

# Water Heater Unit



Feel the drive

**Thermo Top C Auxiliary Heating**

  
00 0002

**Thermo Top P Auxiliary Heating**

  
00 0104

**Thermo Top E Auxiliary Heating**

  
00 0003

## Installation Instructions

### VW Golf Plus

1.6MPI and 2.0FSI

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 warning instructions.**

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

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## Validity

Manufacturer	Model	Type	EG-BE No. / ABE
Volkswagen	Golf Plus	1KP	e1 * 2001 / 116 * 0304 * ...

Engine type	Engine type	Power in kW	Engine capacity in cm <sup>3</sup>
BGU	Gasoline	75	1595
BSE	Gasoline	75	1595
BLY	Gasoline	110	1984
BLX	Gasoline	110	1984
BLR	Gasoline	110	1984
AXW	Gasoline	110	1984

Vehicle and engine types, equipment variants as well as national specifications, which are not listed in these installation instructions, have not been tested. Installation according to these installation instructions may, however, be possible.

The installation location of a time switch and summer / winter switch should be confirmed with the end customer before installation.

## Heater Unit / Installation Kit

Amount	Description	Order no.:
1	Commercial supply of required control	See price list
1	Installation kit VW Golf V / Plus / Eos 1.6MPI and 2.0FSI	9013567A

### Also required

Amount	Description	VW order no.:
1	Windshield washer container for vehicles with auxiliary heating	5M0 955 453B (*)

\* Check the validity of the parts number for the corresponding vehicle frame number in the spare parts catalog.

### Also required for Climatronic

Amount	Description	Order no.:
1	IPCU kit for Climatronic	9,013,645A

### Recommended heater unit for the relevant vehicle class:

Vehicle	Heater unit
Compact car	Thermo Top E
Mid-class, station wagon	Thermo Top C
Luxury, van, off-roader	Thermo Top P

Select the heater unit based on the size of the vehicle passenger compartment and the customer's comfort requirements.

## Foreword

These installation instructions apply to vehicles VW Golf Plus with 1.6MPI and 2.0FSI engines.  
 – Re. validity, see page 2 – 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/P/E* are to be observed in any event.

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 cable harnesses to original vehicle lines and cable harnesses using cable clips.

Sharp edges should be fitted with edge protectors (split open plastic hose).

Spray unfinished body areas, such as for example bore holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329)!

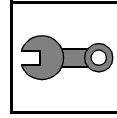
## Special Tools

- Torque spanner for 2.0 - 10 Nm
- Vice-grip wrench
- Riveting nut tool

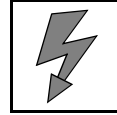
**Explanatory notes on the document**

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.

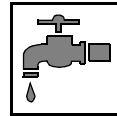
**Mechanical work**



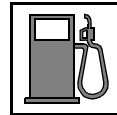
**Electrical connection**



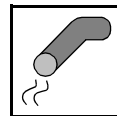
**Water connection**



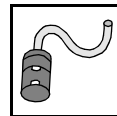
**Fuel connection**



**Exhaust system**



**Combustion air**



Special features are highlighted using the following symbols:



Specific risk of injury or fatal accidents.



Specific risk of damage to components.



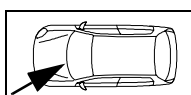
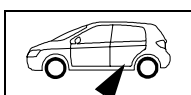
Specific risk of fire or explosion.



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



Reference to a special technical feature.

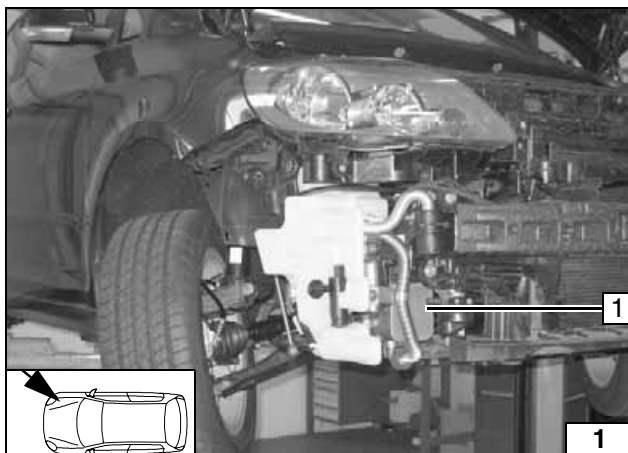


The arrow in the vehicle icon indicates the position on the vehicle and the viewing angle.

**Preliminary Work**

**WARNING!**

- Open the tank cap, ventilate the tank.
- Close the tank cap again.
- Pressure in 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.
- Disconnect the battery.
- Only 2.0 FSI: Completely remove the air filter with intake hose.
- Remove the battery.
- Remove the battery holder.
- Remove the engine cover.
- Remove the front right wheel.
- Remove the front section of the front, right wheel-house panel.
- Remove the underride protection
- Remove the bumper.
- Remove right underbody cover.
- Remove the rear right seat.
- Open right tank mounting service lid.
- Remove the footwell panel on the driver's side
- Remove the lower dashboard panel on the driver's side
- Only for vehicles with Climatronic: Remove the footwell panel on the passenger's side



**Heater Unit Installation Location**

- 1 Heater unit

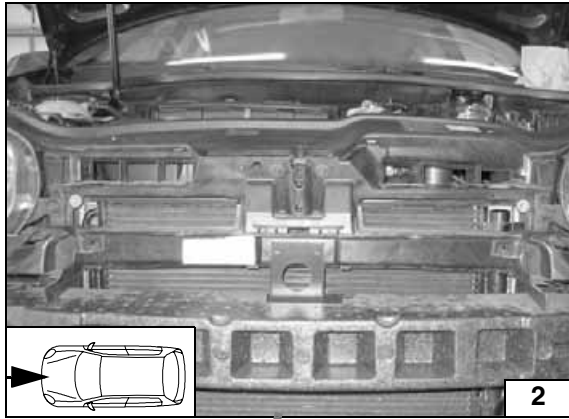
**Installation location**



**Electrical Connection**

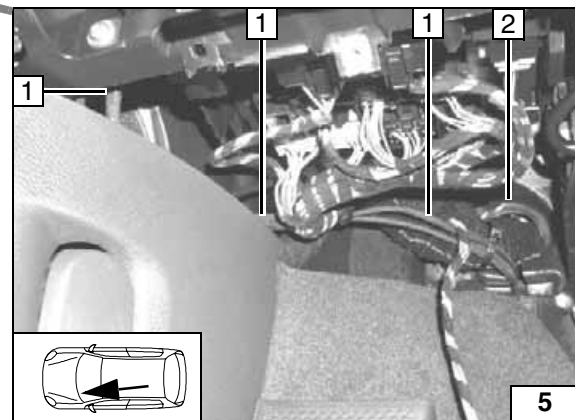
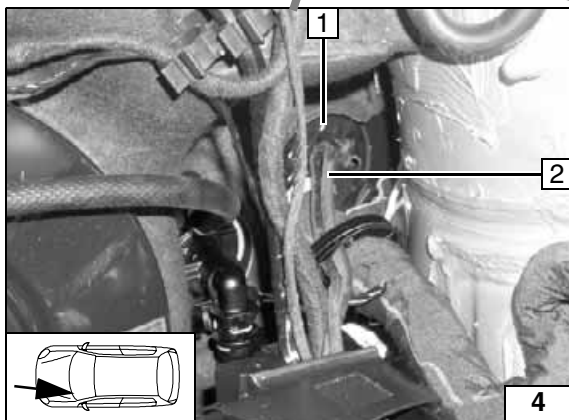
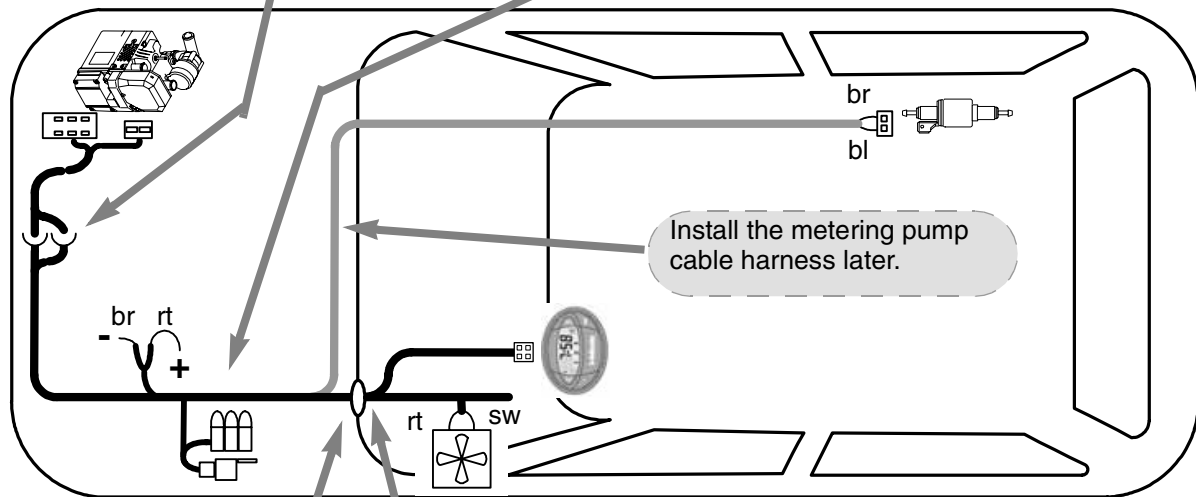
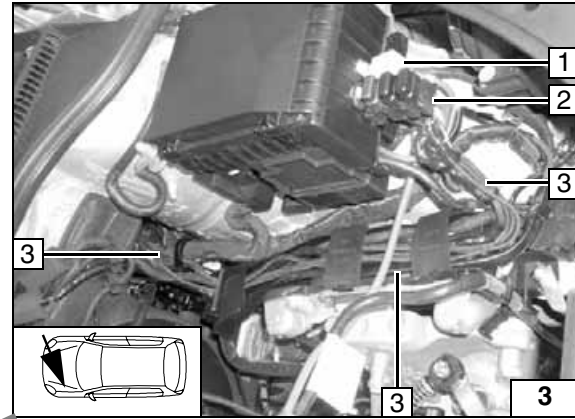
**Heater unit cable harness**

Run the heater unit cable harness along the cable to the cover lock, then along the original vehicle wires to the right headlight.



**Fuse holder**

- 1 Relay K3
- 2 Fuse holder
- 3 Run the cable looms for the control element, blower control and metering pump in the cable conduit to the engine compartment rear bulk.



**Cable harness feed-through**

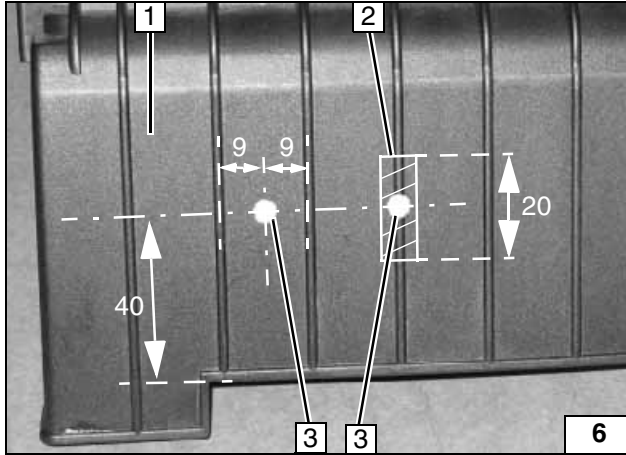
- 1 Original vehicle cable harness feed-through
- 2 Blower control and control unit cable harness (blower connection, pages 8-12; control element connection, page 13).

**Cable harness feed-through**

- 1 Blower control and control cable harness



**Cable harness routing diagram, all models**



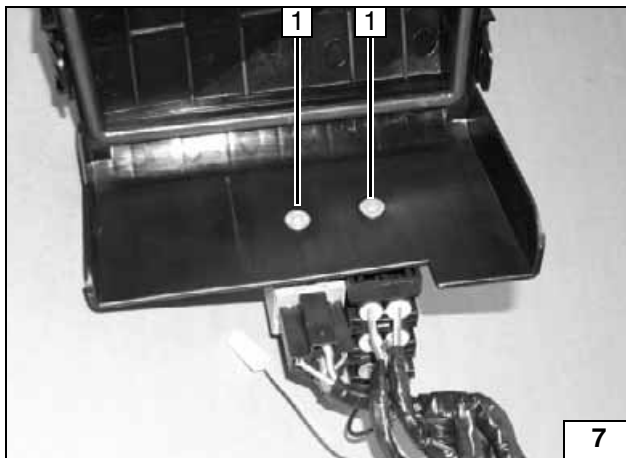
## Fuse holder and K3 relay

Countersink hole **3** from the rear for M5 countersunk screws!

