Water heater

***Thermo Top E* Parking heater** e1 00 0003

***Thermo Top C* Parking heater** e1 00 0002

***Thermo Top P* Parking heater** e1 00 0104

Installation documentation

VW Passat / Passat CC

Diesel PD
Diesel CR 6-step gear box
from Model Year 2005
Left-hand drive vehicle

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.

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

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

Ident. No.: 9013732D_EN Fee Euro 10.00

Table of Contents

Validity

Manufacturer	Model	Type	EG-BE No./ABE
Volkswagen	Passat	B6	e1 * 2001/116 * 0307 * ...
Volkswagen	Passat CC	3CC	e1 * 2001/116 * 0468 * ...
Volkswagen	Passat	3C	e1 * 2001/116 * 0307 * ...

Engine type	Engine model	Output in kW	Displacement in cm³
BKC	Diesel	77	1896
BKP	Diesel	103	1968
BMP	Diesel	103	1968
BMN	Diesel	125	1968
CBAB	Diesel CR	103	1968
CFFB	Diesel CR	103	1968

Vehicle and engine types, equipment variants and national specifications not listed in these installation instructions have not been tested. However, installation according to these installation instructions may be possible.
The installation location of the digital timer should be confirmed with the end customer before installation.

Heater/Installation Kit

Quantity	Description	Order No.:
1	Retail accessories *Thermo Top E / C / P*	See Price list
1	Installation Kit for VW Passat PQ46 Diesel	9013731B
1	Heater control	See Price list

Also required with Climatronic:

Quantity	Description	Order No.:
1	IPCU Kit for Climatronic	9013645A

Foreword

These installation instructions apply to VW Passat vehicles with a Diesel engine - for validity, see above - from model year 2005 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 this installation documentation.

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

General Instructions

Installation should be carried out according to the general, standard rules of technology. Unless specified otherwise, fasten hoses, lines and wiring harnesses to original vehicle lines and wiring harnesses using cable ties.
Sharp edges should be fitted with edge protectors (split-open plastic hose).
Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329).

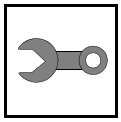
Special Tool

- Torque wrench for 2.0 - 10 Nm
- Hose clamping pliers
- Metric thread-setter kit
- VAS tester (adjustment of passenger compartment monitoring)

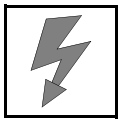
Explanatory Notes on Document

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

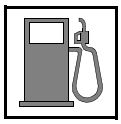


Electrical system

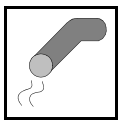


Coolant circuit

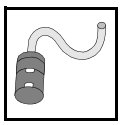
Fuel



Exhaust gas



Combustion air



Software

Special features are highlighted using the following symbols:

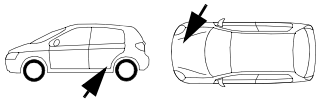
Specific risk of injury or fatal accidents.

Specific risk of damage to components.

Specific risk of fire or explosion.

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

Reference to a special technical feature.



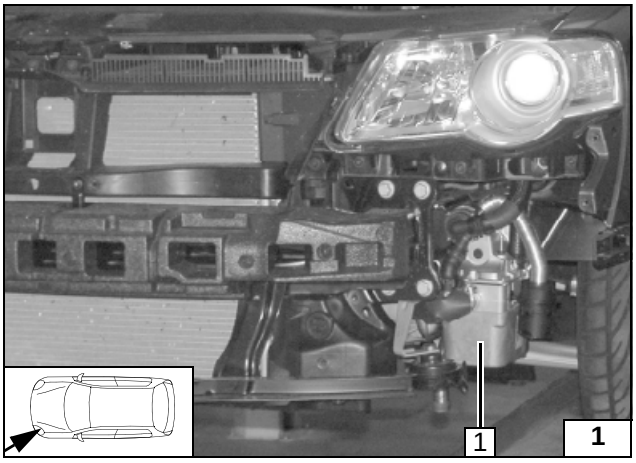
The arrow in the vehicle icon indicates the position on the vehicle and the viewing angle.

All dimensions are in mm!
Tightening torque of hose clamps = 2.0 + 0.5 Nm!
Tightening torque of Ejot screws, Ejot studs = 10 Nm!

Preliminary Work

WARNING!

- Disconnect the battery "earth" or "ground" connection.
- Completely remove the battery together with the carrier.
- 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.
- Remove the air filter together with the intake hose.
- Remove the fuse and relay box.
- Open the fuel tank cap, ventilate the tank.
- Close the tank cap again.
- Remove the front left wheel.
- Remove the left-hand wheel well trim.
- Remove the underride protection
- Remove the right-hand underbody trim.
- Remove the rear bench seat.
- Remove the tank-fitting service lid.
- Remove the fuel-tank sending unit in accordance with the manufacturers specifications.
- Only on vehicles with Climatronic, remove radio or navigation system cover.
- Only on vehicles with Climatronic, remove the A/C control panel.
- Only on vehicles with a particle filter, remove the engine cover and the charge-air hose



Heater installation location

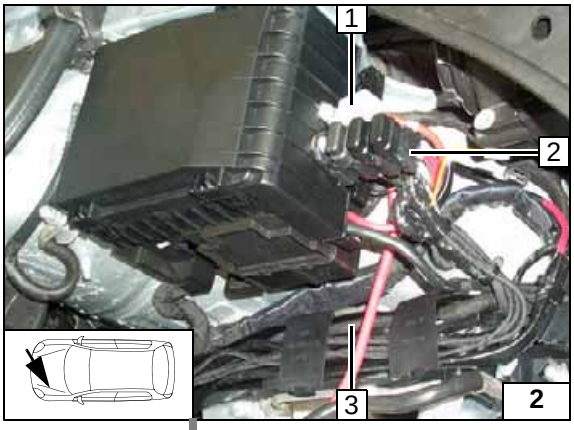
Bumper only removed for a better illustration

1 Heater

Electrical system

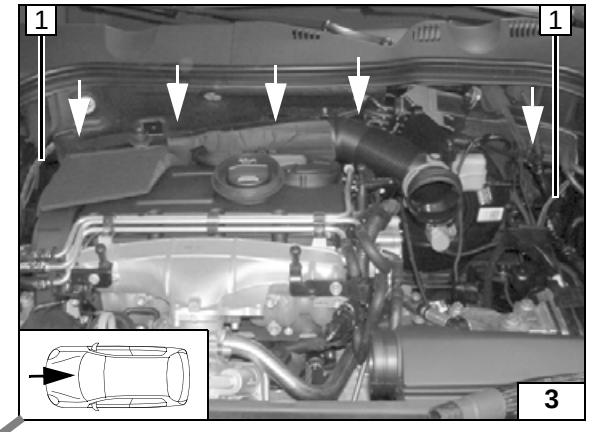
Fuse holder

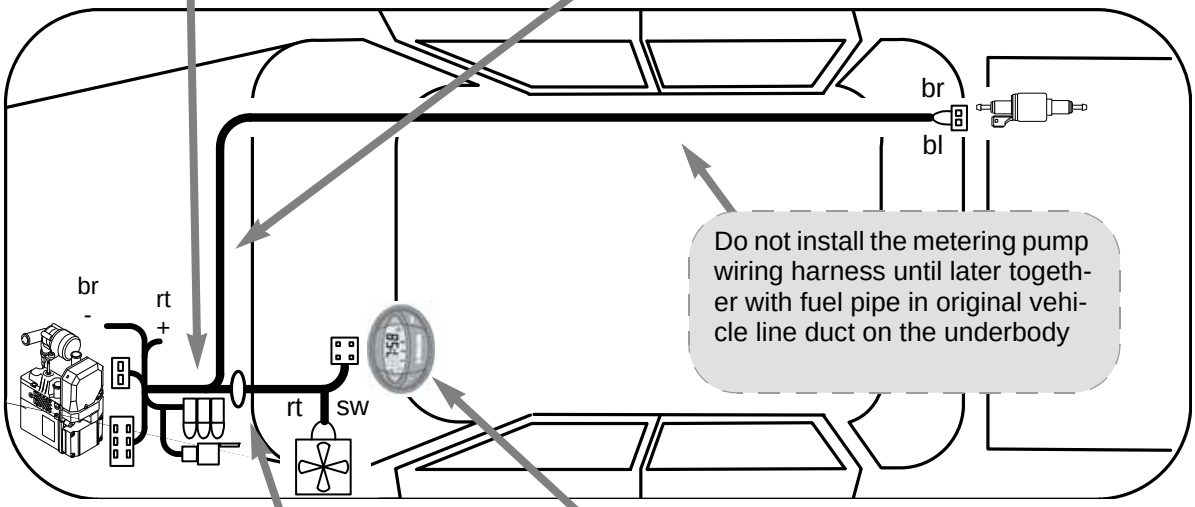
1 K3 relay
2 Fuse holder
3 Route wiring harnesses of heater control, fan controller and metering pump with fuel line in cable duct to firewall



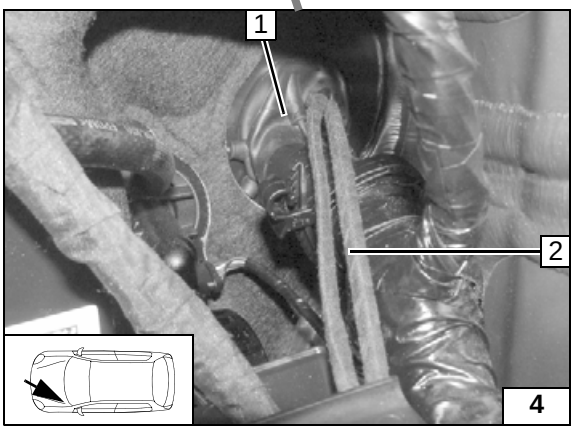
Wiring routing

1 Route fuel line and wiring harness of metering pump behind insulation mat



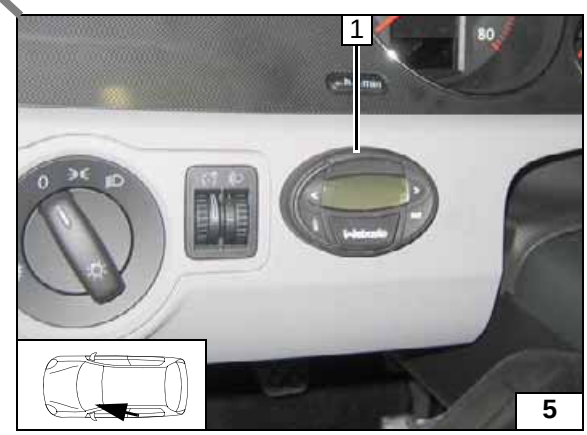


Wiring harness installation diagram



Cable pass through

1 Original vehicle cable pass through
2 Wiring harnesses for fan controller and heater control



Digital timer

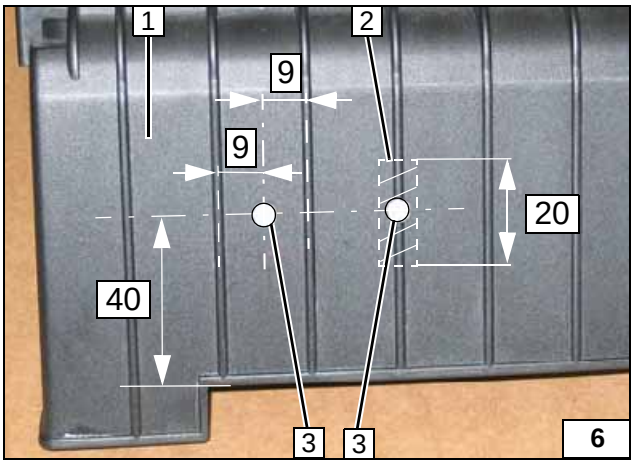
1 Digital timer

Fuse holder and relay K3

Countersink holes **3** from behind for M5 countersunk head screws.

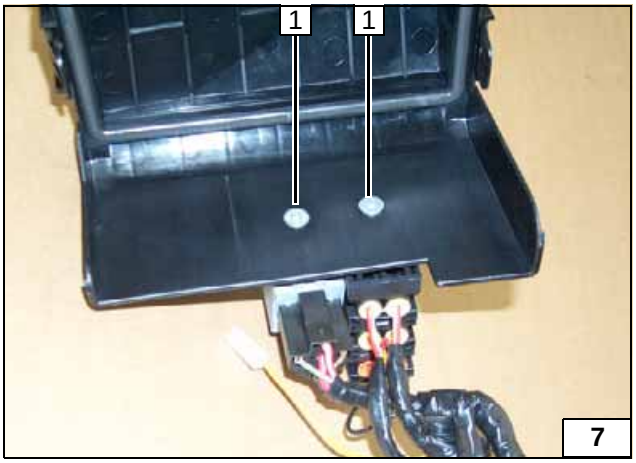
1 Cover of fuse/relay carrier in engine compartment
2 Cut away bar in shaded area
3 5 mm dia. hole [2x]

Holes in cover



1 M5x12 countersunk head screw [2x]

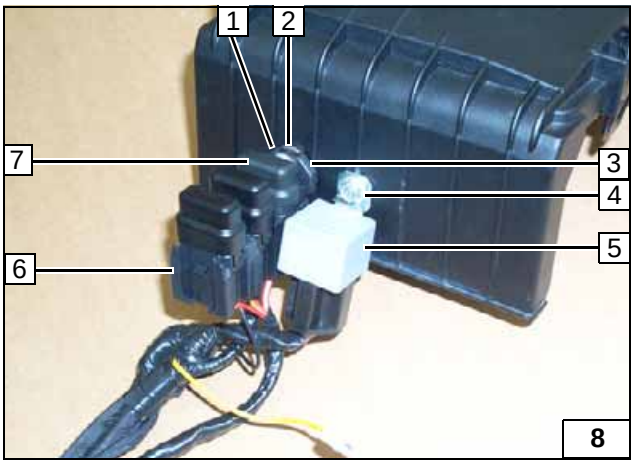
Installing fuse holder and relay K3



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

1 M5 flanged nut
2 Large diameter washer (between cover and retaining plate)
3 Retaining plate
4 M5 flanged nut
5 Relay K3
6 Fuse holder

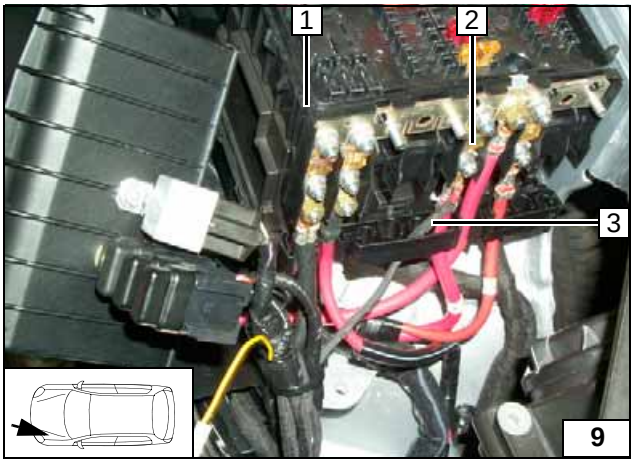
Installing fuse holder and relay K3



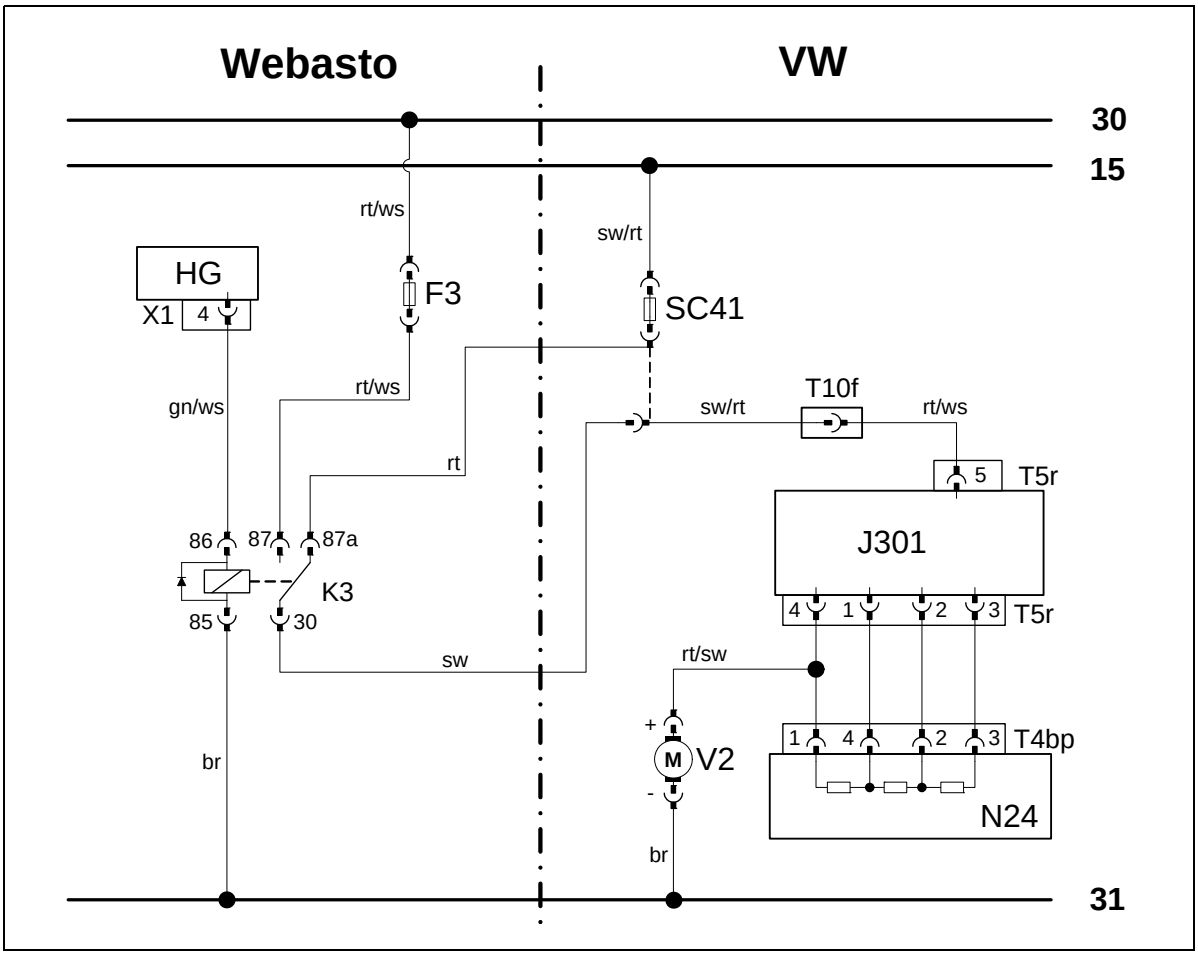
Route brown (br) earth wire to original vehicle earth support point below headlight and connect.

