.**

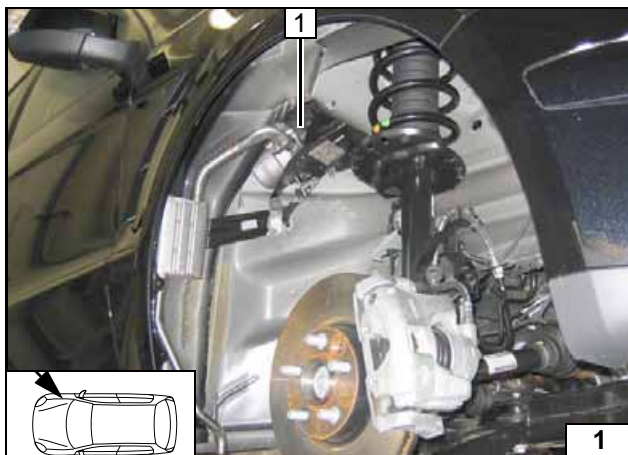
**Tightening torque of 5x13 heater bolts = 7Nm!**

**Tightening torque of 5x15 bolt of water connection piece retaining plate = 7Nm!**

**Preliminary work**

**WARNING!**

- Open the fuel tank cap and vent the fuel tank.
- Close the tank cap again.
- Disconnect the battery "earth" or "ground" connection.
- Depressurize the cooling system.
- Copy the factory number from the original type label to the duplicate type label.
- Remove years that do not apply from the duplicate label.
- Attach the duplicate label (type label) in the appropriate place.
- Mount the information sign on the cover of the diagnosis connection.
- Remove the engine design cover.
- Remove the battery and the battery carrier.
- Remove the air filter box.
- Remove the windshield wipers (S-MAX and Galaxy only).
- Remove the coolant reservoir cap (S-MAX and Galaxy only).
- Remove the coolant reservoir trim in the engine compartment (S-MAX and Galaxy only).
- Remove the bracket of the coolant hoses (S-MAX and Galaxy only); or loosen (Mondeo only)
- Remove the right front wheel.
- Remove the wheel well trim on the right.
- Remove the lower engine cover.
- Remove the cover of the fuel line under the vehicle (S-MAX and Galaxy only)
- Remove the front-axle support cover (Mondeo only)
- Remove the fuel tank in accordance with the manufacturers specifications.
- Remove the switch or trim strip above the A/C control panel/radio or A/C/navigation control unit [clipped in] (S-MAX and Galaxy only).
- Remove the A/C control panel/radio or A/C/navigation control unit.
- Remove the glove compartment.
- Remove the cover of the A-pillar trim on the right (S-MAX and Galaxy only).
- Remove the cover of the centre console/shift lever cover.
- Remove the lower instrument panel trim on the front passenger side (Mondeo only).
- Detach the fuse box [SJB] and fold it down.



**Heater installation location**

1 Heater

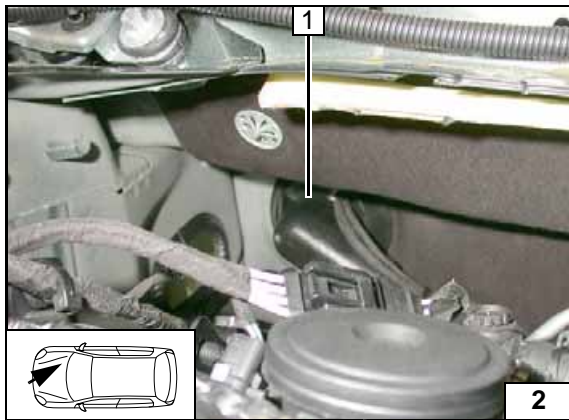
**Installation location**



**Electrical system**

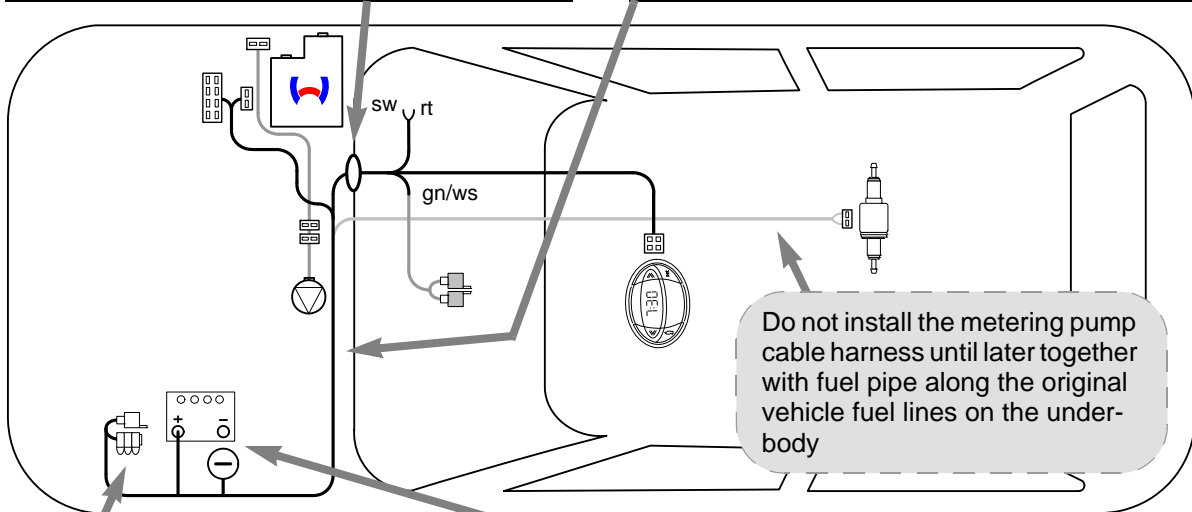
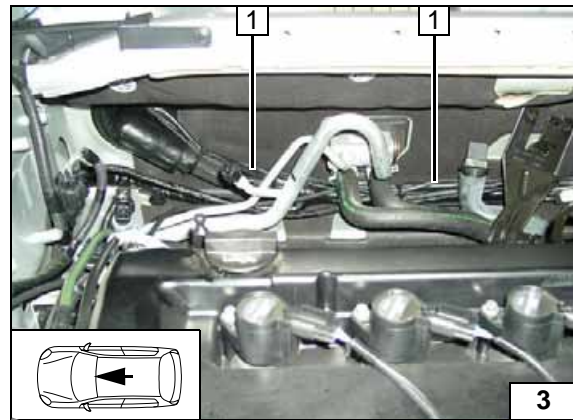
**Wiring harness pass through**

1 Protective rubber plug

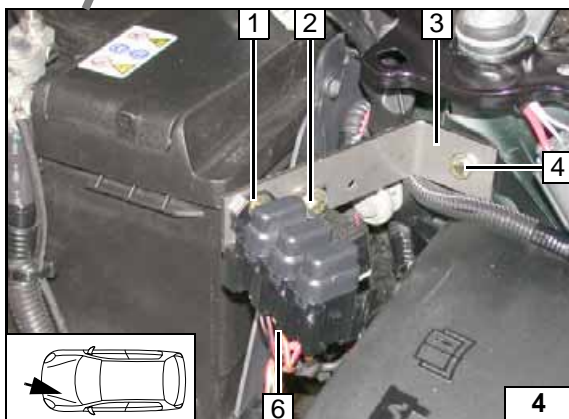


**Routing in engine compartment**

1 Wiring harness of heater



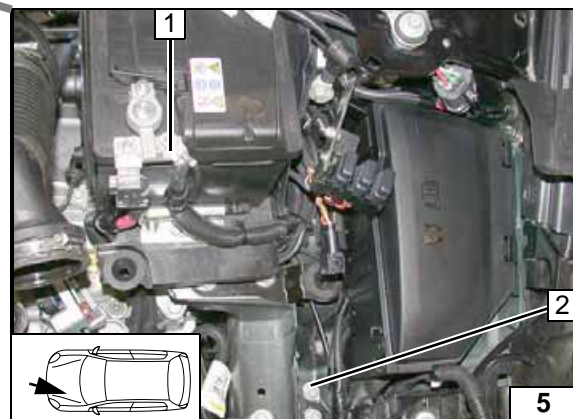
**Wiring harness installation diagram**



**Fuse holder, K3 relay**

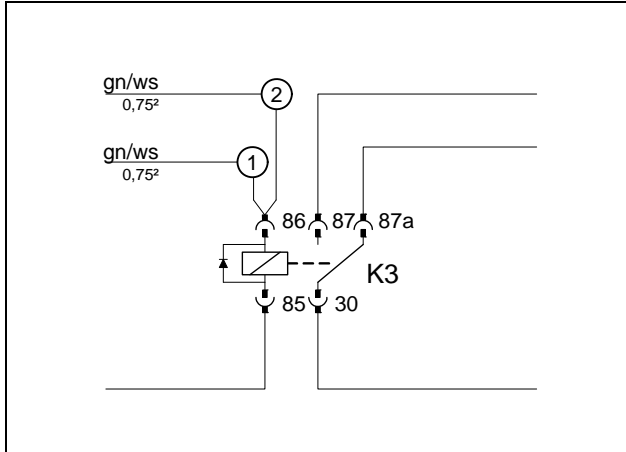
Drill out hole at position 1 to 5.5 mm dia.

- 1 Retaining plate of fuse holder, M5x16 bolt, washers, nut
- 2 K3 relay, M5x16 bolt, washers, nut
- 3 Fuse holder
- 4 M6x12 bolt, original vehicle hole, M6 flanged nut



**Power supply for wiring harness of heater**

- 1 Connection of positive battery terminal
- 2 Original vehicle ground point

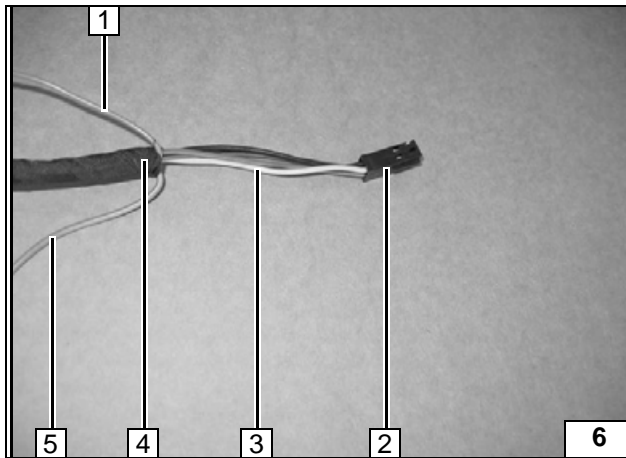


**Preparing electrical system**

Install 2,500 mm green/white (gn/ws) wire section **1** in included protective sleeving.



**Premounting wiring harness**



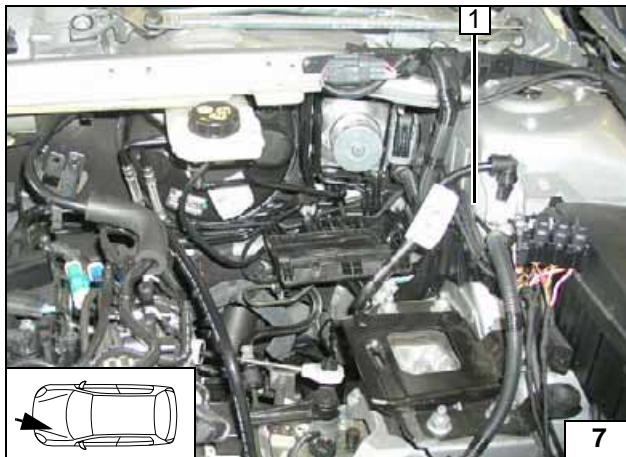
**Preparing wiring harness**

Mount yellow (ge) wire **3** in free socket of 4-pin connector **2**.

- 1** Insulate brown (br) wire and tie back
- 4** Wiring harness of heater
- 5** Insulate violet (vi) wire and tie back



**Preparing wiring harness**



Route wiring harness of heater **1** along original vehicle wiring harness and secure with cable ties.

