

Water Heater



Thermo Top E Parking Heater

e1
00 0003

Thermo Top C Parking Heater

e1
00 0002

Installation documentation

Audi A3

1.2 and 1.4 TFSI

from model year 2008

Left-hand drive vehicle

1.2 TFSI automatic transmission not checked!



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. See section "Final Work".

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

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Validity

Manufacturer	Model	Type	EG-BE No./ABE
Audi	A3	8P	e1 * 2001/116 * 0217 * ...

Engine type	Engine model	Output in kW	Displacement in cm ³
CBZB	Petrol TFSI	77	1197
CAXC	Petrol TFSI	92	1390

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

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

Audi A3

Heater/Installation Kit

Quantity	Description	Order No.:
1	Retail accessories for <i>Thermo Top E / C</i>	See price list
1	Installation kit for Audi A3 1.2 and 1.4 TFSI	1313621B
1	Heater control	See price list

Heater recommended for the respective vehicle class:

Vehicle	Heater
Compact car	Thermo Top E
Mid-size car, estate car	Thermo Top C
Full-size car, van, offroader	Thermo Top P

The selection of the heater is based on the passenger compartment size of the vehicle and the level of comfort required by the customer.

Foreword

This installation documentation applies to Audi A3 1.2 and 1.4 TFSI vehicles - for validity, see page 2 - from model year 2008 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 the "installation documentation", the "operating instructions" and "installation instructions" for the *Thermo Top C/E* must always be observed.

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

When installing an IPCU, the appropriate settings must be checked and set prior to the installation.

General Instructions

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

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

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

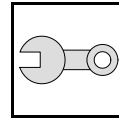
Special Tools

- Torque wrench for 2.0 - 10 Nm
- Hose clamping pliers
- Unlocking tool

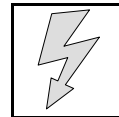
Explanatory Notes on Document

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

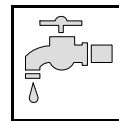
Mechanical system



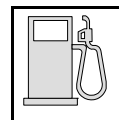
Electrical system



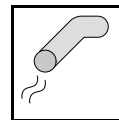
Coolant circuit



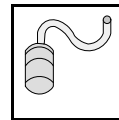
Fuel



Exhaust gas



Combustion air



Special features are highlighted using the following symbols:



Specific risk of injury or fatal accidents.



Specific risk of damage to components.



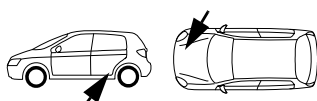
Specific risk of fire or explosion.



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.

All dimensions are in mm!

Tightening torque of hose clamps = 2.0 + 0.5 Nm!

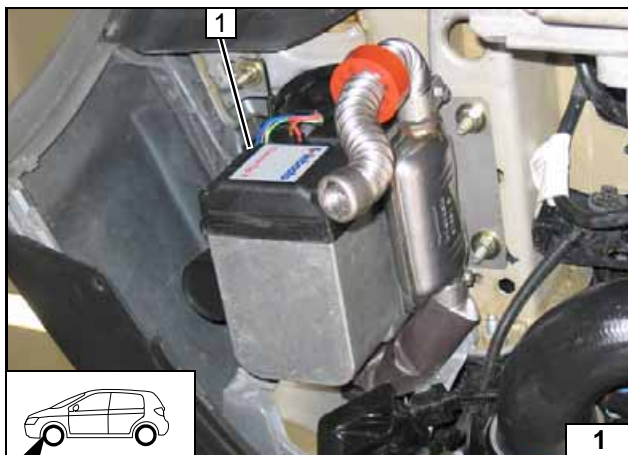
Tightening torque of Ejet screws, Ejet studs = 10 Nm!

Preliminary Work

Warning!

- Open the fuel tank cap, ventilate the tank.
- Close the fuel tank cap again.
- Depressurise 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 "earth" or "ground" connection.
- Remove the air filter box
- Remove the battery
- Remove the battery carrier.
- Remove the left front wheel
- Remove the front section of the left front wheel well trim
- Remove the underride protection.
- Remove the right-hand underbody trim
- Remove the rear bench seat
- Open the right-hand tank-fitting service lid.
- Remove the footwell trim on the driver's side
- Remove the lower instrument panel trim on the driver's side
- Only with Climatronic: remove the A/C control panel.

Remove page 31 "Operating Instructions for End Customer" and add to the vehicle operating instructions.



Heater installation location

1 Heater

Installation location



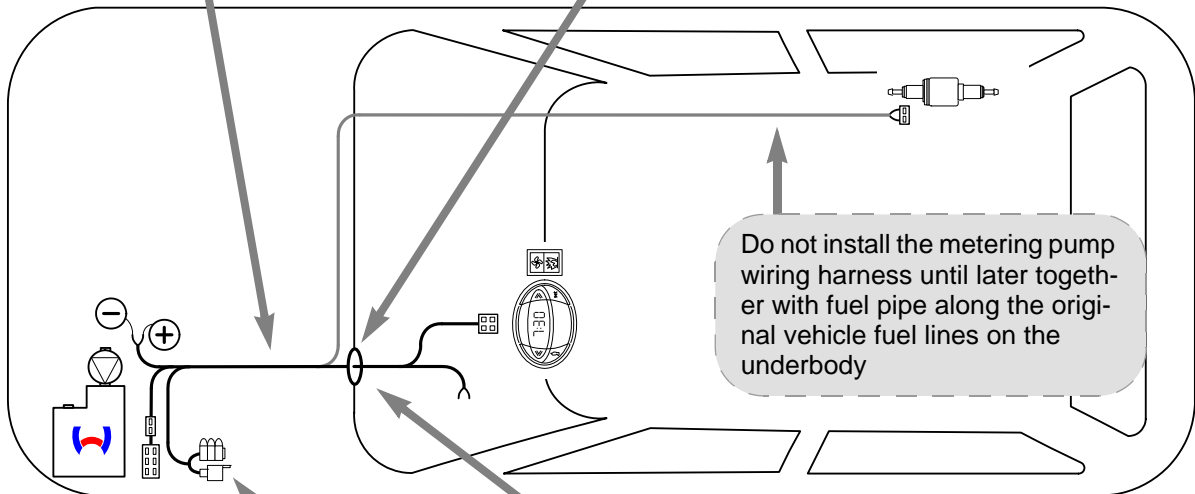
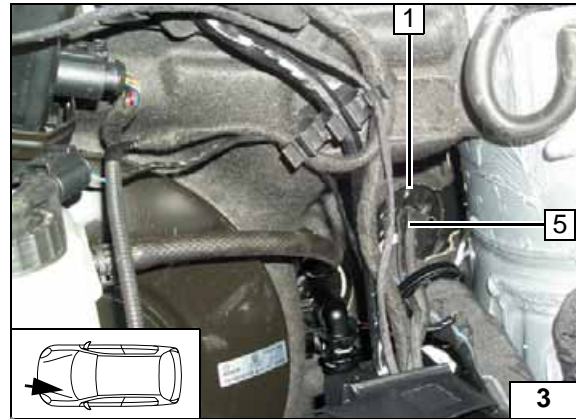
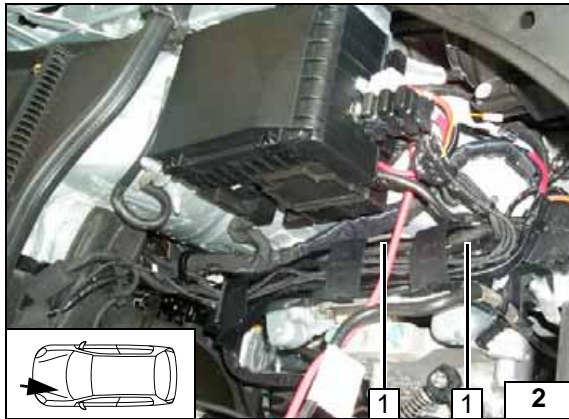
Electrical system

Wiring harness routing

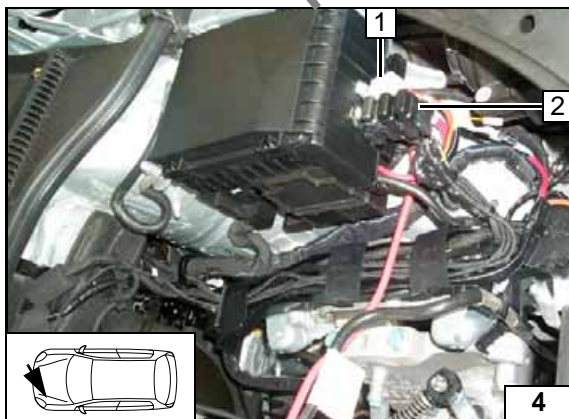
Route excess lengths from wiring harness of heater 1 in cable duct below battery and secure with cable ties.

Wiring harness pass through in engine compartment

1 Original vehicle wiring harness pass through

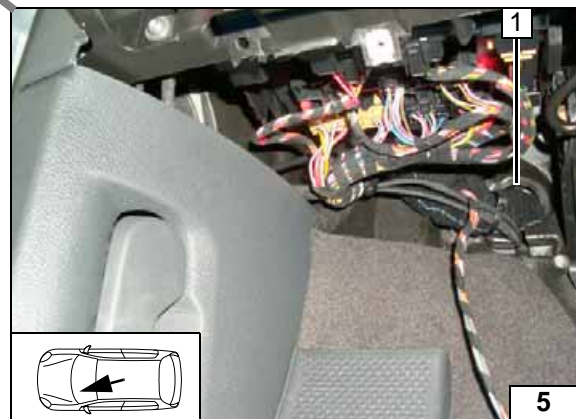


Wiring harness routing diagram



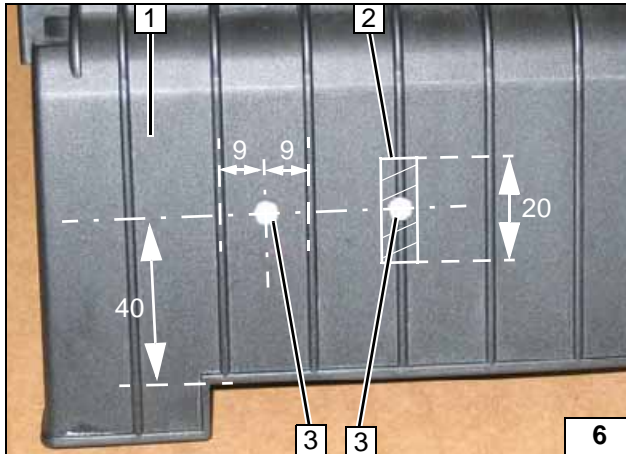
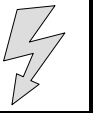
Fuse holder, K3 relay

Description of installation for K3 relay 1 and fuse carrier 2 on Page 7



Wiring harness pass through of passenger compartment

1 Original vehicle wiring harness pass through



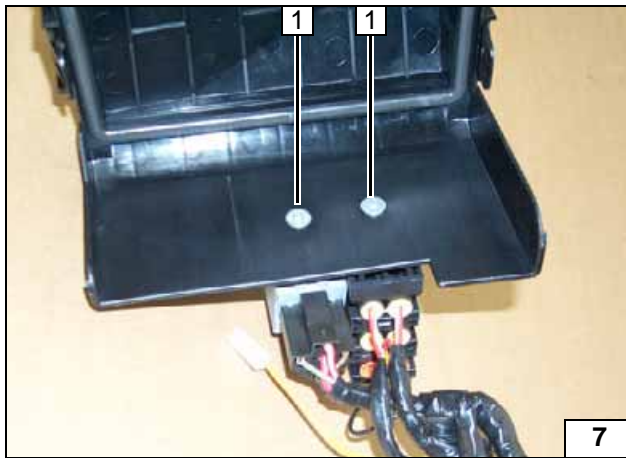
Fuse holder and K3 relay

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** 5.0 mm dia. hole [2x]

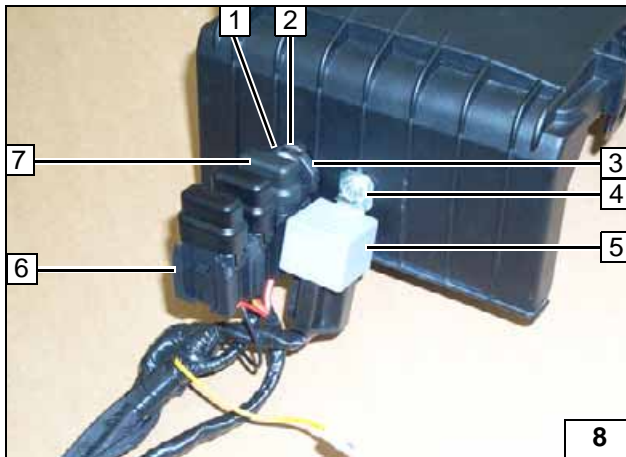


Holes for fuse holder and K3 relay



- 1** M5x12 countersunk head screw [2x]

Installing fuse holder and K3 relay

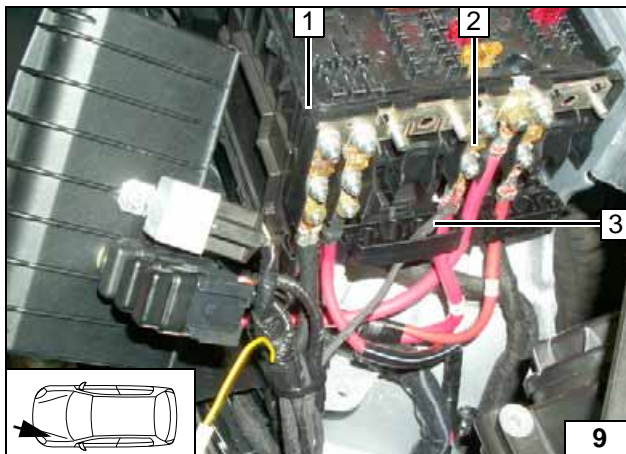


On vehicles with Climatronic, replace 25 A fuse F3 **7** with 5 A fuse provided.

