Water Heater Unit



Thermo Top E Additional Heater 00 0003 Thermo Top C Additional Heater 00 0002 Thermo Top P Additional Heater 00 0104

Installation Instructions

Nissan Qashqai

2.0LDiesel from Model Year 2007 Left-hand drive vehicle



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, specialized tools and equipment are required to install and repair Webasto heating and cooling systems.

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 | Туре | EG-BE No./ABE |
|--------------|--------------|--------------|---------------------------------|
| Nissan | Qashqai | J10 | e11 * 2001/116 * 0295 * |
| | | | |
| Engine type | Engine model | Output in kW | Displacement in cm ³ |
| M9R | Diesel | 110 | 1994 |

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

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

Heater Unit/Installation Kit

| Quantity | Description | Order No.: |
|----------|--|-----------------------|
| 1 | Nissan-specific delivery scope | See Nissan price list |
| 1 | Installation kit for Nissan Qashqai 2.0 liter Diesel | 1312667A |

Also required:

| Quantity | Description | Order No.: |
|----------|---|-----------------------|
| 1 | Heater control according to Nissan price list | See Nissan price list |

Heater unit recommended for the respective vehicle class:

| Vehicle | Heater unit |
|-------------------------------|--------------|
| 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 unit is based on the passenger compartment size of the vehicle and the level of comfort required by the customer!

Foreword

These installation instructions apply to Nissan Qashqai 2.0 liter Diesel vehicles - for validity, see page 2 - from model year 2007 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 these installation instructions.

However, the stipulations in the "installation instructions" 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

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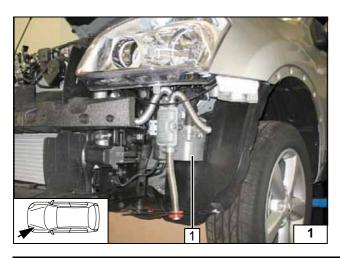


Preliminary Work

WARNING!

- Open the fuel tank cap, ventilate the tank.
- Close the tank cap again.
- Disconnect the battery "earth" or "ground" connection.
- 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.
- Completely remove the battery
- Remove the air filter together with the intake hose.
- Remove the engine design cover
- Detach the wheel well trim on the right and left.
- Remove the bumper.
- Remove the rear seat cushion.
- Open the tank-fitting service lid
- Remove the lower cover of the instrument panel in the footwell on the left
- Remove the side cover of the instrument panel on the left
- Remove the lower cover of the instrument panel on the left
- Detach the fuse carrier on the left in the passenger compartment
- Remove the lower A-pillar trim in the footwell on the left (only with Telestart)
- Remove the A/C control panel (only with automatic air-conditioning)

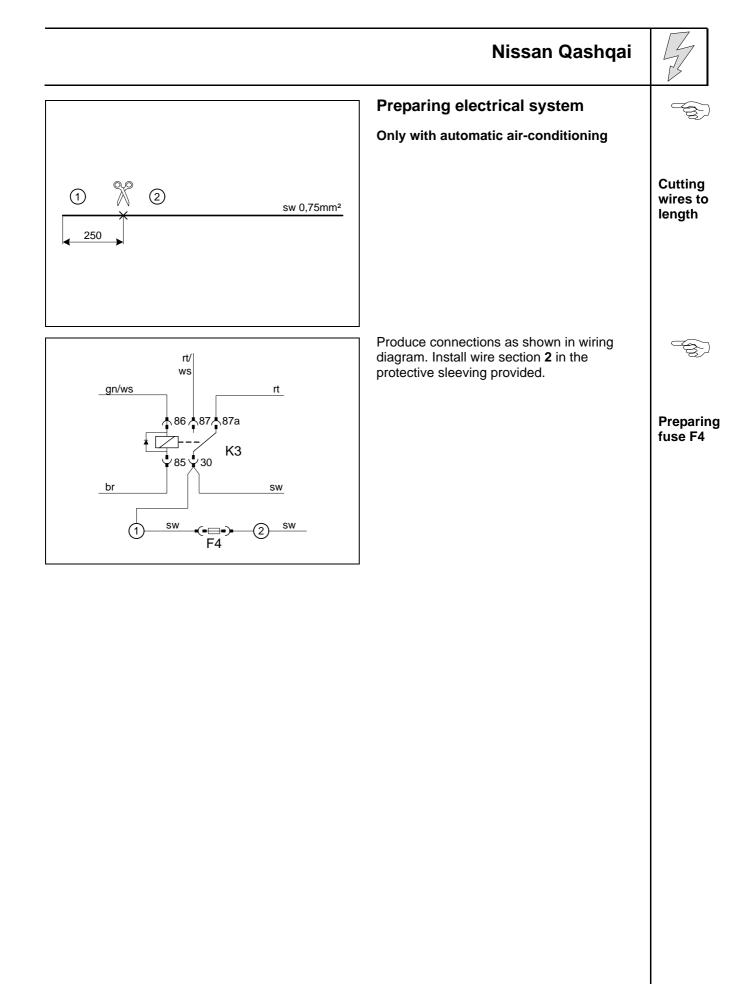
Remove page 24 "Operating Instructions for End Customer" and add to the vehicle operating instructions.



