

# Thermo Top Evo Parking Heater



# Installation Documentation Seat Leon / Seat Leon 4Drive

## Validity

Manufacturer		Model	Туре	EG BE No. / ABE	
Seat		Leon	5F	e9 * 2007 / 46 * 0094 *	
Seat		Leon 4Drive	5F	e9 * 2007 / 46 * 0094 *	
Motorisation	Fuel	Transmission typ	e Output in kW	Displacement in cm <sup>3</sup>	Engine code
1.2 TSI	Petrol	5-speed SG	63	1197	CJZB
1.2 TSI	Petrol	6-speed SG	77	1197	CJZA
1.2 TSI	Petrol	DSG	77	1197	CJZA
1.4 TSI	Petrol	6-speed SG	90	1395	CMBA
1.4 TSI	Petrol	6-speed SG	103	1395	СРТА
1.8 TSI	Petrol	6-speed SG	132	1798	CJSA
1.8 TSI	Petrol	DSG	132	1798	CJSA
1.6 TDI	Diesel	5-speed SG	77	1598	CLHA
1.6 TDI	Diesel	DSG	77	1598	CLHA
1.6 TDI	Diesel	DSG	81	1598	CRKB
2.0 TDI	Diesel	6-speed SG	110	1968	CKFC
2.0 TDI	Diesel	6-speed SG	110	1968	CRMB
2.0 TDI	Diesel	6-speed SG	110	1968	CRLB
2.0 TDI	Diesel	DSG	110	1968	CKFC
2.0 TDI	Diesel	6-speed SG	135	1968	CUPA
2.0 TDI	Diesel	DSG	135	1968	CUPA

SG = manual transmission DSG = direct gear transmission

### From model year 2013 Left-hand drive vehicle

Verified equipment variants: Climatic / Climatronic

	Front fog lights
	Headlight washer system
	LED Headlight
	Full LED headlamps
	Xenon
	Start - Stop
	4Drive
Not verified:	Passenger compartment monitoring
Total installation time:	approx. 8 hours

## Seat Leon / Seat Leon 4Drive

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### **Necessary Components**

- Basic delivery scope of Thermo Top Evo based on price list
- Installation kit for Seat Leon / Seat Leon 4Drive 2013 Petrol and diesel: 1319063B
- To be ordered additionally in case of 1.8 TSI: Additional kit for exhaust system: 1321303A
- · Heater control in accordance with price list and upon consultation with end customer
- In case of Telestart, indicator lamp in accordance with price list and in consultation with end customer

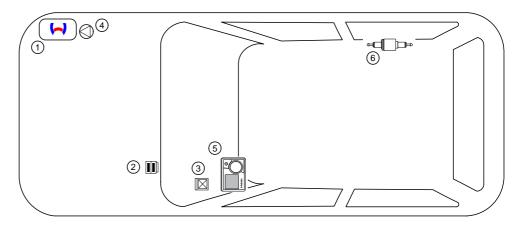
### Installation instructions:

- Arrange for the vehicle to be delivered with the tank only about 1/4 full.
- The installation location of the push button in case of Telestart or Thermo Call should be confirmed with the end customer.
- Depending on the space required and the vehicle manufacturer's instructions, we recommend the use of a vehicle battery with a higher electrical capacity.

## **Installation Overview**

### Legend:

- 1. Heater
- 2. Engine compartment fuse holder
- 3. LIN- Gateway
- 4. Circulating pump
- 5. MultiControl CAR
- 6. Metering pump



## Information on Total Installation Time

The total installation time includes the time needed for mounting and demounting the vehicle-specific components, the heater specific installation time and all other times required for the system integration and initial start-up of the heater.

The total installation time may vary for vehicle equipment other than provided.

## Information on Operating and Installation Instructions

#### 1 Important information (not complete)

#### 1.1 Installation and repair

The improper installation or repair of Webasto heating and cooling systems can cause fire or the leakage of deadly carbon monoxide, leading to serious injury or death.

To install and repair Webasto heating and cooling systems you need to have completed a special company training course and have the appropriate technical documentation, special tools and special equipment.

Installation and repair may ONLY be carried out by persons trained and certified in a Webasto training course. NEVER try to install or repair Webasto heating or cooling systems if you have not completed a Webasto training course, you do not have the necessary technical skills and you do not have the technical documentation, tools and equipment available to ensure that you can complete the installation and repair work properly.

Only use genuine Webasto parts. See the Webasto air and water heaters accessories catalogue for this purpose.

#### 1.2 Operation

To ensure safe operation, we recommend having the heater checked every two years by an authorised Webasto dealer, especially when used over a long period and/or under extreme environmental conditions.

Do not operate the heater in closed rooms due to the danger of poisoning and suffocation.

Always switch off the heater before refuelling.

The heater may only be used with the prescribed fuel diesel (DIN EN 590) or petrol (DIN EN 228).

The heater may not be cleaned with a high-pressure cleaner.

#### 1.3 Please note

ALWAYS follow all Webasto installation and operating instructions and observe all warnings.

To become familiar with and understand all functions and properties of the heater, the operating instructions must be read carefully and observed at all times.

For proper, safe installation and repair work, the installation instructions with all warnings and safety information must be carefully read and observed at all times. Please always contact a workshop authorised by Webasto for all installation and repair work.

#### Important

Webasto shall assume no liability for defects, damage and injuries resulting from a failure to observe the installation, repair and operating instructions of the information contained in them.

This liability exclusion particularly applies to improper installations and repairs, installations and repairs by untrained persons or in the case of a failure to use genuine spare parts.

The liability due to culpable disregard to life, limb or health and due to damage or injuries caused by a wilful or reckless breach of duty remain unaffected, as does the obligatory product liability.

Installation should be carried out according to the general, standard rules of technology. Unless specified otherwise, fasten hoses, lines and wiring harnesses or original vehicle lines and wiring harnesses using cable ties. Insulate loose wire ends and the back. Connectors on electronic components must audibly snap into place during assembly.

Sharp edges should be fitted with rub protection. Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K).

Observe the instructions and guidelines of the respective vehicle manufacturer for demounting and mounting vehicle specific components!

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

When installing a programmable control module (e.g. a PWM Gateway), the corresponding settings must be checked or adjusted.

#### 2 Statutory regulations governing installation

Guidelines	Thermo Top Evo
Heating Directive ECE R122	E1 00 0258
EMC Directive ECE R10	E1 04 5627

#### Note

The regulations of these guidelines are binding in the scope of the Directive 70/156/EEC and/or 2007/46/EC (for new vehicle models from 29/04/2009) and should also be observed in countries in which there are no special regulations.

#### Important

Failure to follow the installation instructions will result in the invalidation of the type approval for the heater and therefore invalidation of the general **homologation of the vehicle**.

#### Note

The heater is licensed in accordance with paragraph 19, section 3, No. 2b of the StV-ZO (German Road Traffic Licensing Authority).

# 2.1 Excerpt from ECE regulation 122 (heating system) paragraph 5 for the installation of the heater

Beginning of excerpt.

#### **ANNEX VII**

#### REQUIREMENTS FOR COMBUSTION HEATERS AND THEIR INSTALLATION

#### 1. GENERAL REQUIREMENTS

1.7.1. A clearly visible tell-tale in the operator's field of view shall inform when the combustion heater is switched on or off.

#### VEHICLE INSTALLATION REQUIREMENTS

#### 2.1. Scope

2.

- 2.1.1. Subject to paragraph 2.1.2. combustion heaters shall be installed according to the requirements of this Annex.
- 2.1.2. Vehicles of category O having liquid fuel heaters are deemed to comply with the requirements of this Annex.

#### 2.2. Positioning of heater

- 2.2.1. Body sections and any other components in the vicinity of the heater must be protected from excessive heat and the possibility of fuel or oil contamination.
- 2.2.2. The combustion heater shall not constitute a risk of fire, even in the case of overheating. This requirement shall be deemed to be fulfilled if the installation ensures an adequate distance to all parts and suitable ventilation, by the use of fire resistant materials or by the use of heat shields.
- 2.2.3. In the case of M2 and M3 vehicles, the heater must not be positioned in the passenger compartment. However, an installation in an effectively sealed envelope which also complies with the conditions in paragraph 2.2.2 may be used.
- 2.2.4. The label referred to in paragraph 1.4 or a duplicate, must be positioned so that it can be easily read when the heater is installed in the vehicle.
- 2.2.5. Every reasonable precaution should be taken in positioning the heater to minimise the risk of injury and damage to personal property.

#### 2.3. Fuel supply

- 2.3.1. The fuel filler must not be situated in the passenger compartment and must be provided with an effective cap to prevent fuel spillage.
- 2.3.2. In the case of liquid fuel heaters, where a supply separate to that of the vehicle is provided, the type of fuel and its filler point must be clearly labelled.
- 2.3.3. A notice, indicating that the heater must be shut down before refuelling, must be affixed to the fuelling point. In addition a suitable instruction must be included in the manufacturer's operating manual.

#### 2.4. Exhaust system

2.4.1. The exhaust outlet must be located so as to prevent emissions from entering the vehicle through ventilators, heated air inlets or opening windows.

#### 2.5. Combustion air inlet

2.5.1. The air for the combustion chamber of the heater must not be drawn from the passenger compartment of the vehicle.

2.5.2. The air inlet must be so positioned or guarded that blocking by rubbish or luggage is unlikely.

#### 2.6. Heating air inlet

- 2.6.1. The heating air supply may be fresh or recirculated air and must be drawn from a clean area not likely to be contaminated by exhaust fumes emitted either by the propulsion engine, the combustion heater or any other vehicle source.
- 2.6.2. The inlet duct must be protected by mesh or other suitable means.

#### 2.7. Heating air outlet

- 2.7.1. Any ducting used to route the hot air through the vehicle must be so positioned or protected that no injury or damage could be caused if it were to be touched.
- 2.7.2. The air outlet must be so positioned or guarded that blocking by rubbish or luggage is unlikely.

