

# Water Heater



**Thermo Top E Parking Heater**

  
00 0003

**Thermo Top C Parking Heater**

  
00 0002

**Thermo Top P Parking Heater**

  
00 0104

## Installation documentation

### Toyota Auris

1.33 Gasoline

from Model Year 2009

For left-hand drive vehicles only



#### **WARNING!**

Hazard warning:

Incorrect installation or repair of Webasto heating systems may cause a fire or result in the emission of carbon monoxide, which can be fatal. Serious or fatal injuries can be caused as a result.



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

**NEVER attempt to install or repair Webasto heating or cooling systems if you have not successfully completed the company training and thereby acquired the required technical skills, or if you do not have access to the required technical documentation, tools and equipment needed to carry out correct installation and repairs.**

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

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

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**Validity**

Manufacturer	Model	Type	EG-BE No./ABE
Toyota	Auris	E15	e11 * 2001/116 * 0305 * ...

Engine type	Engine model	Output in kW	Displacement in cm <sup>3</sup>
1NR-FE	Gasoline	73	1329

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.

## Heater/Installation Kit

Quantity	Description	Order No.:
1	Retail accessories with desired heater control	See price list
1	Installation kit for Toyota Auris 1.33 Gasoline	1312796C

### Heater recommended for the respective vehicle class:

Vehicle	Heater
Compact car	Thermo Top E
Mid-size car, station wagon	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 document applies to vehicles Toyota Auris 1.33 Gasoline - for validity, see page 2 - from model year 2009 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 and maintenance instructions" for the *Thermo Top C/P/E* 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).

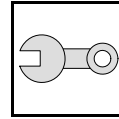
## Special Tools

- Torque wrench for 2.0 - 10 Nm
- Hose clamping pliers
- Metric thread-setter kit

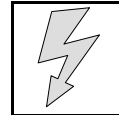
**Explanatory Notes on Document**

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.

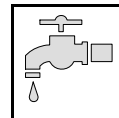
**Mechanical system**



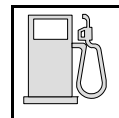
**Electrical system**



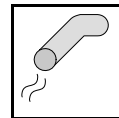
**Coolant circuit**



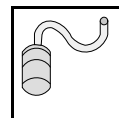
**Fuel**



**Exhaust gas**



**Combustion air**



Special features are highlighted using the following symbols:



Specific risk of injury or fatal accidents.



Specific risk of damage to components.



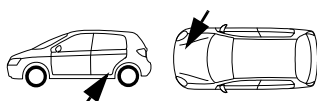
Specific risk of fire or explosion.



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!**

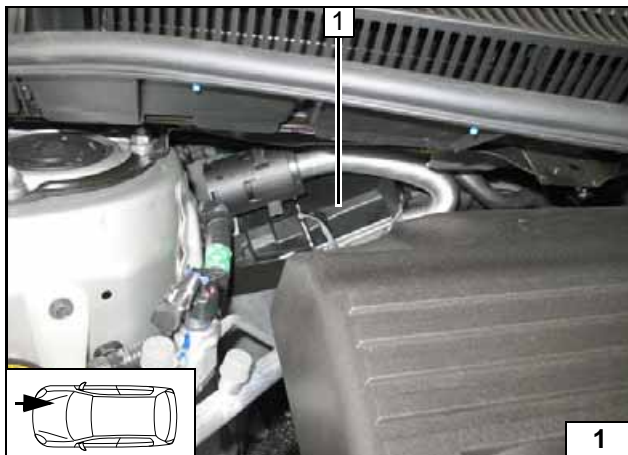
**Tightening torque of Ejet screws, Ejet studs = 10 Nm!**

**Preliminary Work**

**WARNING!**

- Remove the engine design cover.
- Remove the windshield wipers.
- Remove the coolant reservoir cap.
- Remove the coolant reservoir trim and windshield wiper linkage
- Open the fuel tank cap, ventilate the tank.
- Close the tank cap again.
- Remove the battery cover and disconnect the battery.
- 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 rear entrance strips on the left and right
- Remove the rear single seat and double seat bench
- Open the fuel sender service lid.
- Remove the fuel-tank sending unit in accordance with the manufacturer's specifications
- Remove the side trim of the centre console in the footwell on the left
- Remove the AC booster.
- Remove the left-hand trim next to the steering wheel (switch insert for mirror adjustment, ESP)
- Remove the cover behind the rear triangular window on the left

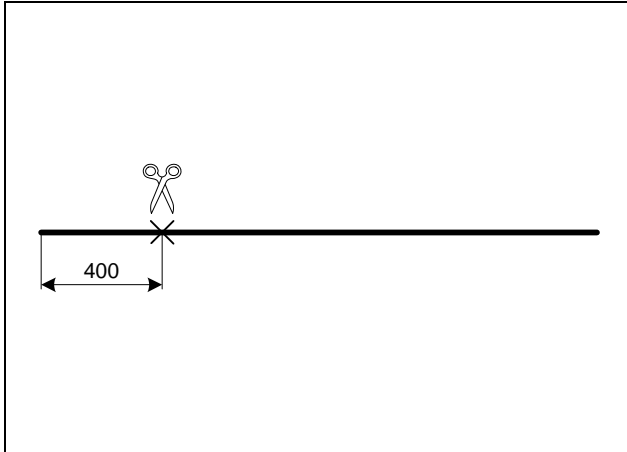
Remove page 25 "Operating Instructions for End Customer" and add to the vehicle operating instructions.



**Heater installation location**

1 Heater

**Installation location**



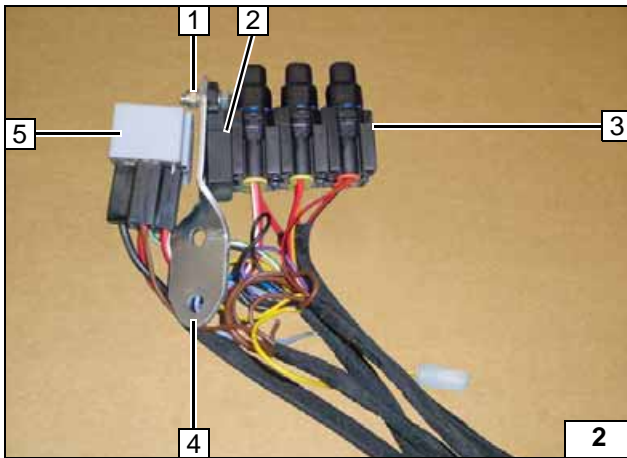
**Preparing electrical system**

**All vehicles**

Cut corrugated tube provided to length.



**Cutting corrugated tube to length**



Replace 25 A fuse F3 with 10 A fuse.

- 1 M5x20 bolt, washer, flanged nut
- 2 Retaining plate for fuse holder
- 3 Fuses pushed on
- 4 Perforated bracket turned (approx. 80°)
- 5 K3 relay



