Water Heater

Thermo Top Evo Parking Heater

E1
00 0258

With FuelFix

Installation Documentation
Hyundai i40

Validity

Manufacturer	Model	Type	EG-BE No. / ABE
Hyundai	i40	VF	e1 * 2001 / 46 *0263

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm³	Engine code
1.7 CRDI	Diesel	AG	85	1685	D4FD

AG = automatic transmission

From model year 2015
Left-hand drive vehicle

Verified equipment variants: Manual / automatic air-conditioning system
Xenon headlights
Start button without key
Alarm system
Automatic Start-Stop system

Not verified: Front fog lights

Total installation time: approx. 9 hours

Hyundai i40

Table of Contents

Necessary Components

- Basic delivery scope of Thermo Top Evo based on price list
- Installation kit with FuelFix for Hyundai i40 2015 Diesel: **1324346A**
- 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

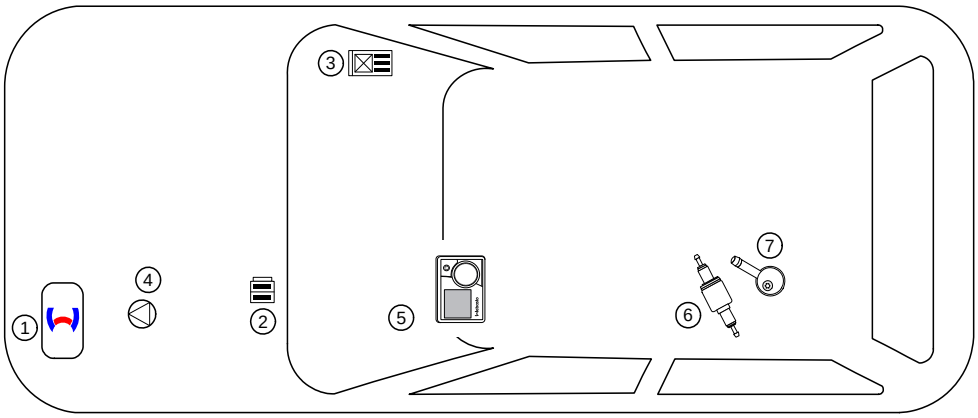
Installation instructions:

- Arrange for the vehicle to be delivered with the tank only about ¼ 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 available space and manufacturer's instructions, we recommend the use of a vehicle battery with more electrical capacity.

Installation Overview

Legend:

1. Heater
2. Engine compartment fuse holder
3. Passenger compartment relay and fuse holder
4. Circulating pump
5. MultiControl CAR
6. Metering pump
7. FuelFix



Information on Total Installation Time

The total installation time includes the time needed for mounting and demounting of 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 to original vehicle lines and wiring harnesses using cable ties. Insulate loose wire ends and tie back. Connectors on electronic components have to audibly click into place during installation.

Sharp edges should be fitted with rub protection. Spray unfinished body areas, e.g. drilled holes, with anti-corrosion wax (Tectyl 100K, Order No. 111329).

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	TT-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 StVZO (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.

2. VEHICLE INSTALLATION REQUIREMENTS

2.1. Scope

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 gas 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.

Information on Validity

This installation documentation applies to Hyundai i40 Diesel vehicles - for validity, see page 1 - from model year 2015 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 - 6mm²
- Crimping pliers for cable lug / tab connector 0.5 - 6mm²
- Torque wrench for 2.0 - 10 Nm
- Hose clamping pliers
- Metric thread-setter kit
- Deep-hole marker
- Webasto Thermo Test Diagnosis with current software

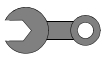
Dimensions
- All dimensions are in mm.

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-the-art-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.

Mechanical System



Electrical System

Coolant Circuit

Combustion Air

Fuel

Exhaust Gas

Software

Special features are highlighted using the following symbols:

Specific risk of damage to components.

Specific risk due to electrical voltage.

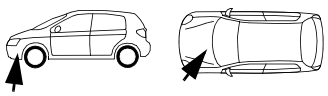
Specific risk of injury or fatal accidents.

Specific risk of fire or explosion.

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

Reference to a special technical feature.

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



Tightening torque according to the manufacturer's vehicle-specific documents.

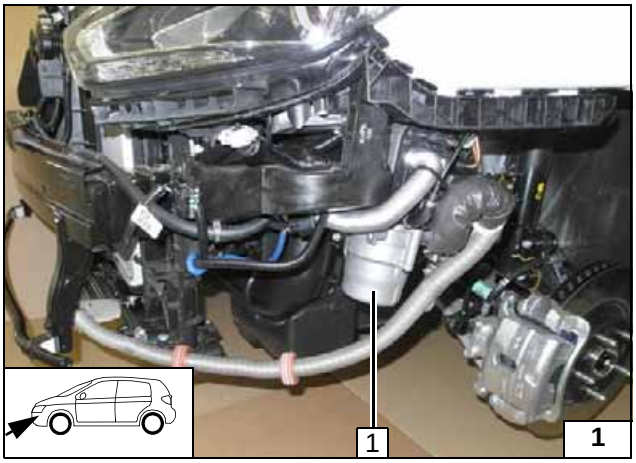
Preliminary Work

Vehicle

- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- Depressurise the cooling system.
- Disconnect and completely remove the battery together with the carrier.
- Remove the air filter.
- Remove the engine control unit.
- Remove the bumper trim.
- Remove the wheel well trim on the left-hand side.
- Remove the front underride protection.
- Remove the underbody trim (fuel line cover) on the left.
- Open the right-hand tank-fitting service lid (boot).
- Remove the footwell trim on the front passenger's side.
- Remove the A-pillar trim in the footwell on the front passenger's side (only with Telestart).
- Remove the glove box and the trim behind.
- Remove the A/C control panel according to the manufacturer's instructions.

Heater

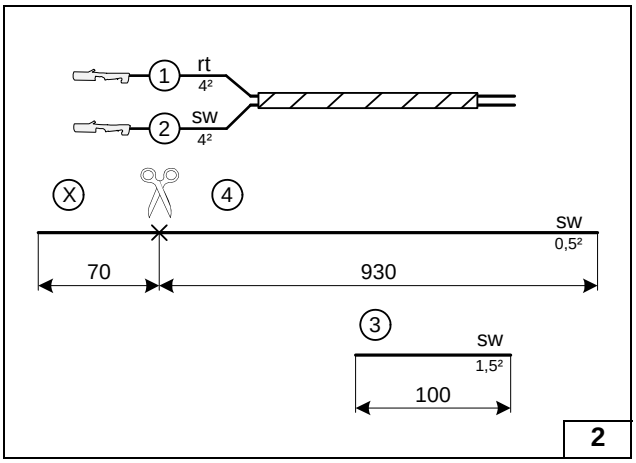
- Remove years that do not apply from the type and duplicate label.
- Attach the duplicate label (type label) visibly in the appropriate place in the engine compartment.



Heater Installation Location

1 Heater

Installation location



2

Preparing Electrical System

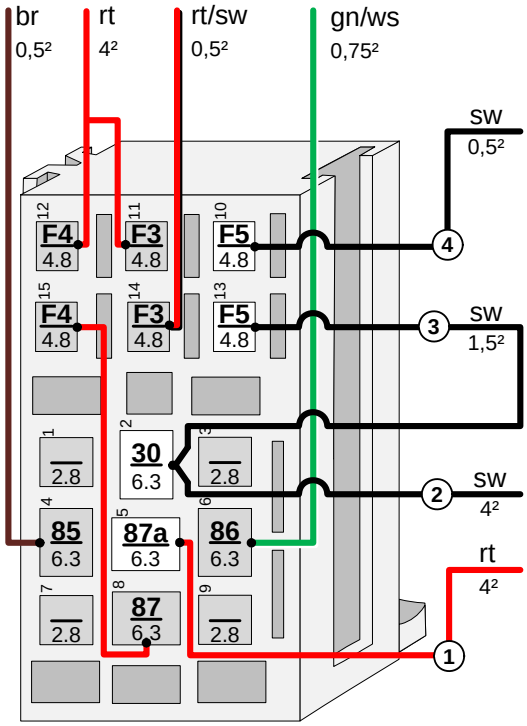
Wire sections retain their numbering throughout the entire document.

Produce all following electrical connections as shown in the wiring diagram. Pull wire section **4** into provided protective sleeving.

Discard section **X**.

① Red (rt) wire of fan wiring harness
② Black (sw) wire of fan wiring harness

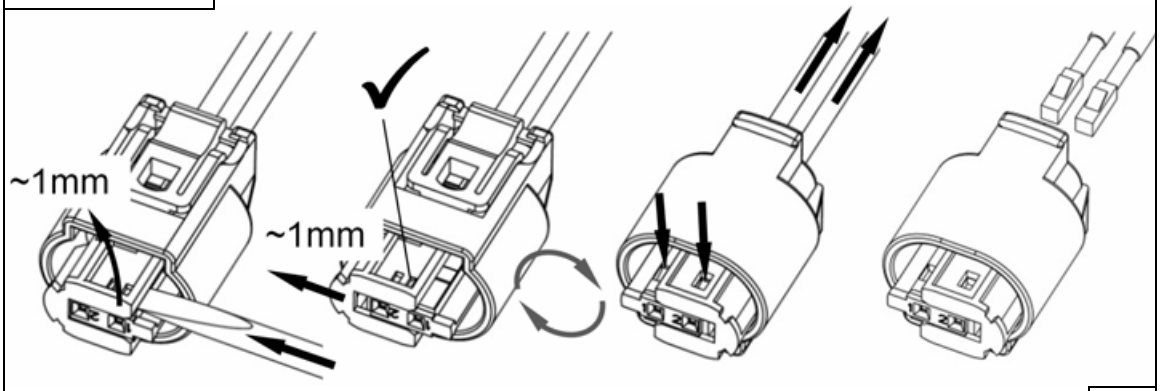
Cutting to length / assigning wires



3

Connecting wires to passenger compartment relay and fuse holder

Connector X7



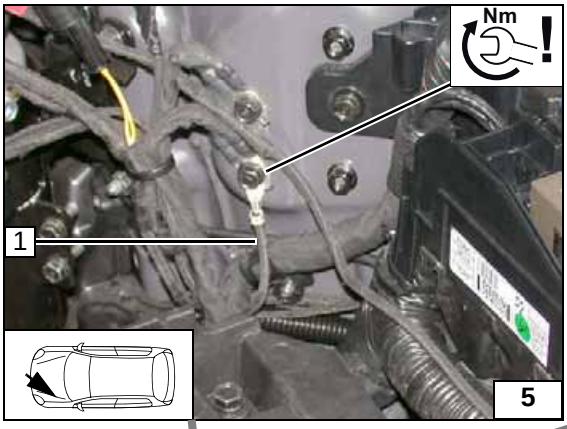
4

Dismantling metering pump connector

Electrical System

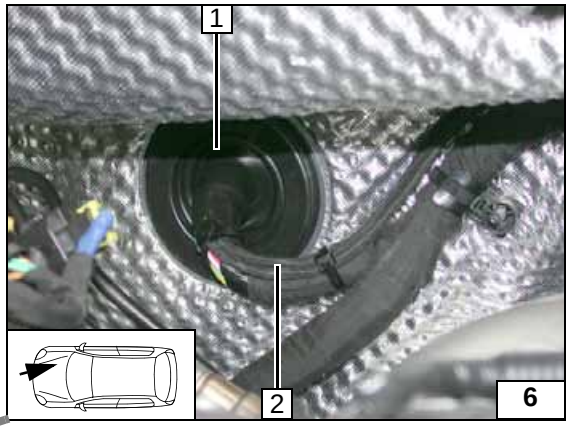
Earth wire

1 Earth wire on original vehicle earth support point

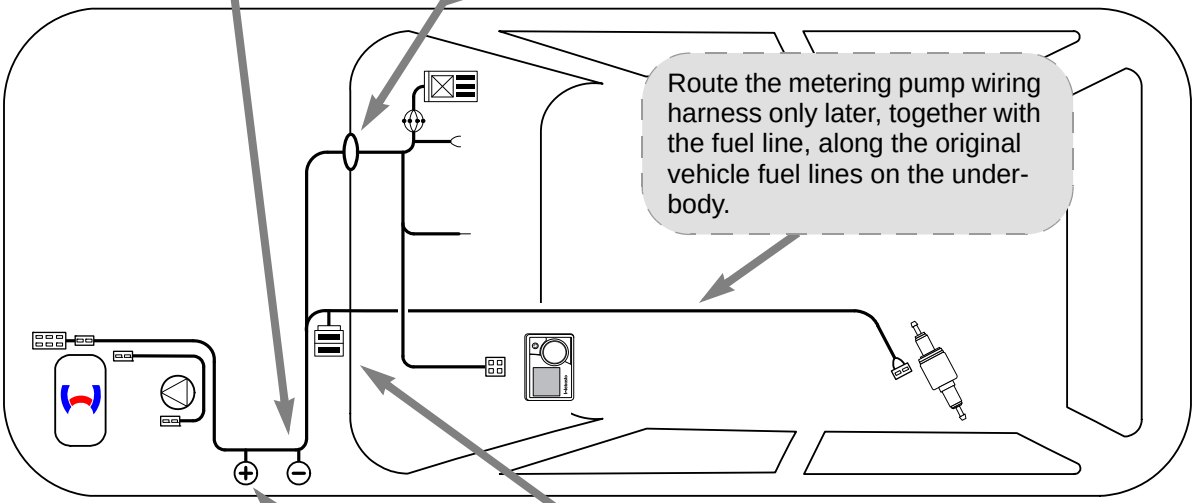


Wiring harness pass through

1 Protective rubber plug
2 Wiring harnesses of heater, heater control

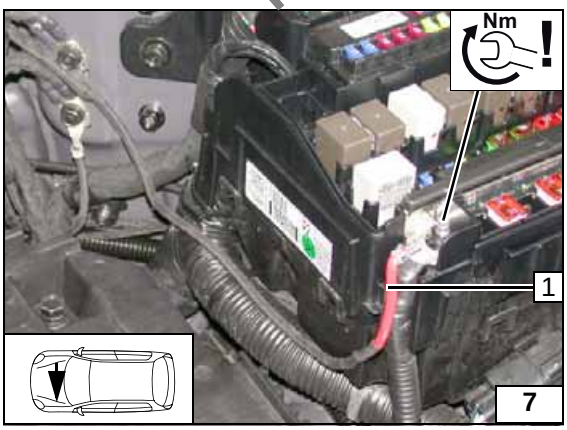


Wiring harness routing diagram



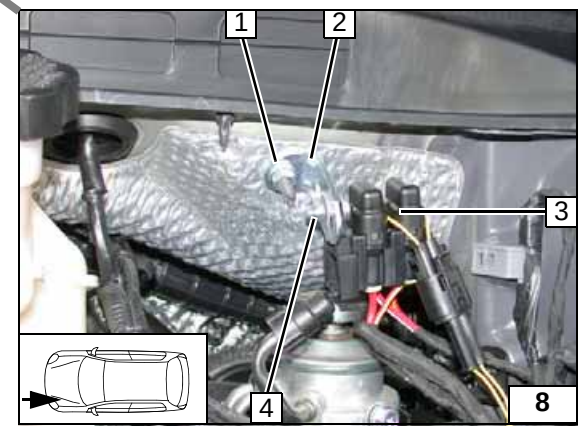
Positive wire

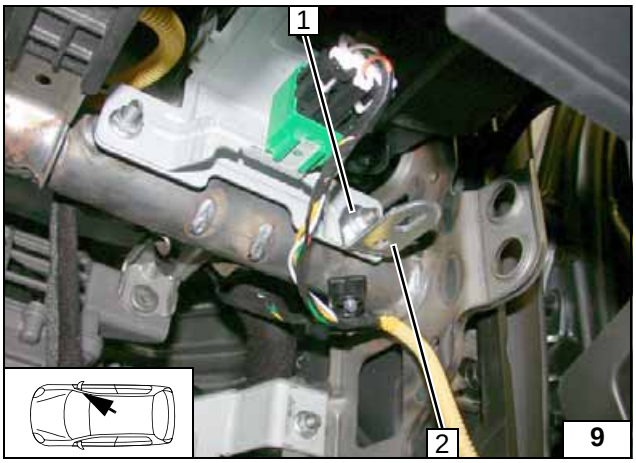
1 Positive wire on original vehicle positive support point