End of excerpt.

In multilingual versions the German language is binding.



## Seat Leon / Seat Leon 4Drive

## Information on Validity

This installation documentation applies to Seat Leon / Seat Leon 4Drive Petrol and diesel vehicles - for validity, see page 1 - from model year 2013 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'.

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

## **Technical Information**

### **Special Tools**

- · Hose clamp pliers for auto-tightening hose clamps
- · Hose clamp pliers for Clic hose clamps of type W
- Automatic wire stripper 0.2 6mm<sup>2</sup>
- Crimping pliers for cable lug / tab connector 0.5 6mm<sup>2</sup>
- Torque wrench for 2.0 10 Nm
- Hose clamping pliers
- · Metric thread-setter kit
- · Webasto Thermo Test Diagnosis with current software

### Dimensions

• All dimensions are in mm.

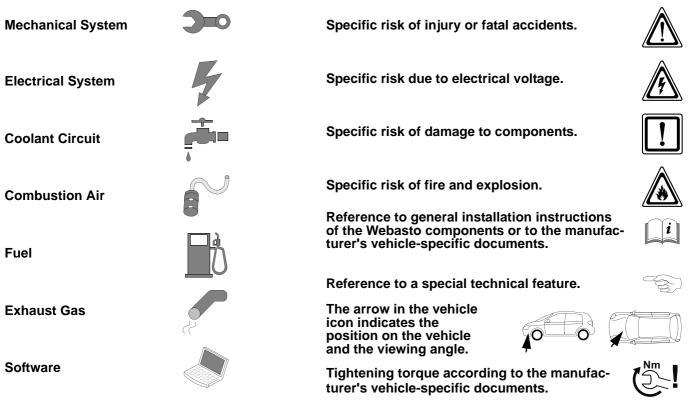
### **Tightening torque values**

- Tightening torque values of 5x13 heater bolts and 5x11 heater stud bolts = 8Nm.
- Tightening torque value of 5x15 water connection piece retaining plate bolt = 7Nm.
- Tighten other bolt connections in accordance with manufacturer's instructions or in accordance with state-of-theart-technology.

## **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.

Special features are highlighted using the following symbols:



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Status: 30.03.2016

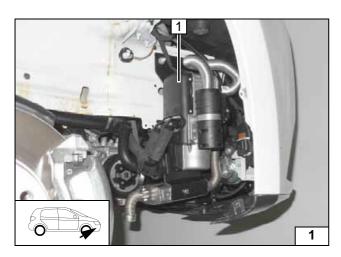
## **Preliminary Work**

### Vehicle

- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- Depressurise the cooling system.
- Disconnect and remove the battery completely together with the carrier.
- Completely remove the air filter box together with the intake hose of the radiator (TDI only).
- Remove the right underride protection.
- Remove the lower engine cover.
- Remove the fuel tank underride protection if present.
- Remove the right front wheel.
- Remove the front right wheel well trim.
- Completely remove the horns with the bracket (depending on equipment variant).
- Remove the lateral instrument panel trim on the driver's side.
- Remove the lower instrument panel trim on the driver's side.
- Remove the A-pillar trim on the driver's side.
- Remove the footwell trim on the front passenger's side.
- Remove the rear seats.
- Open the right-hand tank-fitting service lid.
- Remove the fuel tank sending unit in accordance with the manufacturer's instructions.

#### Heater

- Remove years that do not apply from the type and duplicate label.
- Attach the duplicate label (type label) visibly in the appropriate place in the engine compartment.



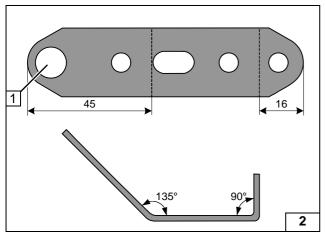
## **Heater Installation Location**

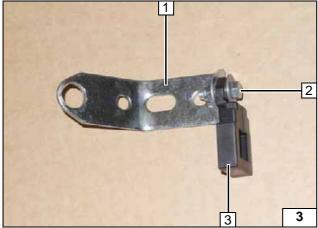
1 Heater

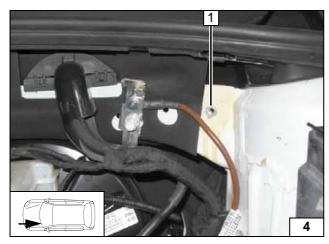
Installation location

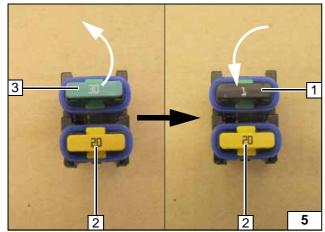


bracket









## **Preparing Electrical System**

Wire sections retain their numbering in the entire document.

Produce all following electrical connections as shown in the wiring diagram. **Preparing** perforated

- 1 12.5mm dia. hole
- 1 Perforated bracket
- 2 M5x16 bolt, washer [2x], nut
- **3** Fuse holder retaining plate

Premounting engine compartment fuse holder

1 Drill out existing hole to 9.1mm dia.; rivet nut

Installing rivet nut

Replace 30A passenger compartment main fuse F2  ${f 3}$  with 1A  ${f 1}$ .

2 20A heater fuse F1



Preparing engine compartment fuses



## **Electrical System**

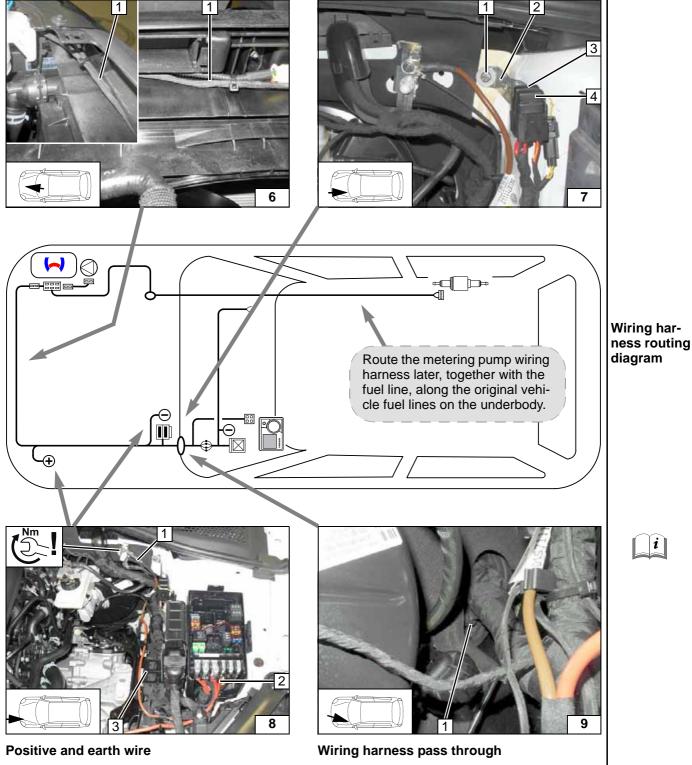
### Wiring harness routing

Route wiring harness of heater **1** along original vehicle wiring harness to the installation location of the heater and fasten it using cable ties.

### Engine compartment fuse holder

- 1 M6x20 bolt, large diameter washer
- 2 Perforated bracket
- **3** Replace 30A fuse F2 with 1A fuse.
- 4 Fuse F1



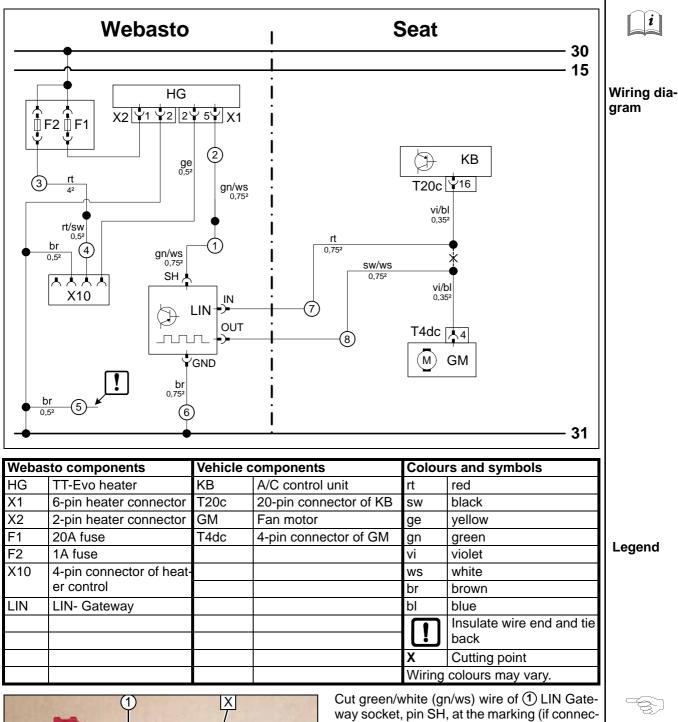


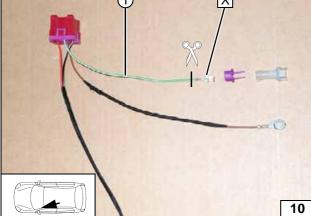
- 1 Earth wire on original vehicle earth point
- **2** Positive wire on positive distributor
- 3 Wiring harnesses in original vehicle line duct

Route heater wiring harnesses and heater control through protective rubber plug **1** to the passenger compartment.