Heater unit installation location

1 Heater unit

Installation location



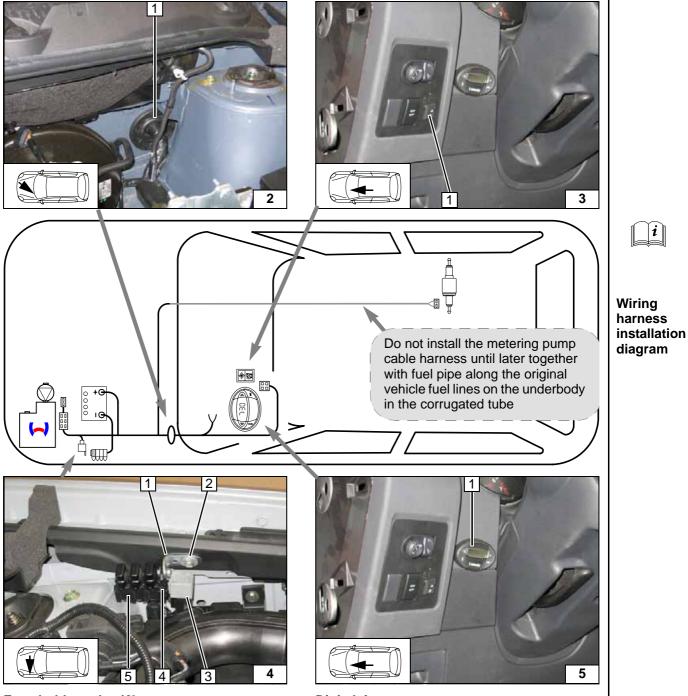
Electrical Connections

Wiring harness pass through

1 Protective rubber plug

Summer/winter switch option

1 Summer/winter switch, drilled hole 12 mm dia.



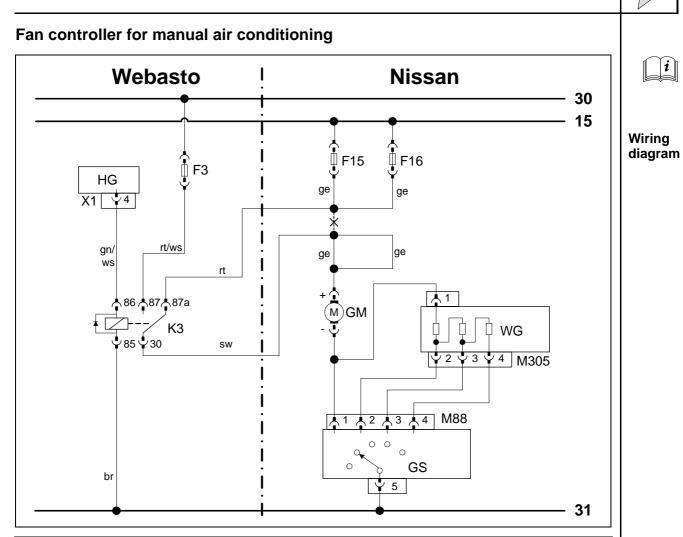
Fuse holder, relay K3

7 mm dia. hole in plastic cover at position 2.