Engine compartment fuse holder

1 Original vehicle stud bolt, M6 flanged nut
2 Angle bracket
3 Fuses F1-2
4 M5x16 bolt, washer [2x], retaining plate of fuse holder, nut

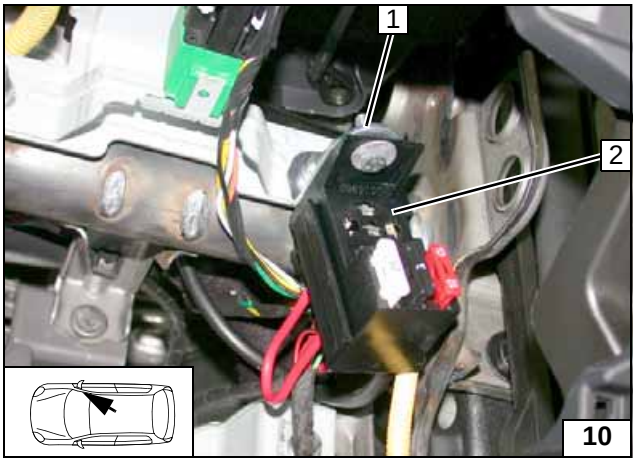




Installing passenger compartment relay and fuse holder

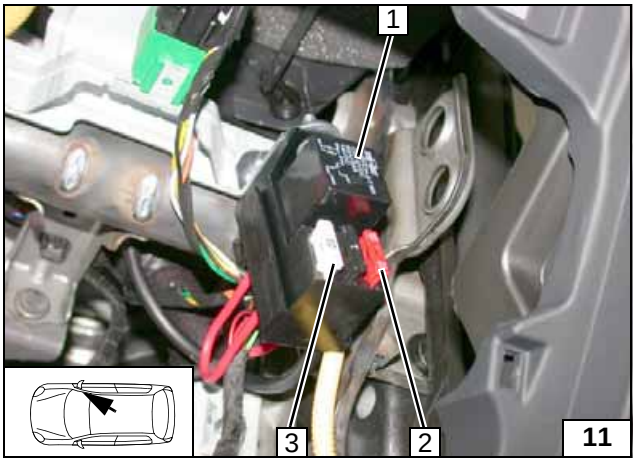
1 Original vehicle bolt, original vehicle nut
2 Angle bracket

Installing angle bracket



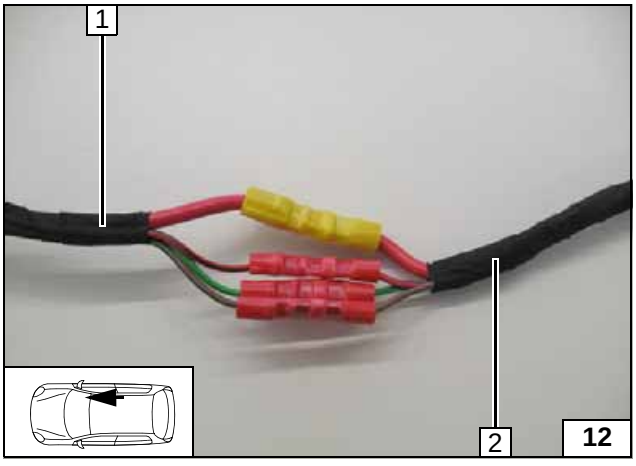
1 M5x16 bolt, large diameter washer [2x], nut
2 Passenger compartment relay and fuse holder

Installing passenger compartment relay and fuse holder



1 K1 relay
2 10A fuse F5
3 25A fuse F4

Installing K1 relay

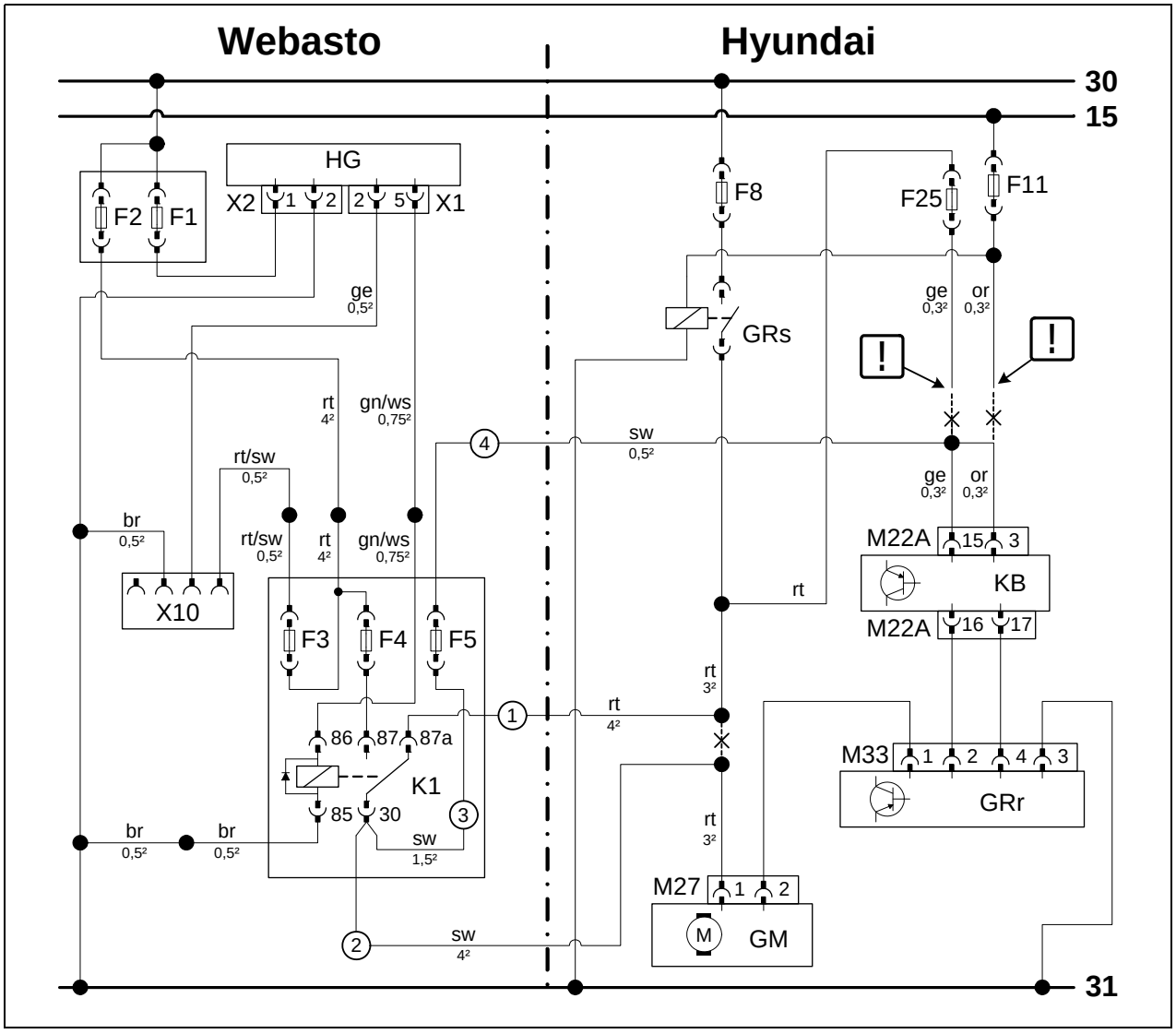


1 Wiring harness of passenger compartment relay and fuse holder
2 Wiring harness of heater

Connecting same colour wires of wiring harnesses

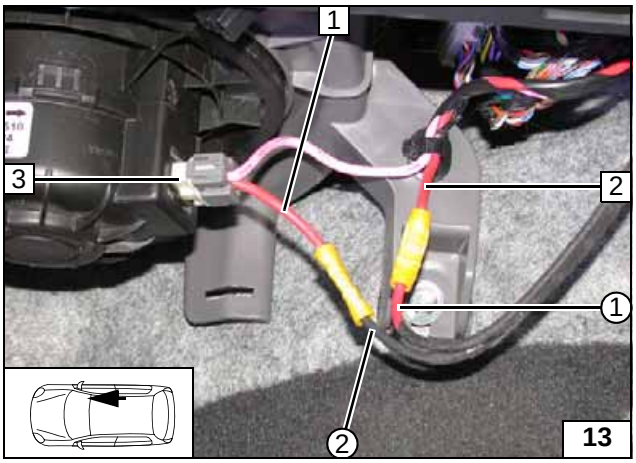
Fan Controller for Manual Air-Conditioning

Wiring diagram



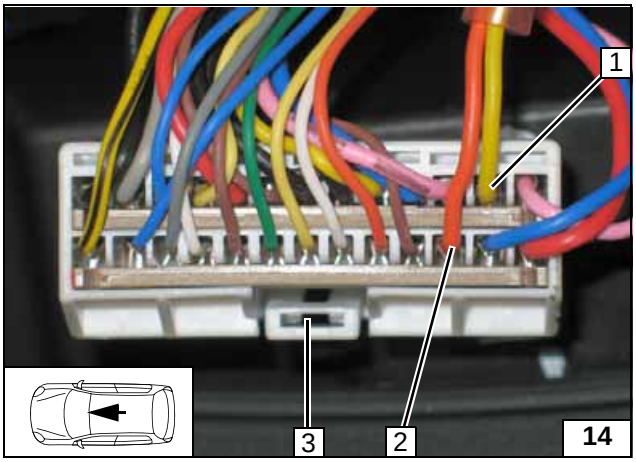
Legend

Webasto components		Vehicle components		Colours and symbols	
HG	TT-Evo heater	F11	7.5A fuse	rt	red
X1	6-pin heater connector	F8	40A fuse	sw	black
X2	2-pin heater connector	F25	10A fuse	ge	yellow
F1	20A fuse	GRs	Fan relay	gn	green
F2	30A fuse	KB	A/C control panel	or	orange
X10	4-pin connector of heater control	M22A	26-pin connector of KB	ws	white
		GRr	Fan controller	br	brown
F3	1A fuse	M33	4-pin connector of GRr		
F4	25A fuse	GM	Fan motor	!	Insulate wire end and tie back
F5	10A fuse	M27	2-pin connector of GM		
K1	Fan relay			X	Cutting point
				Wiring colours may vary.	



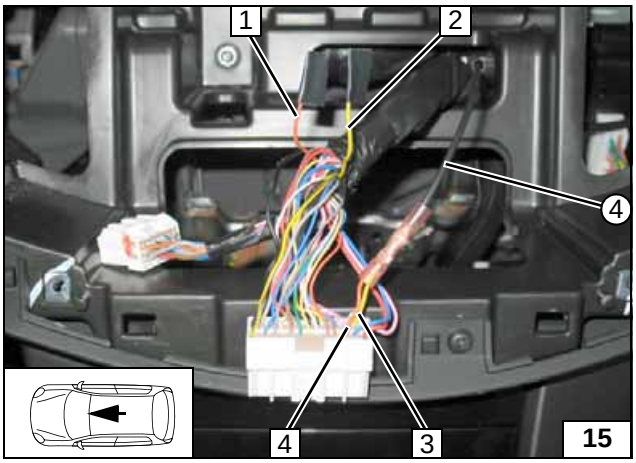
1 Red (rt) wire from connector, GM M27
2 Red (rt) wire from fan relay
3 2-pin connector M27 of fan motor
① Red (rt) wire of K1/87a
② Black (sw) wire of K1/30

Connecting fan motor



1 Yellow (ge) wire of 26-pin connector, pin 15
2 Orange (or) wire of 26-pin connector, pin 3
3 26-pin connector M22A of A/C control unit

Connecting A/C control unit

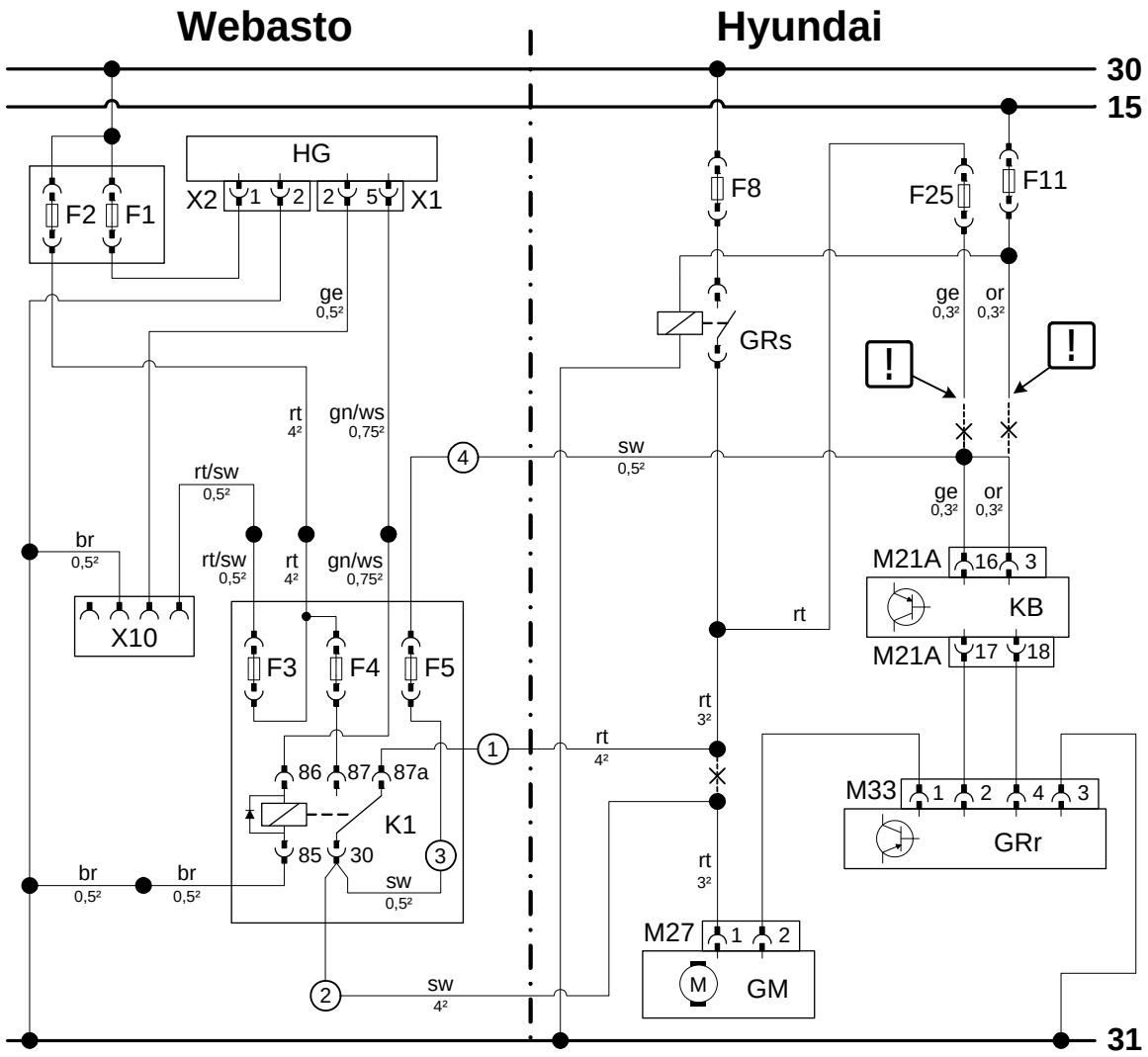


Insulate and tie back orange (or) **1** and yellow (ge) **2** wires.