## **Fan Controller**

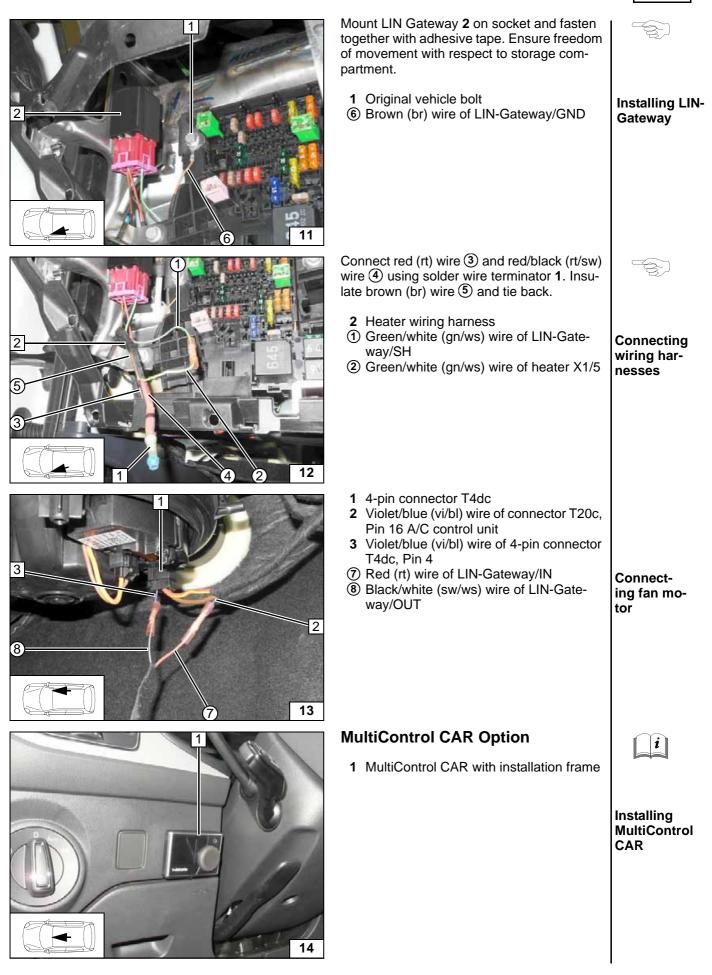




tor premounted). Discard section X and connector.

Preparing wiring harness

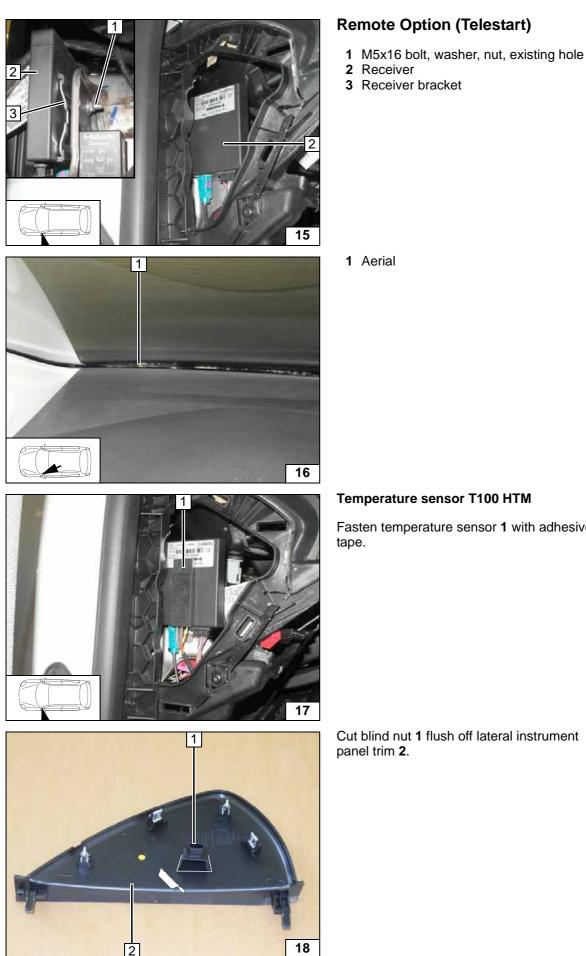




## Seat Leon / Seat Leon 4Drive



i

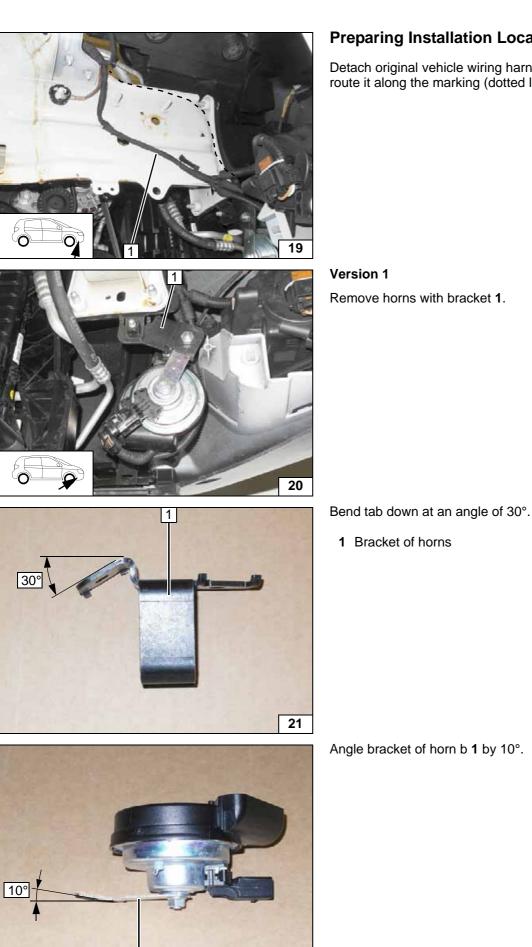


Receiver Receiver bracket	Installing
Aerial	Installing aerial
perature sensor T100 HTM en temperature sensor 1 with adhesive	i
	Installing tempera- ture senso
olind nut <b>1</b> flush off lateral instrument I trim <b>2</b> .	

lling erasensor

Preparing lateral instrument panel trim







Detach original vehicle wiring harness **1** and route it along the marking (dotted line).