- 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 K3 relay

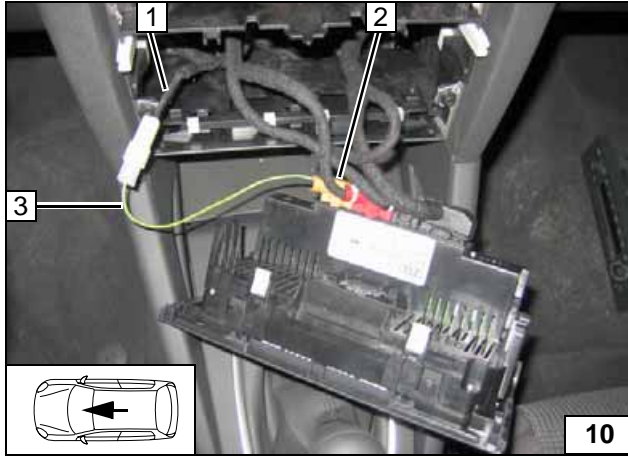
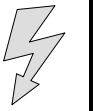


Route brown (br) earth wire to original vehicle earth support point below headlight and connect.

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



Connecting positive and earth wire



Climatronic fan control

Produce connection as shown in wiring diagram.

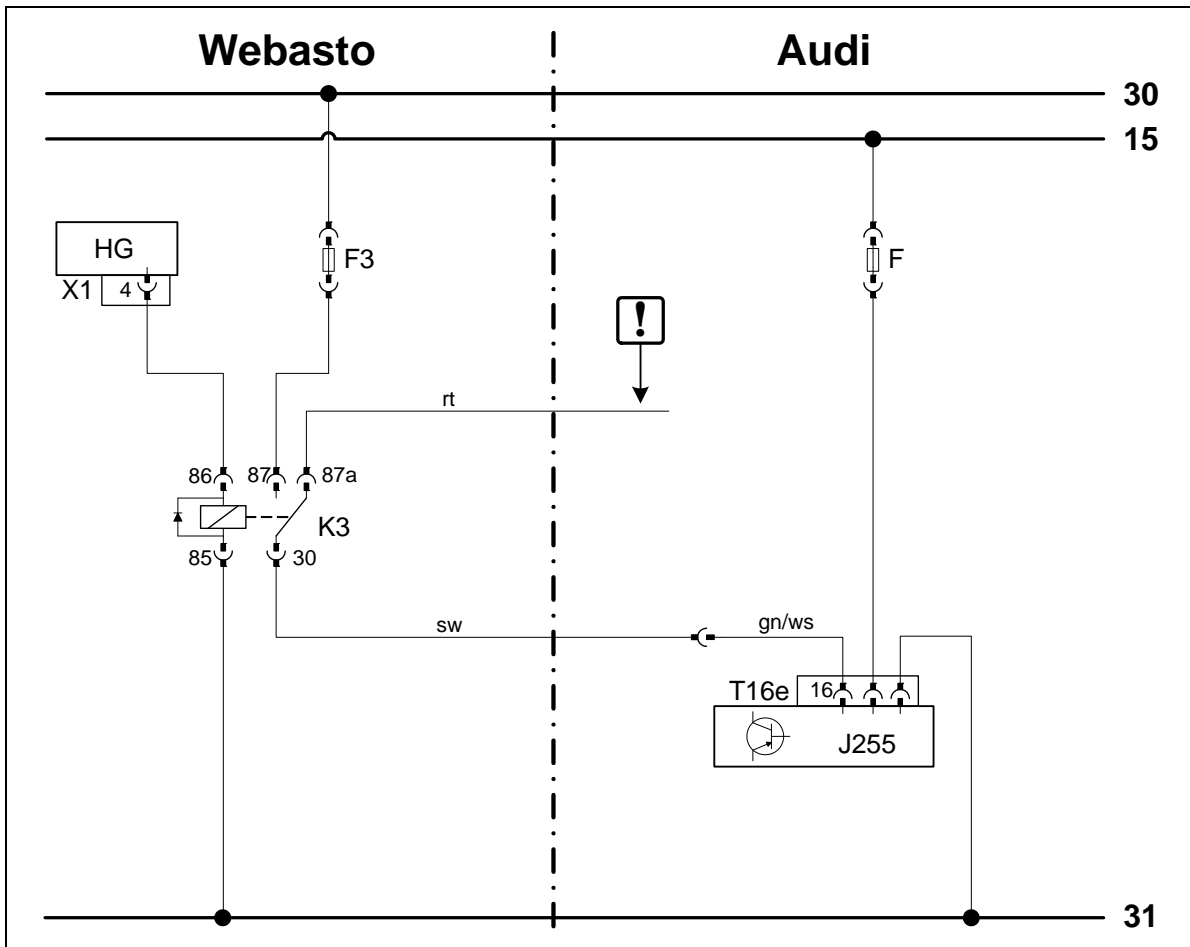
- 1 Black (sw) wire from K3/30
- 2 Beige connector T16e
- 3 Green/white (gn/ws) wire




Connecting air-conditioning control panel

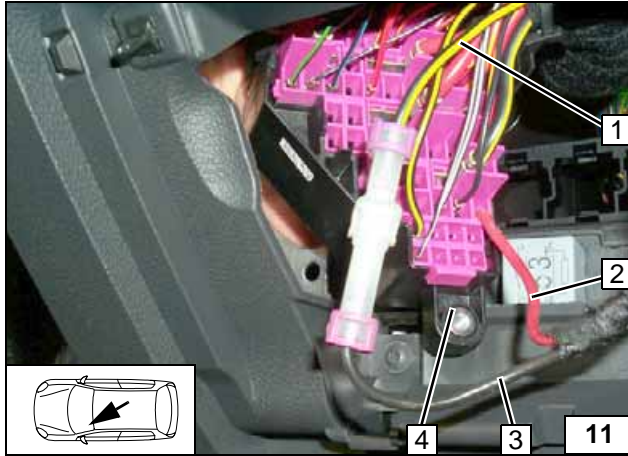


Climatronic Wiring Diagram



Webasto components		Components of Audi A3		Colours and symbols	
HG	Heater TT-C/E	J255	Control unit of A/C control panel	rt	red
X1	6-pin connector	T16e	Connector, beige	ws	white
F3	Replace 25 A fuse F3 with 5 A fuse.			sw	black
K3	Fan relay			br	brown
				gn	green
					
				Wiring colours may vary.	

Legend



Climatic fan control

Detach vehicle fuse carrier 4 and unlock contact lock. Unlock and remove black/yellow (sw/ge) 4² wire 1 on fuse carrier. Produce connection as shown in wiring diagram - cutting point ①.

- 2 Red (rt) wire from K3/87a
- 3 Black (sw) wire from K3/30

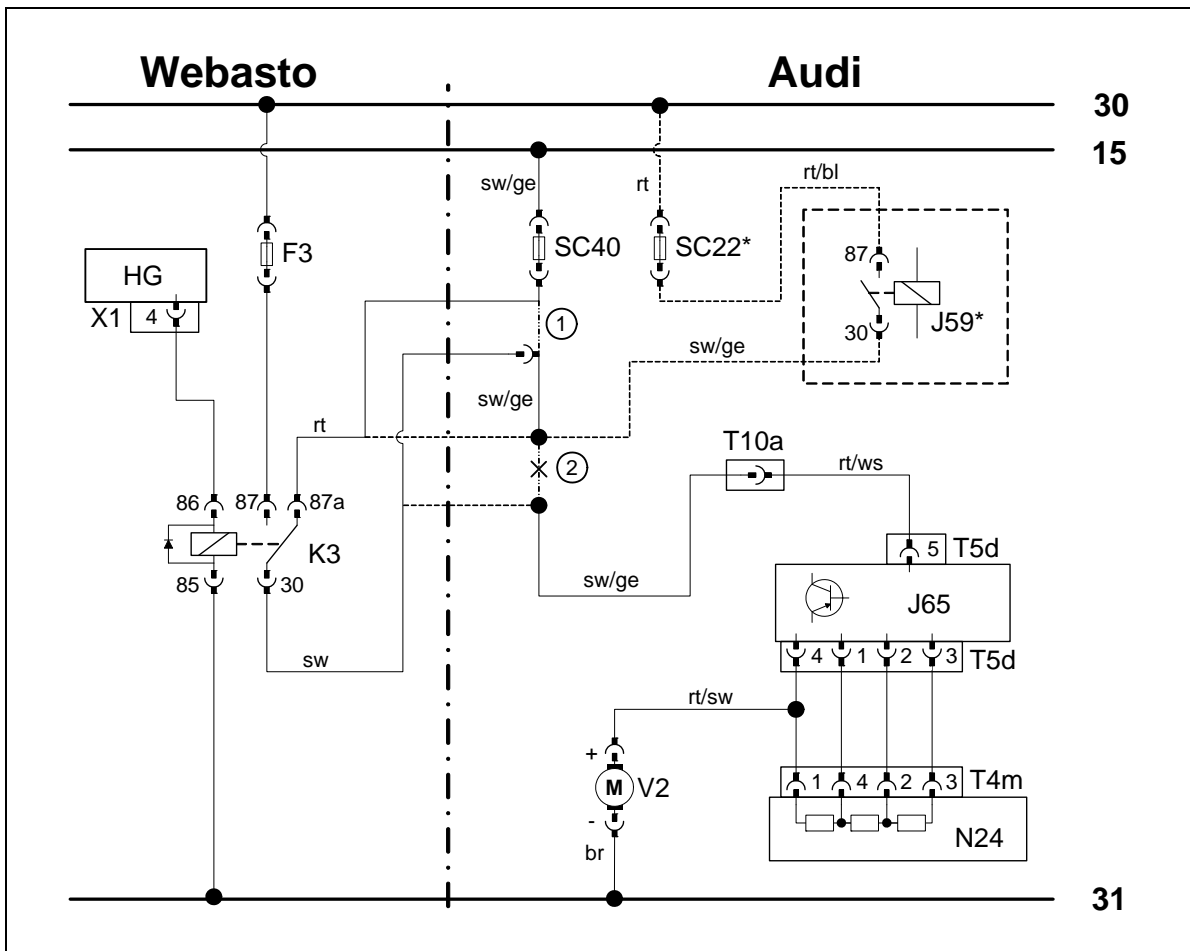
For vehicles from model year 2008, cut black/yellow (sw/ge) 4² wire from relay J59 of connector T10a and connect red (rt) 4² K3/87a wire and black (sw) K3/30 wire (see Wiring Diagram dashed - cutting point ②). Alternative cutting point on connector T5d.



Fan motor connection

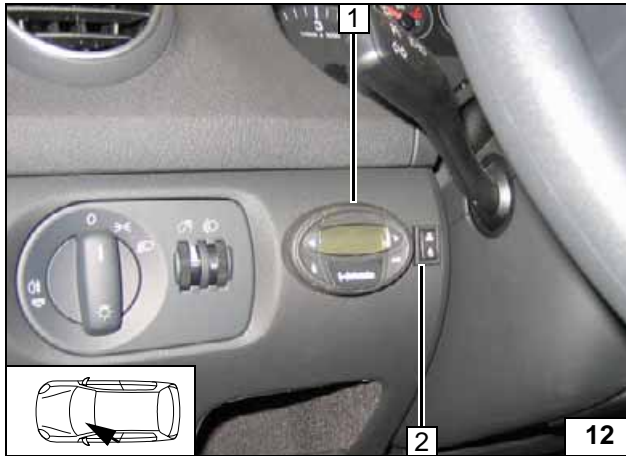
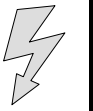


Climatic Wiring Diagram



Webasto components		Components of Audi A3		Colours and symbols	
HG	Heater TT-C/E	J65	Control unit of A/C control panel	rt	red
X1	6-pin connector	N24	Resistor group	ws	white
F3	25 A fuse F3	SC40	Fuse 40A	sw	black
K3	Fan relay	SC22*	40A fuse from Model Year 2008	br	brown
		J59*	Release relay	gn	green
		T....	Connector	ge	yellow
				*	from Model Year 2008
		T10a	10-pin connector behind glove compartment		
					Wiring colours may vary.

