

Thermo Top Evo Parking Heater



Installation Documentation Mercedes Benz A-Class (W176), B-Classse (W246), CLA (C117) and GLA (X156)

Validity

Manufacturer Model		Туре	EG-BE No. / ABE		
Mercedes Benz A-Class		W176	e1 * 2001 / 116 * 0470 *		
Mercedes Benz A-Class		A-Class	W176	e1 * 2007 / 46 * 0928 *	
					- · ·
Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm ³	Engine code
A 160 CDI	Diesel	SG / 7-speed DCT	66	1461	OM 607
A 180 CDI	Diesel	SG / 7-speed DCT	80	1461	OM 607
A 180 CDI	Diesel	SG / 7-speed DCT	80	1796	OM 651
A 200 CDI	Diesel	SG / 7-speed DCT	100	1796 / 2143	OM 651
A 220 CDI	Diesel	7-speed DCT	125	2143	OM 651

Manufacturer	Model	Туре	EG-BE No. / ABE
Mercedes Benz	B-Class	W246	e1 * 2007 / 46 * 0751 *
Mercedes Benz	B-Class	W246	e1 * 2001 / 116 * 0470 *

Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm ³	Engine code
B 160 CDI	Diesel	SG / 7-speed DCT	66	1461	OM 607
B 180 CDI	Diesel	SG / 7-speed DCT	80	1461	OM 607
B 180 CDI	Diesel	SG / 7-speed DCT	80	1796	OM 651
B 200 CDI	Diesel	SG / 7-speed DCT	100	1796	OM 651
B 220 CDI	Diesel	7-speed DCT	125 / 130	2143	OM 651

Manufacturer Model		Туре	EG-BE No. / ABE		
Mercedes Benz CLA		C117	e1 * 2007 / 46 * 1007 *		
Motorisation	Fuel	Transmission type	Output in kW	Displacement in cm ³	Engine code
CLS 200 CDI	Diesel	SG / 7-speed DCT	100	1796	OM 651
CLS 220 CDI	Diesel	7-speed DCT	125	2143	OM 651

Manufacturer Model		Туре	EG-BE No. / ABE			
Mercedes Benz GL		GLA		X156	e1 * 2001 / 116 * 0470 *	
Motorisation	Fuel		Transmission type	Output in kW	Displacement in cm ³	Engine code
GLA 180 CDI	Diesel		SG / 7-speed DCT	80	1461	OM 607
GLA 200 CDI	Diesel		7-speed DCT	100	2143	OM 651
GLA 220 CDI	Diesel		7-speed DCT	125	2143	OM 651

SG = manual transmission DCT = automatic transmission

From Model Year 2012 Left-hand drive vehicle

Verified equipment variants:	Thermatic / Thermotronic Xenon with Headlight washer system Daytime running lights Blue Efficiency ECO Start-Stop Euro 5 and 6 Front fog lights 4MATIC LED High Performance headlights
Not verified:	Passenger compartment monitoring
Exclusion:	Petrol-engined cars
Total installation time:	about 9.5 hours about 12.5 hours 4MATIC

Table of Contents

Validity Necessary Components Installation Overview Information on Total Installation Time Information on Operating and Installation Instructions Information on Validity Technical Information Explanatory Notes on Document Preliminary Work Heater Installation Location Preparing Electrical System Electrical System Fan Controller Remote Option (Telestart) Remote Option (Thermo Call)	1 3 3 4 5 5 5 6 6 7 8 9 2 12	Preparing Instal Preparing Heate Installing Heate Coolant Circuit Fuel Final Work Fuel Standpipe Fuel Standpipe Operating Instru Operating Instru
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allation Location 14 14 ter 18 er for Engine Code OM 651 20 for Engine Code OM 607 21 27 35 Template Except for 4MATIC 36 **Template for 4MATIC** 37 uctions for Thermatic 38 uctions for Thermotronic 39

Necessary Components

- Basic delivery scope Thermo Top Evo according to price list
- Installation kit for Mercedes Benz A-Class / B-Class / CLA / GLA 2012 Diesel: 1318957C
- Only in case of 4MATIC: 1x p-clamp, MB-Nr. A 000 995 47 02 and 1x fuel standpipe, Webasto 1300823_
- · 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
- We recommend not to mount a Multi Control element because of the installation situation.

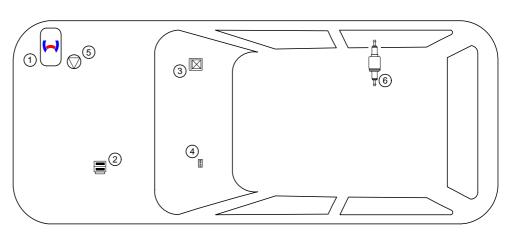
Installation instructions:

- 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 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. CAN Module
- 4. CAN node
- 5. Circulating pump
- 6. Metering pump



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.

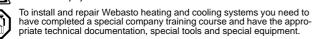
The total installation time may vary for vehicle equipment other than provided.

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.



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 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, 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	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 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.

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 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.

Mercedes Benz A-Class (W176), B-Class(W246), CLA (C117) and GLA (X156)

Information on Validity

This installation documentation applies to Mercedes Benz A-Class (W176), B-Class (W246), CLA (C117) and GLA (X156) Diesel vehicles - for validity, see page 1 - from model year 2012 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 for 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:



Ident. No.: 1318958G_EN

Preliminary Work

Vehicle

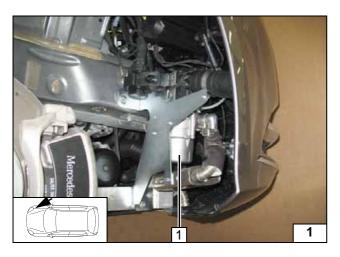
- Open the fuel tank cap.
- Ventilate the fuel tank.
- Close the fuel tank cap again.
- Remove the engine cover.
- Depressurise the cooling system.
- Disconnect the battery.
- Remove the right front wheel.
- Remove the wheel well trim on the right side.
- Remove the coolant expansion tank.
- Detach the heat shield plate in the upper section (only for 1.5 CDI).
- Remove the right and left underride protection.
- Remove the lower engine trim.
- · Remove the instrument panel according to the manufacturer's instructions (CAN node)
- Remove the lower A-pillar trim on the front passenger's side (only in case of Telestart and / or Thermo Call).
- Fold back the floor covering in the front section of the footwell on the front passenger's side.

The following work should only be performed during the corresponding installation sequence:

- Lower the exhaust system.
- Remove the exhaust outlet trim piece of the bumper trim (only in case of 4MATIC).
- Separate the exhaust pipe at the marking (only in case of 4MATIC).
- Remove the end silencer (only in case of 4MATIC).
- Detach the cardan shaft on the rear differential (only in case of 4MATIC).
- Detach intermediate shaft bearing, secure cardan shaft (only in case of 4MATIC).
- Remove the heat shield plate of the fuel tank.
- Remove the fuel tank according to the manufacturer's instructions.
- 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.