1 Fuse/relay carrier
2 Original main vehicle fuse
3 Red (rt) positive wire

Connecting positive and earth wire



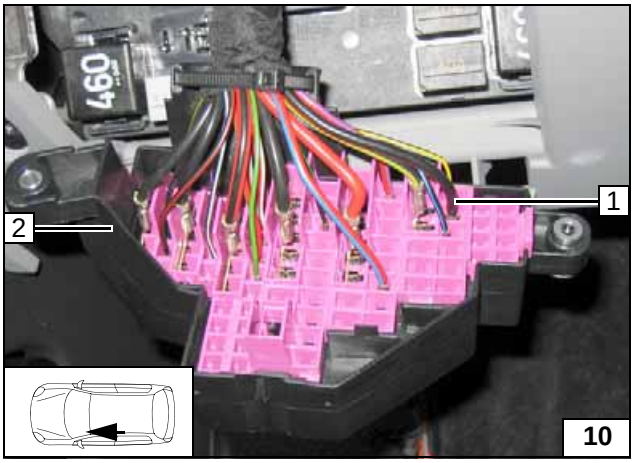
Fan controller without Climatronic



Wiring diagram without Climatronic

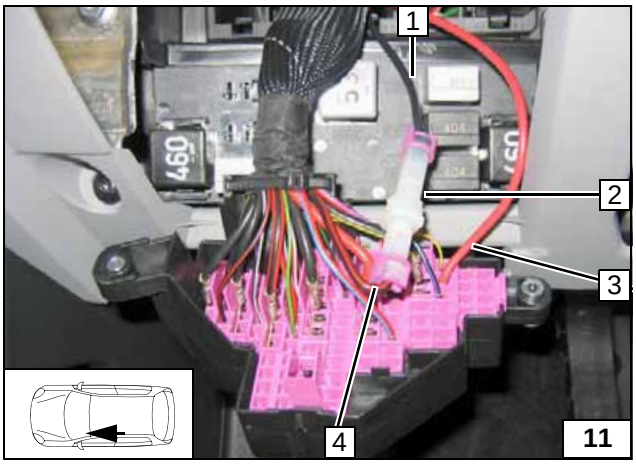
Webasto components		Vehicle components		Colours and symbols	
HG	Heater TT-C/E/P	SC41	40 A fan-fuse	rt	red
X1	6-pin heater connector	J301	Control unit of A/C	ws	white
F3	25 A fuse	N24	Resistor group	sw	black
K3	Fan relay	V2	Fan motor	br	brown
		T...	Connector	gn	green

Legend



Release original vehicle fuse holder **2** (instrument panel at upper left). Uncrimp black/red (sw/rt) wire **1** on fuse output SC41.

Uncrimping wire

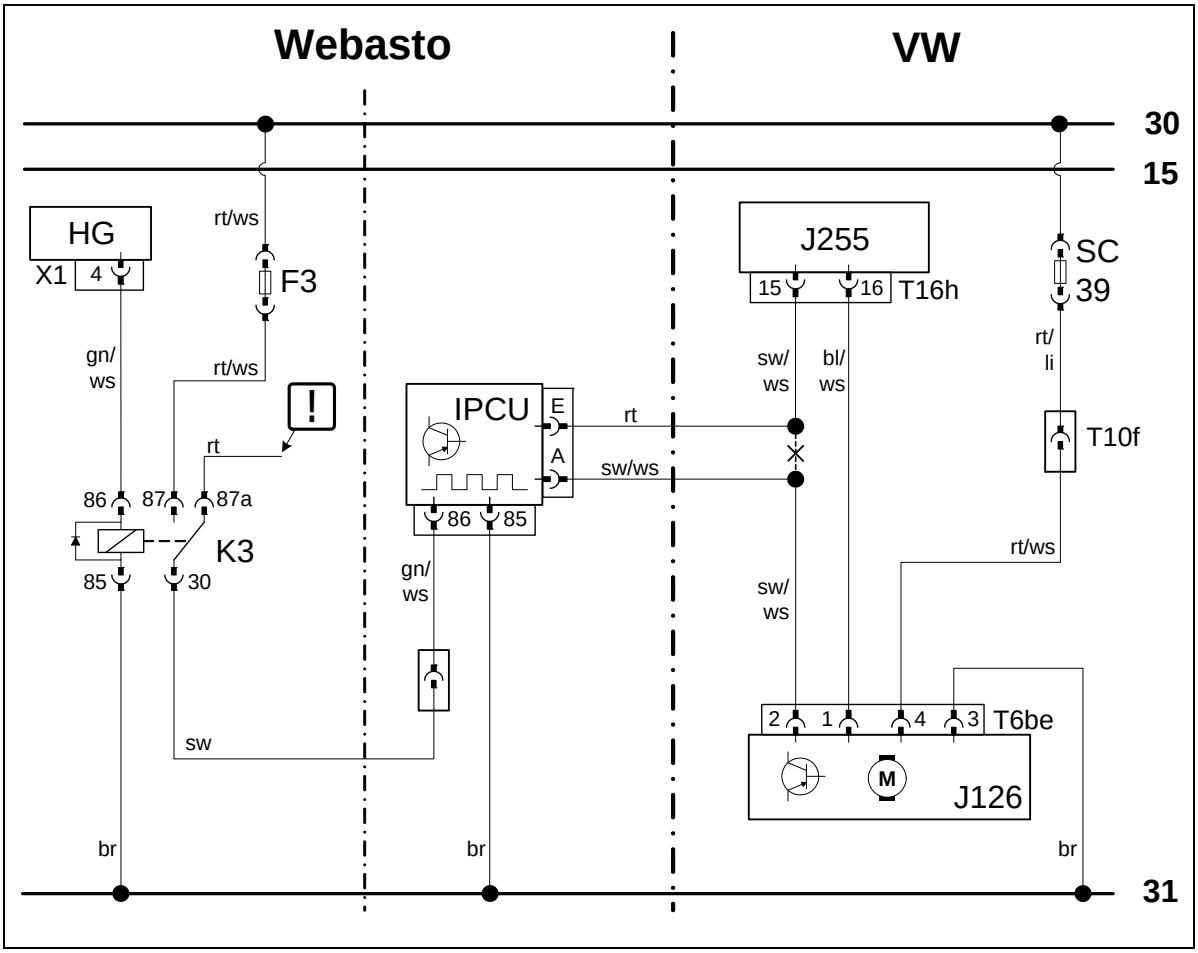


Produce connections as shown in wiring diagram.

1 Black (sw) wire from K3/30
2 AMP connector
3 Red (rt) wire K3/87a, standard power timer
4 Black/red (sw/rt) wire

Connecting wires

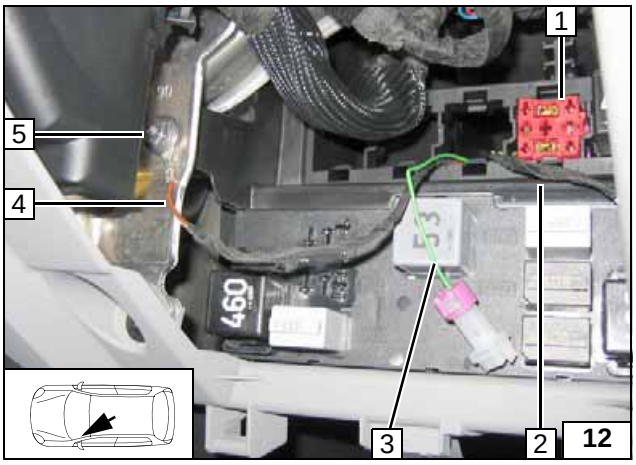
Climatronic fan controller



Climatronic wiring diagram

Webasto components		Vehicle components		Colours and symbols	
HG	Heater TT-C/E	SC 39	40 A fan-fuse	rt	red
F3	Fuse (25 A replaced with 3 A)	J255	Climatronic control unit	ws	white
		J126	Fan control unit	sw	black
K3	Fan relay	V2	Fan motor	br	brown
IPCU	Pulse width modulator	T...	Plug connections	gn	green
				li	purple
				bl	blue
				!	Insulate wire end and tie back
				X	Cutting point

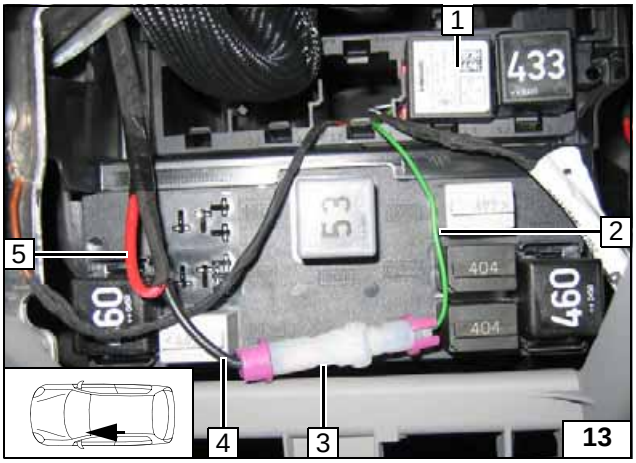
Legend



Position of free socket dependent on vehicle equipment. Install wiring harness **2** (Red and black/white (rt and sw/ws) wire IPCU) to the centre console.

1 IPCU socket
3 Green/white (gn/ws) wire of IPCU/86
4 Brown (br) wire IPCU/85
5 Original vehicle nut

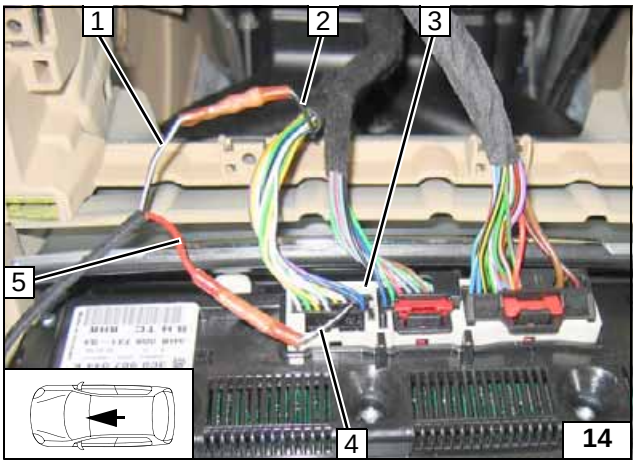
Installing IPCU socket



Produce connections as shown in wiring diagram. Insulate red (rt) wire K3/87a **5** and tie back.

1 IPCU mounted
2 Green/white (gn/ws) IPCU/86
3 AMP connector
4 Black (sw) wire from K3/30

Connect IPCU

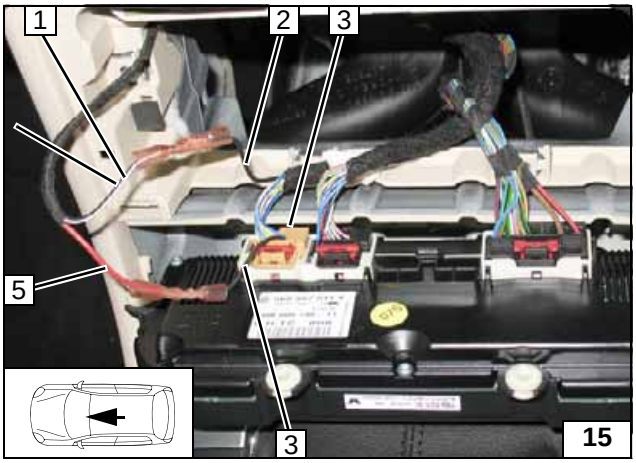


Create connection on connector T16h **3** from the A/C control panel according to the circuit diagram depending on the vehicle equipment.

Version 1:

1 Black/white (sw/ws) wire of IPCU/A
2 Black/white (sw/ws) wire from fan unit
3 Connector T16h
4 Black/white (sw/ws) wire from connector T16h/15
5 Red (rt) wire of IPCU/E

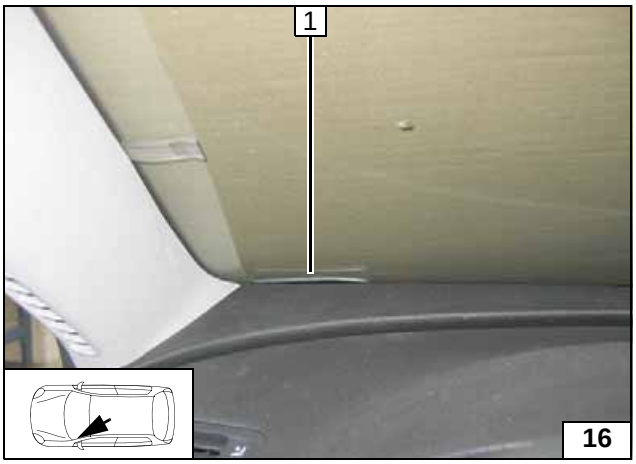
Connecting A/C control panel



Version 2:

1 Black/white (sw/ws) wire of IPCU/A
2 Black/white (sw/ws) wire from fan unit
3 Connector T16h
4 Black/white (sw/ws) wire from connector T16h/15
5 Red (rt) wire of IPCU/E

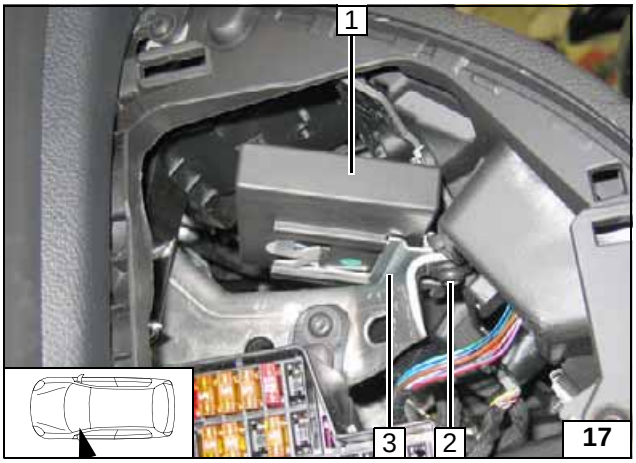
Connecting A/C control panel



Remote option (Telestart)

1 Antenna

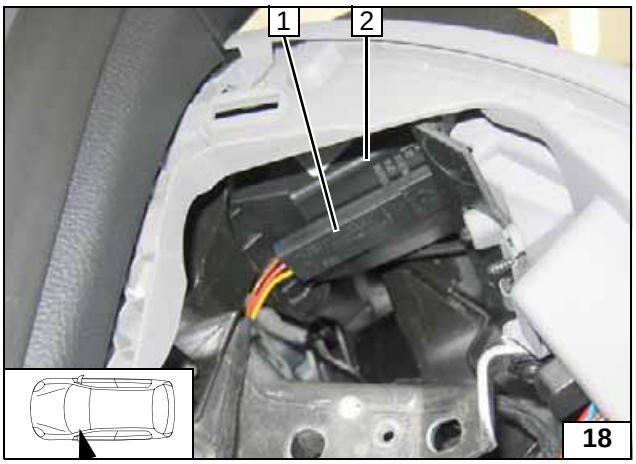
Installing antenna



Rebend bracket **3** if necessary.

1 Receiver
2 Original vehicle bolt

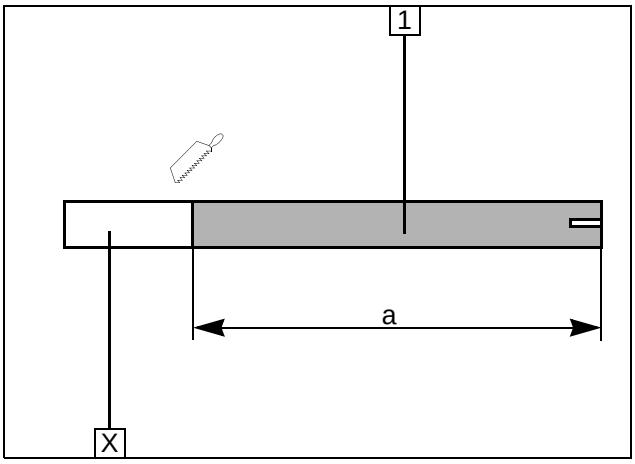
Installing receiver



Temperature sensor T100 HTM

Fasten temperature sensor **1** with adhesive tape.

Installing temperature sensor

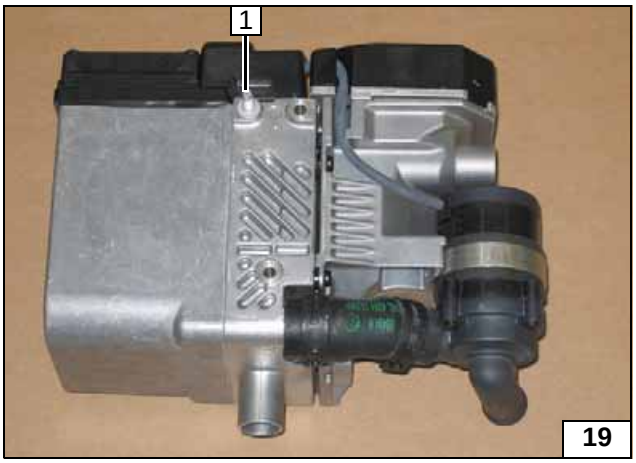


Premounting heater

Discard section **X**.

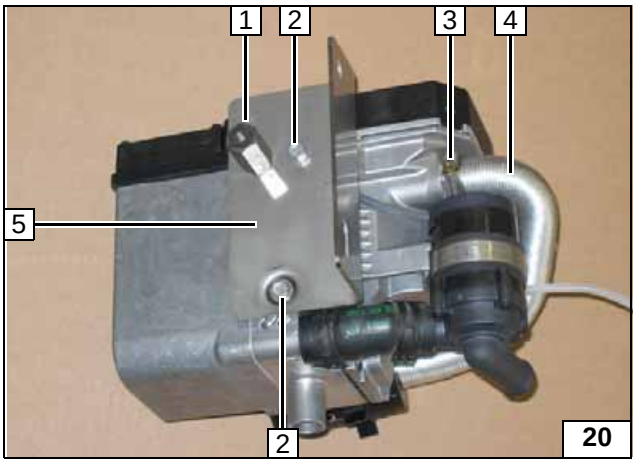
1 Combustion air pipe
a = 250

Cutting combustion air pipe to length



1 Ejot stud

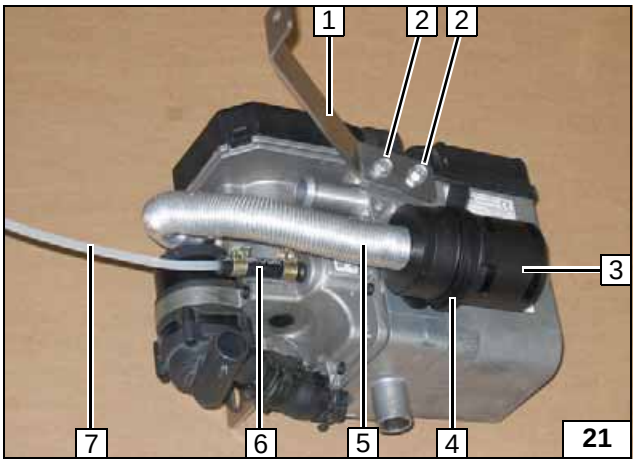
Premounting heater



Insert one washer each between heater and bracket at positions **2**.