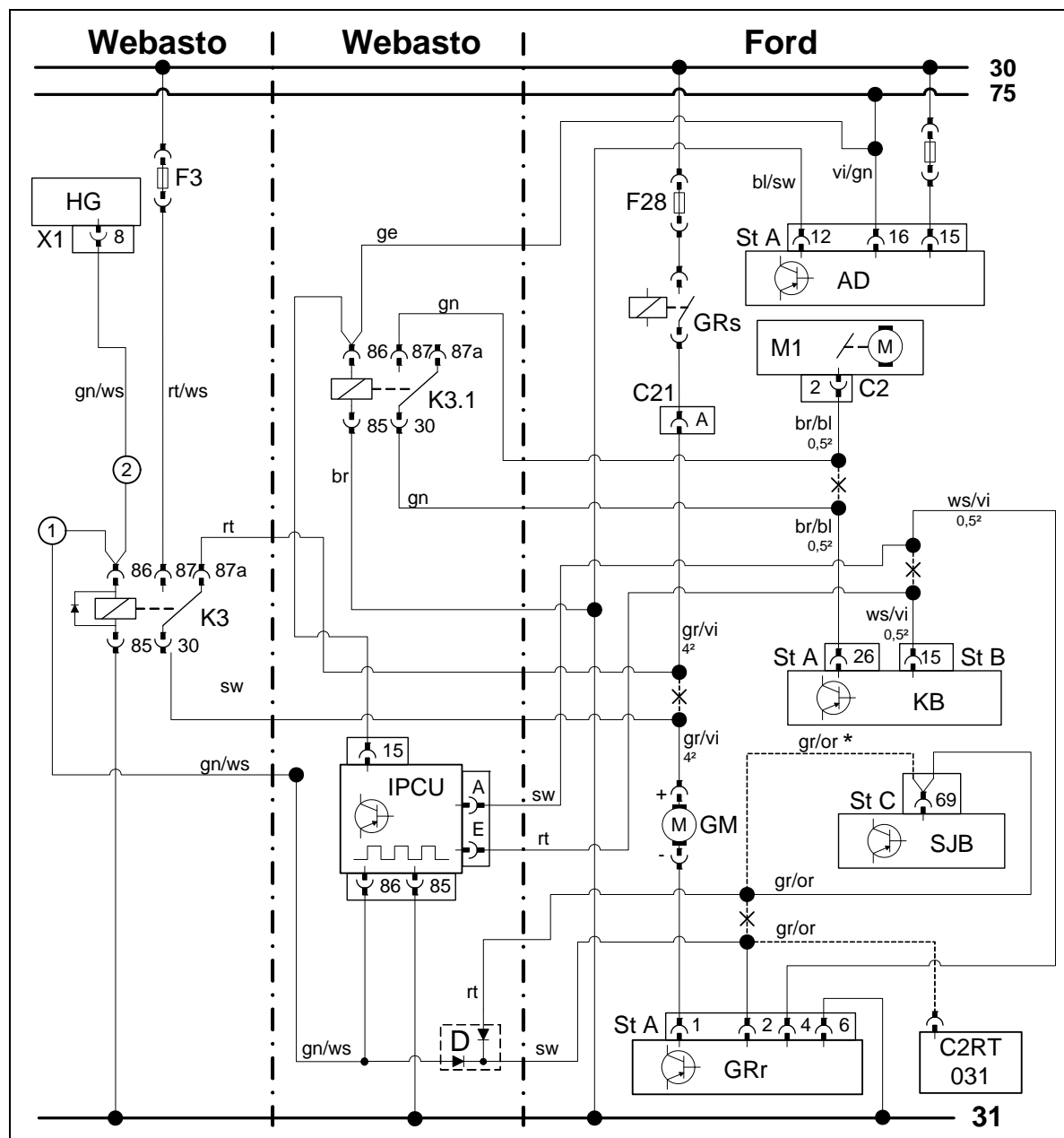


**Routing in engine compartment**



Control of automatic air-conditioning version A

Vehicle equipment if violet/green (vi/gn) wire is present on radio connector A, PIN 16.

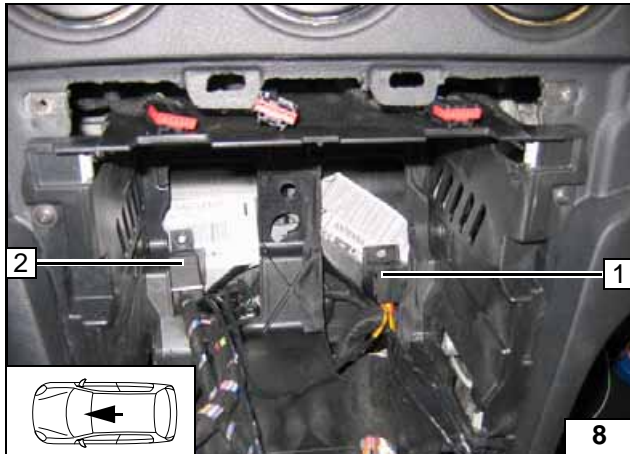


Wiring diagram

Webasto components		Vehicle components		Colours and symbols	
HG	TT-V heater	GM	Fan motor	rt	red
X1	8-pin connector	GRs	Fan relay	ws	white
F3	Fuse 25A	GRr	Fan controller	sw	black
K3	Fan relay	KB	A/C control panel	br	brown
K3.1	Additional relay	F28	Fan fuse	gn	green
IPCU	Pulse width modulator	M1	Positioning motor of air flap	bl	blue
D	Diodes integrated in wiring harness	SJB	Smart Junction Box	ge	yellow
<b>IPCU adjustment values</b>		C21	Black connector	vi	violet
Voltage: 10 V		AD	Radio	gr	gray
Frequency: 400 Hz		C2T031	Receiver WFS		
Duty cycle: 37 %		*	depending on equipment		
Function: Low-side				X	Cutting point
				Wiring colours may vary.	

Legends

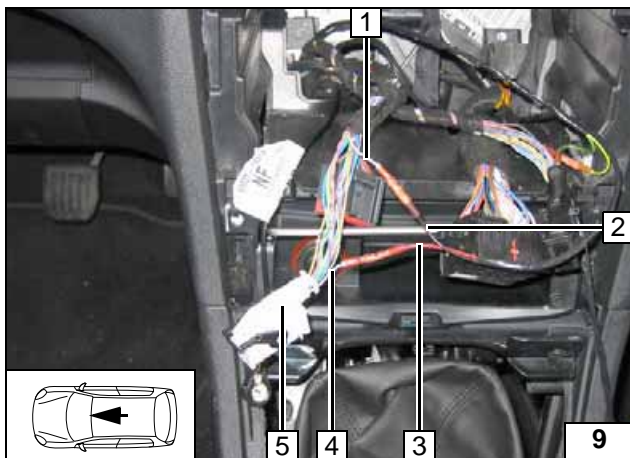




Cut dual lock 1x in centre.  
Fasten relay K3.1 **2** and IPCU **1** with dual lock as shown.  
Watch space requirement of A/C control unit or radio and their wiring harnesses.



**Installing IPCU and K3.1 relay**

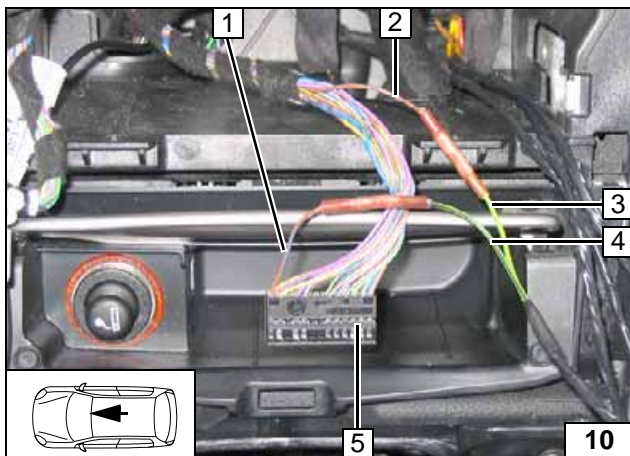


Connection on white (ws) connector B **5** from A/C control panel, Pin 15.  
Make connections as shown in wiring diagram with existing connectors.



**Connection of A/C control panel / IPCU**

- 1** White/violet (ws/vi) wire to fan controller
- 2** Black (sw) wire from IPCU/A
- 3** Red (rt) wire from IPCU/E
- 4** White/violet (ws/vi) wire from connector of A/C control panel

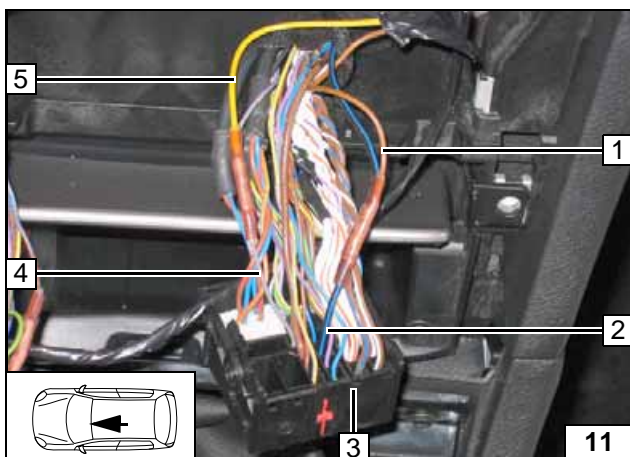


Connection on black (sw) connector A **5** from A/C control panel, Pin 26.  
Make connections as shown in wiring diagram with existing connectors.



**Connection of A/C control panel / K3.1 relay**

- 1** Brown/blue (br/bl) wire from connector of A/C control panel
- 2** Brown/blue (br/bl) wire to flap positioning motor
- 3** Green (gn) wire from K3.1/87
- 4** Green (gn) wire from K3.1/30

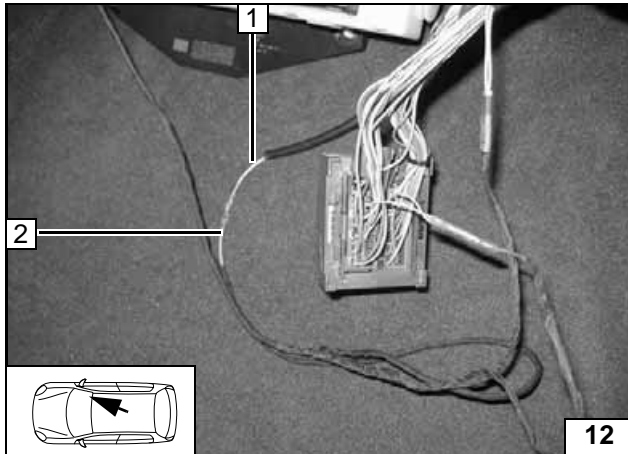


Connection on connector **3** from radio.  
Make connections as shown in wiring diagram with existing connectors.



**Connection of K3.1 to radio**

- 1** Brown (br) wire from K3.1/85
- 2** Black/blue (sw/bl) wire (ground)
- 4** Violet/green (vi/gn) wire (Terminal 75)
- 5** Yellow (ge) wire from K3.1/86

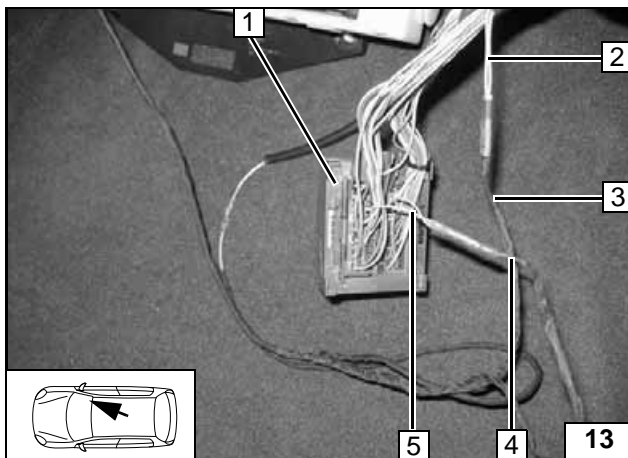


Produce connections as shown in wiring diagram.

- 1 Green/white (gn/ws) wire from K3/86
- 2 Green/white (gn/ws) wire



**Connec-  
tion of  
green/whit  
e (gn/ws)  
wire from  
K3/86**



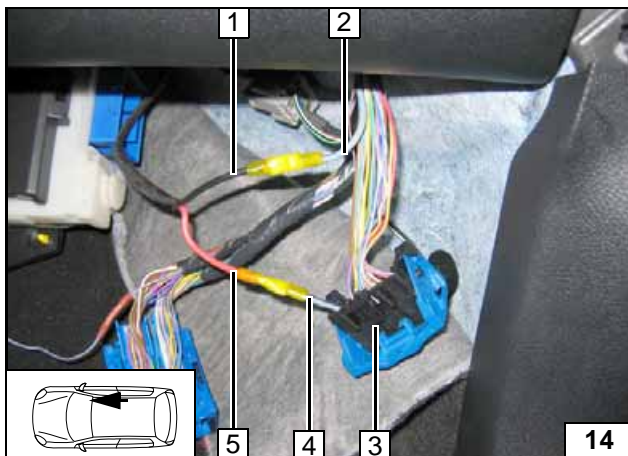
Connection on blue (bl) connector 1, Pin 69. Produce connections as shown in wiring diagram.

Depending on vehicle equipment, two cables may be present on Pin 69.

- 2 Gray/orange (gr/or) wire to fan controller (see wiring diagram)
- 3 Black (sw) wire
- 4 Red (rt) wire
- 5 Gray/orange (gr/or) wire to SJB connector (see wiring diagram)



**Connec-  
tion of SJB  
connector**



Connection on black (sw) connector 3. Produce connections as shown in wiring diagram.