Aligning wiring harness

Removing horns

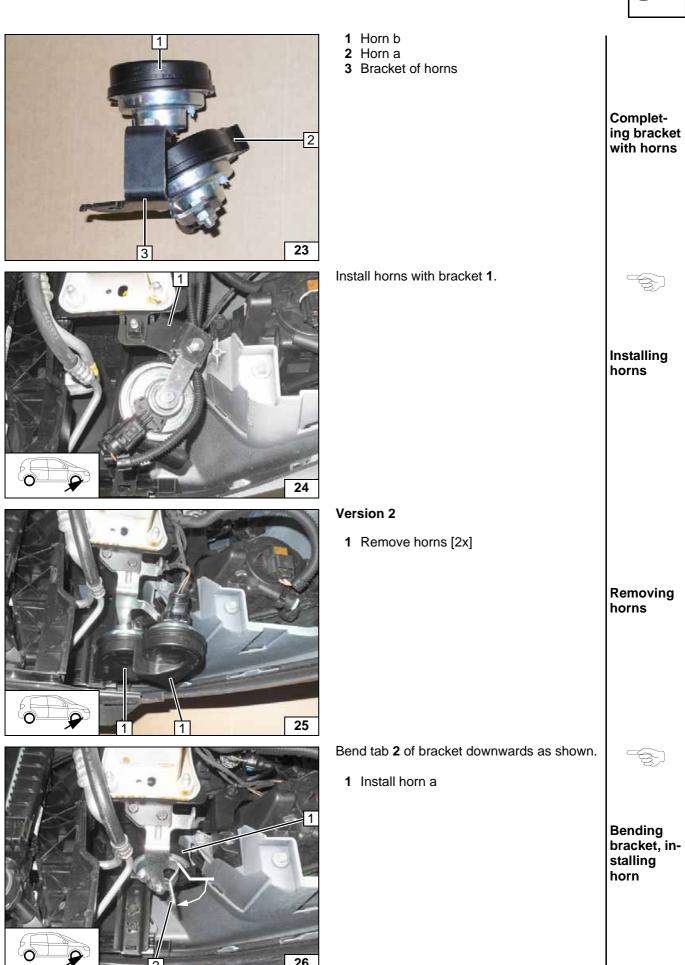
Bending bracket at an angle

Bending bracket at an angle

1

22



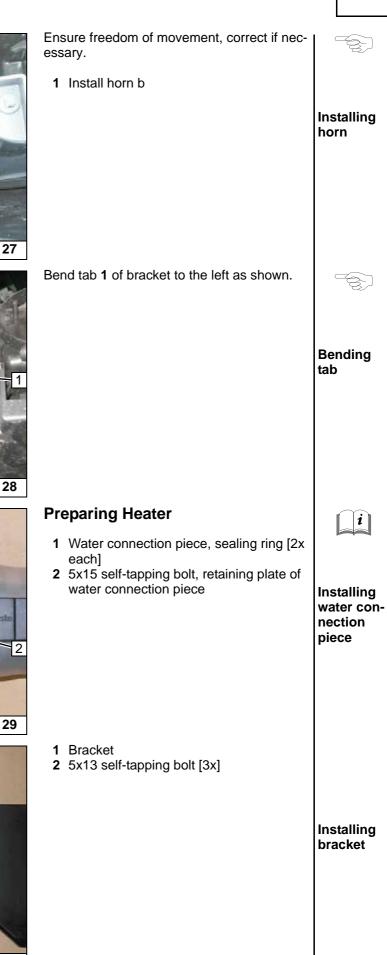


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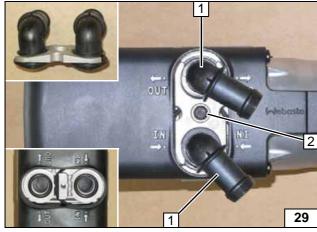
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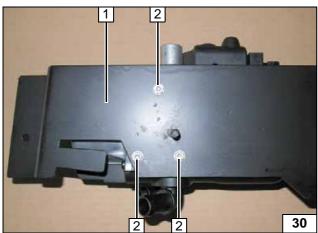
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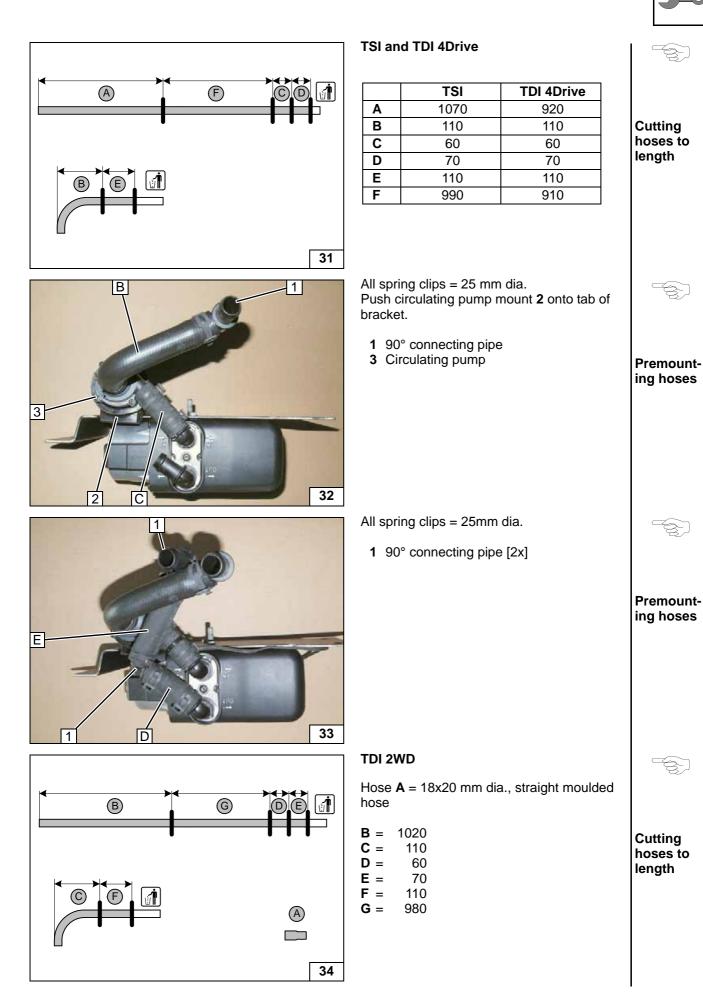








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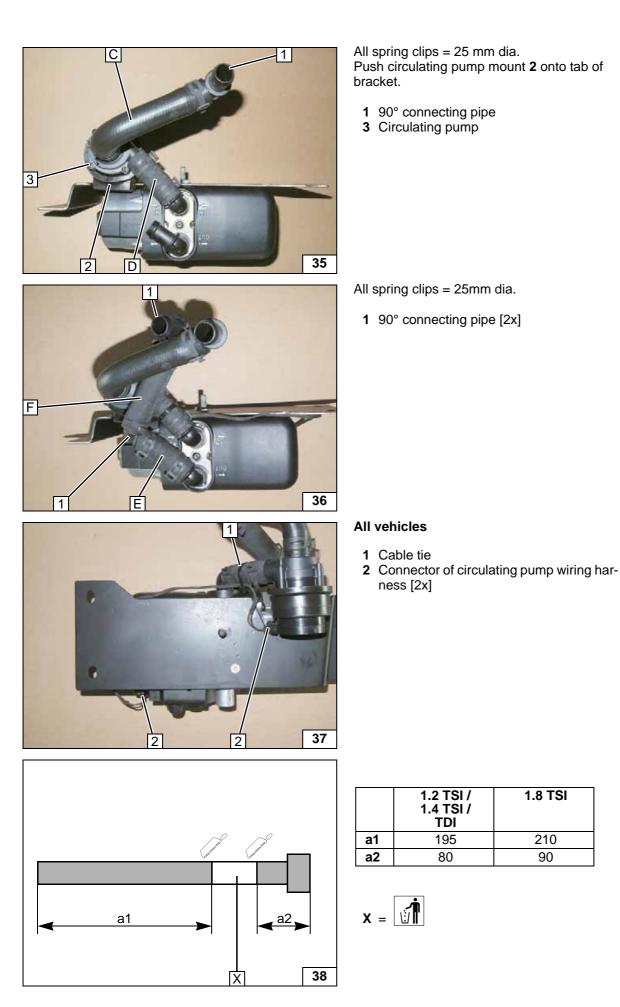
Premounting hoses

Premounting hoses

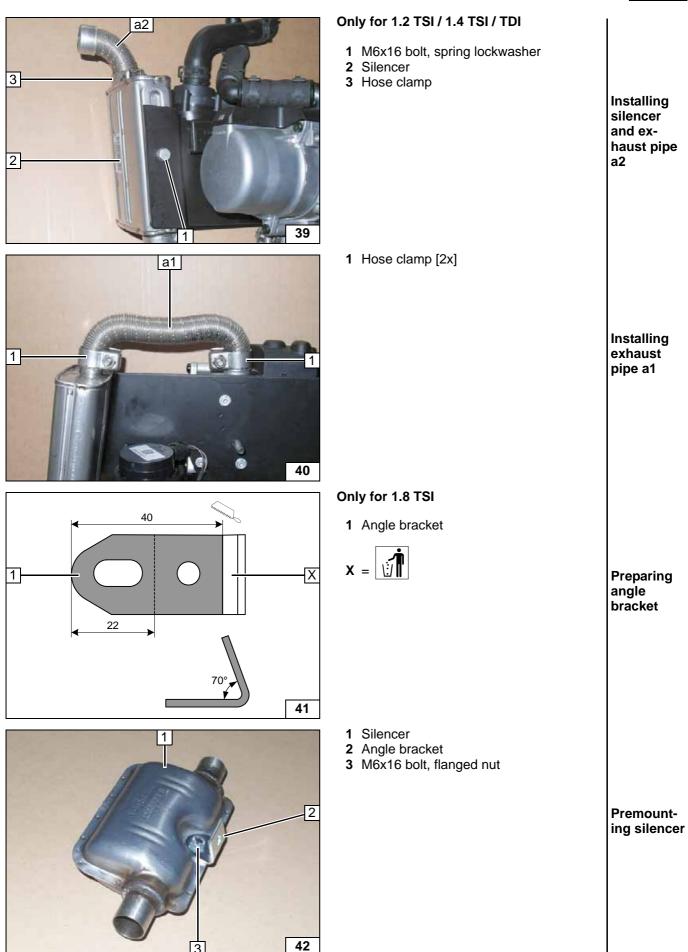
Installing wiring harness

Preparing ex-

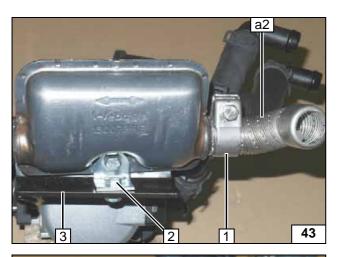
haust pipe

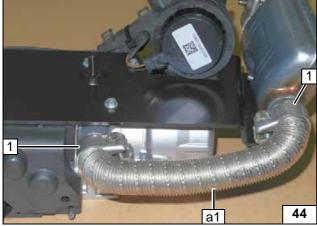


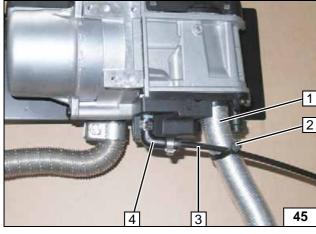


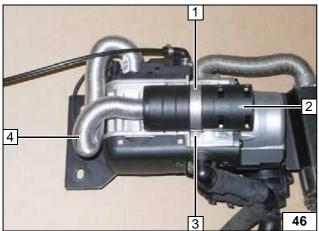


### Seat Leon / Seat Leon 4Drive









- Hose clamp
  M6x12 bolt, flanged nut
  Heater bracket

Installing silencer / exhaust pipe a2

1 Hose clamp [2x]

# Installing exhaust pipe a1

All vehicles

- 1 Combustion air pipe
- 2 Cable tie
- 3 Fuel line
- 4 90° short moulded hose, 10 mm dia. clamp [2x]

- 1 51mm dia. clamp
- 2 Combustion air silencer
- **3** 5x13 self-tapping bolt
- 4 Combustion air pipe

Premounting combustion air pipe and fuel line

*i*]

Premounting combustion air silencer



Installing wiring harness

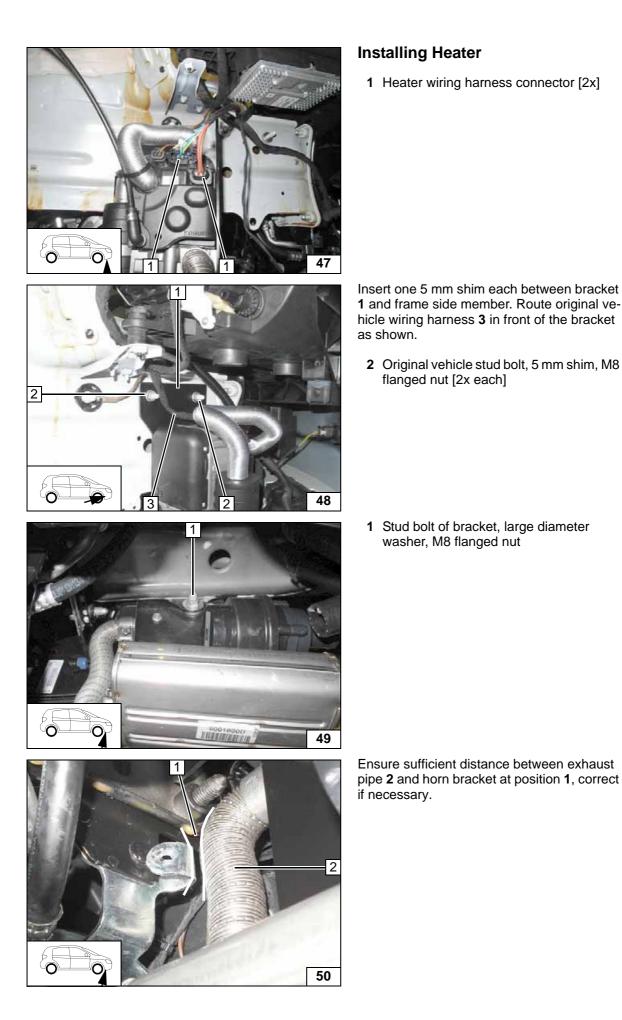
Installing

Installing heater

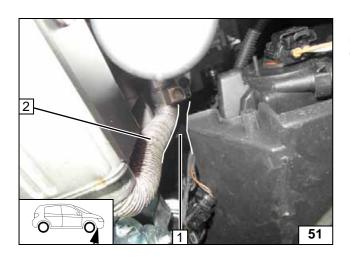
Aligning exhaust

pipe

heater







Ensure sufficient distance between exhaust pipe **2** and front fog lights trim at position **1**, correct if necessary.