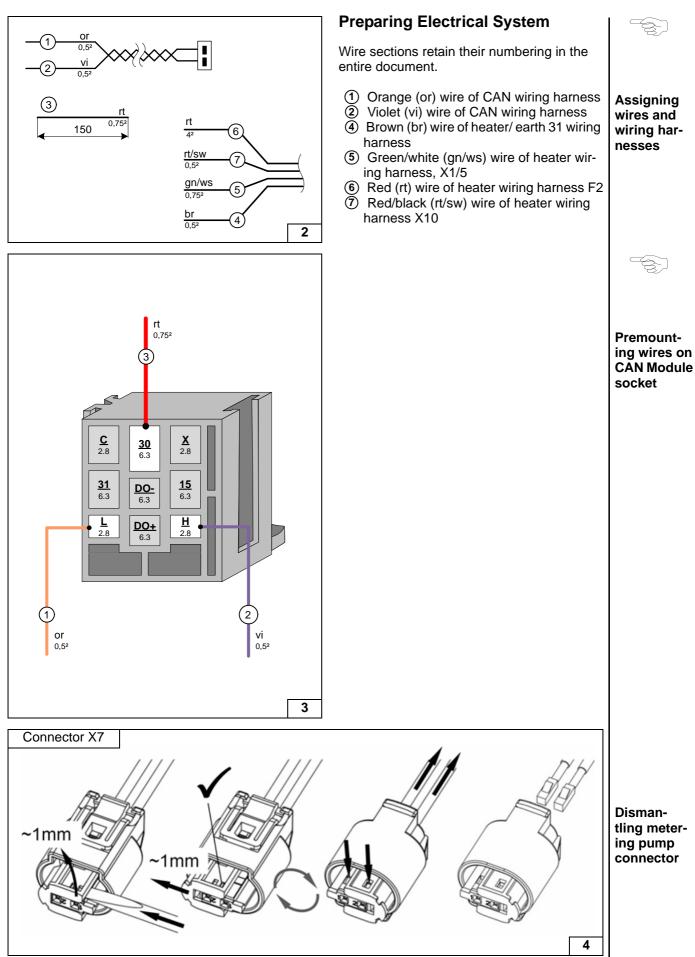


Heater Installation Location

1 Heater

Installation location







Electrical System

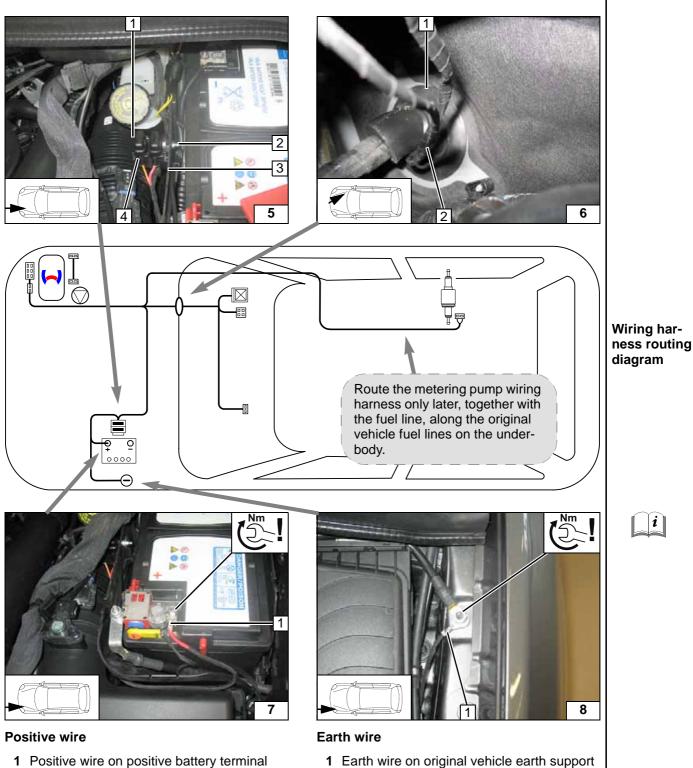
Engine compartment fuse holder

Ensure sufficient distance to intake hose at position $\mathbf{1}$.

- 2 M5x16 bolt, washer, retaining plate of fuse
- holder, 6 mm dia. hole, washer, nut
- 3 Battery box
- 4 Fuses F1-2

Wiring harness pass through

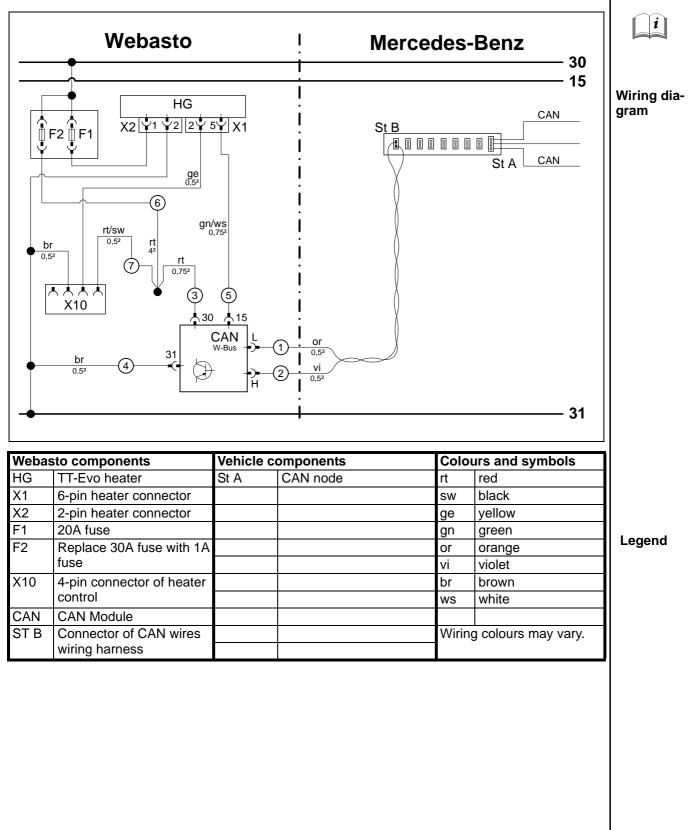
- 1 Protective rubber plug
- 2 Heater wiring harness / heater control



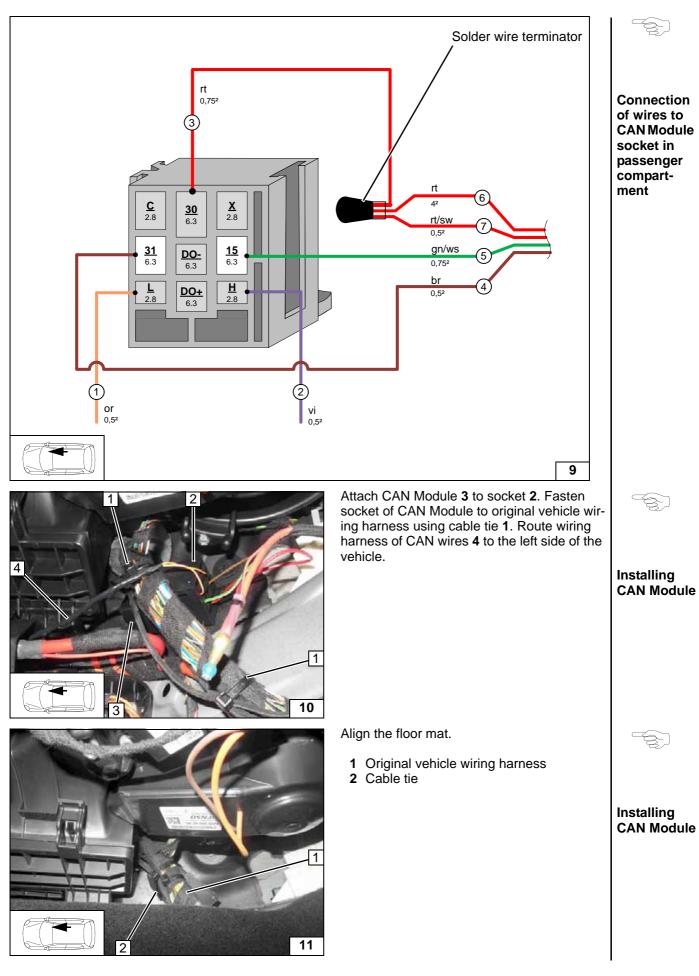
1 Earth wire on original vehicle earth support point