- 1 Black (sw) wire from relay K3/30
- 2 Gray/violet (gr/vi) to fan motor
- 4 Gray/violet (gr/vi) wire
- 5 Red (rt) wire from relay K3/87a

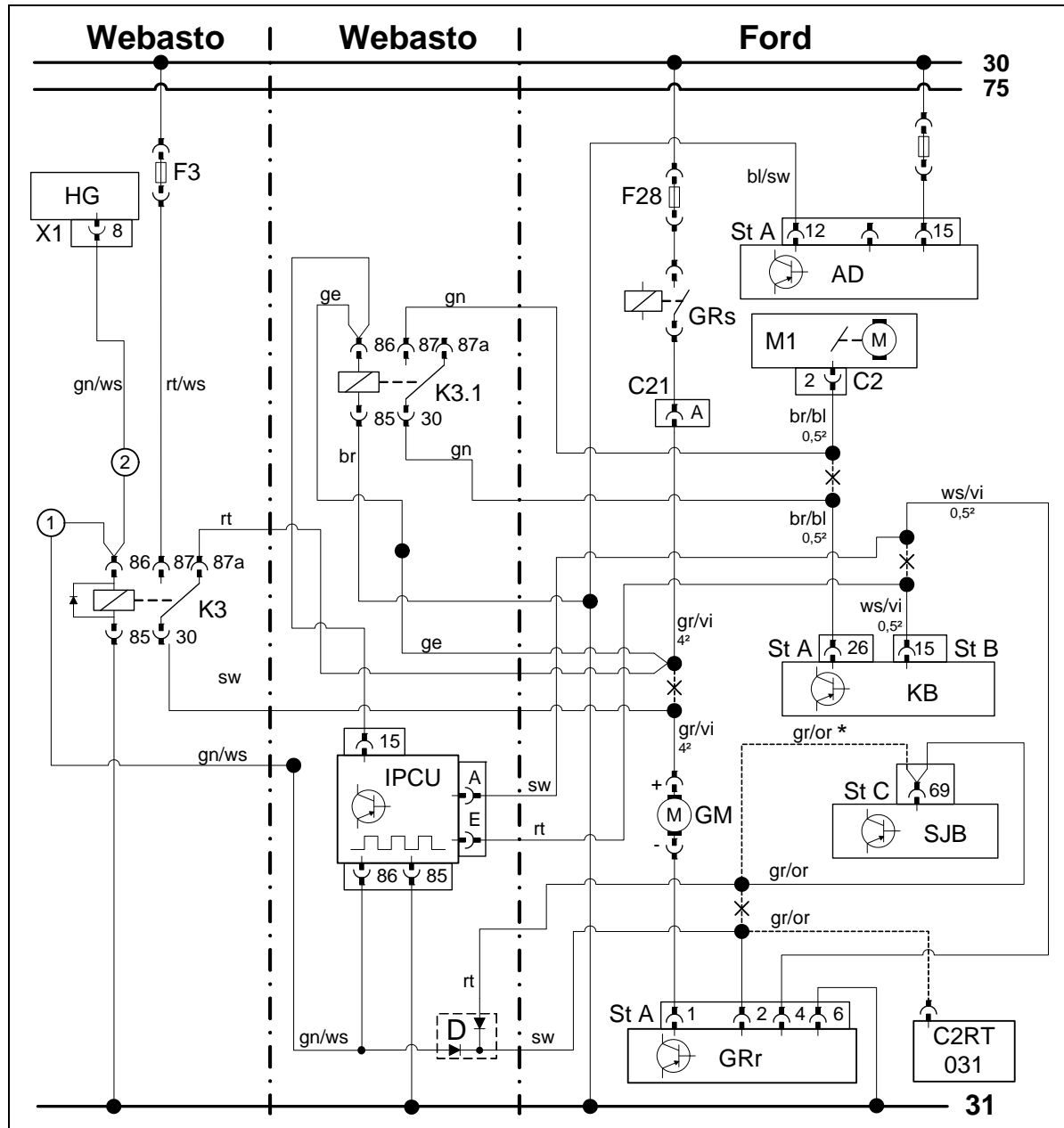


**Connec-  
ting fan mo-  
tor**



Control of automatic air-conditioning version B

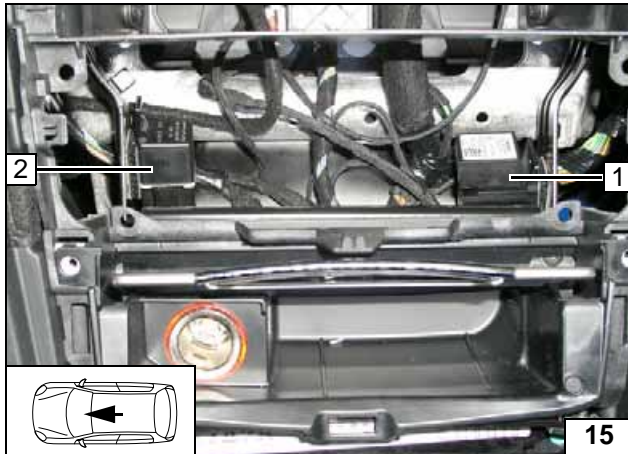
Vehicle equipment if violet/green (vi/gn) wire is not present on radio connector A, PIN 16.



Wiring diagram

Webasto components		Vehicle components		Colours and symbols	
HG	TT-V heater	GM	Fan motor	rt	red
X1	8-pin connector	GRs	Fan relay	ws	white
F3	Fuse 25A	GRr	Fan controller	sw	black
K3	Fan relay	KB	A/C control panel	br	brown
K3.1	Additional relay	F28	Fan fuse	gn	green
IPCU	Pulse width modulator	M1	Positioning motor of air flap	bl	blue
D	Diodes integrated in wiring harness	SJB	Smart Junction Box	ge	yellow
<b>IPCU adjustment values</b>		C21	Black connector	vi	violet
Voltage: 10 V		AD	Radio	gr	gray
Frequency: 400 Hz		C2T031	Receiver WFS		
Duty cycle: 37 %		*	depending on equipment		
Function: Low-side				X	Cutting point
				Wiring colours may vary.	

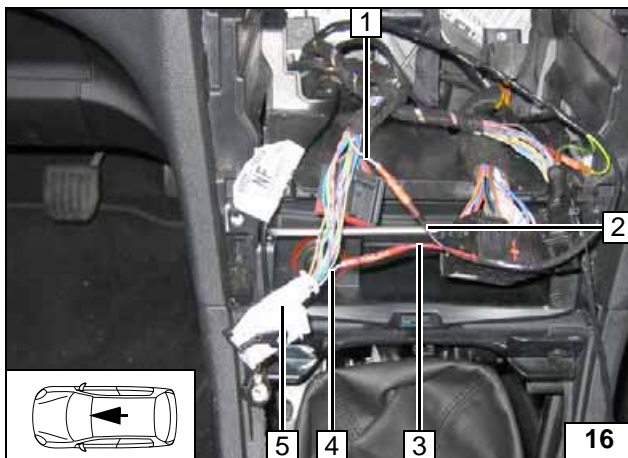
Legends



Cut dual lock 1x in centre.  
Fasten relay K3.1 2 and IPCU 1 with dual lock as shown.  
Watch space requirement of A/C control unit or radio and their wiring harnesses.



**Installing IPCU and K3.1 relay**

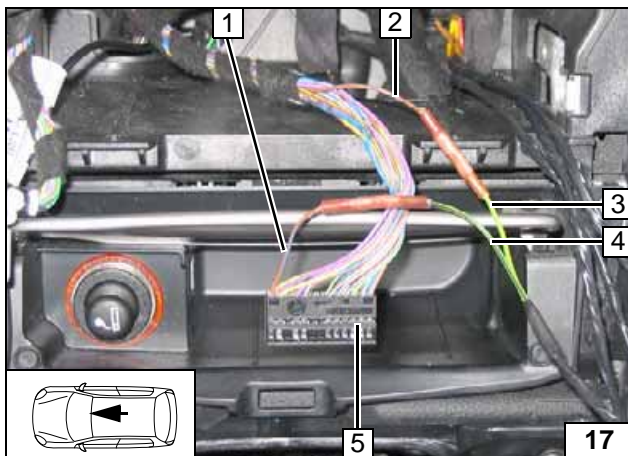


Connection on white (ws) connector B 5 from A/C control panel, Pin 15.  
Produce connections as shown in wiring diagram.



**Connection of A/C control panel / IPCU**

- 1 White/violet (ws/vi) wire to fan controller
- 2 Black (sw) wire from IPCU/A
- 3 Red (rt) wire from IPCU/E
- 4 White/violet (ws/vi) wire from connector of A/C control panel

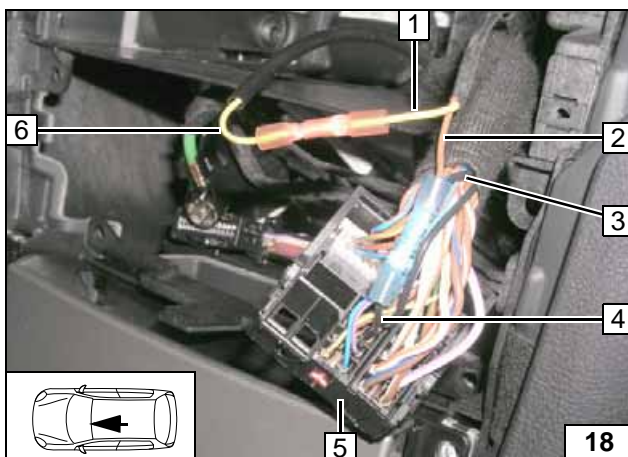


Connection on black (sw) connector A 5 from A/C control panel, Pin 26.  
Produce connections as shown in wiring diagram.



**Connection of A/C control panel / K3.1 relay**

- 1 Brown/blue (br/bl) wire from connector of A/C control panel
- 2 Brown/blue (br/bl) wire to flap positioning motor
- 3 Green (gn) wire from K3.1/87
- 4 Green (gn) wire from K3.1/30



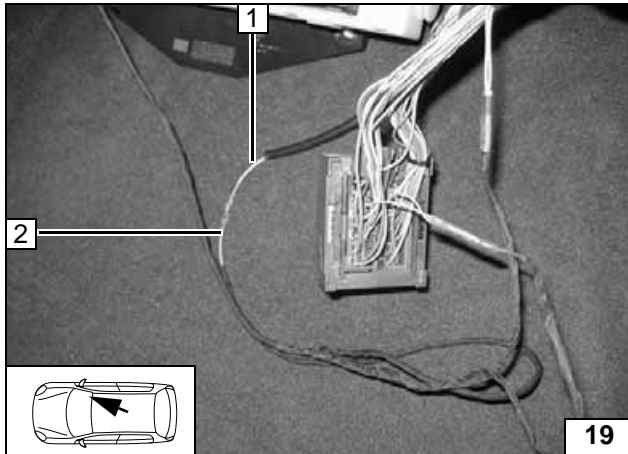
Connection on connector 5 from radio.  
Produce connections as shown in wiring diagram.



**Connection of K3.1/85 on radio**

Connect yellow (ge) wire 1 from K3.1/86 to yellow (ge) wire 6 and route in protective sleeving into footwell on front passenger side.

- 2 Brown (br) wire from K3.1/85
- 3 Black/blue (sw/bl) wire (ground)
- 4 Black/blue (sw/bl) wire (ground) from connector Pin 12

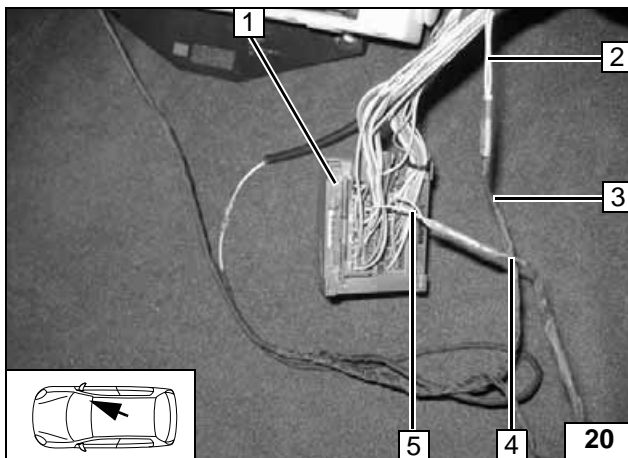


Produce connections as shown in wiring diagram.