Aligning exhaust pipe

### Fuel

### **CAUTION!**

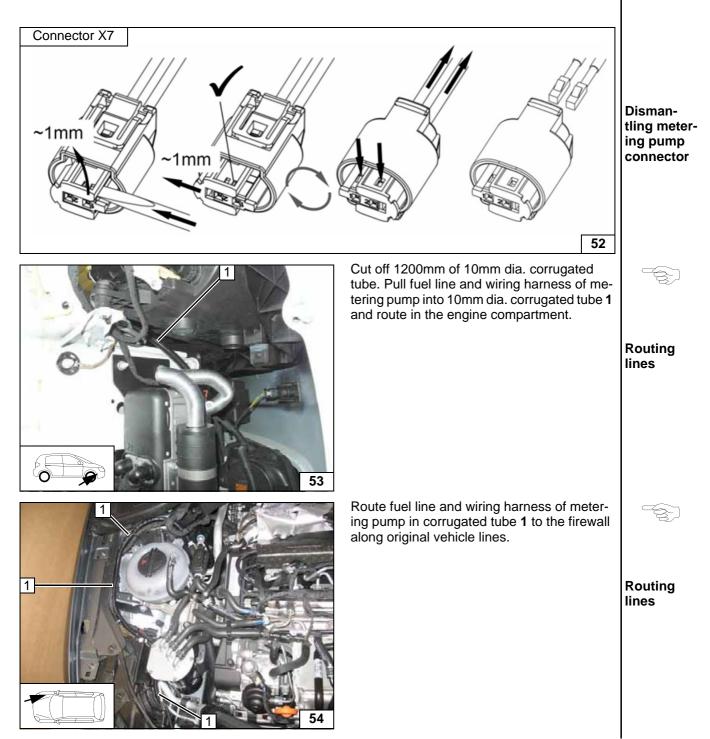
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

Catch any fuel running off in an appropriate container.

Route fuel line and metering pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties. Provide rub protection for fuel line and wiring harness in areas where there are sharp edges.

### WARNING!

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

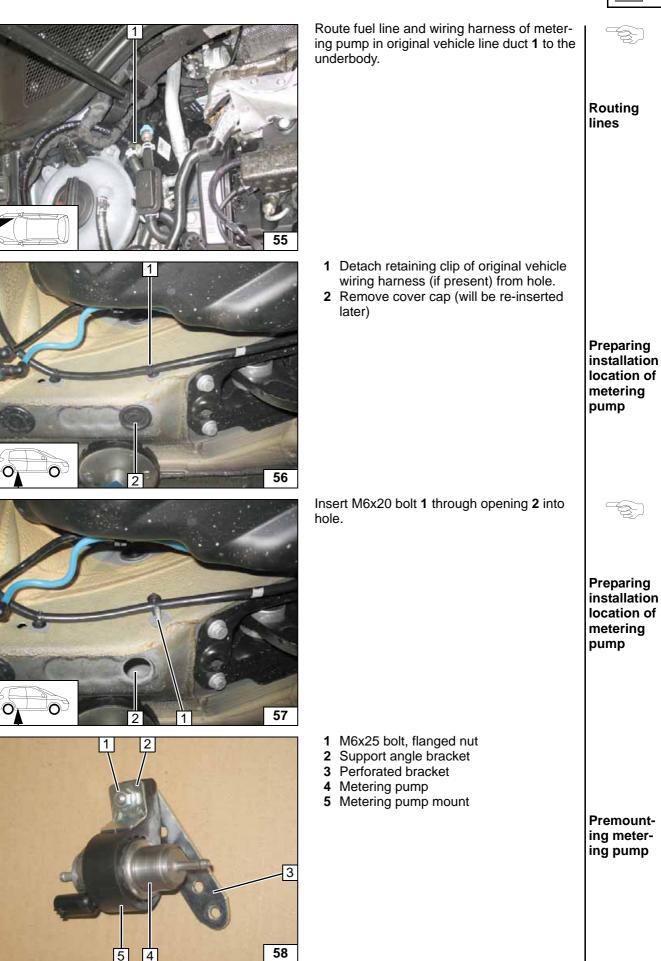




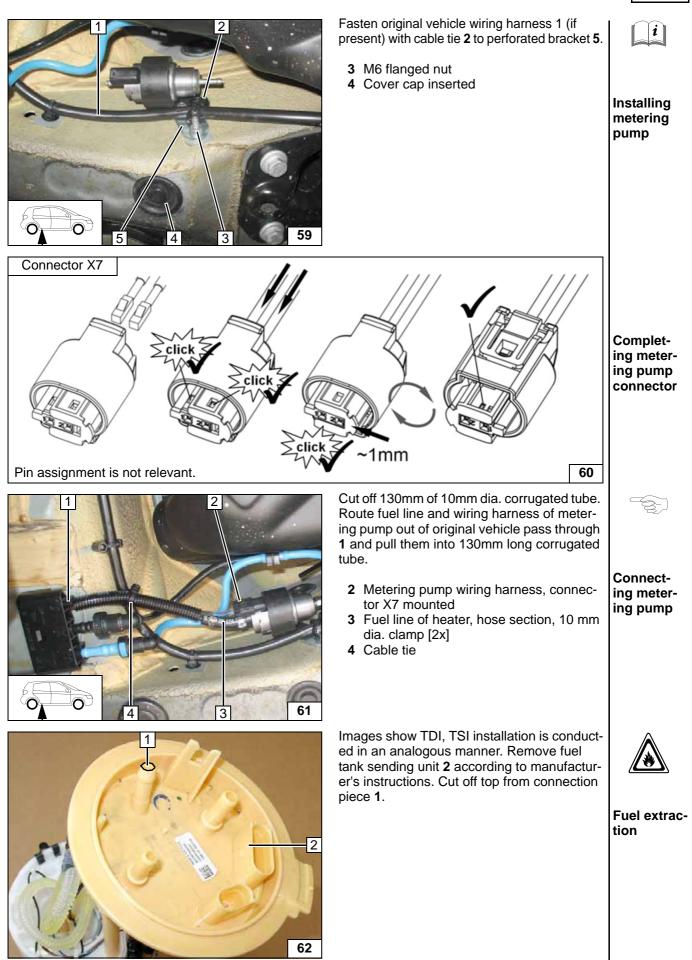




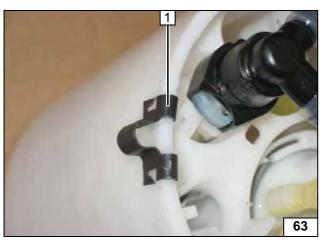


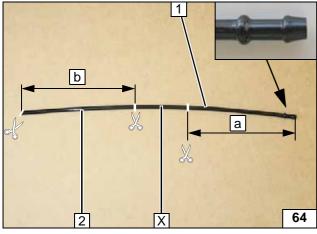


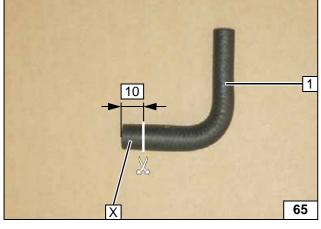


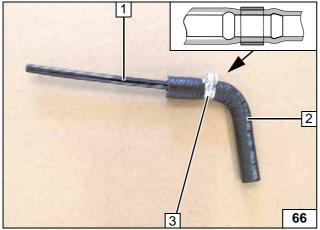












Slightly bend open retaining clamp **1** and install onto fuel tank sending unit.

Inserting retaining clamp

Cutting standpipes to length

Obliquely cut off standpipe B 2 at the end.

1 Standpipe A

	TSI	TDI
а	120	140
b	130	140

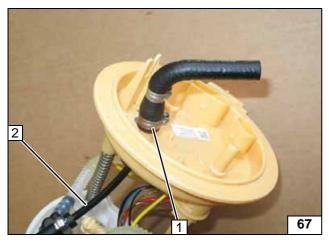
X =

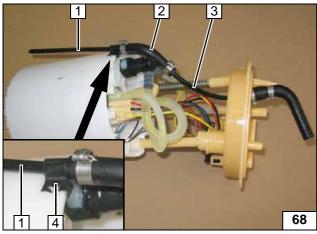
1 90°, 4.5x10.5mm dia. moulded hose

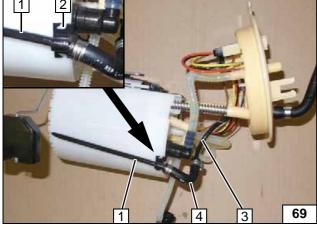
Cutting moulded hose to length

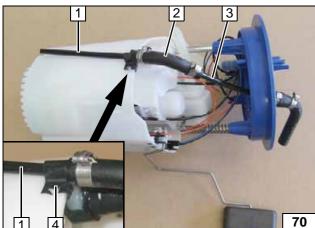
- 1 Standpipe A
- 2 90°, 4.5x10.5mm dia. moulded hose
- 3 10 mm dia. clamp

Premounting moulded hose







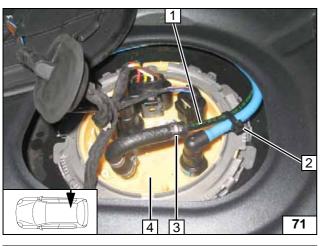


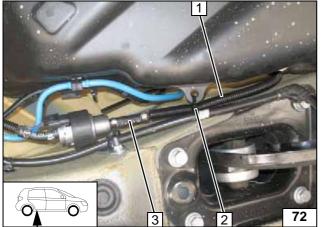
2 Standpipe A Installing standpipe A Figure shows TDI 2WD. Insert standpipe B 1 through retaining clamp 4. 2 90° moulded hose, 10mm dia. clamp [2x] 3 Standpipe A Installing standpipe B Figure shows TDI 4Drive. Insert standpipe B 1 through retaining clamp 2. 3 Standpipe A 4 90° moulded hose, 10mm dia. clamp [2x] Installing standpipe B Figure shows TSI. Insert standpipe B 1 through retaining clamp 4. 2 90° moulded hose, 10mm dia. clamp [2x] 3 Standpipe A Installing standpipe B

1 13.5 mm dia. clamp









Install fuel tank sending unit **4** in accordance with manufacturer's instructions.