- 1** Cover for fuse/relay holder in the engine compartment
- 2** Cut away the ridge in the shaded area.
- 3** Ø 7 mm bore hole [2x]

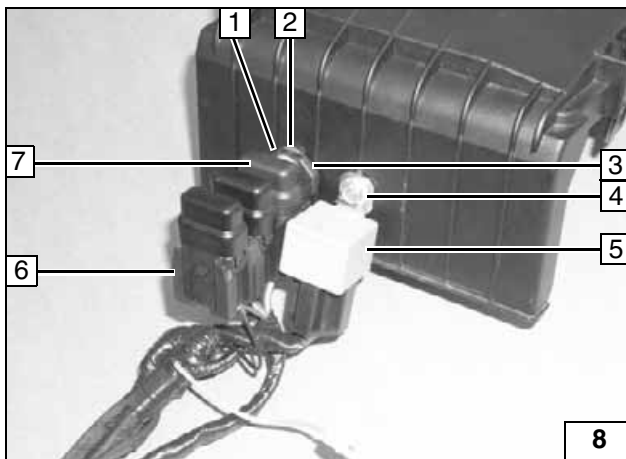


**Boreholes for fuse holder and K3 relay**



- 1** Countersunk screw M5x12 [2x]

**Assembling the fuse holder and K3 relay**

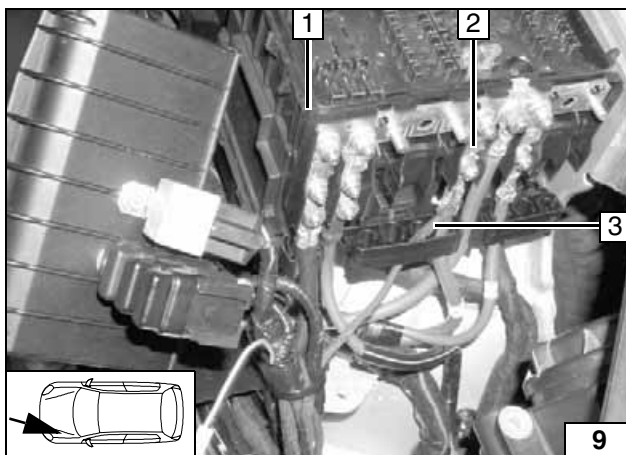


On vehicles with Climatronic, replace fuse F3 25A 7 with enclosed fuse 3A.

- 2** Body washer (between cover and retaining plate)
- 3** Retaining plate
- 1** Flanged nut M5
- 6** Fuse holder
- 7** Fuse F3
- 5** Relay K3
- 4** Flanged nut M5



**Assembling the fuse holder and K3 relay**

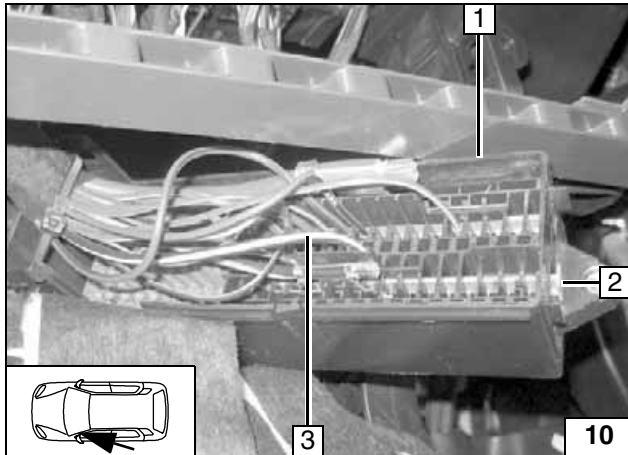


Route and connect the ground cable br to the vehicle grounding point below headlight!

- 1** Fuse/Relay holder
- 3** Positive lead rt
- 2** Original vehicle main fuse



**Positive and ground wire connection**



## Blower control without Climatronic

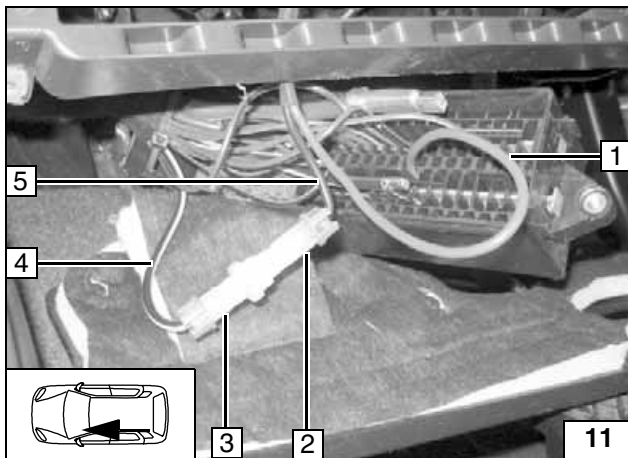
Fuse slot depends on the vehicle equipment SC33 or SC35; cable colors are black (sw) or black/yellow (sw/ge).

Loosen the original vehicle fuse support **1** (lower left dashboard) and unlock the terminal protection **2**.

Uncrimp the black (sw) or black/yellow (sw/ge) 4mm<sup>2</sup> wire **3** at the fuse output SC33 or SC35.



**Uncrimp wire**



Reconnect according to the circuit diagram.

**4** Black (sw) or black/yellow (sw/ge) wire **10/3** with original standard-power timer.

**3** AMP housing

**5** Black (sw) wire from K3/30 with crimped flat connector.

**2** AMP housing

**1** Red wire from K3/87a with crimped standard-power timer engaged in fuse output SC33 or SC35

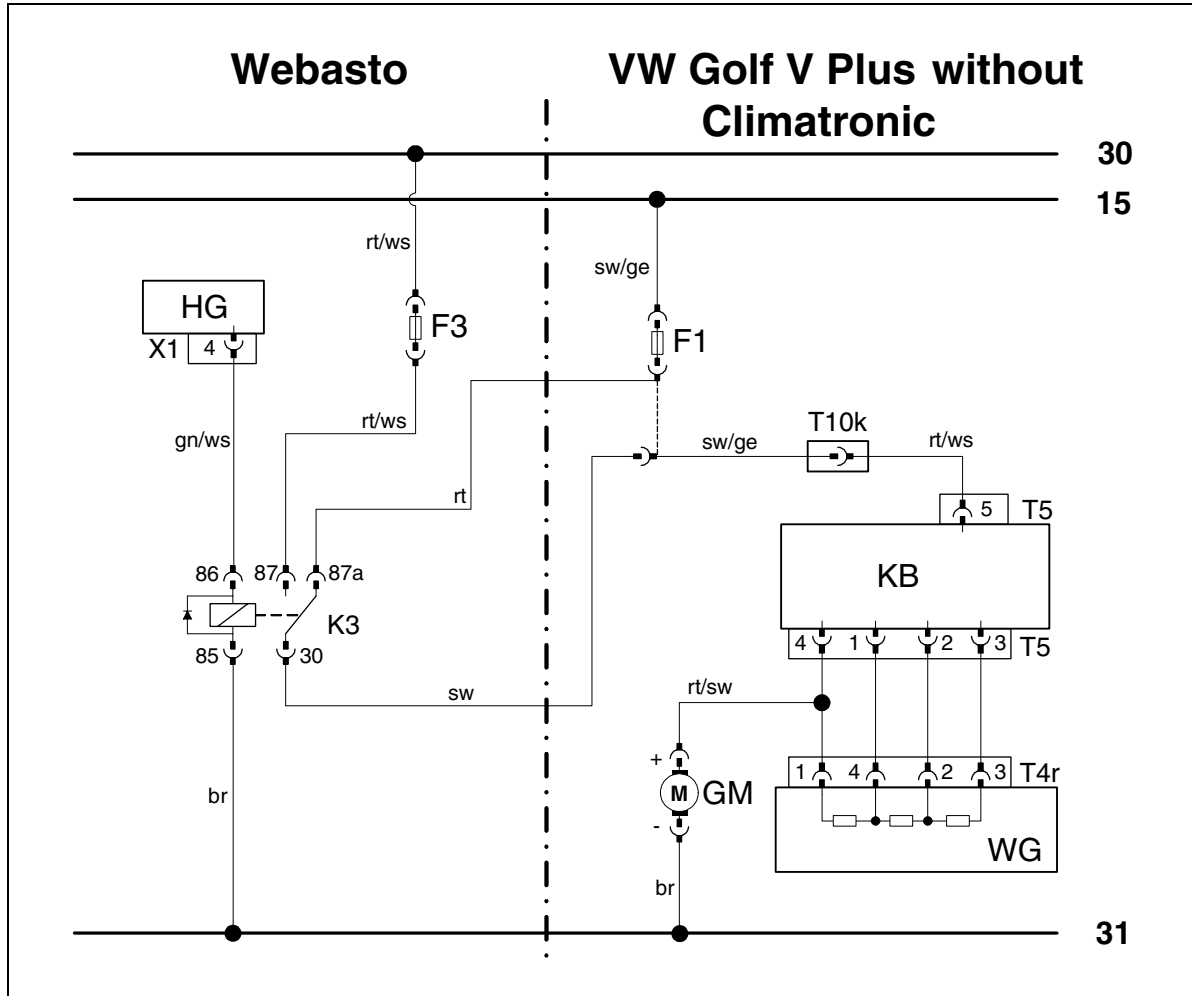


**Connect cables**

Lock the terminal protection again.



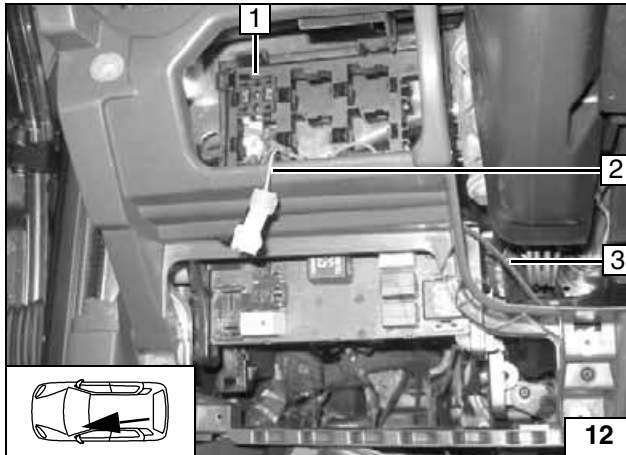




Circuit diagram without Climatronic

Webasto components		Vehicle components		Colors and symbols	
HG	Heater unit TT-C/E	F1	Fuse SC33, SC35 or SC40 with 40A	rt	red
X1	6-pin connector	KB	Air conditioning controller J301 or heater switch E16.	ws	white
F3	Fuse, 25A	WG	Resistor group N24	sw	black
K3	Blower relay	GM	Blower motor V2	br	brown
		F1	Fuse SC40 40A	gn	green
		T...	plug-in connections	ge	yellow

Legend



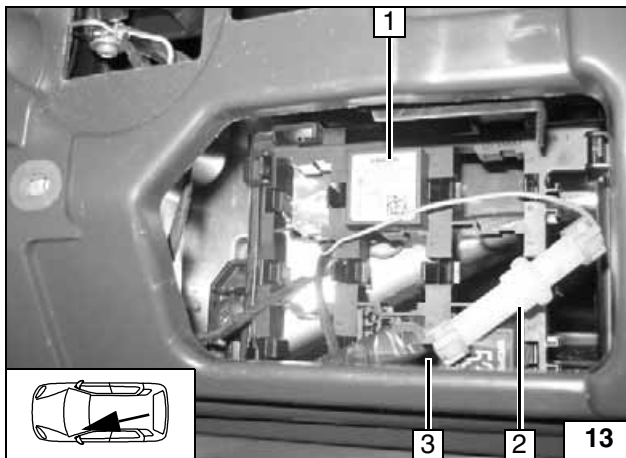
## Blower control with Climatronic

Reconnect according to the circuit diagram. Location of the free plug-in positions depending on the vehicle equipment.

- 1 IPCU socket
- 2 Green/white (gn/ws) wire to IPCU/86 with AMP connector
- 3 Red (rt) and black/white (sw/ws) wires from IPCU



**Assembling the Climatronic cable harness**

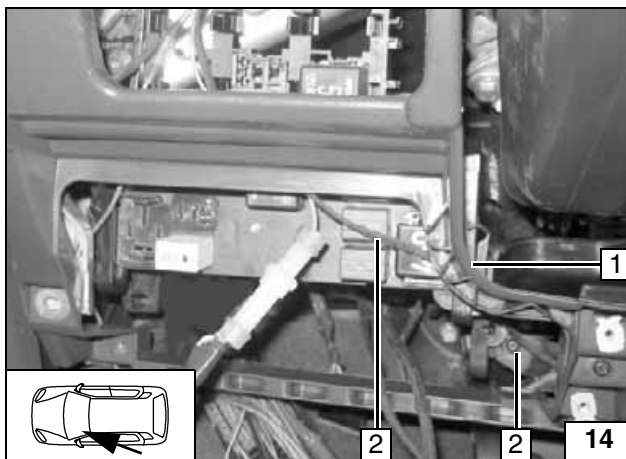


Attach the brown (bn) wire from IPCU/85 to the original vehicle ground point. Insulate and tie back the red (rt) wire from K3/87a. Connect the black (sw) wire from K3/30 3 with the green/white (gn/ws) wire (AMP connector) 2.

- 1 IPCU



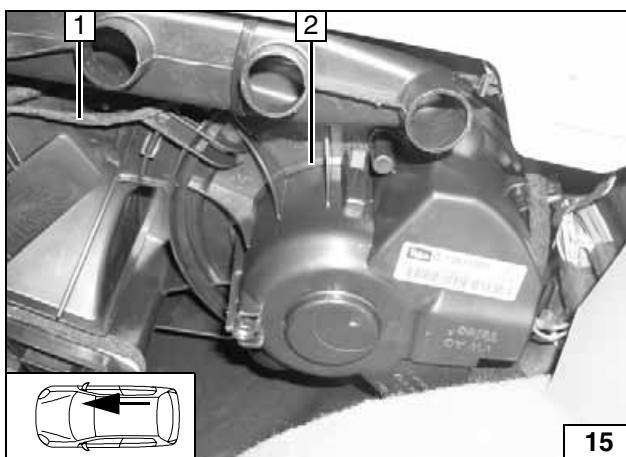
**Connect cables**



Run the IPCU cable harness 2 on the crossarm 1 to the center console.