- 1 Green/white (gn/ws) wire from K3/86
- 2 Green/white (gn/ws) wire



**Connec-  
tion of  
green/whit  
e (gn/ws)  
wire from  
K3/86**



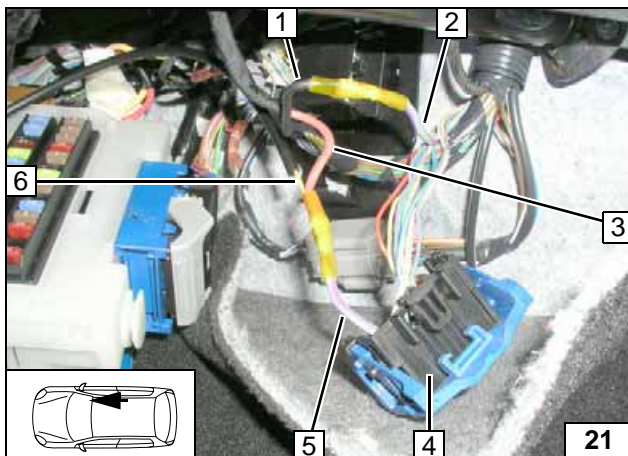
Connection on blue (bl) connector 1, Pin 69. Produce connections as shown in wiring diagram.

Depending on vehicle equipment, two cables may be present on Pin 69.

- 2 Gray/orange (gr/or) wire to fan controller (see wiring diagram)
- 3 Black (sw) wire
- 4 Red (rt) wire
- 5 Gray/orange (gr/or) wire to SJB connector (see wiring diagram)



**Connec-  
tion of SJB  
connector**



Connection on black (sw) connector 4. Produce connections as shown in wiring diagram.

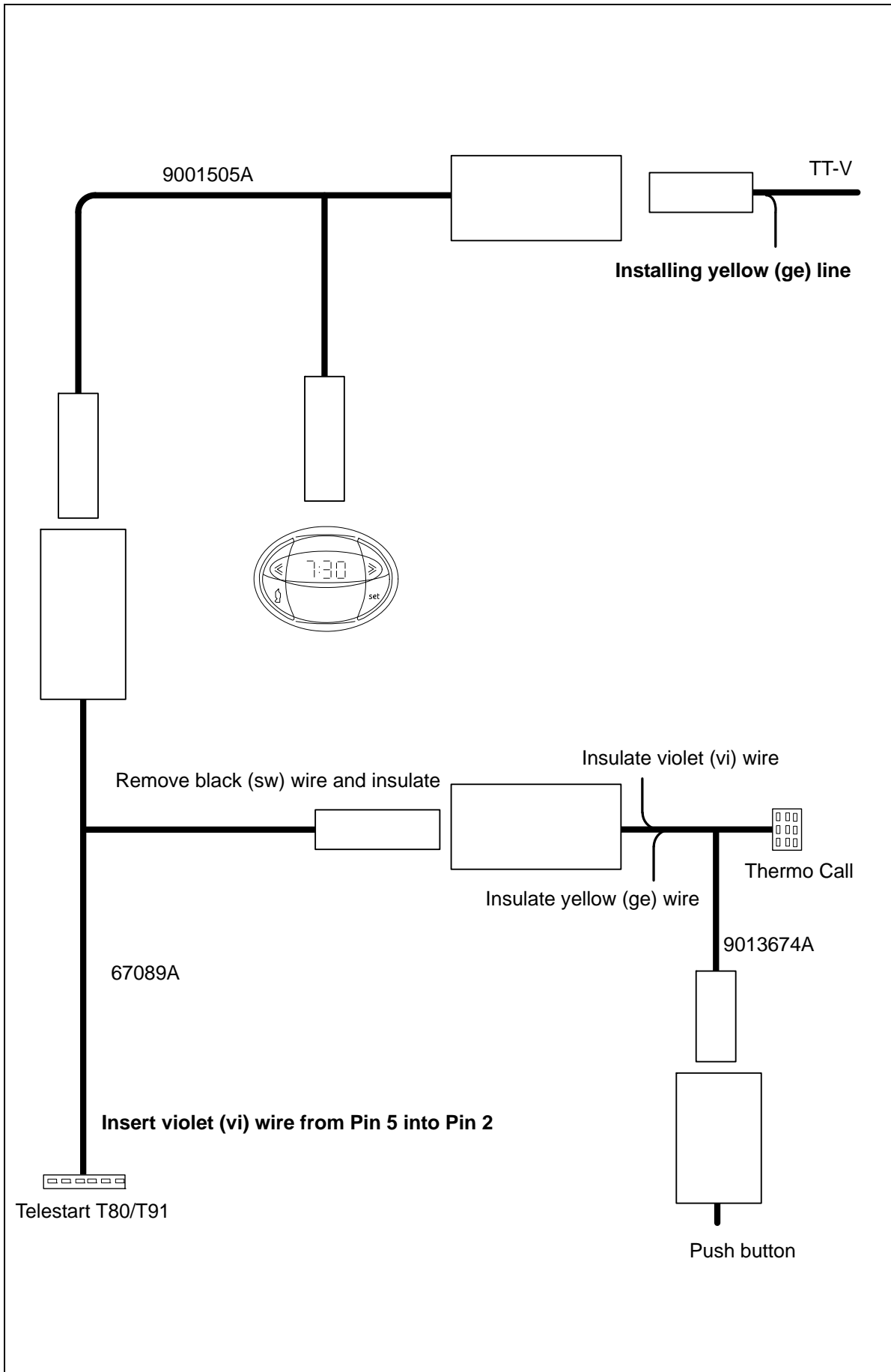
- 1 Black (sw) wire from relay K3/30
- 2 Gray/violet (gr/vi) to fan motor
- 3 Red (rt) wire from relay K3/87a
- 5 Gray/violet (gr/vi) from connector
- 6 Yellow (ge) wire from relay K3.1/86