- 1 Angle bracket
- 2 M6x20 bolt, large diameter washer, flanged nut
- 3 Fan relay K3
- 4 M5x12 bolt, washer, retaining plate for fuse holder, washer, flanged nut on angle bracket
- 5 Fuse holder

Digital timer

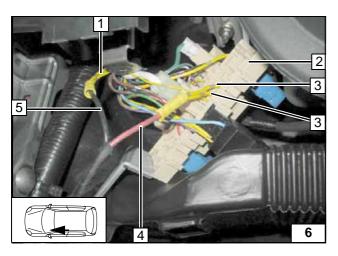
1 Digital timer



| Webasto components | | Vehicle components | | Color | Colors and symbols | |
|--------------------|-----------------------------|--------------------|--------------------|--------|-------------------------|--|
| HG | Heater unit TT-C/E | GM | Fan motor | rt | red | |
| X1 | 6-pin heater unit connector | GS | Fan switch | WS | white | |
| F3 | 25 A fuse | M88 | 8-pin connector GS | SW | black | |
| K3 | Fan relay | WG | Resistor group | gn | green | |
| | | M305 | 4-pin connector WG | ge | yellow | |
| | | F15 | 15 A fuse | | | |
| | | F16 | 15 A fuse | Х | Cutting point | |
| | | | | Wiring | Wiring colors may vary. | |



Legend



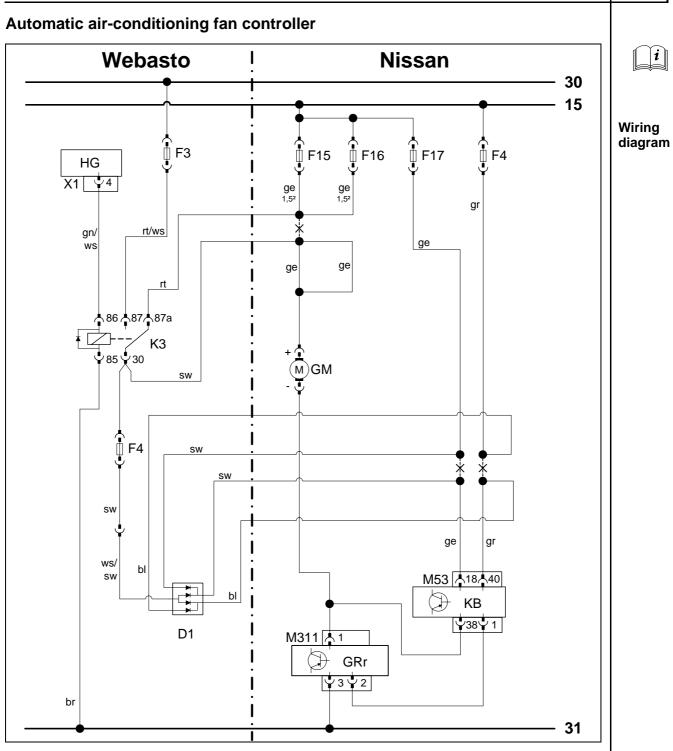
Connection on central electrical box **2** on driver's side.

Produce connections as shown in wiring diagram.

- 1 Yellow (ge) wire [2x] of fan motor
- **3** Yellow (ge) wire [2x] for fuse F15 and F16
- 4 Red (rt) wire from K3/87a
- 5 Black (sw) wire from K3/30
- Connecting fan-motor

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| Webasto components | | Vehicle components | | Color | s and symbols |
|--------------------|-----------------------------|--------------------|--------------------------------|-------------------------|---------------|
| HG | Heater unit TT-C/E | GM | Fan motor | rt | red |
| X1 | 6-pin heater unit connector | KB | Air-conditioning control panel | ws | white |
| F3 | Fuse | M53 | 40-pin connector KB | SW | black |
| K3 | Fan relay | GRr | Fan controller | br | brown |
| D1 | Diode group | M311 | 4-pin connector, GRr | gn | green |
| F4 | 1 A fuse | F4 | Fuse | bl | blue |
| | | F15 | Fuse | ge | yellow |
| | | F16 | Fuse | gr | gray |
| | | F17 | Fuse | | |
| | | | | Х | Cutting point |
| | | | | Wiring colors may vary. | |