**Run the cable harness from IPCU**

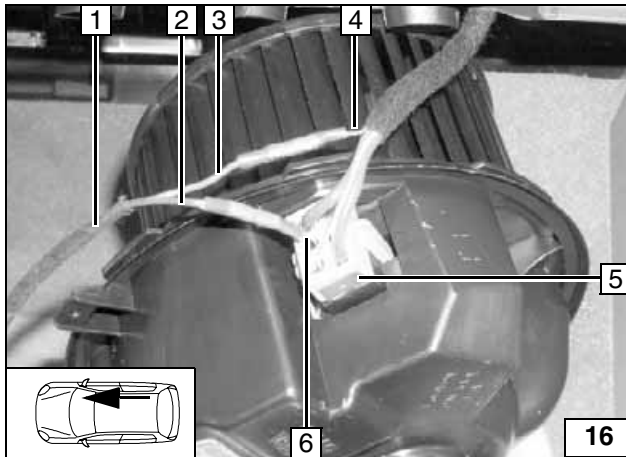


Run the cable harness from IPCU along the original vehicle lines to the blower unit.

- 1 Cable harness with cables rt from IPCU/E and sw/ws from IPCU/A
- 2 Blower unit



**Running the cable harness from IPCU**



The location of the T6t connector depends on the vehicle. If necessary, follow the manufacturer's instructions to loosen the blower unit.

Reconnect according to the circuit diagram.

- 1 Cable harness from IPCU
- 2 Cable sw/ws from IPCU/A
- 3 Cable rt from IPCU/E
- 4 Black/white (sw/ws) wire from Climatronic-Sg
- 5 T6t connector
- 6 Cable sw/ws to socket T6t/2

**Connect cables**

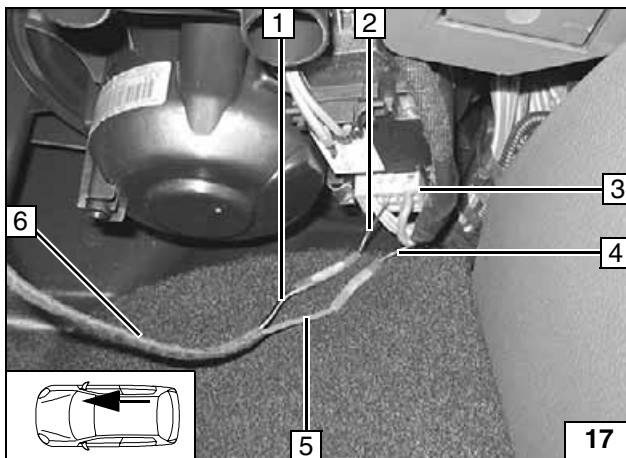
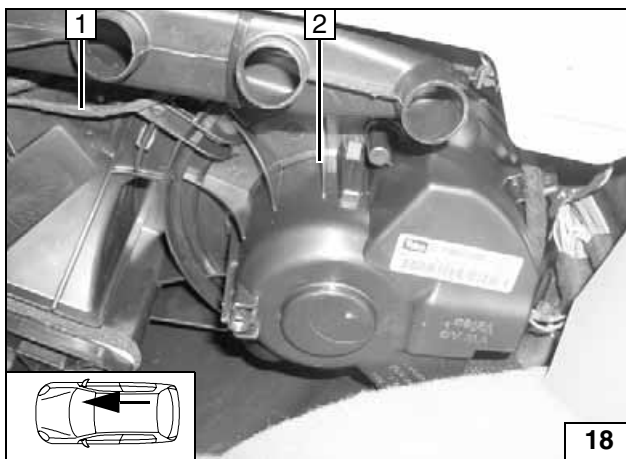


Image shows variant that does not require loosening the blower unit.

- 1 Cable sw/ws from IPCU/A
- 2 Cable sw/ws to socket T6t/2
- 3 T6t connector
- 4 Black/white (sw/ws) wire from Climatronic-Sg
- 5 Cable rt from IPCU/E
- 6 Cable harness from IPCU

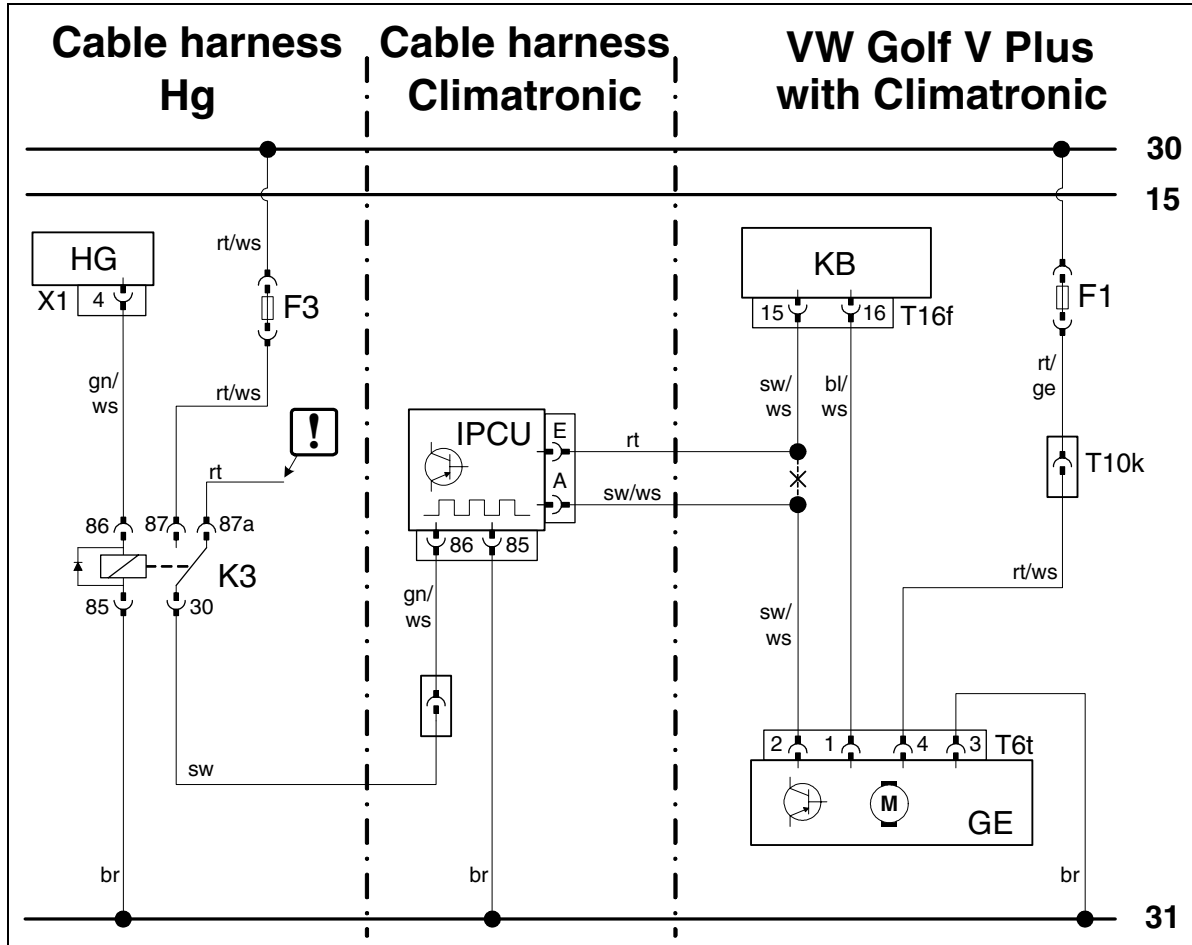
**Connect cables**



If the blower unit was removed, replace it. Fasten the cable harness to the original vehicle lines with cable clips.

- 1 Cable harness from IPCU
- 2 Blower unit

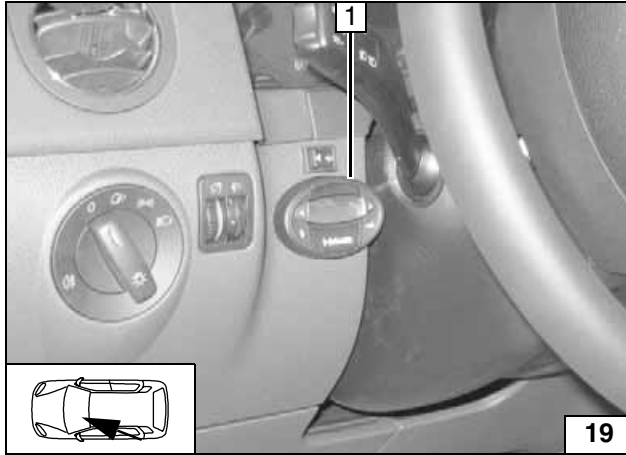
**Installing the blower unit**



Schematic with Climatronic

Webasto components		Vehicle components		Colors and symbols	
HG	Heater unit TT-C/E	F1	Fuse SC22 or SC56 with 40A	rt	red
X1	6-pin Hg connector	KB	Climatronic controller J255	ws	white
K3	Blower relay	T...	plug-in connections	sw	black
F3	Fuse (25A replaced by 3A)	GE	Blower controller J126 and blower motor V2	br	brown
IPCU	Pulse width modulator			gn	green
<b>IPCU settings</b>				ge	yellow
Voltage: 8 V				bl	blue
Frequency: 400 Hz				!	Insulate and tie back wire ends
Duty cycle: 30%				X	Splitting point
Function: High-side					

Legend



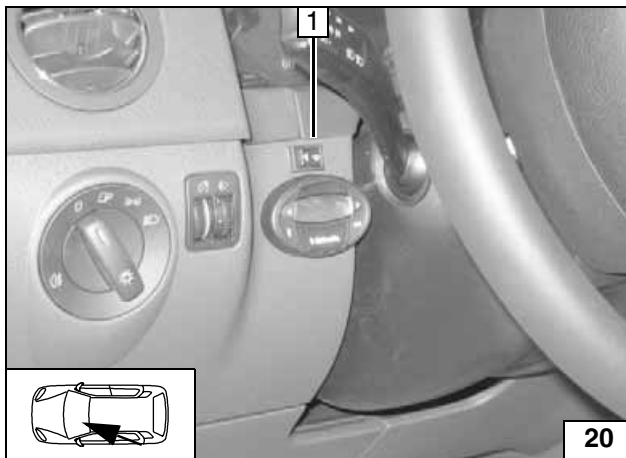
**Time switch option**

Do not push on the display

- 1 Time switch, drilling template



**Time switch**

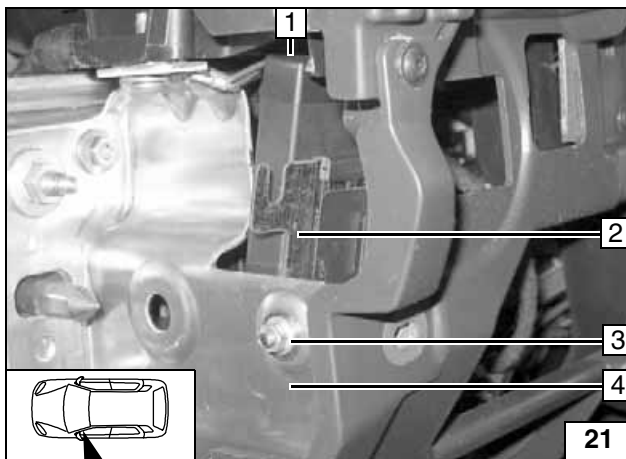


**Summer / winter switch option**

- 1 Summer/winter switch



**Summer/  
winter switch**



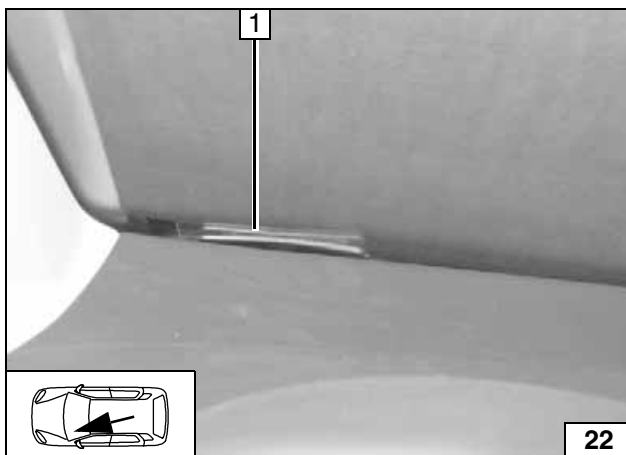
**Remote start option**

Bend the lower strap 90° from the bracket as shown in the figure and drill the hole to Ø 6.5 mm.

- 2 Bracket
- 1 Receiver
- 3 M& bolt, washer (between the bracket and dashboard mount), body washer (from outside) flanged nut.
- 4 Dashboard mount; available bore hole



**Option  
Remote start**

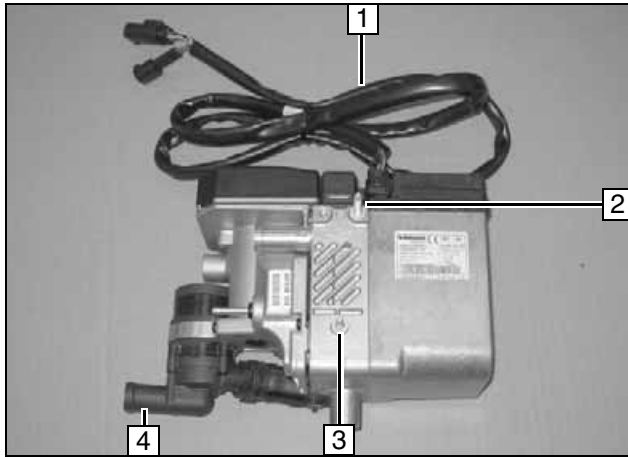
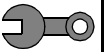


- 1 Antenna on windscreen, bottom left

**Attach the antenna and connect the cables**

Make connections according to the general installation instructions and fasten the wires with cable clips.