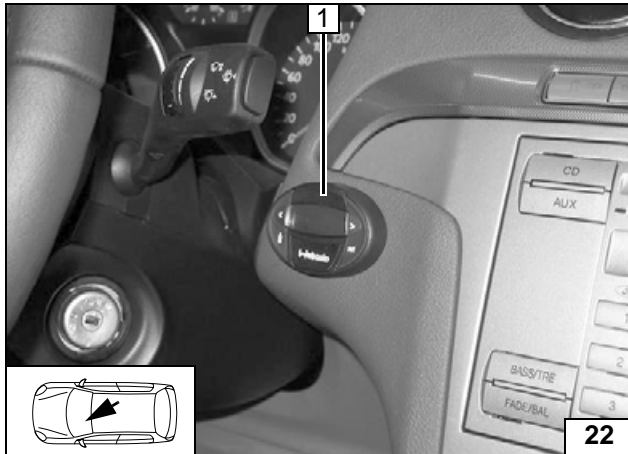


**Connect-  
ing fan mo-  
tor**



Connection diagram for heater control



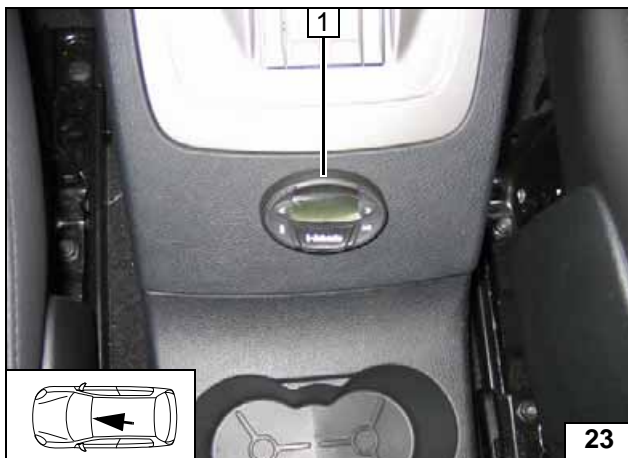


**Digital timer**

**S-MAX / Galaxy Version A**

1 Digital timer

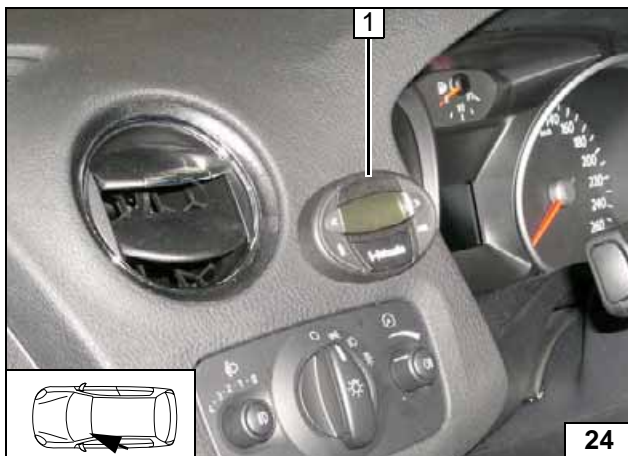
**Installing digital timer**



**S-MAX / Galaxy Version B**

1 Digital timer

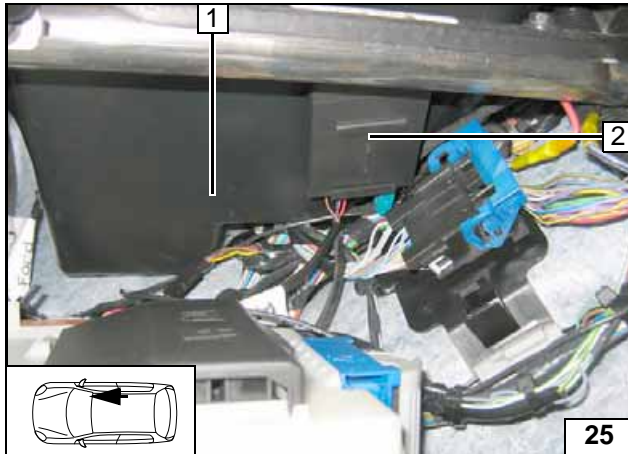
**Installing digital timer**



**Mondeo**

1 Digital timer

**Installing digital timer**



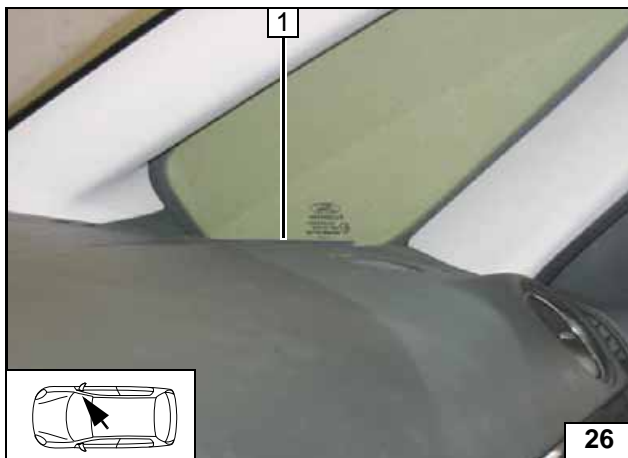
**Remote option (Telestart)**

**S-MAX / Galaxy**

- 1 Underside of glove compartment
- 2 Telestart receiver, dual lock



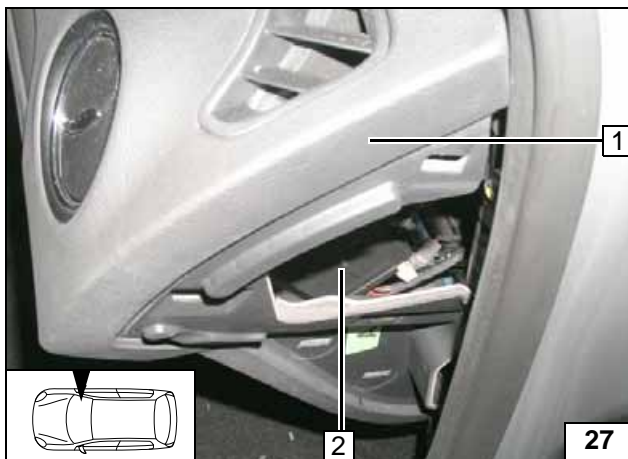
**Installing receiver**



- 1 Antenna



**Installing antenna**

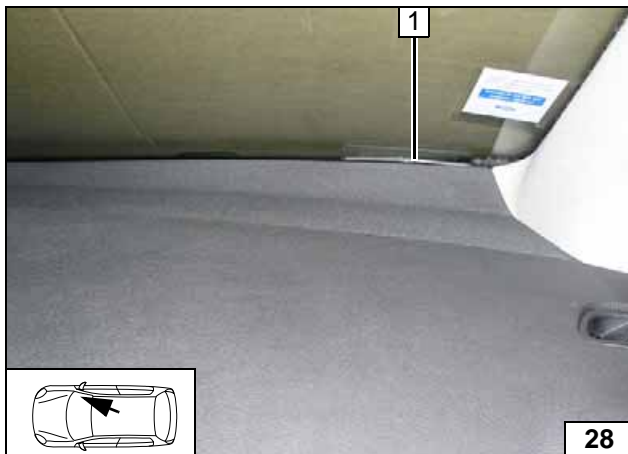


**Mondeo**

- 1 Instrument panel on front passenger side
- 2 Telestart receiver, dual lock



**Installing receiver**

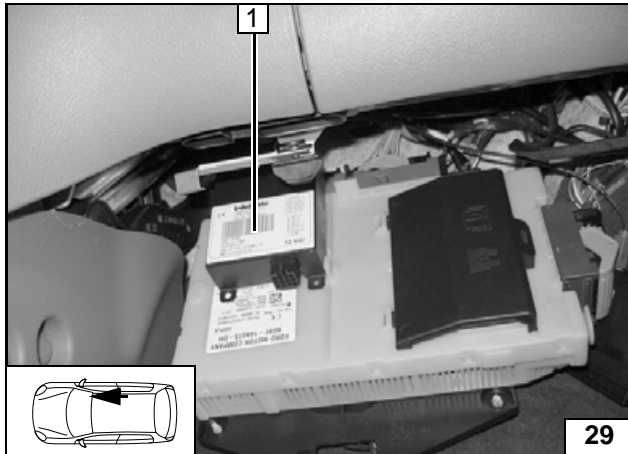


- 1 Antenna



**Installing antenna**





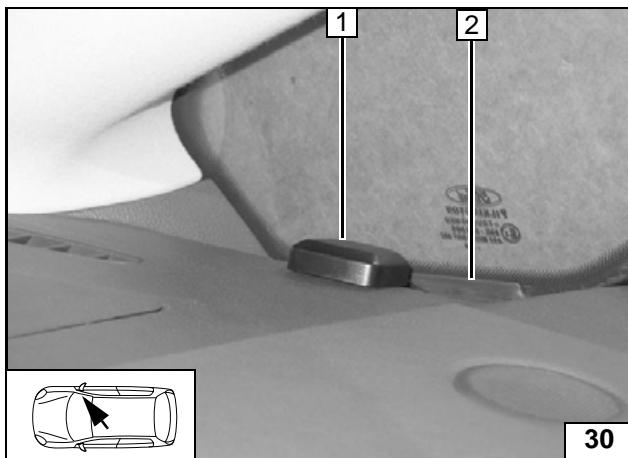
**Thermo Call option**

**S-MAX and Galaxy**

- 1 Thermo Call, dual lock



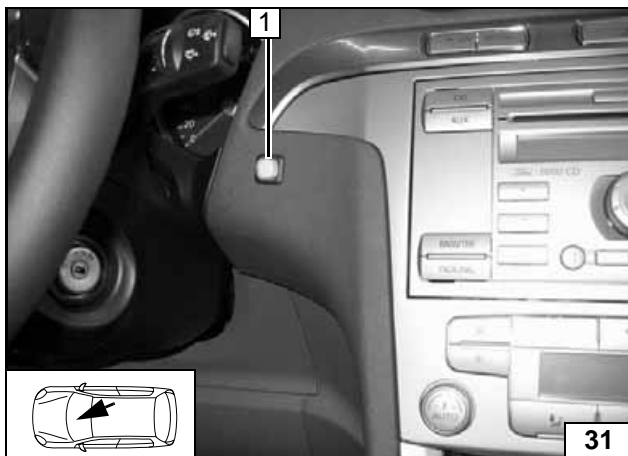
**Installing receiver**



- 1 GPS antenna (Thermo Call Locate only)
- 2 GSM antenna



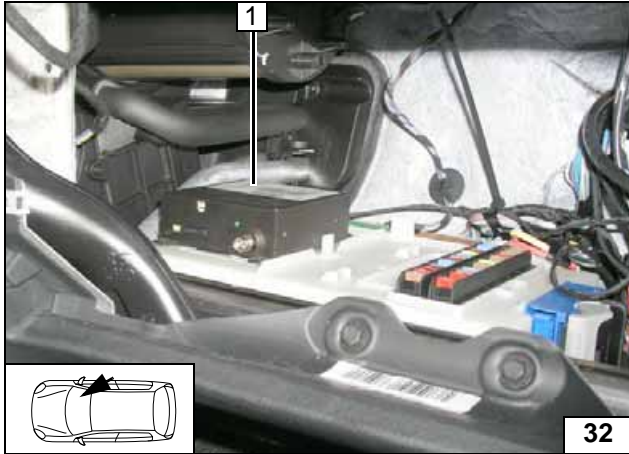
**Installing antenna**



- 1 Push button



**Installing push button**

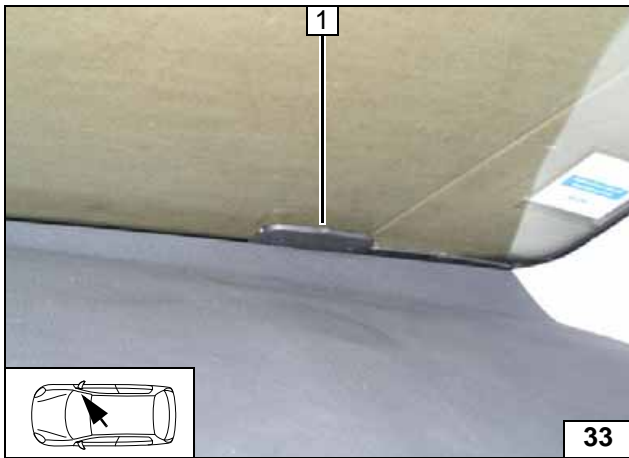


**Mondeo**

1 Thermo Call, dual lock



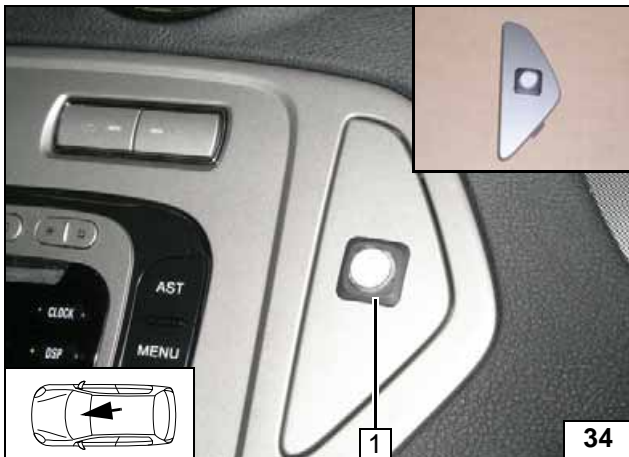
**Installing receiver**



1 Antenna



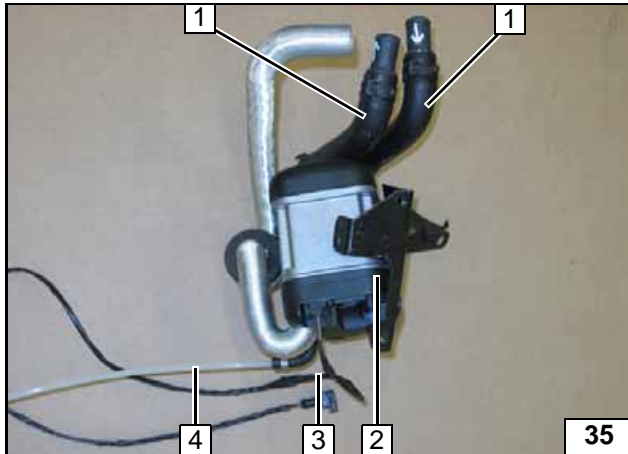
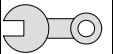
**Installing antenna**



1 Push button



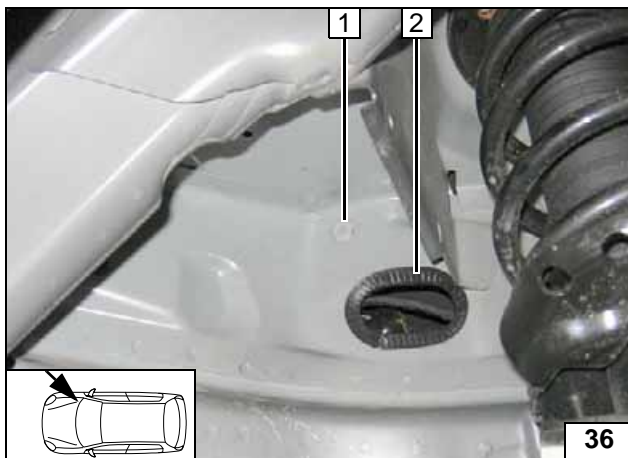
**Installing push button**



**Premounting heater**

Mark premounted coolant hoses **1** [2x] in accordance with direction of flow and connect adapter wiring harness of circulating pump **3**.

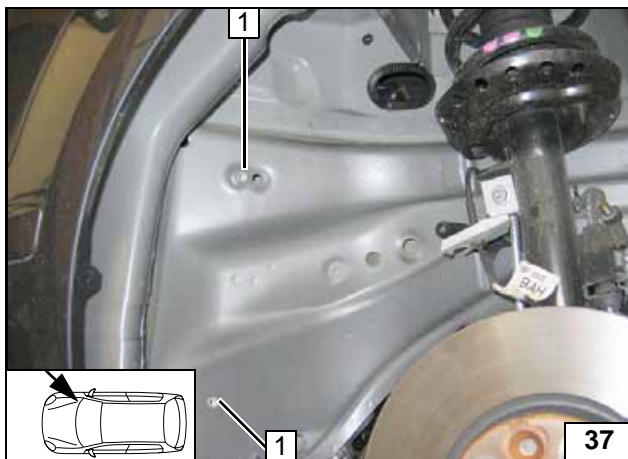
- 2** Heater
- 4** Fuel line, moulded hose, 10 mm dia. hose clamp



Install cable grommet **1** and edge protection section **2**.



**Preparing installation location**



Mount M6 rivet nuts **1** [2x] in existing holes as shown.



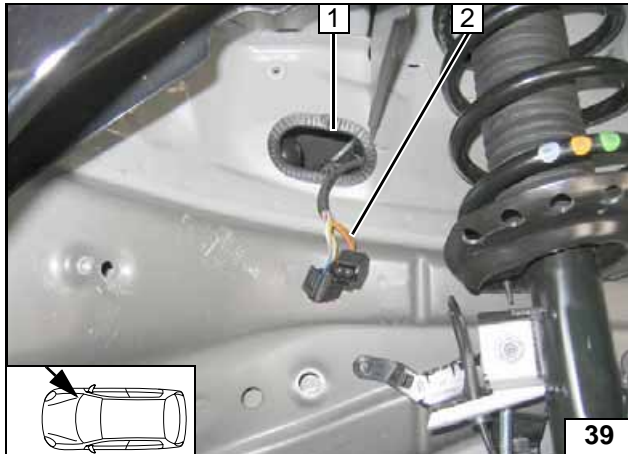
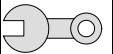
**Installing rivet nuts**



Remove water drain **1** from wheel arch.

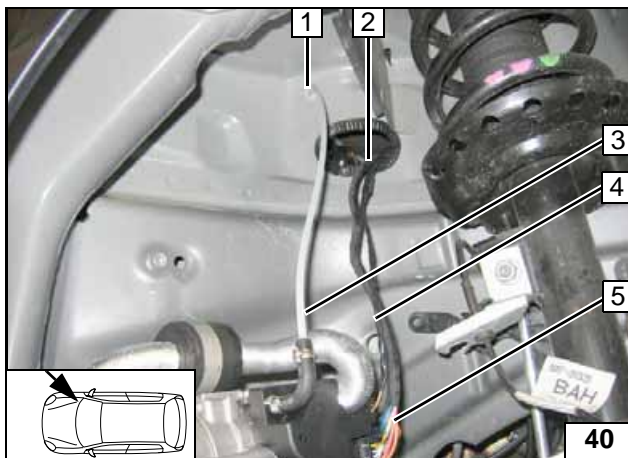


**Preparing exhaust pipe**



- 1 Pass through
- 2 Wiring harness of heater

Installing wiring harness of heater

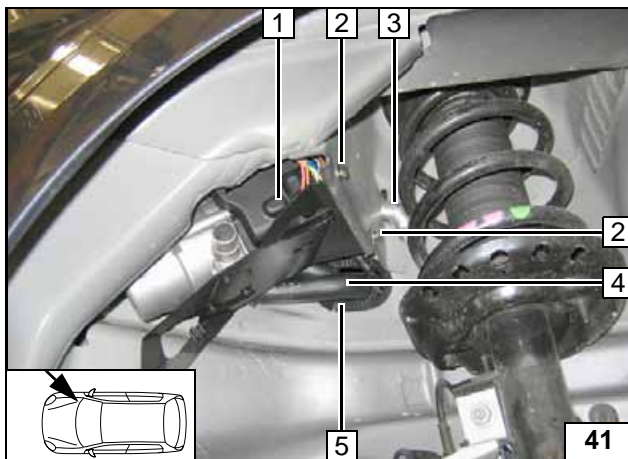


**Installing heater**

Guide fuel line 3 through grommet 1 into engine compartment.  
Route adapter cable of circulating pump 4 through pass through 2 into engine compartment.  
Connect wiring harness of heater to heater 5.