Legend

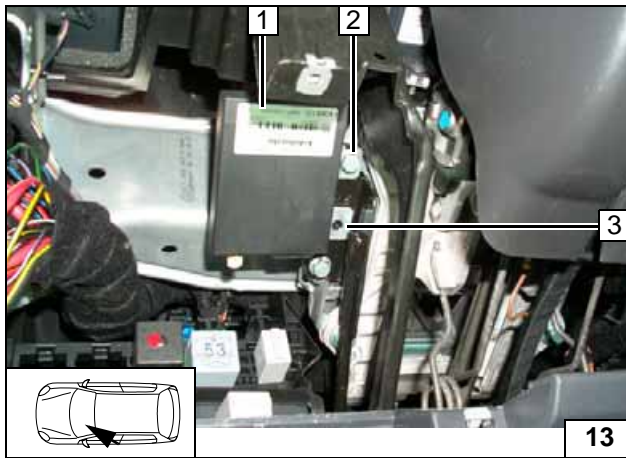


**Digital timer
Summer/winter switch option**

- 1 Digital timer
- 2 12 mm dia. hole, summer/winter switch



Installing digital timer



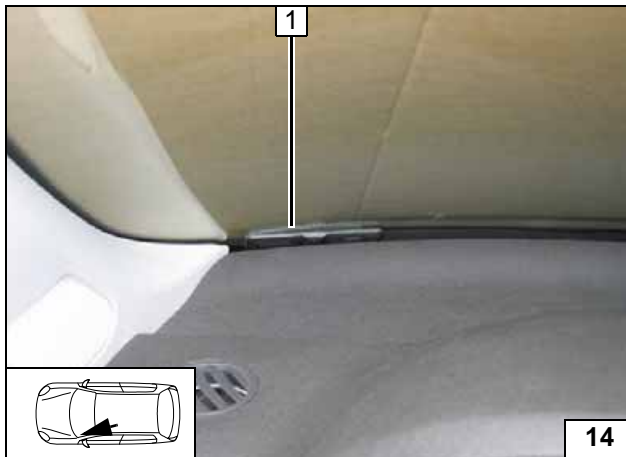
Remote option (Telestart)

If M6 bolt 2 is not present, then use suitable M6 bolt with spring lockwasher. Drill out upper hole of bracket to 6.5 mm dia.

- 1 Receiver
- 2 M6 bolt in existing threaded hole
- 3 Bracket

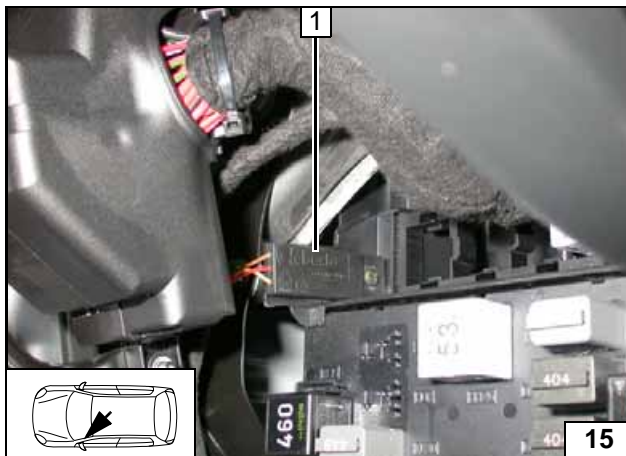


Installing receiver



- 1 Antenna

Installing antenna

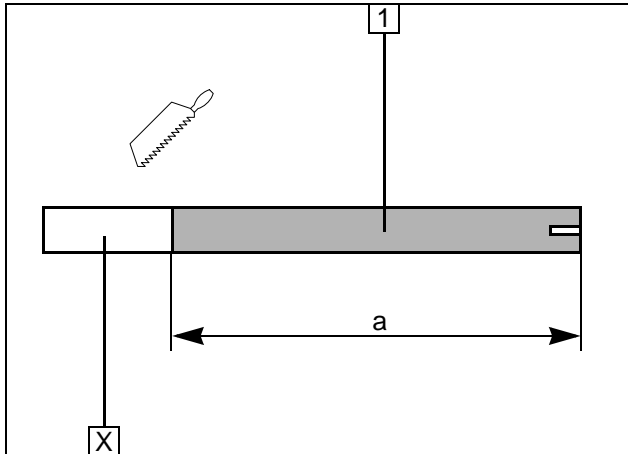
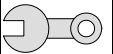


Temperature sensor HTM100

- 1 Fasten temperature sensor with adhesive tape



Installing temperature sensor

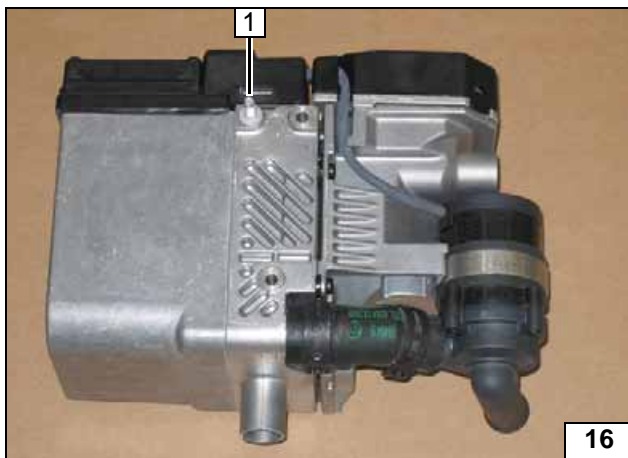


Premounting heater

- 1 Combustion air pipe
a = 250

Discard section X

Cutting combustion air pipe to length

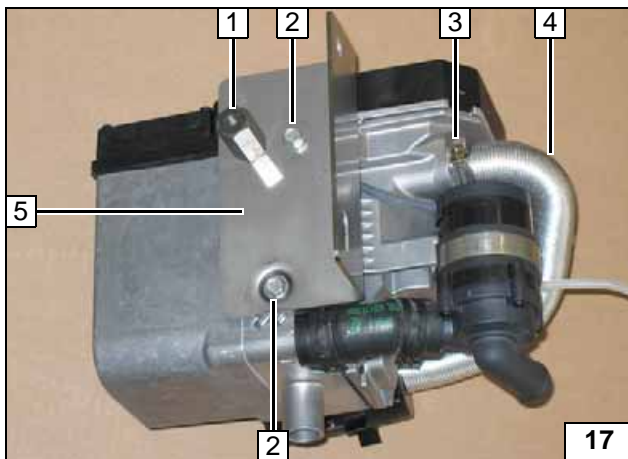


E-jot stud, tightening torque 10 Nm.

- 1 E-jot stud



Premounting heater

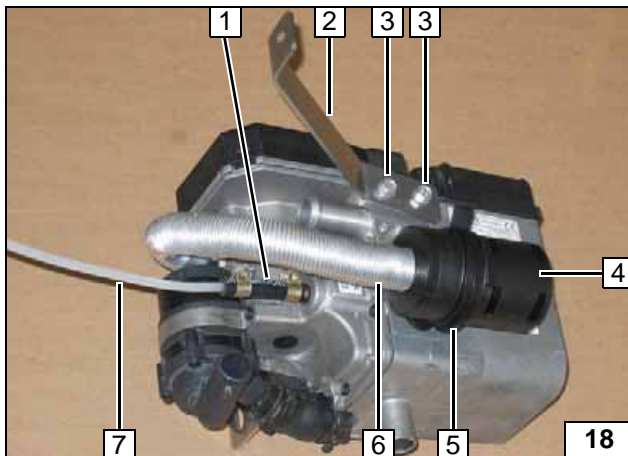


Insert one washer each between heater and bracket at positions 2

- 1 M6x30 spacer nut
- 2 Washer, E-jot screw [2x]
- 3 27 mm dia. clamp
- 4 Prepared combustion air pipe (slotted side on heater)
- 5 Bracket

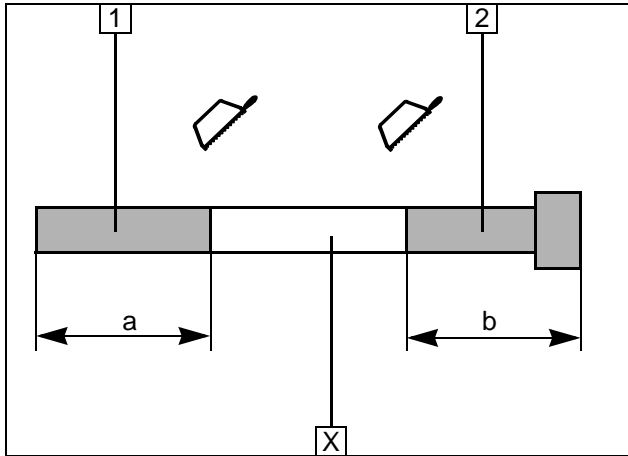
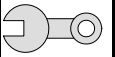


Premounting heater



- 1 Hose section, 10 mm dia. clamp [2x]
- 2 Strut
- 3 E-jot screw [2x]
- 4 Combustion-air intake silencer
- 5 Retaining clip in hole of heater
- 6 Combustion air pipe
- 7 Fuel line

Premounting heater

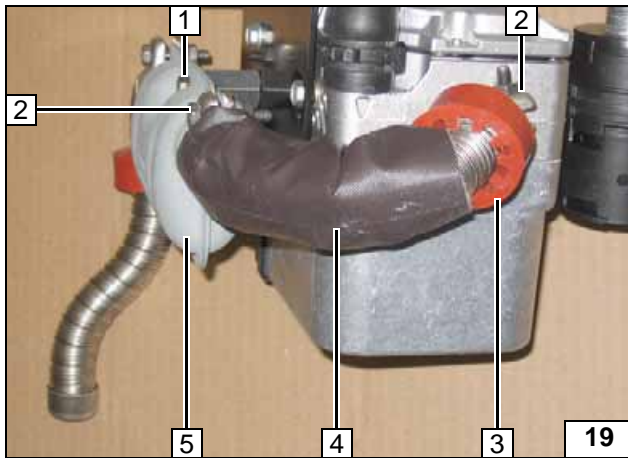


- 1 Exhaust pipe
a = 190
- 2 Exhaust end section
b = 240

Discard section X

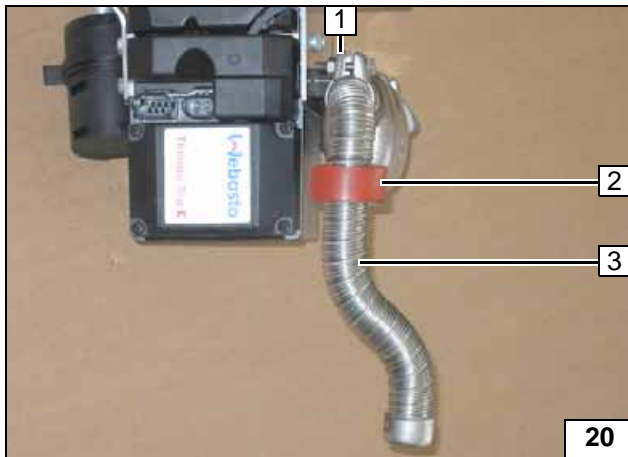


**Cutting ex-
haust pipe
to length**



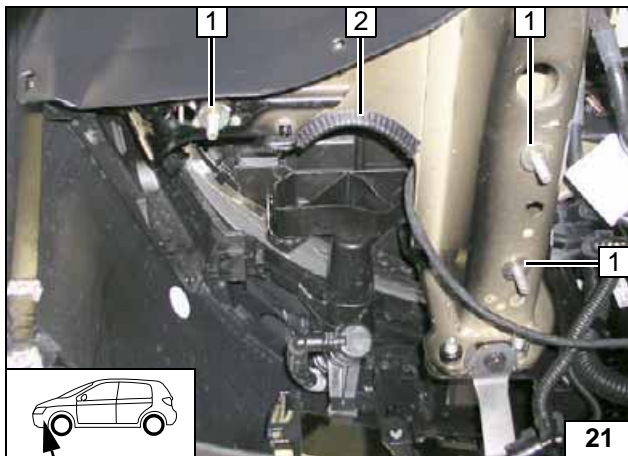
- 1 M6x16 bolt, spring lockwasher
- 2 Hose clamp [2x]
- 3 Red (rt) rubber isolator, without groove
- 4 Exhaust pipe with insulation
- 5 Silencer

**Premount-
ing ex-
haust
system**



- 1 Hose clamp
- 2 Red rubber isolator, without groove
- 3 Exhaust end section

**Premount-
ing ex-
haust
system**



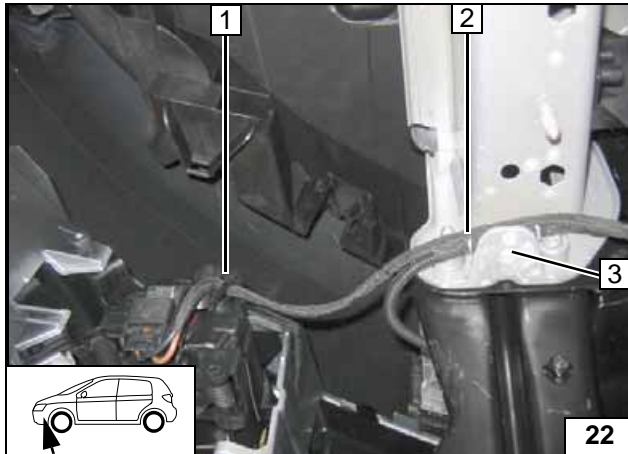
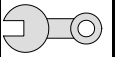
Preparing installation location

Secure large diameter washer against falling with putty etc.