Legend

Nissan Qashqai Connection on central electrical box 2 on 1 driver's side. Produce connections as shown in wiring diagram. 1 Yellow (ge) wire [2x] of fan motor Con-3 Yellow (ge) wire [2x] for fuse F15 and F16 necting fan 4 Red (rt) wire from K3/87a motor 5 Black (sw) wire from K3/30 Connection to 40-pin connector M53 2 from A/C control panel. Produce connections as shown in wiring diagram. Watch direction of flow of diode group D1 3. Con-1 Black (sw) wire of F4 necting 4 White/black (ws/sw) of D1 A/C control panel N 0 8 Produce connections as shown in wiring 1 2 diagram. **1** Gray (gr) wire of F4 2 Yellow (ge) wire of F17 3 Gray (gr) wire of connector M53/40 KB Con-4 Yellow (ge) wire of connector M53/18 KB necting A/C control panel 9 4 1 Connector M53 on contact side 1 View of connector M53 1 21 10

| Remote option (Telestart) | i |
|---|------------------------|
| Fasten receiver 1 with double-sided adhesive tape. | |
| | Installing receiver |
| | |
| | |
| 1 Antenna | |
| | |
| | Installing antenna |
| | |

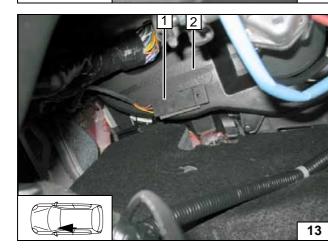


- 1 Fasten temperature sensor with double-sided adhesive tape
- 2 Air duct on driver's side

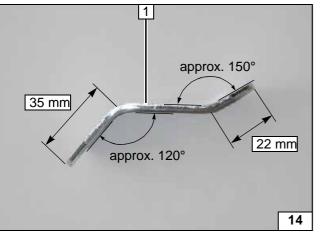
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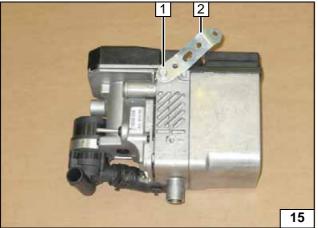
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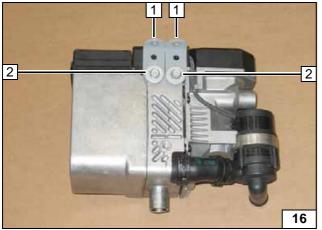
Installing temperature sensor