Installing heater

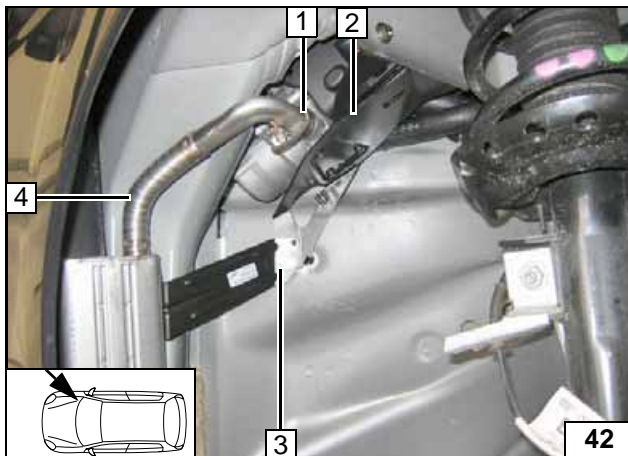


Loosely mount heater 1 as shown.

- 2 M6x20 bolt [2x], spring lockwasher [2x], large diameter washer [2x]
- 3 Combustion air pipe
- 4 Coolant hoses
- 5 Pass through



Installing heater



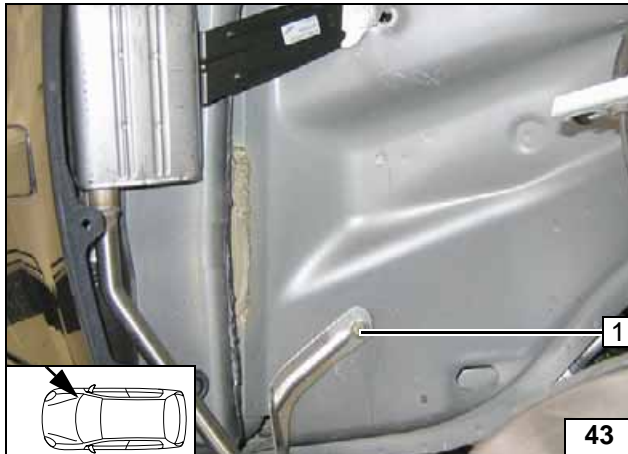
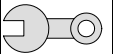
**Installing exhaust system**

Install exhaust system 4 on heater 2 as shown.  
Ensure sufficient distance to neighbouring components.

- 1 Hose clamp
- 3 M6x20 screw, spring lock washer, washer

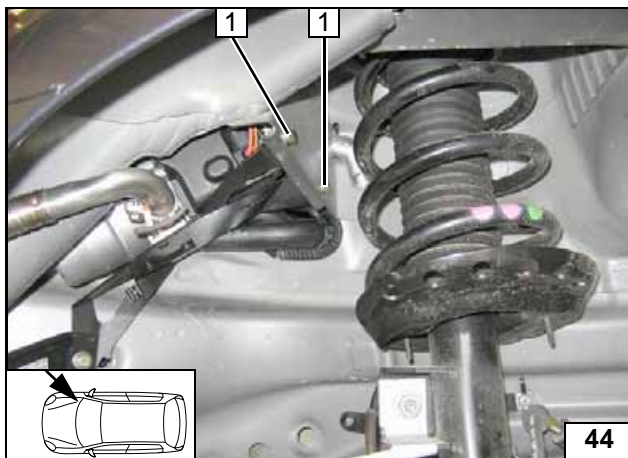


Installing exhaust pipe



1 M6x20 screw, spring lock washer, washer

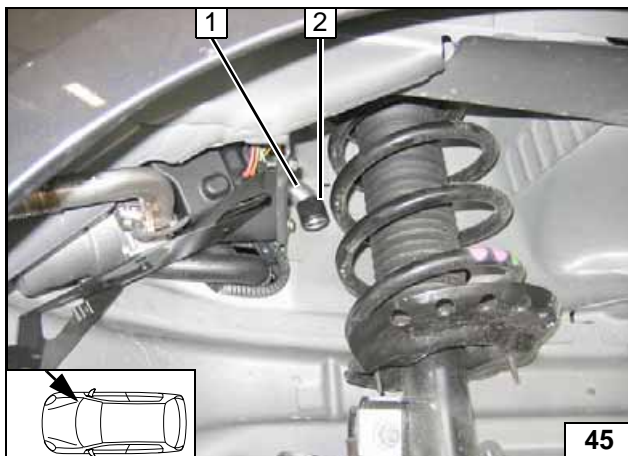
Installing exhaust pipe



Tighten M6 bolt 1 [2x].



Installing heater



Screw protective cap 2 onto intake hose 1.



Installing protective cap on combustion air pipe



**Fuel**

**CAUTION!**

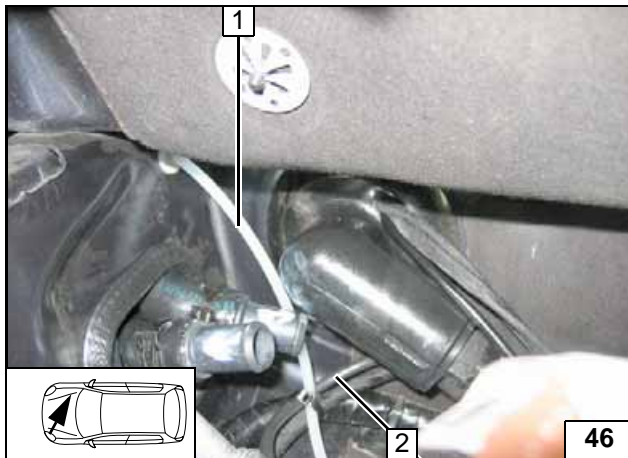
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

Catch any fuel running off with an appropriate container.

Install fuel line and metering-pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties. Mount the fuel line and wiring harness with rub protection on sharp edges.

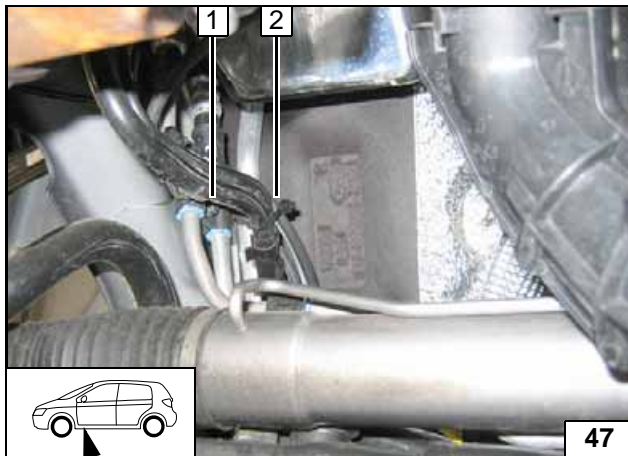
**WARNING!**

The fuel line and wiring harness are routed to the metering pump in as shown in the wiring harness routing diagram.



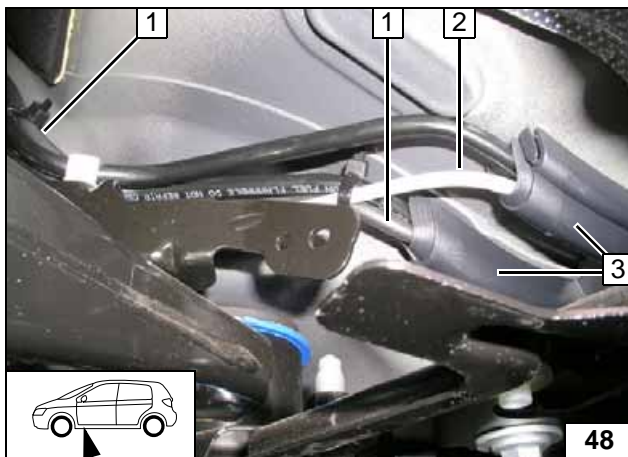
Route fuel line 1 and metering-pump wiring harness 2 to underbody and secure on original vehicle lines with cable ties.

Routing lines



Route fuel line and metering-pump wiring harness 2 to underbody and secure on original vehicle 1 with cable ties.

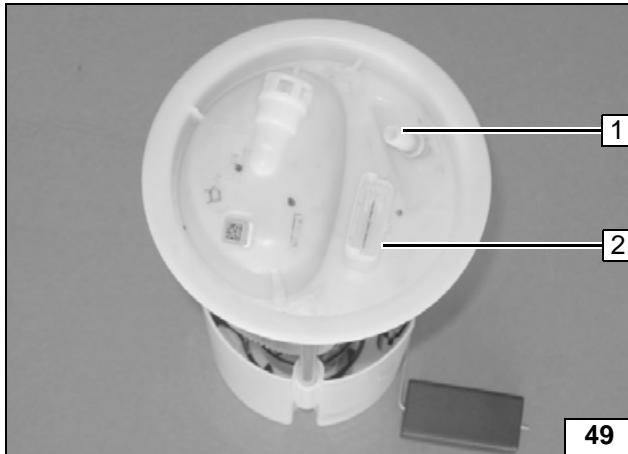
Routing lines



Secure lines with cable ties.

- 1 Metering pump wiring harness
- 2 Fuel line
- 3 Cover of original vehicle fuel lines

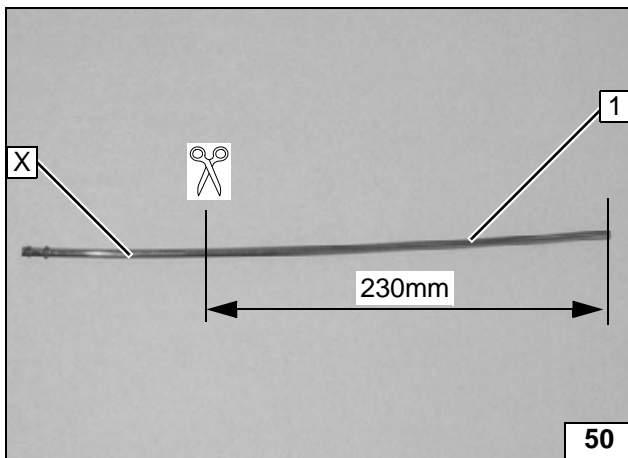
Routing lines into cover



Remove fuel-tank sending unit 1 in accordance with manufacturer's specifications. Cut approx. 3 mm off blind connection 1.



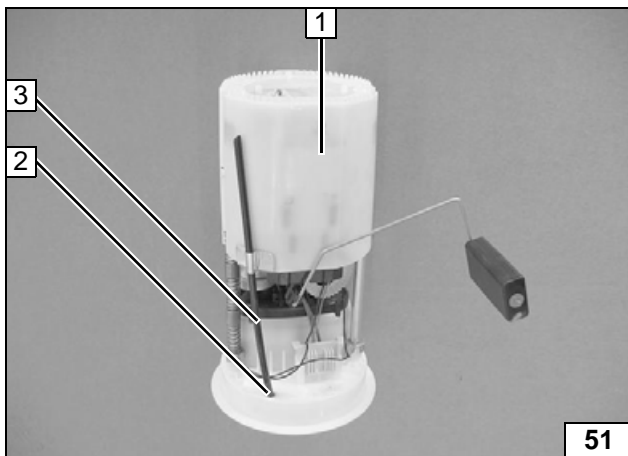
Removing fuel



Shorten standpipe 1 as shown in Figure. Discard section X.



Preparing standpipe

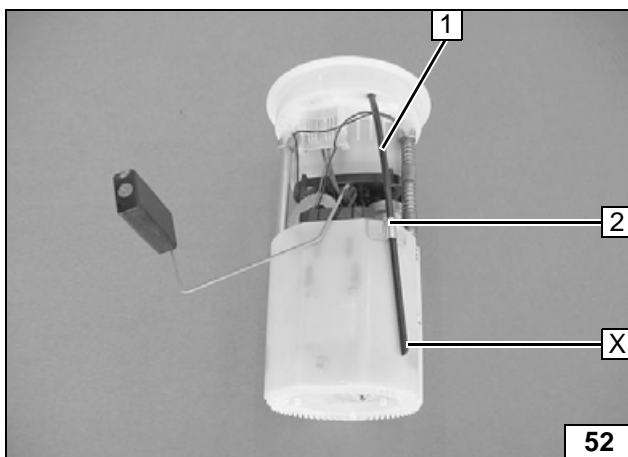


Slide standpipe 3 at least 15 mm into existing opening 2 and fix in place with a suitable contact adhesive.



Installing standpipe

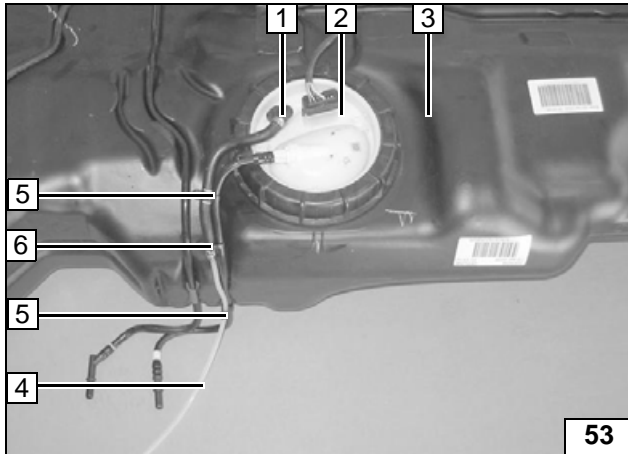
1 Fuel sender



Fix standpipe 1 as shown with retaining clip 2. Angle standpipe 1 at Position X.