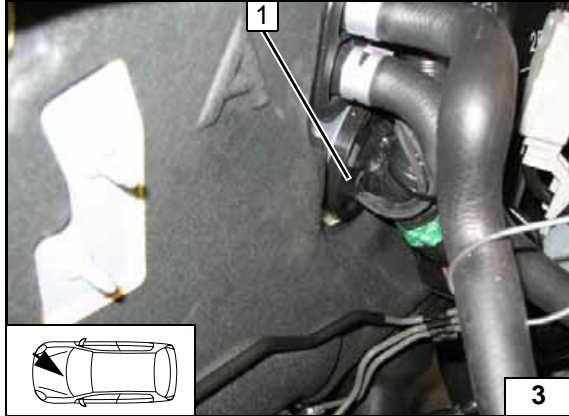
**Preparing wiring harness**



### Electrical Connections

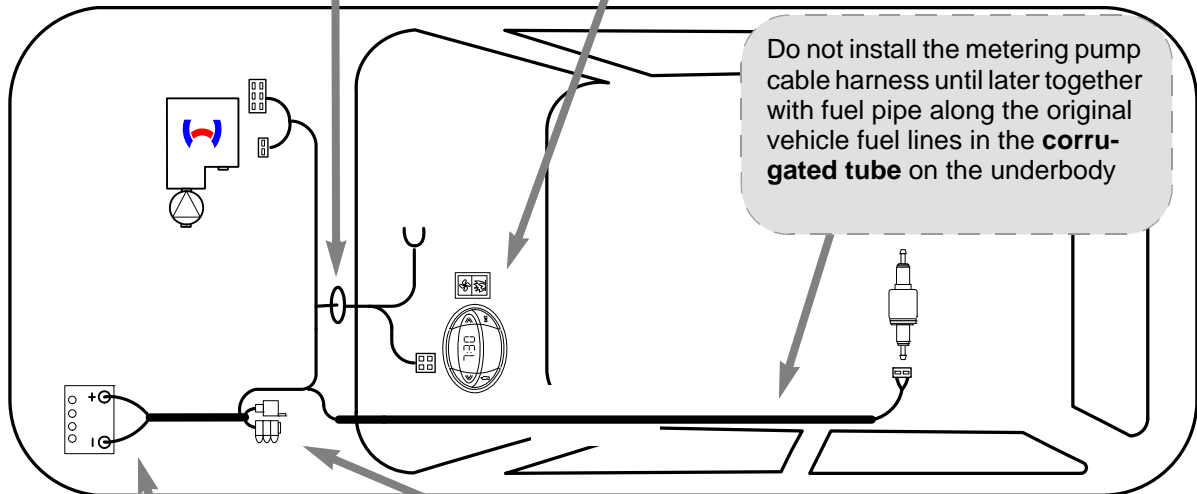
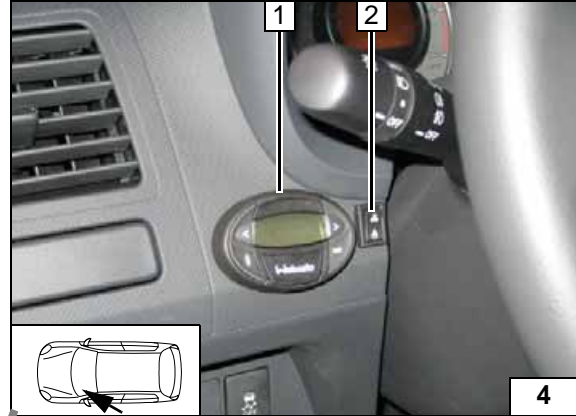
#### Wiring harness pass through

- 1 Protective rubber plug



#### Digital timer and summer/winter switch option

- 1 Digital timer
- 2 Summer/winter switch

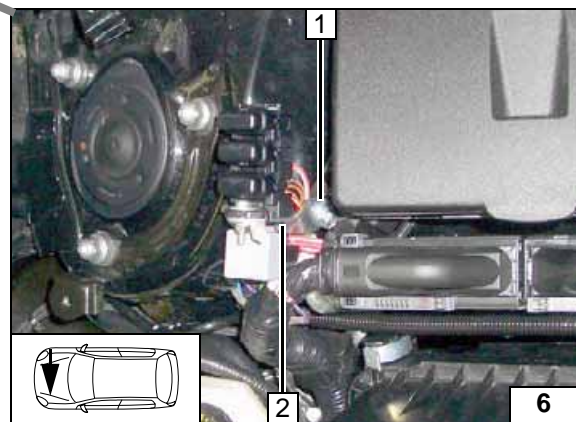


Wiring harness installation diagram



#### Connection to battery

- 1 400 mm corrugated tube on line for power supply of heater wiring harness
- 2 8 mm dia. claw cable lug, ground supply
- 3 8 mm dia. claw cable lug, positive supply



#### Fuse holder, K3 relay

See wiring diagram.

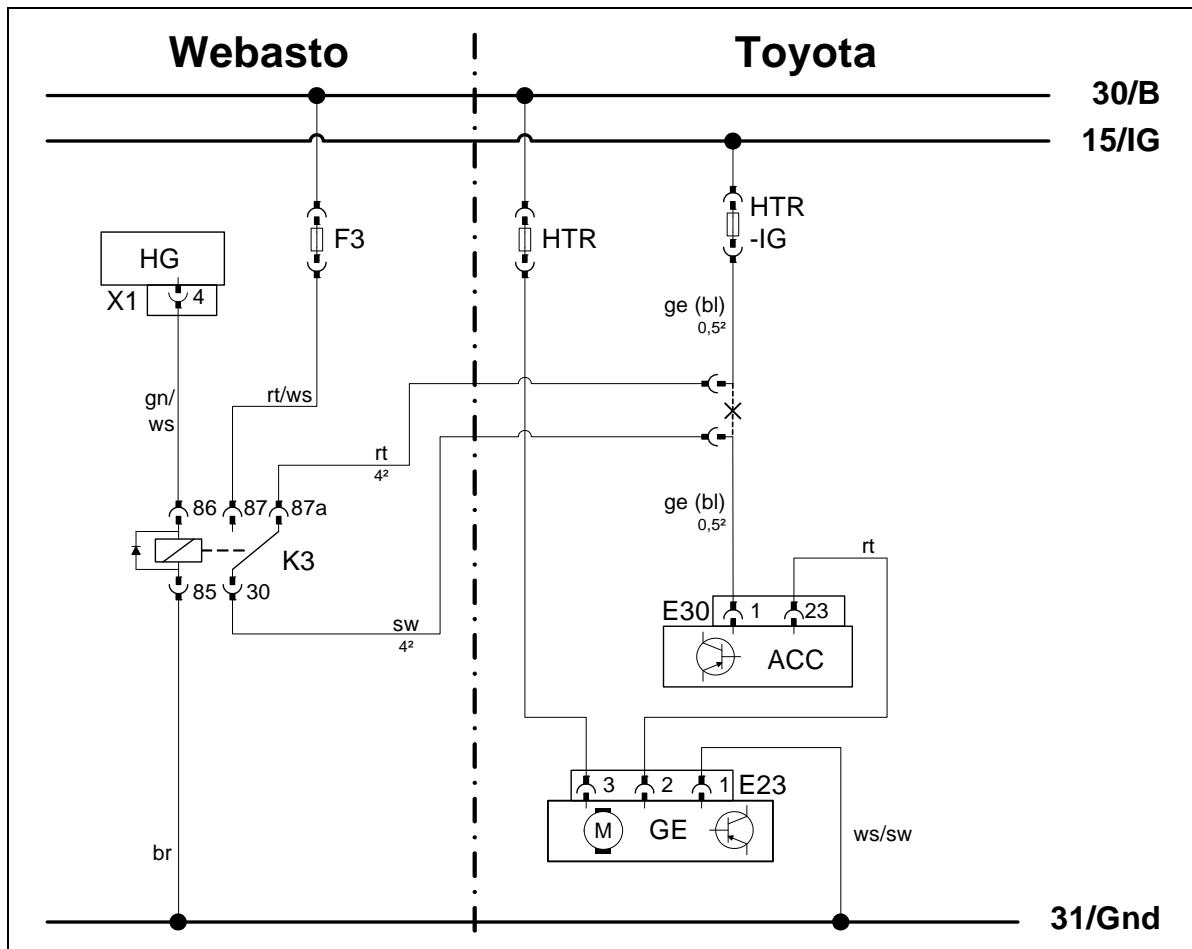
- 1 Original vehicle bolt
- 2 Perforated bracket



Automatic air-conditioning fan controller



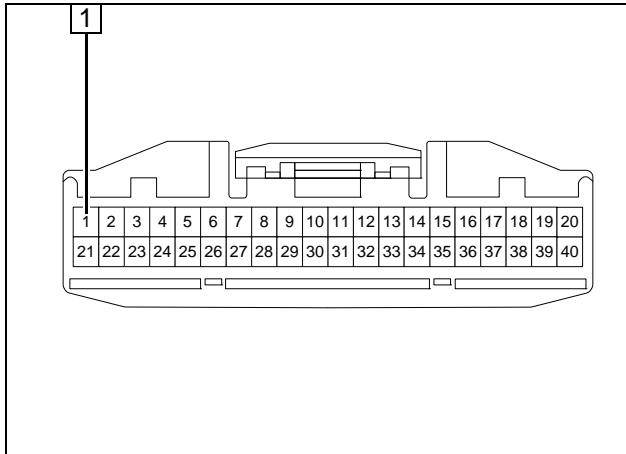
Wiring diagram



Webasto components		Vehicle components		Colours and symbols	
HG	Heater TT-C/E	GE	Fan unit	rt	red
X1	6-pin connector	E23	GE connector	ws	white
F3	Replace 25 A with 10 A fuse.	ACC	AC control	sw	black
K3	Fan relay	E30	40-pin ACC connector	br	brown
		HTR	30 A fuse	gn	green
		HTR-IG	10 A fuse	ge	yellow
				bl	blue
				X	Cutting point
				Wiring colours may vary.	