- 1 Fuel line
- 2 Cable tie
- 3 10 mm dia. clamp



Connecting fuel line

Slide 10 mm dia. corrugated tube **1** onto fuel line. Check the position of the components; adjust if necessary. Check that they have freedom of movement.

- 2 Cable tie
- **3** Fuel line, hose section, 10 mm dia. clamp [2x]

i



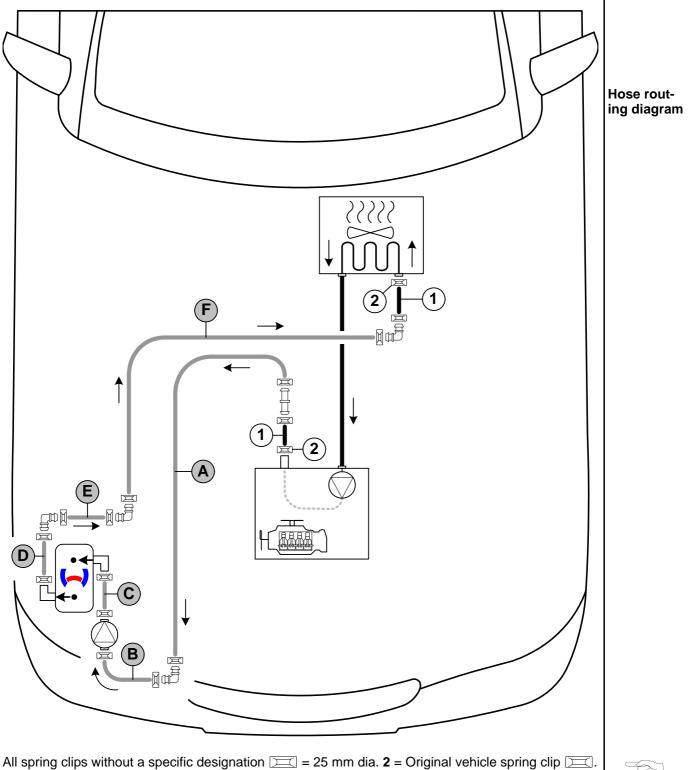


## **Coolant Circuit of TSI**

### WARNING!

Any coolant running off should be collected in an appropriate container. Route hoses 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.

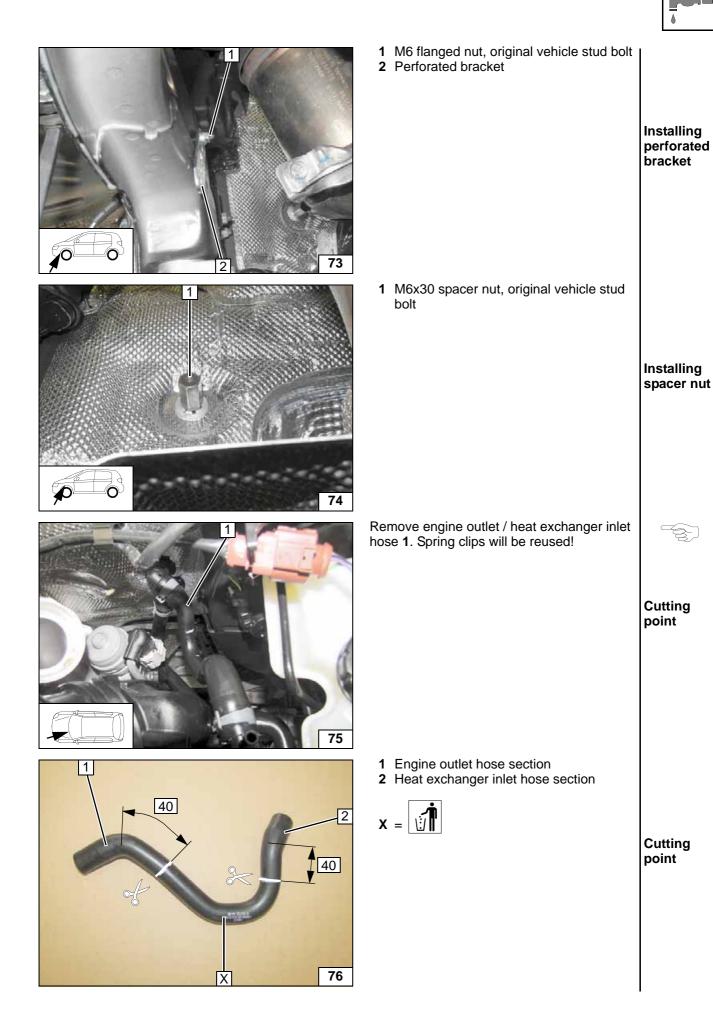
The connection should be modelled on an 'inline' circuit and based on the following diagram:



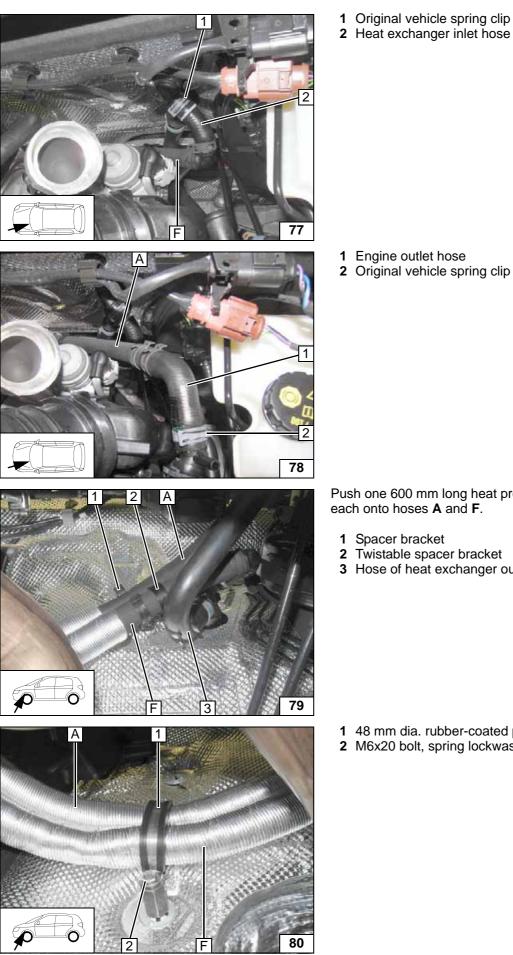
**1** = Original vehicle hose All connecting pipes  $\square$  and  $\square$  = 18x18 mm dia.