- 1 Large diameter washer on original vehicle stud bolt [3x]
- 2 Edge protection section



**Preparing
installa-
tion
location**

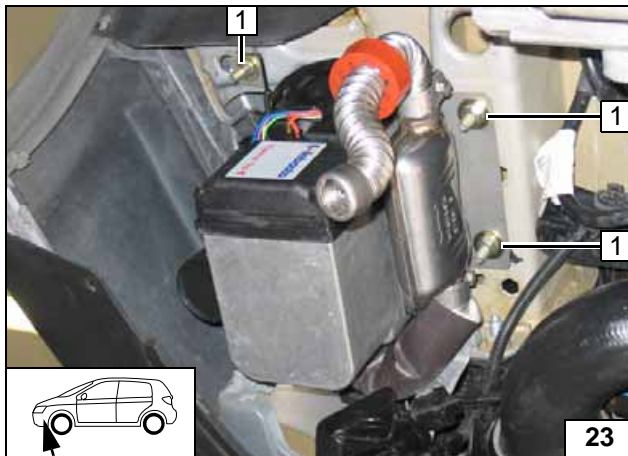


In vehicles as shown, remove the retaining clip from original vehicle wiring harness 2 on position 3 and reinsert from the top.

1 Cable tie



Routing wiring harness

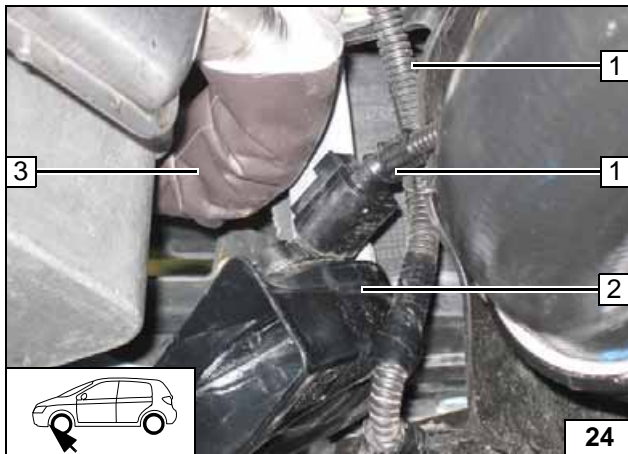


Installing heater

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



Installing heater

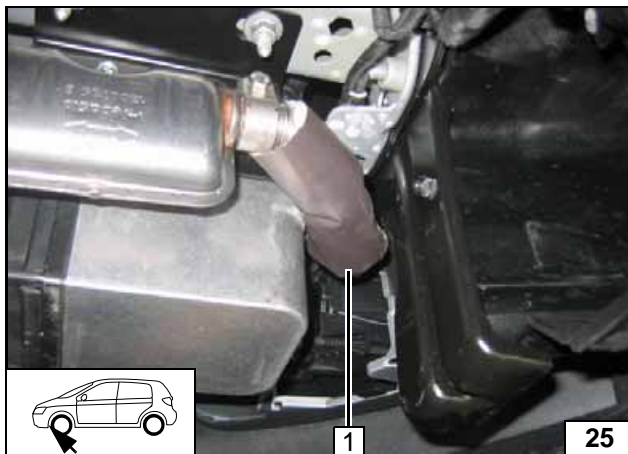


The wiring harnesses 1 in vehicles must be attached with cable ties as shown. Ensure freedom of movement of exhaust pipe 3 relative to original vehicle components and lines.

2 Horn



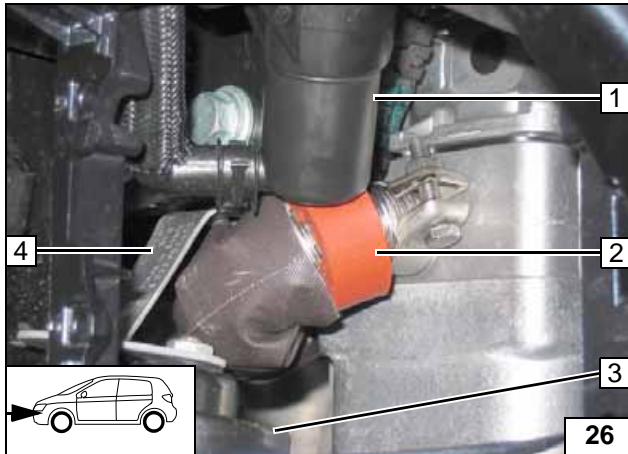
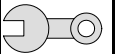
Aligning exhaust system



Align the exhaust pipe 1 in vehicles as shown. Ensure freedom of movement of original vehicle component and lines.



Aligning exhaust system



All vehicles

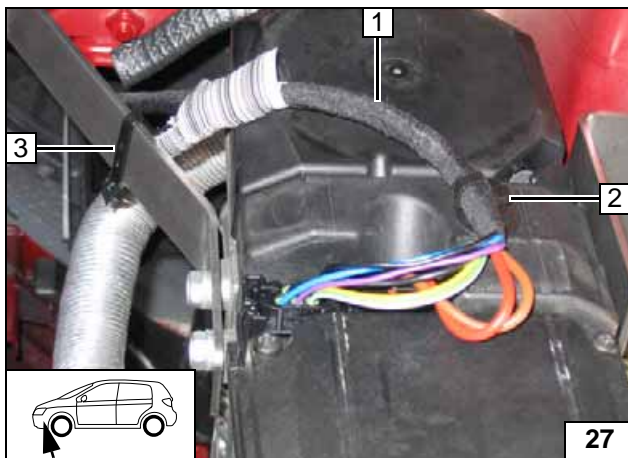
Ensure freedom of movement of exhaust system relative to original vehicle component and lines.

Position rubber isolator **2**.

- 1 Headlight washer system
- 3 Horn
- 4 Horn bracket



Aligning exhaust system



Punch through the perforation in the centre heater cover at position **2**.

- 1 Wiring harness of heater
- 2 Insert clip-type cable tie
- 3 Cable tie



Mounting and routing wiring harness



Fuel Connection

CAUTION!

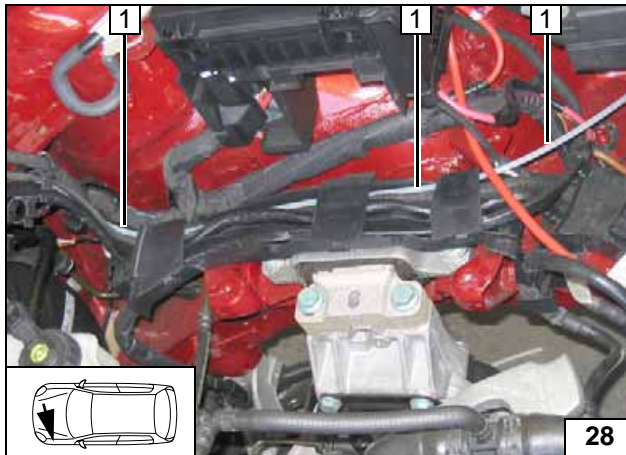
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

Catch any fuel running off with an appropriate container.

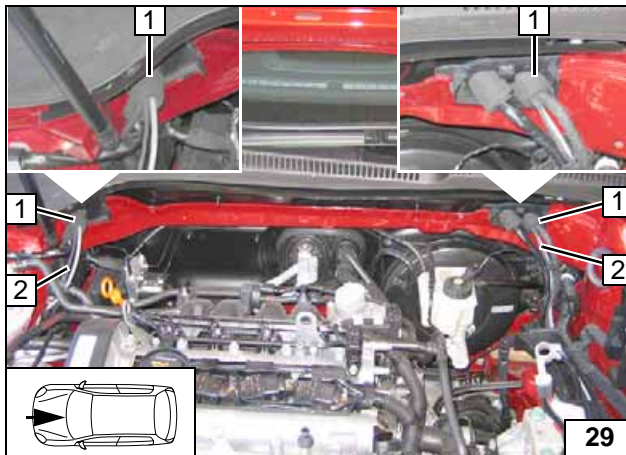
Install fuel line and metering pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties. Mount the fuel line and wiring harness with rub protection on sharp edges.

WARNING!

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

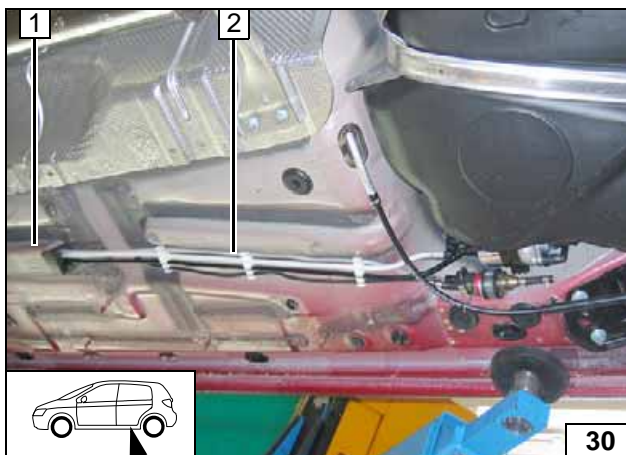


1 Fuel line



Route Mecanyl line and wiring harness of metering pump **2** in coolant reservoir to right and fasten on original vehicle lines with cable ties. Pay particular attention to freedom of movement of wiper linkage. Route Mecanyl line and wiring harness of metering pump to underbody in wiring duct.

2 Existing pass through [2x]



Route fuel line and wiring harness of metering pump along original vehicle fuel lines **2** to fuel tank.

1 Line duct



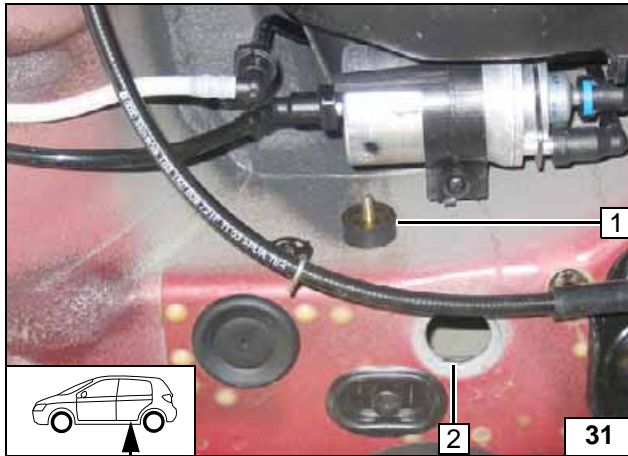
Routing to firewall



Routing in coolant reservoir

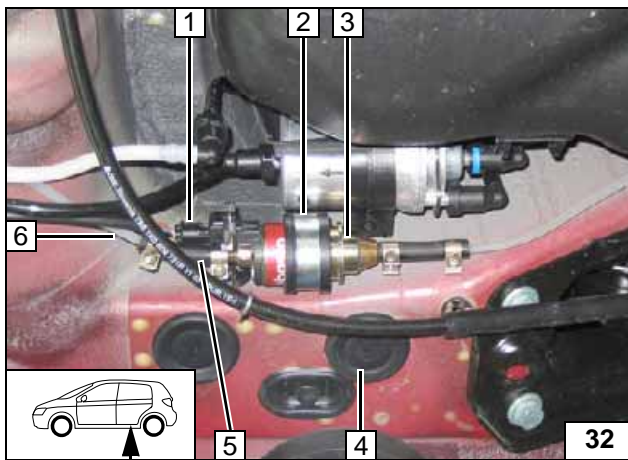


Routing fuel line and wiring harness of metering pump



- 1 Silent block, large diameter washer, M6 flanged nut
- 2 Remove sealing plug

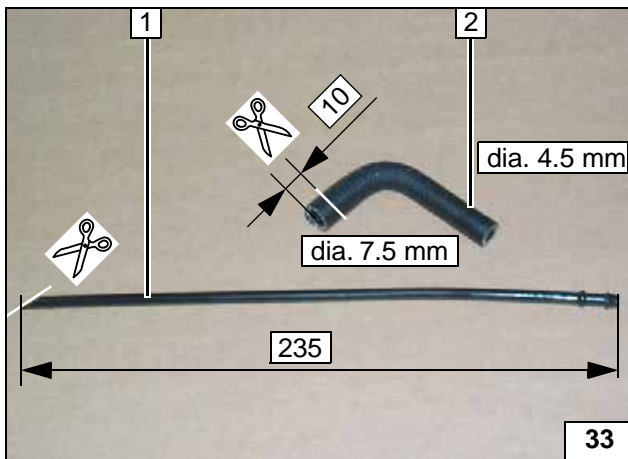
Installing silent block



- 1 Wiring harness of metering pump, connector mounted
- 2 Secure rubber-coated p-clamp on silent block with flanged nut
- 3 Metering pump
- 4 Plug remounted
- 5 Hose section, 10 mm dia. clamp [2x]
- 6 Fuel line

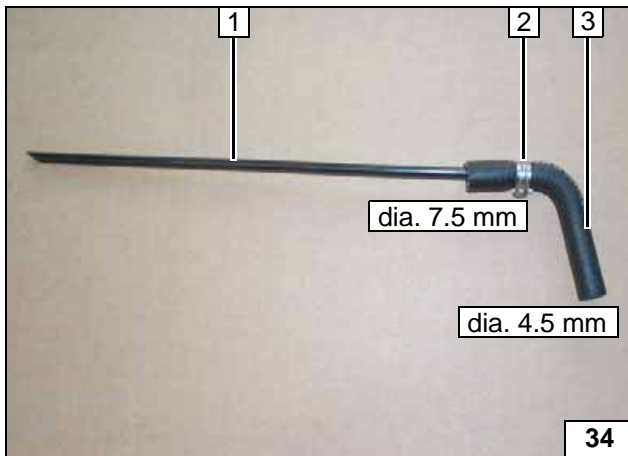


Mounting metering pump and connecting pressure side



- 1 Standpipe
- 2 Moulded hose

Cutting standpipe and moulded hose to length

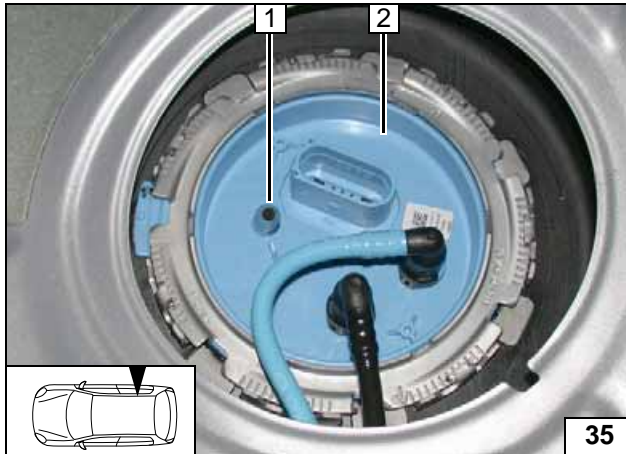
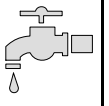


10 mm dia. Caillau clamp 2 in centre between beads on end of standpipe.