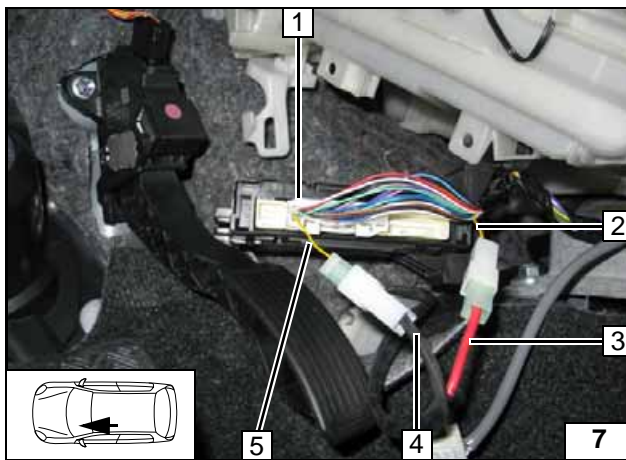
Legend





1 Connector E30 on contact side (PIN 1)

E30 connector



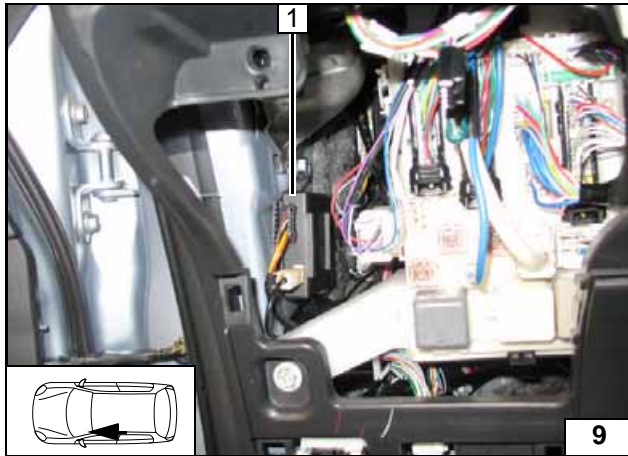
Connection to 40-pin connector 1 from ACC  
Produce connections as shown in wiring diagram.



- 2 Yellow (ge) (bl) wire of fuse HTR/IG
- 3 Red (rt) wire of K3/87a
- 4 Black (sw) wire of K3/30
- 5 Yellow (ge) (bl) wire connector E30/1

Connection to ACC



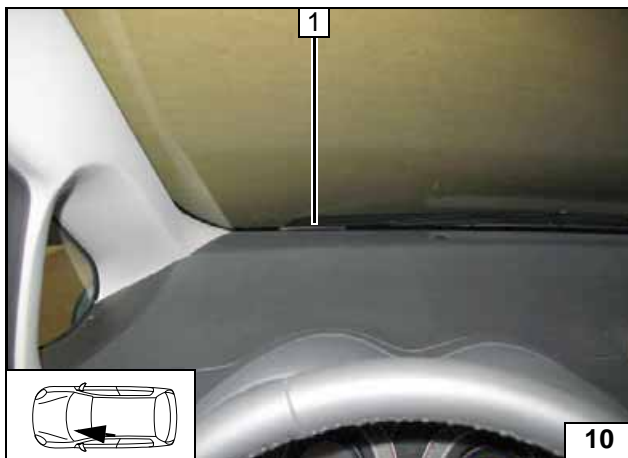


**Remote option (Telestart)**

Fasten receiver 1 with adhesive tape.

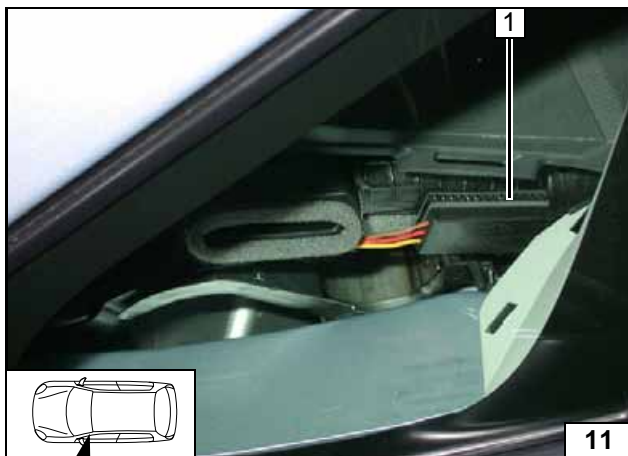


**Installing receiver**



1 Antenna

**Installing antenna**

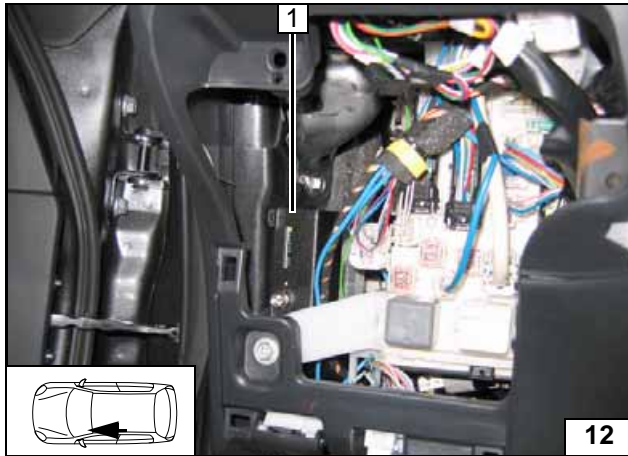
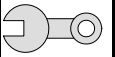


**Temperature sensor only with T100 HTM**

Fasten sensor 1 with adhesive tape.



**Installing temperature sensor**

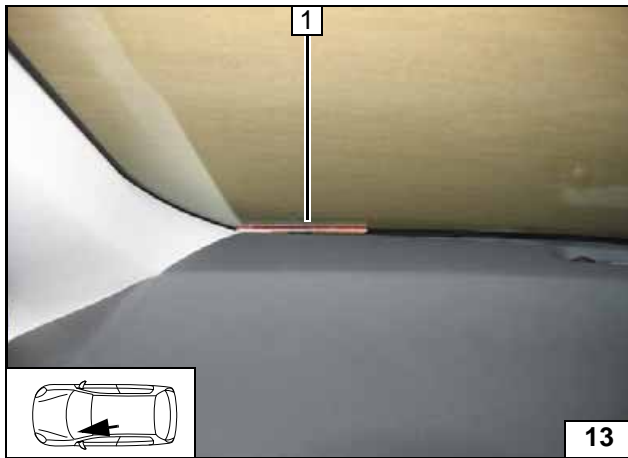


**Remote option Thermo Call**

Fasten receiver 1 with adhesive tape.

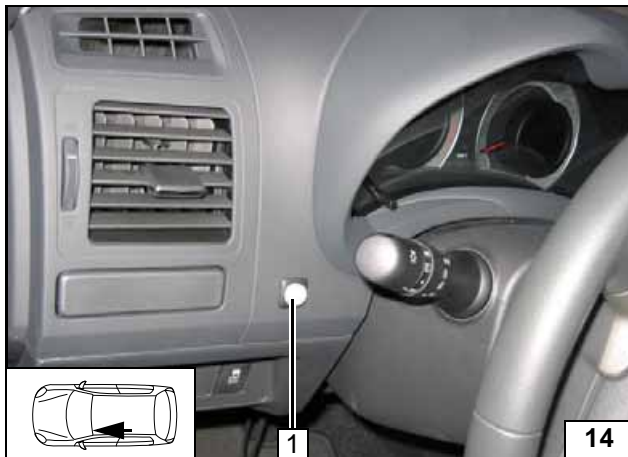


**Installing receiver**



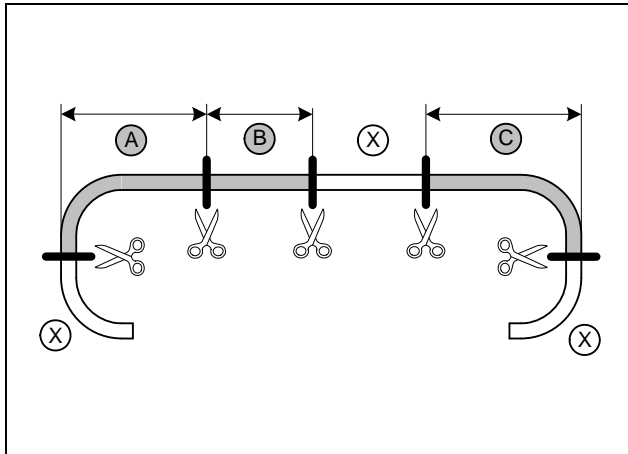
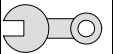
1 Antenna