Installing standpipe

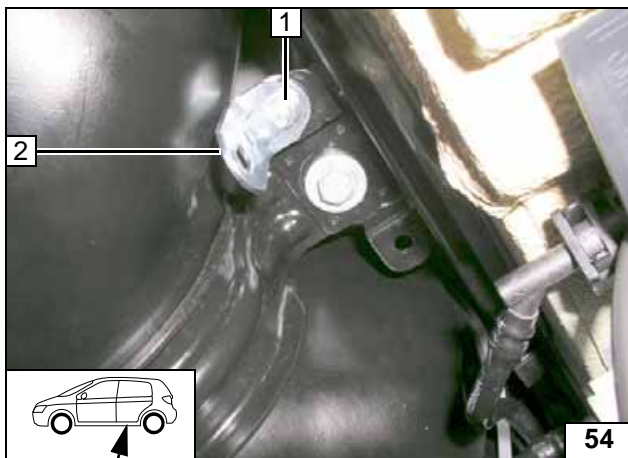


Install fuel-tank sending unit **2** according to manufacturer's instructions in fuel tank **3**. Mount hose coupling **1** on connection piece.

- 4** 500 mm fuel line
- 5** Cable tie [2x]
- 6** 10 mm dia. Caillau clamp

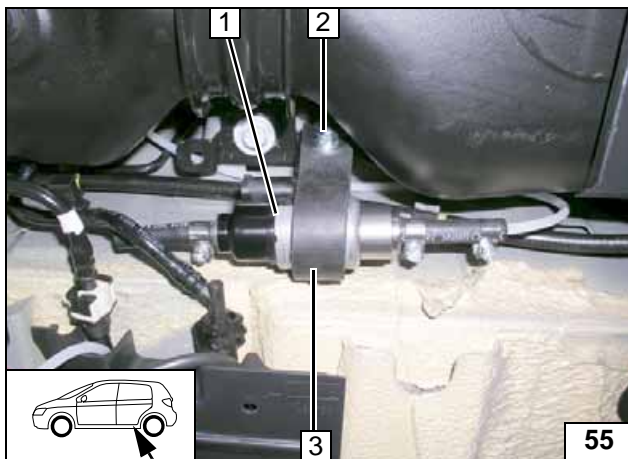


**Installing fuel stand-pipe**



- 1** M6x20 bolt, large diameter washer, flanged nut
- 2** Angle bracket

**Installing metering pump**

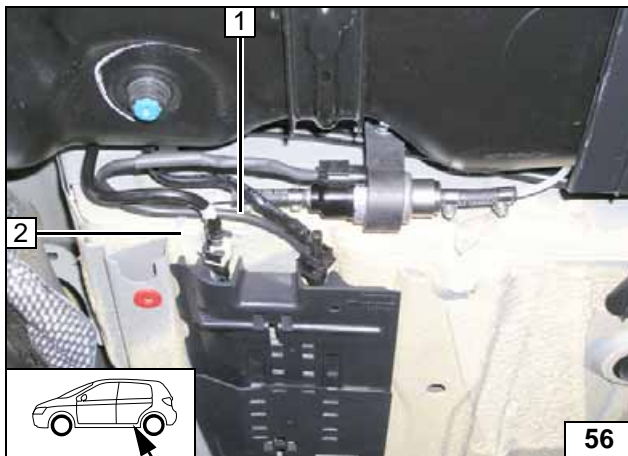


Check the position of the components; adjust if necessary. Check that they have free clearance.

- 1** Metering pump
- 2** M6x20 bolt, washer, flanged nut
- 3** Metering pump bracket



**Installing metering pump**

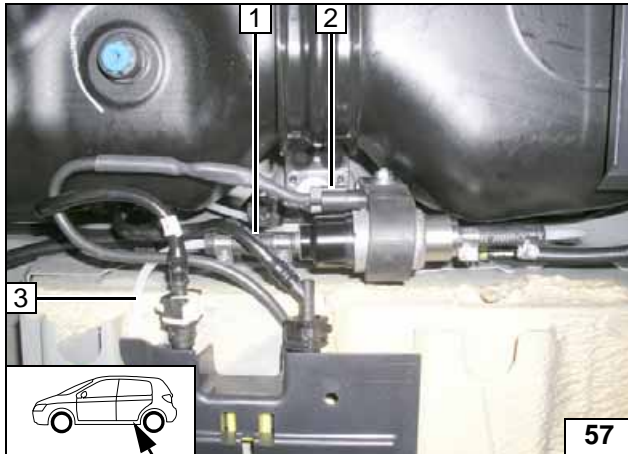
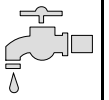


Route fuel line **2** and wiring harness of metering pump **1** along original vehicle fuel line and secure with cable ties.



**Routing lines**



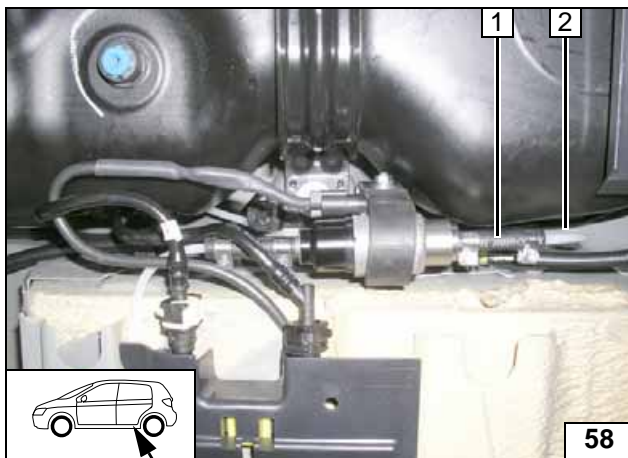


Fuel line from heater **3** on pressure side of metering pump.  
Check the position of the components; adjust if necessary. Check that they have free clearance.  
Remount cover of fuel lines.

- 1** Hose section, 10 mm dia. hose clamp [2x]
- 2** Wiring harness of metering pump, connector mounted



**Connect-  
ing meter-  
ing pump**

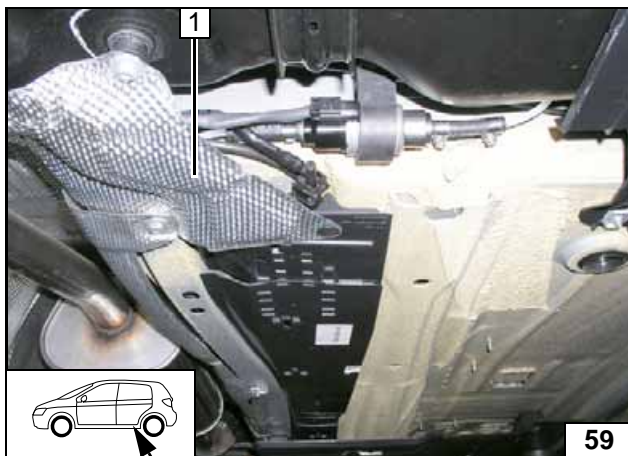


Fuel line from fuel standpipe **2** on intake side of metering pump.  
Check the position of the components; adjust if necessary. Check that they have free clearance.

- 1** Hose section, 10 mm dia. hose clamp [2x]



**Connect-  
ing meter-  
ing pump**



- 1** Cover



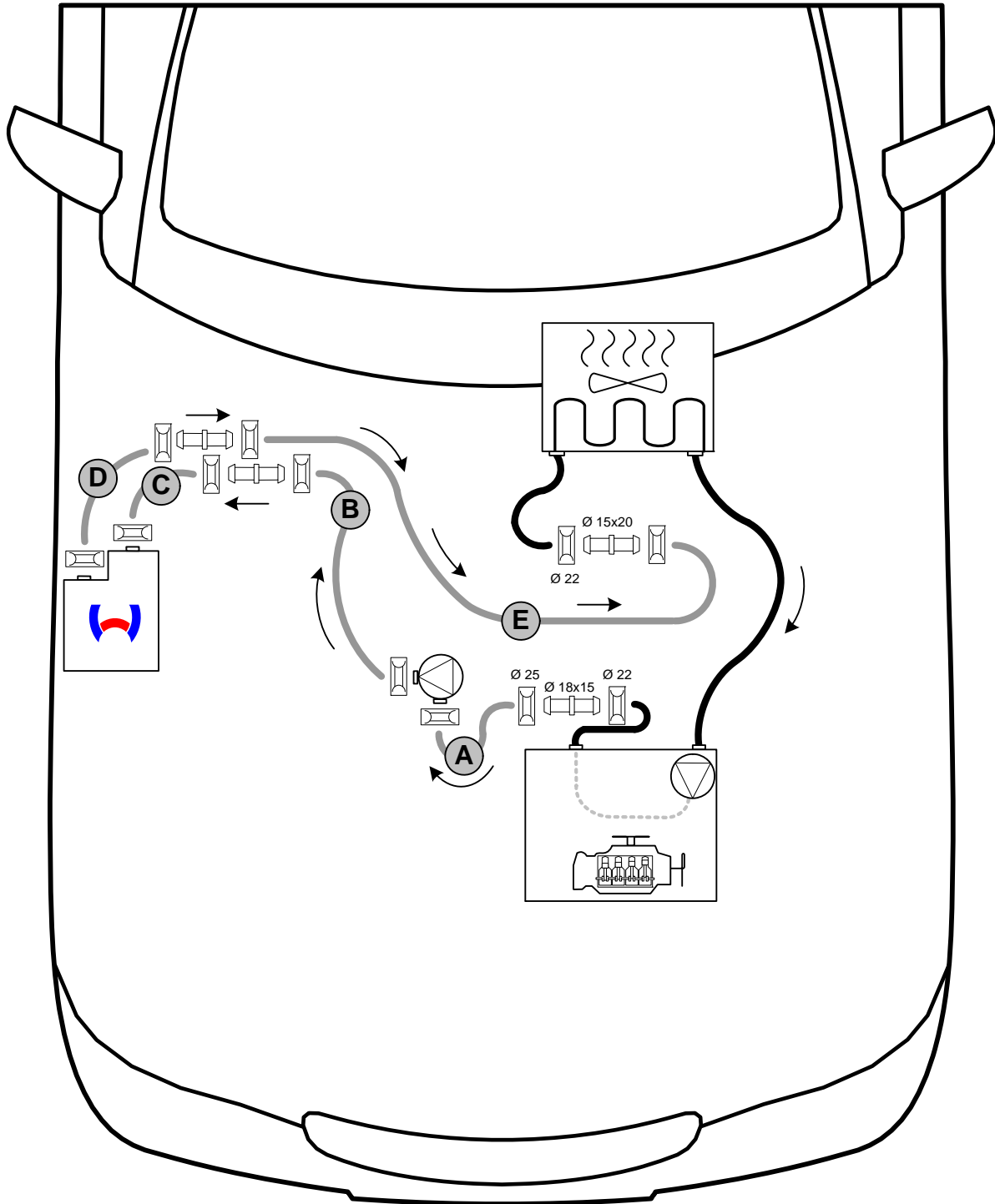
**Installing  
cover**



**Coolant circuit**

**WARNING!**

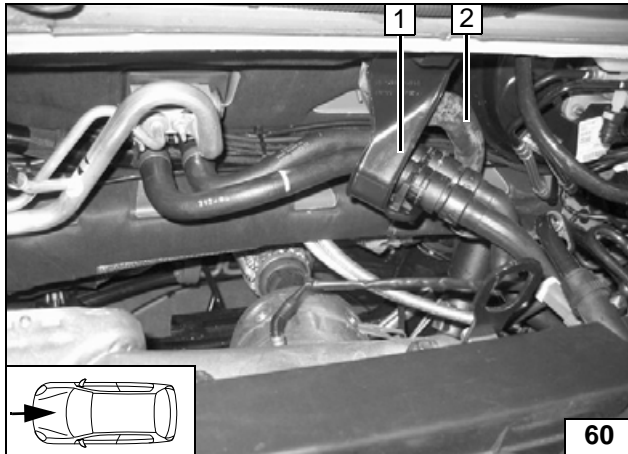
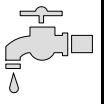
Any coolant running off should be collected using an appropriate container!  
Route coolant hoses kink-free! Unless specified otherwise, always fasten using cable ties. Position hose clamps and spring band clamps so that no other hose can be damaged.  
The connection should be "inline" based on the following diagram:



Hose routing diagram

All clamps without a specific designation = 27 mm dia. spring clips.  
All connecting pipes without a specific designation = 20x20mm dia.