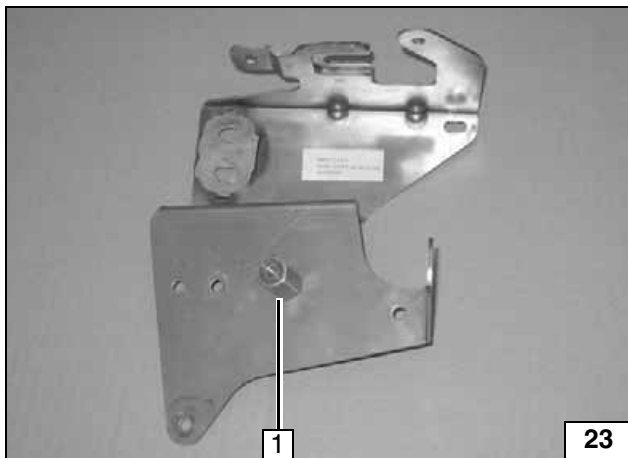
**Pre-assemble the Heater Unit**

Ejot stay bolts, tightening torque 10 Nm.

- 1 Adapter cable harness fitted
- 2 Ejot stay bolts, long
- 3 Ejot stay bolts, short
- 4 Circulation pump cover replaced with straight entry cover.

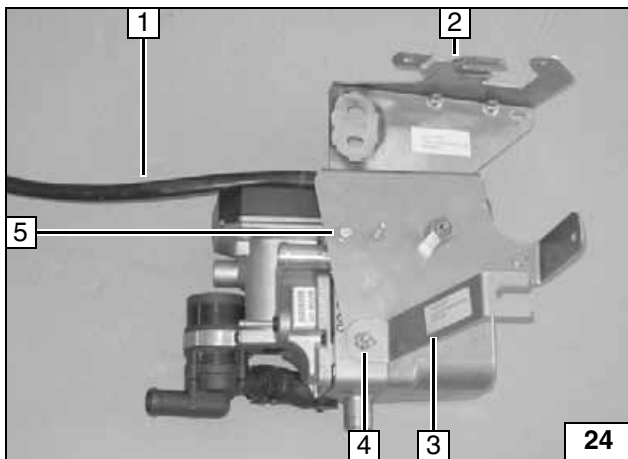


**Pre-assembling the heater unit**



- 1 M6x30 spacer nut, M6x12 bolt, spring washer

**Pre-assembling the bracket**

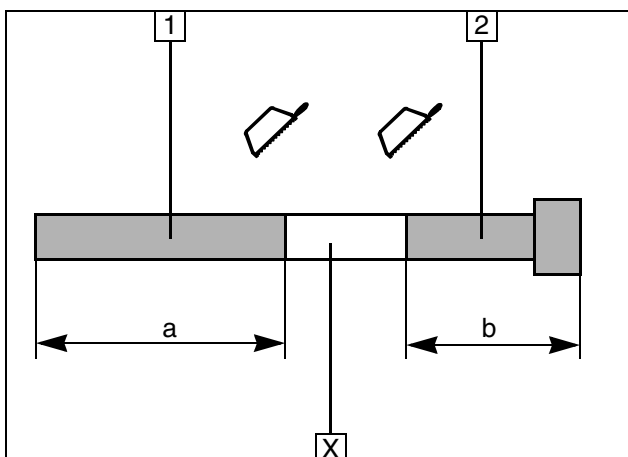


Ejot screw bolt tightening torque 10 Nm!  
At position (5), insert a washer between the heater unit and the bracket.  
Only loosely pre-assemble the flanged nut (4).

- 1 Adapter cable harness
- 2 Bracket
- 5 Washer, ejot screw bolt
- 3 Strut
- 4 Flanged nut



**Pre-assembling the heater unit**



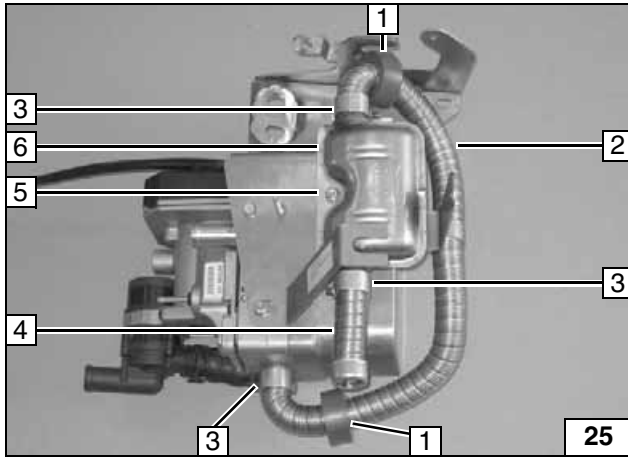
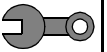
**Pre-assemble exhaust system**

- 1 Exhaust pipe  
a = 520 mm
- 2 Exhaust end section  
b = 90 mm

Dispose of section X



**Preparing the exhaust pipe**

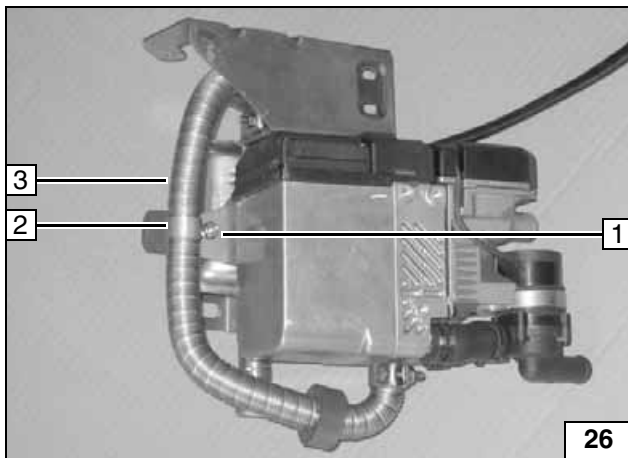


Shape the exhaust pipe according to pictures 25 and 26 and slide on the red rubber section 1.



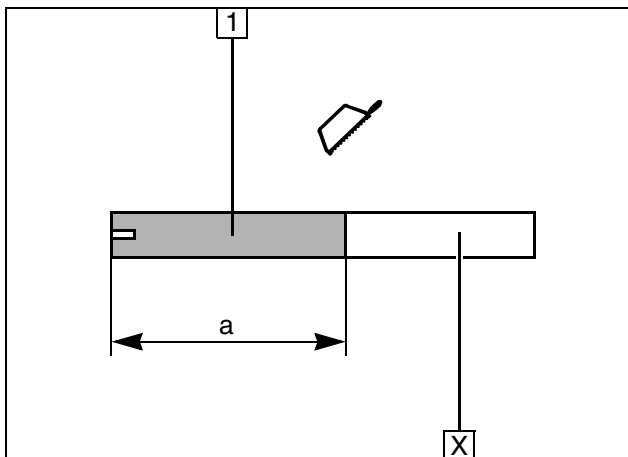
- 6 Silencer
- 5 M6x12 bolt, spring washer on pre-assembled spacer nut
- 2 Exhaust pipe
- 1 Red rubber profile, without groove [2x]
- 3 Hose clamps [3x]
- 4 Exhaust end section

Pre-assembly exhaust system



- 3 Exhaust pipe
- 2 Tube clamp
- 1 Bolt M6x20, flanged nut

Pre-assembly exhaust system

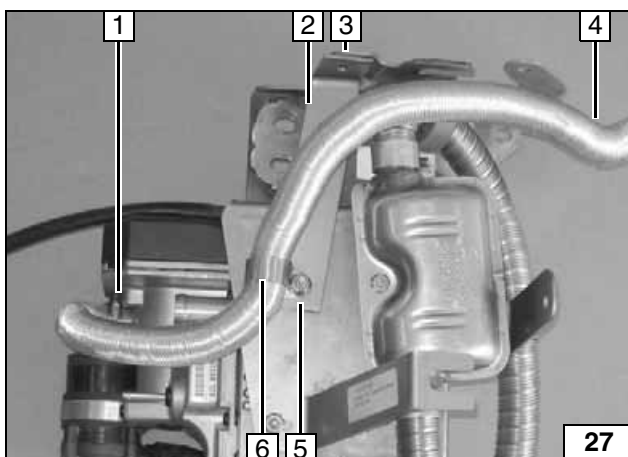


**Pre-assembling the Combustion Air**

- 1 Combustion air pipe  
a = 650 mm

Dispose of section X

Cutting the combustion air pipe to length

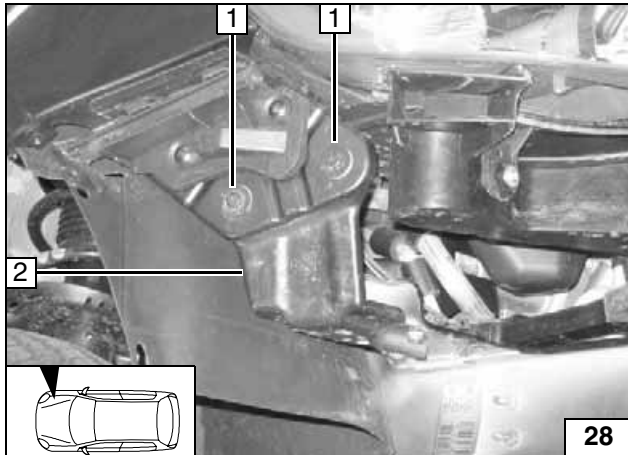
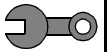


Slide the slotted side on the heater unit. Shape the combustion air line according to the illustration. Align the strut 2 so that the hole images correspond to position 3.



- 1 Hose clamp
- 4 Combustion air pipe
- 2 Strut
- 6 Tube clamp
- 5 Flanged nut

Pre-assembly the fuel pipe and strut



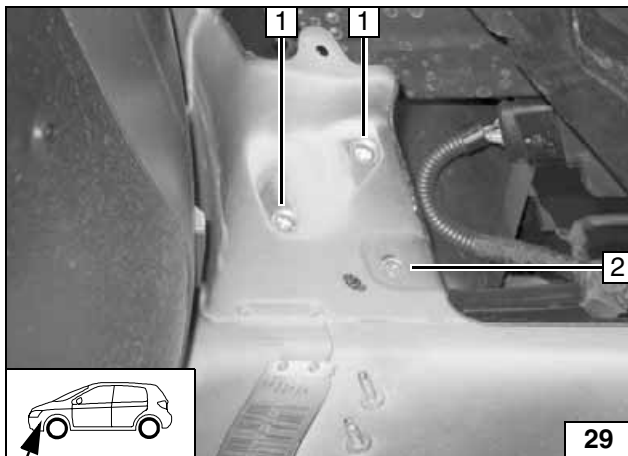
## Preparing the installation location

Remove the windshield washer container, the bolts and nuts will be used again.

Remove the crossarm **2**, the bolts **1** will be used again.



**Preparing the Installation Location**



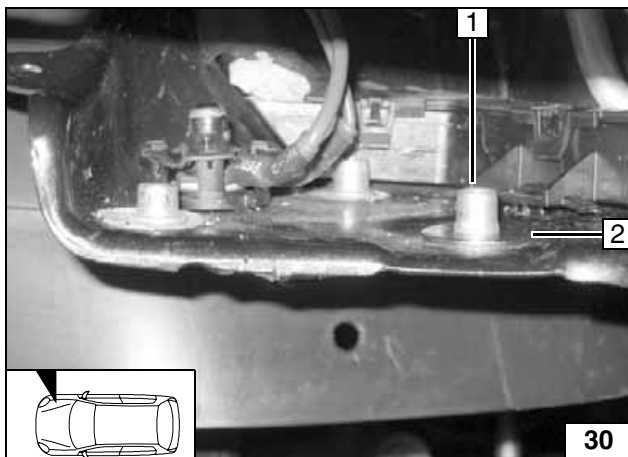
Only loosely pre-assemble the rivet nut **2**, do not rivet it!

**1** Drill the Ø 9mm bore hole; rivet in the M6 rivet nuts [2x]

**2** Rivet nut M6 in the middle of the oblong hole



**Assembling the rivet nuts**



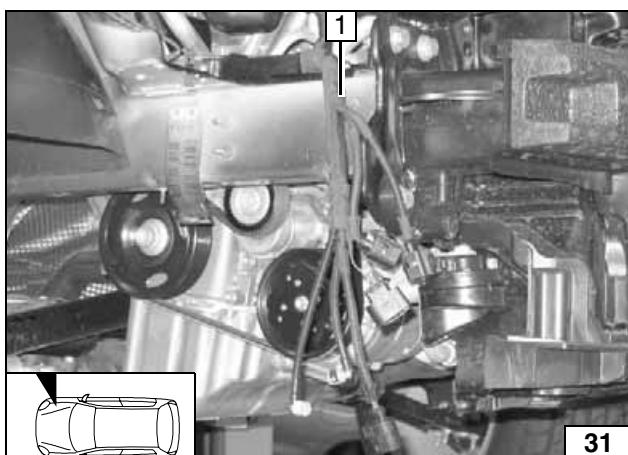
Drill open an enclosed body washer from the inside – from Ø 7mm to 9mm.