**Installing antenna**



1 Push button

**Installing push button**

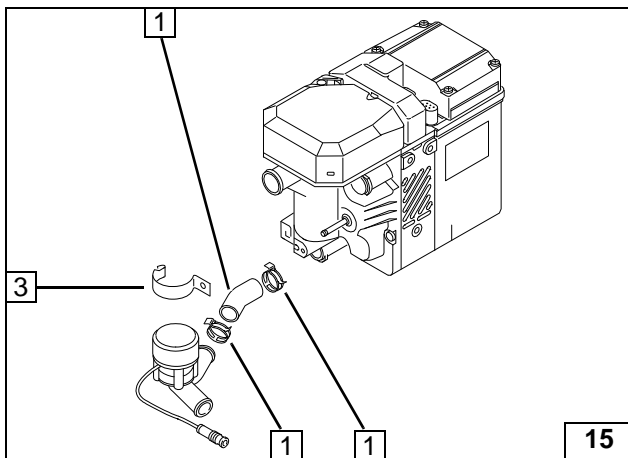


**Preparing heater**

a = 100  
b = 270  
c = 480

Discard section X

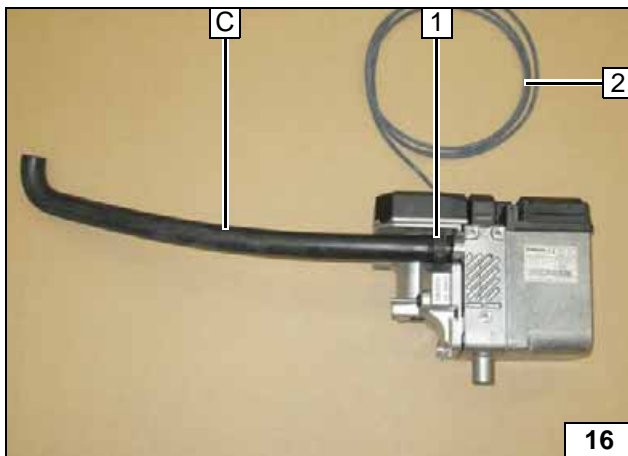
**Cutting hoses to length**



Open centre heater cover and pull off wiring harness of circulating pump. Spring clips 2 [2x] will be reused. Discard hose section 1 and clamp 3.



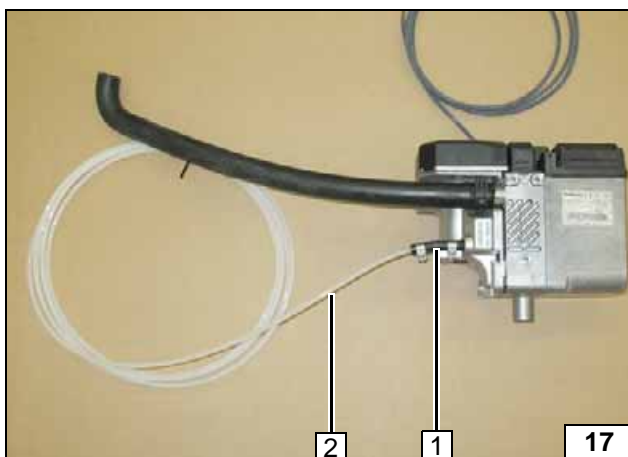
**Removing circulating pump**



Connect adapter wiring harness 2 and mount heater cover.

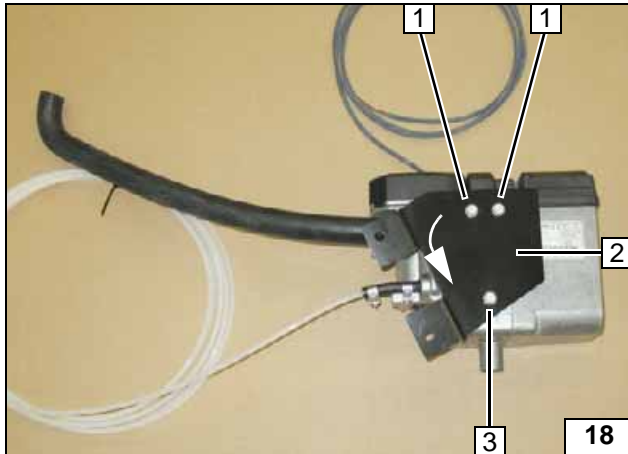
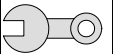
1 27 mm dia. spring clip

**Premounting hose C**



1 Hose section, 10 mm dia. hose clamp [2x]  
2 Fuel line

**Premounting fuel line**

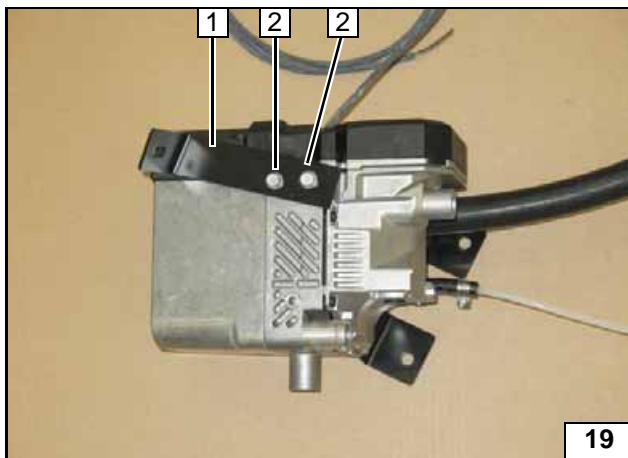


Align bracket **2** in direction of arrow. Insert two washers between heater and bracket **2** at position **3**.

- 1** E-jot screw [2x]
- 3** E-jot screw, washer [2x]



**Preassembling bracket**

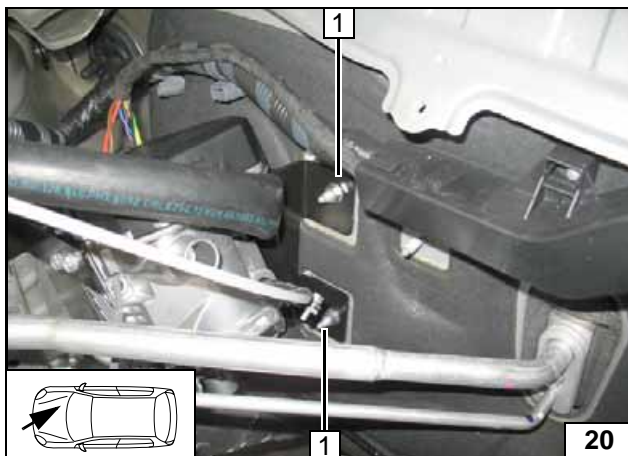


Loosely mount strut **1**.

- 2** E-jot screw [2x]



**Loosely mounting strut**



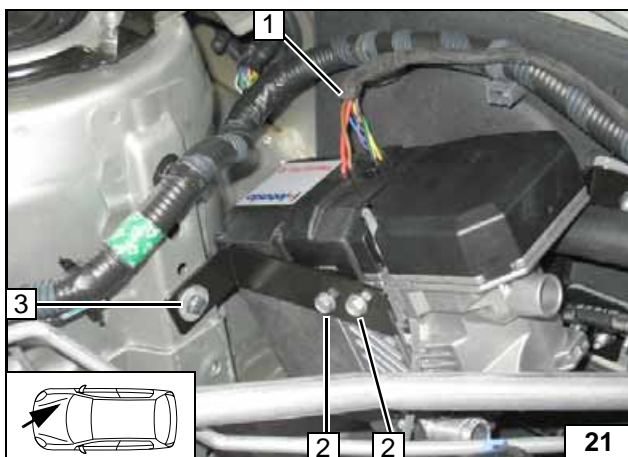
**Installing heater**

Ensure sufficient distance to adjacent components, especially to A/C line. Correct if necessary!

- 1** Original vehicle stud bolt, M6 flanged nut [2x each]



**Installing heater**



Align heater and tighten E-jot screws at position **2** [2x]. Connect wiring harness **1** on heater.

- 3** Original vehicle threaded hole, M6x20 bolt, spring lockwasher, large diameter washer



**Installing heater**



**Fuel**

**CAUTION!**

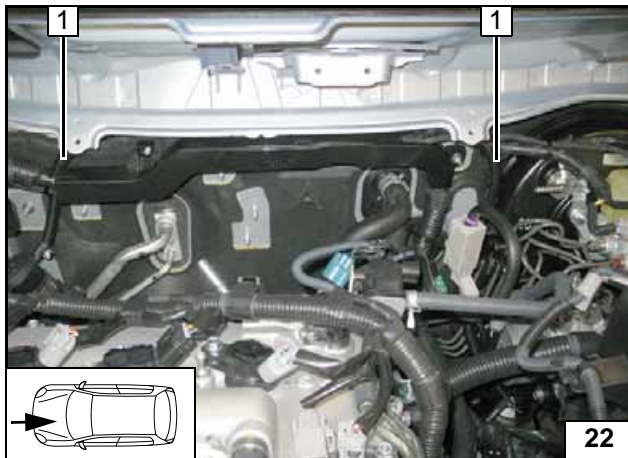
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

Catch any fuel running off with an appropriate container.

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

**WARNING!**

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



Slide 730 mm corrugated tube **1** onto fuel line from heater toward left and route further to underbody.