3 Yellow (ge) wire of 26-pin connector, pin 15
4 Orange (or) wire of 26-pin connector, pin 3
④ Black (sw) wire of fuse F5

Connecting A/C control unit

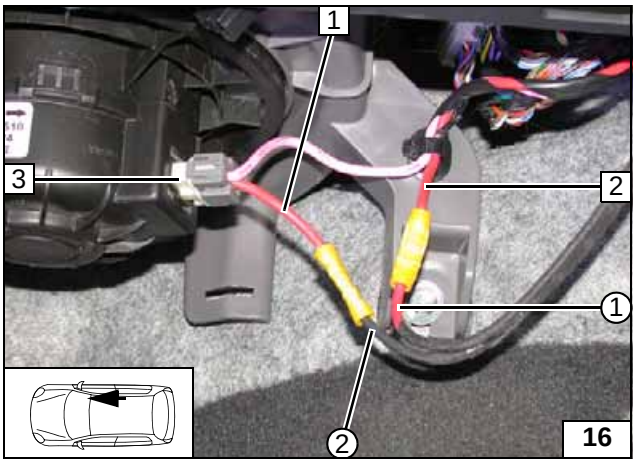
Fan Controller for Automatic Air-Conditioning



Webasto components		Vehicle components		Colours and symbols	
HG	TT-Evo heater	F11	7.5A fuse	rt	red
X1	6-pin heater connector	F8	40A fuse	sw	black
X2	2-pin heater connector	F25	10A fuse	ge	yellow
F1	20A fuse	GRs	Fan relay	gn	green
F2	30A fuse	KB	A/C control panel	or	orange
X10	4-pin connector of heater control	M21A	40-pin connector of KB	ws	white
		GRr	Fan controller	br	brown
F3	1A fuse	M33	4-pin connector of GRr		
F4	25A fuse	GM	Fan motor	!	Insulate wire end and tie back
F5	10A fuse	M27	2-pin connector of GM		
K1	Fan relay			**X**	Cutting point
				Wiring colours may vary.	

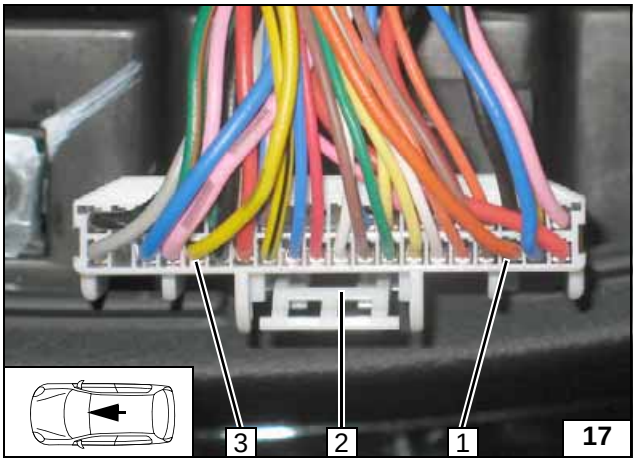
Wiring diagram

Legend



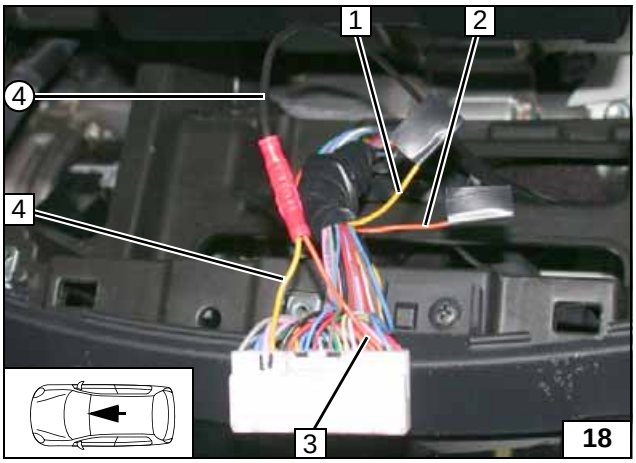
1 Red (rt) wire from connector, GM M27
2 Red (rt) wire from fan relay
3 2-pin connector M27 of fan motor
① Red (rt) wire of K1/87a
② Black (sw) wire of K1/30

Connecting fan motor



1 Orange (or) wire of 40-pin connector, pin 3
2 40-pin connector M21A of A/C control unit
3 Yellow (ge) wire of 40-pin connector, pin 16

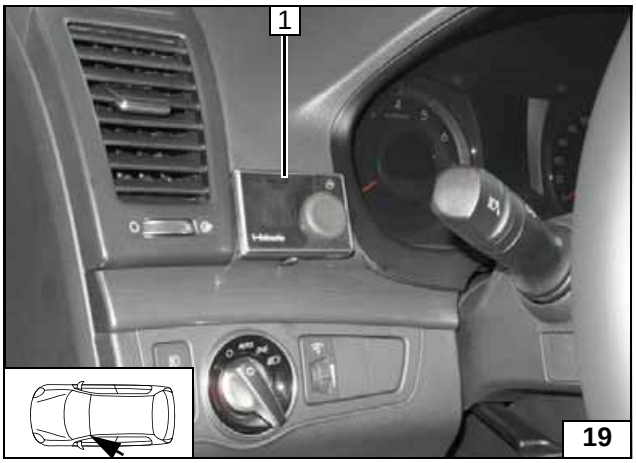
Connecting A/C control unit



Insulate and tie back yellow (ge) **1** and orange (or) **2** wires.

3 Orange (or) wire of 40-pin connector, pin 3
4 Yellow (ge) wire of 40-pin connector, pin 16
④ Black (sw) wire of fuse F5

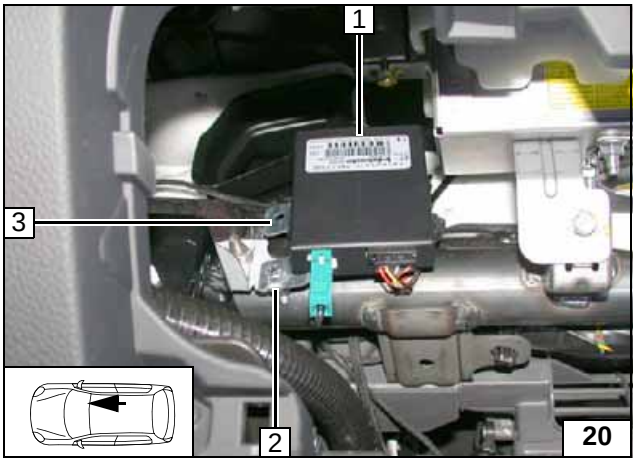
Connecting A/C control unit



MultiControl CAR Option

1 MultiControl CAR

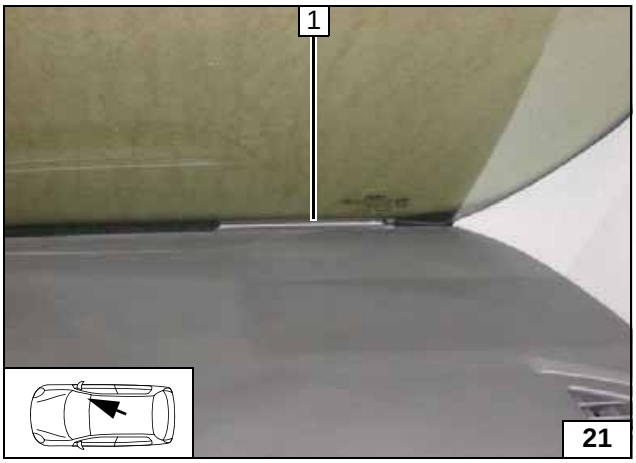
Installing MultiControl CAR



Remote Option (Telestart)

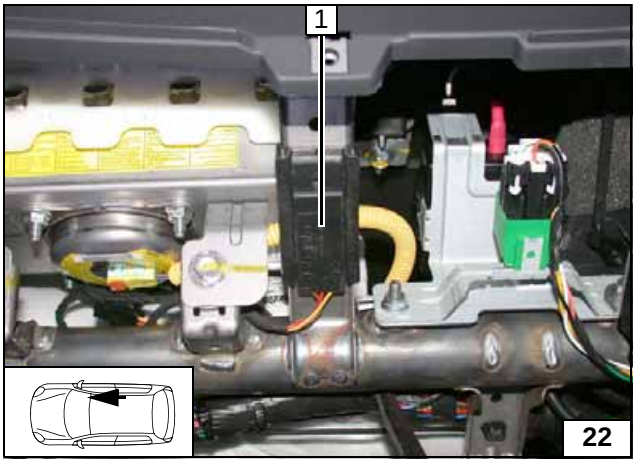
1 Receiver
2 M6x12 bolt, flanged nut, existing hole
3 Align bracket

Installing receiver



1 Aerial

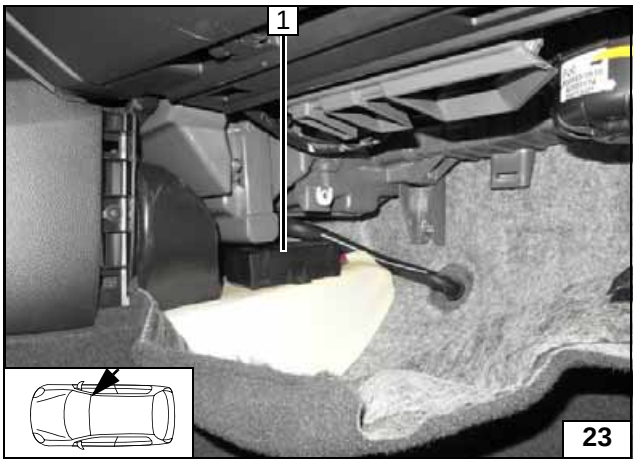
Installing aerial

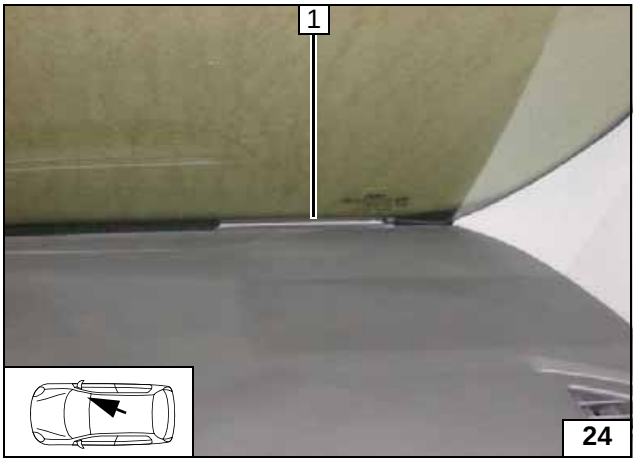


Temperature sensor T100 HTM

Fasten temperature sensor **1** using double-sided adhesive tape.

Installing temperature sensor





Thermo Call Option

Fasten receiver **1** with double-sided adhesive tape.

1 Aerial

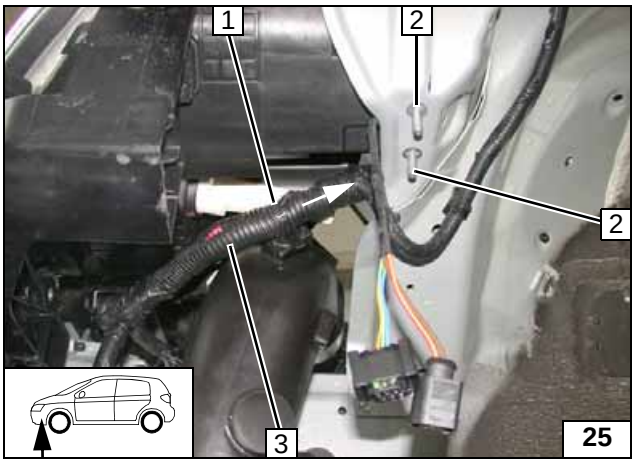
Installing receiver

Installing aerial

Preparing Installation Location

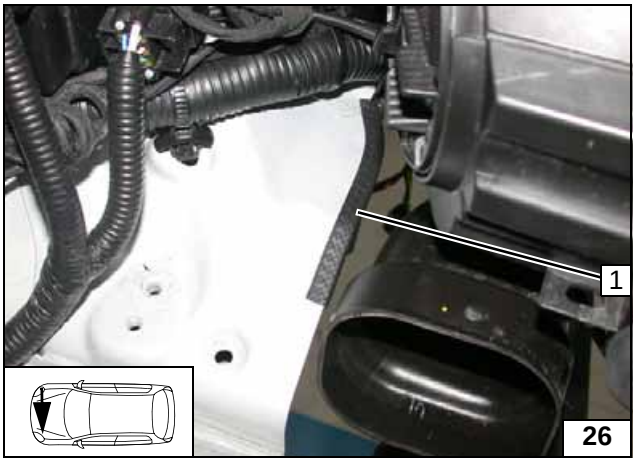
Loosen cable tie **1**, push original vehicle wiring harness **3** back by 20mm and close cable tie **1** again.

2 M6x20 bolt, pin lock [2x]



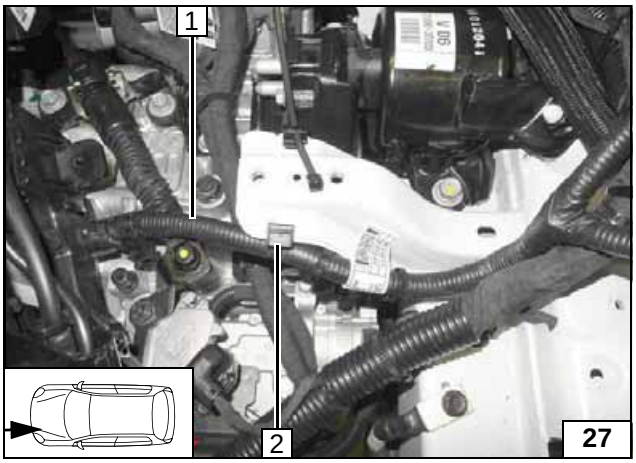
Inserting bolts

1 Edge protection



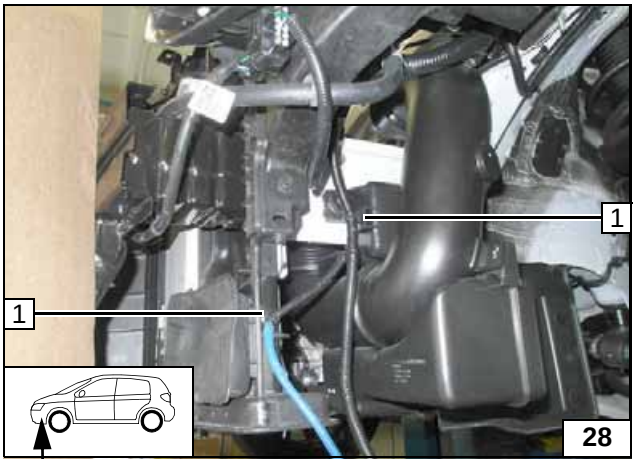
Installing edge protection

Route original vehicle wiring harness **1** as shown, fasten using clip-type cable tie **2**.