**2** Body washer, drilled open

**1** Rivet nut **29/2**, riveted



**Assembling the rivet nuts**

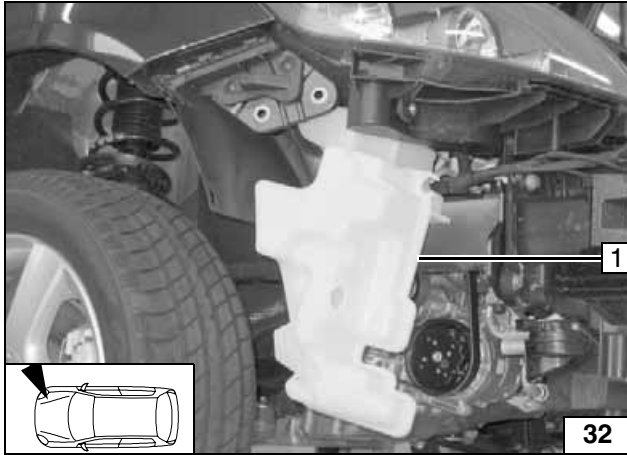
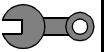


Separate the cable looms **1** for washer container, horn, and fog lights and wrap each separately with insulation tape!



**Installing the Cable Harnesses**





**Installing the Heater Unit**

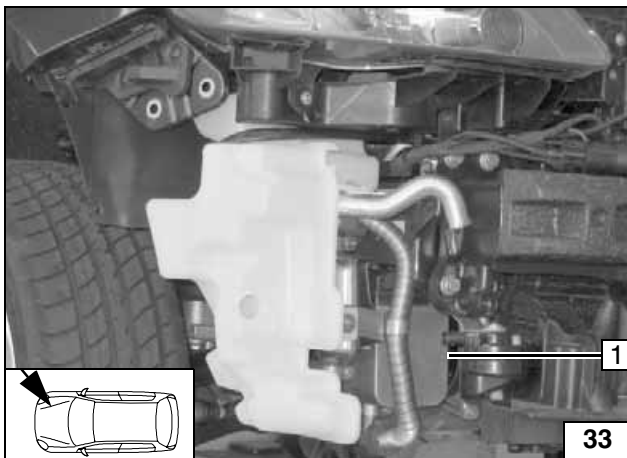
Check the validity of the parts number for the corresponding vehicle frame number in the spare parts catalog.

Position the washer container 5M0 955 453 B (for vehicles with auxiliary heating) according to the figure.

1 Washer container

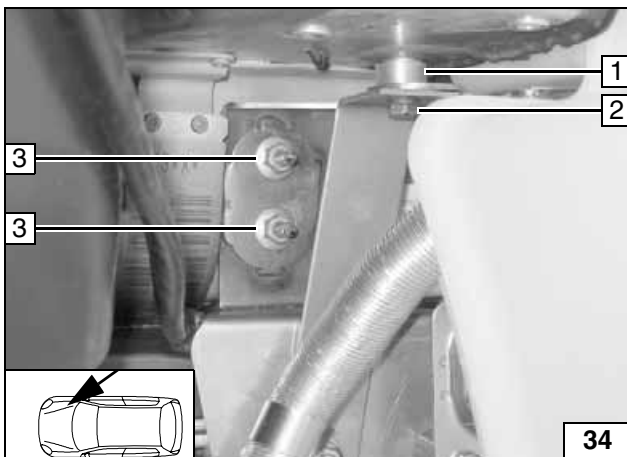


**Assembling the washer container**



1 Pre-assembled heater unit

**Assembling the Heater Unit**

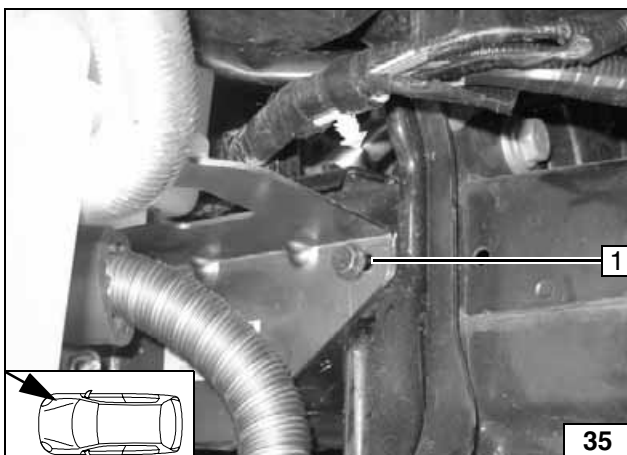


Only loosely pre-assemble the bolts 2 and nuts 3.

- 3 Original vehicle nuts [2x]
- 1 5mm spacer disc
- 2 M6x30 bolt, spring washer on pre-assembled rivet nut



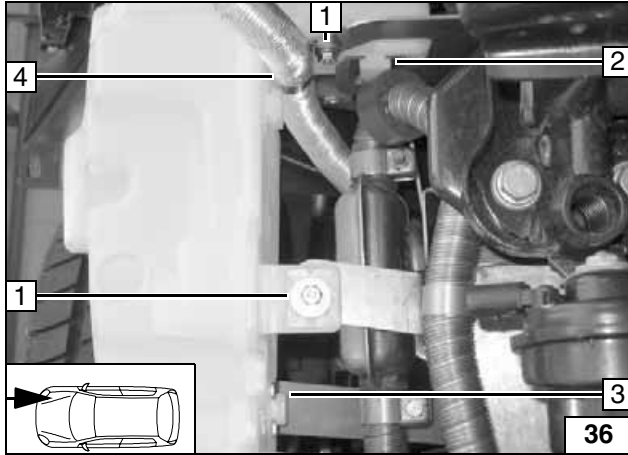
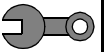
**Assembling the heater unit**



Only loosely assemble the original vehicle bolt 1.



**Assembling the heater unit**



Only loosely assemble the bolts at position 1.

- 2 Wash container inserted in holder
- 3 Wash container inserted in strut
- 4 Combustion air pipe, tube clamp
- 1 M6x20 bolt, body washer, flanged nut [2x each]

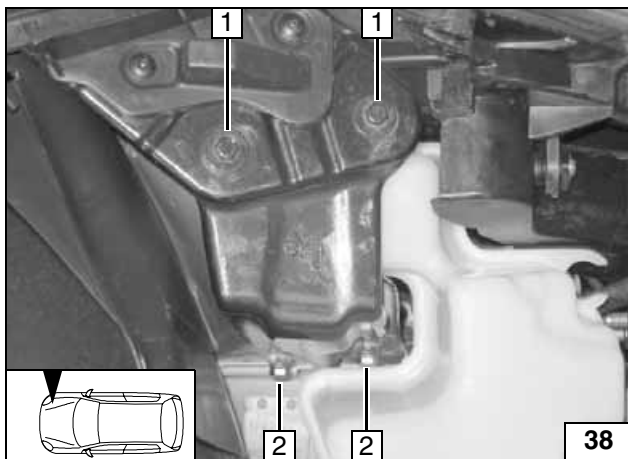


**Assembling the washer container**



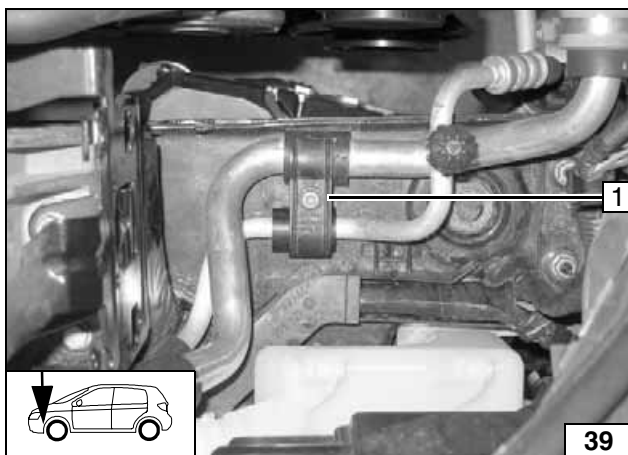
- 1 Holes drilled open to Ø 7mm [2x]

**Preparing the crossarm**



- 1 Original vehicle bolts [2x]
- 2 M6x20 bolt, spring washer on pre-assembled rivet nut [2x]

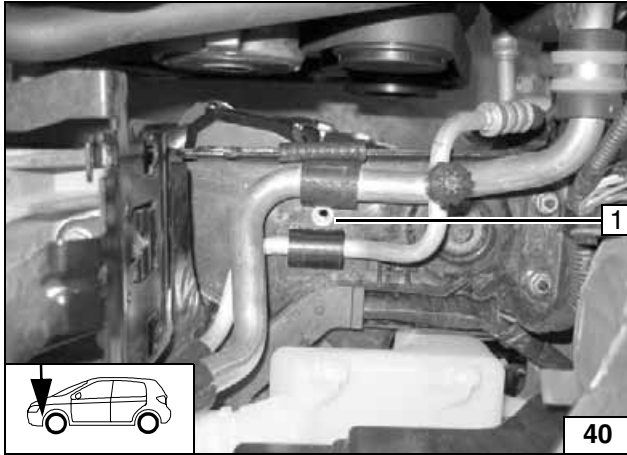
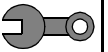
**Mounting the crossarm**



The bracket will be used again.

- 1 Air conditioner line bracket

**Remove the air conditioner line bracket**

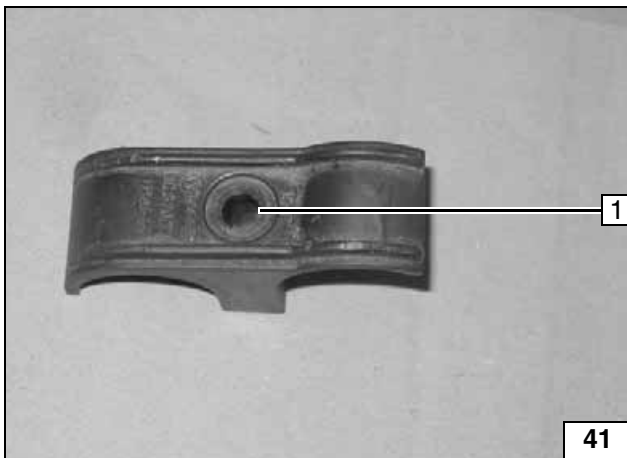


Do not damage the air conditioner lines when drilling.

- 1 Drill Ø 9mm bore hole; M6 rivet nuts

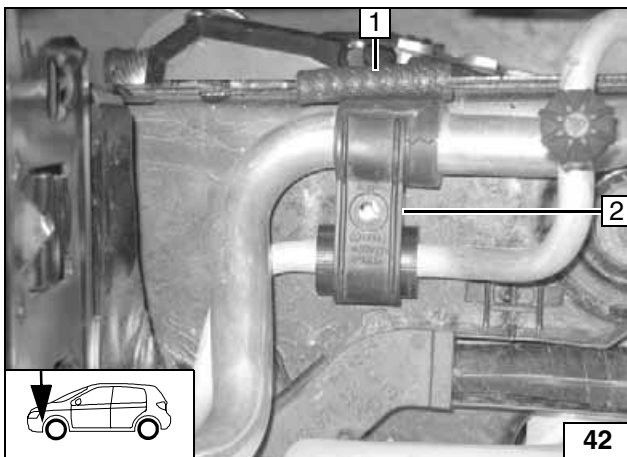


**Assembling the rivet nuts**



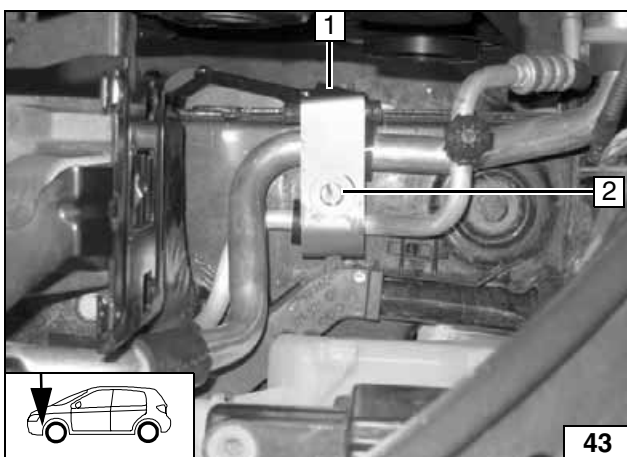
- 1 Drill open the hole to Ø 6.5mm

**Drill bracket**



- 1 50 mm edge protection
- 2 Loosely place the bracket in position

**Assembling the bracket**

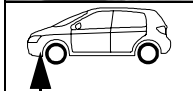
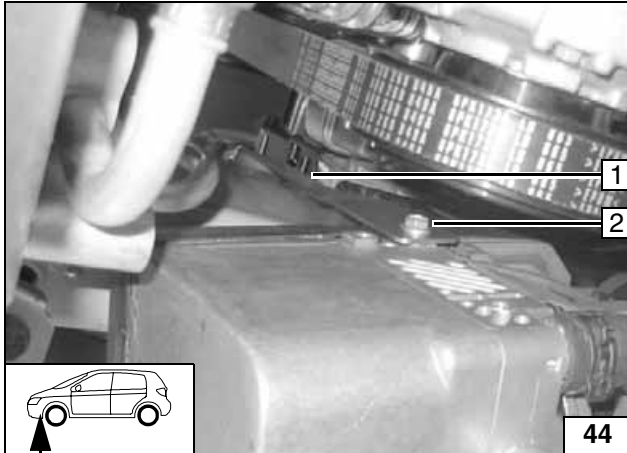
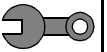


Only loosely assemble the bolt 2.