1

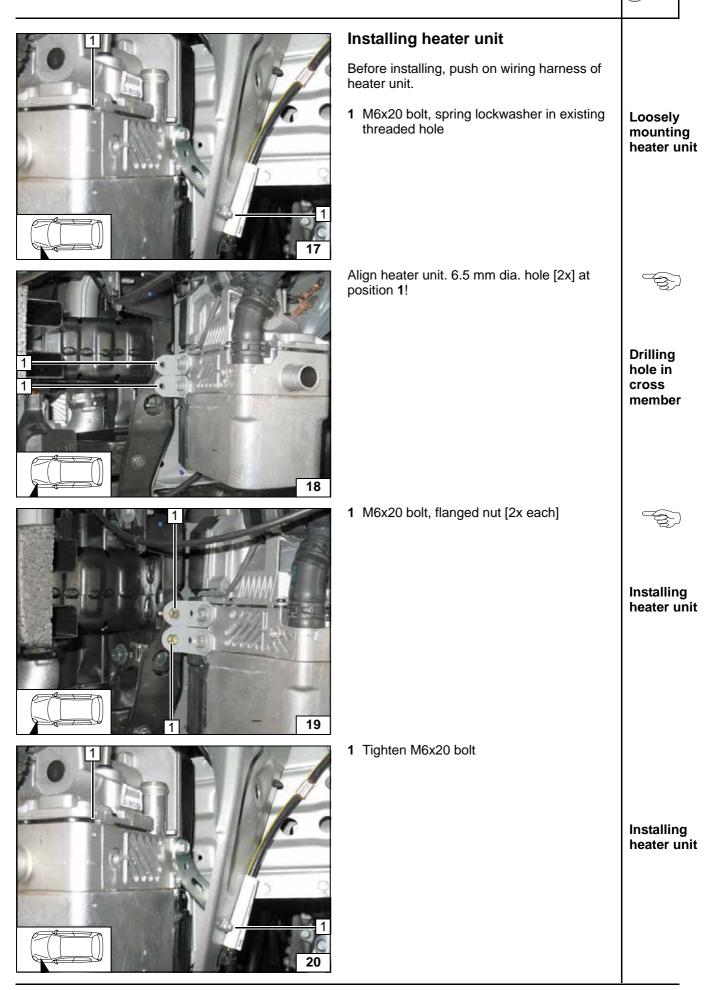




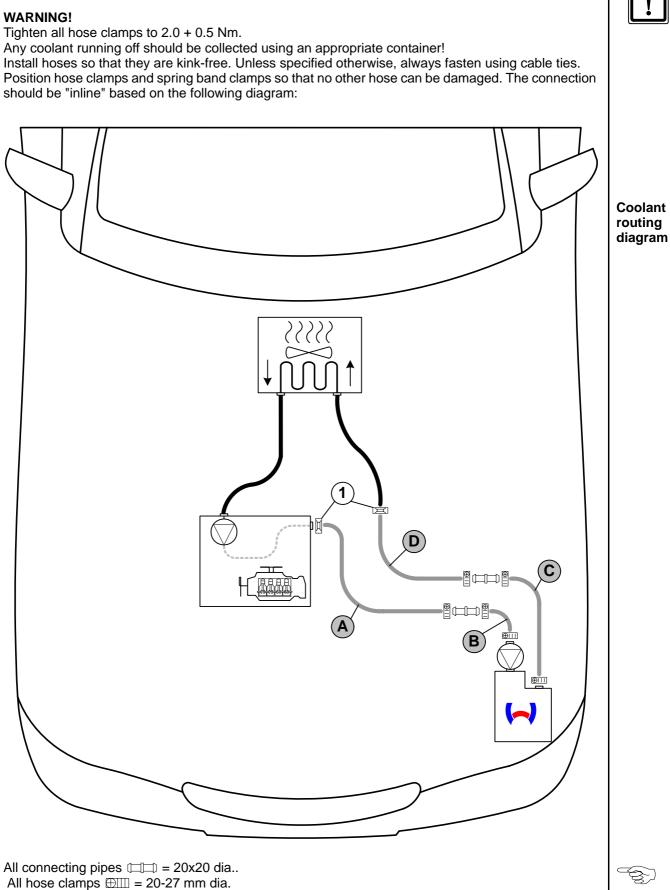


Preparing heater unit Angle down perforated bracket 1. Bending perforated . bracket Ejot screw bolt, tightening torque 10 Nm! 1 Ejot screw 2 Perforated bracket, mount loosely Premounting perforated . bracket Ejot screw bolt, tightening torque 10 Nm! 1 Ejot screw, large diameter washer [2x each] **2** Angle bracket [2x] Premounting angle bracket