Fan Controller









Completing instrument panel

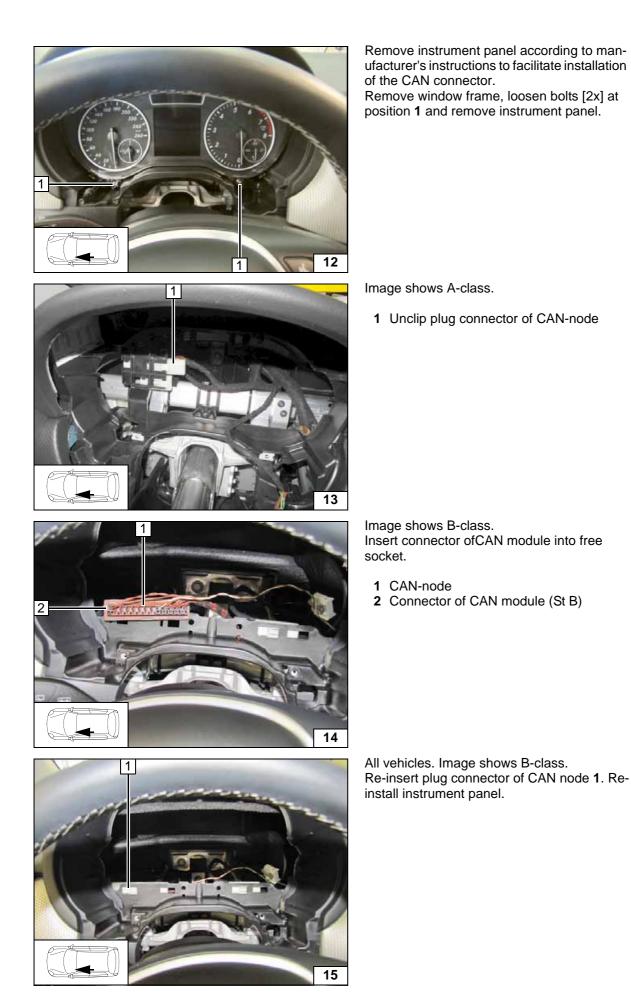
Unclipping plug connector of CAN node

Connec-

bus

tion of CAN

Completing instrument panel



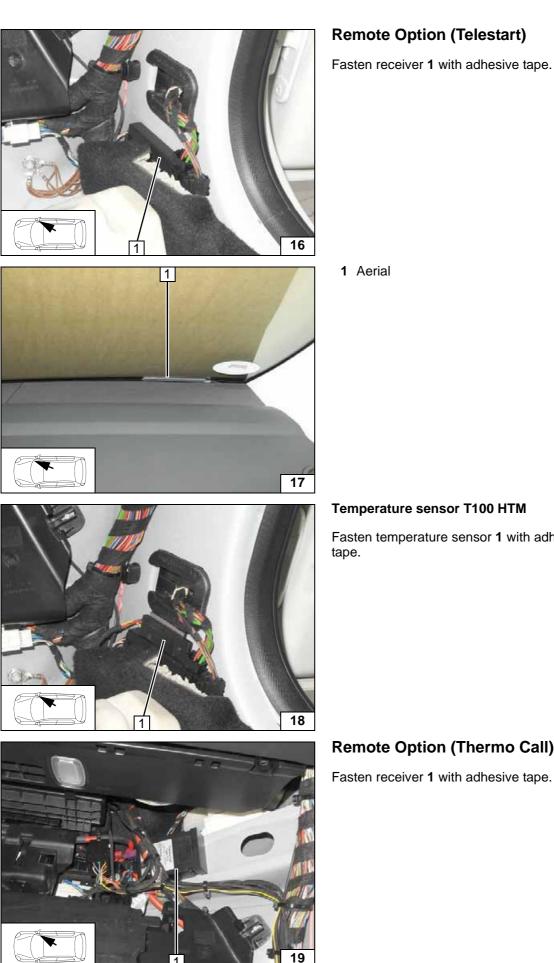
Ident. No.: 1318958G_EN



i

Installing receiver

Installing aerial



Temperature sensor T100 HTM

Fasten temperature sensor 1 with adhesive

Installing temperature sensor

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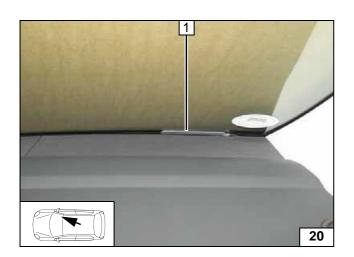
Remote Option (Thermo Call)

Fasten receiver 1 with adhesive tape.

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Installing receiver

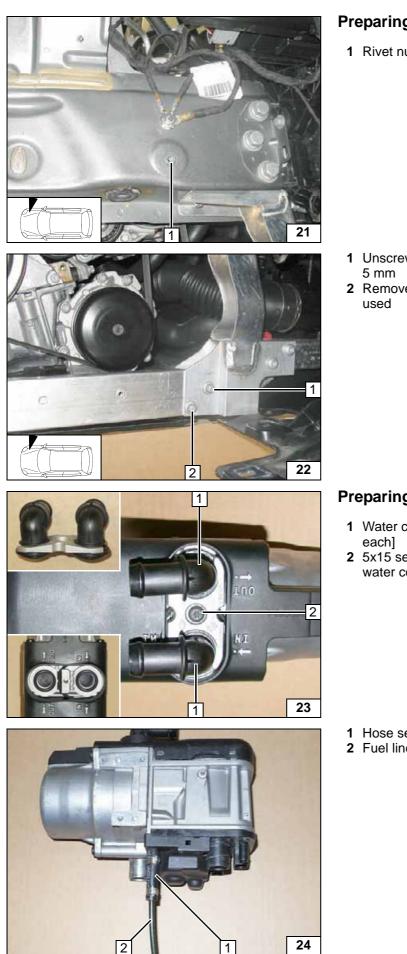




1 Aerial

Installing aerial





Preparing Installation Location

1 Rivet nut, existing hole

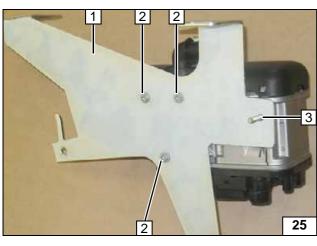
1 Rivet nut, existing hole	Installing rivet nut
 Unscrew original vehicle bolt by approx. 5 mm Remove original vehicle bolt, will be re- used 	Preparing installation location
 Preparing Heater 1 Water connection piece, sealing ring [2x each] 2 5x15 self-tapping bolt, retaining plate of water connection piece 	Installing water con- nection piece
 Hose section, 10 mm dia. clamp [2x] Fuel line 	Premount- ing fuel line

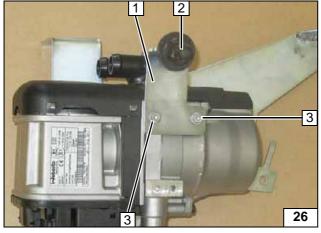


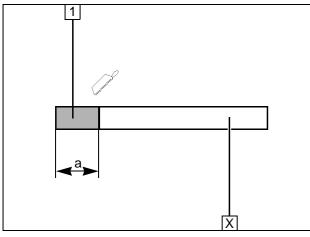
Installing section 1 of

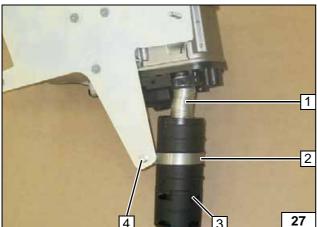
Installing section 2 of bracket

bracket









Insert M6x25 bolt **3** into hole prior to installation.

- 1 Section 1 of bracket
- **2** 5x13 self-tapping bolt [3x]

- 2 Attach rubber bearing3 5x13 self-tapping bolt [2x]

1 Section 2 of bracket

- Discard section X.
 - **1** Combustion air pipe a = 40mm
- combustion air pipe to length

Cutting

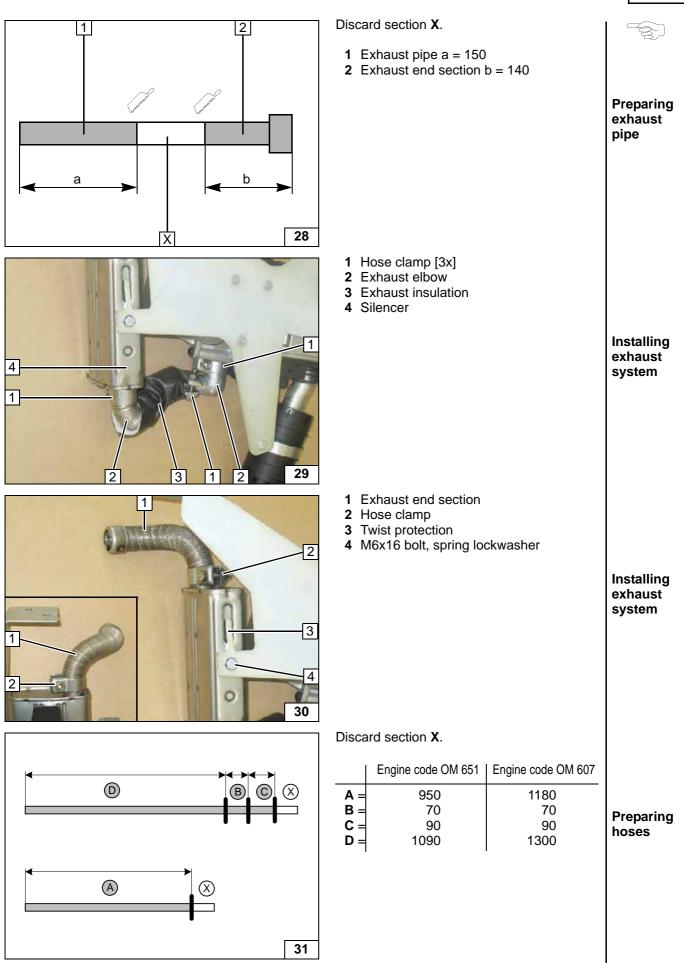
- 1 Combustion air pipe
- 2 51 mm dia. clamp
- 3 Combustion air silencer
- 4 M5x16 bolt, flanged nut