- 1 Strut
- 2 M6x50 bolt, spring washer, body washer



**Assembling the strut**



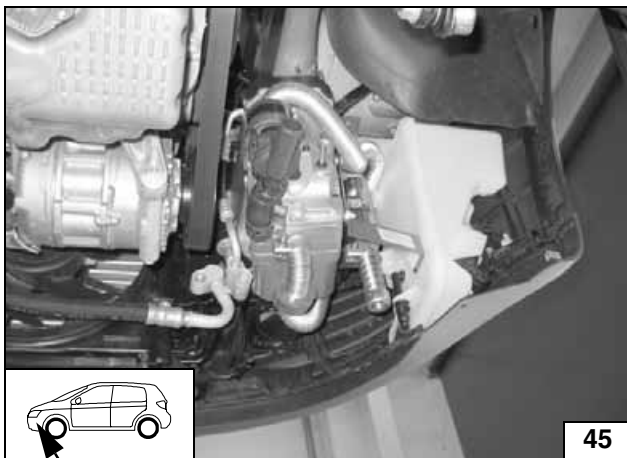
44

Only loosely assemble the Ejet screw bolt 2.

- 1 Strut
- 2 Ejet screw bolt



**Assembling the strut**



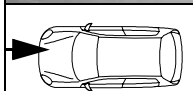
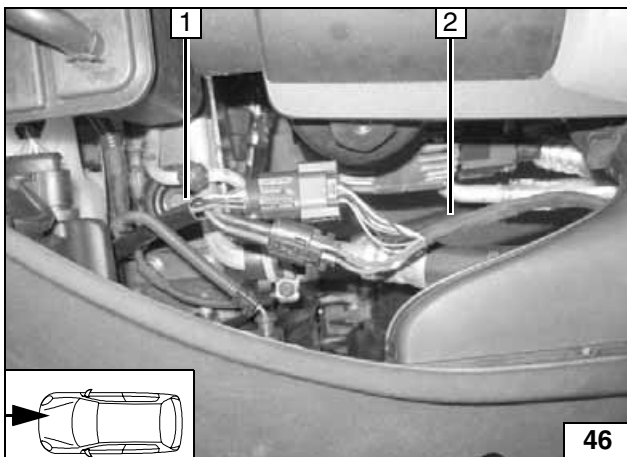
45

Test-fit the bumper. Check the position of all components; adjust if necessary. Check that they have free clearance.

Disassemble the bumper. Tighten all bolts for the bracket, struts, washer container, heater unit, and vehicle body.



**Align and tighten the components**



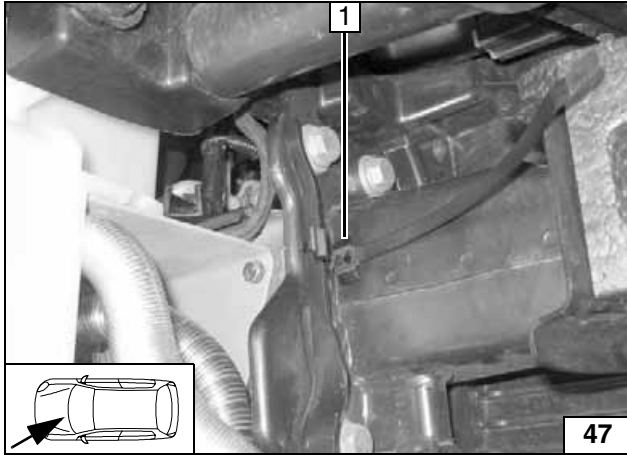
46

- 1 Adapter cable harness to the heater unit
- 2 Heater unit cable harness

Roll up extra cable harness. Fasten the cable harnesses to the original vehicle lines and the Bowden cable for the cover lock with table ties.

**Connecting the cable harnesses**

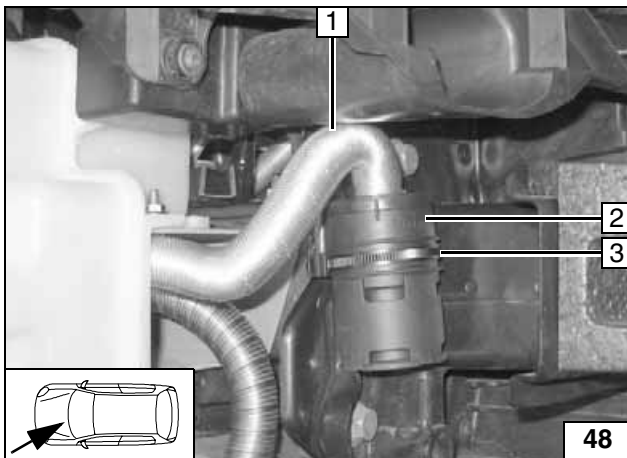




## Combustion Air Connection

1 Clip on cable clips in the original vehicle bore hole

Cutting the combustion air pipe to length



First close the clip-on cable clip (3), then slide on the intake silencer 2.

1 Combustion air intake pipe



Assembling the combustion air



**Fuel Connection**

**CAUTION!**

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

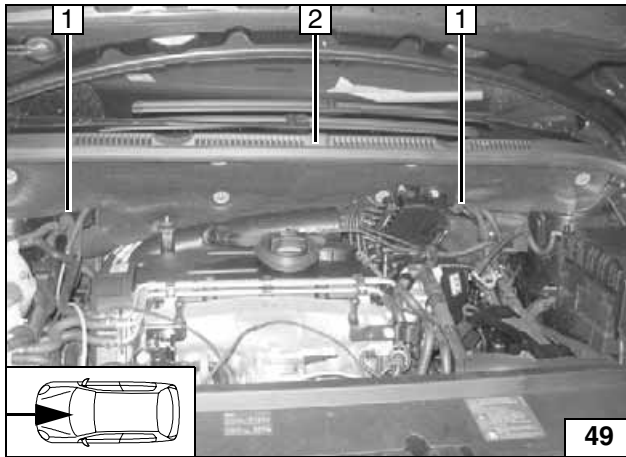
Catch any fuel running off with an appropriate container.

Install fuel line and metering pump cable harness so that they are protected against impact from rocks!  
Unless specified otherwise, always fasten using cable clips.

Fit the fuel line and cable harness with edge protectors around sharp edges.

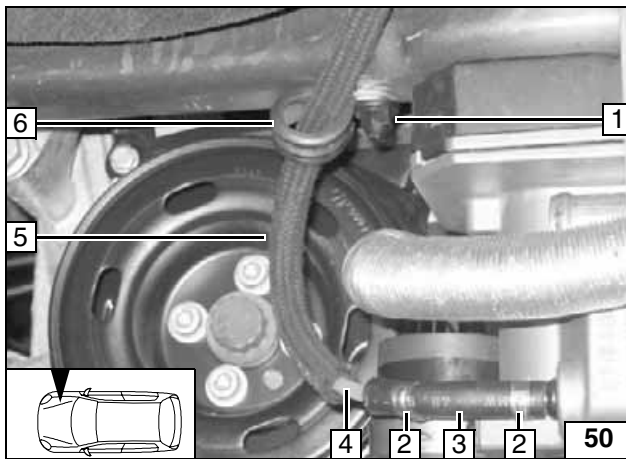
**WARNING!**

The fuel line and cable harness to the metering pump should be installed based on the cable harness installation diagram.

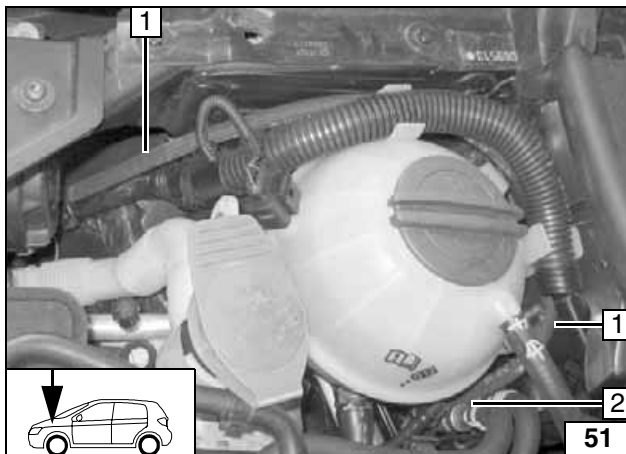


Move the metering pump cable harness in the cooling water reservoir to the right and fasten to original vehicle lines with cable clips. Pay special attention to the wiper shaft clearance

- 2 Loosen the cooling water reservoir cover
- 1 Metering pump cable harness



- 4 Mecanyl fuel line
- 5 Cut the woven protective hose to 1100 mm.
- 3 Sleeve
- 2 Ø 10 mm hose clamps [2x]
- 6 Rubberized tube clamp Ø 15 mm
- 1 Plastic washer on original vehicle stay bolts



Insert the Mecanyl fuel pipe 1 and metering pump cable harness in original vehicle line channel  
2, 52/1 and run to the underbody.

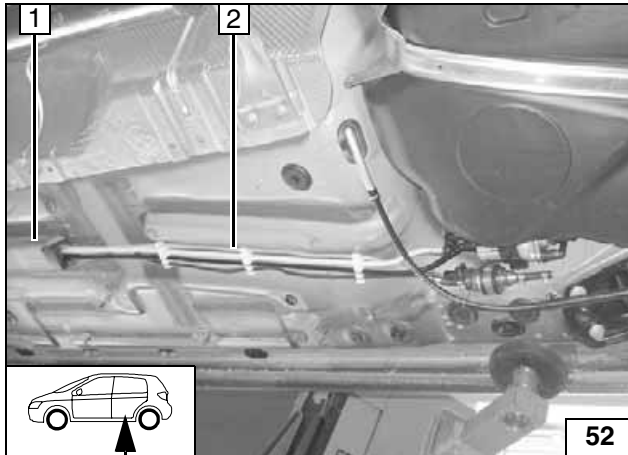
- 1 Mecanyl fuel line in the protective hose
- 2 Original vehicle cable channel



**Running the metering pump cable harness**

**Installing lines**

**Installing lines**

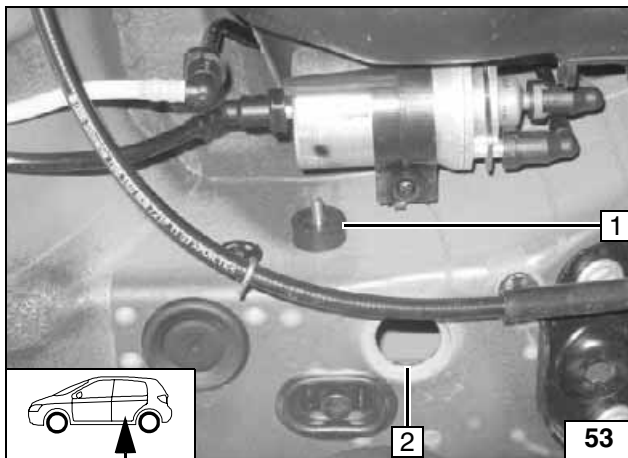


Run the Mecanyl line and metering pump cable harness along the original vehicle fuel lines 2 to the tank.

- 1 Cable channel

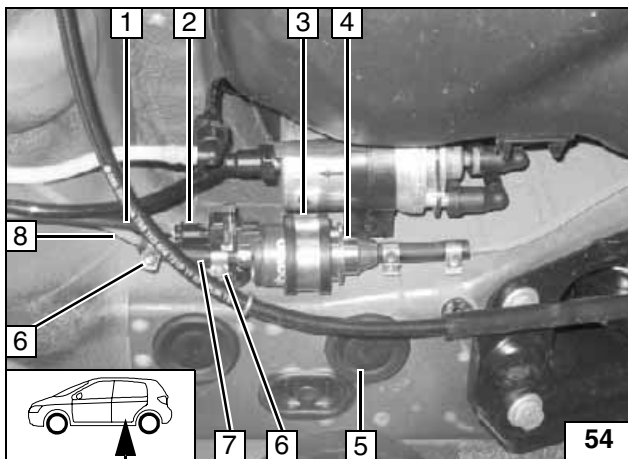


**Running the Mecanyl line and metering pump cable harness**



- 2 Stopper removed
- 1 Anti-vibration mount, upholstery washer, locknut M6

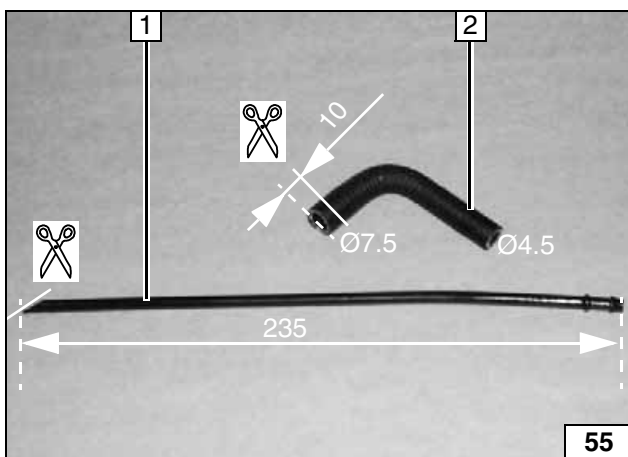
**Fit anti-vibration mount**



- 4 Metering pump
- 3 Rubberized tube clamp with flanged nut fastened to silentblock
- 1 Metering pump cable harness
- 2 Connector housing, single-core gasket, connector contact
- 8 Mecanyl pipe
- 7 Sleeve
- 6 Hose clip Ø 10 mm [2x]
- 5 Stoppers refitted



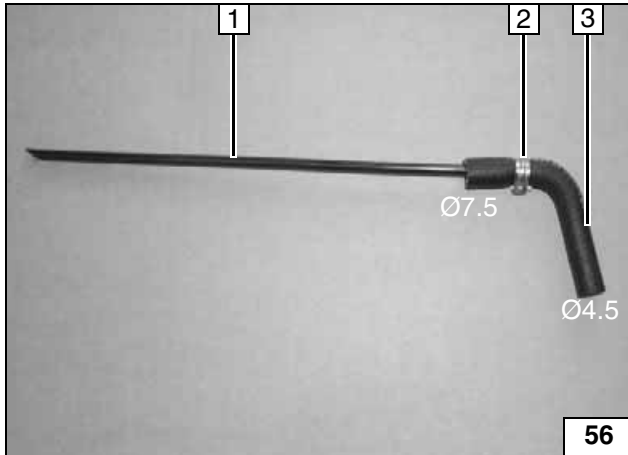
**Fit metering pump and connect at pressure side**



### Fuel extraction

- 1 Ascending pipe
- 2 Molded hose

**Shorten ascending pipe and molded hose**

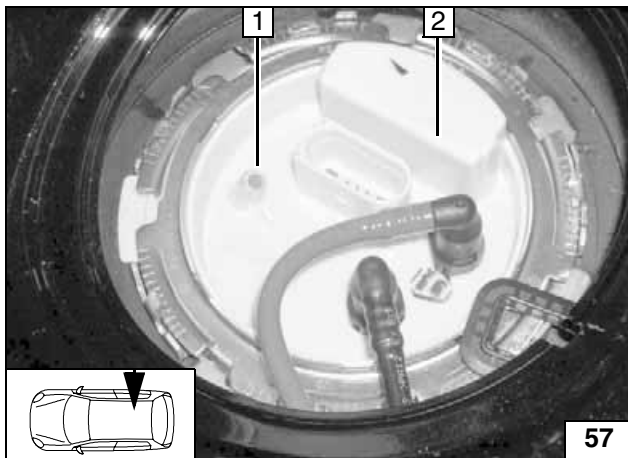


Universal clip (2) centered between tire beads on the ascending pipe end.