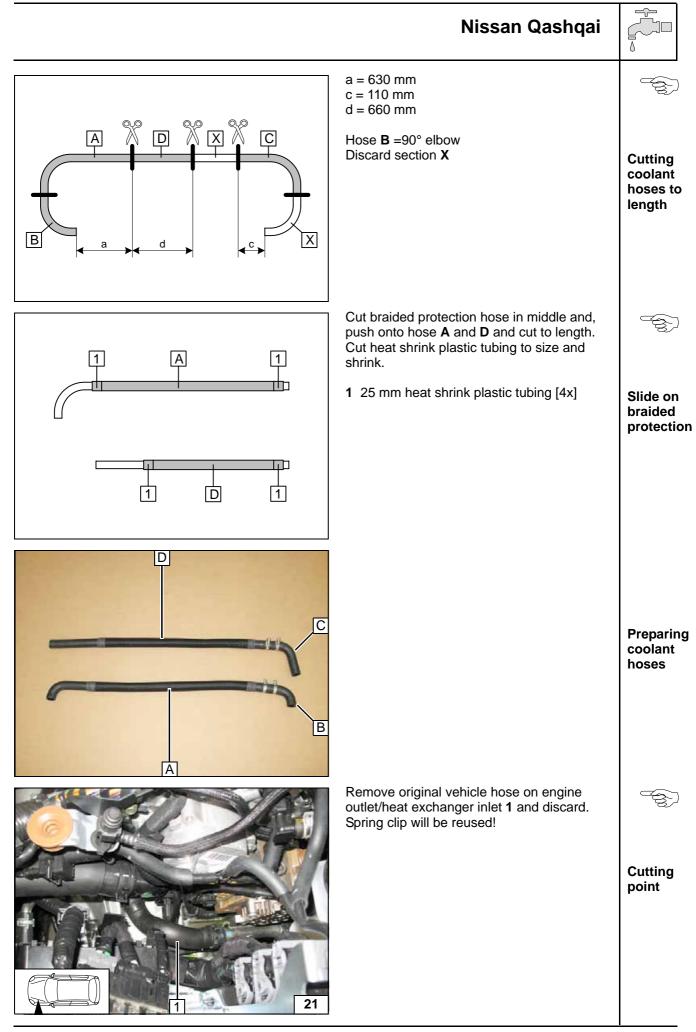
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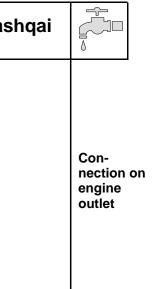
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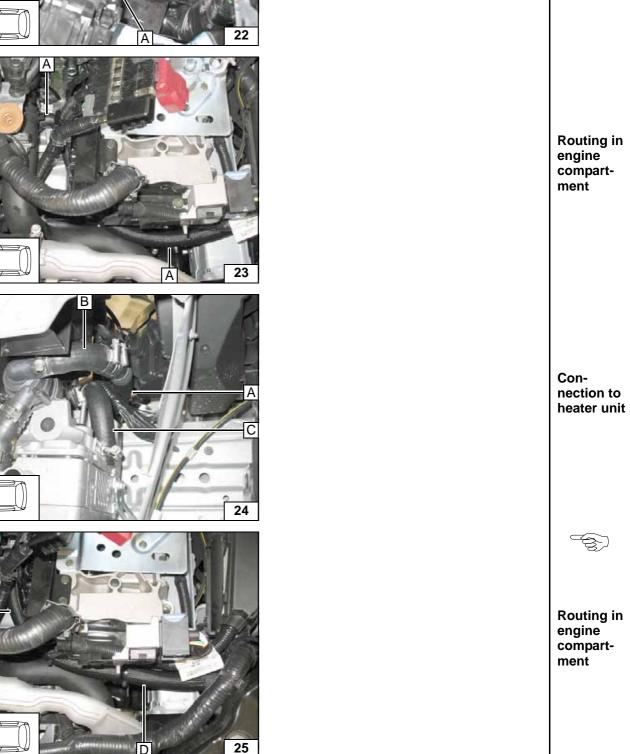


Coolant connection



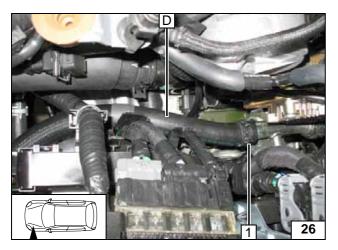
1 Original vehicle spring clip





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Before connecting, fill the coolant hoses with coolant.

1 Original vehicle spring clip

Connection to heat exchanger inlet

Fuel Connection

CAUTION!