1 M6x30 spacer nut
2 Ejot screw, washer [2x each]
3 27 mm dia. clamp
4 Combustion air pipe
5 Bracket

Premounting heater

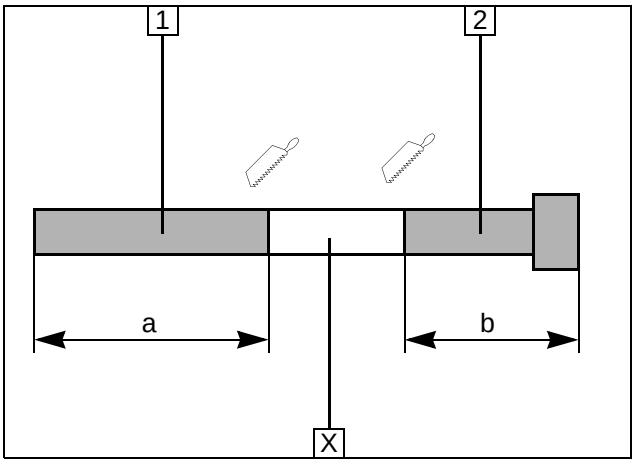


1 Strut
2 Ejot screw [2x]
3 Silencer
4 Retaining clip in hole
5 Combustion air pipe
6 Hose section, 10 mm dia. hose clamp [2x]
7 Fuel line

Premounting heater

Premounting exhaust system

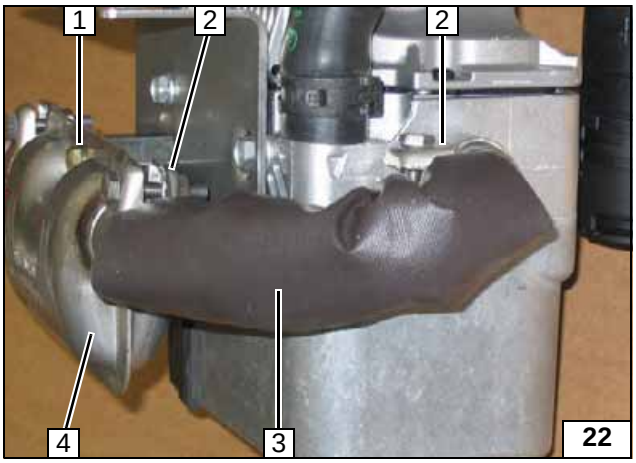
Preparing exhaust pipe



Discard section **X**.

1 Exhaust pipe
a = 190
2 Exhaust end section
b = 240

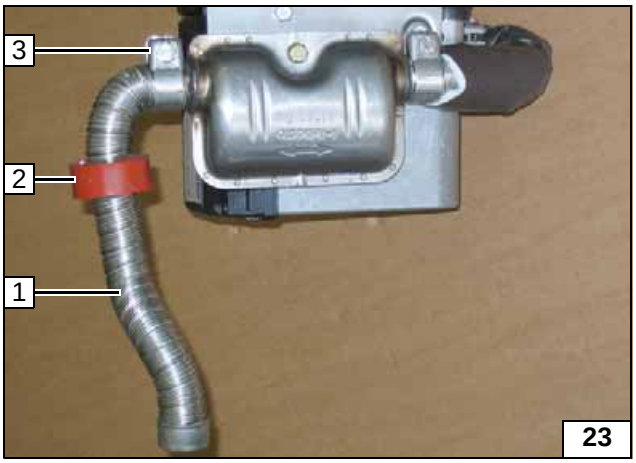
Installing exhaust pipe



Slide insulation **3** onto exhaust pipe.

1 M6x16 bolt, spring lockwasher
2 Hose clamp [2x]
4 Silencer

Installing exhaust end section



1 Exhaust end section
2 Slide on red rubber isolator
3 Hose clamp

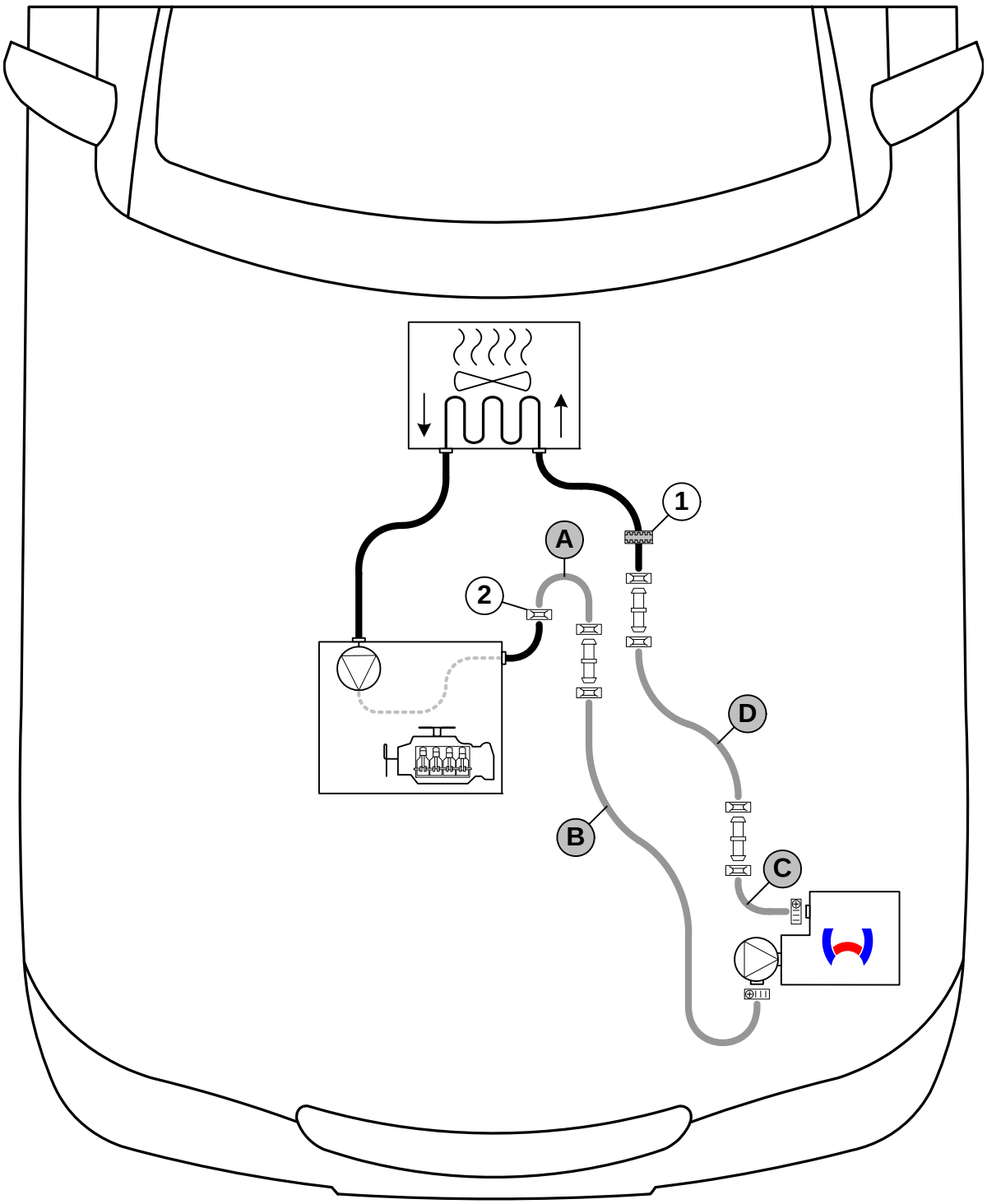
Aligning exhaust end section

1 Exhaust end section

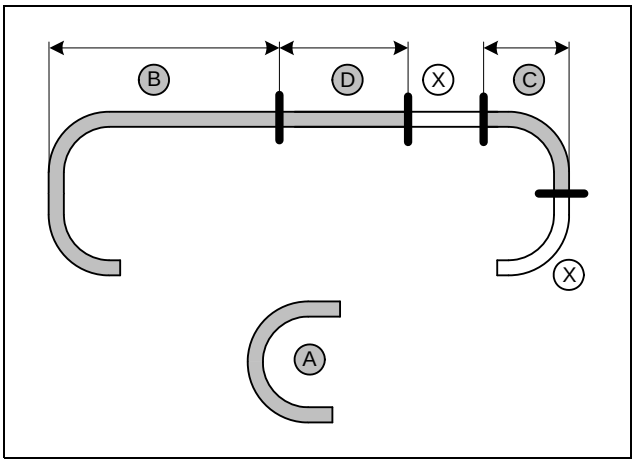
Preparing coolant without DPF

WARNING!
Any coolant running off should be collected using an appropriate container. Install hoses so that they are kink-free! Unless specified otherwise, always fasten using cable ties. Position clamps so that no other hose can be damaged! When installing the hoses, the heater must be filled with coolant!
The connection should be "inline" based on the following diagram:

Hose installation diagram



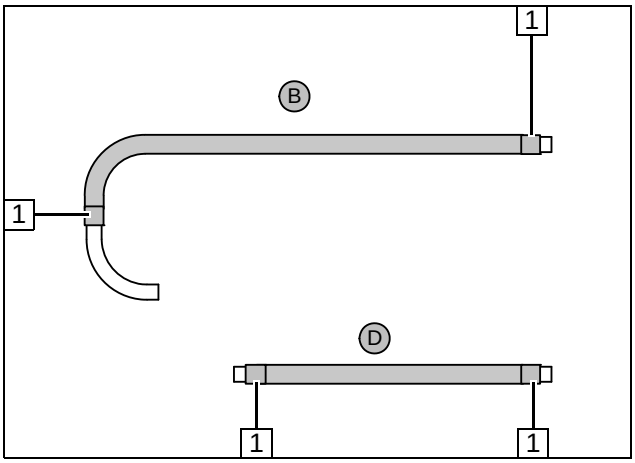
All spring clips = 27 mm dia.. **2** = Original vehicle spring clip .
All connecting pipes = dia. 20x20. All hose clamps = 20-27 mm dia.!
1 = Black (sw) rubber isolator .



Hose **A** = 180° moulded hose
Discard section **X**.

B = 620
C = 100
D = 580

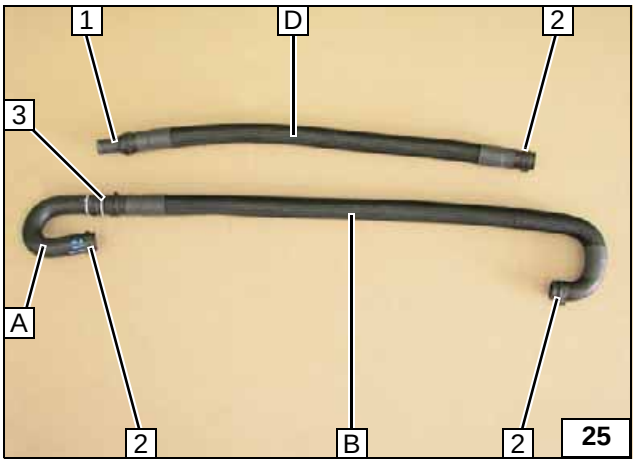
Cutting hoses to length



Push braided protection hoses onto hose **B** and **D** and cut to length.
Cut heat shrink plastic tubing to length.

1 50 mm long heat shrink plastic tubing [4x]

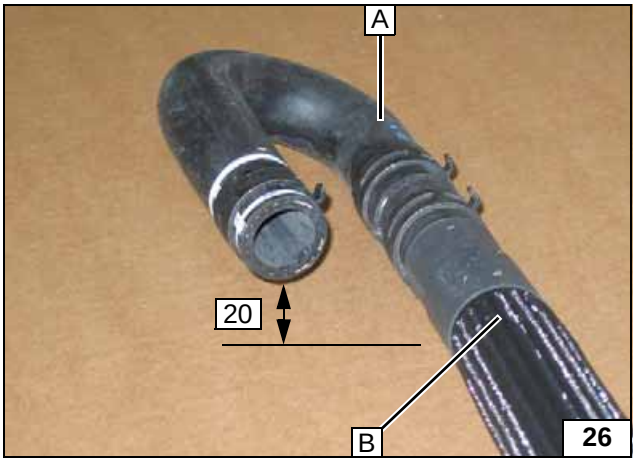
Preparing hoses



Ensure positioning of hose **A** and **B** as shown in following figure.

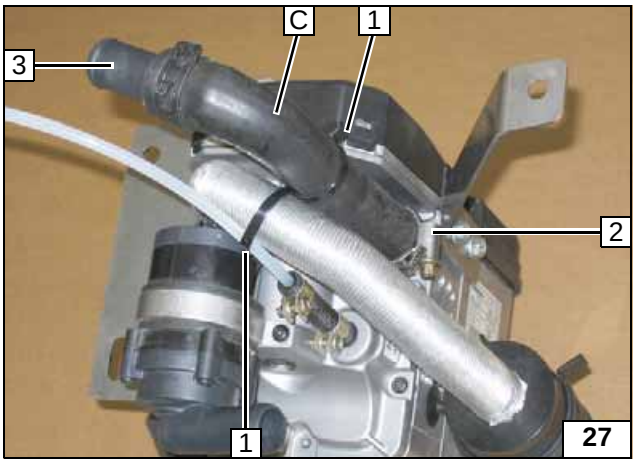
1 20x20 connecting pipe, 27 mm dia. spring clip
2 Slide on 27 mm dia. spring clip [3x]
3 20x20 mm connecting pipe, 27 mm dia. spring clip [2x]

Premounting hoses



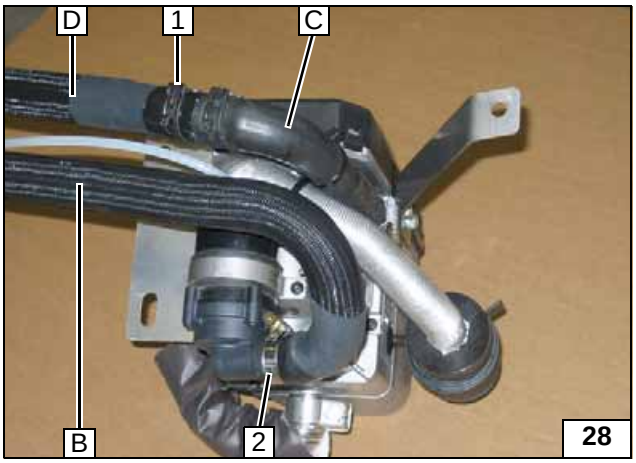
When installing hoses **A** and **B**, lift hose **A** approx. 20 mm off support.

Premounting hoses



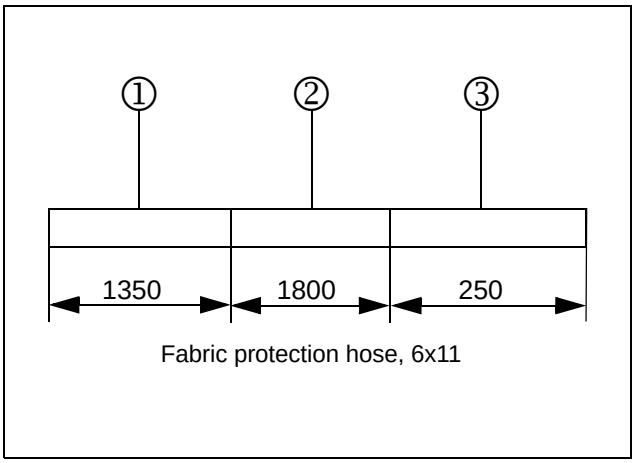
1 Cable tie [2x]
2 27 mm dia. hose clamp
3 20x20 connecting pipe, 27 mm dia. spring clip

Installing hose C



1 27 mm dia. spring clip
2 27 mm dia. hose clamp

Installing hoses



Fabric protection hose, 6x11

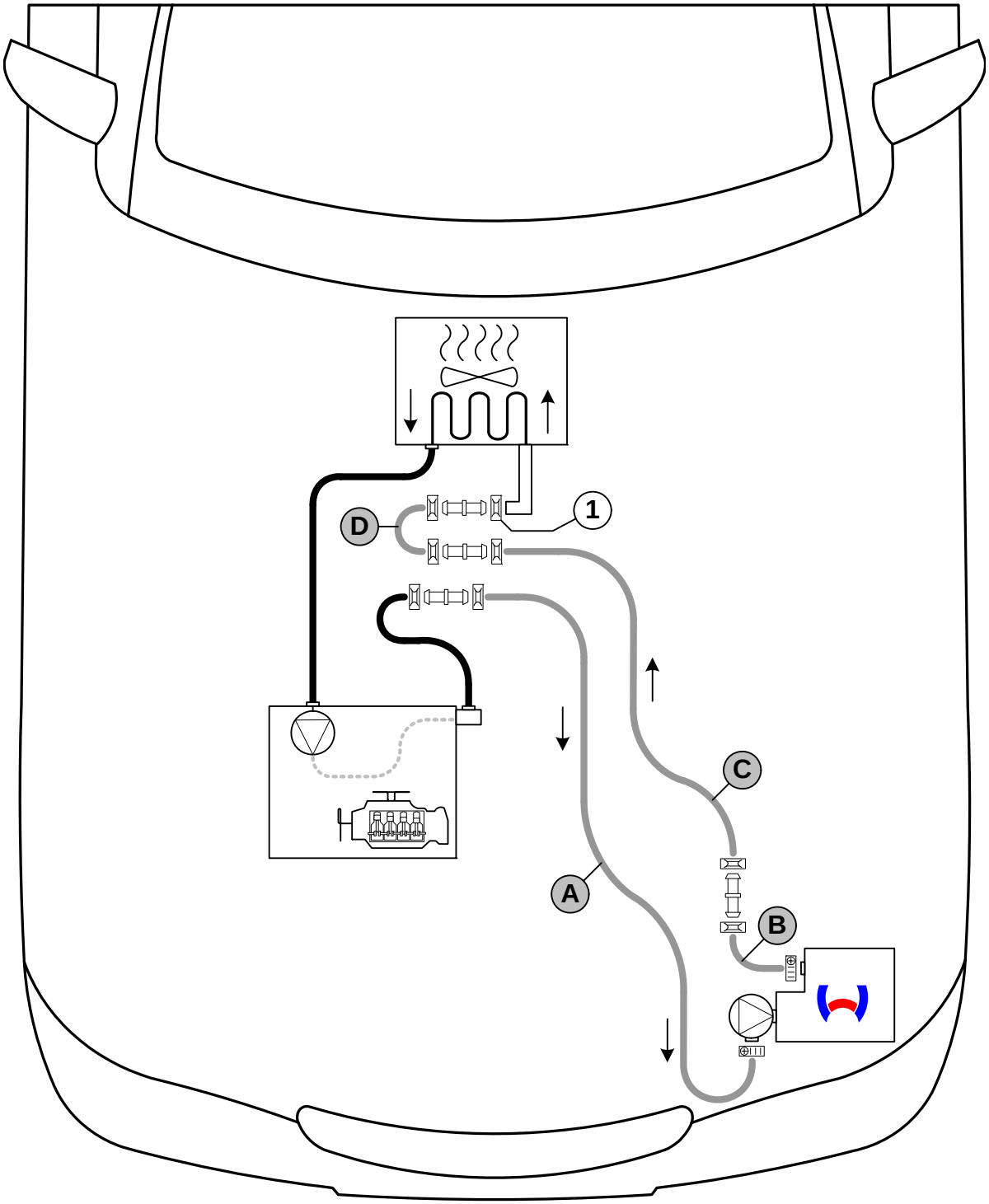
Push protective hose ② onto fuel line. Sections ① and ③ will be used later.