- 1 Ascending pipe
- 2 Universal clamp Ø 10 mm
- 3 Molded hose



**Shorten ascending pipe and molded hose**

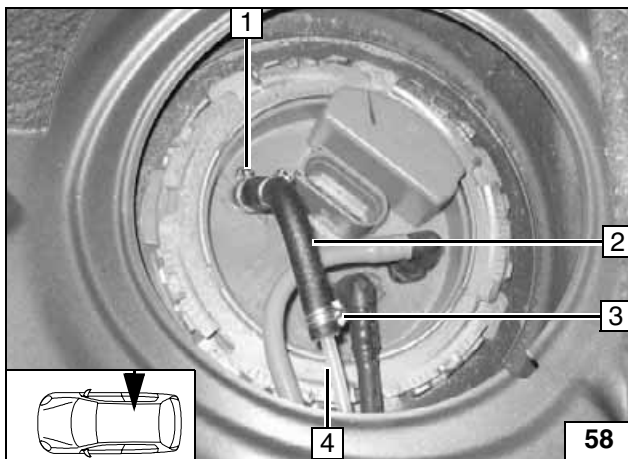


Cut off 3 mm from blind end

- 1 Cut off tip of blind end
- 2 Tank mounting



**Cut off blind end**

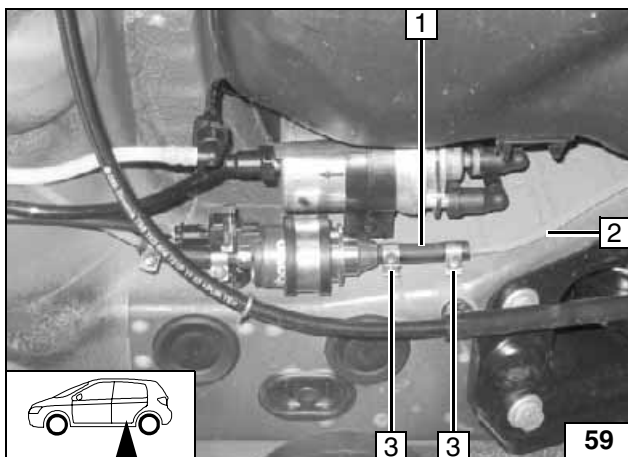


If the ascending pipe is supplied slightly bent, arrange it so that the end points to the rear and to the right  
Otherwise there is a risk that the fill indication will be affected

- 1 Universal clamp Ø 13.5 mm
- 2 Pre-fitted molded hose with ascending pipe
- 3 Universal clamp Ø 10 mm
- 4 Remaining section of Mecanyl pipe



**Connection to tank mounting**



- 2 Mecanyl pipe from tank mounting
- 1 Sleeve
- 3 Hose clip Ø 10 mm [2x]



**Connecting the metering pump, suction side**

Align the entire length of the Mecanyl pipes and the metering pump cable harness and fasten with cable clips.







**Water Connection**

**WARNING!**

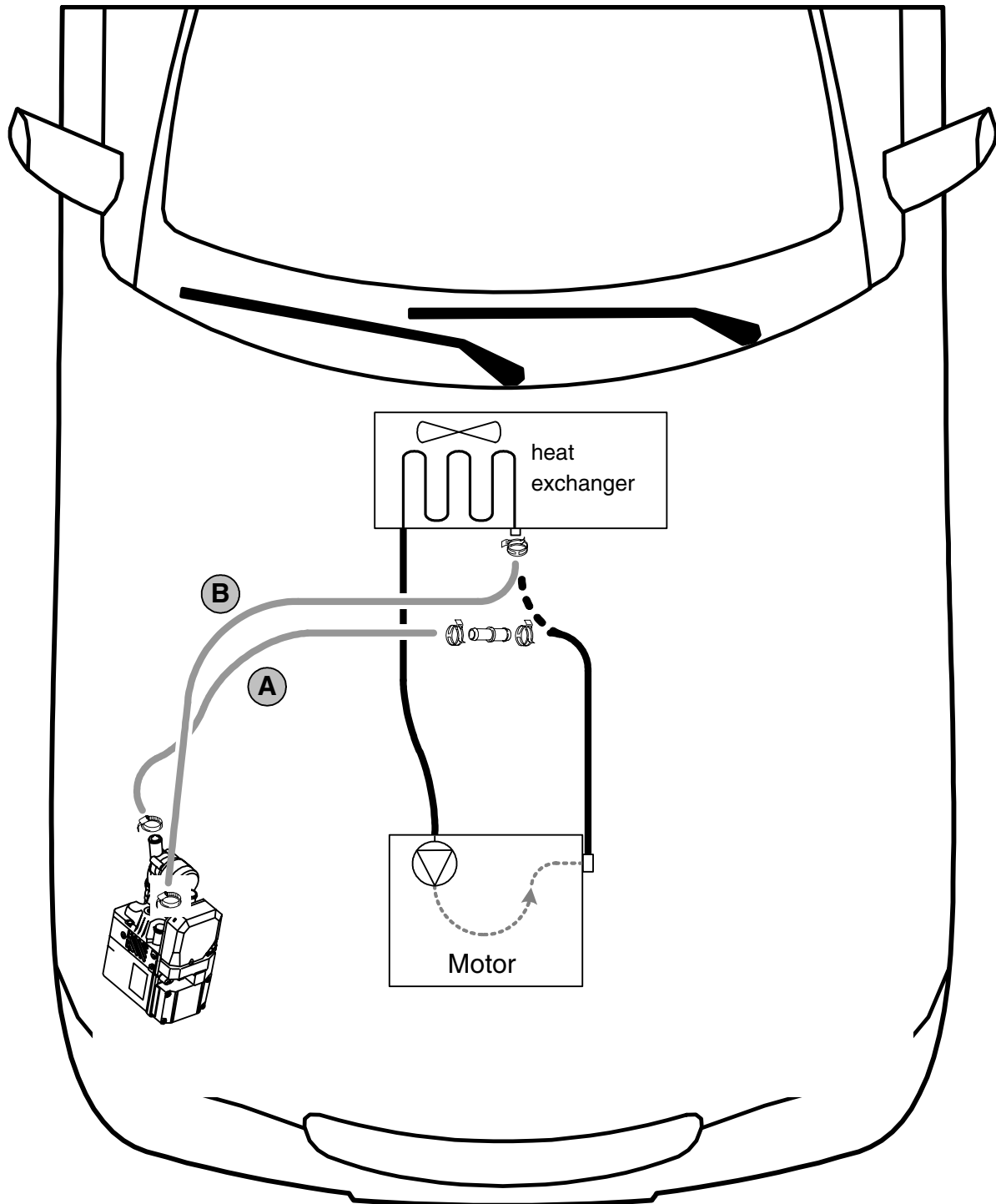
Tighten all hose clamps to 2.0 + 0.5 Nm.

Any coolant running off should be collected using an appropriate container.

Route hoses so that they are kink-free. Unless specified otherwise, always fasten using cable clips.

Position hose clamps and spring band clamps so that no other hose can be damaged.

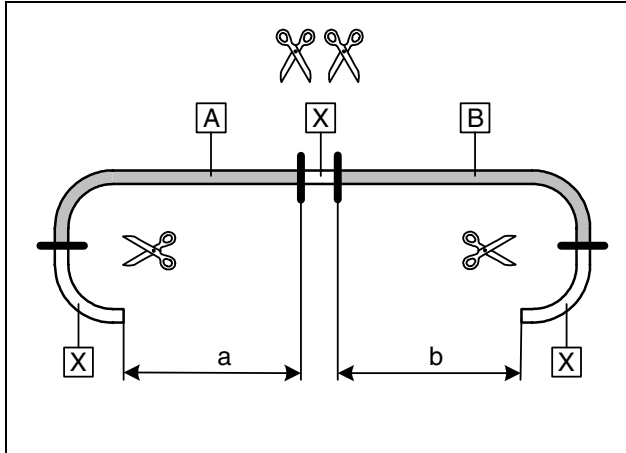
The connection should be "inline" based on the following diagram:



Water installation diagram

All hose clamps = Ø 20-27 mm. All spring band clamps = Ø 27 mm.  
Connecting pipe = Ø 20x20.

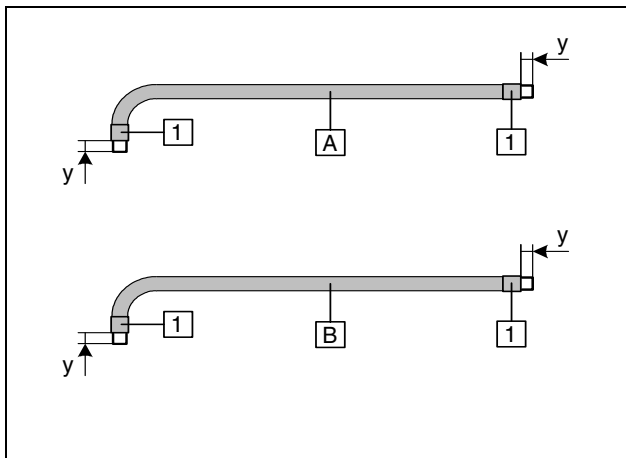




a = 900mm  
b = 950mm

Dispose of sections **X**

**Cutting water hoses into sections**



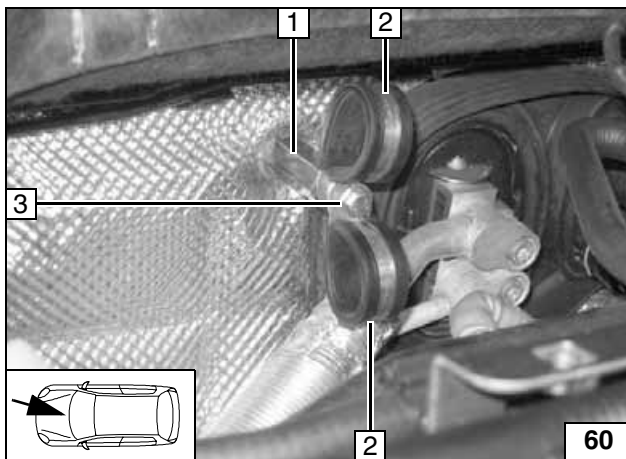
Slide braided protective hoses onto hoses **A** and **B**. Slide on shrink fit hoses and shrink-fit.

y = 25mm

**1** 50mm shrink-fit hose [4x]



**Preparing the water hoses**



For a better overview, the complete documentation for connecting water to the 2.0FSI follows.

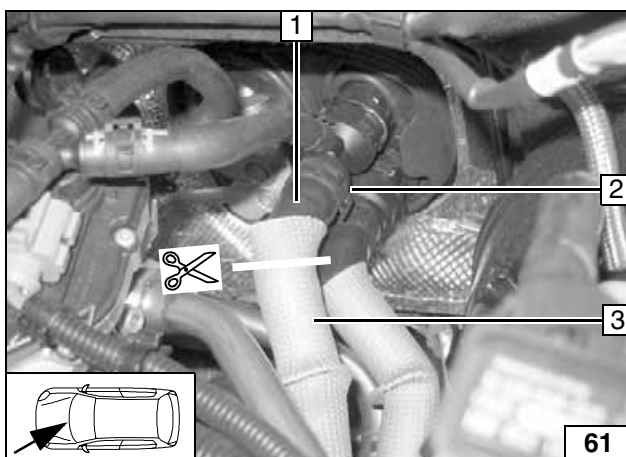
The technical connection is the same for 1.6MPI.

Only loosely assemble the bolt **3**.