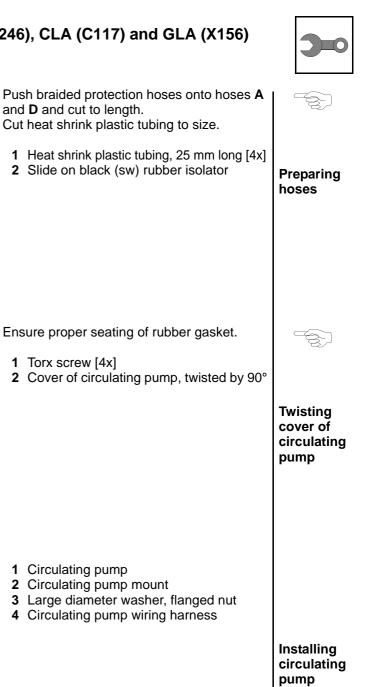
Mounting combustion air si-

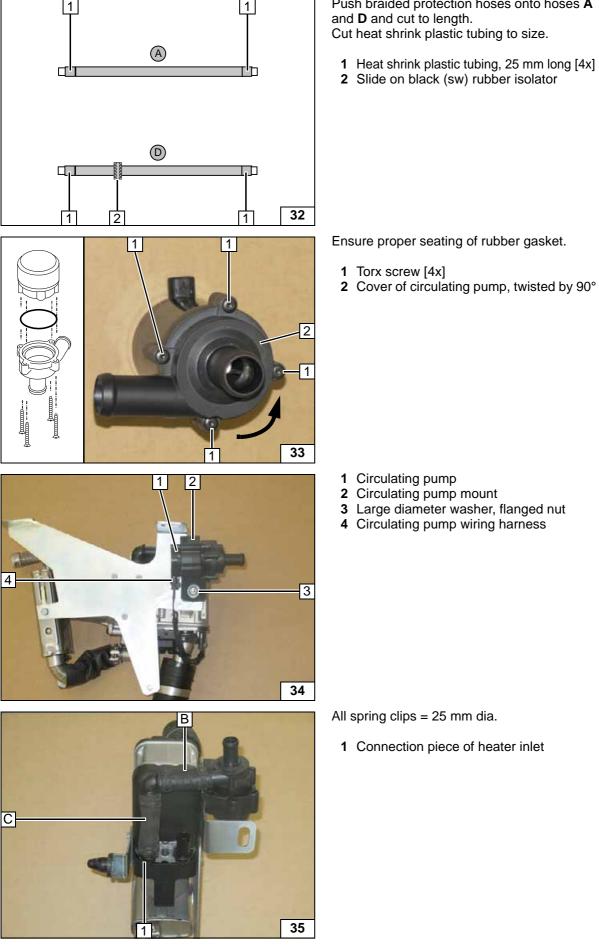
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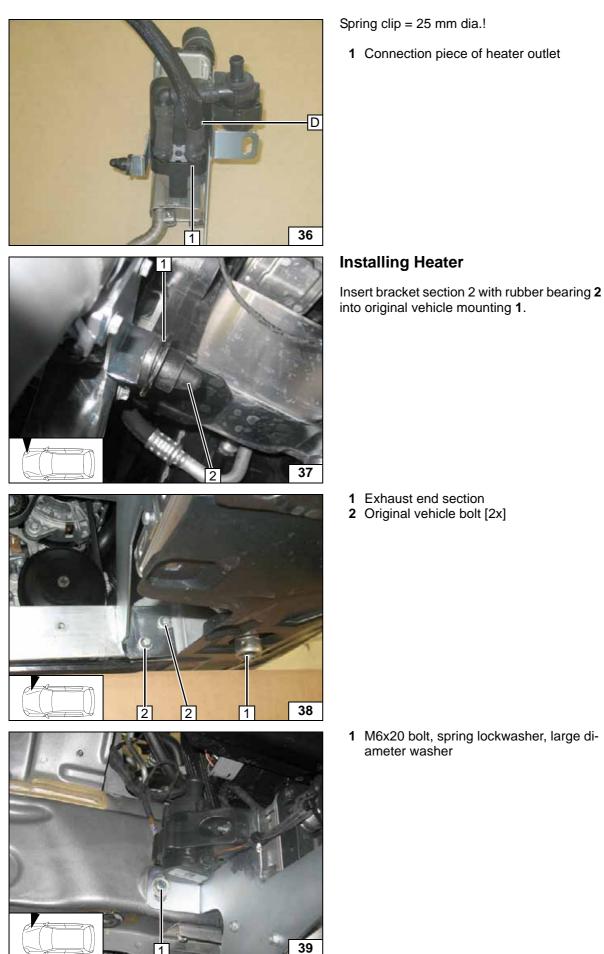


Installing hoses B

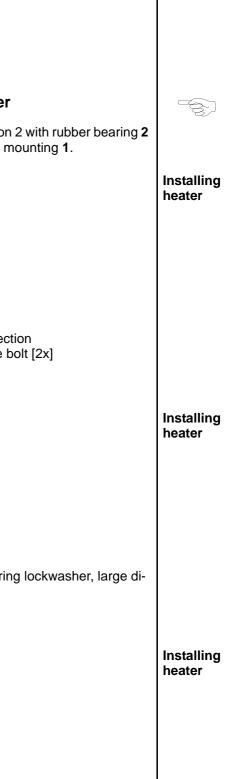
and C



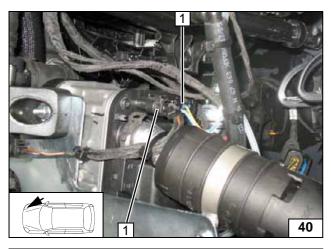
Premounting hose D

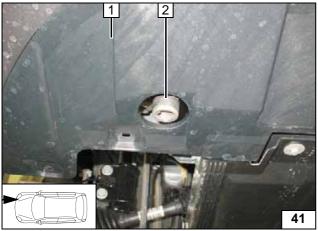


1 Connection piece of heater outlet









1 Connector of heater wiring harness [2x]

Mounting wiring harness on heater

Align exhaust end section ${\bf 2}$ with the centre of the hole and flush with underride protection ${\bf 1}$.