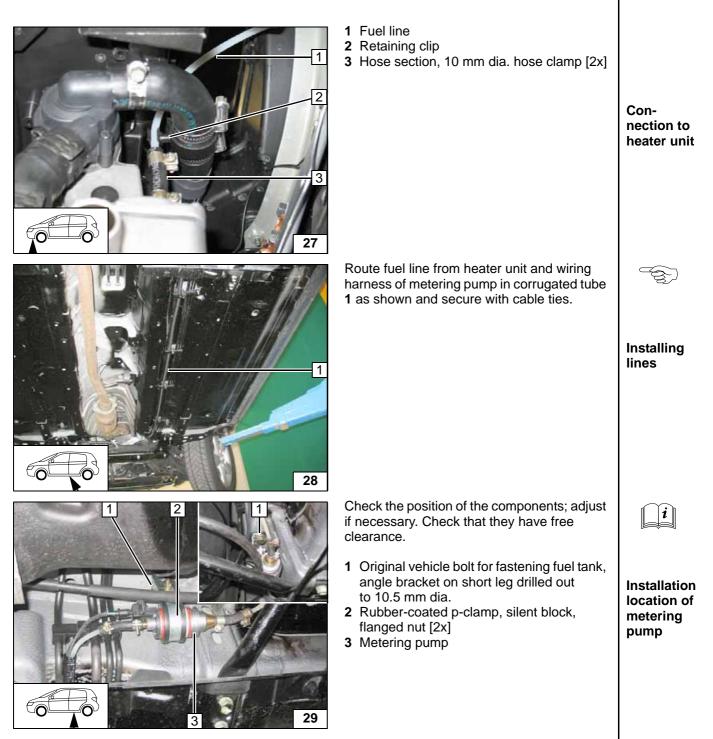
Open the vehicle's fuel tank cap, ventilate the tank and then re-close the tank lock.

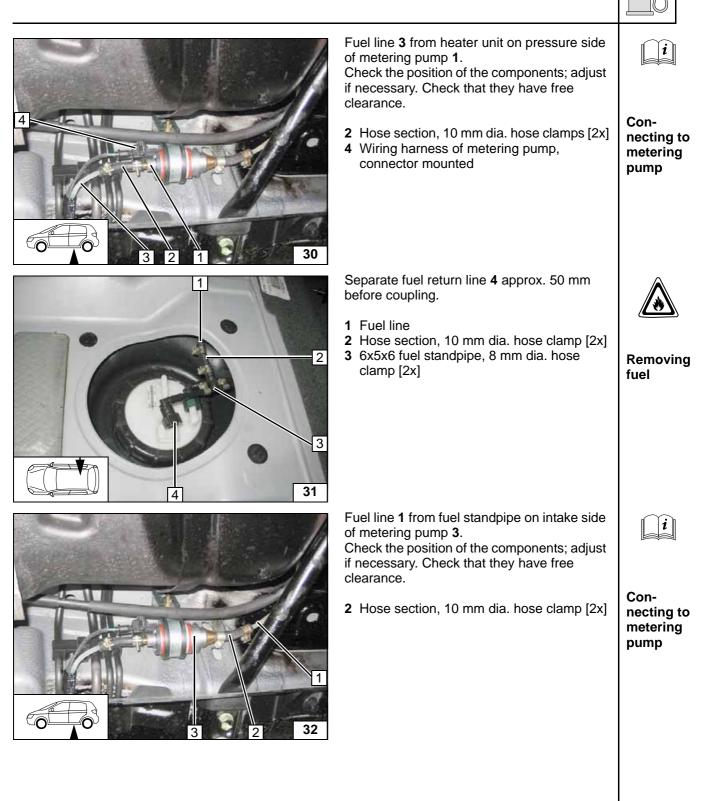
Catch any fuel running off with an appropriate container.

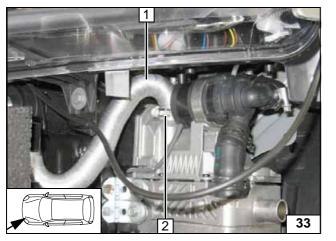
Install fuel line and metering-pump wiring harness so that they are protected against stone impact. Unless specified otherwise, always fasten using cable ties. Mount the fuel line and wiring harness with rub protection on sharp edges.

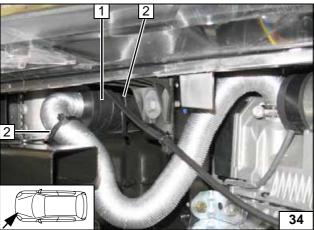
WARNING!