Cutting protective hose to length

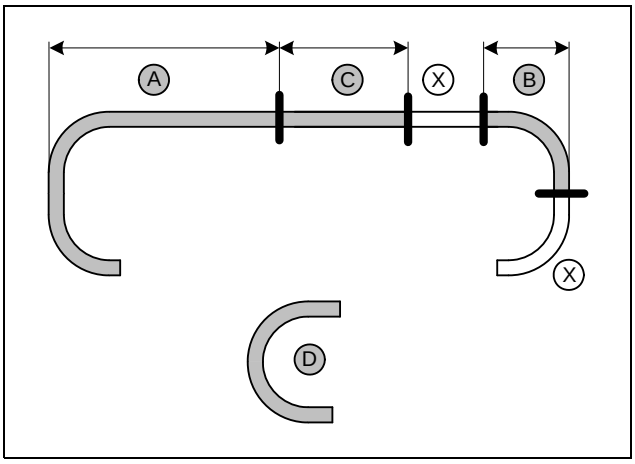
Prepare coolant circuit with DPF up to MY 2010

WARNING!
Any coolant running off should be collected using an appropriate container. Install hoses so that they are kink-free! Unless specified otherwise, always fasten using cable ties. Position clamps so that no other hose can be damaged! When installing the hoses, the heater must be filled with coolant!
The connection should be "inline" based on the following diagram:

Hose installation diagram



All spring clips = 27 mm dia.. **1** = Original vehicle spring clip .
All connecting pipes = dia. 20x20.
All hose clamps = 20-27 mm dia.



Diesel PD

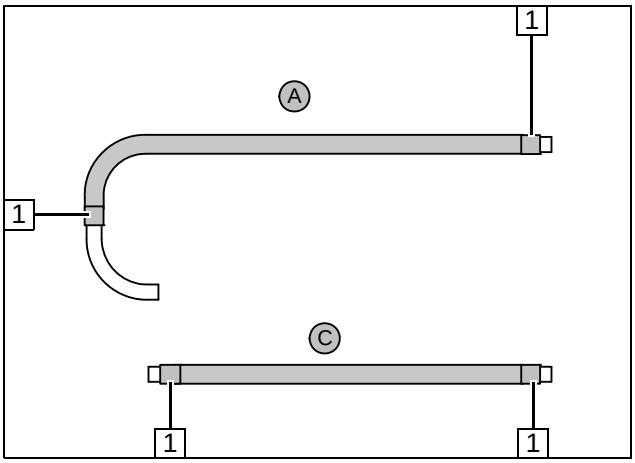
Hose **D** = 180° moulded hose
Discard section **X**.

A = 1000
B = 100
C = 880

Diesel CR

A = 920
B = 100
C = 910

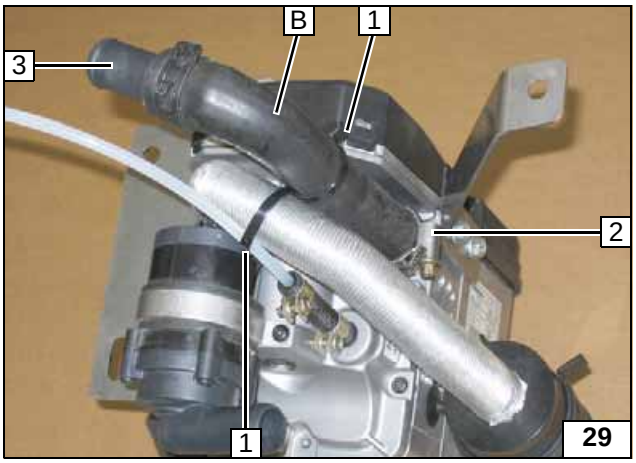
Cutting hoses to length



Push braided protection hoses onto hose **A** and **C** and cut to length.
Cut heat shrink plastic tubing to length.

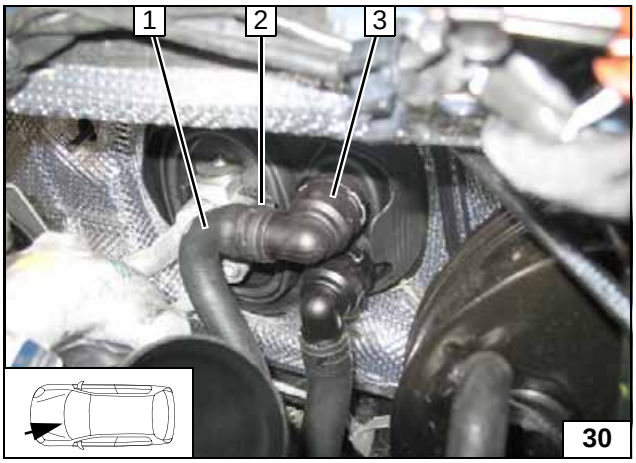
1 50 mm long heat shrink plastic tubing [4x]

Preparing hoses



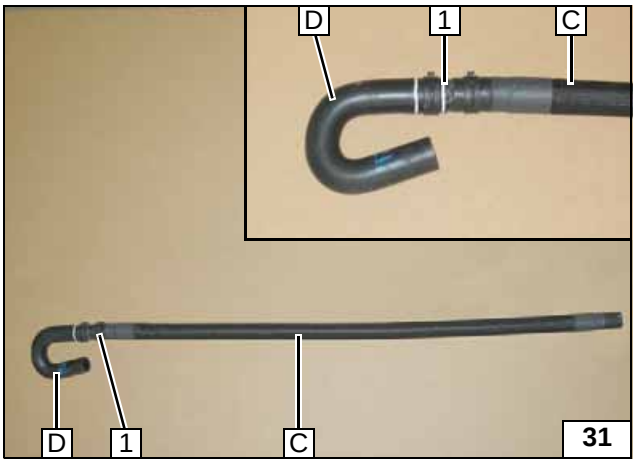
1 Cable tie [2x]
2 27 mm dia. hose clamp
3 20x20 connecting pipe, 27 mm dia. spring clip

Installing hose C



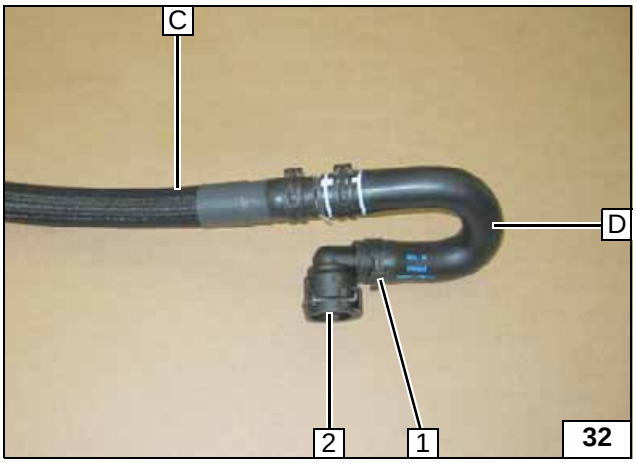
Remove hose on engine outlet **1** and spring clip **2** from coupling of heat exchanger inlet **3**.
Remove coupling of heat exchanger inlet **3**.

Removing coupling piece



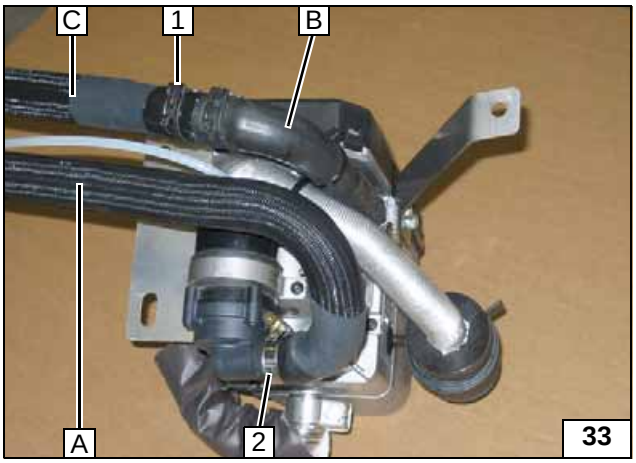
1 20x20 mm connecting pipe, 27 mm dia. spring clip [2x]

Preparing hose C and D



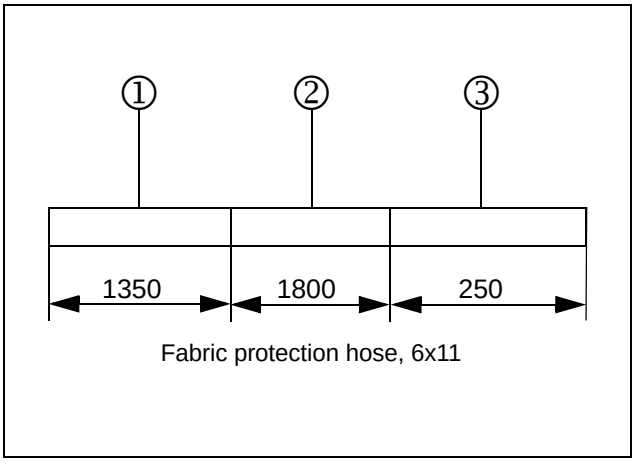
1 Original vehicle spring clip
2 Coupling of heat exchanger inlet

Premounting hose C and D



1 27 mm dia. spring clip
2 27 mm dia. hose clamp

Installing hoses



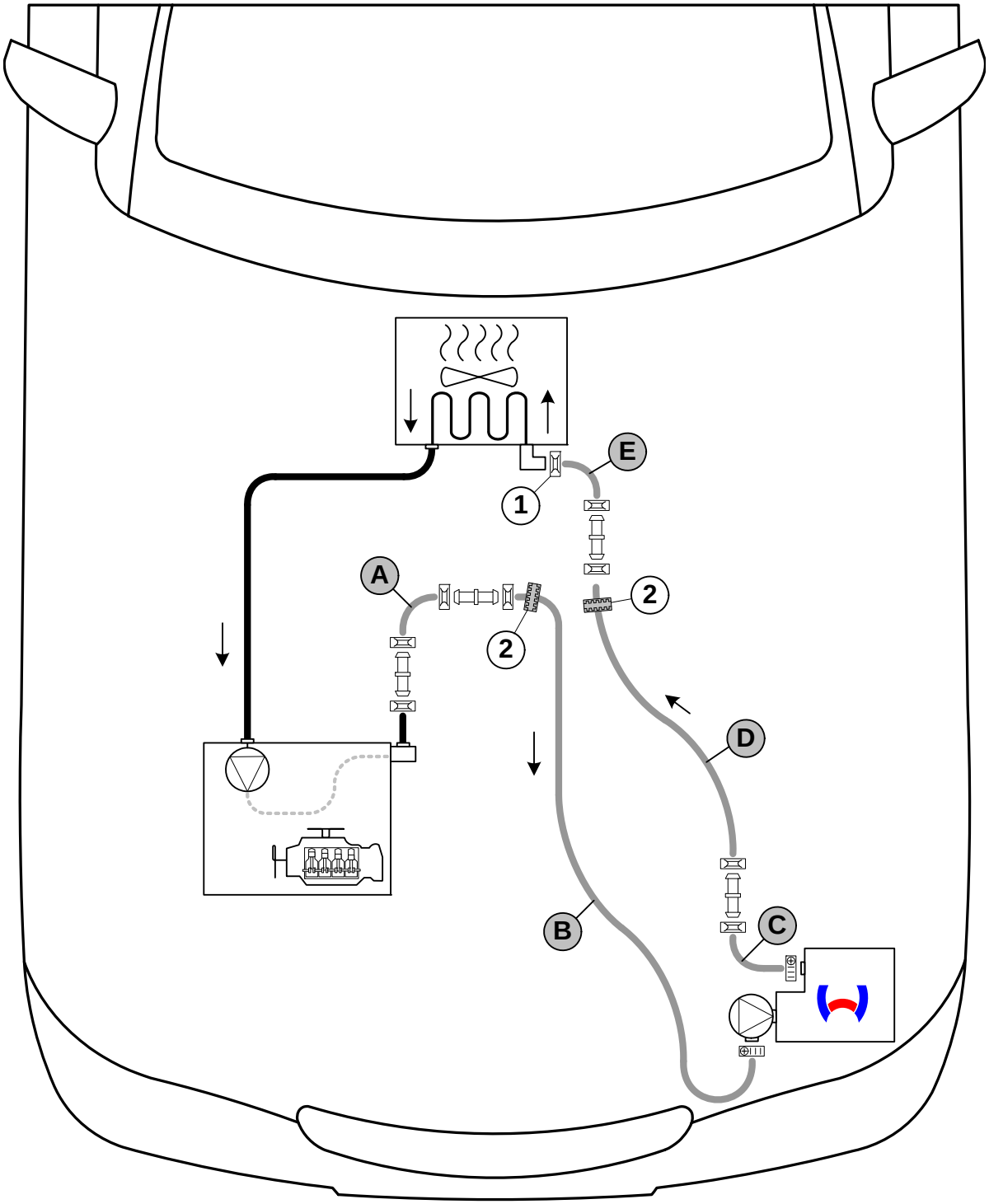
Push protective hose ② onto fuel line. Sections ① and ③ will be used later.

Cutting protective hose to length

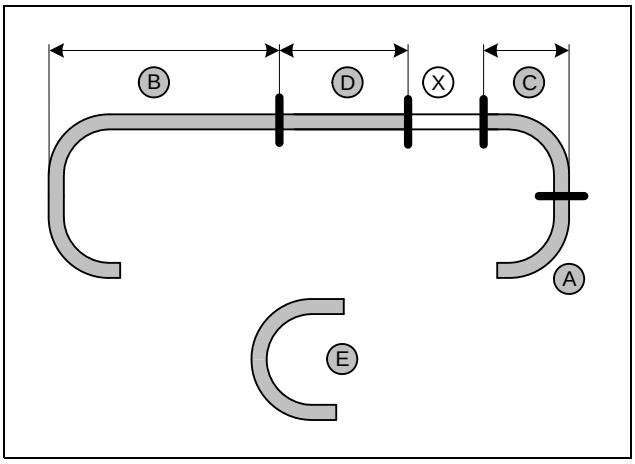
Prepare coolant circuit with DPF from MY 2011

WARNING!
Any coolant running off should be collected using an appropriate container. Install hoses so that they are kink-free! Unless specified otherwise, always fasten using cable ties. Position clamps so that no other hose can be damaged! When installing the hoses, the heater must be filled with coolant!
The connection should be "inline" based on the following diagram:

Hose installation diagram



All spring clips = 27 mm dia.. **1** = Original vehicle spring clip .
All connecting pipes = dia. 20x20. All hose clamps = 20-27 mm dia.!
1 = Black (sw) rubber isolator [2x]!

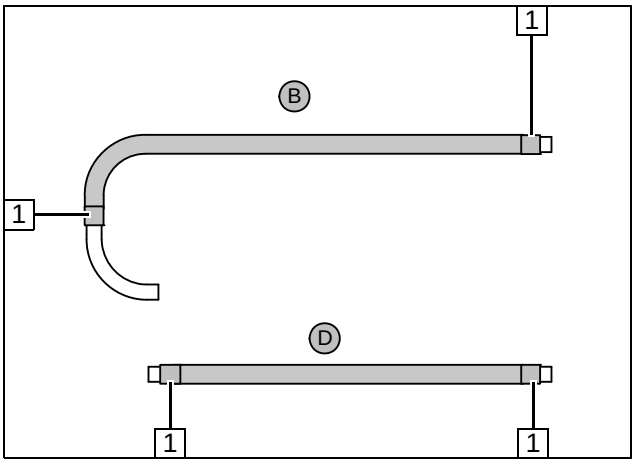


Diesel CR

Hose **E** = 20 mm dia. moulded hose 180°
Discard section **X**.

B = 920
C = 100
D = 880

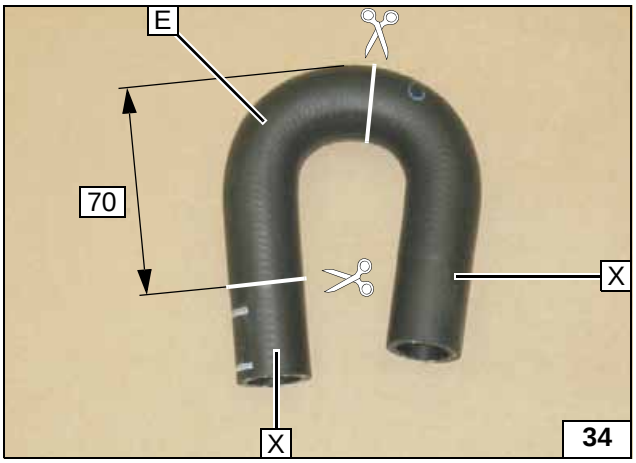
Cutting hoses to length



Push braided protection hoses onto hose **B** and **D** and cut to length.
Cut heat shrink plastic tubing to length.

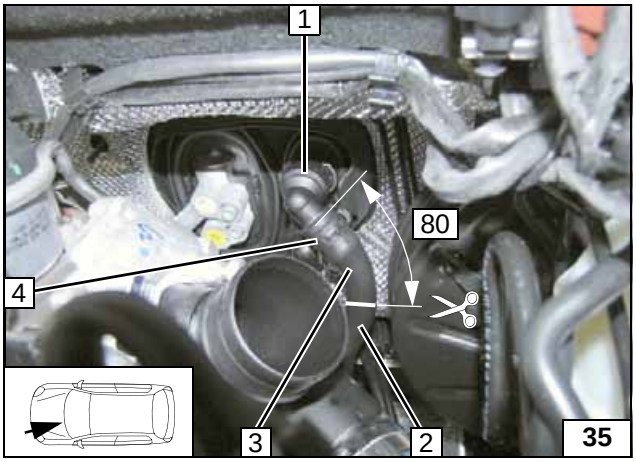
1 50 mm long heat shrink plastic tubing [4x]

Preparing hoses



Discard sections **X**.