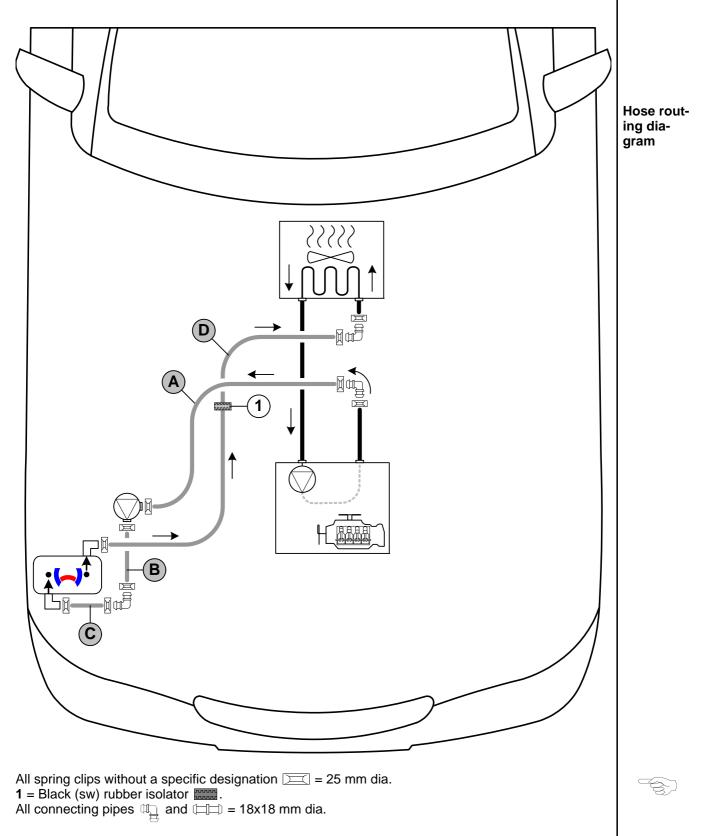
Aligning exhaust end section



Coolant Circuit for Engine Code OM 651

WARNING!

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

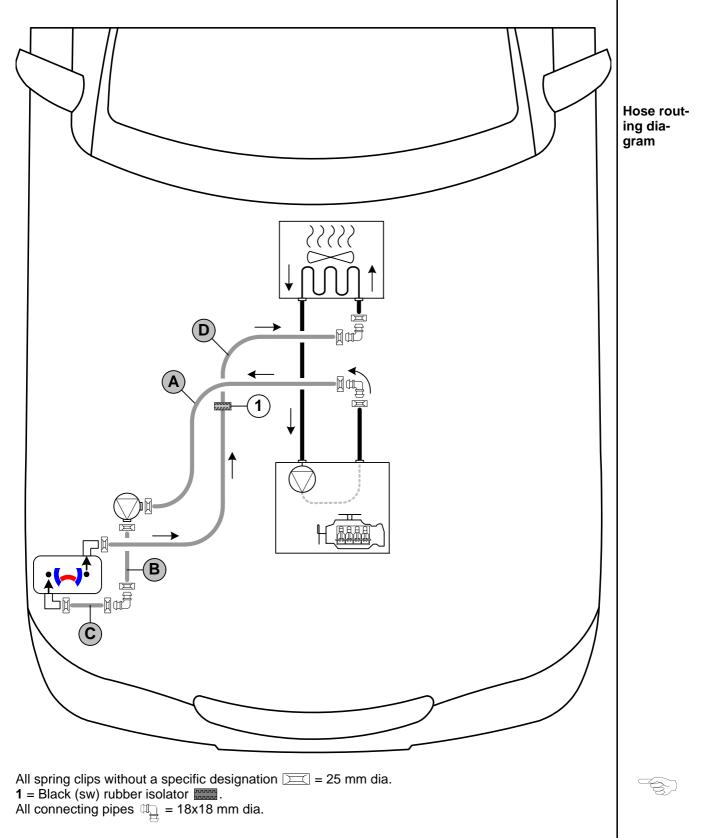




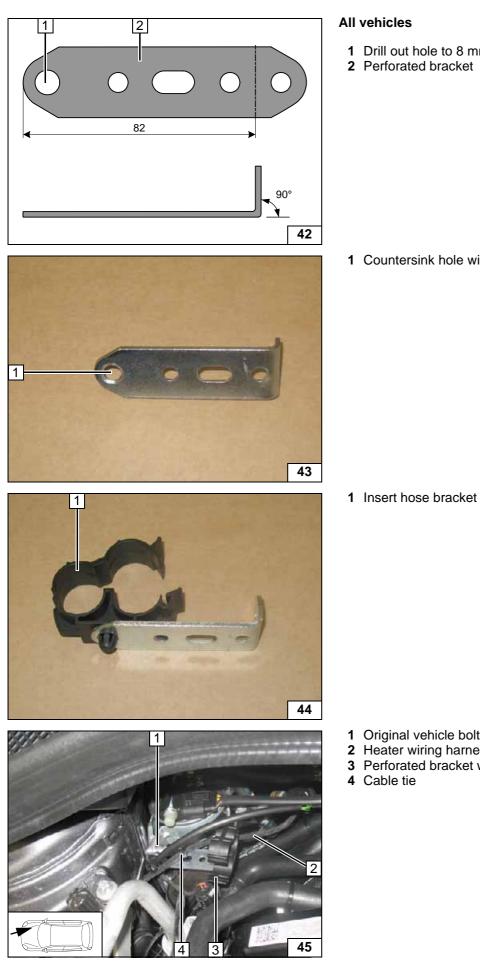
Coolant Circuit for Engine Code OM 607

WARNING!

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







- 1 Drill out hole to 8 mm dia.
- 2 Perforated bracket

Preparing perforated . bracket

1 Countersink hole with 10 mm dia. drill

Preparing perforated . bracket

Preparing perforated bracket

- 1 Original vehicle bolt
- 2 Heater wiring harness
- 3 Perforated bracket with hose bracket

Preparing routing



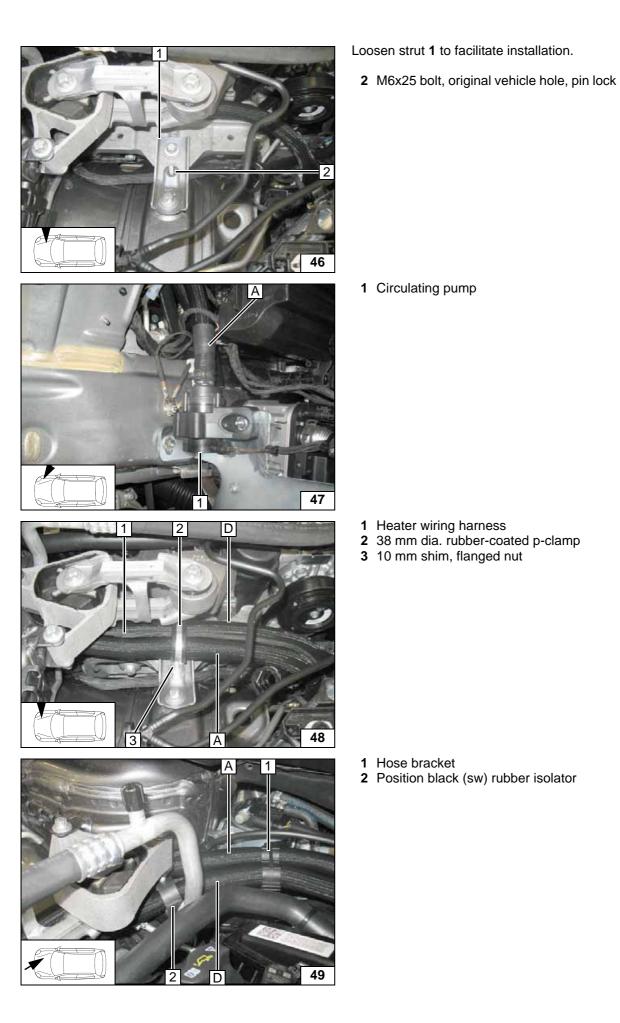
Preparing routing

Connection of hose

Routing in engine compartment

Routing in engine compartment

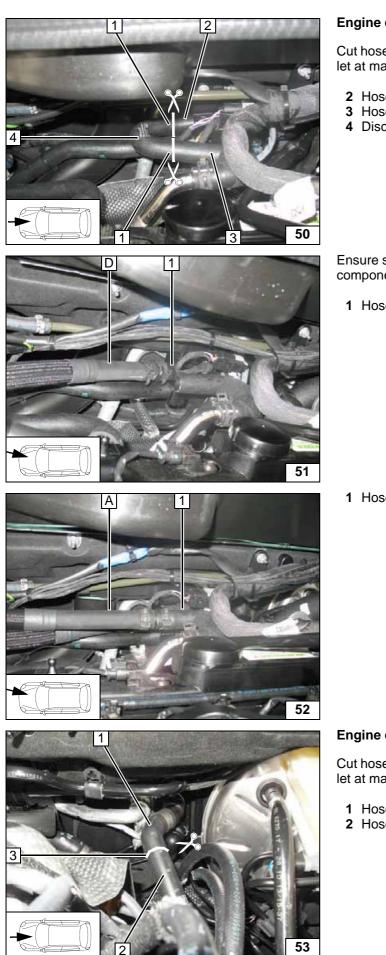
Α





Cutting

point



Engine code OM 651

Cut hose of engine outlet / heat exchanger inlet at marking **1** [2x].