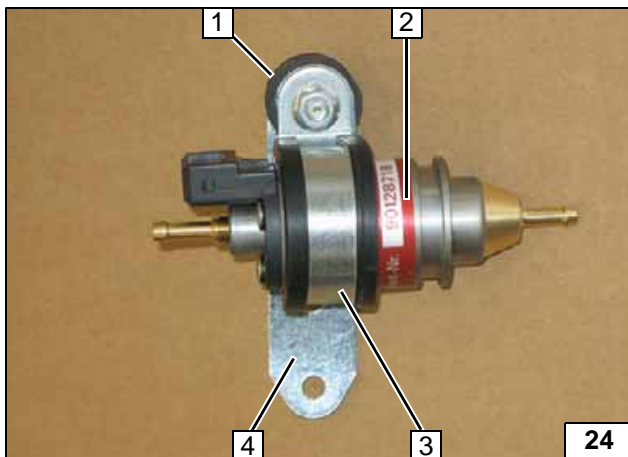
**Installing fuel line**



Route fuel line and wiring harness of metering pump in 1130 mm corrugated tube **1** [2x] along original vehicle lines and secure with cable ties.

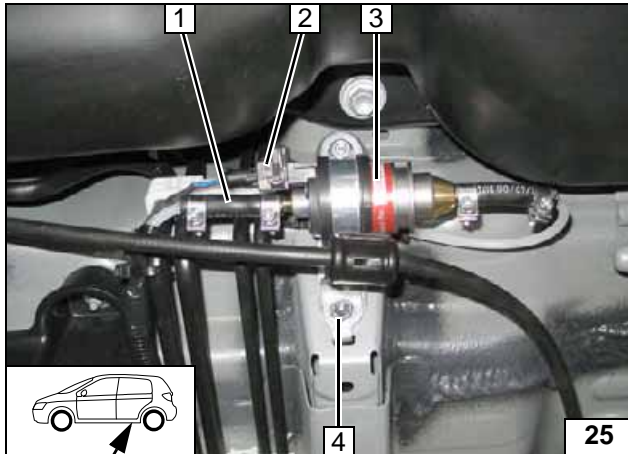


**Installing lines**



- 1 Silent block, flanged nut [2x]
- 2 Metering pump
- 3 Rubber-coated pipe clamp
- 4 Perforated bracket

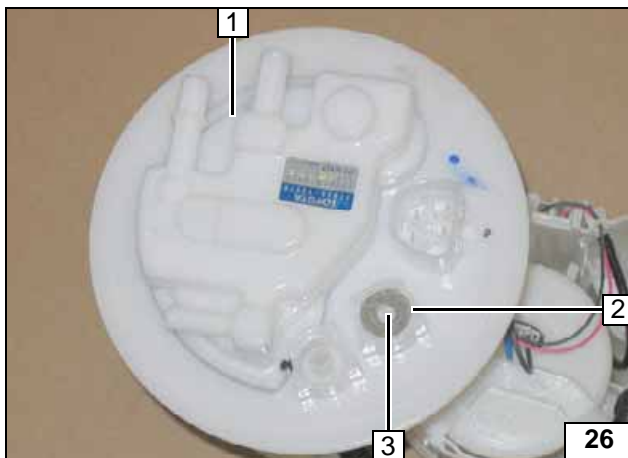
**Premounting metering pump**



- 1 Hose section, 10 mm dia. hose clamps [2x], fuel line from heater
- 2 Wiring harness of metering pump, connector mounted
- 3 Preassembled metering pump
- 4 Original vehicle bolt



**Installing and connecting metering pump**

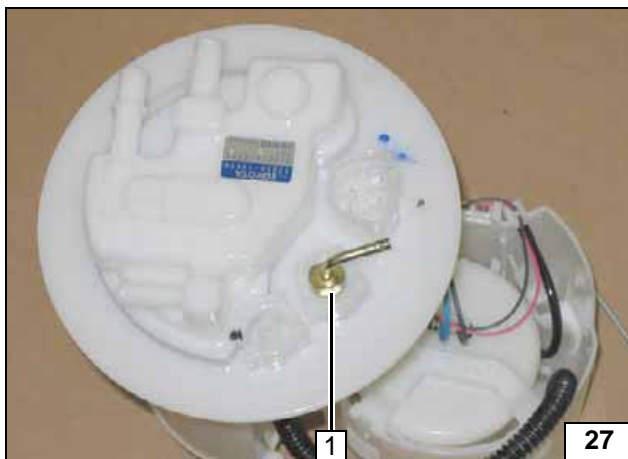


Remove fuel-tank sending unit 1 in accordance with manufacturer's specifications.

- 2 Washer, outside dia. = 17.6 mm; copy hole pattern, 6 mm dia. hole
- 3 Copy hole pattern, 6 mm dia. hole



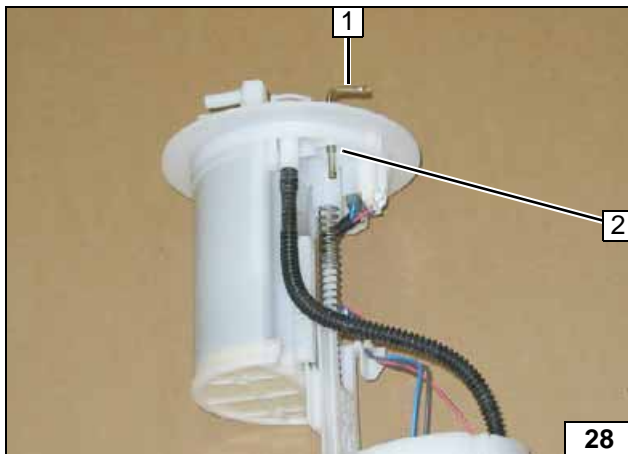
**Removing fuel**



- 1 Fuel standpipe



**Installing fuel standpipe**

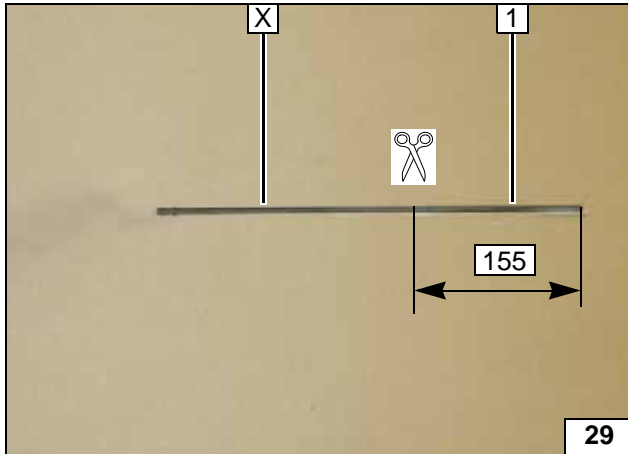


- 1 Fuel standpipe
- 2 M6 nut, self-locking



**Installing fuel standpipe**





Cut standpipe 1 to length as shown and discard section X.



**Cutting standpipe to length**

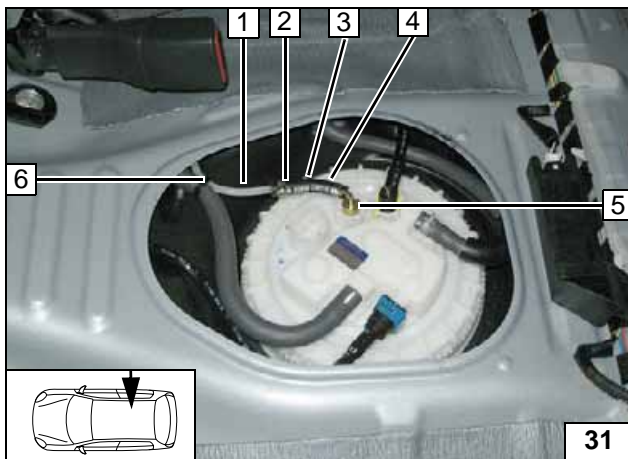


Moulded hose 2 with 3.5 mm dia. on fuel standpipe!

- 1 8 mm dia. Caillau clamp
- 3 10 mm dia. Caillau clamp
- 4 Standpipe



**Installing standpipe**

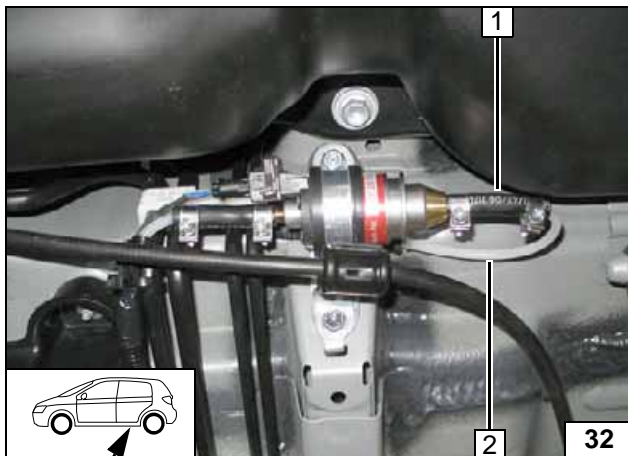


Install fuel-tank sending unit in accordance with manufacturer's instructions. Moulded hose 3 with 3.5 mm dia. on fuel standpipe 5.