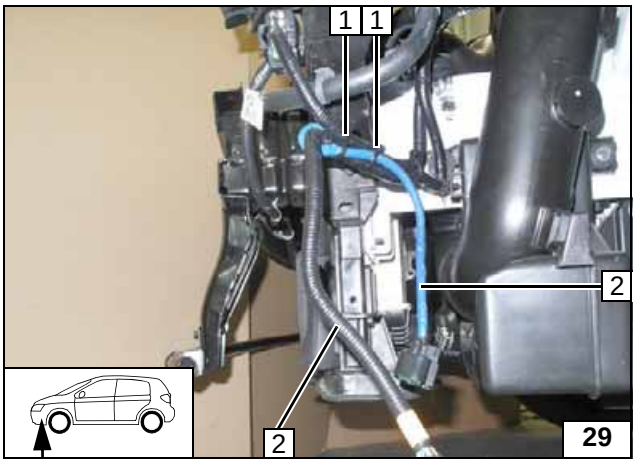


Shifting wiring harness

Remove clip-type cable tie **1** [2x] and discard.



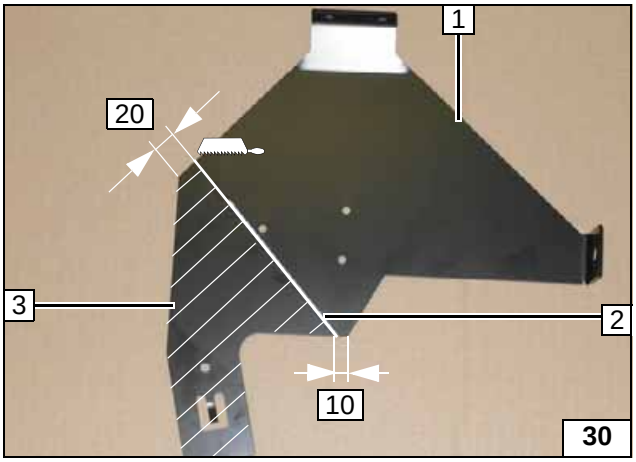
Detaching wiring harness



Tie back wiring harness **2** [2x] as shown, fasten using cable tie **1** [2x].

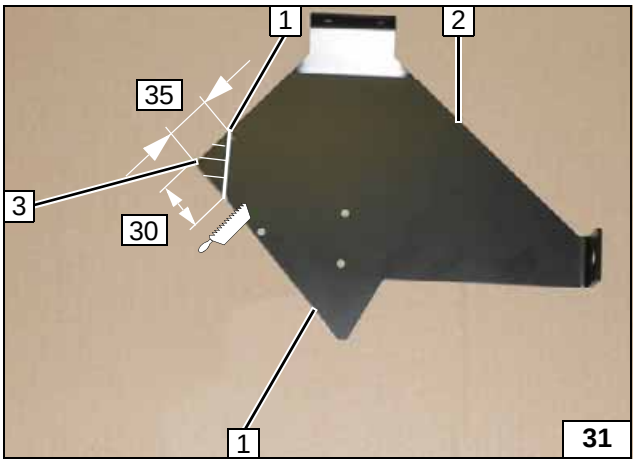
Tying back wiring harness

Preparing Bracket



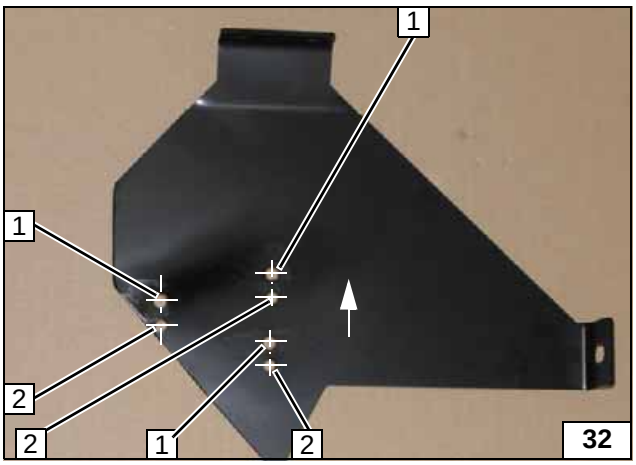
Copy cutting line **2** onto bracket A **1** as shown, cut off part **3** and discard. Protect the cut edge with suitable corrosion protection.

Preparing bracket A



Copy cutting line **1** onto bracket A **2** as shown, cut off part **3** and discard. Protect the cut edge with suitable corrosion protection.

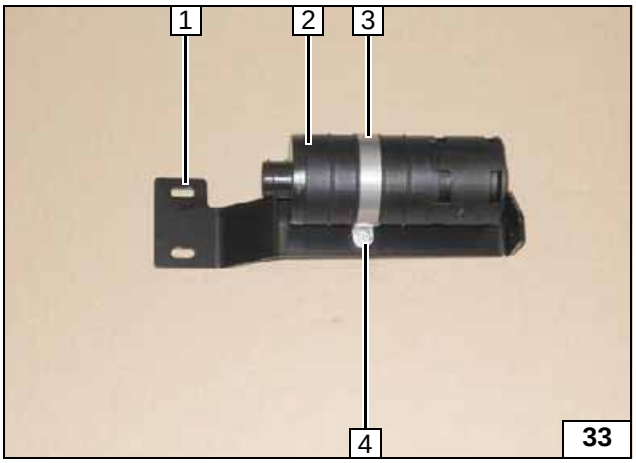
Preparing bracket A



Move holes **2** [3x] in the direction of the arrow by 13mm.

1 Copy hole pattern, 6mm dia. hole [3x]

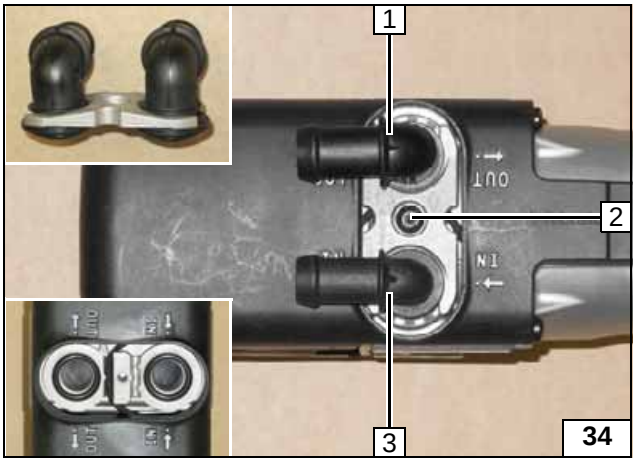
Copying hole pattern



1 Bracket B
2 Silencer
3 51mm dia. clamp
4 M5x16 bolt, flanged nut

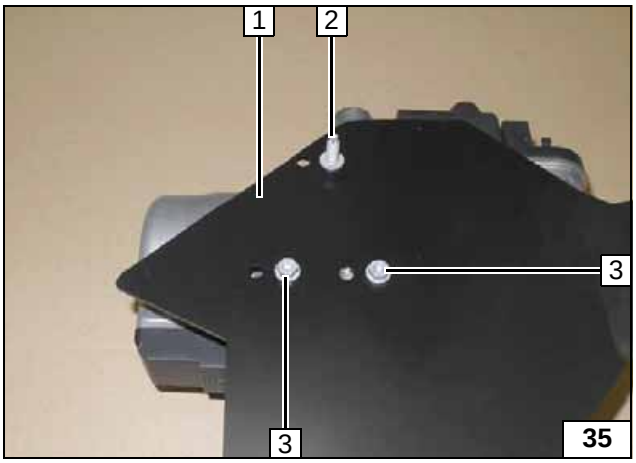
Preparing bracket B

Preparing Heater



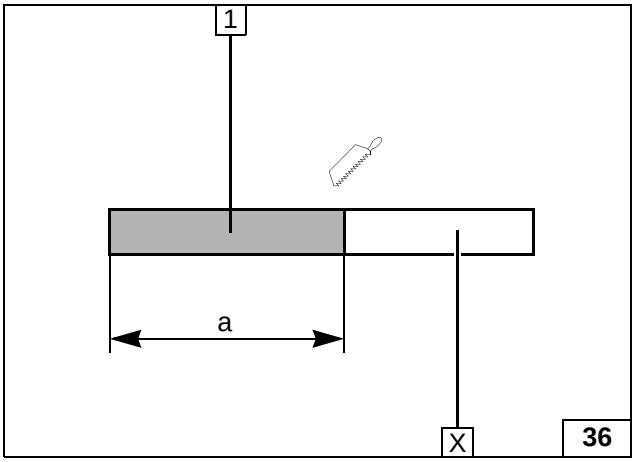
1 18mm dia. water connection piece, sealing ring
2 5x15 self-tapping bolt, retaining plate of water connection piece
3 16mm dia. water connection piece, sealing ring

Mounting water connection piece



1 Bracket A
2 M5GFx11 x M6x15.5 stud bolt
3 5x13 self-tapping bolts [2x]

Installing bracket



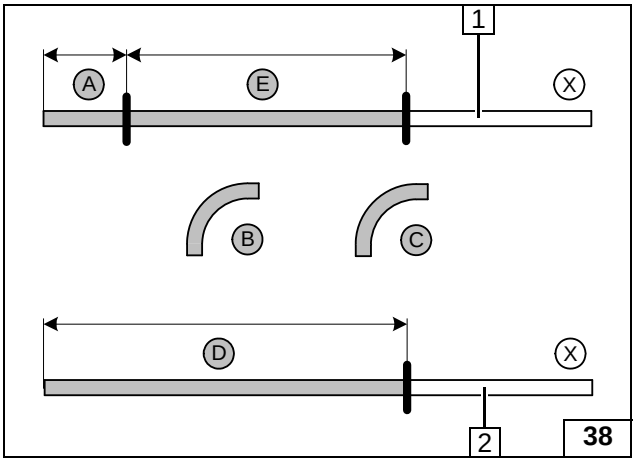
Discard section **X**.

1 Combustion air pipe
a = 290

Cutting combustion air pipe to length

1 Combustion air pipe

Premounting combustion air pipe



Discard sections **X**.
Hoses **B, C** = 90°, 18mm dia. moulded hose

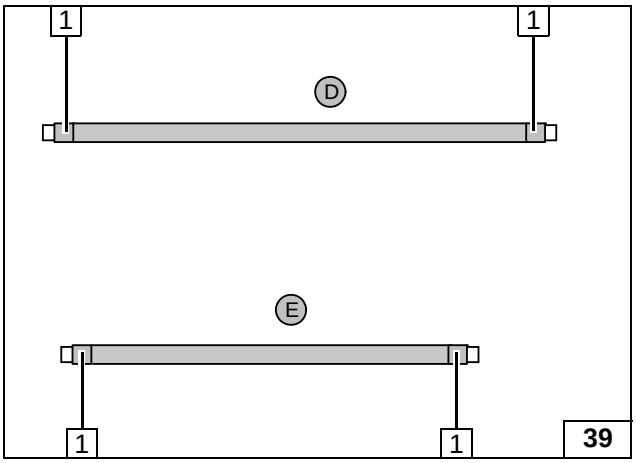
Hose **1** = 18mm dia.

A = 190
E = 900

Hose **2** = 15mm dia.

D = 810

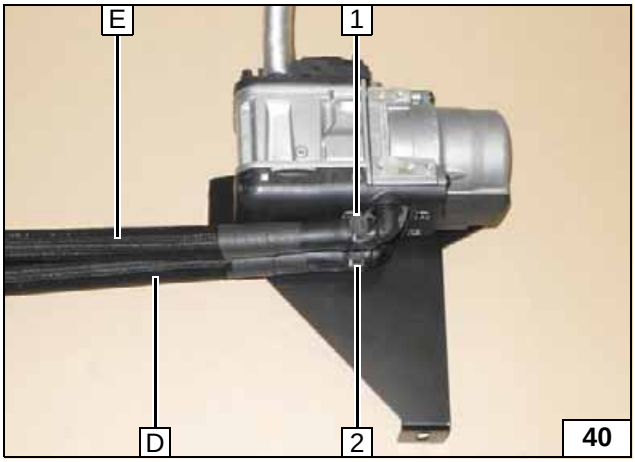
Cutting hoses to length



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

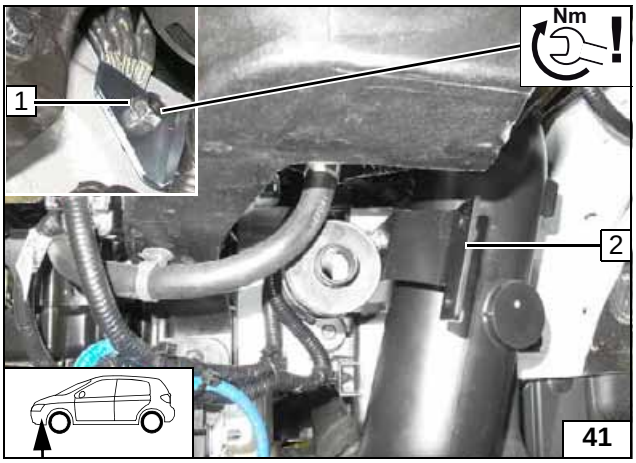
1 50 mm long heat shrink plastic tubing [4x]

Preparing hoses



1 25mm dia. spring clip
2 22mm dia. spring clip

Premounting hoses

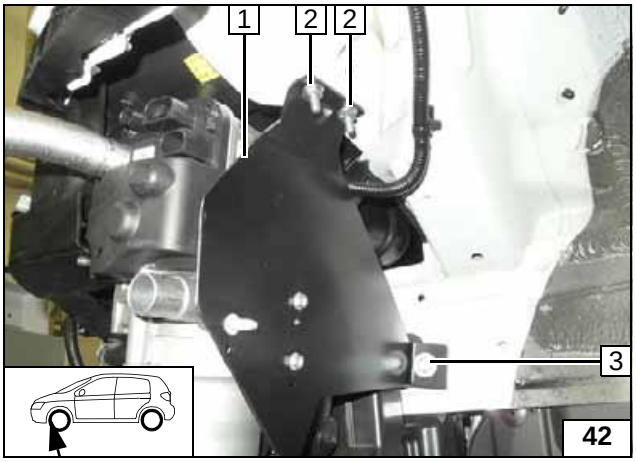


1 Original vehicle bolt, earth support point
2 Bracket B

Installing bracket B

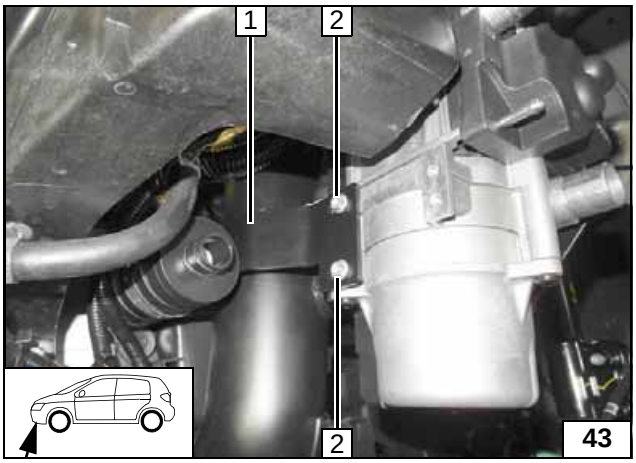
Installing Heater

Remove original vehicle bolt at position **3**. Fasten bracket A **1** with M6x35 bolt, large diameter washer and resonator at original vehicle threaded hole at position **3**.