- 2 Hose section of heat exchanger inlet
- 3 Hose section of engine outlet
- 4 Discard hose section

Ensure sufficient distance from neighbouring components, correct if necessary.

1 Hose section of heat exchanger inlet

Connecting heat exchanger inlet

- 1 Hose section of engine outlet
- Connect-

Cutting

point

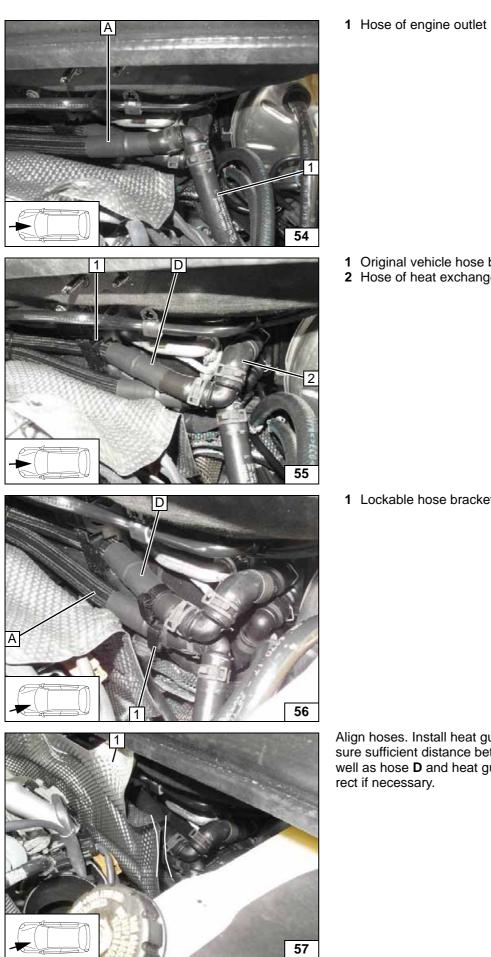
Connecting engine outlet

Engine code OM 607

Cut hose of engine outlet / heat exchanger inlet at marking 3.

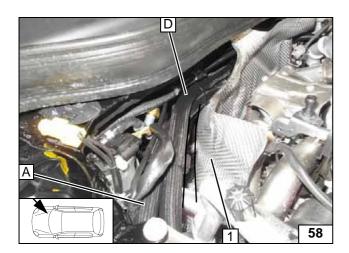
- 1 Hose section of heat exchanger inlet
- 2 Hose section of engine outlet





	Connect- ing engine outlet
Original vehicle hose bracket Hose of heat exchanger inlet	Connect-
Lockable hose bracket	ing heat ex- changer inlet
Lockable hose bracket	Incorting
	Inserting hose bracket
gn hoses. Install heat guard plate 1 . En- e sufficient distance between hose A as Il as hose D and heat guard plate 1 , cor- t if necessary.	Checking
	distance





Align hoses. Ensure sufficient distance between hose **A** as well as hose **D** and heat guard plate **1**, correct if necessary.



Checking distance

Mercedes Benz A-Class (W176), B-Class(W246), CLA (C117) and GLA (X156)

Fuel

CAUTION!

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

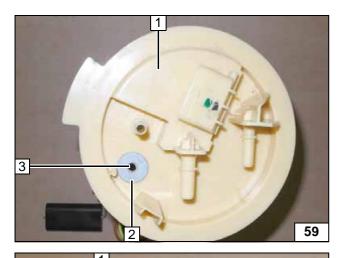
Catch any fuel running off in an appropriate container.

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!

1

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



Except 4MATIC

Remove the fuel tank according to the manufacturer's instructions. Remove fuel tank sending unit 1 according to the manufacturer's instructions. Place large diameter washer with outer dia. $d_a = 21.6$ mm 2 as shown.

3 Copy hole pattern, 6 mm dia. hole

Bend fuel standpipe **1** according to template and cut to length.



Installing fuel standpipe

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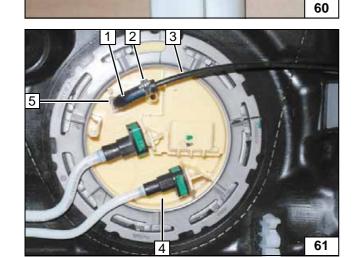
Connect-

ing fuel line

i

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

- 1 90° moulded hose, 3.5x4.5 mm dia.
- 2 10 mm dia. clamp
- 3 Fuel line
- 5 Fuel standpipe, 9 mm dia. clamp













Fuel ex-

tions.

300

330 200

300

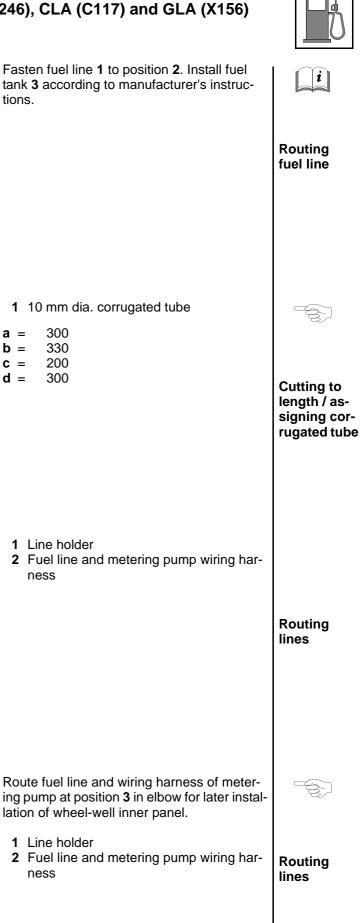
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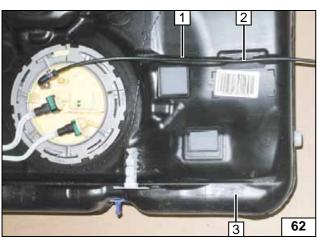
ness