- 1 Standpipe
- 3 Moulded hose



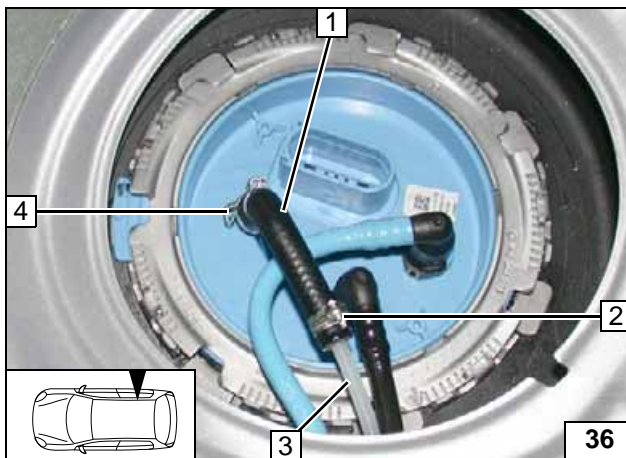
Premounting standpipe and moulded hose



- 1 Tip of blind plug shortened by 3 mm
- 2 Fuel-tank sending unit



Cutting off blind plug

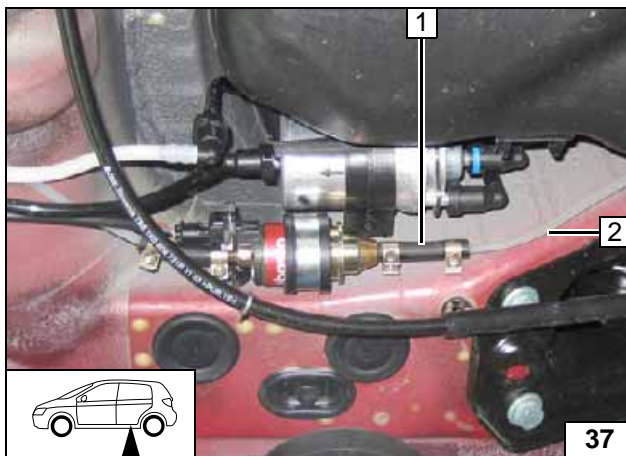


Should the standpipe be slightly curved on delivery, then it must be aligned so that the end points toward the rear right. Otherwise there is a danger of the fuel gauge being impaired.

- 1 Premounted moulded hose with standpipe
- 2 10 mm dia. clamp
- 3 Fuel line
- 4 13.5 mm dia. clamp



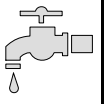
Connection to fuel-tank sending unit



- 1 Hose section, 10 mm dia. clamp [2x]
- 2 Fuel line from fuel-tank sending unit



Connecting intake side of metering pump

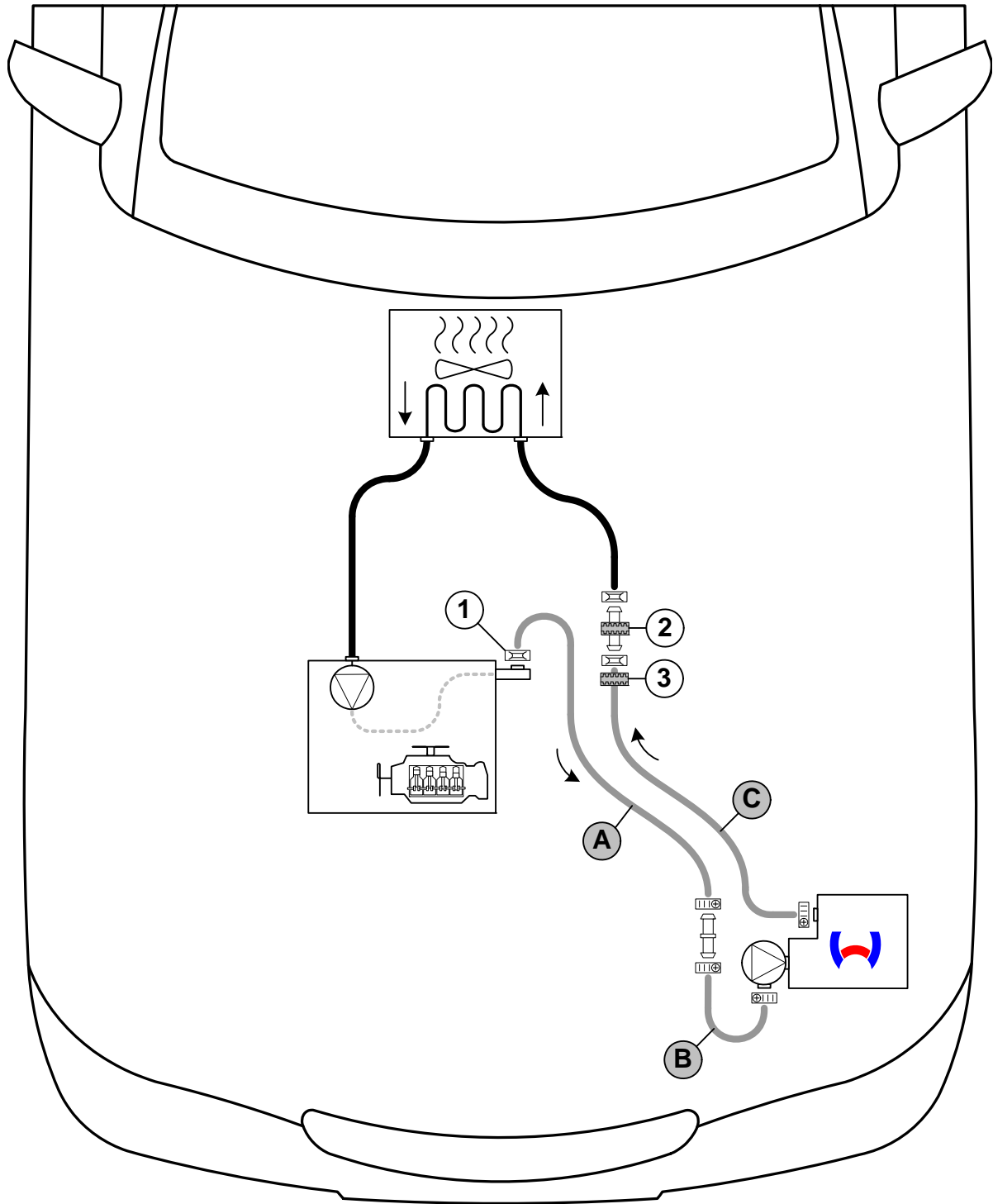


Coolant circuit









WARNING!

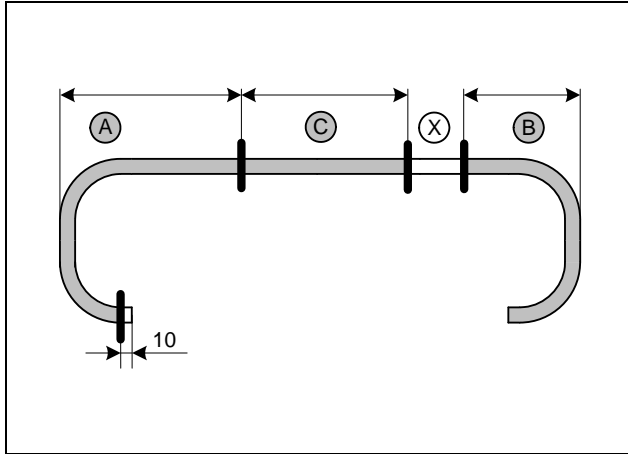
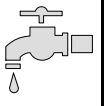
Any coolant running off should be collected using an appropriate container. Install hoses so that they are kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that other hoses cannot be damaged. The heater must be filled with coolant when installing the hoses. The connection should be "inline" based on the following diagram:



Hose installation diagram

All spring clips without a specific designation  = 27 mm dia. 1 = Original vehicle spring clip  .
 All hose clamps  = 20-27 mm dia. All connecting pipes  = 20x20 mm dia.
 2 = Black (sw) rubber isolator  (only for 1.2 manual transmission and 1.4 automatic transmission).
 3 = Black (sw) rubber isolator  (only for 1.4 manual transmission).





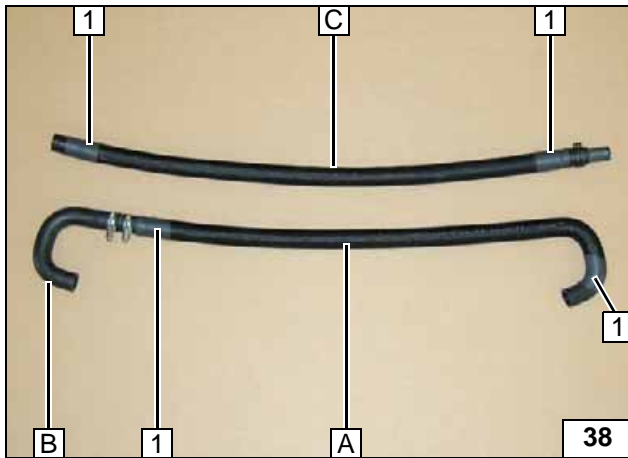
1.2 manual transmission

Discard section X.

- A = 750
- B = 120
- C = 900



Cutting hoses to length

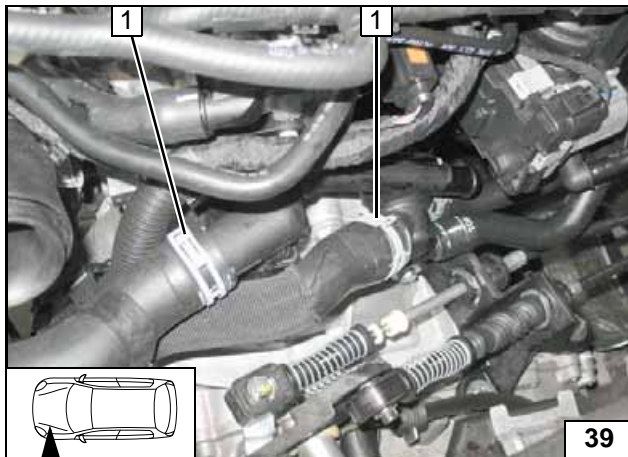


Push braided protection hoses onto hose A and C, cut to length and shrink.

- 1 Heat shrink plastic tubing [4x]



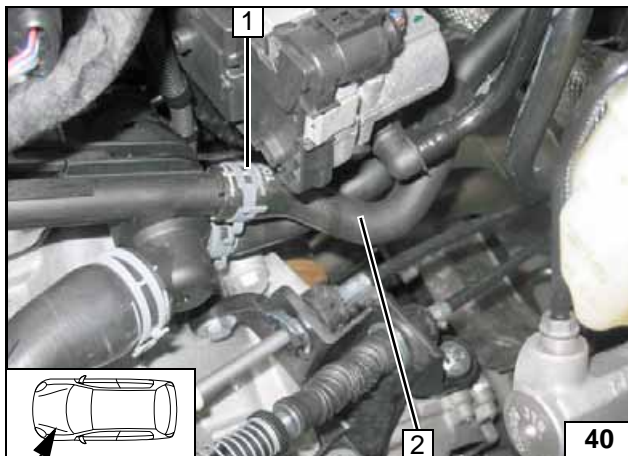
Premounting hoses



Turn clamp lock 1 toward engine [2x].



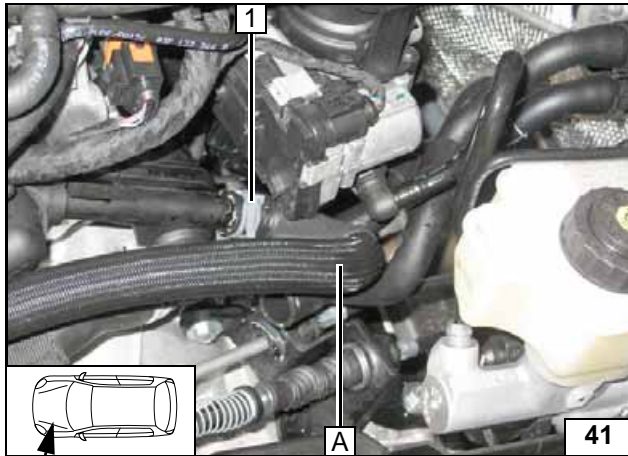
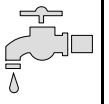
Turning clamps



Disconnect hose to engine outlet/heat exchanger inlet 2 at connection piece of engine outlet. Spring clip 1 will be reused.