- 1 Fuel line
- 2 10 mm dia. Caillau clamp
- 4 8 mm dia. Caillau clamp
- 6 Cable tie



**Removing fuel**

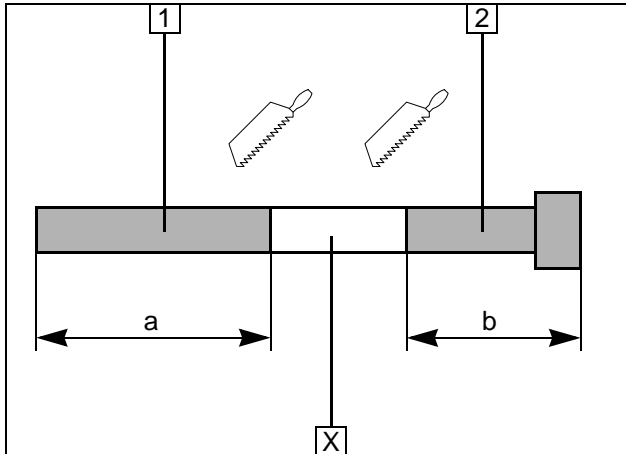
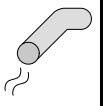


Check the position of the components; adjust if necessary. Check that they have free clearance.

- 1 Hose section, 10 mm dia. clamp [2x]
- 2 Fuel line



**Connecting metering pump**

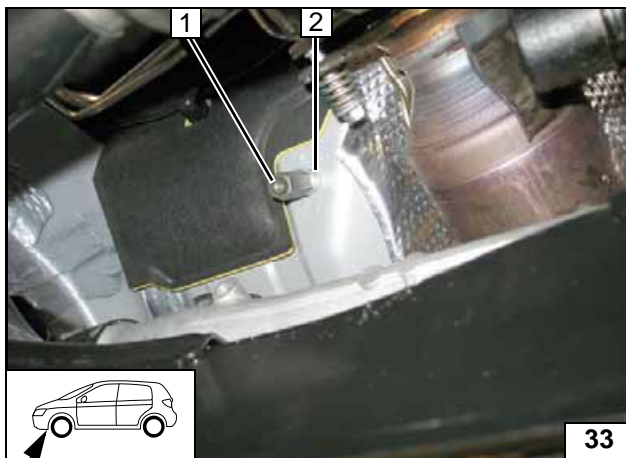


**Exhaust gas**

- 1 Exhaust pipe  
a = 250
- 2 Exhaust end section  
b = 440

Discard section X

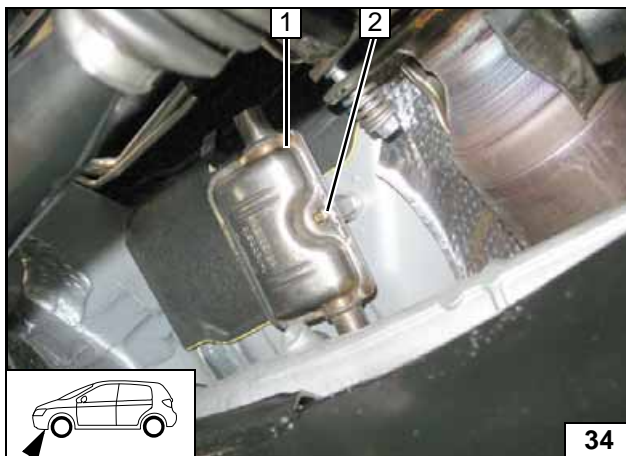
**Cutting ex-  
haust pipe  
to length**



Install 10 mm shim 2 and M6x40 1 spacer nut on original vehicle stud bolt.

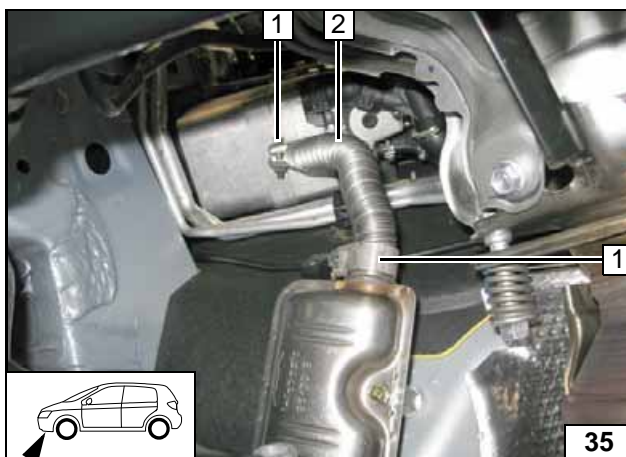


**Installing  
spacer nut**



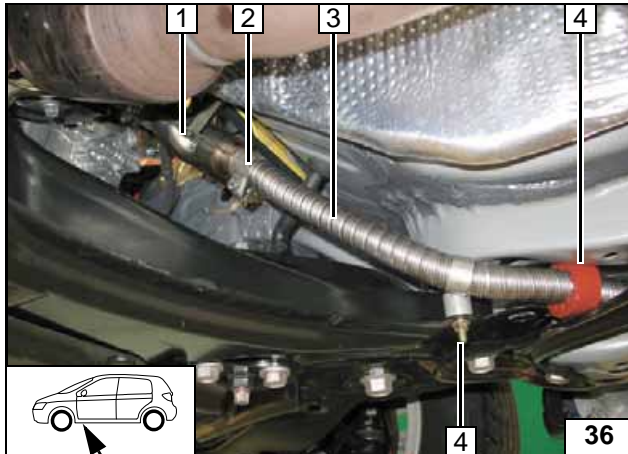
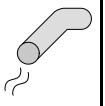
- 1 Exhaust muffler
- 2 M6x20 bolt, spring lockwasher

**Installing  
muffler**



- 1 Hose clamp [2x]
- 2 Exhaust pipe

**Installing  
exhaust  
pipe**

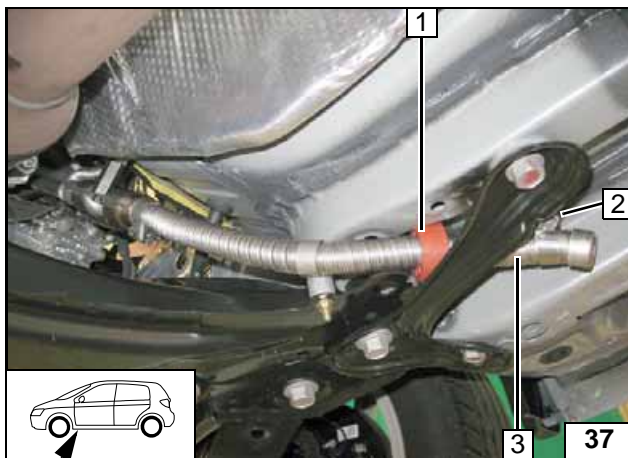


Slide red (rt) rubber isolator 4 onto exhaust end section 3!

- 1 Exhaust muffler
- 2 Hose clamp
- 5 Original vehicle hole, M6x40 bolt, p-clamp, 20 mm shim, flanged nut



**Installing exhaust end section**



Check position of all components and adjust if necessary. Check that they have free clearance. Align red (rt) rubber isolator 1!