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









Combustion air

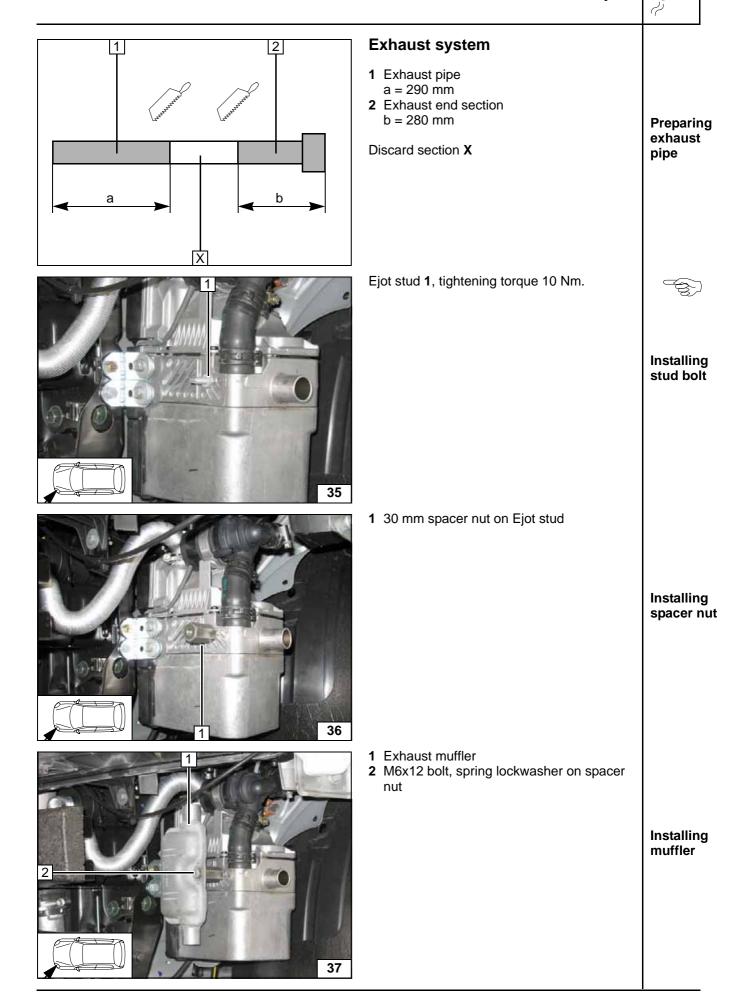
2 Cable tie [2x]

- Combustion-air intake pipe
 27 mm dia. hose clamp

Installing combustion air pipe 1 Combustion-air intake muffler Installing muffler

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Ensure sufficient distance to neighboring components.

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

Installing exhaust end section

42 mm dia. hole in wheel well trim at position **3**.

1 Hose clamp

38

1

2

39

1

40

2

3

- 2 Exhaust pipe
- 3 Red (rt) rubber isolator with groove

Installing exhaust end section

Align exhaust end section **2** flush on red rubber isolator **1**.

Installing exhaust end section

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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 unit components with anti-corrosion wax (Tectyl 100K, Order No. 111329).

- Connect the battery
- Fill and bleed the coolant circuit according to the vehicle manufacturer's specifications.
- Set the digital timer.
- Make settings according to the "Operating Instructions for End Customer"
- Check the proper operation of the additional heater, see the operating instructions/installation instructions.
- Attach the "Switch off additional heater before refueling" sticker to the left-hand B-pillar.

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Operating Instructions for End Customer

Please remove page and add to the vehicle operating instructions.

Note:

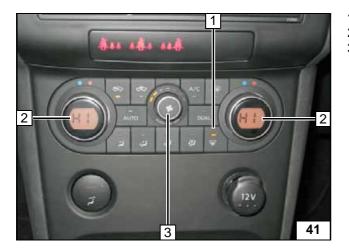
We recommend matching the heating time to the driving time. Heating time = driving time

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 unit will then only switch on the vehicle fan to ventilate the vehicle interior in the position Winter in the position Summer .

Before parking the vehicle, make the following settings:



- 1 Air outlet to windshield
- 2 Set temperature to "HI"
- 3 Set fan to level "2" or max. "3"

Automatic air-conditioning

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