Cutting point

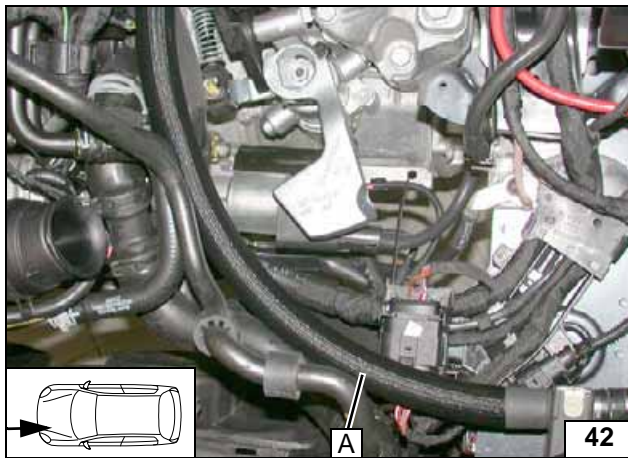


Install hose **A** on engine outlet connection piece with a 180° elbow.

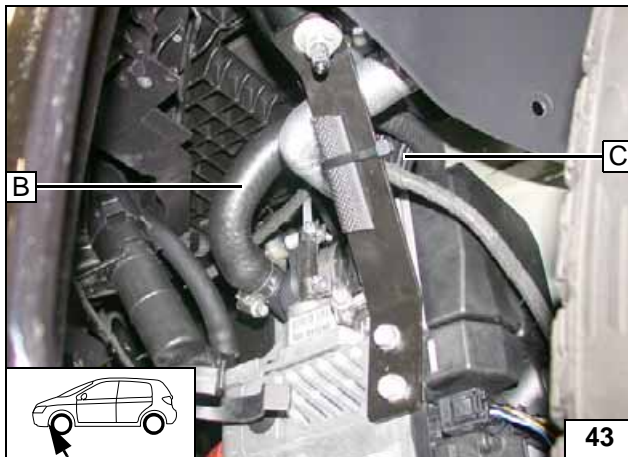
1 Original vehicle spring clip



Connect-
ing engine
outlet



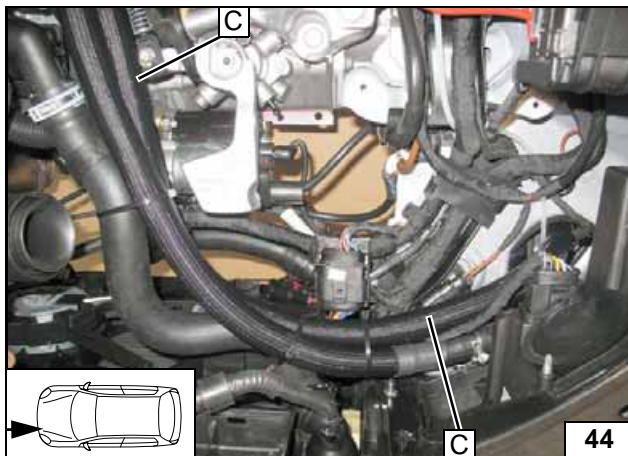
Routing in
engine
compart-
ment



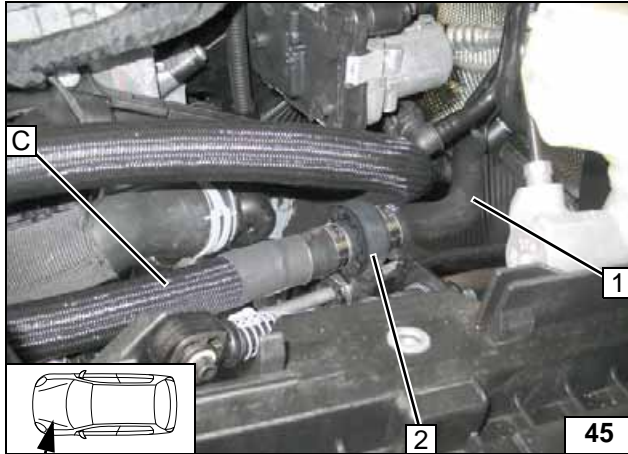
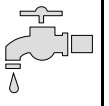
Combustion air silencer tied off for demon-
stration purposes.



Connect-
ing heater



Routing in
engine
compart-
ment

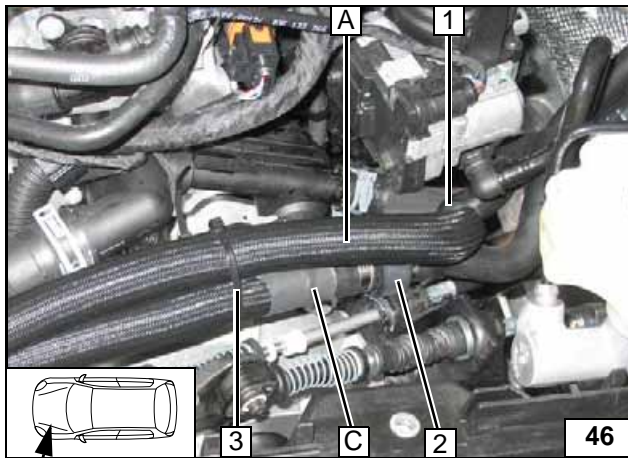


Install black (sw) rubber isolator **2** in the connecting point.

1 Hose on heat exchanger inlet



Connecting heat exchanger inlet

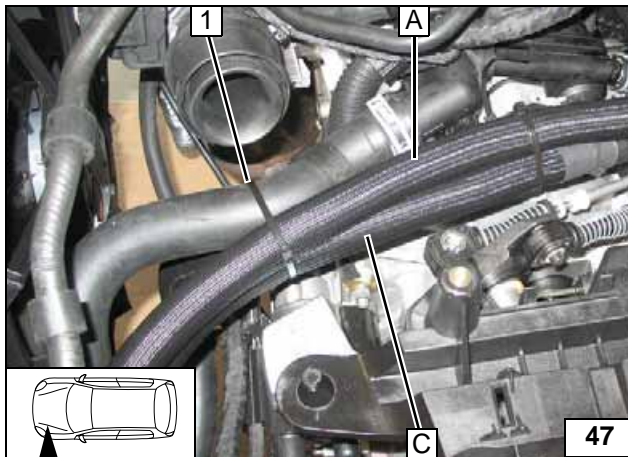


Align black (sw) rubber isolator **2** on the gear change bracket. Align hoses and attach to the original vehicle hose with cable tie **3**. Observe a sufficient distance to the adjacent components, especially to the gear change. Adjust, if necessary.

1 Cable tie



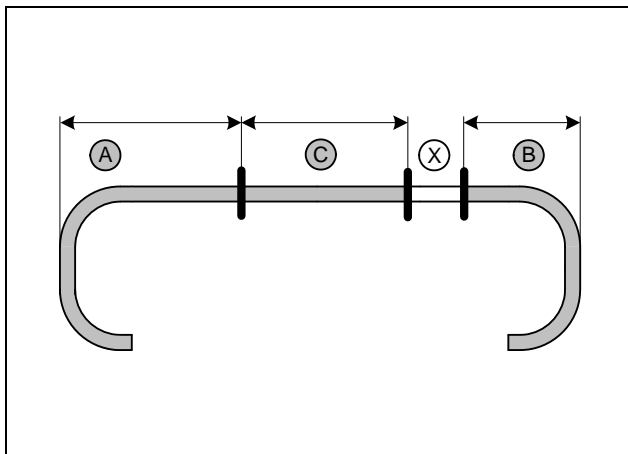
Fastening hoses



Align hoses and attach to the original vehicle hose with cable tie **1**.



Fastening hoses



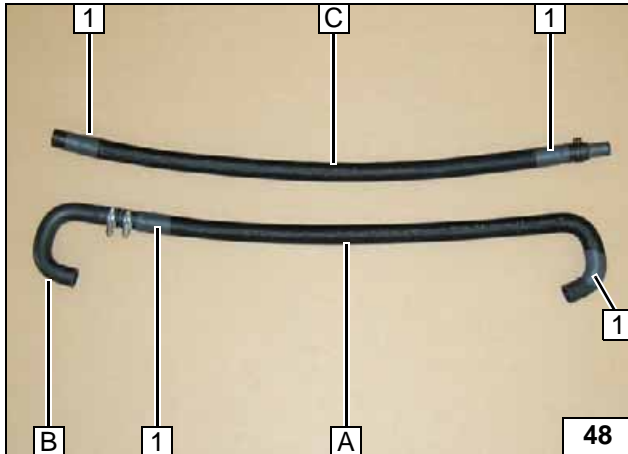
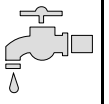
1.4 manual transmission

Discard section **X**.

- A** = 780
- B** = 120
- C** = 1000



Cutting hoses to length

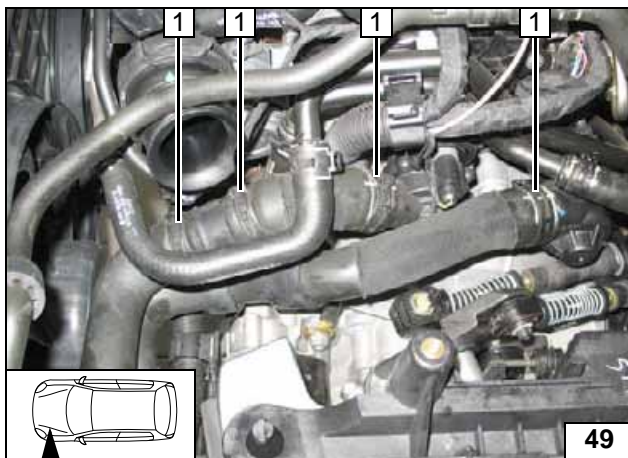


Push braided protection hoses onto hose **A** and **C**, cut to length and shrink.

1 Heat shrink plastic tubing [4x]



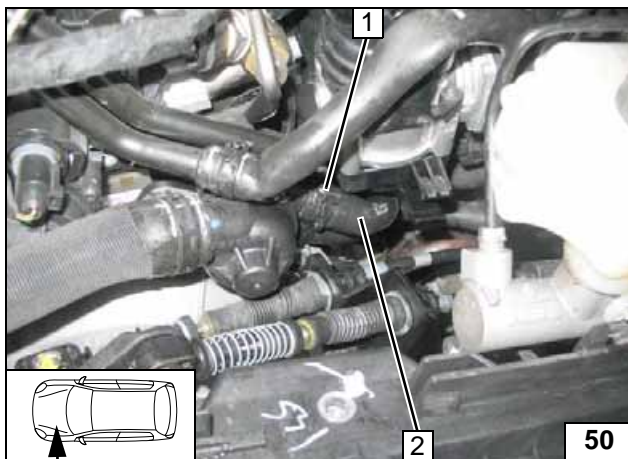
Premounting hoses



Turn clamp lock **1** toward engine [4x].



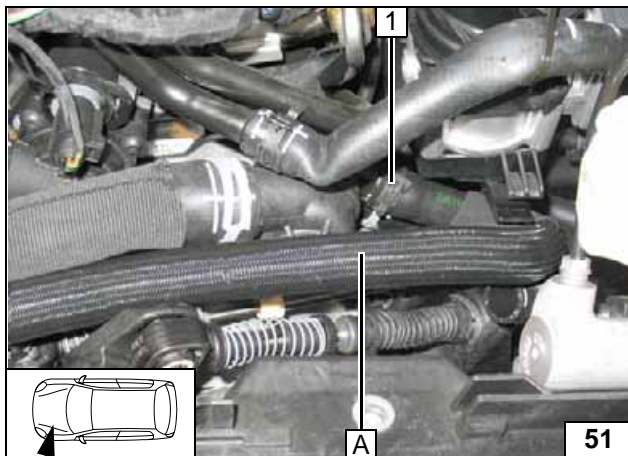
Turning clamps



Disconnect hose to engine outlet/heat exchanger inlet **2** at connection piece of engine outlet. Spring clip **1** will be reused.



Cutting point

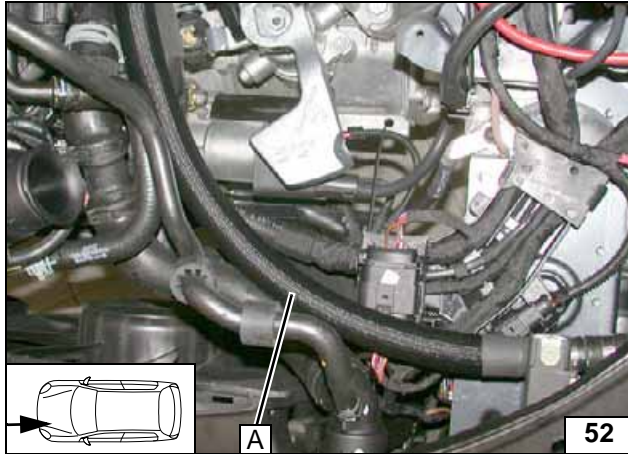
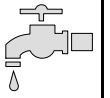


Install hose **A** on engine outlet connection piece with a 180° elbow.