- 2 Original vehicle hole, M6x20 bolt, large diameter washer, p-clamp, flanged nut
- 3 Exhaust-pipe end section



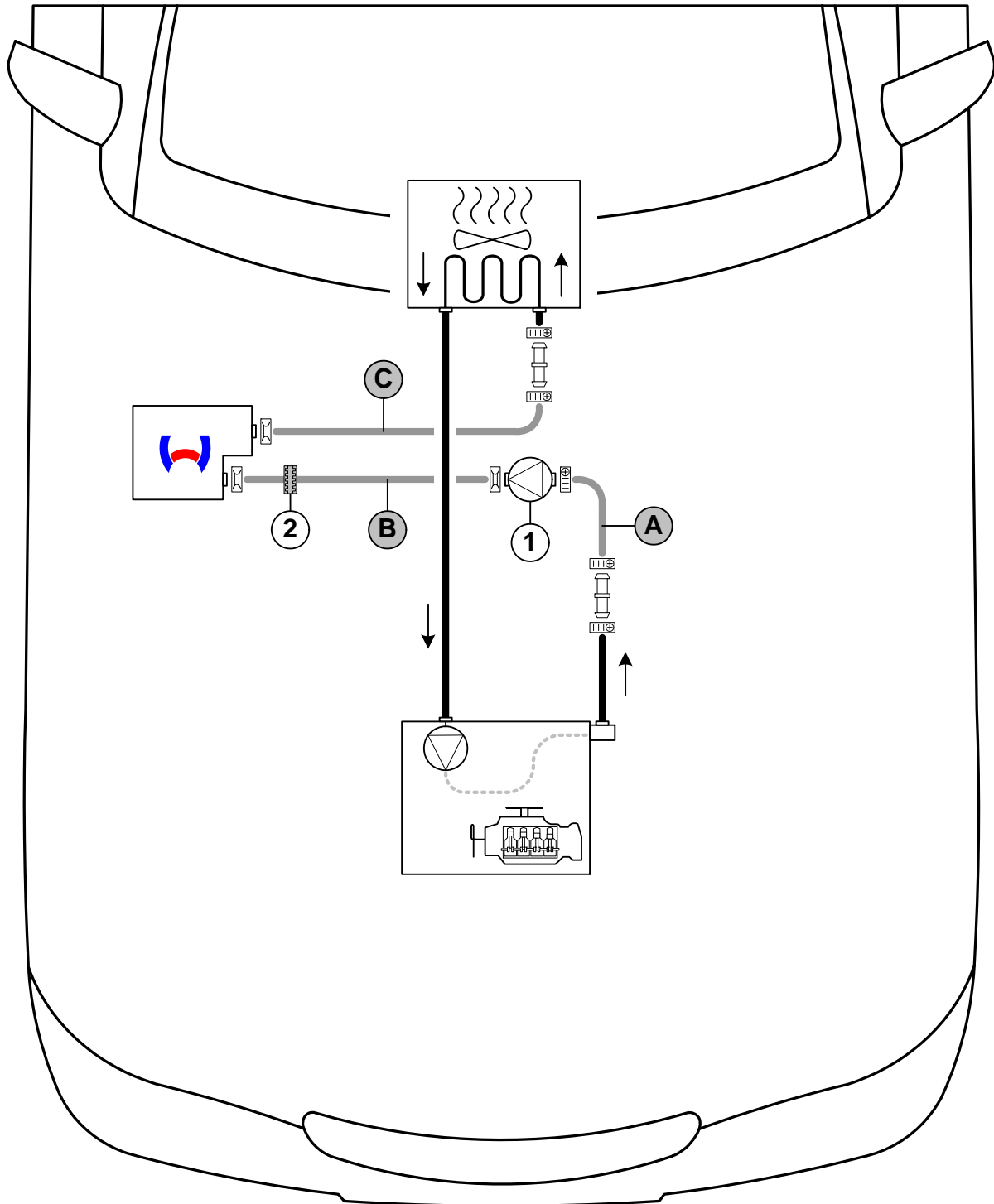
**Aligning exhaust end section**







**Coolant circuit**

**WARNING!**

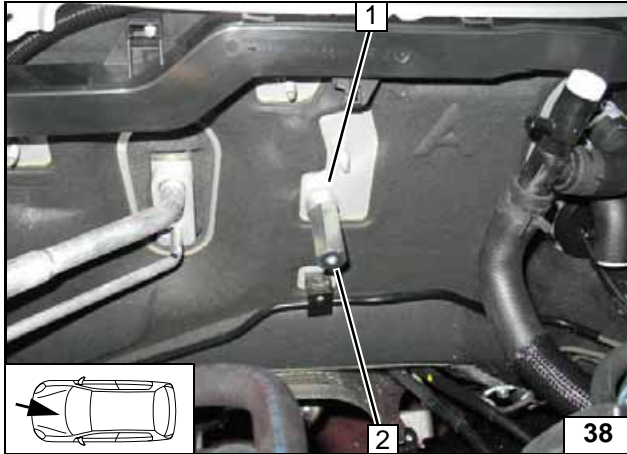
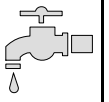
Any coolant running off should be collected using an appropriate container! Install hoses so that they are kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that no other hose can be damaged! When installing the hoses, the heater must be filled with coolant. The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



Hose routing diagram

All spring clips  = 27 mm dia.! All hose clamps  = 20-27 mm dia.  
 All connecting pipes  = 17x20 dia.  
 1 = Circulating pump! 2 = Black (sw) rubber isolator  .

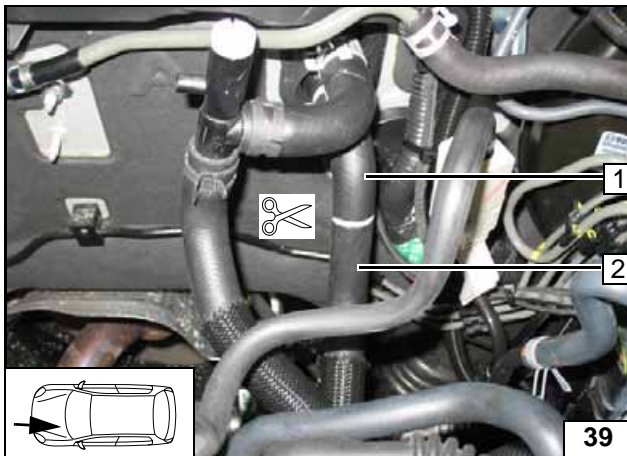




Install 10 mm shim 1 and M6x40 2 spacer nut on original vehicle stud bolt.

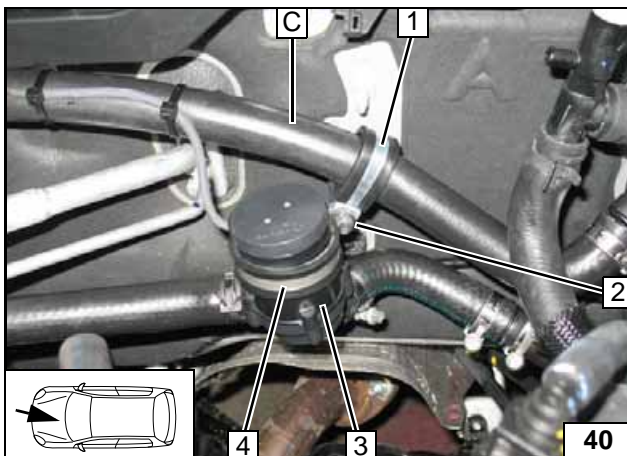


**Installing spacer nut**



1 Hose section of heat exchanger inlet  
2 Engine-outlet hose section

**Cutting point**

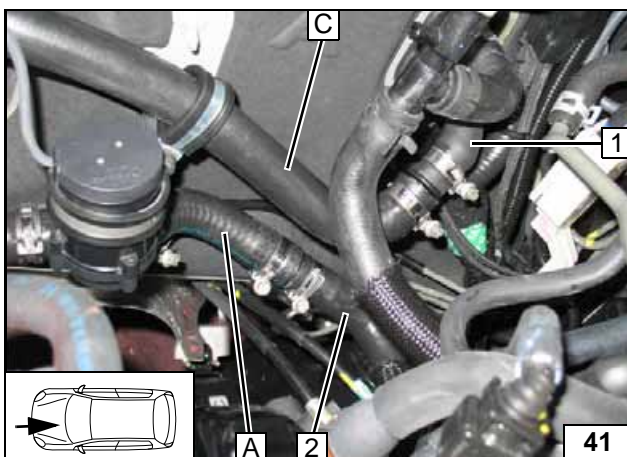


Route hose **C** through p-clamp 1!

1 29 mm dia. rubber-coated p-clamp  
2 Spacer nut, M6x20 bolt, spring lockwasher  
3 Circulating pump  
4 48 mm dia. rubber-coated p-clamp

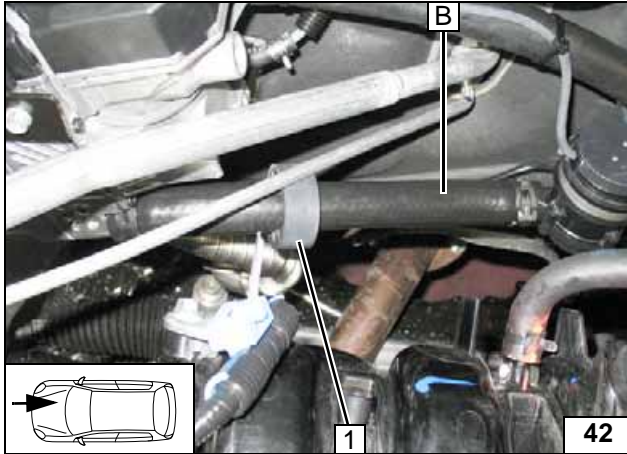
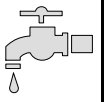


**Installing circulating pump**



1 Hose section of heat exchanger inlet  
2 Engine-outlet hose section

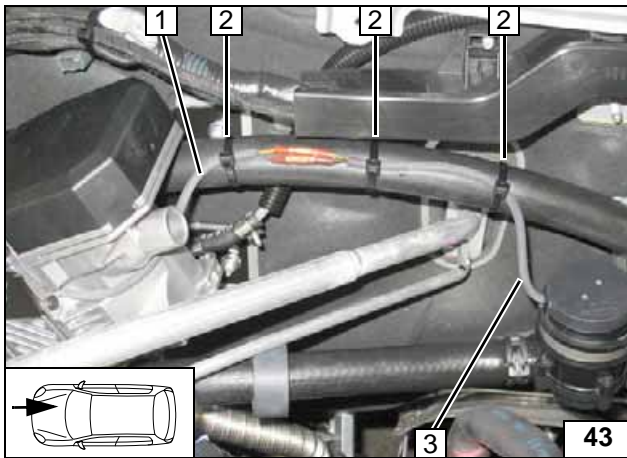
**Connec-  
tion on en-  
gine outlet  
and heat  
exchanger  
inlet**



Slide black (sw) rubber isolator 1 onto hose B and align between exhaust and A/C line.