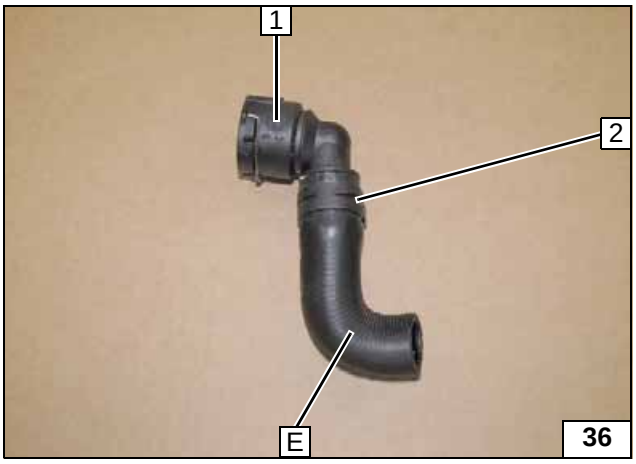
Prepare hose E



Cut off hose on engine outlet/heat exchanger inlet at marking.

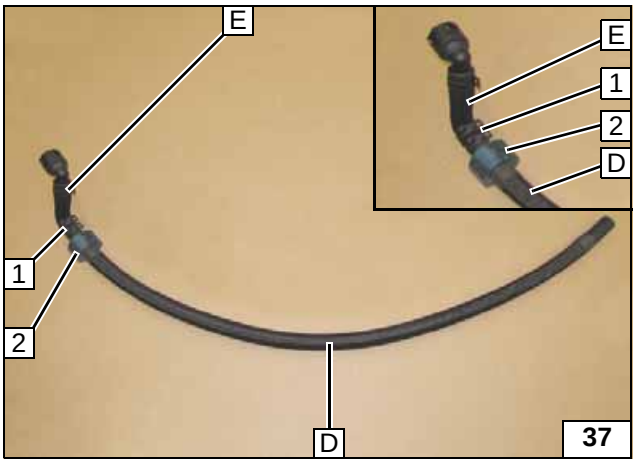
1 Remove coupling from heat exchanger inlet.
2 Engine outlet hose section
3 Remove hose section and discard
4 Original vehicle spring clip

Removing coupling piece



1 Coupling of heat exchanger inlet
2 Original vehicle spring clip

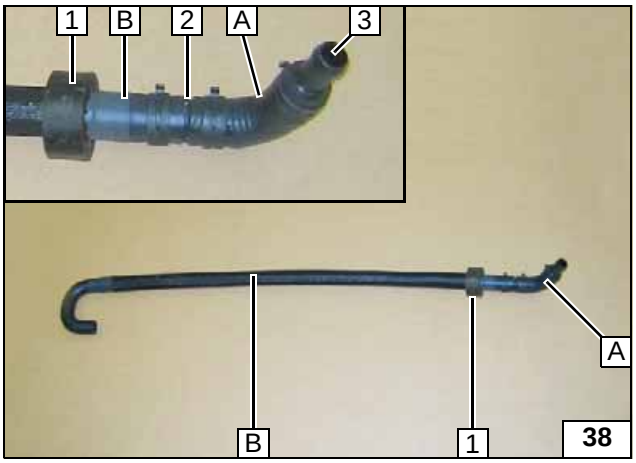
Pre-mount hose E



Before installing, push black (sw) rubber isolator **2** onto hose **D**.

1 20x20 mm connecting pipe, 27 mm dia. spring clip [2x]

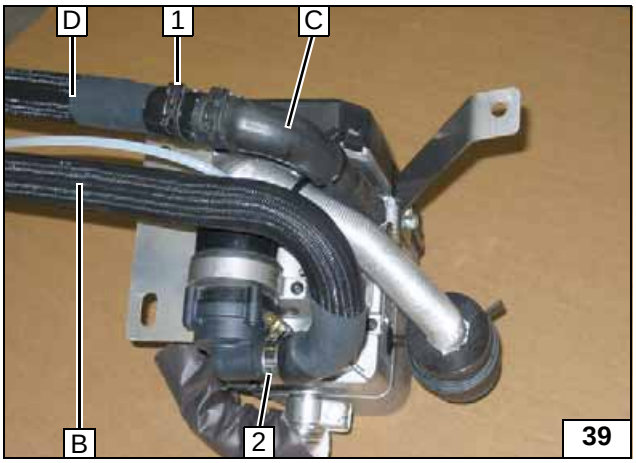
Pre-mount hose D and E



Before installing, push black (sw) rubber isolator **1** onto hose **B**.

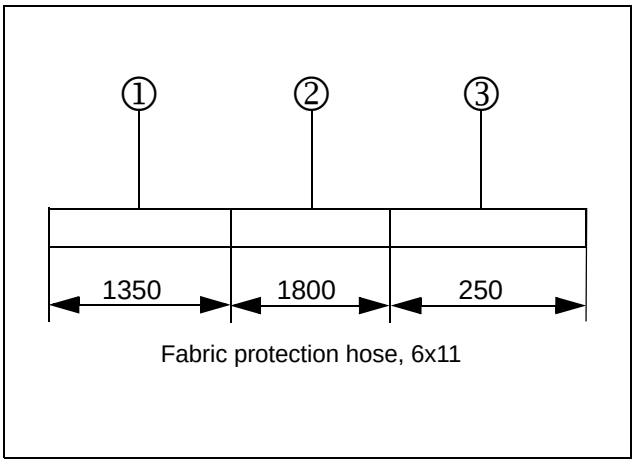
2 20x20 mm connecting pipe, 27 mm dia. spring clip [2x]
3 20x20 connecting pipe, 27 mm dia. spring clip

Preinstalling hoses A and B



1 27 mm dia. spring clip
2 27 mm dia. hose clamp

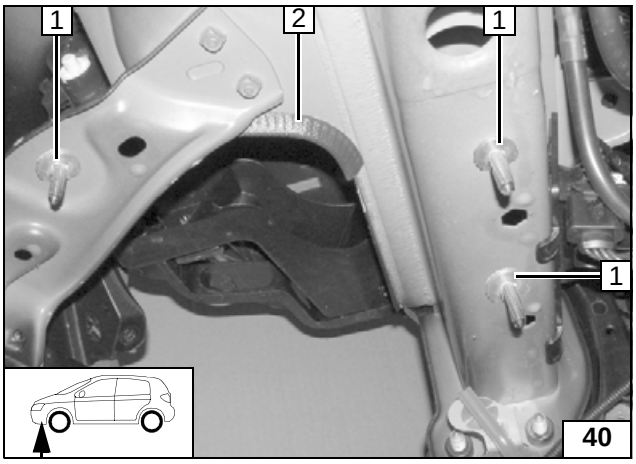
Installing hoses



Fabric protection hose, 6x11

Push protective hose ② onto fuel line. Sections ① and ③ will be used later.

Cutting protective hose to length

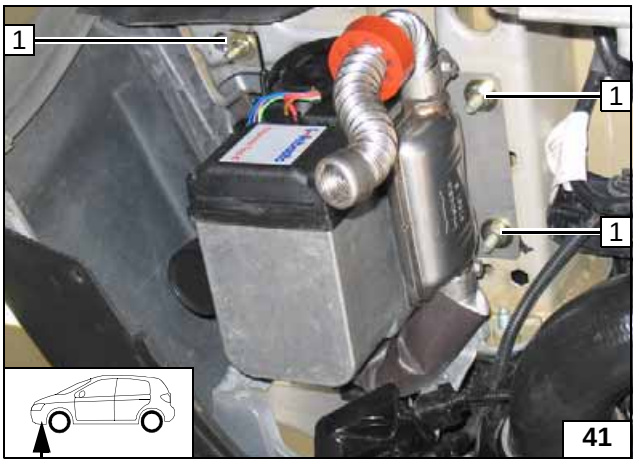


Preparing installation location

Secure large diameter washer against falling with putty etc.

1 Large diameter washer on original vehicle stud bolt [3x]
2 100 mm edge protection

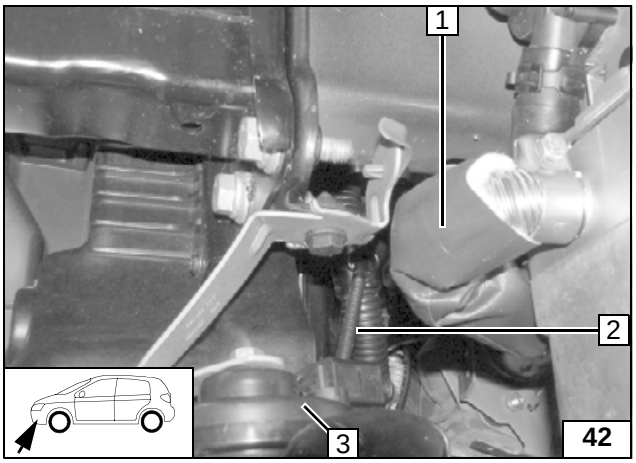
Preparing installation location



Installing heater

1 Large diameter washer, flanged nut M8 [3x]

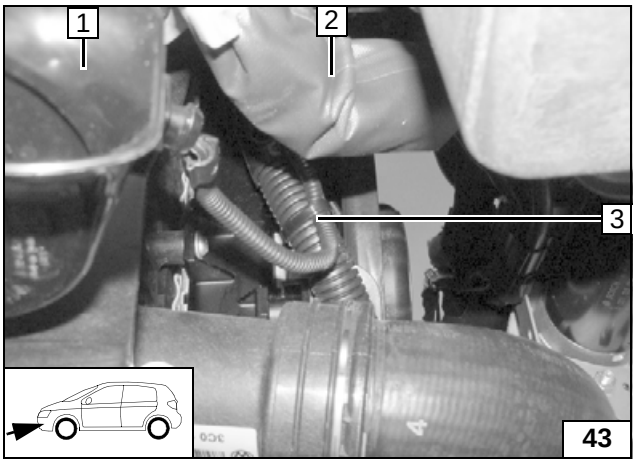
Installing heater



Ensure freedom of movement of exhaust system relative to adjacent components and lines.

1 Exhaust pipe with insulation
2 Original vehicle wiring harnesses
3 Horn

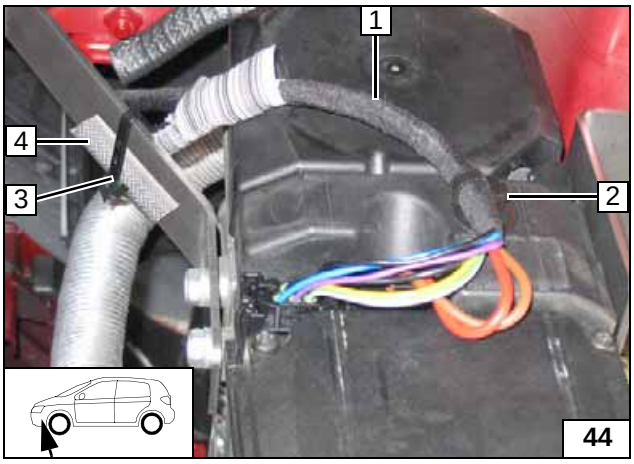
Aligning exhaust system



Ensure freedom of movement of exhaust system relative to adjacent components and lines.

1 Horn
2 Exhaust pipe with insulation
3 Original vehicle wiring harnesses (secured with cable tie)

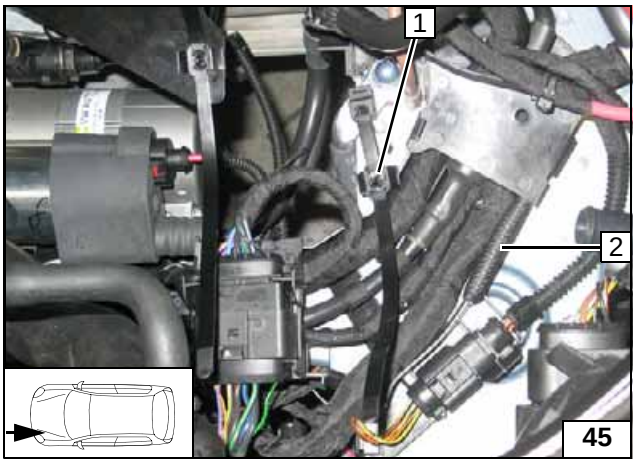
Aligning exhaust system



Punch through perforation of heater lid at position **2**. Mount clip cable tie **2** and fasten wiring harness of heater **1**.

3 Cable tie
4 50 mm edge protection

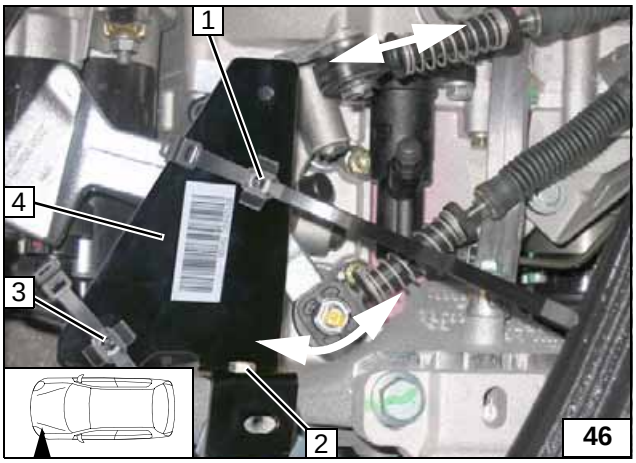
Connecting wiring harness



6 mm hole on position **1**. When drilling, watch lines located behind. Install clip-type cable ties **1**. On vehicles with Diesel PD, lock of clip-type cable tie **1** faces in driving direction!

2 50 mm edge protection

Installing clip-type cable tie

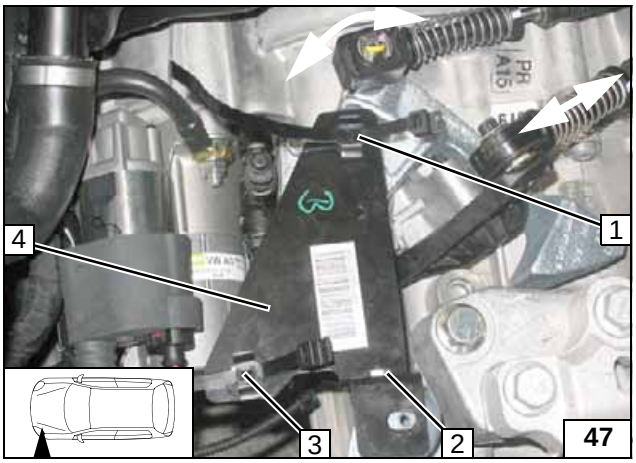


5-speed manual transmission

Insert clip-type cable tie **1, 3** according to figure. Locks of clip-type cable ties **1, 3** face toward front.

2 Original vehicle hole**,** M6x20 bolt, flanged nut, original vehicle hole
4 Hose bracket

Install hose bracket



6-speed manual transmission

Insert clip-type cable tie **1, 3** according to figure. Locks of clip-type cable ties **1, 3** face toward front.

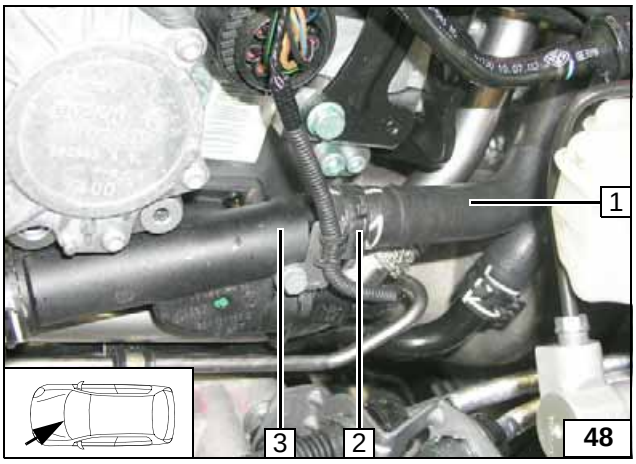
2 Original vehicle hole**,** M6x20 bolt, flanged nut, original vehicle hole
4 Hose bracket

Install hose bracket

Preparing coolant circuit without DPF

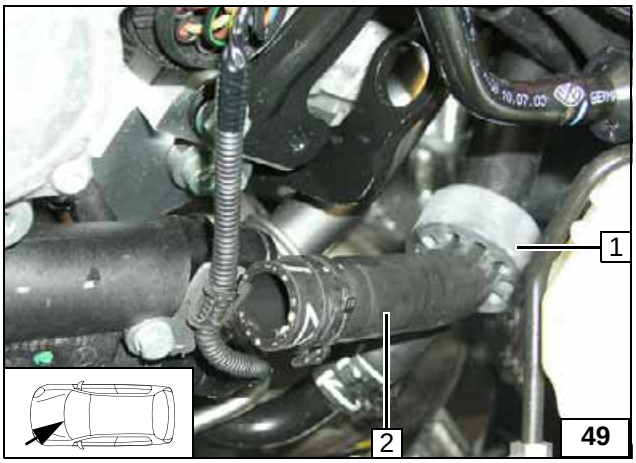
Pull off hose on engine **1** to heat exchanger inlet on connection piece of engine outlet **3**. Spring clip **2** will be reused.