- 1** Body washer, 40mm spacer nut on original vehicle stay bolts
- 2** Rubberized tube clamp Ø 29 mm [2x]
- 3** M6x20 bolt, spring washer



**Pre-assembling the fastener**



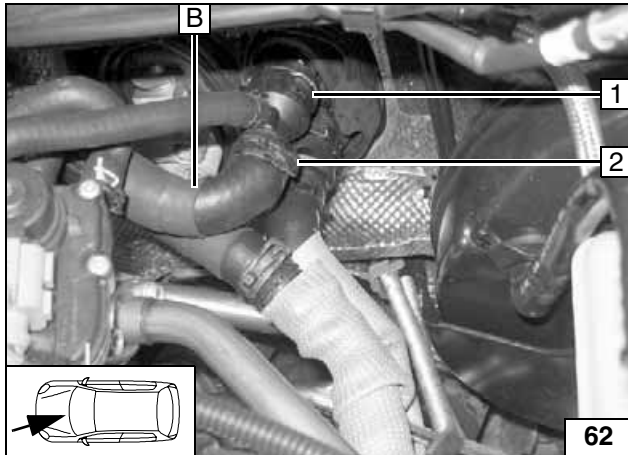
**1** Original vehicle hose section to the heat exchanger inlet

**3** Original vehicle hose section from engine outlet

**Splitting point**

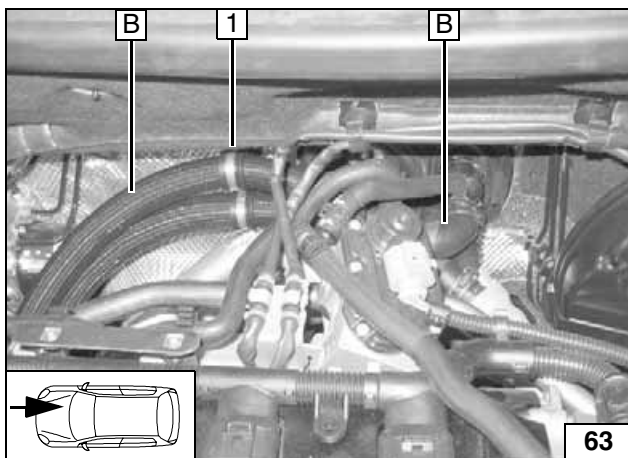
Remove the hose section **1** and dispose. The spring band clamp **2** will be used again.





- 1 Heat exchanger inlet
- 2 Original vehicle spring band clamp

Connection on the heat exchanger inlet

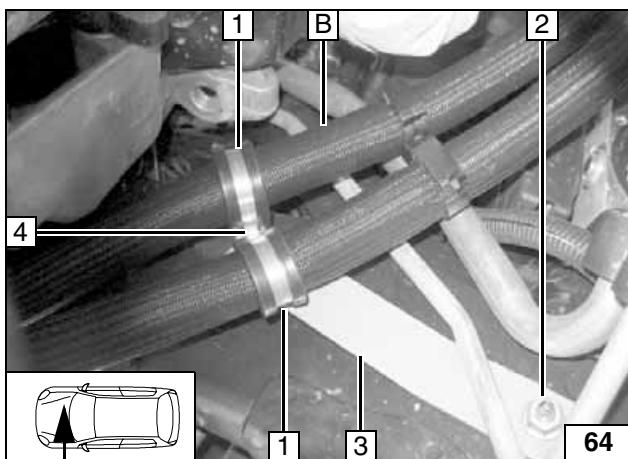


Run hose **B** through the upper tube clamp .

- 1 Rubberized tube clamp Ø 29 mm (pre-assembled)



Hose placement

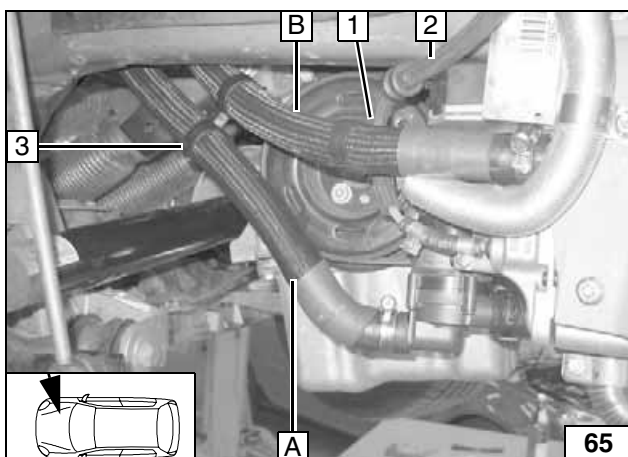


Check the distance between the strut **3** and the air conditioner line.  
Only loosely assemble the bolt **4**.  
Run hose **B** through the upper tube clamp .

- 3 Strut
- 2 Original vehicle M8 nut
- 1 Rubberized tube clamp Ø 29 mm [2x]
- 1 Bolt M6x20, flanged nut



Hose placement

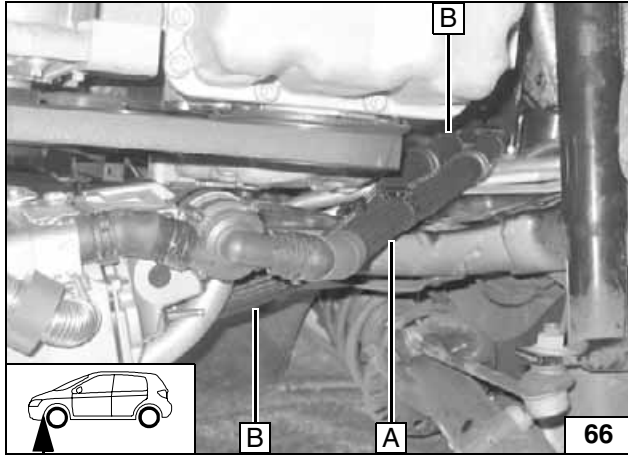


Connect the fuel line **2** and hose **B** to position **1** with cable clips.

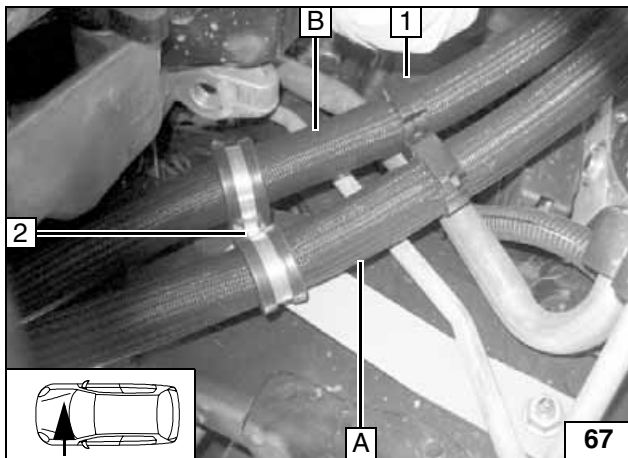
- 1 Cable clips
- 3 Double clip 27x27, can be locked



Connecting to the heater unit

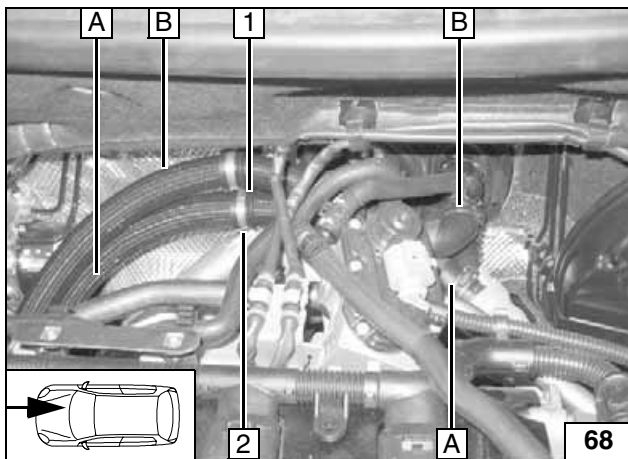


Hose placement



Run hose **A** through the lower tube clamp.

- 1 Double clip 27x27, can be locked
- 2 Tighten the M6x20 bolt, flanged nut



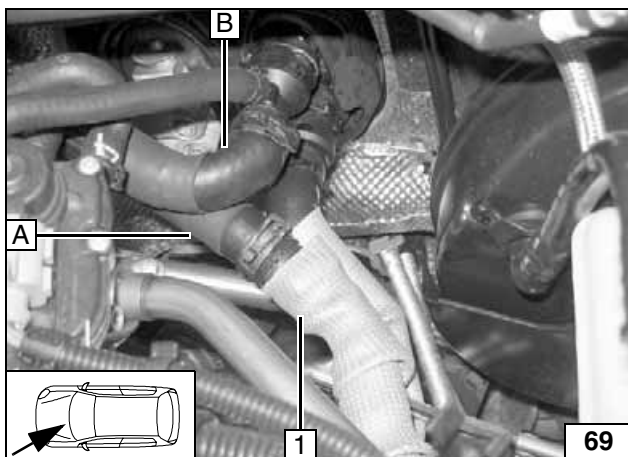
Run hose **A** through the lower tube clamp.

- 2 Rubberized tube clamp Ø 29 mm (pre-assembled)
- 1 Tighten the M6x20 bolt



Hose placement

Hose placement



Before connecting, fill the hoses with coolant.

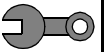
- 1 Original vehicle hose from the engine outlet



Connecting to the engine outlet

Check the placement of hoses **A, B** along the entire length and correct if necessary.





## Final work

### WARNING!

Reassemble disassembled components in reverse order.

Check that all hose lines, spring clips and universal clips, and all electrical connections are securely fastened.

Only use manufacturer-approved coolant.

Secure all loose cables using cable clips.

Spray heating unit components with anti-corrosion wax (Tectyl 100K, Order No. 111 329).

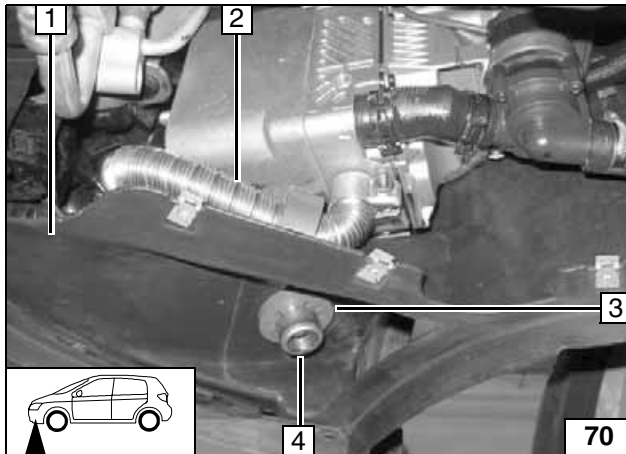
- Connect battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Set the time switch.
- Set vehicle heating according to "Operating instructions for the end customer"
- Check that the auxiliary heating operates properly, see operating instructions / installation instructions.
- File accompanying original vehicle "operating instructions for the end customer" in the log book
- Attach the "Switch off auxiliary heating before re-fuelling" sticker onto the left side of the B-pillar.

## Adaptation of the sensitivity of passenger compartment monitoring

### WARNING!

May only be carried out in authorized garage! Observe the valid repair manual for the vehicle in question!

- Connect the VAG Tester
- Call up Pos. 46 (Comfort system central module)
- Go to Pos. 10 (Adjustment)
- Obey the request to enter the code and enter the code 15
- Reduce the sensitivity of the interior monitoring to 50%
- Save this setting
- The adjustment of the interior monitoring is complete



Hole  $\varnothing$  42mm at position **4**. Align the exhaust end section **4** flush with the red (rt) rubber profile **3**, according to the illustration.

- 1** Wheel-house panel
- 2** Exhaust pipe

Ensure sufficient distance of the exhaust system from adjacent components. If necessary, correct the position.



**Exhaust lines**



# Webasto

*Feel the drive*

Webasto AG  
Postfach 80 - 82132 Stockdorf - Hotline 0 18 05 / 93 22 78  
Hotfax (0395) 55 92-353 - <http://www.webasto.de>

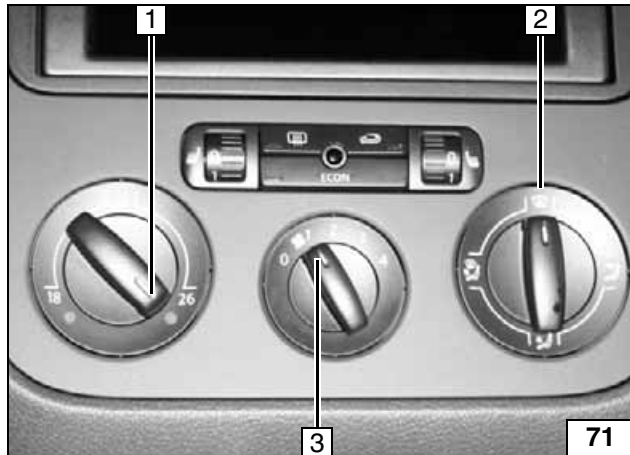
## Operating instructions for the end customer

Please remove page and add to the vehicle operating instructions.

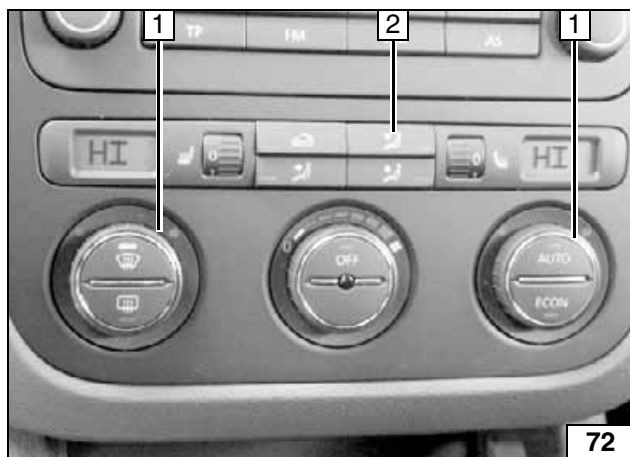


The recommended minimum warm-up time is 20 minutes.

Before parking the vehicle, make the following settings:



- 1 Temperature to "max."
- 2 Air outlet to windshield
- 3 Blower set to "1" or "2"



- 1 Temperature to "HI". [2x]
- 2 Air outlet upwards

Vehicles  
without  
Climatronic

Vehicles  
with  
Climatronic