### Seat Leon / Seat Leon 4Drive









**Connect**ing heat exchanger inlet

**Connect**ing engine outlet

Push one 600 mm long heat protection hose

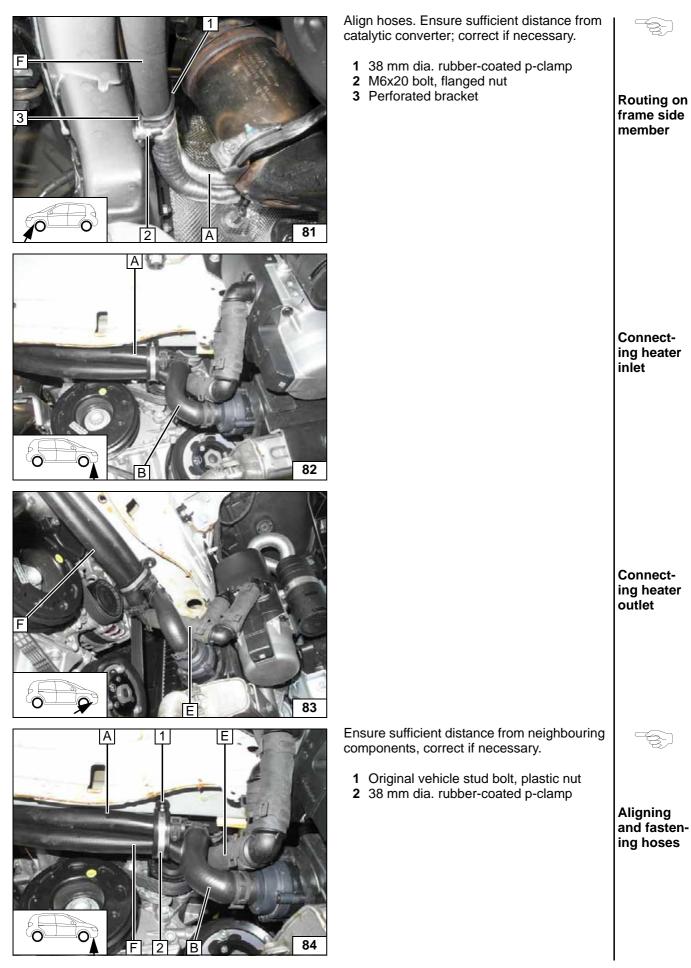
3 Hose of heat exchanger outlet

- 1 48 mm dia. rubber-coated p-clamp
- 2 M6x20 bolt, spring lockwasher

**Fastening on** firewall

Routing on firewall





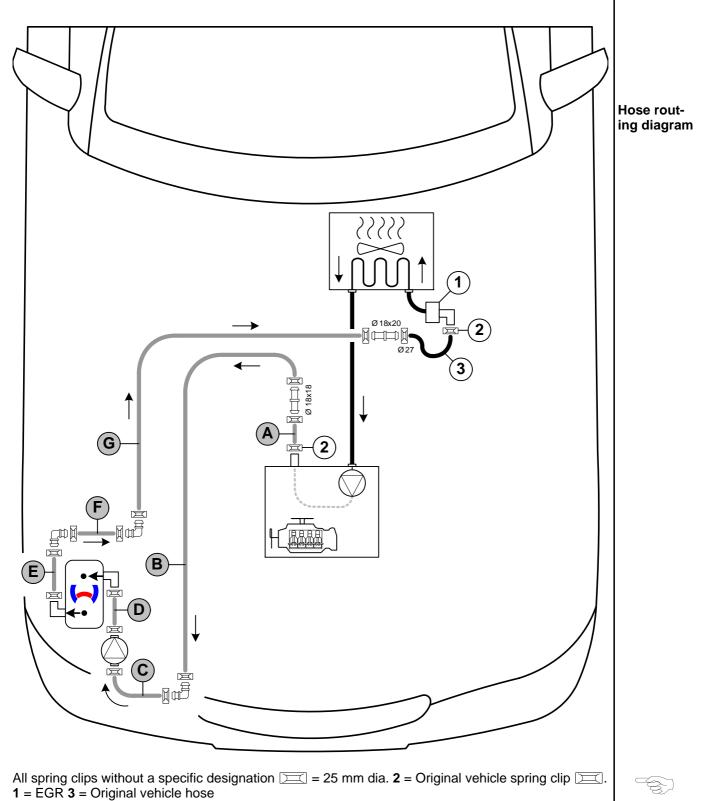


## **Coolant Circuit of TDI 2WD**

### WARNING!

Any coolant running off should be collected in an appropriate container. Route hoses 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 modelled on an 'inline' circuit and based on the following diagram:



All connecting pipes  $\square$  = 18x18 mm dia.

### Seat Leon / Seat Leon 4Drive



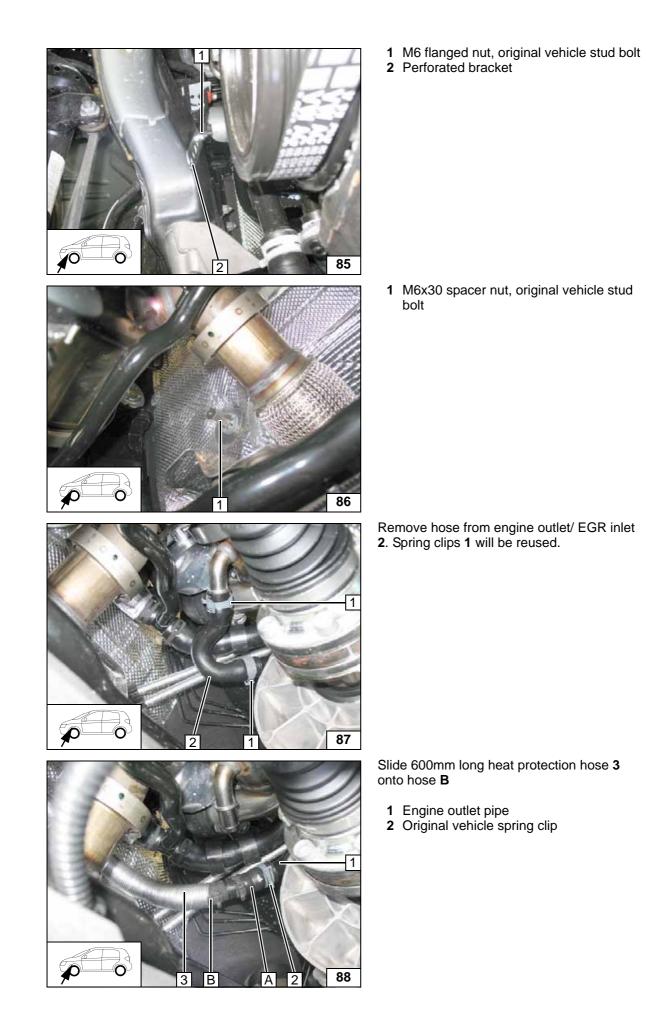
Installing perforated bracket

Installing spacer nut

Cutting point

Connecting engine

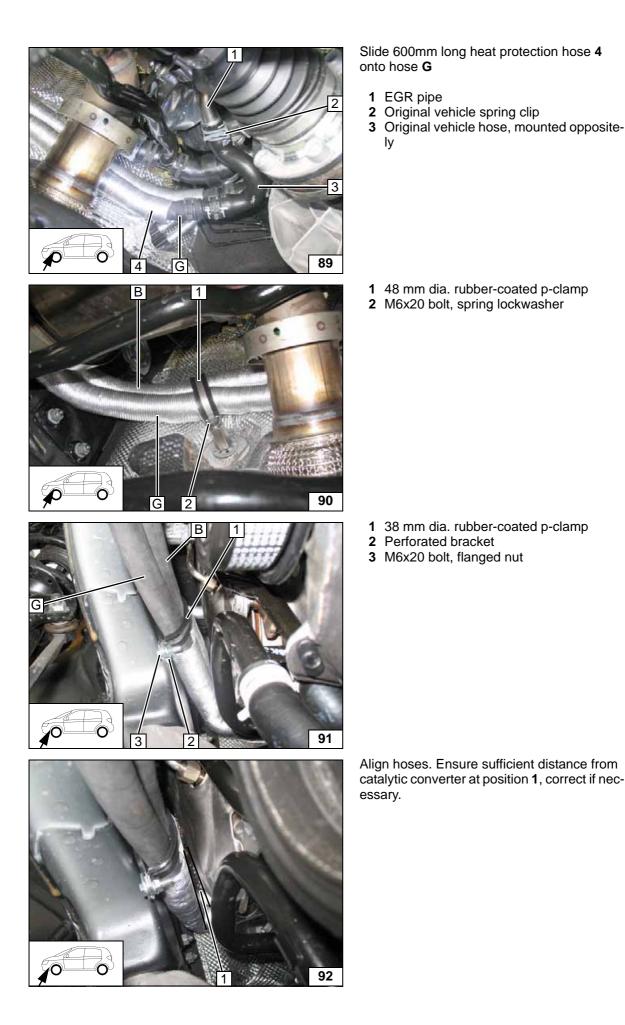
outlet





**Connect-**

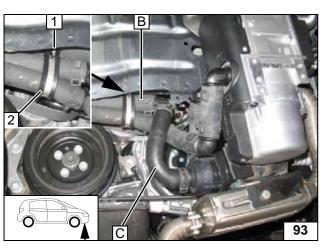
ing heat exchanger inlet

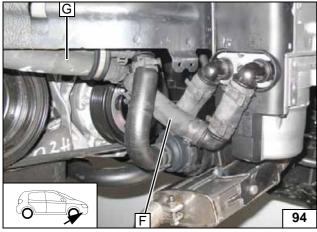


Fastening on firewall Routing on frame side member

Routing in engine compartment







- Original vehicle stud bolt, plastic nut
  38 mm dia. rubber-coated p-clamp
- Connecting heater inlet

Align hoses. Ensure sufficient distance from neighbouring components, correct if necessary.



Connecting heater outlet

Ident. No.: 1319064H\_EN

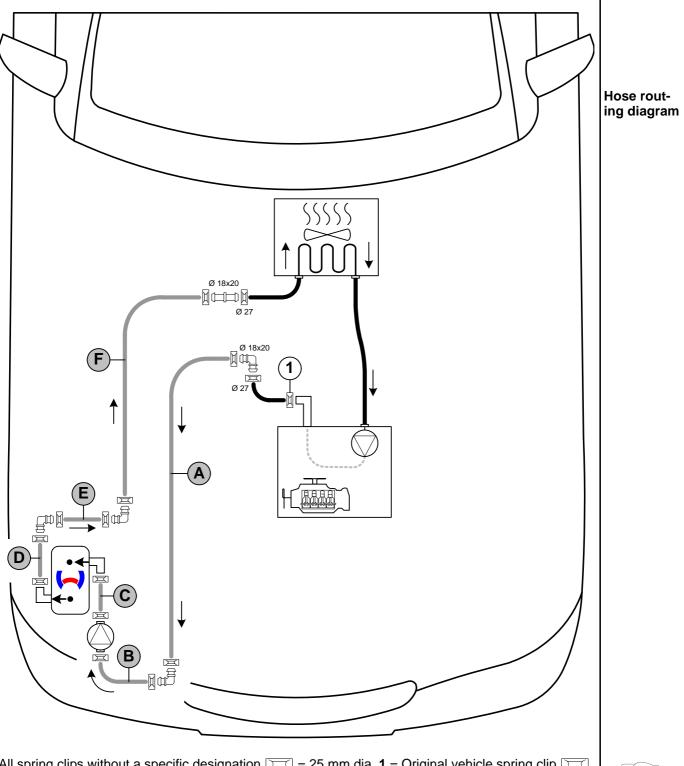


## **Coolant Circuit of TDI 4Drive**

### WARNING!

Any coolant running off should be collected in an appropriate container. Route hoses 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 modelled on an 'inline' circuit and based on the following diagram:



All spring clips without a specific designation  $\square = 25 \text{ mm}$  dia. **1** = Original vehicle spring clip  $\square$ . All connecting pipes without a specific designation  $\square_{\square} = 18x18 \text{ mm}$  dia.