Cutting point



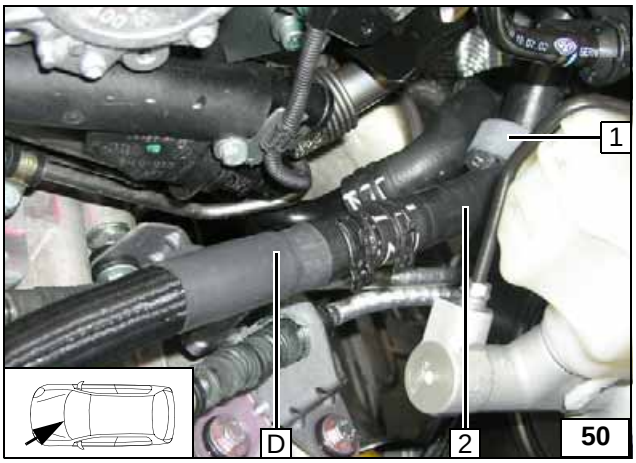
1 Black (sw) rubber isolator
2 Hose on heat exchanger inlet

Push on rubber isolator



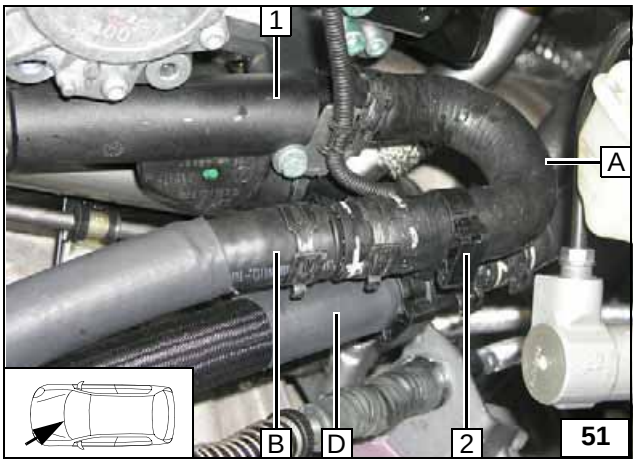
1 Align black (sw) rubber isolator
2 Hose on heat exchanger inlet

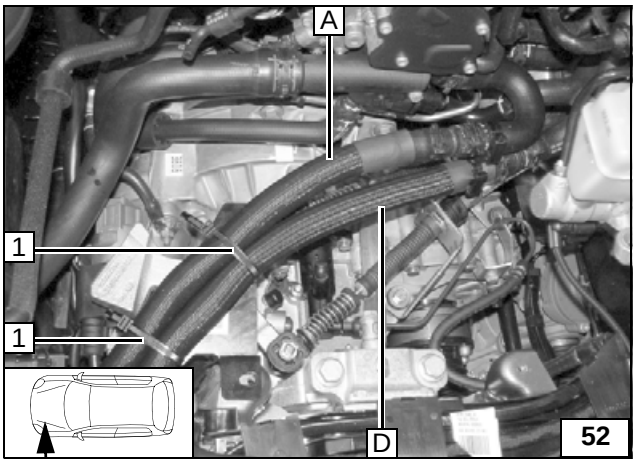
Connecting heat exchanger inlet



1 Engine-outlet connecting piece
2 Double clip 27x27 on hose **A** and **D**

Connecting engine outlet

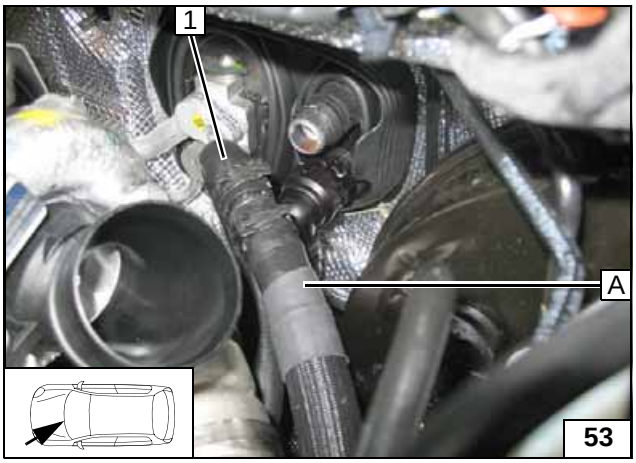




Ensure freedom of movement of shifting actuation. Bend bracket somewhat upward if necessary.

1 Close clip-type cable tie [2x]

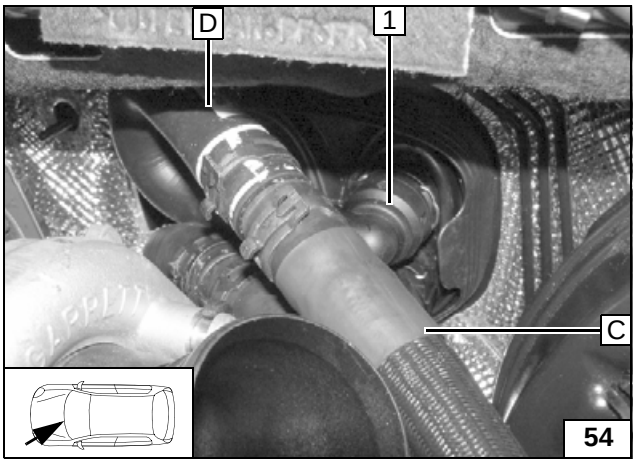
Routing in engine compartment



Coolant circuit PD with DPF

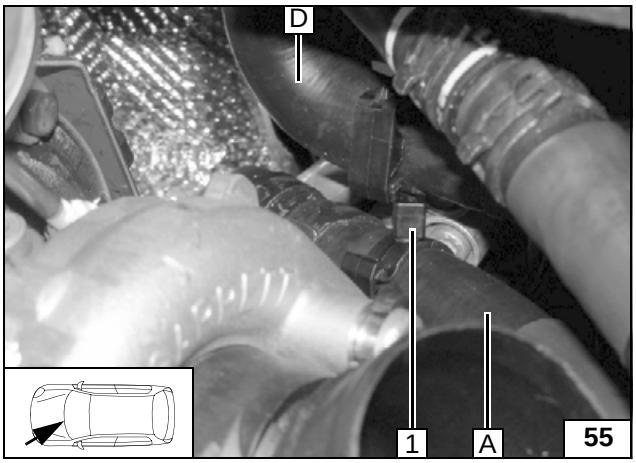
1 Hose of engine outlet

Connecting engine outlet



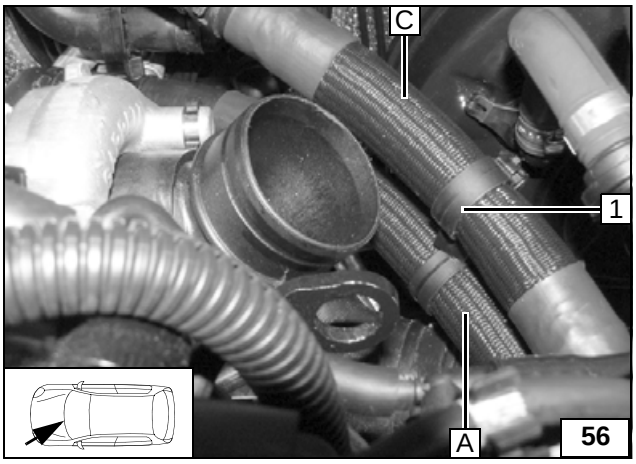
1 Coupling of heat exchanger inlet

Connecting heat exchanger inlet



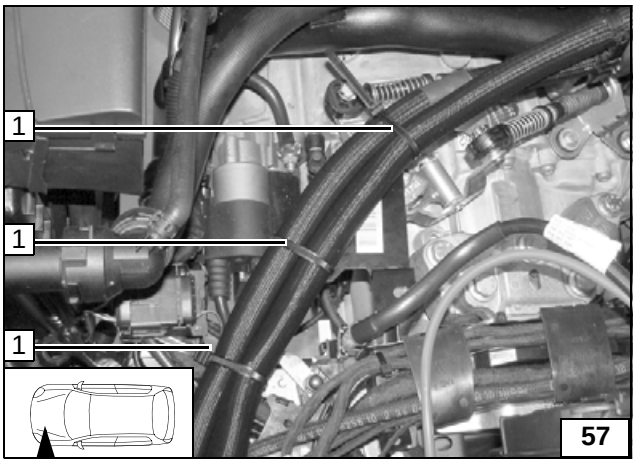
1 Hose clip 27x27 on hose **A** and **D**

Mounting hose bracket



1 Hose bracket 27x27 on hose **A** and **C**

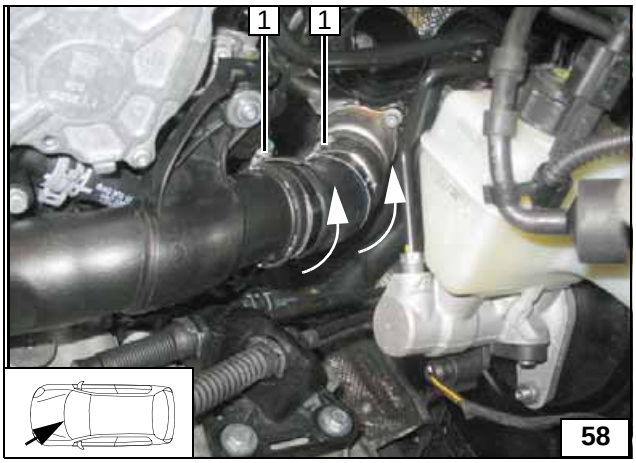
Mounting hose bracket



Ensure freedom of movement of shifting actuation. Bend bracket somewhat upward if necessary.

1 Close clip-type cable tie [3x].

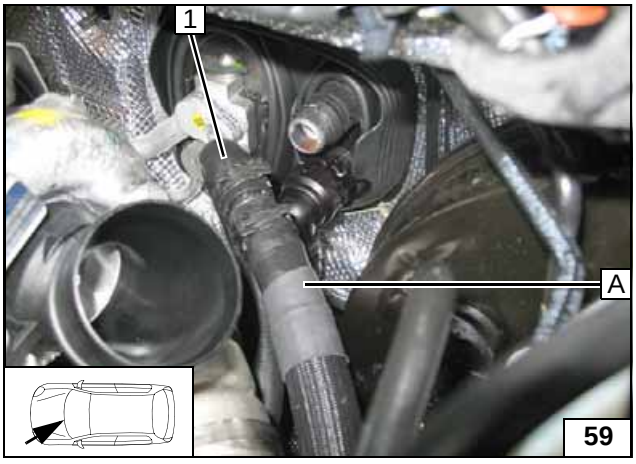
Routing in engine compartment



CR coolant circuit with DPF up to MY 2010

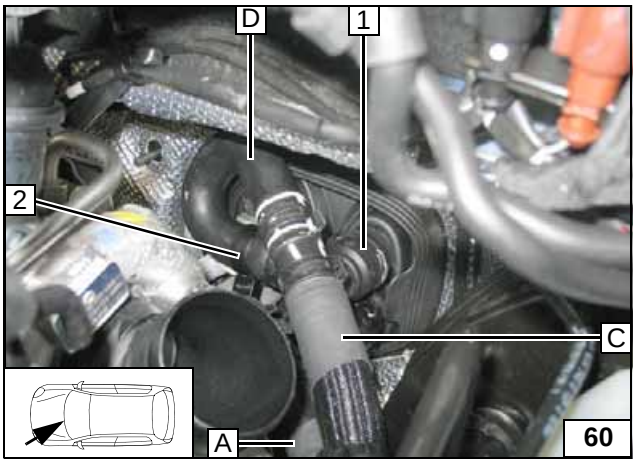
Turn clamp locks **1** [2x] as shown in the figure.

Preparing routing



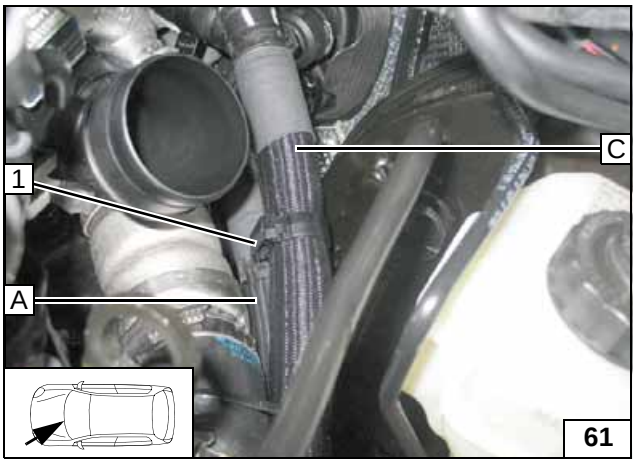
1 Hose of engine outlet

Connecting engine outlet



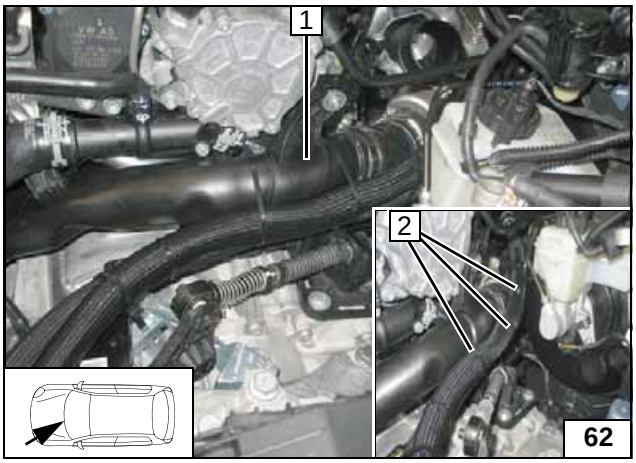
1 Coupling of heat exchanger inlet
2 Hose clip 27x27 on hose **A** and **D**

Connecting heat exchanger inlet



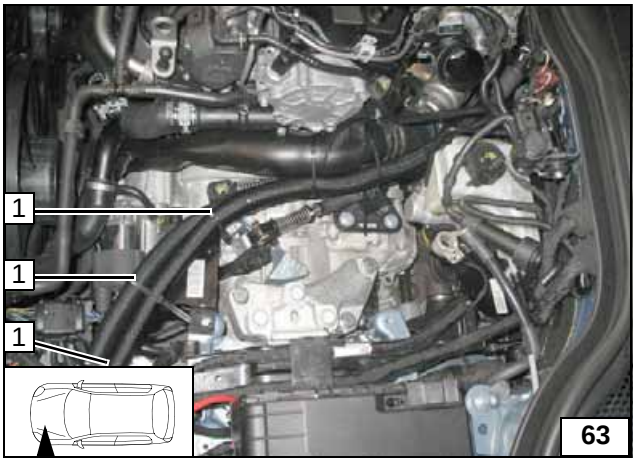
1 Hose bracket 27x27 on hose **A** and **C**

Routing in engine compartment



Secure coolant hoses on intake pipe **1** with cable tie **2**.

Routing in engine compartment



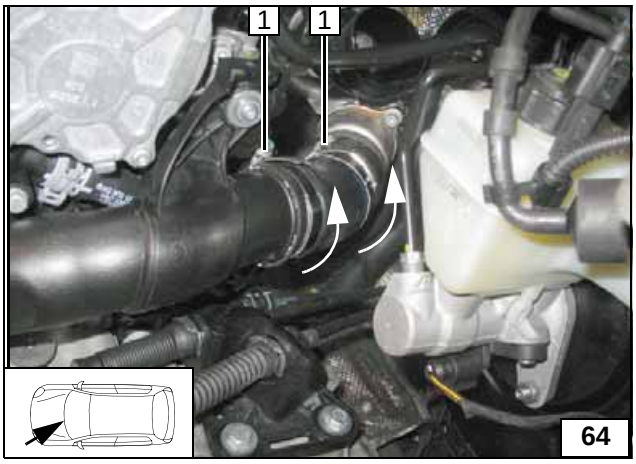
Ensure freedom of movement of shifting actuation. Bend bracket somewhat upward if necessary.

1 Close clip-type cable tie [3x].

Routing in engine compartment

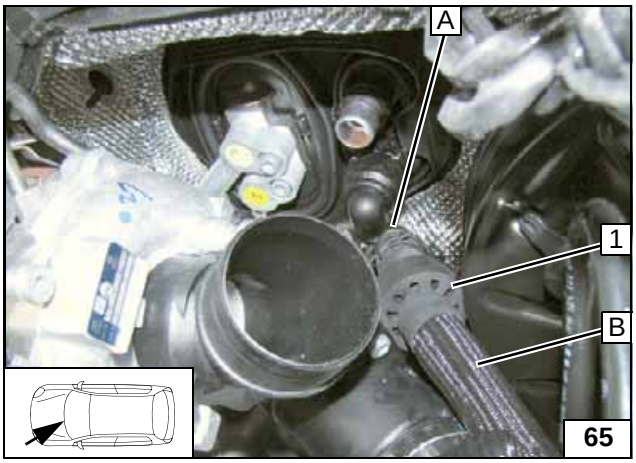
CR coolant circuit with DPF from MY 2011

Preparing routing



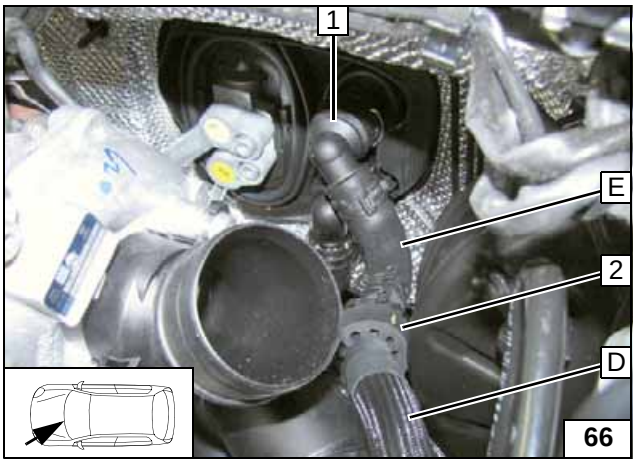
Turn clamp locks **1** [2x] as shown in the figure.

Connecting engine outlet



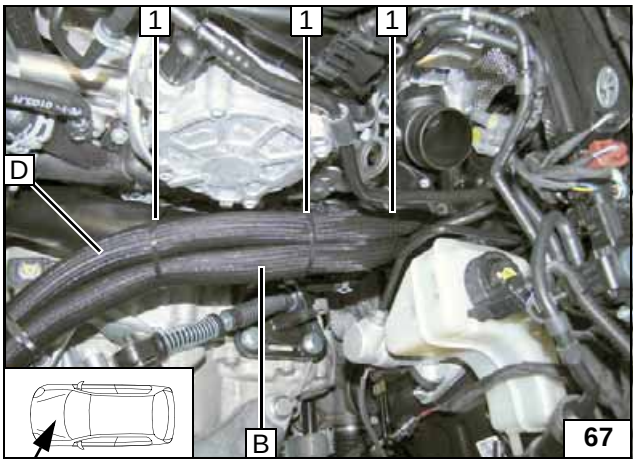
1 Align black [sw] rubber isolator downward

Connecting heat exchanger inlet

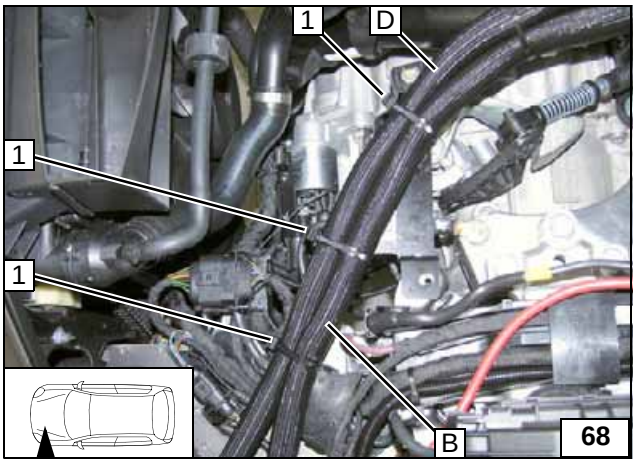


1 Coupling of heat exchanger inlet
2 Position black (sw) rubber isolator

Routing in engine compartment



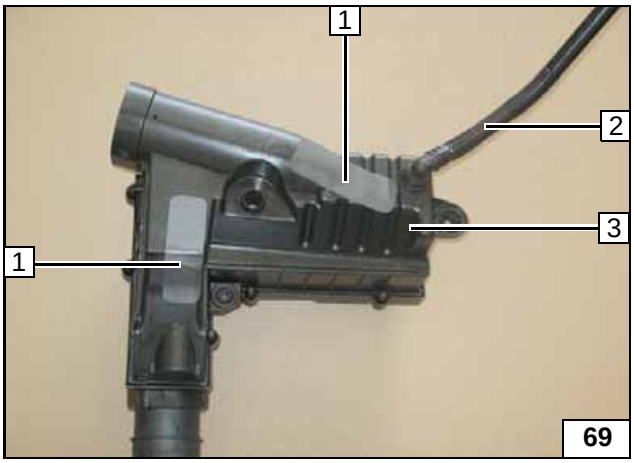
Secure hoses on intake pipe with cable tie **1**.