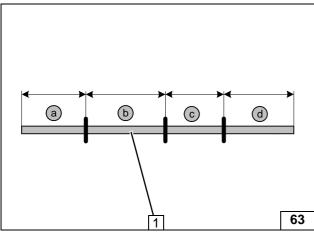
a = **b** =

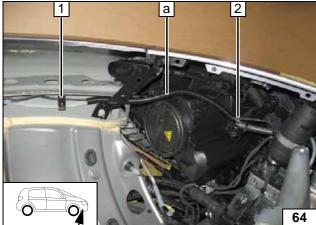
c =

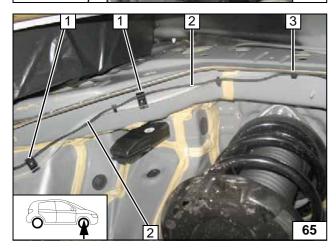
d =





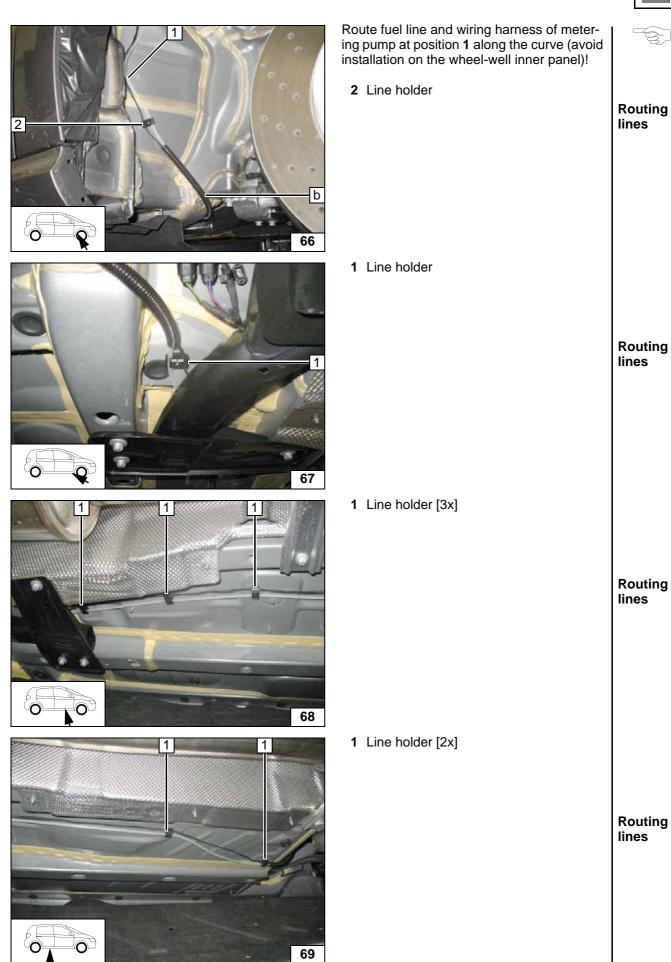




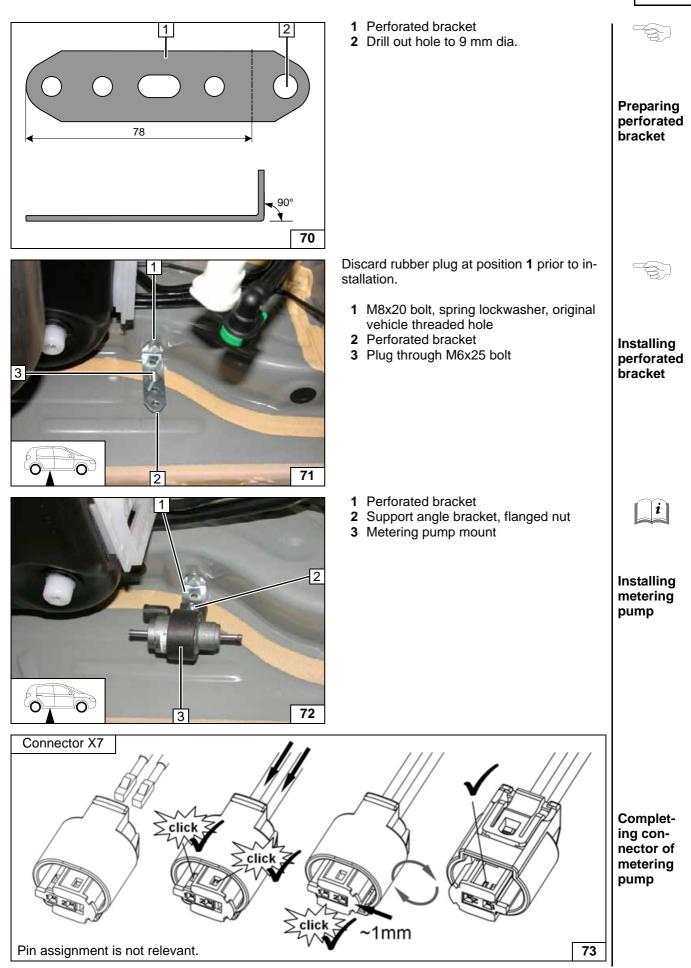


Ident. No.: 1318958G_EN

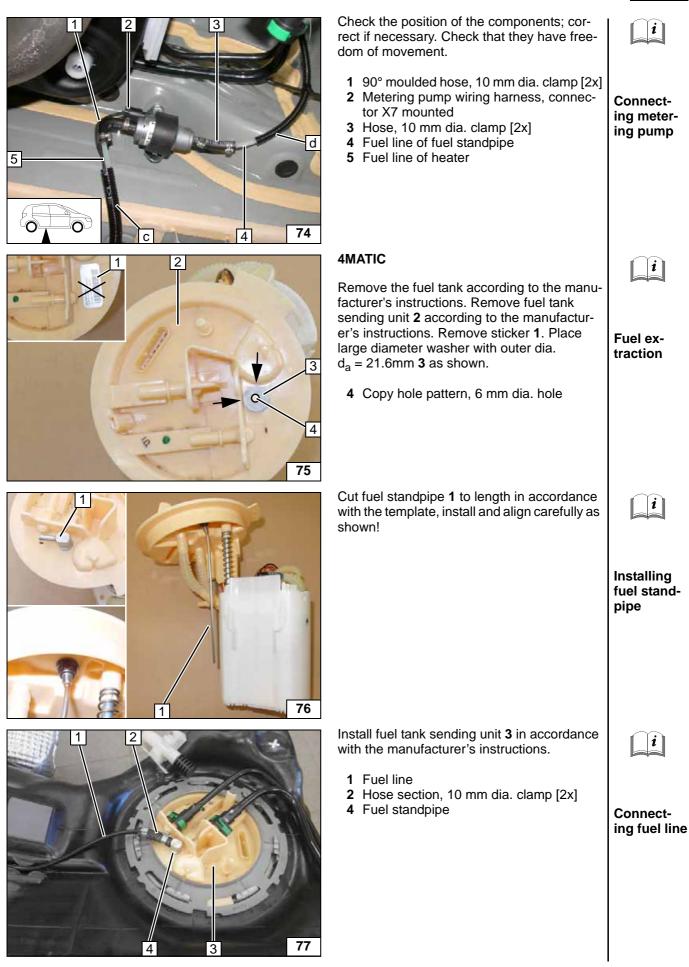




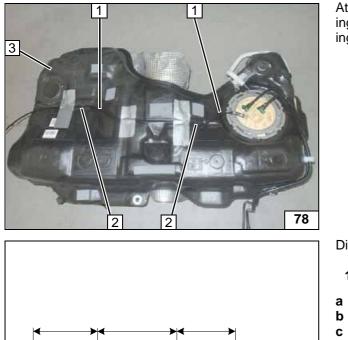


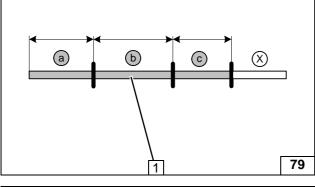


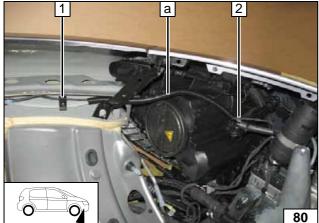


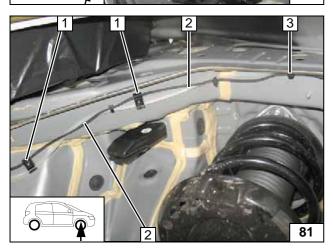












Attach fuel line 1 at position 2 and secure using adhesive tape. Install fuel tank 3 according to manufacturer's instructions.



Cutting to

length / as-

signing corrugated tube

Discard section X.

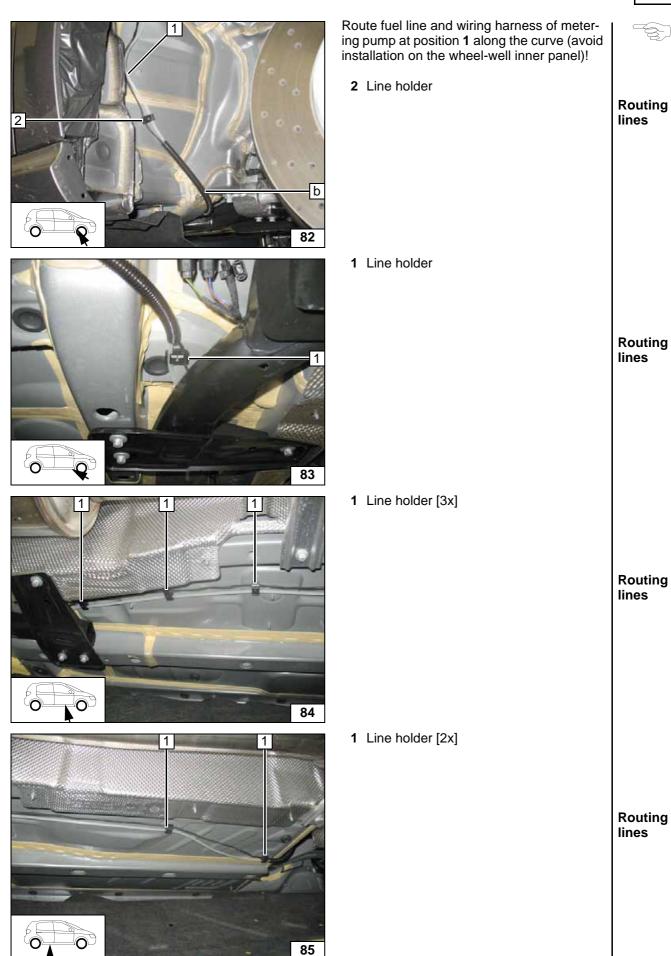
- 1 10 mm dia. corrugated tube
- 300 a =
- 330 $\mathbf{b} =$ **C** =
- 200

- 1 Line holder
- 2 Fuel line and metering pump wiring harness
- Routing lines

Route fuel line and wiring harness of metering pump at position 3 in elbow for later installation of wheel-well inner panel.