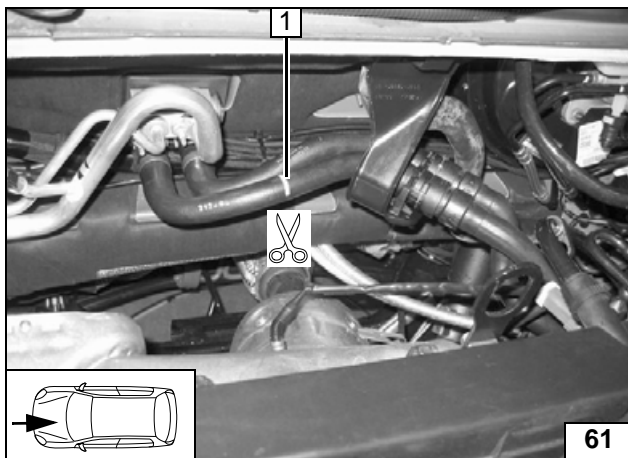




Remove hose bracket **1**; will be reused (on S-MAX and Galaxy) or loosen (on Mondeo)!  
Unclip water drain hose **2**; will be reused.



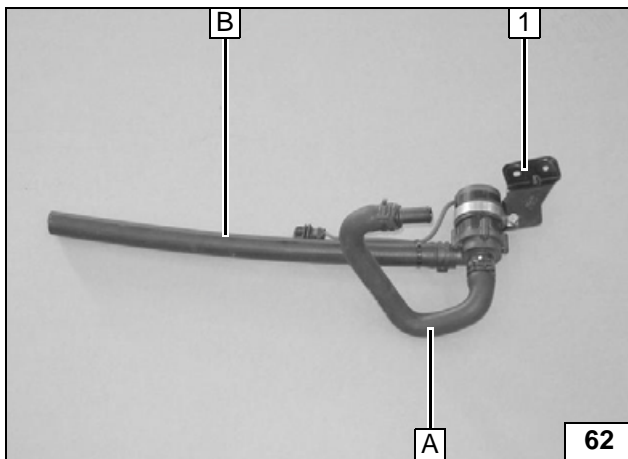
**Preliminary work**



**1** Cutting point

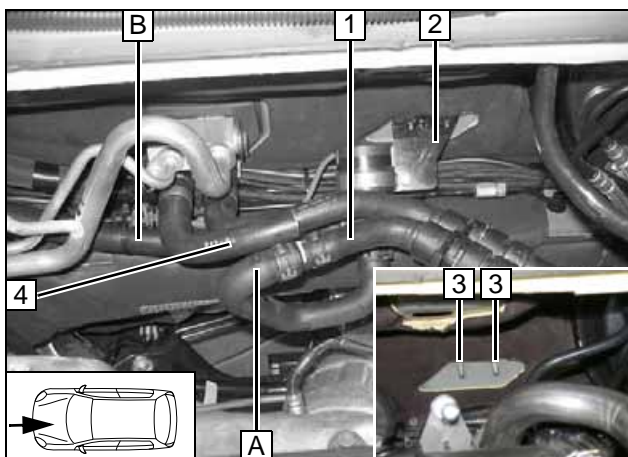


**Cutting point**



Install moulded hose **A** on pre-mounted circulating pump **1** according to diagram.

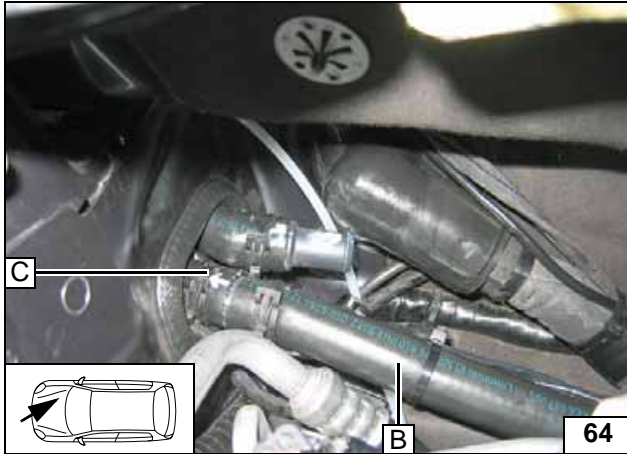
**Premounting circulating pump**



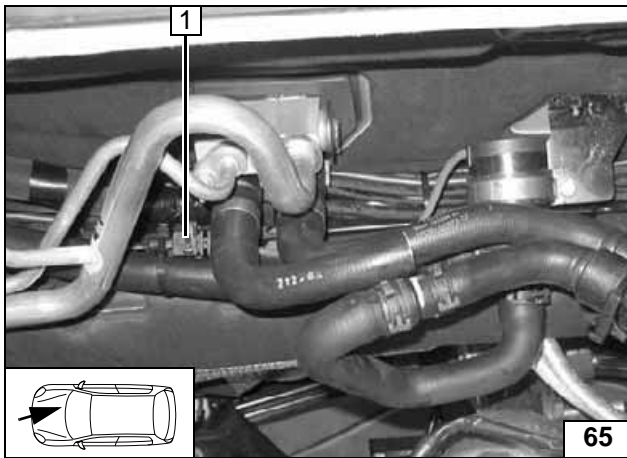
See coolant connection diagram.  
Installation of the circulating pump is carried out on original vehicle stud bolt **3** [2x]!

- 1** Hose section on engine outlet
- 2** Bracket of circulating pump, plastic nuts [2x]
- 4** Hose section on heat exchanger inlet

**Connection to engine outlet**

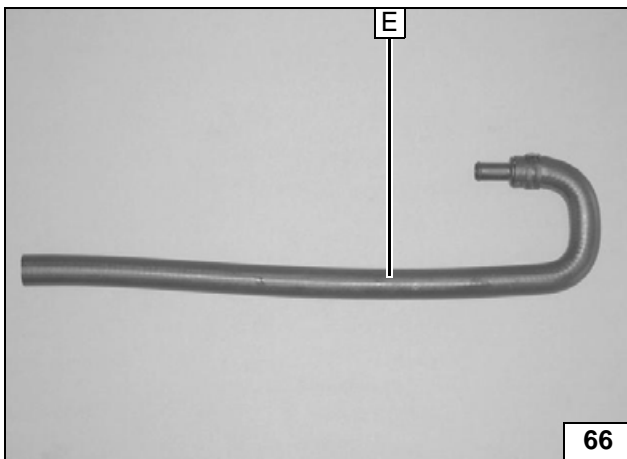


Connec-  
tion of  
heater inlet

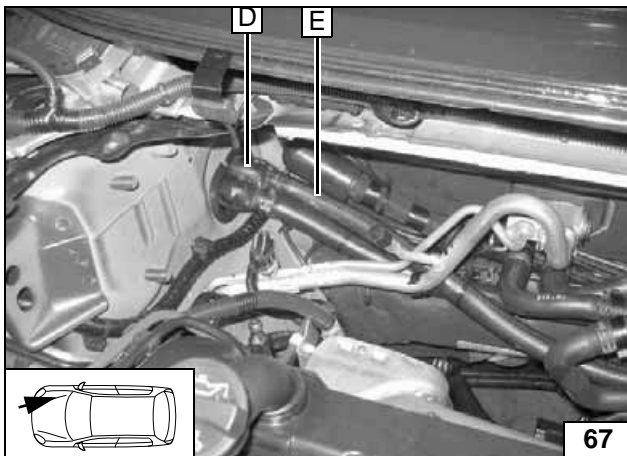


1 Adapter cable of circulating pump, cable of circulating pump

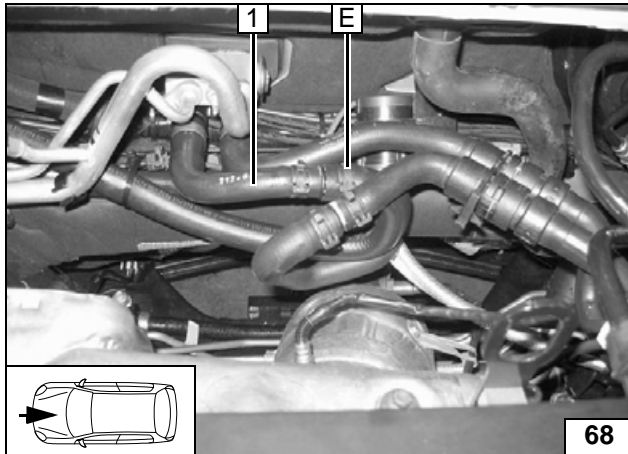
Connect-  
ing adapter  
wiring har-  
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culating  
pump



Moulded  
hose E



Connec-  
tion of  
heater out-  
let

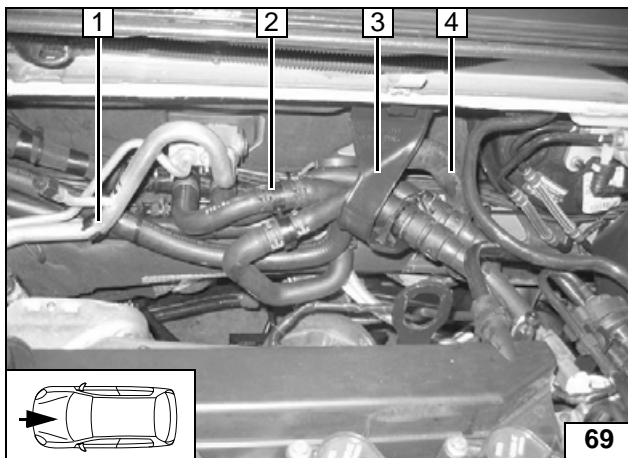


Before connecting, fill the coolant hoses with coolant.

- 1 Hose on heat exchanger inlet



**Connec-  
tion to heat  
exchanger  
inlet**

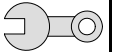


Remount original vehicle hose bracket **3** and water drain hose **4**.

- 1 Hose bracket between A/C line and hose E
- 2 Hose bracket



**Installing  
hose  
bracket**

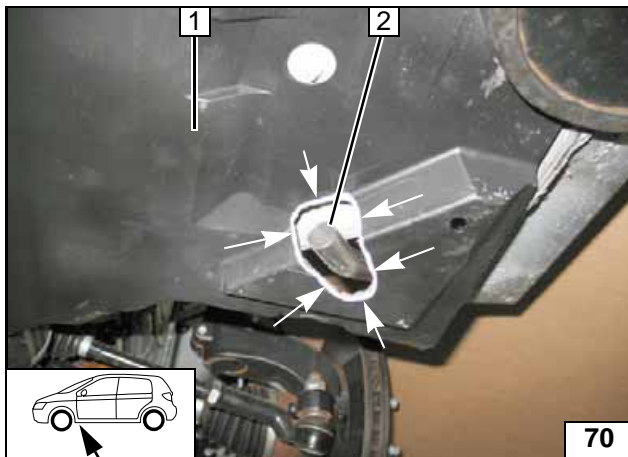


**Final Work**

**WARNING!**

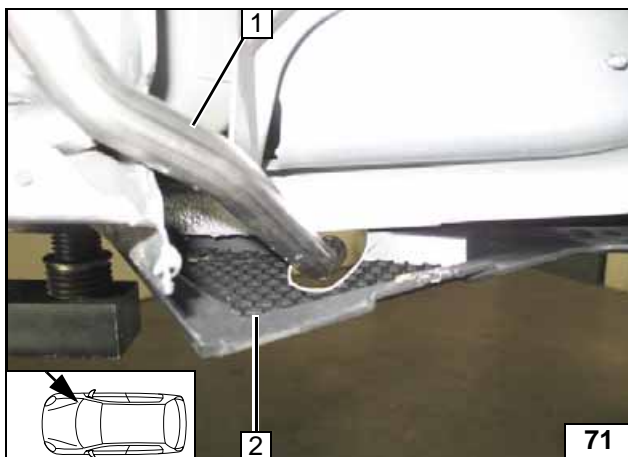
Mount removed parts in reverse order.  
 Check all hoses, clamps and all electrical connections for firm seating.  
 Secure all loose cables using cable ties.  
 Only use manufacturer-approved coolant.  
 Spray heater components with anti-corrosion wax (Tectyl 100K, Order No. 111329).

- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Bleed the fuel system according to the manufacturer's instructions.
- Set the digital timer.
- Make A/C control panel adjustments according to "operating instructions"
- Check the function of the parking heater, see the "operating instructions"
- Place signboard "Switch off parking heater before refuelling" in the area of the filling connecting piece
- Decode the radio according to the manufacturer's instructions



Cut out at marking in lower trim 1 (if installed) in area of exhaust outlet 2.

**Cutting out  
 underride  
 protection**



Ensure sufficient distance to neighbouring components.

- 1 Exhaust outlet
- 2 Lower trim

**Exhaust  
 outlet**



Webasto AG  
 Postfach 80  
 D-82132 Stockdorf / Germany  
 National Hotline: 01805 93 22 78  
 (14 Cent aus dem deutschen Festnetz)  
 Hotfax: 0395 5592 353  
 Hotmail: hotline@webasto.de  
 http://www.webasto.de