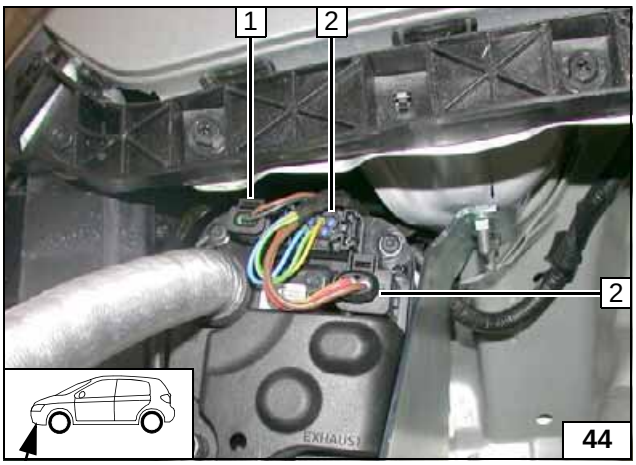
2 Flanged nut [2x]

Installing heater



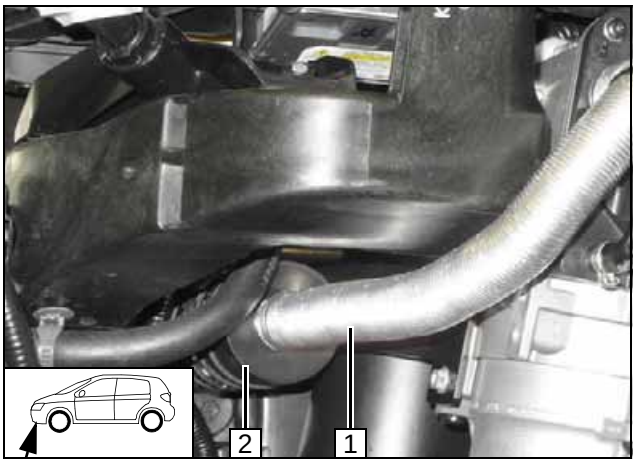
1 Bracket B
2 5x13 self-tapping bolt [2x]

Fastening bracket B



1 Connector of circulating pump wiring harness
2 Heater wiring harness connector [2x]

Installing wiring harnesses



Combustion Air

Install combustion air pipe **1** by turning silencer **2**.

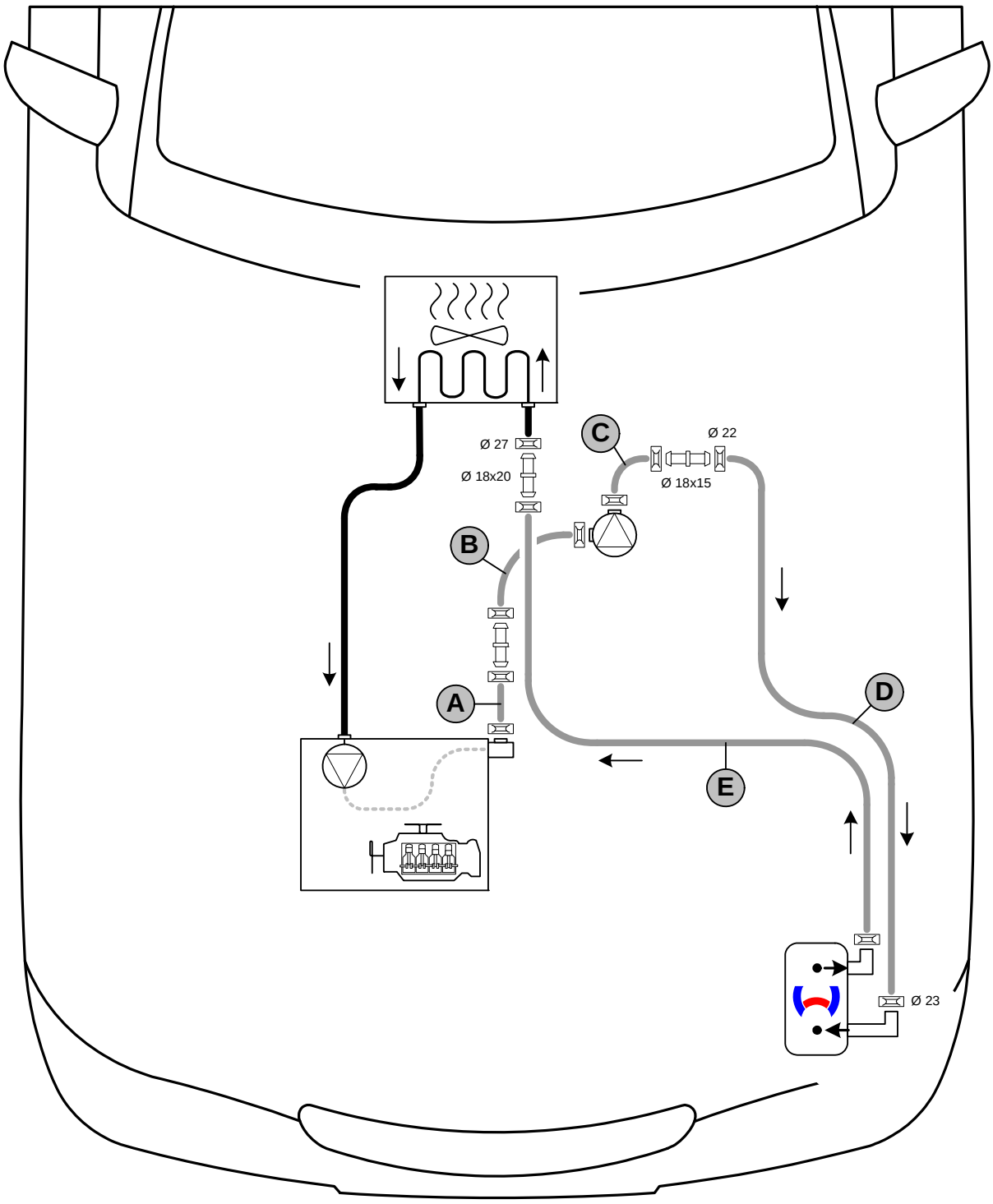
Installing combustion air pipe

Coolant Circuit

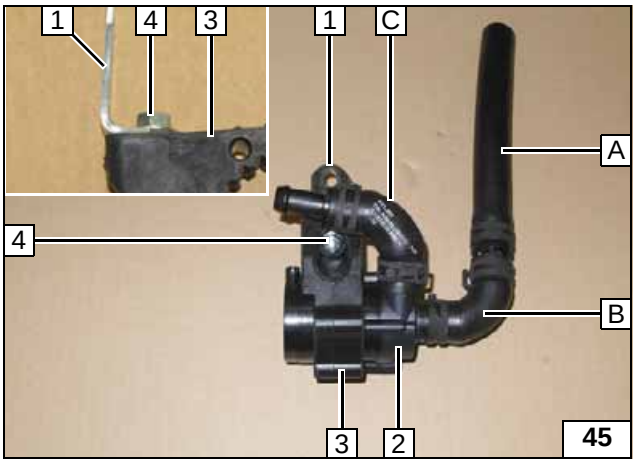
Any coolant running off should be collected in an appropriate container. Route hoses kink-free. Unless specified otherwise, always fasten using cable ties. Position clamps so that other hoses cannot be damaged. The heater must be filled with coolant when installing the hoses.

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

Hose routing diagram

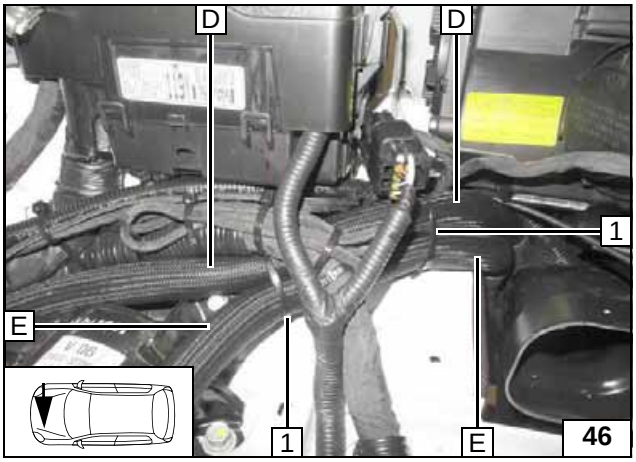


All spring clips without a specific designation = 25 mm dia.
Connecting pipe without a specific designation = 18x18mm dia.



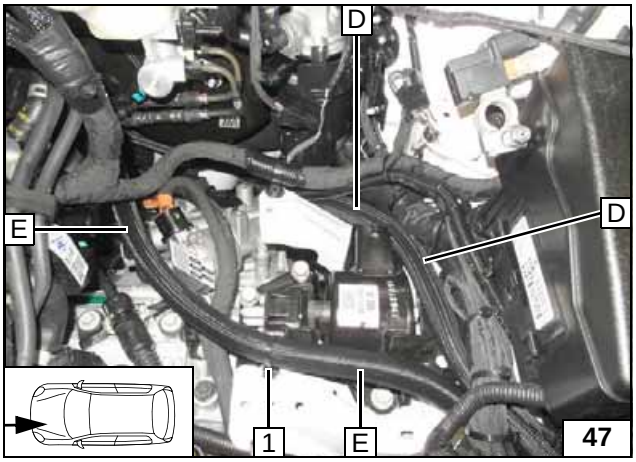
1 Angle bracket
2 Circulating pump
3 Circulating pump mount
4 M6x25 bolt, flanged nut

Premounting circulating pump



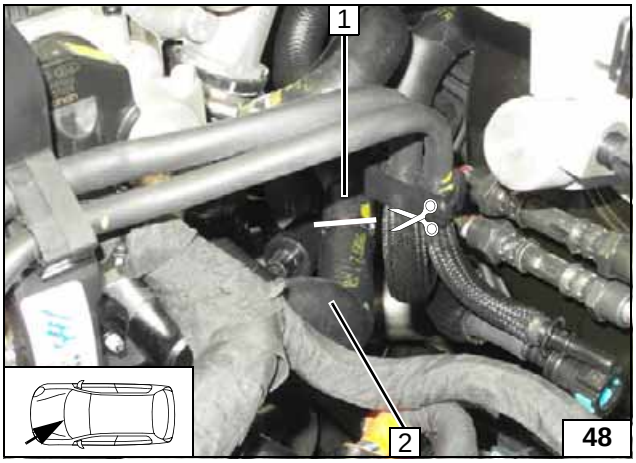
1 Cable tie [2x]

Routing in engine compartment



1 Clip-type cable tie

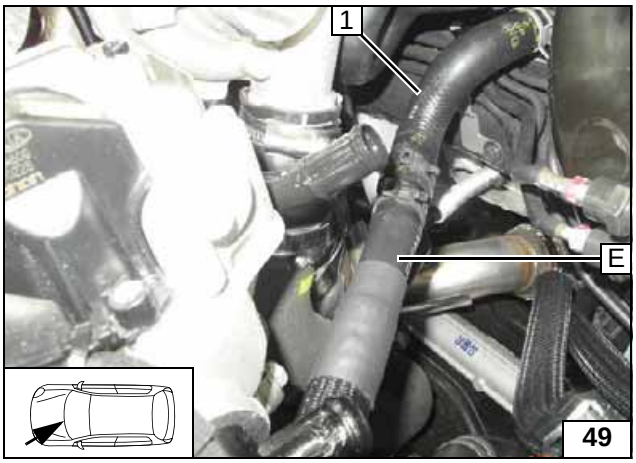
Routing in engine compartment



Cut hose of engine outlet / heat exchanger inlet **1** at the marking.
Discard hose section of engine outlet **2**.

1 Hose section of heat exchanger inlet

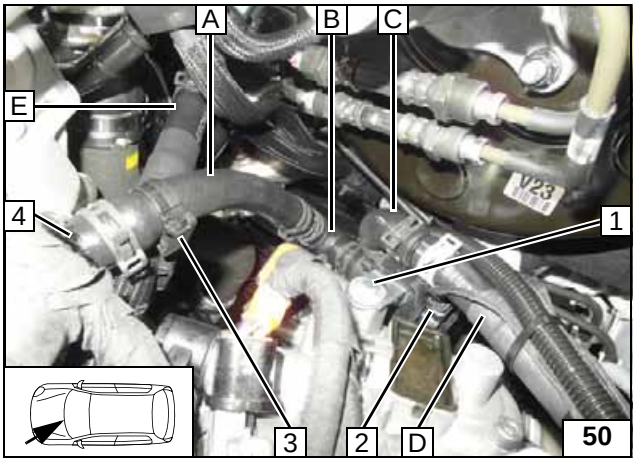
Cutting point



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

1 Hose of heat exchanger inlet

Connecting heat exchanger inlet



1 M6x20 bolt, large diameter washer
2 Connector of circulating pump wiring harness
3 Hose bracket
4 Connection piece of engine outlet

Installation and connection of circulating pump

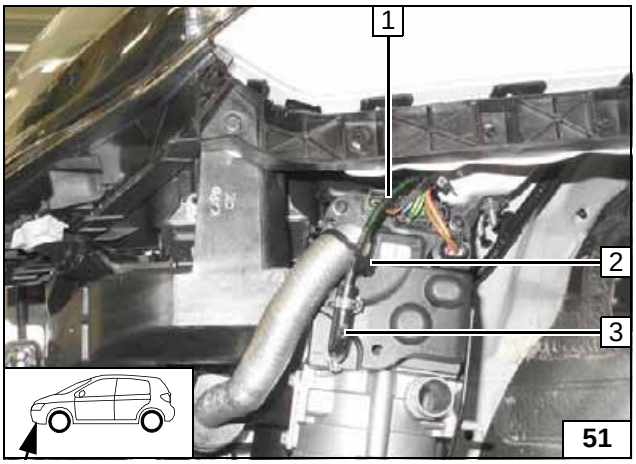
Fuel

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.