- 1 Line holder
- 2 Fuel line and metering pump wiring har-Routing ness lines





86

1 Metering pump

2 Metering pump mount

4 Hose, 10 mm dia. clamp

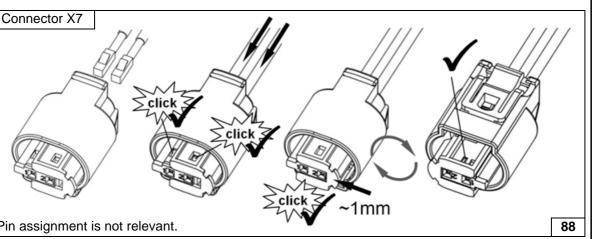
3 90° moulded hose, 10 mm dia. clamp



1 Copy hole pattern as shown, 9.1 mm dia.; rivet nut

> Installing rivet nut

Premounting metering pump



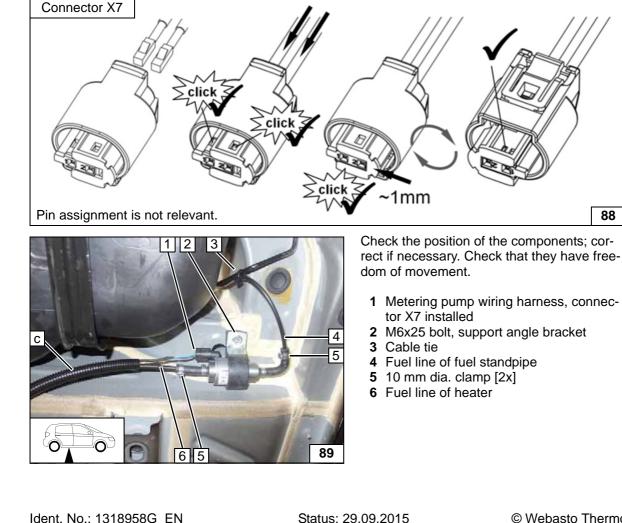
87

3

Completing connector of metering pump

i]

Installing metering pump



0

Ô

1

4

2



Final Work

WARNING!

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

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.
- Teach Telestart transmitter
- Place the 'Switch off parking heater before refuelling' caution label near the filler neck.
- For initial startup and function check, please see installation instructions.

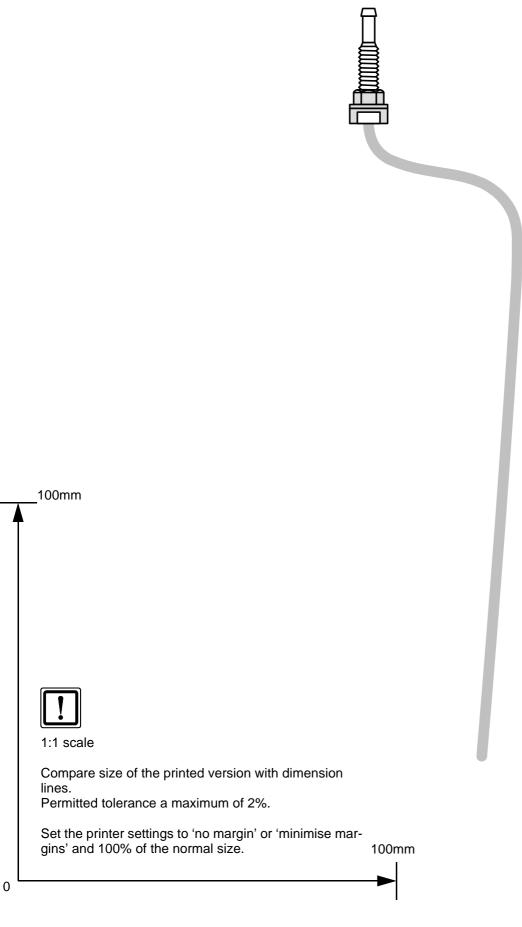




Webasto Thermo & Comfort SE Postfach 1410 82199 Gilching Germany Internet: www.webasto.com Technical Extranet: http://dealers.webasto.com

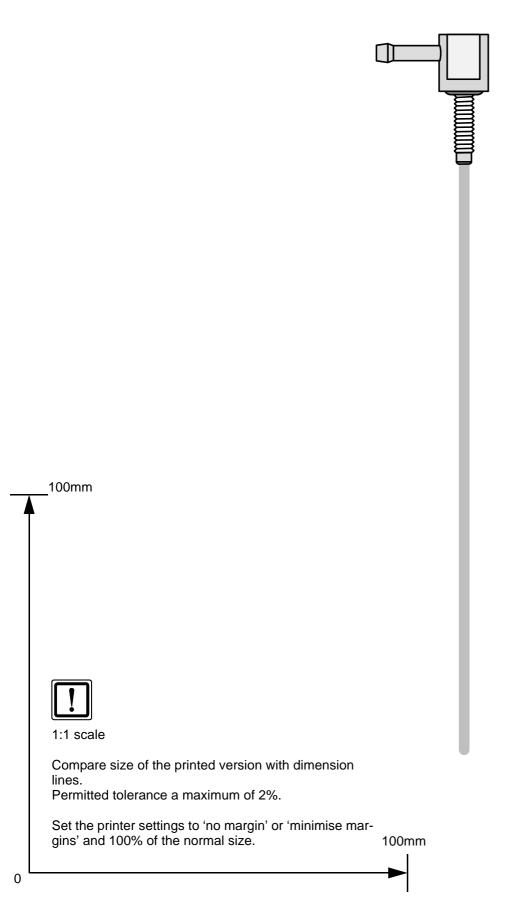


Fuel Standpipe Template Except for 4MATIC





Fuel Standpipe Template for 4MATIC



Mercedes Benz A-Class (W176), B-Class(W246), CLA (C117) and GLA (X156)



i

A/C control

panel

Operating Instructions for Thermatic

Please remove page and add to the vehicle operating instructions.

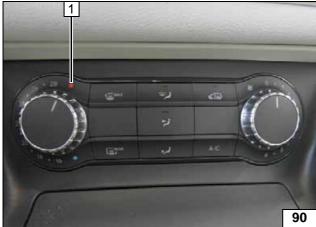
Note:

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.

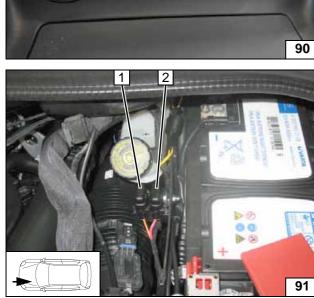
Passenger compartment monitoring, if installed, must be deactivated in addition to the vehicle settings for the heating operation.

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

The following settings are to be made prior to turning off the vehicle in order to improve heating.



1 Set temperature to 'max.'



- 1 20A heater fuse F1
- 2 1A heater control fuse F2

Engine compartment fuses

Mercedes Benz A-Class (W176), B-Class(W246), CLA (C117) and GLA (X156)



i

A/C control panel

Operating Instructions for Thermotronic

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.

The following settings are to be made prior to turning off the vehicle to improve the heat input:



1 20A heater fuse F1

2 1A heater control fuse F2

1 Set temperature on both sides to 'HI'

Engine compartment fuses