Ensure freedom of movement of shifting actuation. Bend bracket somewhat upward if necessary.

1 Close clip-type cable tie [3x].

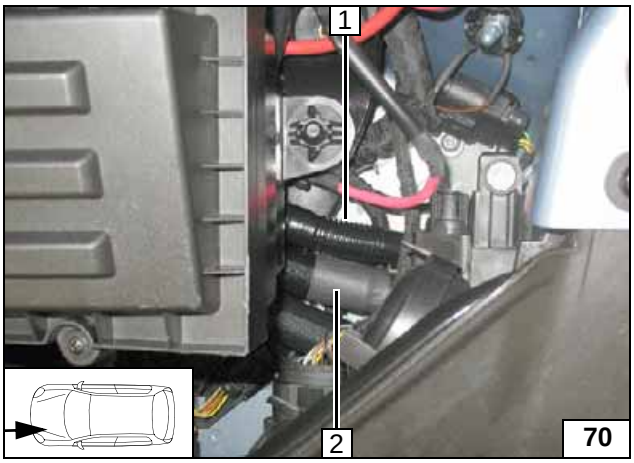
Routing in engine compartment



Air filter box

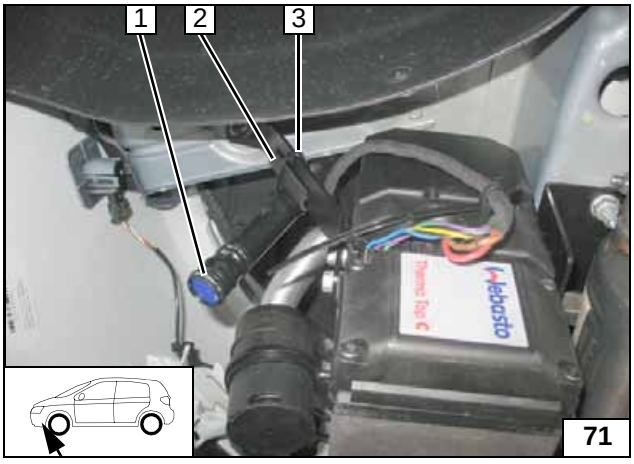
Position of drain pipe **2** may vary!
Glue rub protection **1** [2x] onto air cleaner housing **3** as shown.

Preparing air cleaner housing



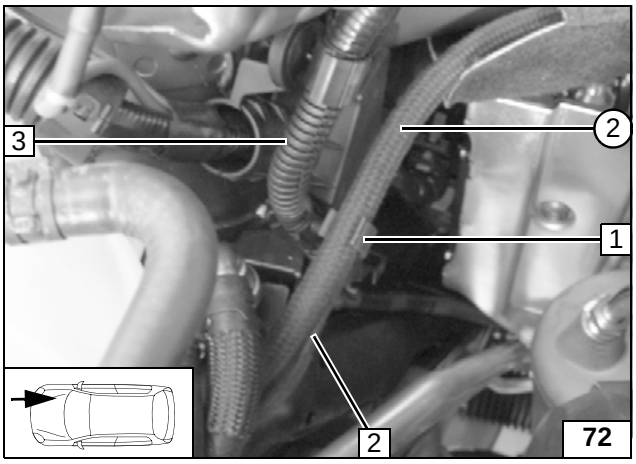
If drain pipe **1** present as shown, then route parallel to water hose **2**.

Installing air cleaner housing



1 Drain pipe
2 50 mm edge protection section
3 Cable tie

Installing air cleaner housing

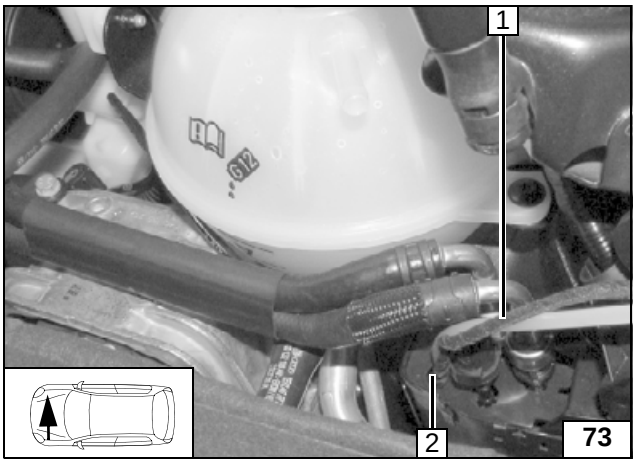


Fuel Connection

Fasten fuel line and wiring harness of metering pump **2** on original vehicle wiring harness **3** with 15x9 mm double clip **1**

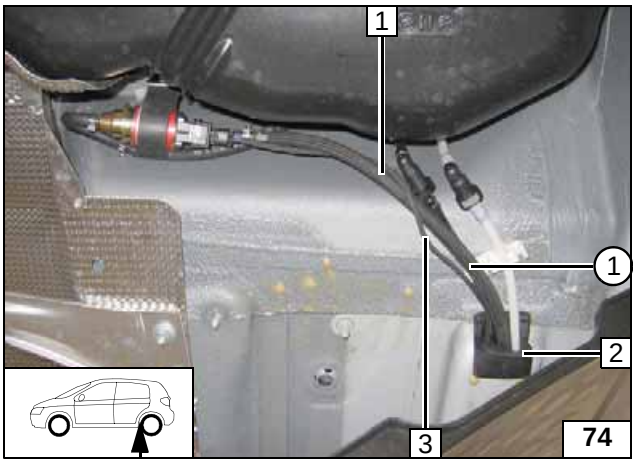
2 Fuel line in protective hose ② and wiring harness of metering pump

Installing lines



Guide fuel line and wiring harness of metering pump **1** into original vehicle line duct **2** and route to underbody.

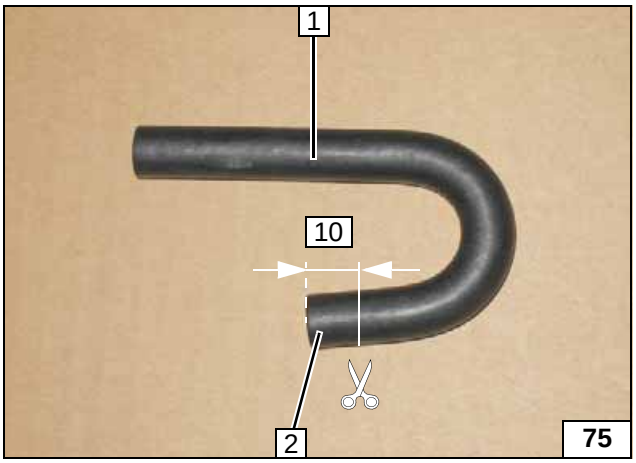
Installing lines



Route fuel line **1** and wiring harness of metering pump **3** along original vehicle fuel lines to fuel tank.

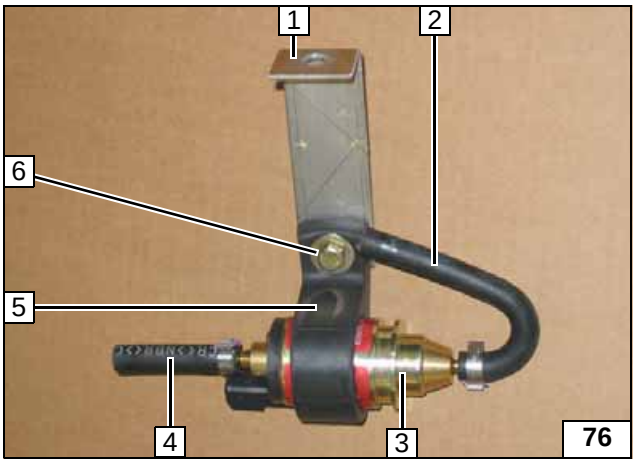
1 Fuel line in protective hose ①
2 Line duct

Installing lines



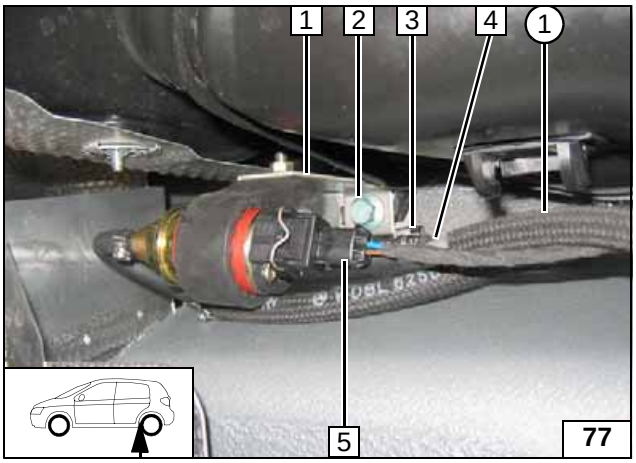
1 Moulded hose 180°
2 Discard section

Cutting moulded hose to length



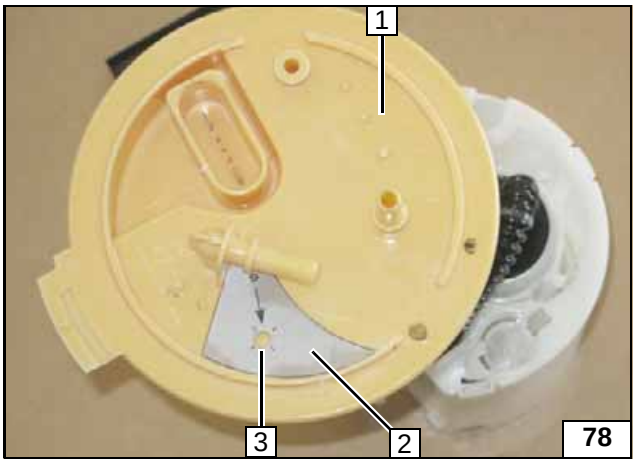
1 Bracket
2 180° moulded hose, 10 mm dia. Caillau clamp
3 Metering pump
4 Hose section, 10 mm dia. Caillau clamp
5 Mounting of metering pump
6 M6x25 bolt, large diameter washer, flanged nut

Premounting metering pump



1 Bracket of metering pump
2 Original vehicle bolt
3 10 mm dia. Caillau clamp
4 Fuel line in protective hose ①
5 Wiring harness of metering pump, connector mounted

Installing metering pump



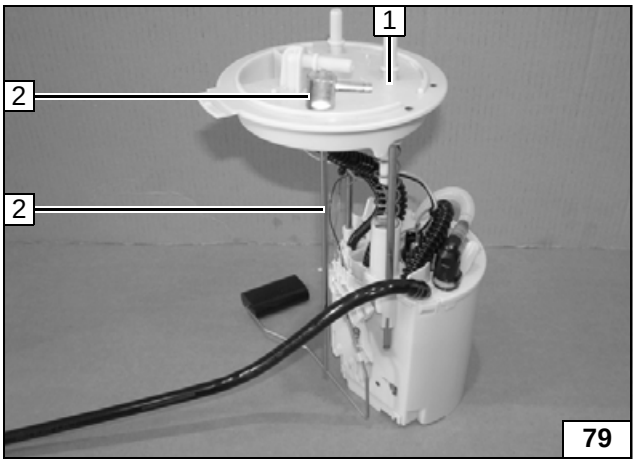
Fuel removal is equipment-dependent and is distinguished according to the respective fuel-tank sending unit!

Version 1:

Remove fuel-tank sending unit **1** in accordance with manufacturer's specifications. Cut out template **2** and position as shown in the figure.

3 Copy hole pattern, 6 mm dia. hole

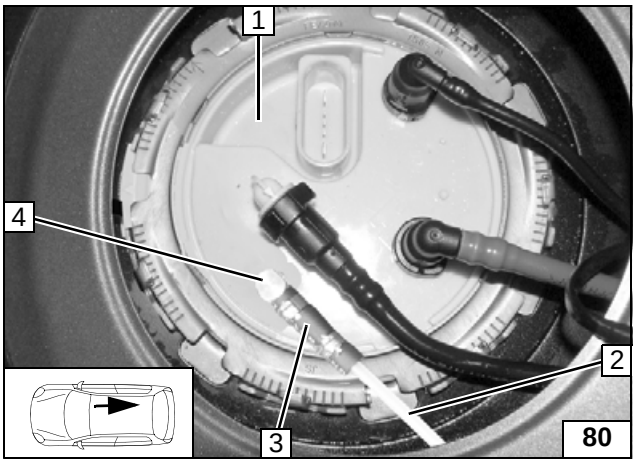
Removing fuel



Cut fuel standpipe **2** to length according to template and install.

1 Fuel-tank sending unit

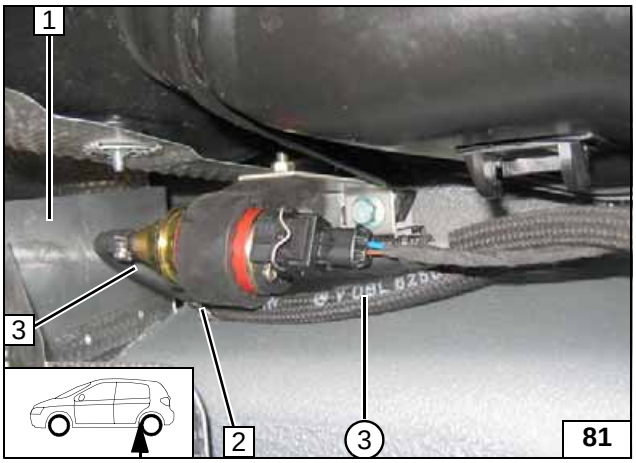
Installing fuel standpipe



Install fuel-tank sending unit **1** in accordance with manufacturer's instructions.

2 Fuel line
3 Hose section, 10 mm dia. Caillau clamp [2x]
4 Fuel standpipe

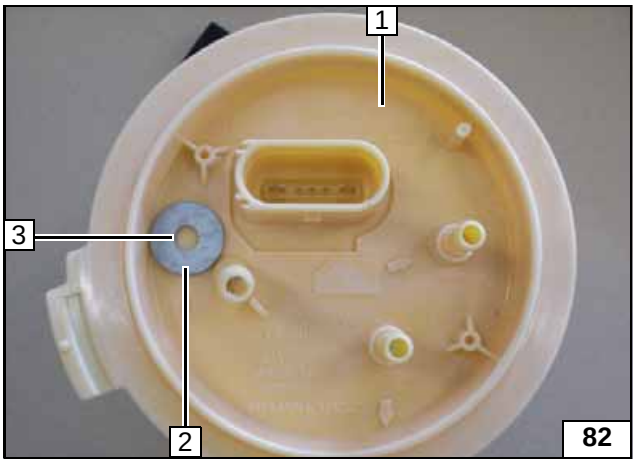
Connect the fuel line



Ensure sufficient spacing between guard plate **1** and 180° moulded hose **3**.

2 10 mm dia. Caillau clamp
3 Fuel line in protective hose ③

Connecting metering pump

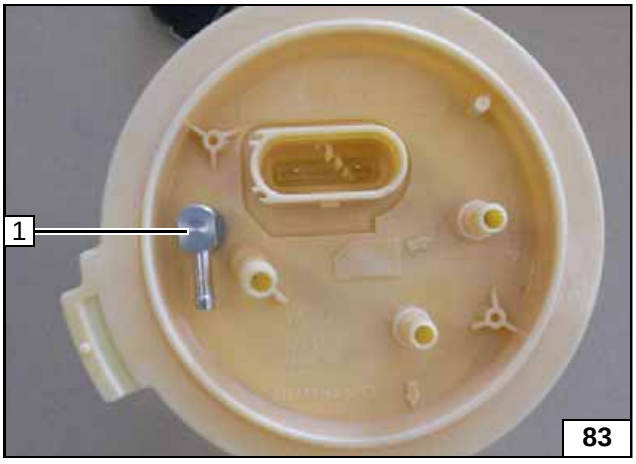


Version 2:

Remove fuel-tank sending unit **1** in accordance with manufacturer's specifications. Position 21.5 mm dia. d_a large diameter washer **2** as shown in the figure.

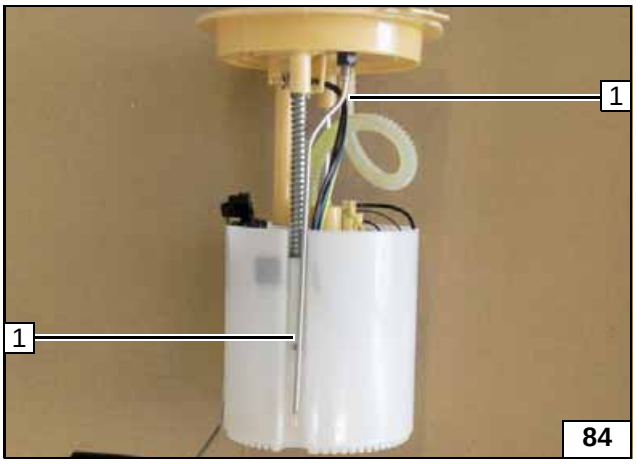
3 Copy hole pattern, 6 mm dia. hole

Removing fuel



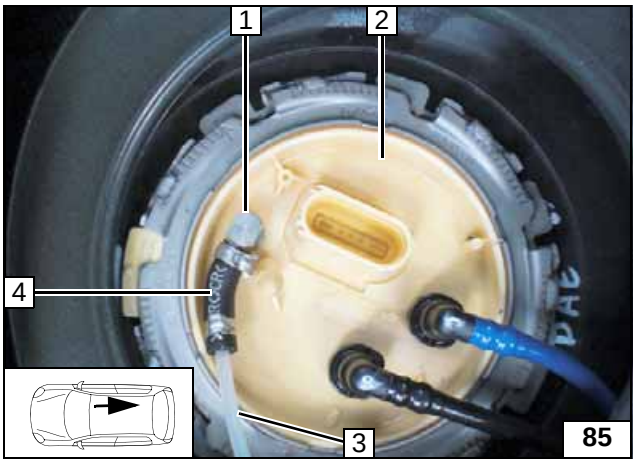
Shape fuel standpipe **2** according to template, cut to length and install.