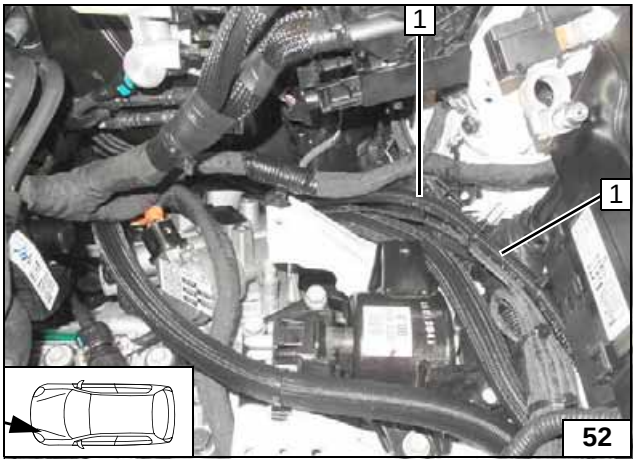
Route fuel line and metering pump wiring harness so that they are protected against stone impact.
Unless specified otherwise, always fasten using cable ties.
Provide rub protection for fuel line and wiring harness in areas where there are sharp edges.

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



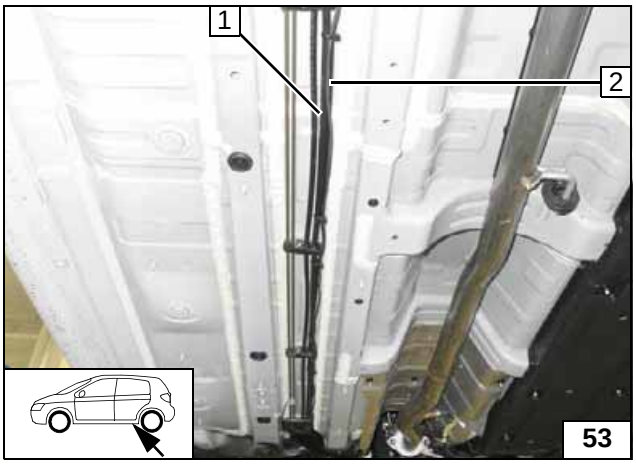
1 Fuel line
2 Cable tie
3 90° moulded hose, 10 mm dia. clamp [2x]

Connecting heater



Pull fuel line and wiring harness of heater into corrugated tube **1**, route to underbody and secure using cable ties.

Routing lines in engine compartment

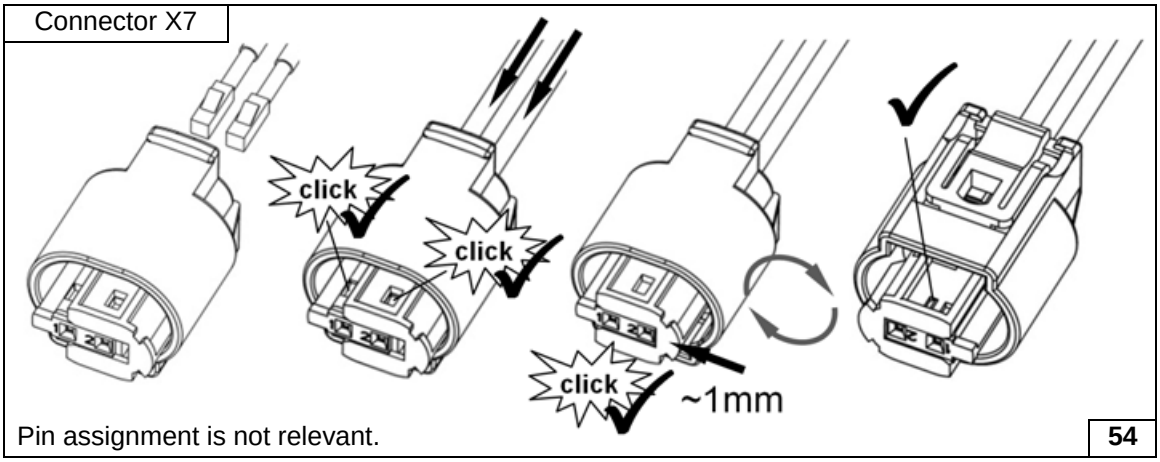


1 Fuel line
2 Wiring harness of metering pump

Routing lines on underbody

Completing metering pump connector

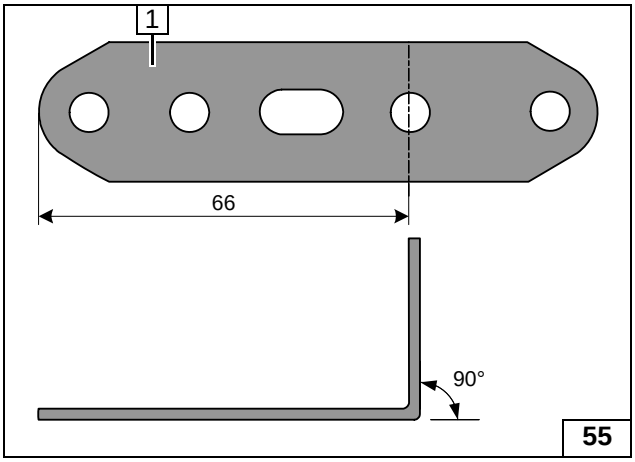
Connector X7



Pin assignment is not relevant.

54

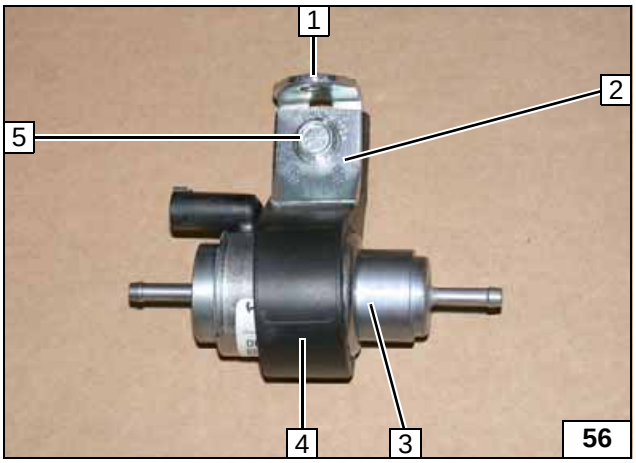
Bending perforated bracket



55

1 Perforated bracket

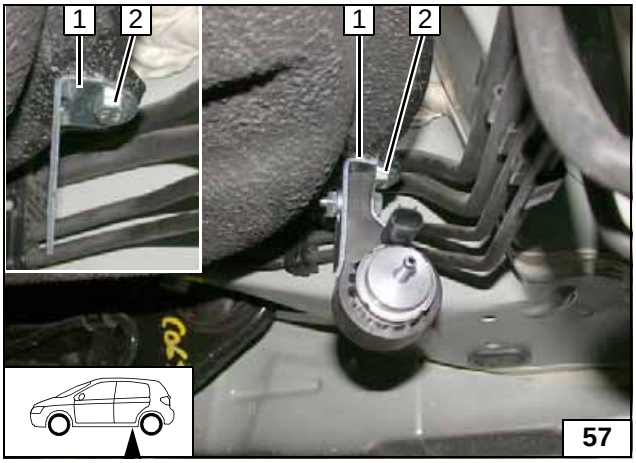
Premounting metering pump



56

1 Perforated bracket
2 Support angle bracket
3 Metering pump
4 Metering pump mount
5 M6x25 bolt, flanged nut

Installing metering pump



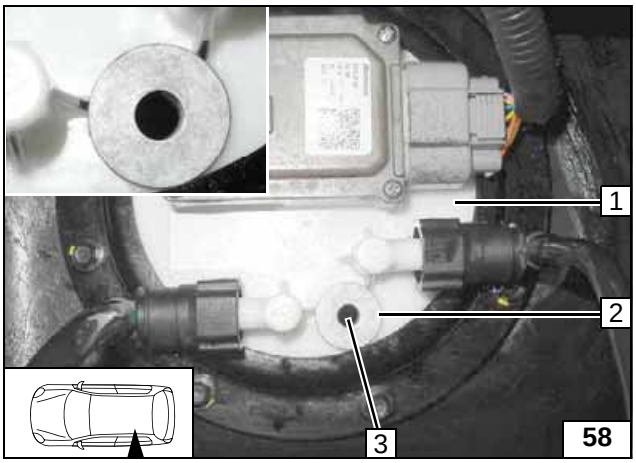
57

1 Perforated bracket
2 M6x20 bolt, flanged nut, existing hole

Installing FuelFix

Work steps F1, F2 and F3.

1 Fuel tank sending unit
2 Position washer with outer dia. d_a = 21.6mm as template against the raised part
3 Hole pattern, hole made with provided dril

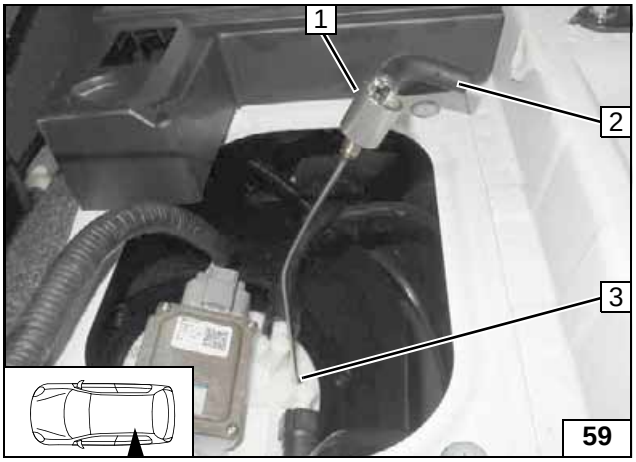


Copying hole pattern

Work steps F4 and F5.

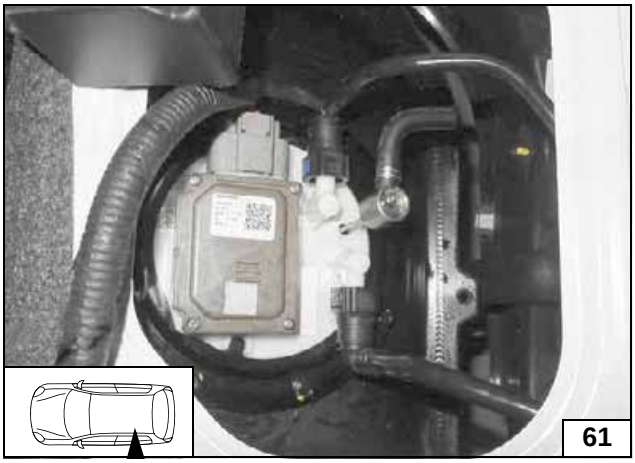
Bend FuelFix **1** according to template and cut to length.
Insert into hole **3**.

2 90° moulded hose, 10mm dia. clamp

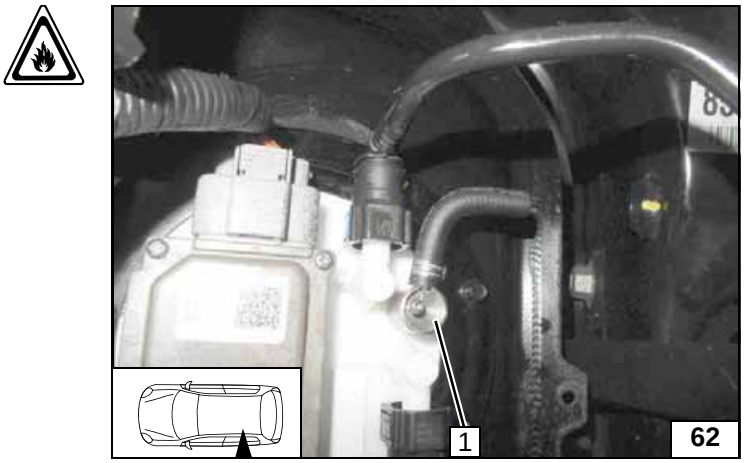


Hole for FuelFix

Inserting FuelFix



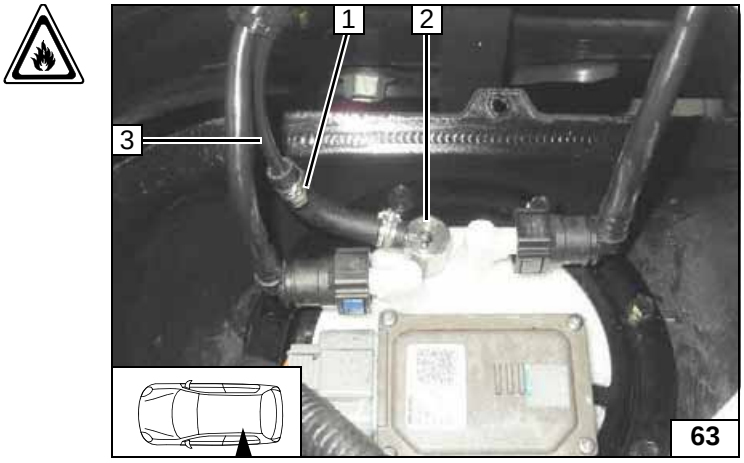
Inserting FuelFix



Work steps F5.3 and F5.4.

Align FuelFix **1** as shown.

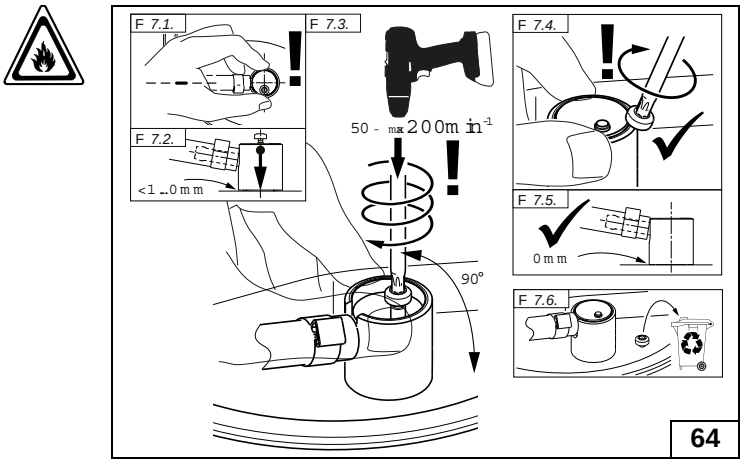
Aligning FuelFix



Work step F6.

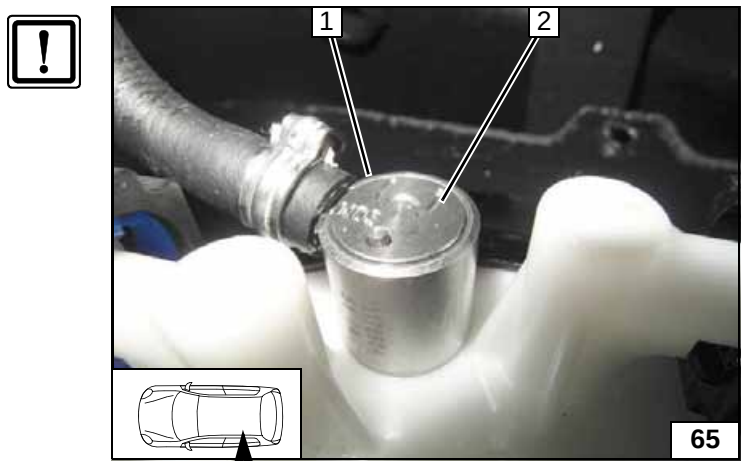
1 10 mm dia. clamp
2 FuelFix
3 Fuel line

Connecting fuel line



Work step F7.