Connect-  
ing heater  
inlet

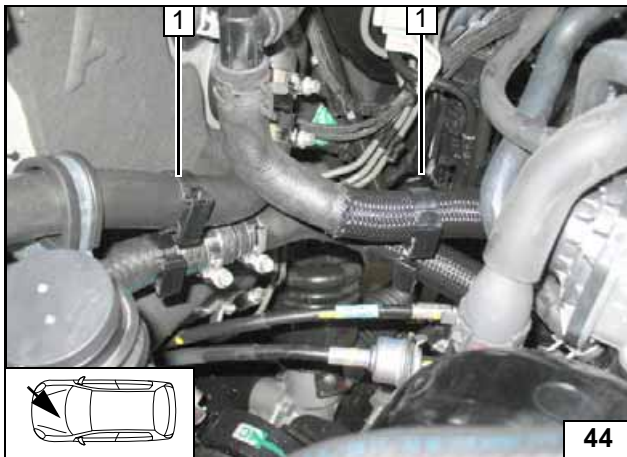


Connect wiring harness of circulating pump 3 to adapter wiring harness 1 of same color.



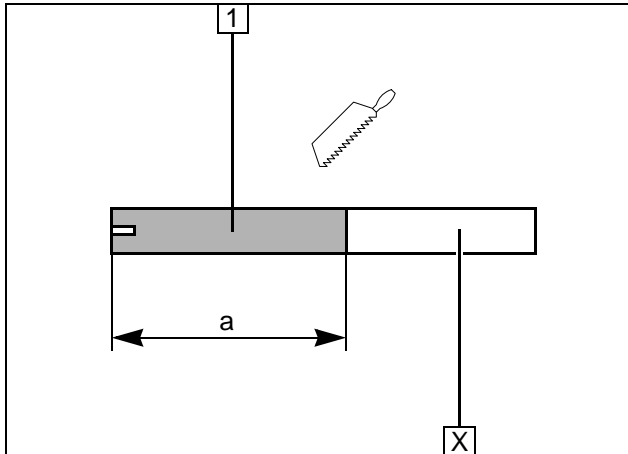
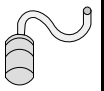
2 Cable tie [3x]

Connect-  
ing circu-  
lating  
pump



1 Lockable spacer bracket [2x]

Install-  
ing  
spacer  
bracket

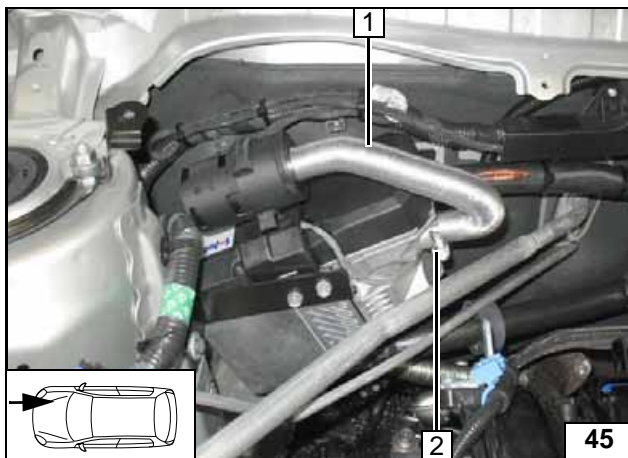


**Combustion air**

- 1 Combustion air pipe  
a = 250

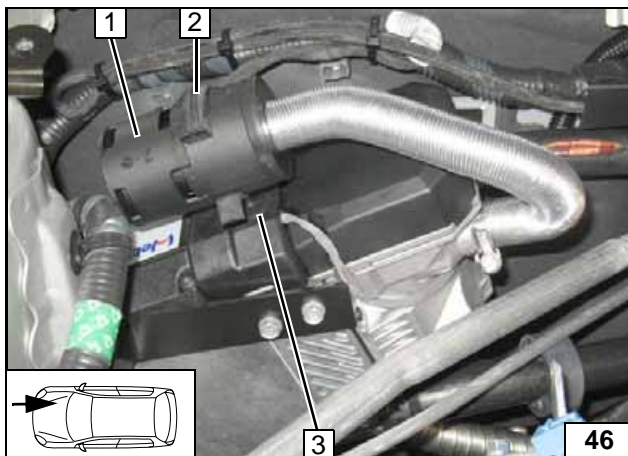
Discard section X

**Cutting combustion air pipe to length**



- 1 Combustion air pipe
- 2 27 mm dia. hose clamp

**Installing combustion air pipe**

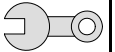


Punch through perforation at position 3 and mount retaining clip 2.

- 1 Muffler



**Installing muffler**



## Final Work

### WARNING!

Reassemble the disassembled components in reverse order.

Check all hoses, clamps and all electrical connections for firm seating.

Secure all loose cables using cable ties.

Only use manufacturer-approved coolant.

Spray 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.
- Adjust digital timer, try out Telestart
- Set the manual air conditioning or automatic air conditioning according to the "operating instructions for the end customer".
- Mount information label "Switch off parking heater before refueling" in area of filler neck.
- Check the proper operation of the parking heater, see the operating instructions/installation instructions.



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**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.

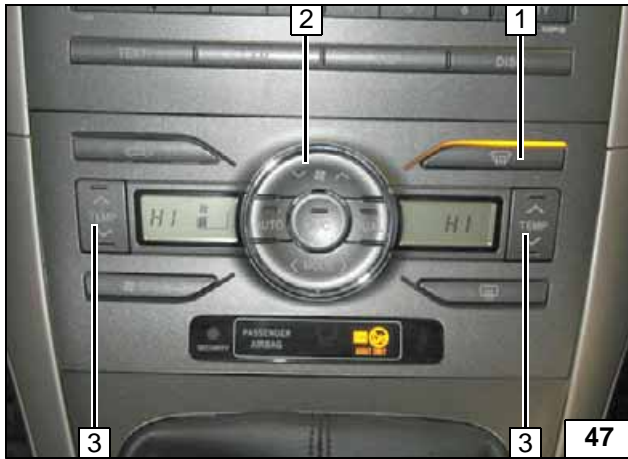
Heating time = driving time

**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, this must be switched in accordance with the time of year. The heater will then only switch on the vehicle fan to ventilate the vehicle interior in the position Winter  heat and in the position Summer .

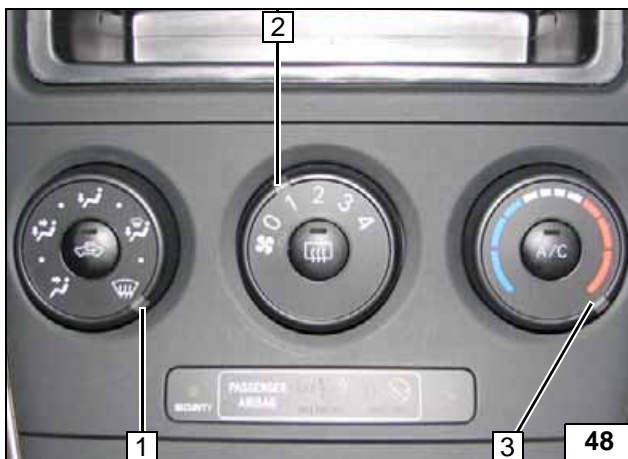
Before parking the vehicle, make the following settings:



No display appears in A/C control panel during heating!

**Order of setting:**

1. Air outlet at windshield
2. Set fan to level "2"
3. Set temperature to "HI"



**Order of setting:**

1. Air outlet at windshield
2. Set fan to level "1"
3. Set temperature to "max."



**Automatic air-conditioning**



**Manual air conditioning**