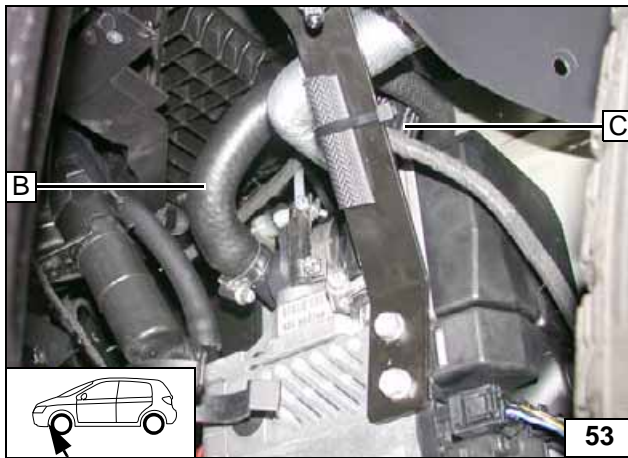
1 Original vehicle spring clip



Connecting engine outlet



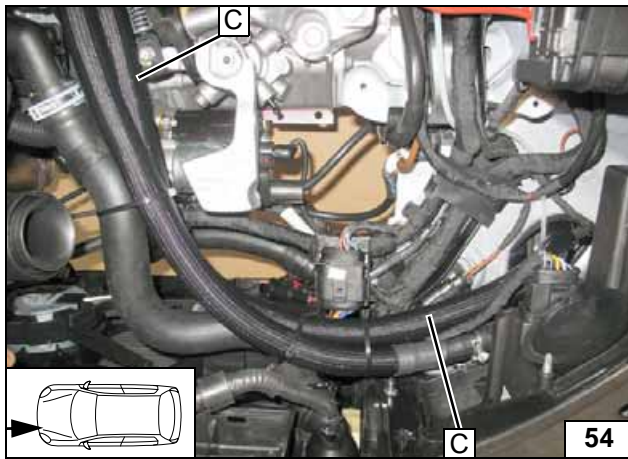
Routing in engine compartment



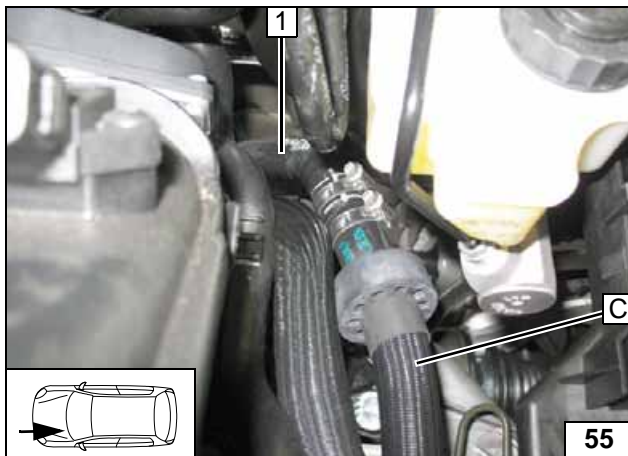
Combustion air silencer tied off for demonstration purposes.



Connecting heater

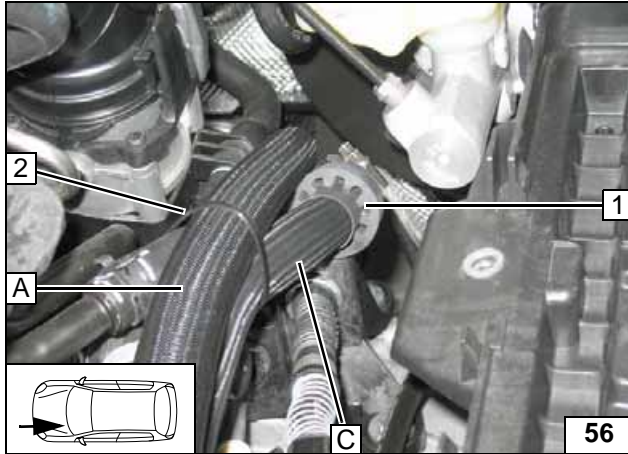
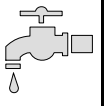


Routing in engine compartment



- 1 Hose on heat exchanger inlet
- 2 Original vehicle spring clip

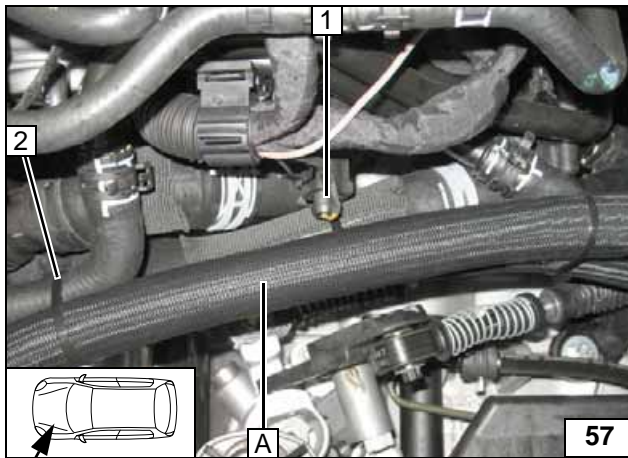
Connecting heat exchanger inlet



Align black (sw) rubber isolator 1 on the gear change bracket. Attach hose A and C to the original vehicle hose with cable tie 2.



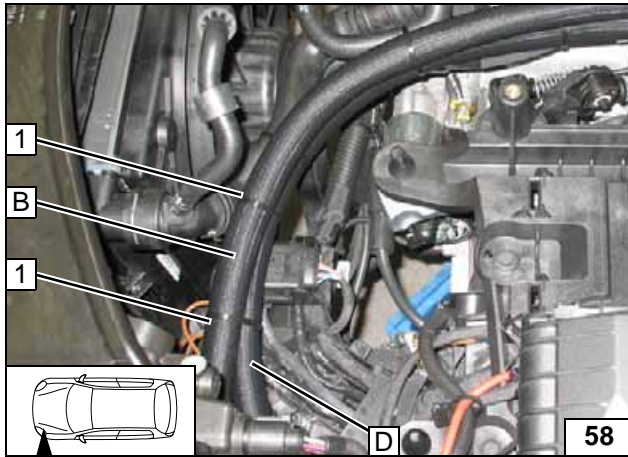
Routing in engine compartment



Align hoses and attach to the original vehicle hose with cable tie 2. Observe sufficient distance to connector 1, adjust if necessary.

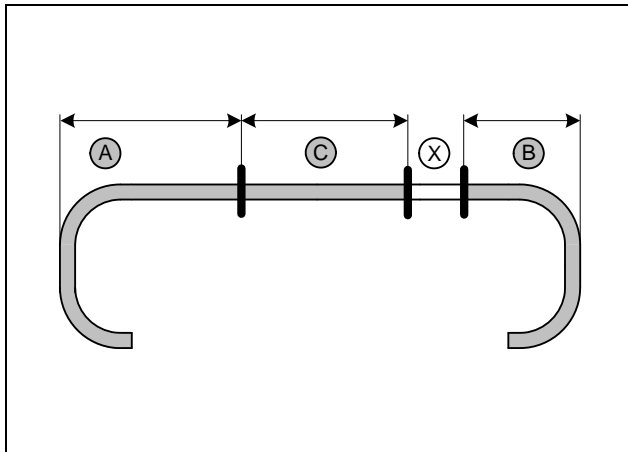


Fastening hoses



1 Cable tie [2x]

Fastening hoses



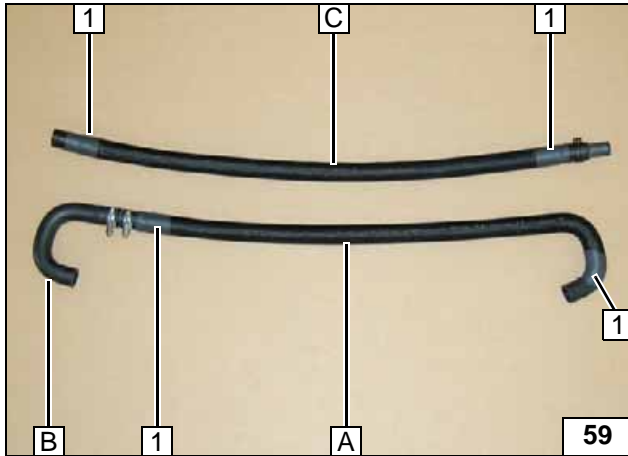
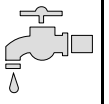
1.4 Automatic transmission

Discard section X.

- A = 670
- B = 120
- C = 700



Cutting hoses to length

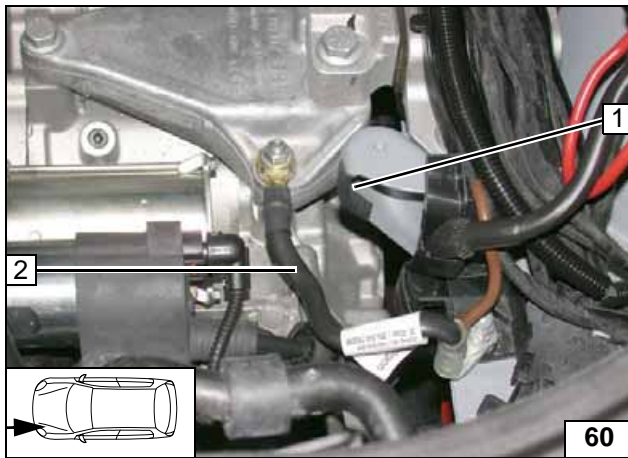


Push braided protection hoses onto hose **A** and **C**, cut to length and shrink.

1 Heat shrink plastic tubing [4x]

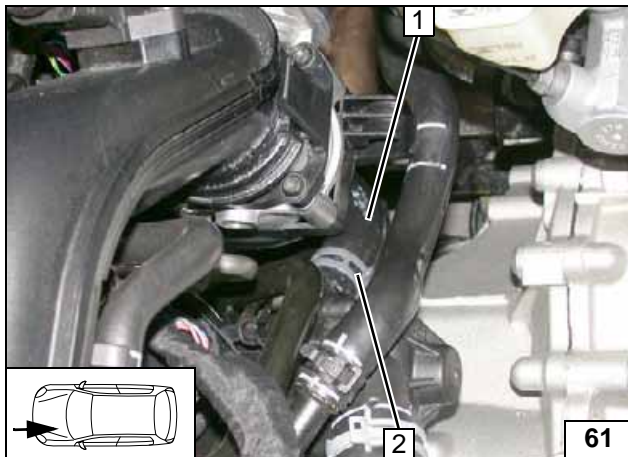


Premounting hoses



1 50 mm narrow edge protection
2 Straighten earth cable

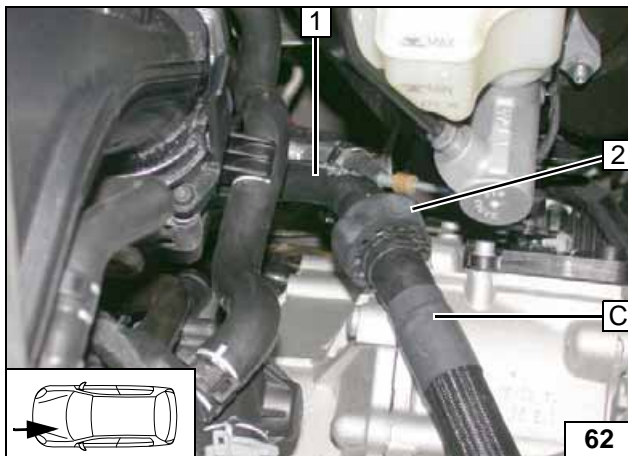
Installing edge protection



Disconnect hose to engine outlet/heat exchanger inlet **1** at connection piece of engine outlet. Spring clip **2** will be reused.

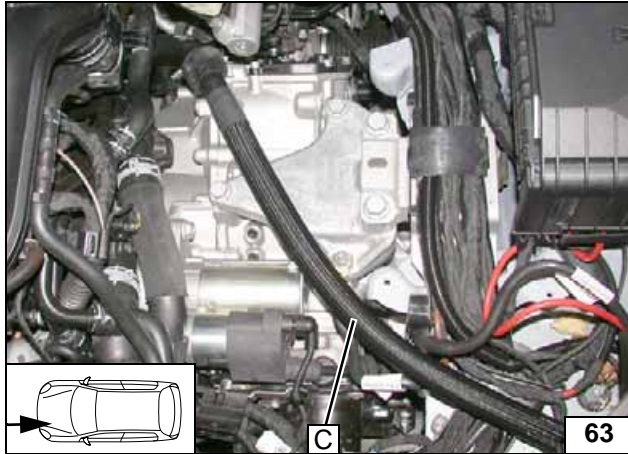
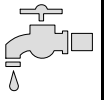