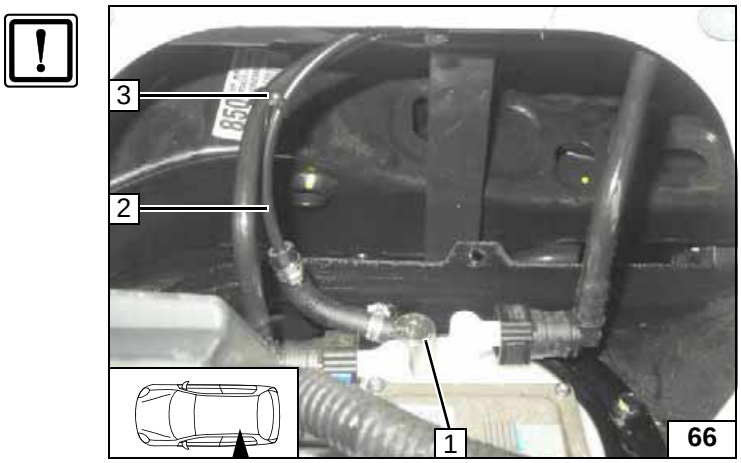
Mounting FuelFix



Work step F8.

Ensure firm seating of FuelFix and positioning of clamping piece **2** with respect to upper edge **1** of the housing.

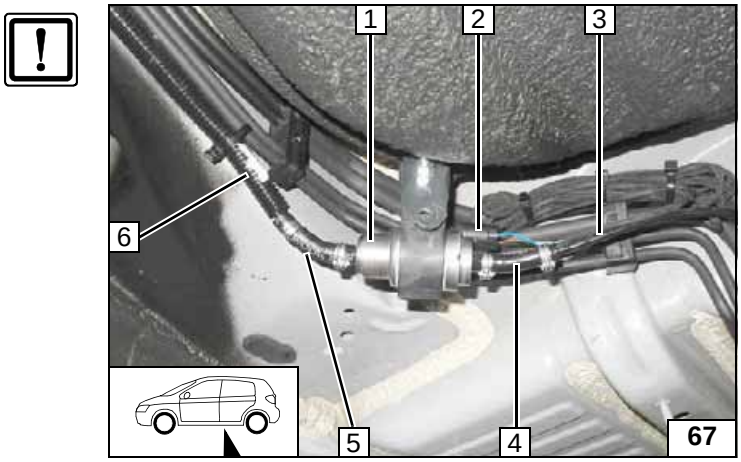
Checking final position



Work step F8.

1 FuelFix mounted
2 Fuel line of FuelFix
3 Cable tie as tension relief

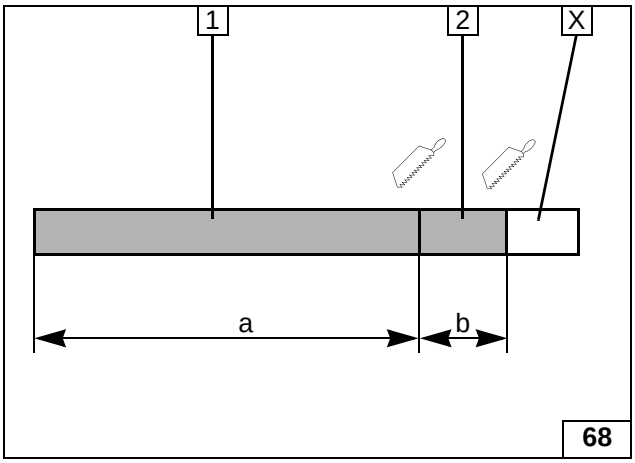
Securing fuel line



Ensure sufficient distance from neighbouring components, correct if necessary.

1 Metering pump
2 Heater wiring harness connector
3 Fuel line of heater
4 Hose section, 10mm dia. clamp [2x]
5 Hose section, 10mm dia. clamp [2x]
6 Fuel line of FuelFix in corrugated tube

Connecting metering pump

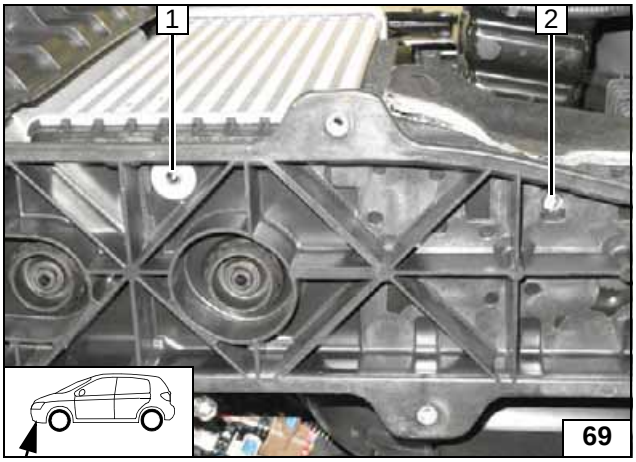


Exhaust Gas

X

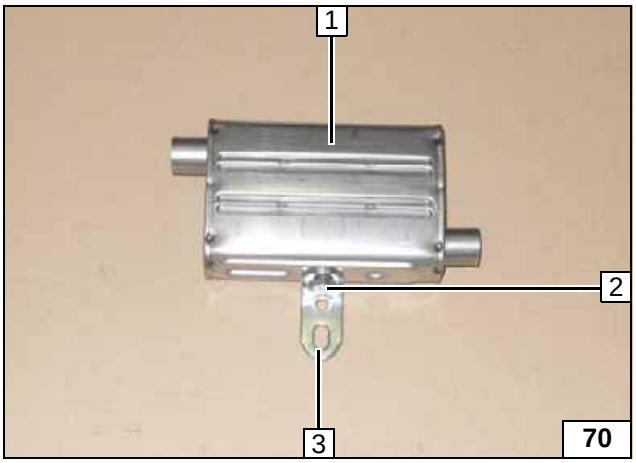
1 Exhaust pipe
a = 930
2 Exhaust end section
b = 110

Preparing exhaust pipe



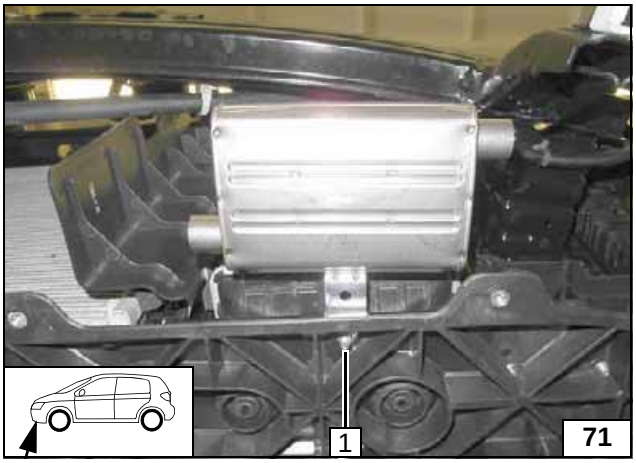
1 Position washer with outer dia. d_a = 21.6mm as template against the raised part, copy hole pattern, 7mm hole
2 Copy hole pattern in the centre of the beading, 7 mm dia. hole

Copying hole pattern



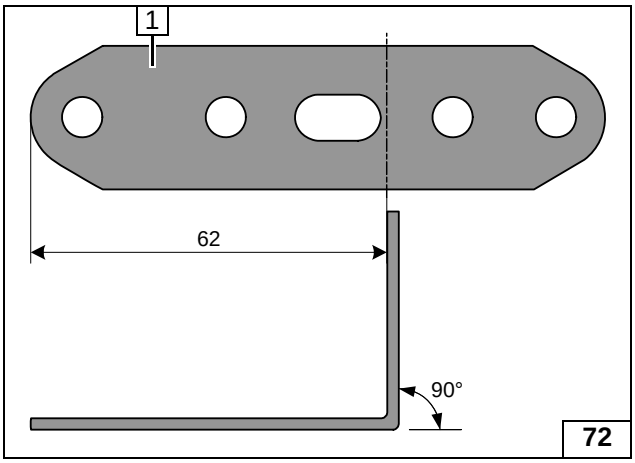
1 Silencer
2 M6x16 bolt, spring lockwasher
3 Angle bracket

Premounting silencer



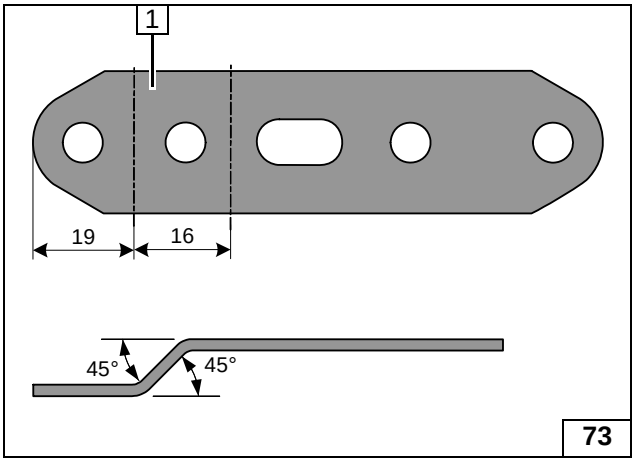
1 M6x20 bolt, flanged nut

Installing silencer



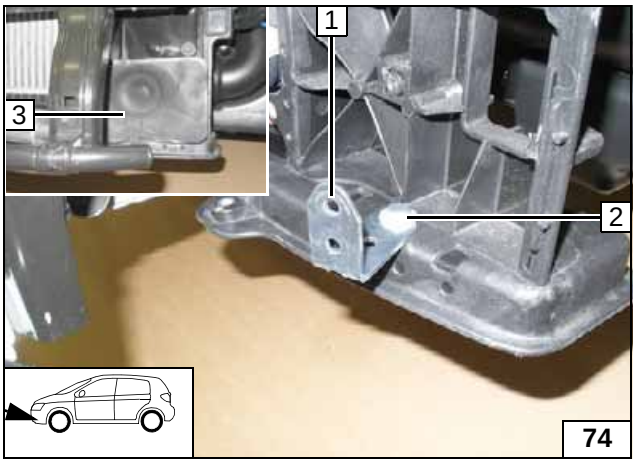
1 Perforated bracket 1

Bending perforated bracket 1



1 Perforated bracket 2

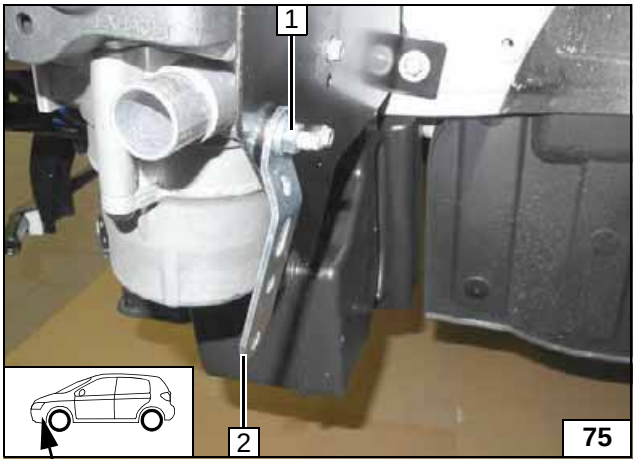
Bending perforated bracket 2



Insulation **3** removed for installing purposes. Will be installed again afterwards.

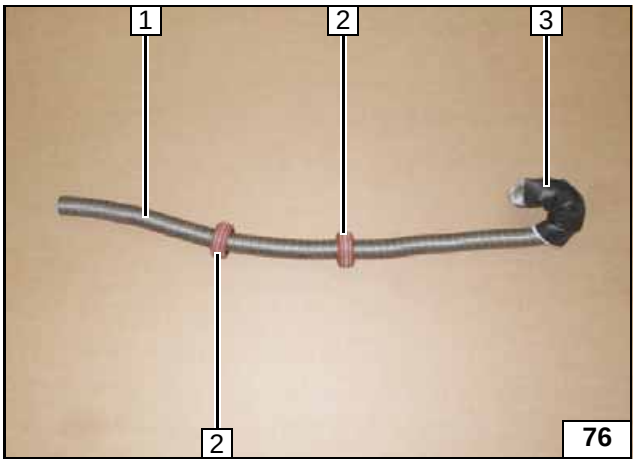
1 Perforated bracket 1
2 M6x20 bolt, large diameter washer, flanged nut

Installing perforated bracket 1



1 Flanged nut
2 Perforated bracket 2

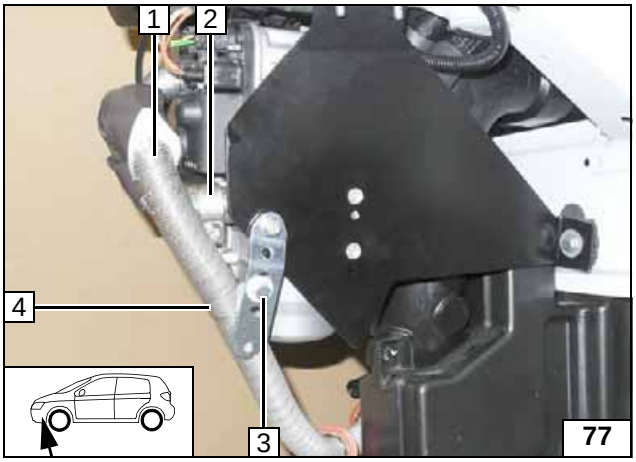
Installing perforated bracket 2



Bend exhaust pipe **1** as shown.

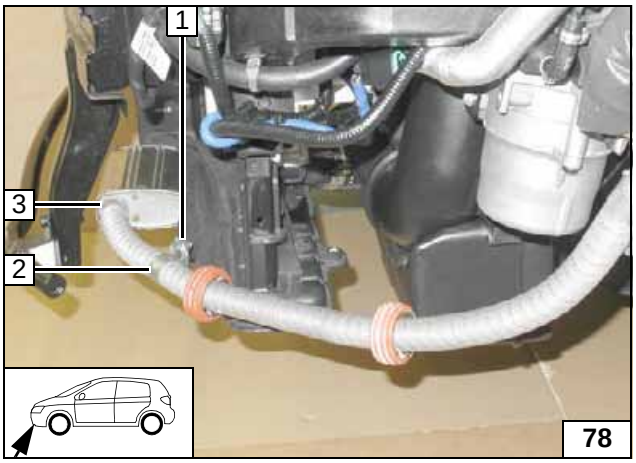
2 Spacer bracket [2x]
3 Exhaust insulation

Preparing exhaust pipe



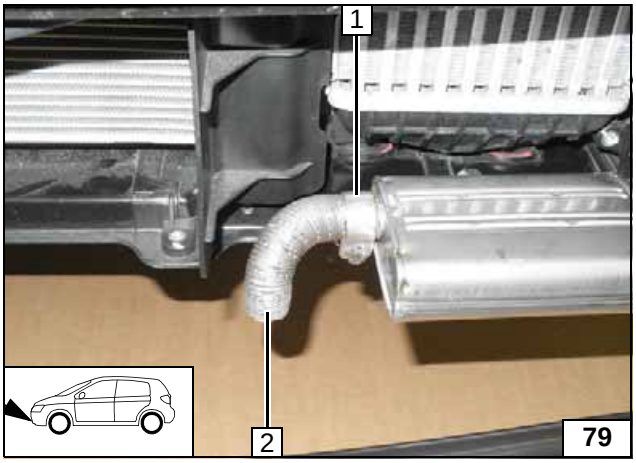
1 Exhaust pipe
2 Hose clamp
3 M6x20 bolt, large diameter washer, flanged nut
4 P-clamp

Installing exhaust pipe



1 M6x16 bolt, flanged nut
2 P-clamp
3 Hose clamp

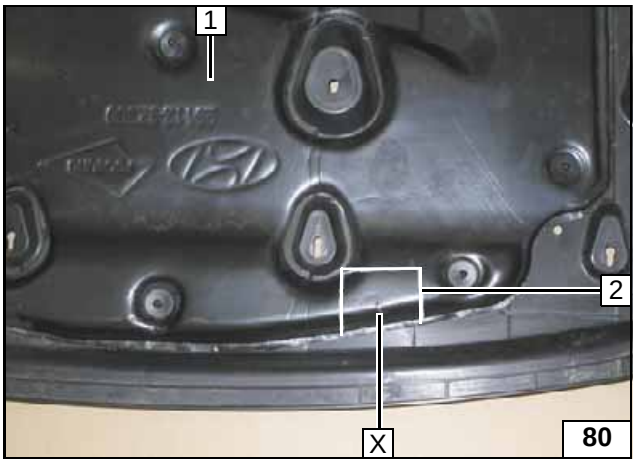
Installing exhaust pipe



Ensure sufficient distance from neighbouring components, correct if necessary.