Installing fuel standpipe



1 Fuel standpipe

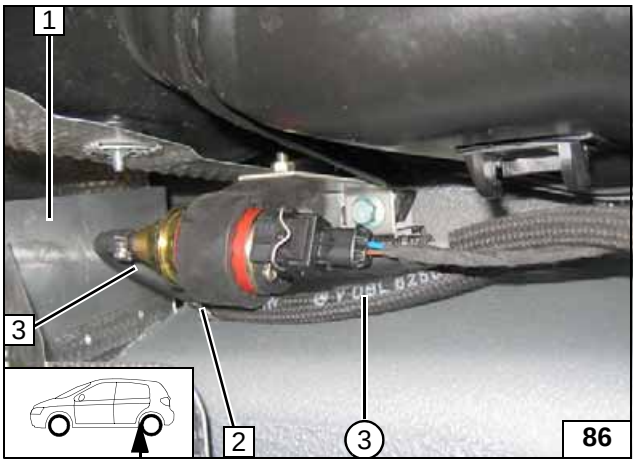
Installing fuel stand-pipe



Install fuel-tank sending unit **2** in accordance with manufacturer's instructions.

1 Fuel standpipe
3 Fuel line
4 Hose section, 10 mm dia. Caillau clamp [2x]

Connect the fuel line



Ensure sufficient spacing between guard plate **1** and 180° moulded hose **3**.

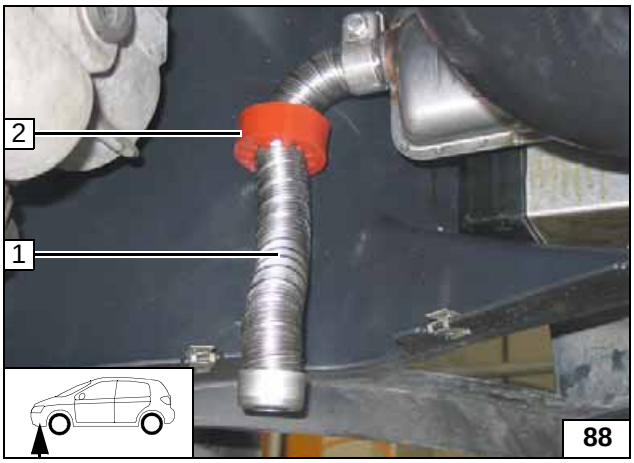
2 10 mm dia. Caillau clamp
3 Fuel line in protective hose ③

Connect-ing meter-ing pump

Exhaust end section

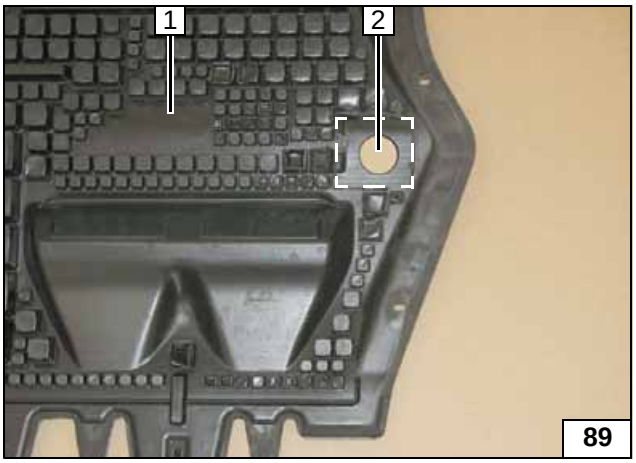
1 Exhaust end section

Shaping exhaust end section



Align exhaust end section **1** and rubber isolator **2** as shown in the figure.

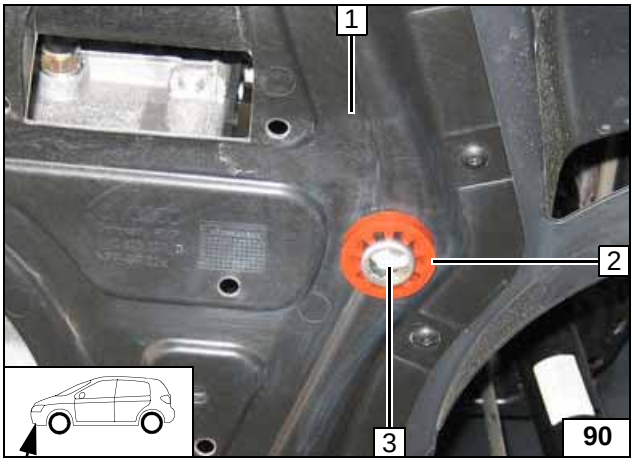
Installing wheel well trim



Remove insulation in the area marked, if available.

1 Underride protection
2 42 mm dia. hole

Hole in underride protection



Align exhaust end section **3** flush on red rubber isolator **2**.

1 Underride protection

Inserting rubber isolator

Final Work

WARNING!
Reassemble the disassembled components in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Insulate and tie back all loose lines.
Only use manufacturer-approved coolant. Spray the 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.**
- **Set digital timer, teach telestart transmitter**
- **Make settings on A/C control panel according to the "Operating Instructions for End Customer".**
- **Place the "Switch off parking heater before refuelling" signboard in the area of the filling connection pieces**
- **See installation instructions for initial start-up and function test**

Adjusting passenger compartment monitoring

WARNING!
This can only be carried out at an authorized workshop! Observe the applicable repair manual of the respective vehicle.

- **Connect the VAS tester.**
- **Open Item 46 (Central Module of Comfort System)**
- **Go to Item 10 (Adjustment)**
- **Follow the request for the code entry and enter the code 15**
- **Reduce the sensitivity of the passenger compartment monitoring to 50 %**
- **Save this setting**
- **The adjustment of the sensitivity of the passenger compartment monitoring is completed**

Webasto
Feel the drive

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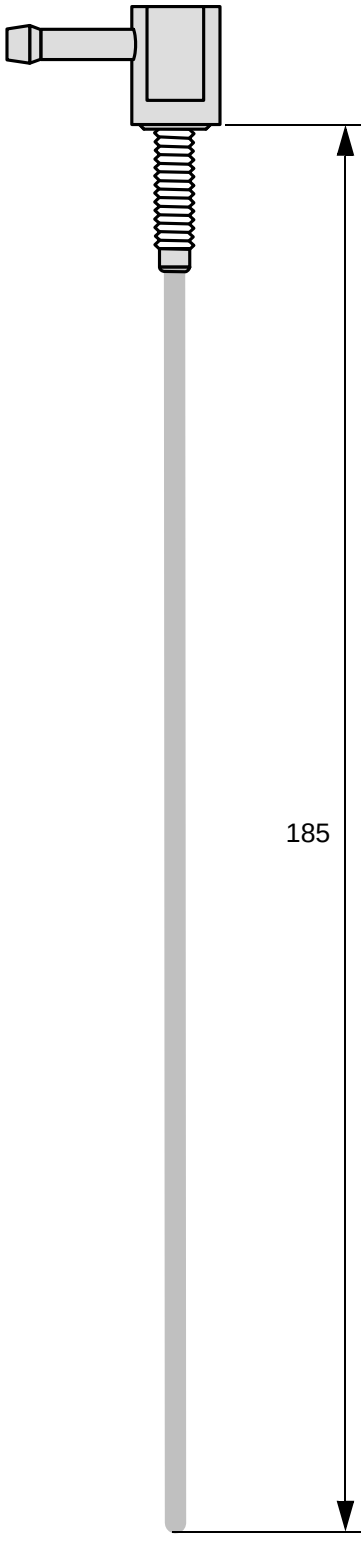
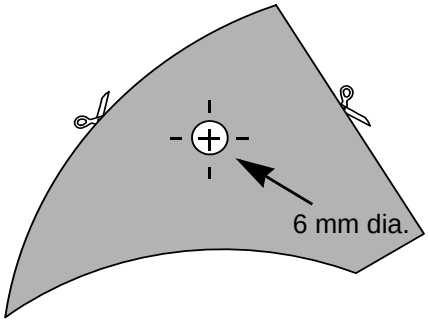
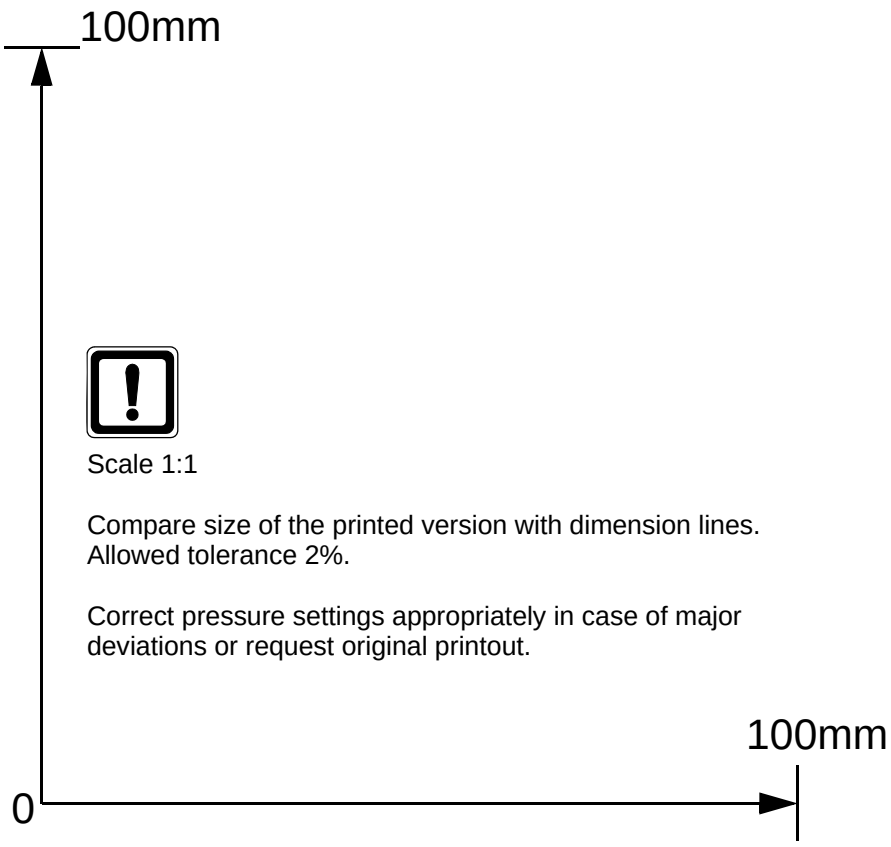
Template for Fuel Standpipe of Version 1



Template for fuel sender Version 1



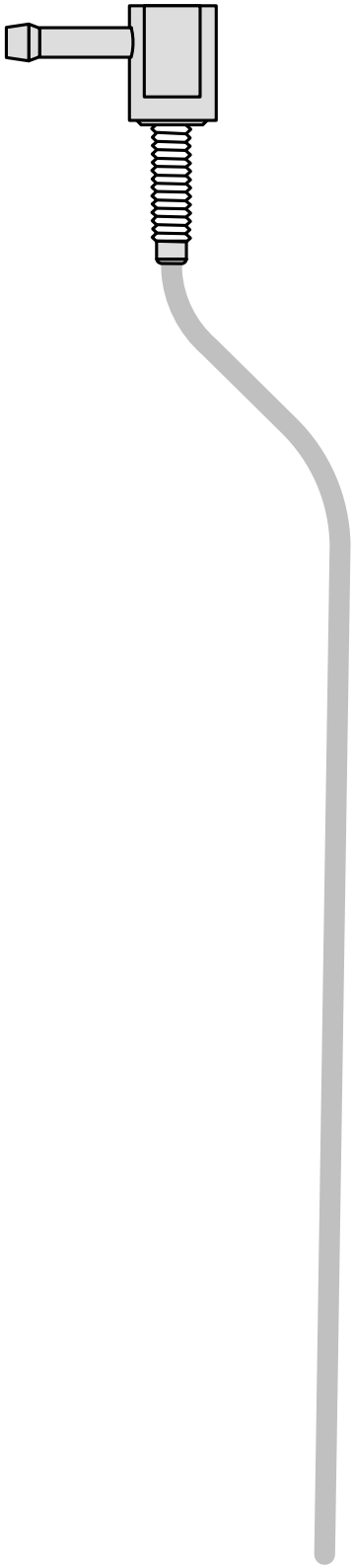


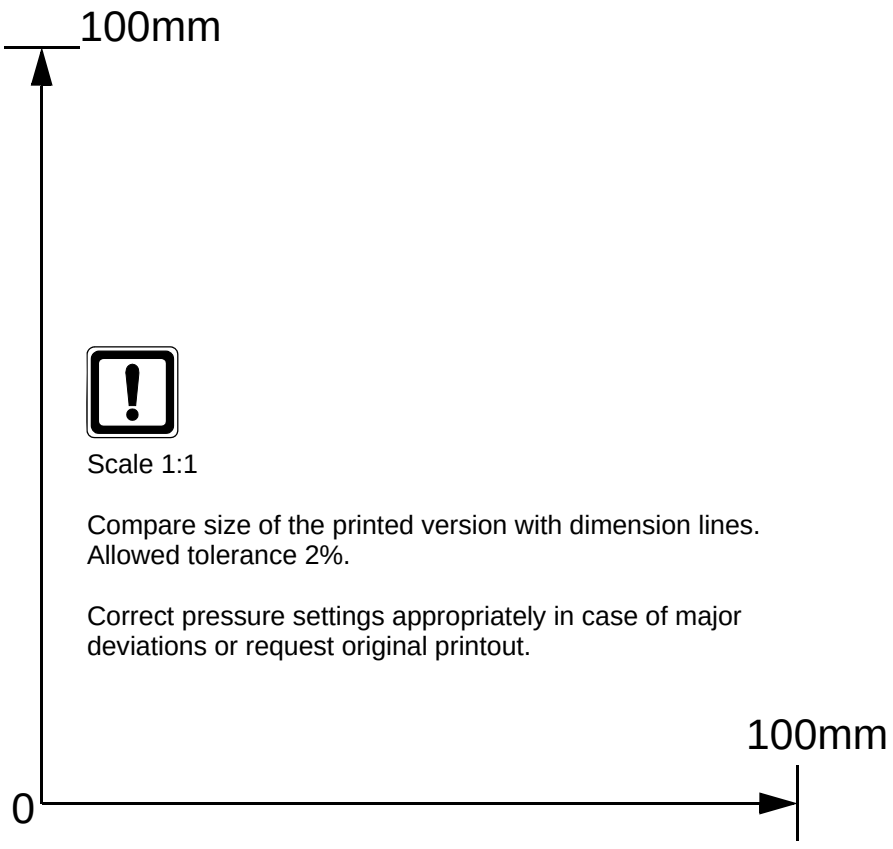
Scale 1:1

Compare size of the printed version with dimension lines.
Allowed tolerance 2%.

Correct pressure settings appropriately in case of major deviations or request original printout.

Template for Fuel Standpipe of Version 2





Scale 1:1

Compare size of the printed version with dimension lines.
Allowed tolerance 2%.

Correct pressure settings appropriately in case of major deviations or request original printout.

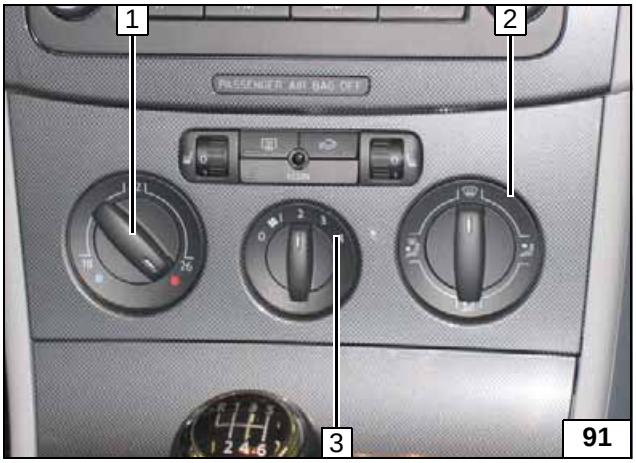
Operating Instructions for End Customer

Please remove page and add to the vehicle operating instructions.

To ensure proper operation of the parking heater, the fuel level in the tank must be above the "Reserve" level. The sensitivity of the passenger compartment monitoring has been reduced.

Note:
We recommend matching the heating time to the driving time.
Heating time = driving time
Example:
For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

Before parking the vehicle, make the following settings:



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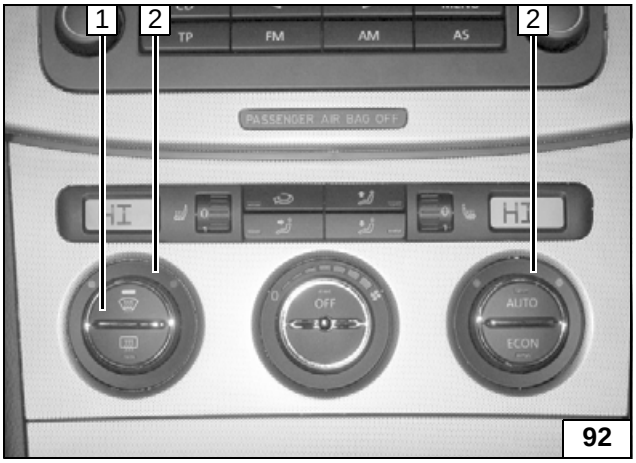
1 Set temperature to "max."
2 Air outlet to windscreen
3 Set fan to level "1", or possibly "2"

Without Climatronic



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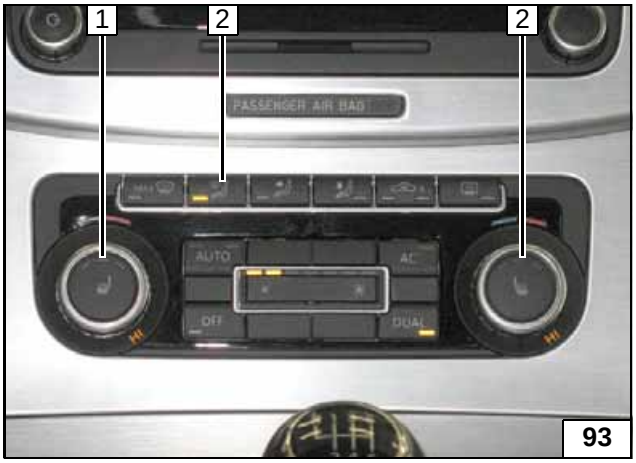
1 Air outlet to windscreen
2 Set temperature to "max."

Climatronic



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1 Air outlet to windscreen
2 Set temperature to "max."

Climatronic