Cutting point

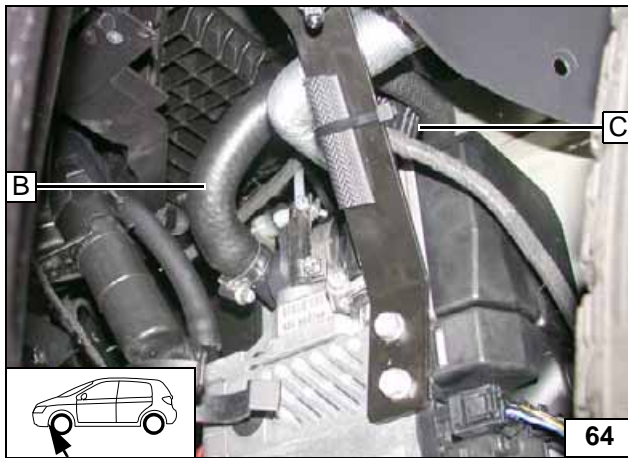


1 Hose on heat exchanger inlet
2 Black (sw) rubber isolator

Connecting heat exchanger inlet



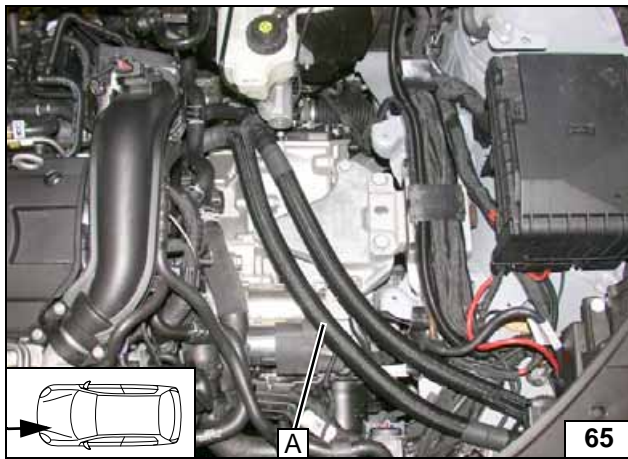
Routing in engine compartment



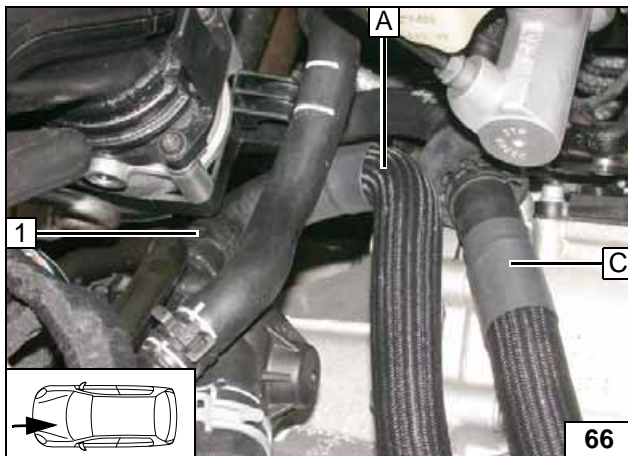
Combustion air silencer tied off for demonstration purposes.



Connecting heater



Routing in engine compartment

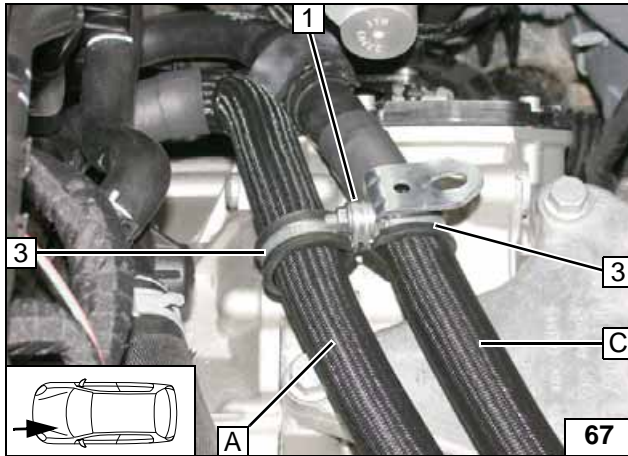


Install hose **A** on engine outlet connection piece with a 180° elbow.

1 Original vehicle spring clip

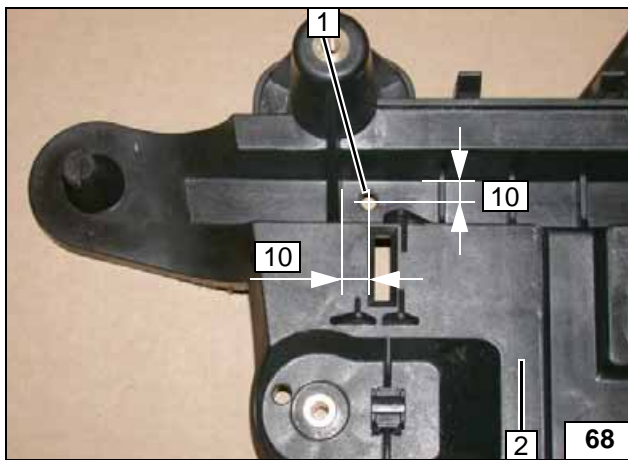


Connecting engine outlet



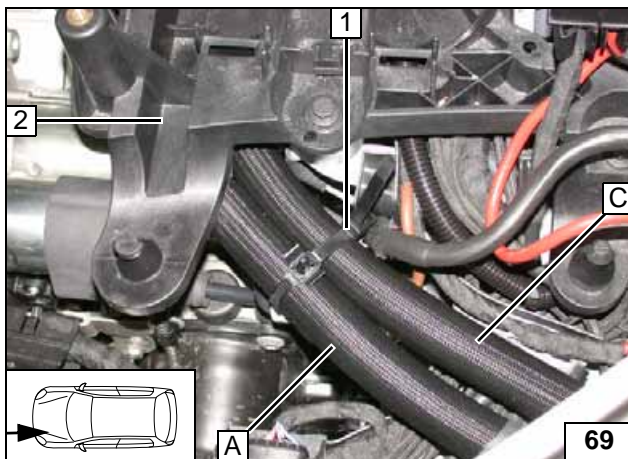
- 1 M6x20 bolt, flanged nut
- 2 Angle bracket
- 3 29 mm dia. rubber-coated p-clamp [2x]

Fastening hoses



- 1 6 mm dia. hole
- 2 Battery carrier

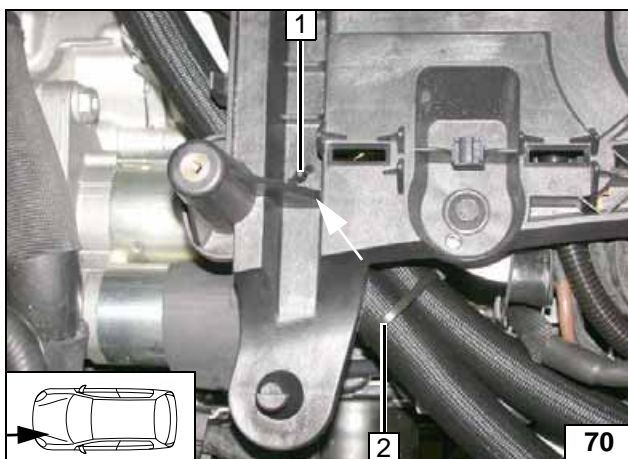
Preparing battery carrier



Install battery carrier 2. Loosely install clip-type cable tie 1 around hose A and C.



Fastening hoses

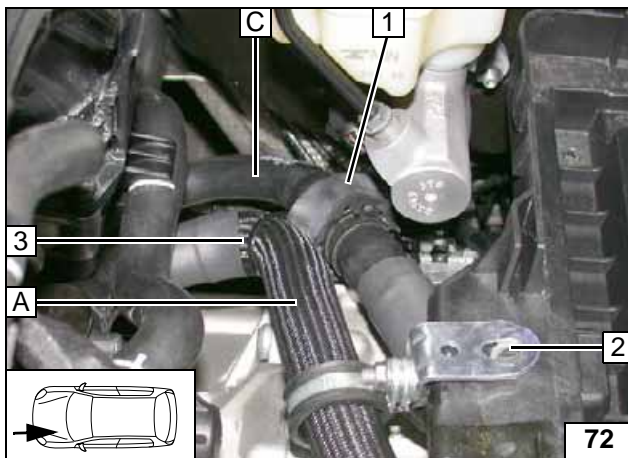
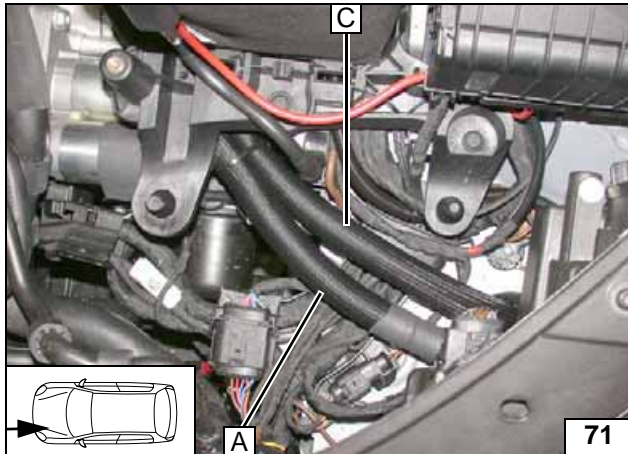
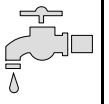


Shift clip-type cable tie under the battery carrier, insert in hole on position 1 and tighten.

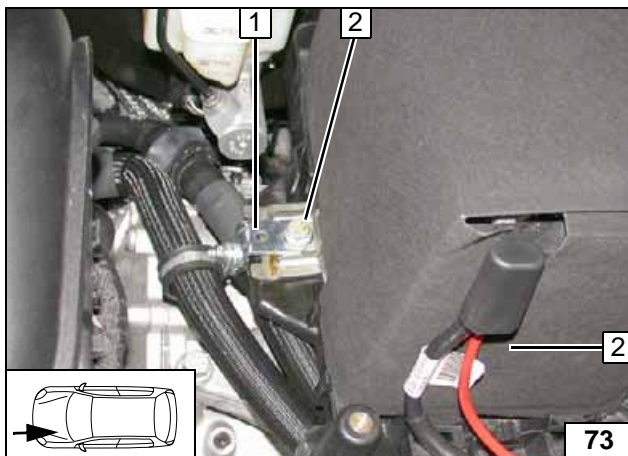


- 2 Cable tie

Fastening hoses



Attach black (sw) rubber isolator **1** with cable tie **3** to hose **A**. Align angle bracket at position **2** on original vehicle hole.



Install battery. Ensure sufficient distance to neighbouring components.

- 1 Angle bracket
- 2 Original vehicle bolt



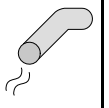
Aligning hoses



Fastening hoses



Fastening hoses



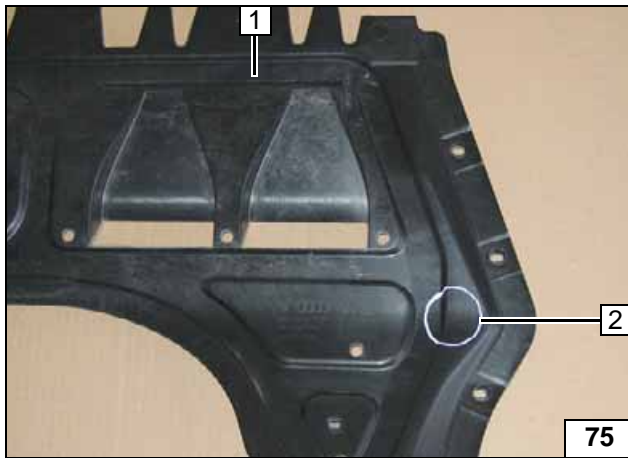
Exhaust gas

Align exhaust end section and rubber isolator. Ensure sufficient spacing of exhaust end section to transmission and to wheel well trim. (The figure shows the vehicle with automatic transmission)

- 1 Wheel well trim

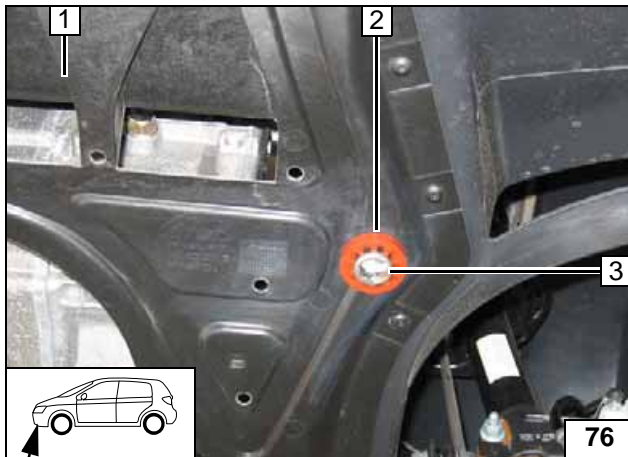


Installing wheel well trim



- 1 Underride protection
- 2 42 mm dia. hole

Hole in underride protection

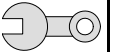


Align exhaust end section **3** flush on red rubber isolator **2**.

- 1 Underride protection



Mounting rubber isolator



Final Work

WARNING!

Reassemble the disassembled components in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Secure all loose lines using cable ties.

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 the digital timer.**
- **Make settings on A/C control panel according to the "Operating Instructions for End Customer".**
- **Place the "Switch off parking heater before refueling" signboard in the area of the filler neck**
- **Check the proper function of the parking heater, see the operating instructions/installation instructions.**
- **Proceed with the Webasto Thermo Test Diagnostics as follows at the initial start-up:**
 - Pump up fuel for heater under the pipeline filling button
 - CO₂- Check setting, adjustment values are listed in the General Installation Instructions
 - During the test run, check all water and fuel connections for leaks and firm seating
 - Conduct troubleshooting in case of any malfunctions



Adjust the sensitivity of the passenger compartment monitoring

WARNING!

Pass through 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.



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<http://www.webasto.com>

Operating Instructions for End Customer



Please remove page and add to the vehicle operating instructions.



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.

If the summer/winter switch option has been installed, it must be switched in accordance with the time of year. The heater will then heat in the position Winter  and in the position Summer  it will only switch on the vehicle fan to ventilate the vehicle interior.



Before parking the vehicle, make the following settings:



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

Climatic



- 1 Set temperature on both sides to "HI".

Climatronic