1 Hose clamp
2 Exhaust end section

Installing exhaust end section

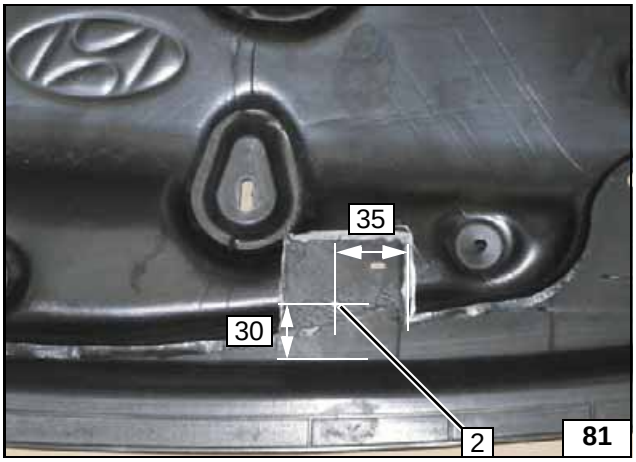


Cut out insulation **2** as shown.
Discard section **X**.

1 Underride protection

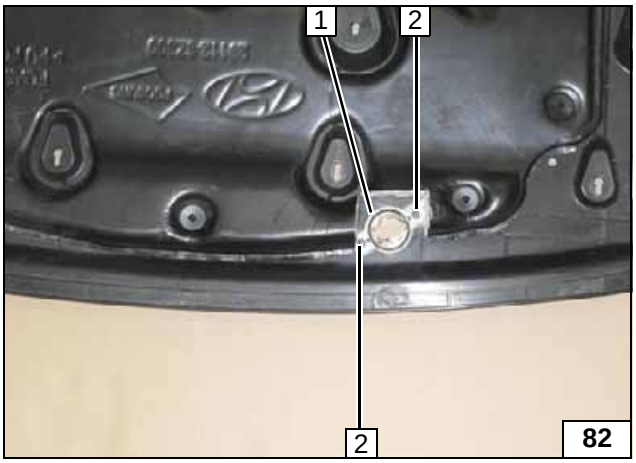
Adapting underride protection

Installing Exhaust End Fastener



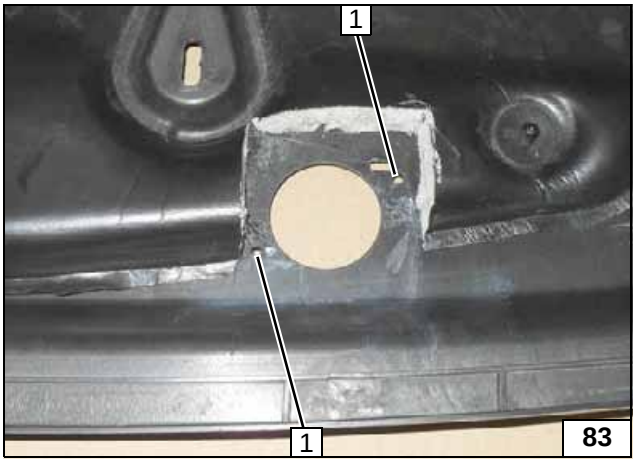
2 Hole (according to work step 1 of the installation instructions)

Hole in underride protection



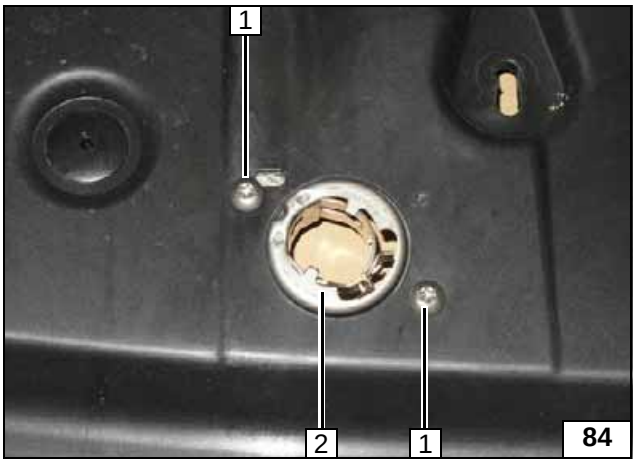
Position exhaust end fastener **1** as per work step 3 of the installation instructions and copy hole pattern **2** [2x].

Copying hole pattern



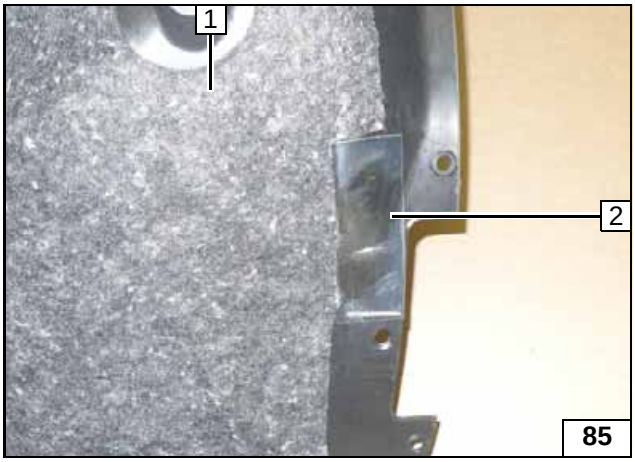
Hole **1** [2x] as per work step 4 of the installation instructions.

Holes in underride protection



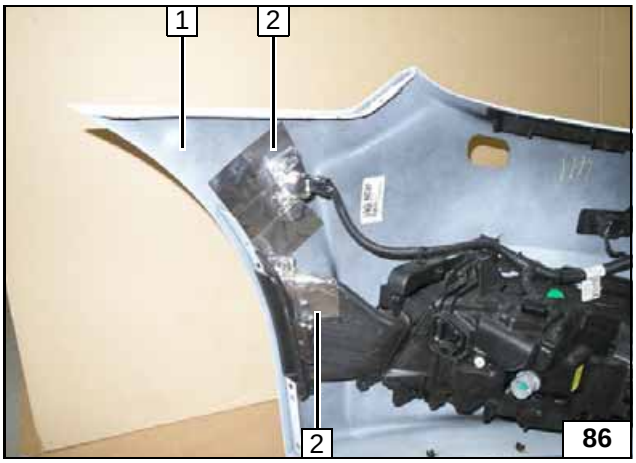
1 Self-tapping screw 5x13 [2x] according to work step 5 of the installation instructions
2 Exhaust end fastener

Installing exhaust end fastener



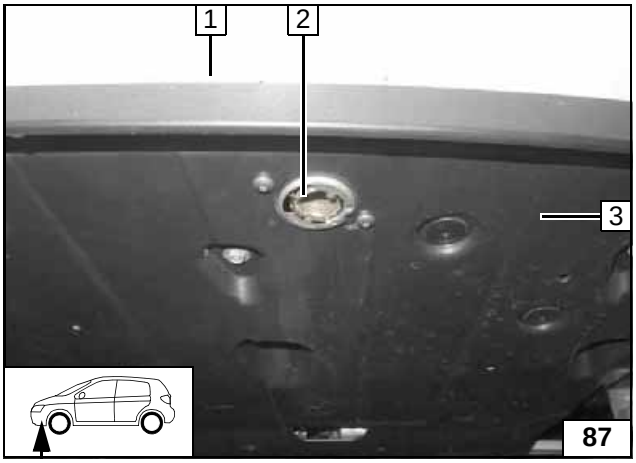
Cut out insulation of wheel-well inner panel **1** as shown, apply thermal insulation film **2**.

Applying thermal insulation film



Apply thermal insulation film **2** in bumper **1**.

Applying thermal insulation film



Install bumper **1**. Install underride protection **3**. Mount exhaust end section **2** according to work step 6 - 8 of the installation instructions.

Installing exhaust end section

Final Work

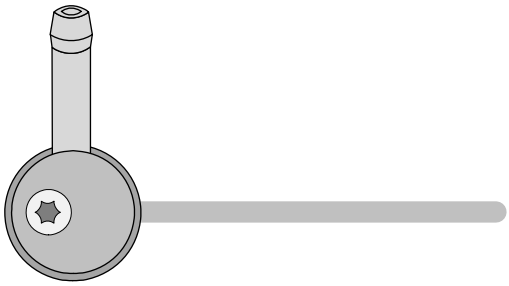
Reassemble the components in reverse order. Check all hoses, clamps and all electrical connections for firm seating. Insulate and tie back all loose lines.
Only use manufacturer-approved coolant. Spray the heater components with anti-corrosion wax (Tectyl 100K, Order No. 111329).

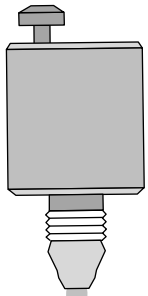
-
- **Connect the battery.**
- **Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.**
- **Program MultiControl CAR, teach Telestart transmitter.**
- **Make settings on A/C control panel according to the 'Operating Instructions for End Customer'.**
- **Place the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

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

FuelFix Template

Top view





100mm

Scale 1:1

Compare size of the printed version with dimension lines.
Permitted tolerance a maximum of 2%.

Set the printer settings to ‘no margin’ or ‘minimise margins’ and 100% of the normal size.

100mm

0

Operating Instructions for Manual Air-Conditioning

Please remove page and add to the vehicle operating instructions.

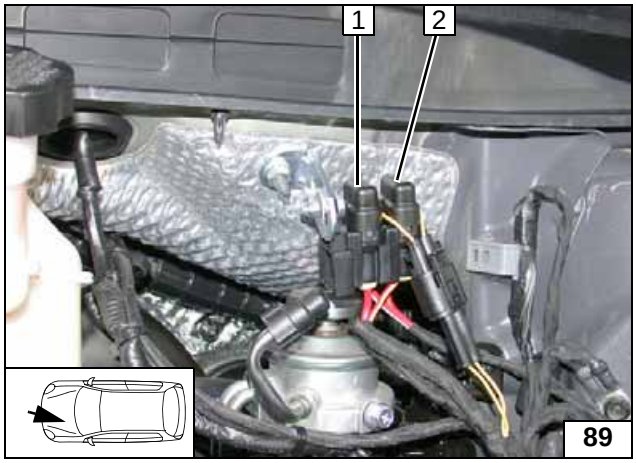
Note:
We recommend matching the heating time to the driving time.
Heating time = driving time
Example:
For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

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:

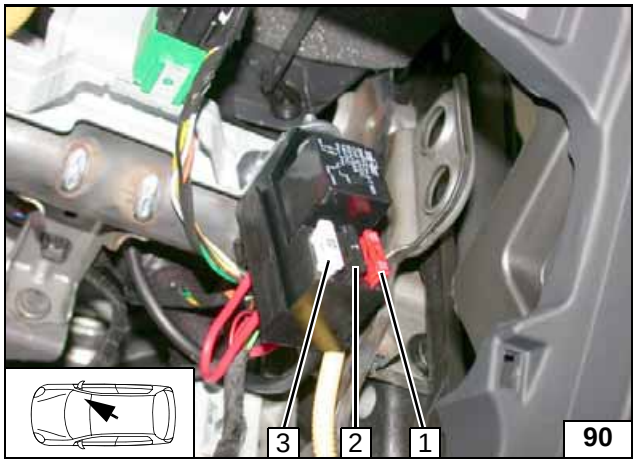
1 Set fan to level ‘2’, or max. ‘3’
2 Air outlet to windscreen/ footwell.
3 Set temperature to ‘max.’

A/C control panel



1 30A main fuse F2 of passenger compartment
2 20A heater fuse F1

Engine compartment fuses



1 10A additional fuse F5
2 1A fuse F3 of heater control
3 25A fan fuse F4

Passenger compartment fuses

Operating Instructions for Automatic A/C

Please remove page and add to the vehicle operating instructions.

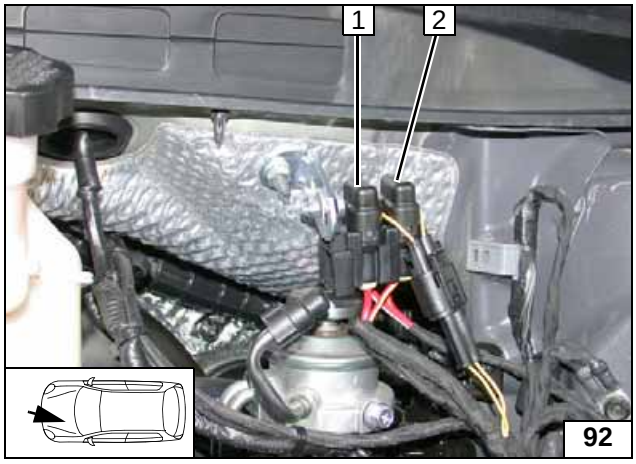
Note:
We recommend matching the heating time to the driving time.
Heating time = driving time
Example:
For a driving time of approx. 20 min. (in one direction), we recommend not exceeding a switch-on time of 20 min.

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:

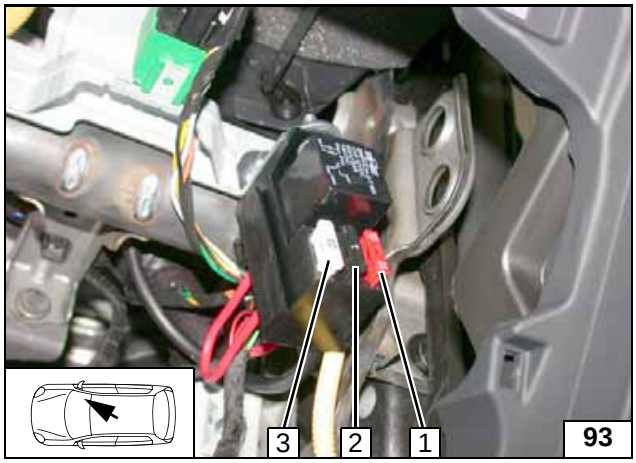
1 Air outlet faces ‘upward’
2 Set temperature on both sides to ‘HI’
3 Set fan to level ‘1’, or max. ‘2’

A/C control panel



1 30A main fuse F2 of passenger compartment
2 20A heater fuse F1

Engine compartment fuses



1 10A additional fuse F5
2 1A fuse F3 of heater control
3 25A fan fuse F4

Passenger compartment fuses