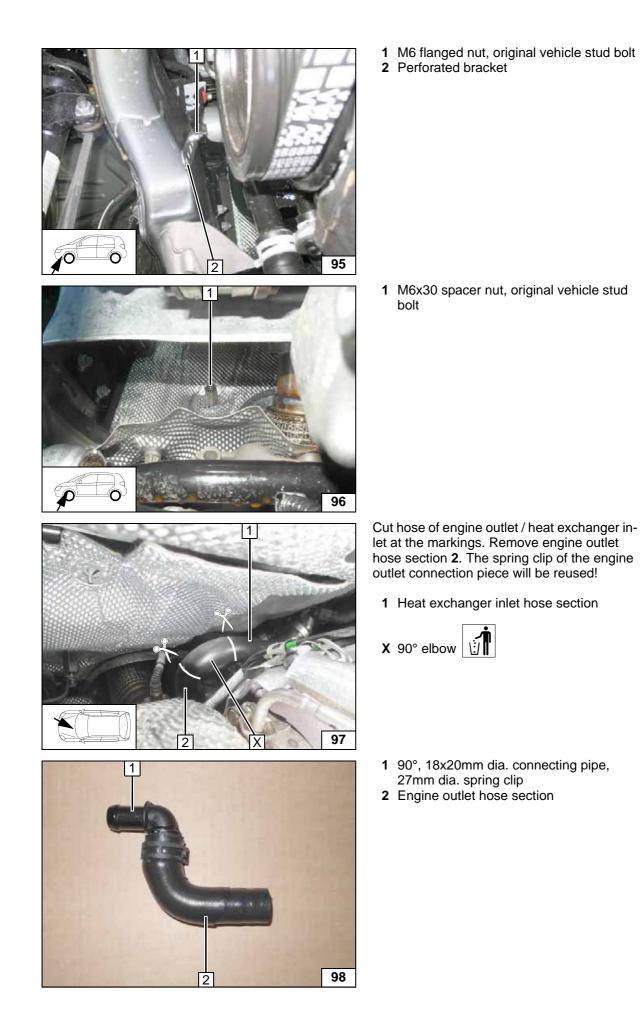


Installing perforated bracket

Installing spacer nut

Cutting point

Preparing engine outlet hose



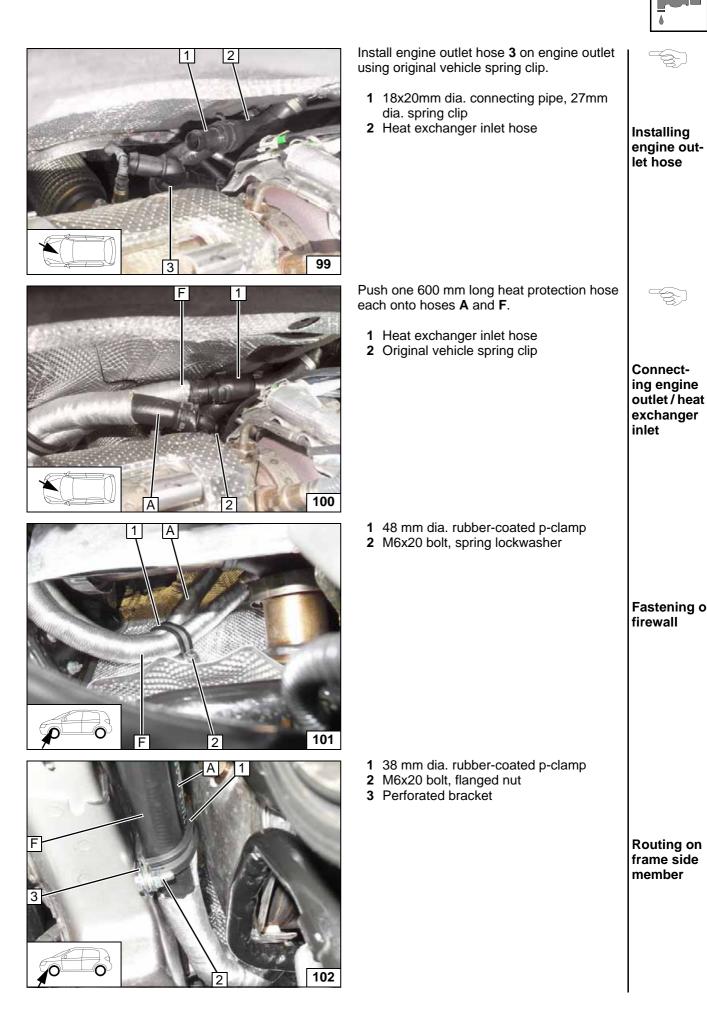


let hose

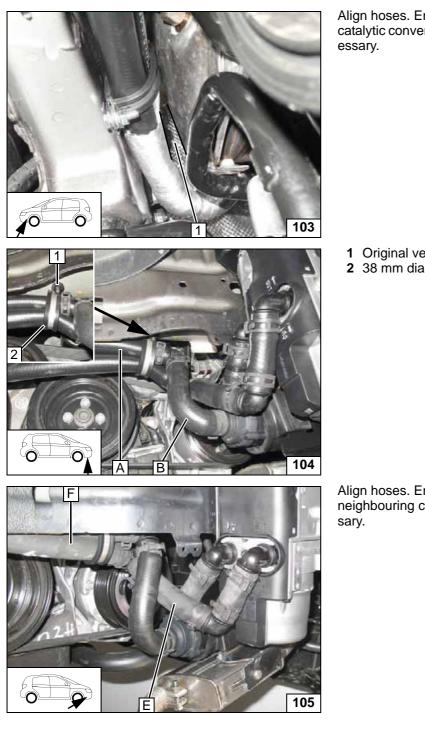
Connecting engine outlet / heat exchanger inlet

Fastening on firewall

Routing on frame side member







Align hoses. Ensure sufficient distance from catalytic converter at position **1**, correct if necessary.



Connecting heater inlet

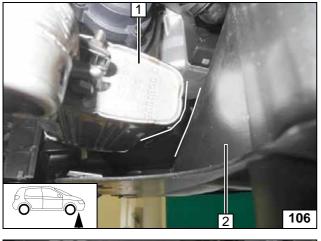
Original vehicle stud bolt, plastic nut
 38 mm dia. rubber-coated p-clamp

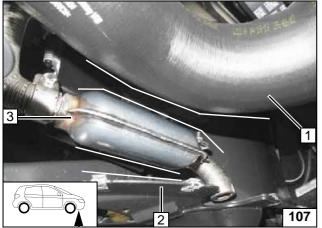
Align hoses. Ensure sufficient distance from neighbouring components, correct if necessary.

Connecting heater

outlet







# Aligning Exhaust Silencer

### 1.2 TSI / 1.4 TSI / TDI

Ensure sufficient distance between wheel well trim **2** and silencer **1**, correct if necessary.

### 1.8 TSI

Ensure sufficient distance between wheel well trim **2** as well as charge-air hose **1** and silencer **3**, correct if necessary.

Aligning exhaust si-

lencer

Aligning exhaust silencer

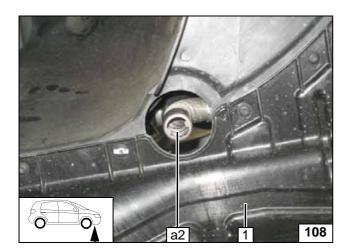
## **Final Work**

### WARNING!

Reassemble the components in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Insulate and tie back loose lines.

Only use manufacturer-approved coolant. Spray the heater components with anti-corrosion wax (Tectyl 100K).

- Connect the battery.
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Program MultiControl CAR, teach Telestart transmitter.
- Make settings on the A/C control panel according to the 'Operating Instructions'.
- Place the 'Switch off parking heater before refuelling' caution label near the filler neck.
- For initial startup and function check, please see installation instructions.



Align exhaust pipe **a2** with centre of pass through.

1 Underride protection installed







Aligning exhaust pipe a2

Webasto Thermo & Comfort SE Postfach 1410 82199 Gilching Germany Internet: www.webasto.com Technical Extranet: http://dealers.webasto.com



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Air-conditioning control panel

## **Operating instructions for Climatic**

Please remove page and add to the vehicle operating instructions.

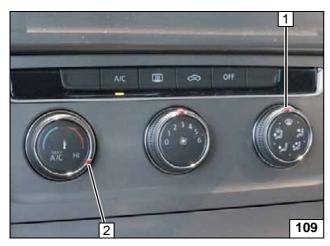
#### Note:

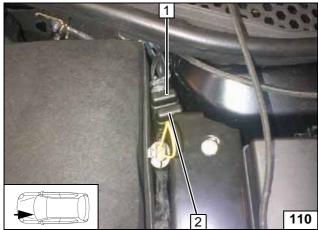
We recommend matching the heating time to the driving time. Heating time = driving time **Example:** For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

For instructions on deactivation, please refer to the operating instructions of the vehicle.

Before parking the vehicle, make the following settings:





- 1 Air outlet to windscreen
- 2 Set temperature to 'max.'

1 1A passenger compartment fuse F2

2 20A heater fuse F1

Engine compartment fuses



i

## **Operating instructions for Climatronic**

Please remove page and add to the vehicle operating instructions.

#### Note:

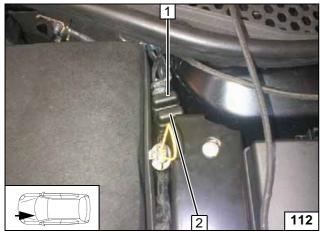
We recommend matching the heating time to the driving time. Heating time = driving time **Example:** For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

For instructions on deactivation, please refer to the operating instructions of the vehicle.

Before parking the vehicle, make the following settings:





- 1 Set temperature on both sides to 'HI'
- 2 Air outlet to windscreen
- Air-conditioning control panel
- 1 A passenger compartment fuse F2
  20A heater fuse F1

Engine compartment fuses